



wwPDB X-ray Structure Validation Summary Report ⓘ

May 21, 2020 – 04:14 am BST

PDB ID : 4V8D
Title : Structure analysis of ribosomal decoding (cognate tRNA-tyr complex).
Authors : Jenner, L.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2011-12-07
Resolution : 3.00 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

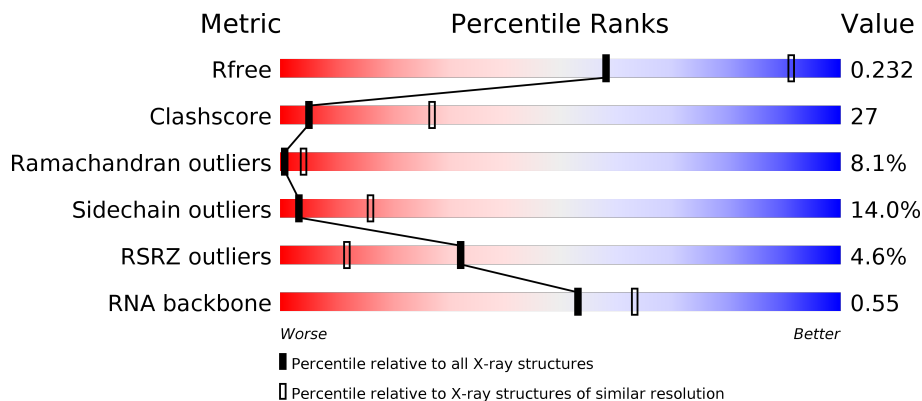
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)
RNA backbone	3102	1173 (3.30-2.70)

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 on 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	AA	1506	
1	CA	1506	
2	AE	256	
2	CE	256	






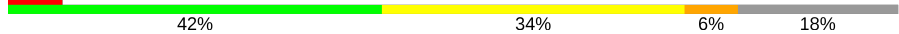
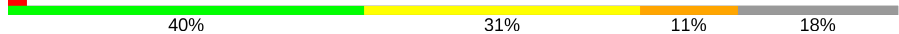
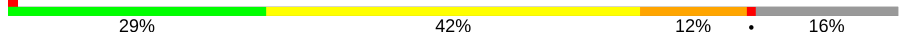
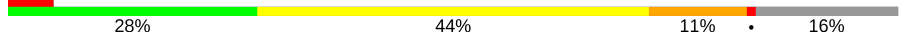
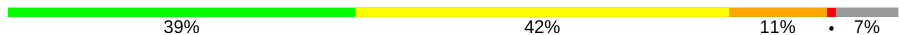
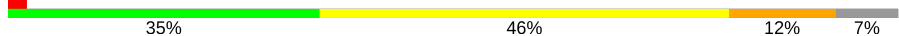
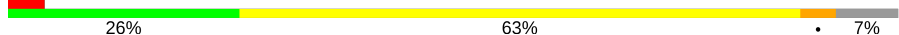
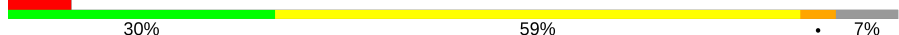






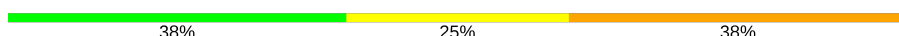





Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	AF	239	
3	CF	239	
4	AG	208	
4	CG	208	
5	AH	162	
5	CH	162	
6	AI	101	
6	CI	101	
7	AJ	156	
7	CJ	156	
8	AK	138	
8	CK	138	
9	AL	128	
9	CL	128	
10	AM	105	
10	CM	105	
11	AN	129	
11	CN	129	
12	AO	132	
12	CO	132	
13	AP	126	
13	CP	126	
14	AQ	61	
14	CQ	61	
15	AR	89	



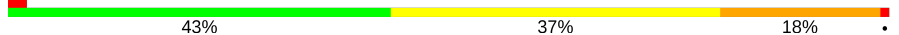



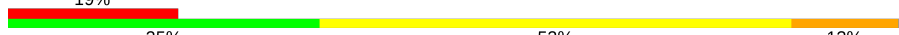
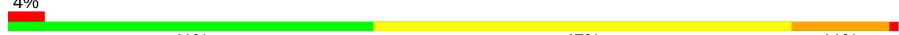



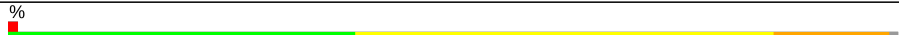


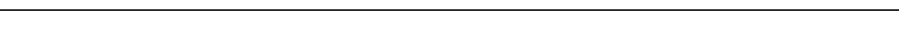
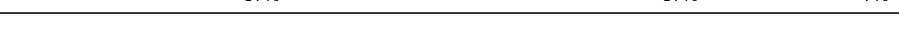

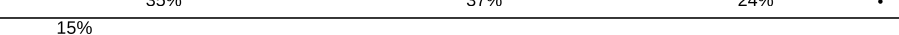
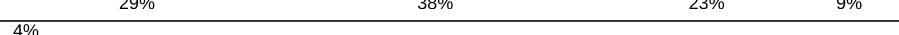

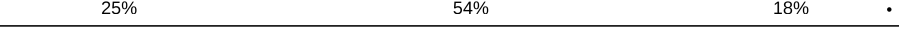




Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
15	CR	89	
16	AS	88	
16	CS	88	
17	AT	105	
17	CT	105	
18	AU	88	
18	CU	88	
19	AV	93	
19	CV	93	
20	AW	106	
20	CW	106	
21	AX	27	
21	CX	27	
22	AB	85	
22	AD	85	
22	CB	85	
22	CD	85	
23	AC	77	
23	CC	77	
24	A1	16	
24	C1	16	
25	BA	2912	
25	DA	2912	
26	BB	122	
26	DB	122	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
27	BD	276	
27	DD	276	
28	BE	206	
28	DE	206	
29	BF	210	
29	DF	210	
30	BG	182	
30	DG	182	
31	BH	180	
31	DH	180	
32	BK	148	
32	DK	148	
33	BM	140	
33	DM	140	
34	BN	122	
34	DN	122	
35	BO	150	
35	DO	150	
36	BP	141	
36	DP	141	
37	B0	118	
37	D0	118	
38	BQ	112	
38	DQ	112	
39	BR	146	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
39	DR	146	
40	B1	118	
40	D1	118	
41	B2	101	
41	D2	101	
42	BS	113	
42	DS	113	
43	BT	96	
43	DT	96	
44	BU	110	
44	DU	110	
45	BV	206	
45	DV	206	
46	B3	85	
46	D3	85	
47	BZ	98	
47	DZ	98	
48	BW	72	
48	DW	72	
49	BX	60	
49	DX	60	
50	B4	71	
50	D4	71	
51	B5	60	
51	D5	60	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
52	B6	54	
52	D6	54	
53	B7	49	
53	D7	49	
54	B8	65	
54	D8	65	

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
55	MG	AA	1613	-	-	-	X
55	MG	AA	1643	-	-	-	X
55	MG	AA	1666	-	-	-	X
55	MG	AA	1683	-	-	-	X
55	MG	AA	1726	-	-	-	X
55	MG	AA	1728	-	-	-	X
55	MG	AA	1736	-	-	-	X
55	MG	AA	1750	-	-	-	X
55	MG	AA	1758	-	-	-	X
55	MG	AA	1768	-	-	-	X
55	MG	AA	1772	-	-	-	X
55	MG	AA	1775	-	-	-	X
55	MG	AA	1785	-	-	-	X
55	MG	AA	1791	-	-	-	X
55	MG	AA	1800	-	-	-	X
55	MG	AA	1804	-	-	-	X
55	MG	AA	1805	-	-	-	X
55	MG	AA	1806	-	-	-	X
55	MG	AA	1809	-	-	-	X
55	MG	AA	1815	-	-	-	X
55	MG	AA	1818	-	-	-	X
55	MG	AC	107	-	-	-	X
55	MG	BA	3041	-	-	-	X
55	MG	BA	3069	-	-	-	X
55	MG	BA	3078	-	-	-	X
55	MG	BA	3100	-	-	-	X
55	MG	BA	3122	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	BA	3137	-	-	-	X
55	MG	BA	3155	-	-	-	X
55	MG	BA	3171	-	-	-	X
55	MG	BA	3189	-	-	-	X
55	MG	BA	3192	-	-	-	X
55	MG	BA	3195	-	-	-	X
55	MG	BA	3209	-	-	-	X
55	MG	BA	3222	-	-	-	X
55	MG	BA	3245	-	-	-	X
55	MG	BA	3263	-	-	-	X
55	MG	BA	3266	-	-	-	X
55	MG	BA	3274	-	-	-	X
55	MG	BA	3300	-	-	-	X
55	MG	BA	3309	-	-	-	X
55	MG	BA	3323	-	-	-	X
55	MG	BA	3324	-	-	-	X
55	MG	BA	3333	-	-	-	X
55	MG	BA	3344	-	-	-	X
55	MG	BA	3353	-	-	-	X
55	MG	BA	3372	-	-	-	X
55	MG	BA	3373	-	-	-	X
55	MG	BA	3380	-	-	-	X
55	MG	BA	3382	-	-	-	X
55	MG	BA	3386	-	-	-	X
55	MG	BA	3391	-	-	-	X
55	MG	BA	3396	-	-	-	X
55	MG	BA	3406	-	-	-	X
55	MG	BA	3413	-	-	-	X
55	MG	BA	3421	-	-	-	X
55	MG	BA	3422	-	-	-	X
55	MG	BA	3426	-	-	-	X
55	MG	BA	3429	-	-	-	X
55	MG	BA	3433	-	-	-	X
55	MG	BA	3438	-	-	-	X
55	MG	BA	3440	-	-	-	X
55	MG	BA	3446	-	-	-	X
55	MG	BA	3451	-	-	-	X
55	MG	BA	3455	-	-	-	X
55	MG	BA	3456	-	-	-	X
55	MG	BA	3463	-	-	-	X
55	MG	BA	3472	-	-	-	X
55	MG	BA	3477	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	BA	3479	-	-	-	X
55	MG	BA	3487	-	-	-	X
55	MG	BA	3503	-	-	-	X
55	MG	BA	3504	-	-	-	X
55	MG	BA	3509	-	-	-	X
55	MG	BA	3510	-	-	-	X
55	MG	BA	3537	-	-	-	X
55	MG	BA	3540	-	-	-	X
55	MG	BA	3546	-	-	-	X
55	MG	BA	3550	-	-	-	X
55	MG	BB	203	-	-	-	X
55	MG	BB	208	-	-	-	X
55	MG	CA	1673	-	-	-	X
55	MG	CA	1678	-	-	-	X
55	MG	CA	1701	-	-	-	X
55	MG	CA	1722	-	-	-	X
55	MG	CA	1736	-	-	-	X
55	MG	CA	1740	-	-	-	X
55	MG	CA	1742	-	-	-	X
55	MG	CA	1759	-	-	-	X
55	MG	CA	1761	-	-	-	X
55	MG	CA	1762	-	-	-	X
55	MG	CA	1768	-	-	-	X
55	MG	CA	1773	-	-	-	X
55	MG	CA	1790	-	-	-	X
55	MG	CA	1804	-	-	-	X
55	MG	CA	1808	-	-	-	X
55	MG	CA	1812	-	-	-	X
55	MG	CA	1817	-	-	-	X
55	MG	CA	1819	-	-	-	X
55	MG	CB	103	-	-	-	X
55	MG	CK	201	-	-	-	X
55	MG	CR	101	-	-	-	X
55	MG	DA	3054	-	-	-	X
55	MG	DA	3085	-	-	-	X
55	MG	DA	3099	-	-	-	X
55	MG	DA	3100	-	-	-	X
55	MG	DA	3120	-	-	-	X
55	MG	DA	3172	-	-	-	X
55	MG	DA	3176	-	-	-	X
55	MG	DA	3207	-	-	-	X
55	MG	DA	3221	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	DA	3225	-	-	-	X
55	MG	DA	3227	-	-	-	X
55	MG	DA	3228	-	-	-	X
55	MG	DA	3238	-	-	-	X
55	MG	DA	3262	-	-	-	X
55	MG	DA	3279	-	-	-	X
55	MG	DA	3291	-	-	-	X
55	MG	DA	3330	-	-	-	X
55	MG	DA	3336	-	-	-	X
55	MG	DA	3342	-	-	-	X
55	MG	DA	3358	-	-	-	X
55	MG	DA	3365	-	-	-	X
55	MG	DA	3372	-	-	-	X
55	MG	DA	3382	-	-	-	X
55	MG	DA	3399	-	-	-	X
55	MG	DA	3409	-	-	-	X
55	MG	DA	3423	-	-	-	X
55	MG	DA	3425	-	-	-	X
55	MG	DA	3446	-	-	-	X
55	MG	DB	210	-	-	-	X

2 Entry composition

There are 56 unique types of molecules in this entry. The entry contains 299676 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 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1502	Total 32284	C 14370	N 5982	O 10431	P 1501	0	0	0
1	CA	1502	Total 32287	C 14370	N 5982	O 10433	P 1502	0	0	0

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AE	237	Total 1924	C 1228	N 344	O 347	S 5	0	0	0
2	CE	237	Total 1924	C 1228	N 344	O 347	S 5	0	0	0

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AF	205	Total 1605	C 1011	N 313	O 280	S 1	0	0	0
3	CF	206	Total 1612	C 1016	N 314	O 281	S 1	0	0	0

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AG	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0
4	CG	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
5	CH	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CI	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CJ	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CK	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AL	127	Total	C	N	O	0	0	0
			1010	639	197	174			
9	CL	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AM	99	Total	C	N	O	S	0	0	0
			801	504	157	139	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	CM	99	801	504	157	139	1	0	0	0

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	AN	119	885	549	168	165	3	0	0	0
11	CN	119	885	549	168	165	3	0	0	0

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	AO	125	975	614	196	164	1	0	0	0
12	CO	125	975	614	196	164	1	0	0	0

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AP	116	928	574	191	161	2	0	0	0
13	CP	117	933	577	192	162	2	0	0	0

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	AQ	58	476	303	99	70	4	0	0	0
14	CQ	58	476	303	99	70	4	0	0	0

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	AR	88	734	459	147	126	2	0	0	0
15	CR	88	734	459	147	126	2	0	0	0

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			
16	CS	84	Total	C	N	O	S	0	0	0
			705	446	140	118	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			
17	CT	100	Total	C	N	O	S	0	0	0
			834	534	155	143	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AU	72	Total	C	N	O	0	0	0
			591	376	117	98			
18	CU	72	Total	C	N	O	0	0	0
			591	376	117	98			

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AV	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			
19	CV	78	Total	C	N	O	S	0	0	0
			624	398	115	109	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CW	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AX	25	Total	C	N	O	0	0	0
			217	134	52	31			
21	CX	25	Total	C	N	O	0	0	0
			217	134	52	31			

- Molecule 22 is a RNA chain called TRNA-TYR.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
22	AB	85	Total	C	N	O	P	S	0	0	0
			1814	813	323	592	85	1			
22	AD	85	Total	C	N	O	P	S	0	0	0
			1814	813	323	592	85	1			
22	CB	85	Total	C	N	O	P	S	0	0	0
			1814	813	323	592	85	1			
22	CD	85	Total	C	N	O	P	S	0	0	0
			1814	813	323	592	85	1			

- Molecule 23 is a RNA chain called TRNA-FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
23	CC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AC	18	C	U	CONFLICT	GB AP012306.1
CC	18	C	U	CONFLICT	GB AP012306.1

- Molecule 24 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	A1	16	Total	C	N	O	P	0	0	0
			346	156	69	105	16			
24	C1	16	Total	C	N	O	P	0	0	0
			346	156	69	105	16			

- Molecule 25 is a RNA chain called RNA (2912-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2912	Total	C	N	O	P	0	0	0
			62707	27911	11722	20163	2911			
25	DA	2907	Total	C	N	O	P	0	0	0
			62607	27866	11712	20123	2906			

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	161	U	-	INSERTION	GB AP008226.1
BA	654A	A	G	CONFLICT	GB AP008226.1
BA	654E	C	G	CONFLICT	GB AP008226.1
BA	654P	G	C	CONFLICT	GB AP008226.1
BA	654T	A	C	CONFLICT	GB AP008226.1
BA	1058	U	G	CONFLICT	GB AP008226.1
BA	1080	A	C	CONFLICT	GB AP008226.1
DA	166	U	-	INSERTION	GB AP008226.1
DA	654A	A	G	CONFLICT	GB AP008226.1
DA	654E	C	G	CONFLICT	GB AP008226.1
DA	654P	G	C	CONFLICT	GB AP008226.1
DA	654T	A	C	CONFLICT	GB AP008226.1
DA	1058	U	G	CONFLICT	GB AP008226.1
DA	1080	A	C	CONFLICT	GB AP008226.1

- Molecule 26 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			
26	DB	122	Total	C	N	O	P	0	0	0
			2617	1166	486	844	121			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			
27	DD	272	Total	C	N	O	S	0	0	0
			2115	1335	420	357	3			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			
28	DE	205	Total	C	N	O	S	0	0	0
			1568	991	300	271	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	202	Total	C	N	O	S	0	0	0
			1585	1011	297	275	2			
29	DF	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			
30	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			
31	DH	170	Total	C	N	O	S	0	0	0
			1307	829	245	232	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			
32	DK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

- Molecule 33 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	DM	138	Total	C	N	O	S	0	0	0
			1104	712	206	182	4			

- Molecule 34 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
34	DN	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 35 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			
35	DO	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			

- Molecule 36 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
36	DP	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 37 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	B0	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
37	D0	117	Total	C	N	O		0	0	0
			960	599	202	159				

- Molecule 38 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BQ	111	Total	C	N	O	0	0	0
			882	556	176	150			
38	DQ	111	Total	C	N	O	0	0	0
			882	556	176	150			

- Molecule 39 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
39	BR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			
39	DR	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

- Molecule 40 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
40	B1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
40	D1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 41 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
41	B2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
41	D2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 42 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
42	BS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			
42	DS	113	Total	C	N	O	S	0	0	0
			900	566	177	155	2			

- Molecule 43 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
43	BT	92	Total	C	N	O	0	0	0
			725	471	131	123			
43	DT	92	Total	C	N	O	0	0	0
			725	471	131	123			

- Molecule 44 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			
44	DU	102	Total	C	N	O	S	0	0	0
			785	505	150	125	5			

- Molecule 45 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BV	175	Total	C	N	O	S	0	0	0
			1397	892	251	251	3			
45	DV	179	Total	C	N	O	S	0	0	0
			1428	911	255	259	3			

- Molecule 46 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B3	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
46	D3	77	Total	C	N	O	S	0	0	0
			613	379	129	104	1			

- Molecule 47 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			
47	DZ	97	Total	C	N	O	S	0	0	0
			763	481	150	131	1			

- Molecule 48 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BW	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			
48	DW	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

- Molecule 49 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BX	59	Total	C	N	O	0	0	0
			469	298	90	81			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
49	DX	59	469	298	90	81	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
50	B4	66	533	335	96	97	5	0	0	0
50	D4	63	515	326	93	91	5	0	0	0

- Molecule 51 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	B5	59	459	288	90	76	5	0	0	0
51	D5	59	459	288	90	76	5	0	0	0

- Molecule 52 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
52	B6	45	389	241	79	65	4	0	0	0
52	D6	45	389	241	79	65	4	0	0	0

- Molecule 53 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
53	B7	45	391	240	97	52	2	0	0	0
53	D7	45	391	240	97	52	2	0	0	0

- Molecule 54 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
54	B8	60	480	306	98	74	2	0	0	0
54	D8	60	480	306	98	74	2	0	0	0

- Molecule 55 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	BA	568	Total Mg 568 568	2	0
55	CA	219	Total Mg 219 219	0	0
55	AB	4	Total Mg 4 4	0	0
55	BE	3	Total Mg 3 3	0	0
55	B1	2	Total Mg 2 2	0	0
55	AN	1	Total Mg 1 1	0	0
55	CR	1	Total Mg 1 1	0	0
55	AS	1	Total Mg 1 1	0	0
55	B5	1	Total Mg 1 1	0	0
55	BB	18	Total Mg 18 18	0	0
55	DO	1	Total Mg 1 1	0	0
55	D8	1	Total Mg 1 1	0	0
55	D3	1	Total Mg 1 1	0	0
55	BF	3	Total Mg 3 3	0	0
55	B2	1	Total Mg 1 1	0	0
55	AA	220	Total Mg 220 220	1	0
55	D7	1	Total Mg 1 1	0	0
55	AR	1	Total Mg 1 1	0	0
55	B6	1	Total Mg 1 1	0	0
55	CG	2	Total Mg 2 2	0	0
55	A1	1	Total Mg 1 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	AD	3	Total Mg 3 3	0	0
55	DD	3	Total Mg 3 3	0	0
55	D0	1	Total Mg 1 1	0	0
55	CC	9	Total Mg 9 9	0	0
55	DE	1	Total Mg 1 1	0	0
55	B3	3	Total Mg 3 3	0	0
55	DA	488	Total Mg 488 488	0	0
55	D5	2	Total Mg 2 2	0	0
55	B7	1	Total Mg 1 1	0	0
55	AG	2	Total Mg 2 2	0	0
55	BO	2	Total Mg 2 2	0	0
55	D1	1	Total Mg 1 1	0	0
55	CB	4	Total Mg 4 4	0	0
55	AC	8	Total Mg 8 8	0	0
55	CD	1	Total Mg 1 1	0	0
55	BD	1	Total Mg 1 1	0	0
55	B0	1	Total Mg 1 1	0	0
55	BW	1	Total Mg 1 1	0	0
55	CK	1	Total Mg 1 1	0	0
55	DB	20	Total Mg 20 20	0	0

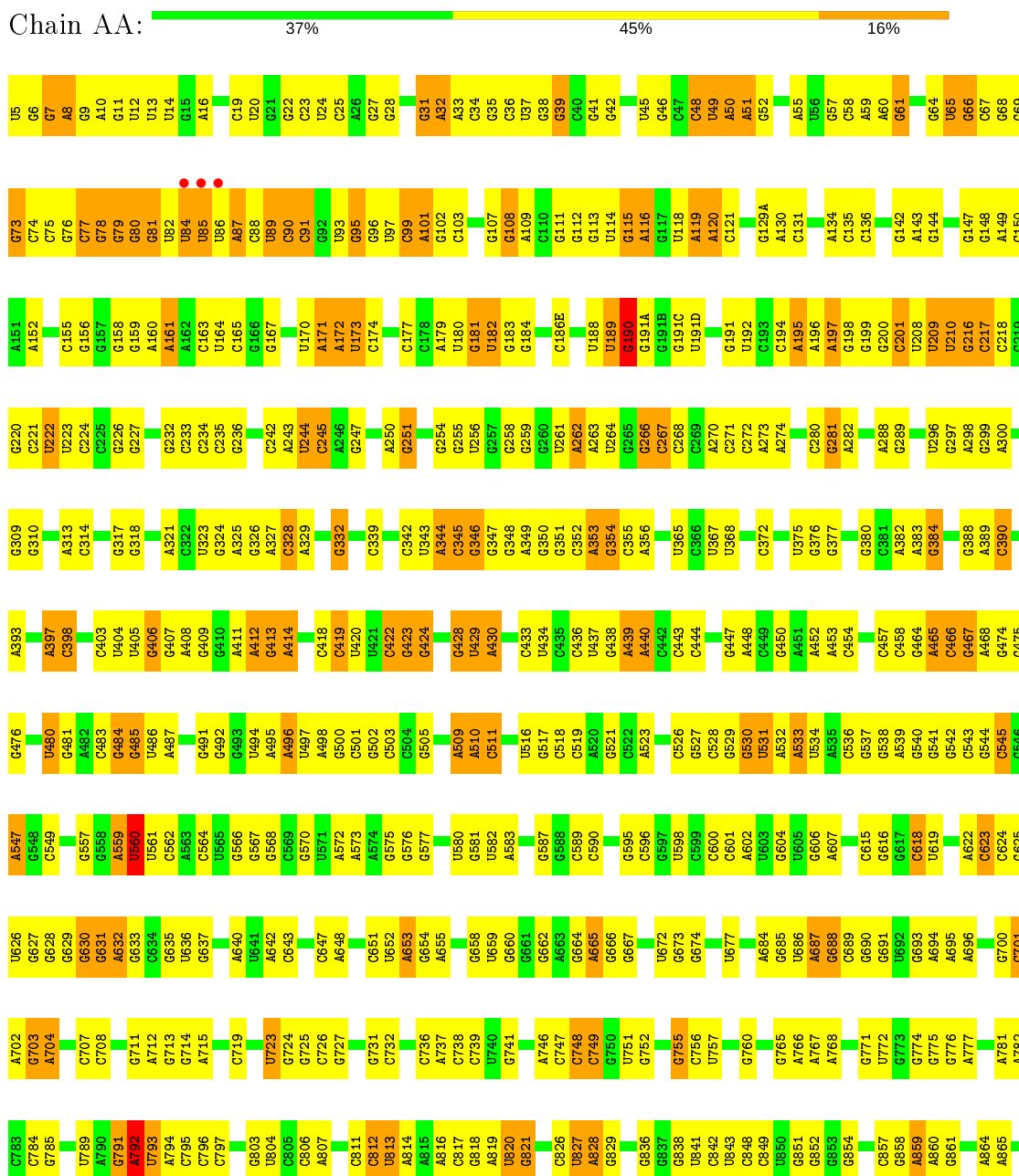
- Molecule 56 is ZINC ION (three-letter code: ZN) (formula: Zn).

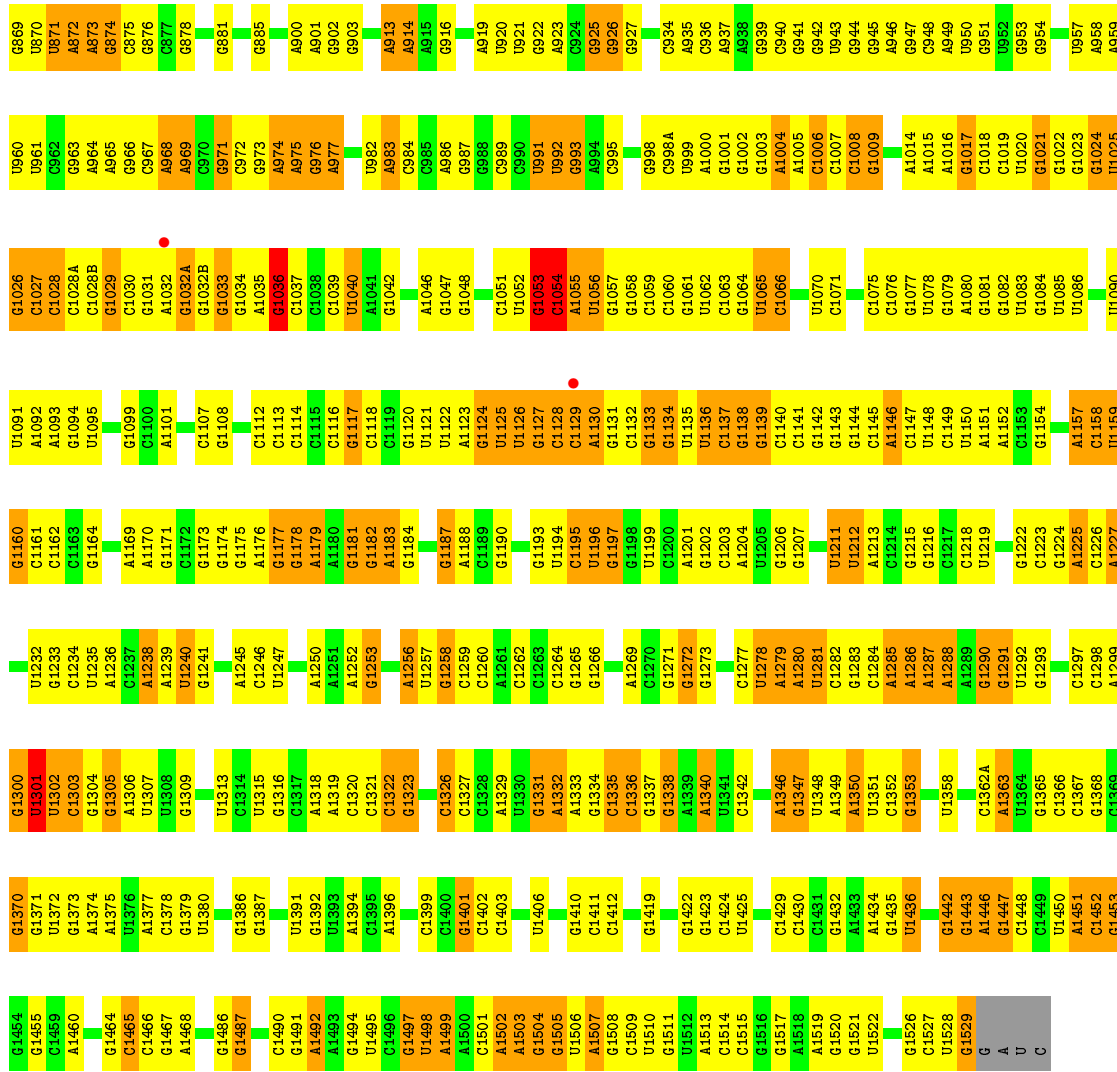
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	AG	1	Total 1	Zn 1	0	0
56	AQ	1	Total 1	Zn 1	0	0
56	CQ	1	Total 1	Zn 1	0	0
56	CG	1	Total 1	Zn 1	0	0

3 Residue-property plots

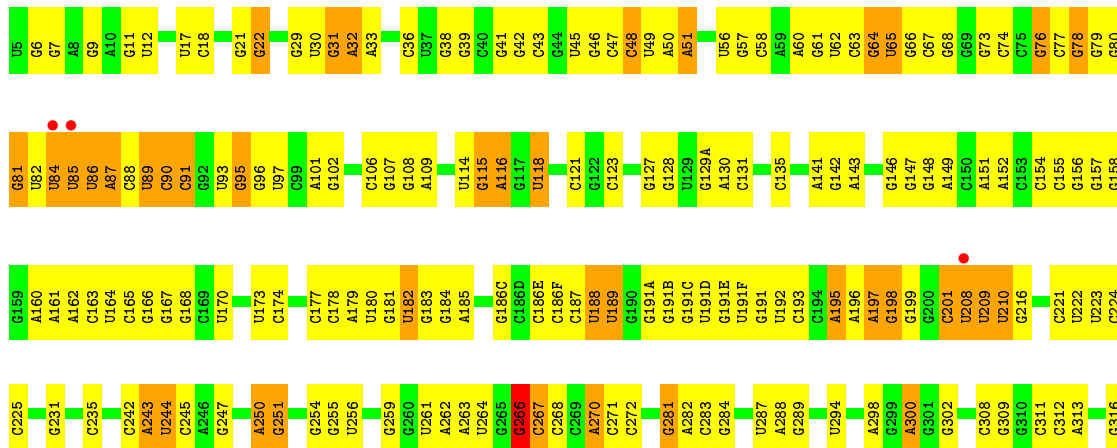
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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: 16S ribosomal RNA

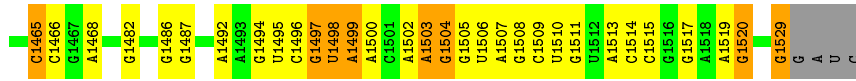




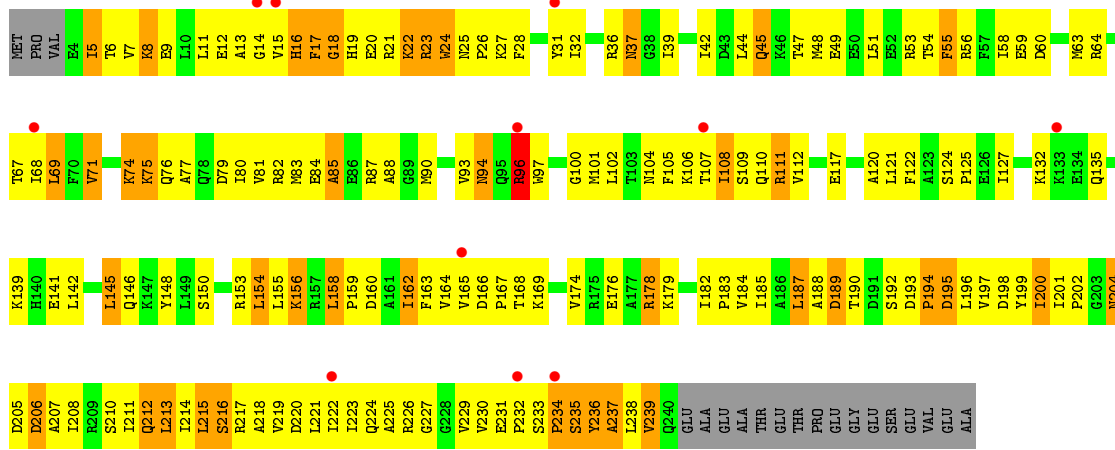
● Molecule 1: 16S ribosomal RNA



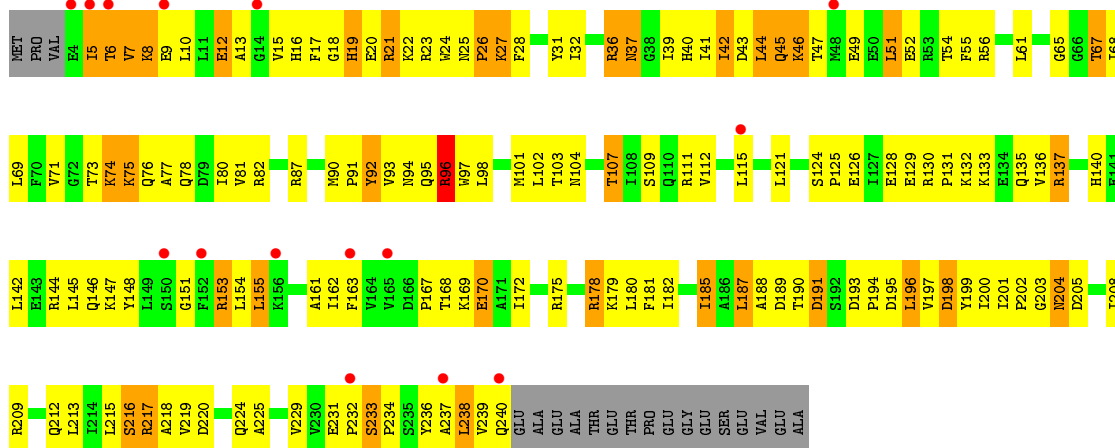
G1368	G1369	G1370	G1371	G1372	G1373	G1374	G1375	G1376	G1377	G1378	G1379	G1387	G1388	G1389	G1390	G1391	G1392	G1393	G1397	A1398	A1399	A1400	A1401	A1402	A1403	A1404	A1405	G1410	G1411	G1412	G1415	G1416	G1417	G1418	G1419	G1422	G1423	G1432	G1433	G1435	G1436	G1437	G1442	G1443	G1444	G1447	G1448	G1449	G1450	A1451	G1452	G1453	G1454																																																																																																																																																																																																												
A1229	C1230	G1233	A1238	A1239	U1240	U1241	A1176	G1177	G1178	A1179	A1180	G1181	G1182	A1183	A1184	G1185	G1186	G1187	G1190	A1191	G1192	G1193	U1194	G1195	U1196	G1197	G1198	U1199	C1200	A1201	G1202	G1203	G1204	U1205	G1206	G1207	G1208	A1209	U1211	U1212	G1213	G1214	A1215	A1216	A1217	A1218	A1219	G1220	G1221	G1222	G1223	G1224	C1287	G1288	G1289	G1300																																																																																																																																																																																																									
A1034	A1035	G1036	A1037	C1038	U1039	U1040	A1041	G1042	U1043	A1044	A1045	U1046	G1047	U1048	U1049	A1050	G1051	U1052	G1053	A1054	U1055	U1056	G1057	G1058	C1059	U1060	G1061	U1062	G1063	U1064	U1065	U1066	A1067	G1068	C1069	U1070	C1071	G1072	U1073	G1074	U1075	G1076	G1077	U1078	G1079	A1080	U1081	U1084	U1085	U1086	U1091	A1092	U1093	G1094	U1095	U1096	C1097																																																																																																																																																																																																								
G903	G904	U905	G906	A909	C910	A913	G829	G830	A914	A915	U833	U834	U835	A918	A919	U920	U921	A922	U843	U848	C849	U850	G851	G852	G853	G854	G855	U856	A936	C937	A938	C857	G858	A859	A860	G861	G862	U863	A946	C948	A949	U950	G951	U952	G953	G954	U955	U956	U957	A958	A959	U960	U961	C962	U963	A964	A965	U966	G967	G968	A969	A990	A991	A998	G902																																																																																																																																																																																																
G637	G638	G639	A640	U646	G649	G650	G651	U652	A653	U654	A655	G662	A663	G664	A665	G666	G667	A675	U677	G683	A684	G685	U686	G687	A688	G689	U690	G691	A696	U697	G698	A699	G703	U705	A706	C707	C708	G711	A712	G713	C719	U723	G724	G725	C726	G629	G630	G631	A632	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																																																																																																																		
A819	U820	G821	C824	U827	A828	G829	G830	U833	U834	U835	U836	G837	G838	U841	C842	U843	U848	C849	U850	G851	G852	G853	G854	G855	U856	A859	A860	G861	G862	U863	A864	G869	U870	U871	A872	A873	C874	G878	U879	U880	U881	U882	U883	U884	U885	G886	G887	G888	G889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073	U1074	U1075	U1076	U1077	U1078	U1079	U1080	U1081	U1082	U1083	U1084	U1085	U1086	U1087	U1088	U1089	U1090	U1091	U1092	U1093	U1094	U1095	U1096	U1097
A321	C322	U323	G324	A325	G326	A327	C328	A329	C330	G331	G332	G333	C336	C337	A338	C339	U340	A344	G345	G346	G347	G350	G351	C352	A353	G354	U359	A360	G361	G362	A363	A364	U365	C366	U367	C372	A373	U375	G376	G377	G378	C379	G380	C381	A382	A383	G384	A389	C390	G392																																																																																																																																																																																																															
A393	G394	C395	G396	A397	C398	C399	C400	U404	U405	G406	G407	A408	G409	G410	A411	A412	G413	A414	A415	G416	U420	U421	C422	G423	G424	G425	G426	U427	G428	U429	A430	A431	U434	C435	C436	U437	A440	C442	C443	C444	A448	C449	A452	A453	C454	A455	A456	C457	C458	G464	A465	G466																																																																																																																																																																																																													
G467	A468	G474	G475	G476	G477	A478	G484	U485	U486	A495	A496	U497	A498	G500	A411	A412	G413	A414	A415	G416	A509	A510	C511	U512	U516	G517	C518	C519	A523	G524	C525	C526	G527	C528	G529	U530	U531	A532	A533	U534	A535	A536	A621	A622	G623	G624	G625	U626	G629	G630	G631	A632	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	A728	A729	G731	C735	A736	A737	C738	U740	A741	A742	G662	A663	G664	A665	G666	G667	A675	U677	G683	A684	G685	U686	G687	A688	G689	U690	G691	A696	U697	G698	A699	G703	U705	A706	C707	C708	G711	A712	G713	C719	U723	G724	G725	C726	G629	G630	G631	A632	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																																																																																																																			



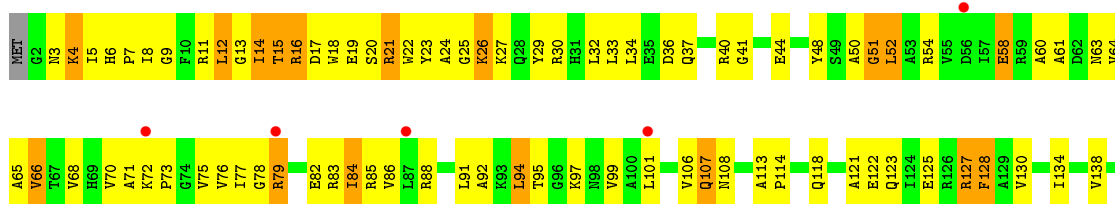
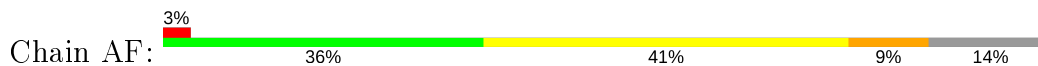
• Molecule 2: 30S RIBOSOMAL PROTEIN S2

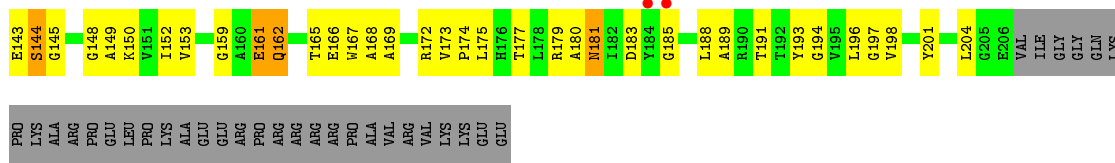


• Molecule 2: 30S RIBOSOMAL PROTEIN S2

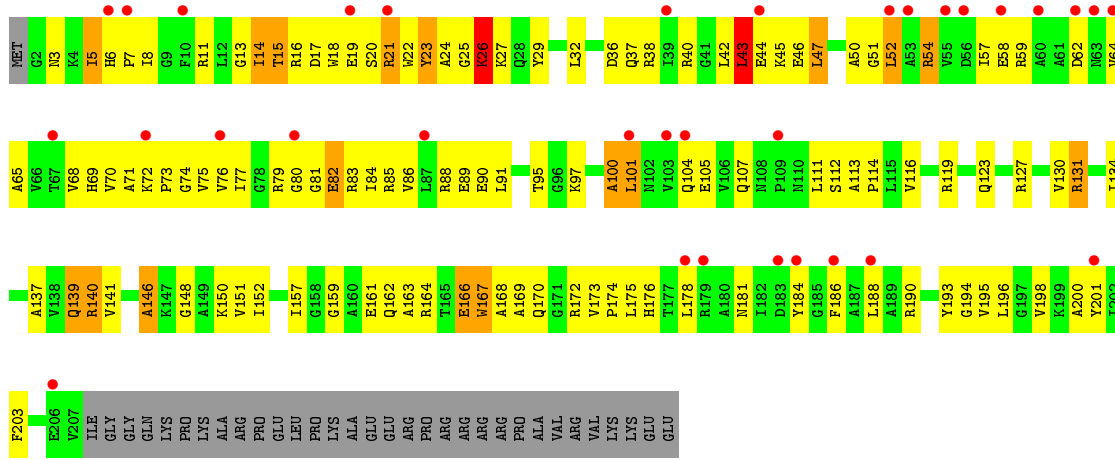


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

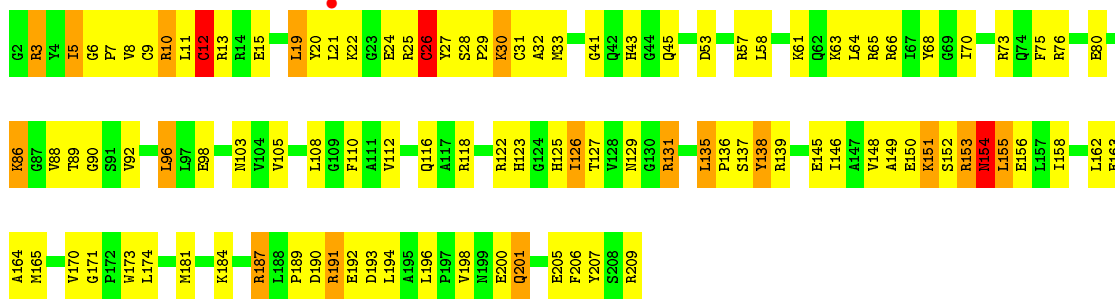




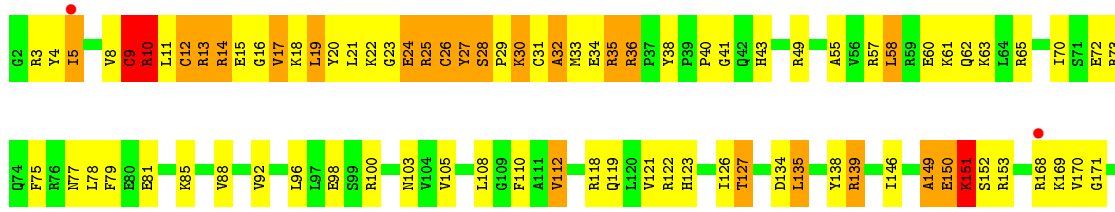
● Molecule 3: 30S RIBOSOMAL PROTEIN S3



● Molecule 4: 30S RIBOSOMAL PROTEIN S4

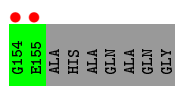


● Molecule 4: 30S RIBOSOMAL PROTEIN S4

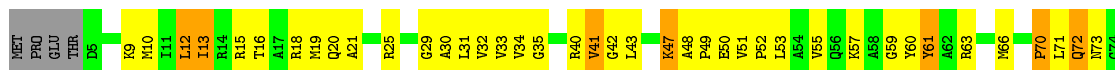




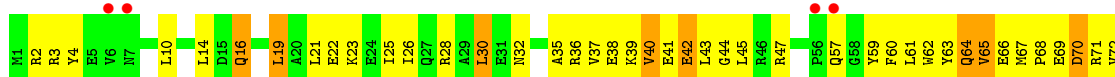
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



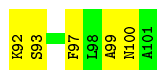
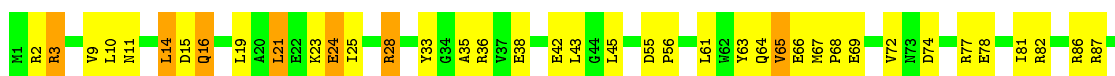
• Molecule 5: 30S RIBOSOMAL PROTEIN S5



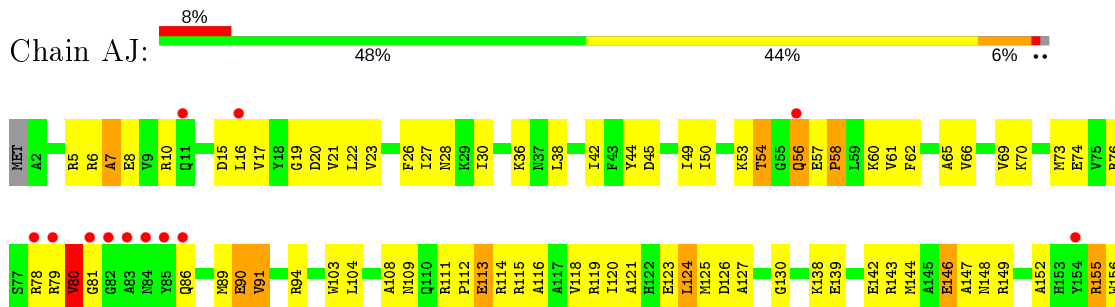
• Molecule 6: 30S RIBOSOMAL PROTEIN S6



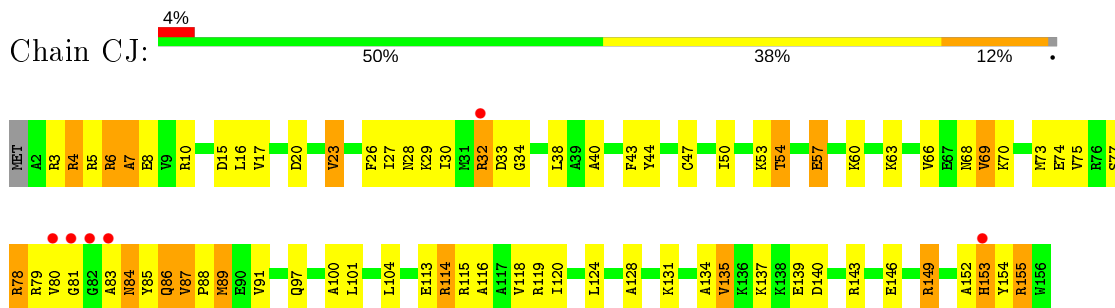
• Molecule 6: 30S RIBOSOMAL PROTEIN S6



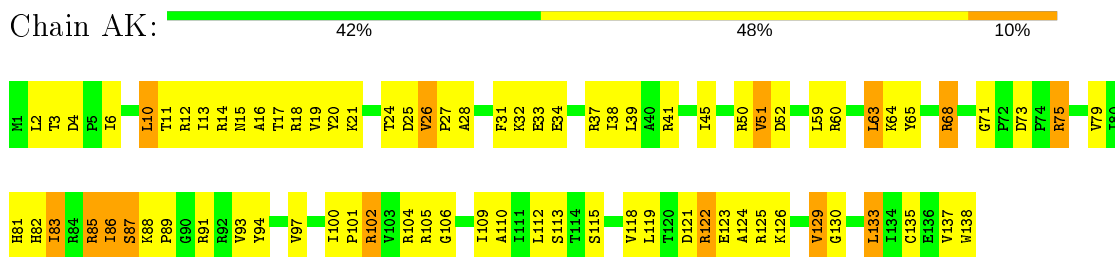
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



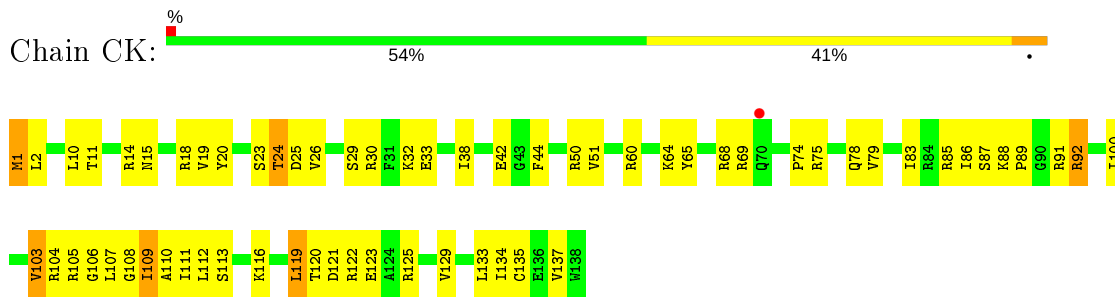
• Molecule 7: 30S RIBOSOMAL PROTEIN S7



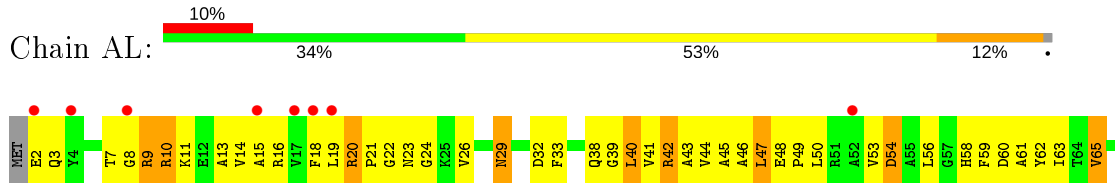
• Molecule 8: 30S RIBOSOMAL PROTEIN S8

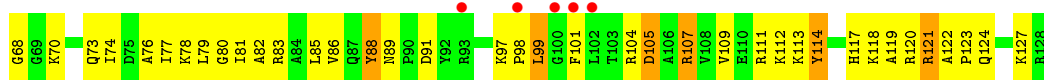


• Molecule 8: 30S RIBOSOMAL PROTEIN S8

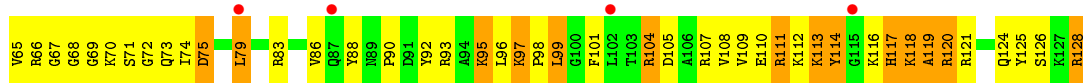
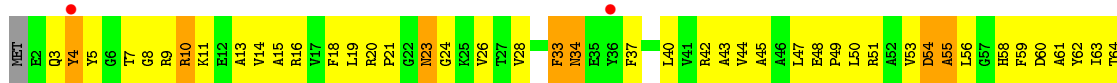


• Molecule 9: 30S RIBOSOMAL PROTEIN S9

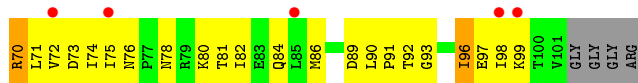
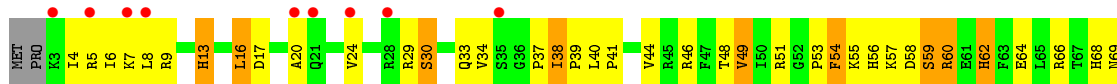




• Molecule 9: 30S RIBOSOMAL PROTEIN S9



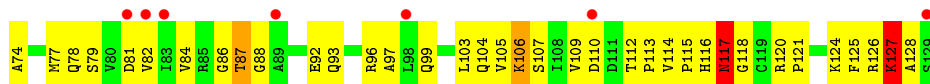
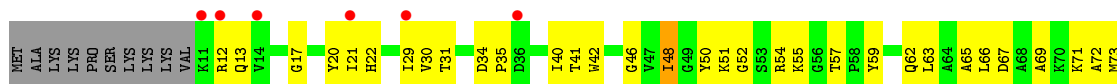
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 10: 30S RIBOSOMAL PROTEIN S10

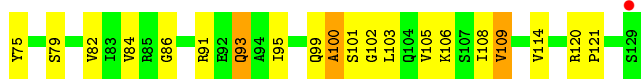


• Molecule 11: 30S RIBOSOMAL PROTEIN S11



• Molecule 11: 30S RIBOSOMAL PROTEIN S11





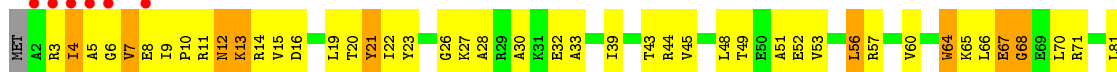
● Molecule 12: 30S RIBOSOMAL PROTEIN S12



● Molecule 12: 30S RIBOSOMAL PROTEIN S12




● Molecule 13: 30S RIBOSOMAL PROTEIN S13

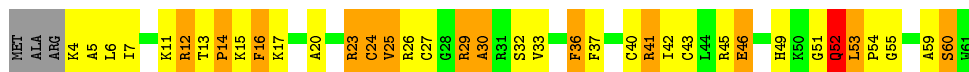


● Molecule 13: 30S RIBOSOMAL PROTEIN S13



● Molecule 14: 30S RIBOSOMAL PROTEIN S14

Chain AQ: 



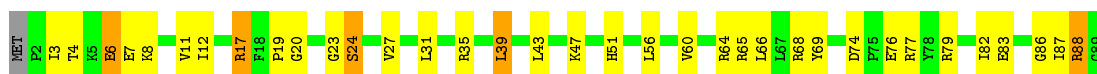
- Molecule 14: 30S RIBOSOMAL PROTEIN S14

Chain CQ: 



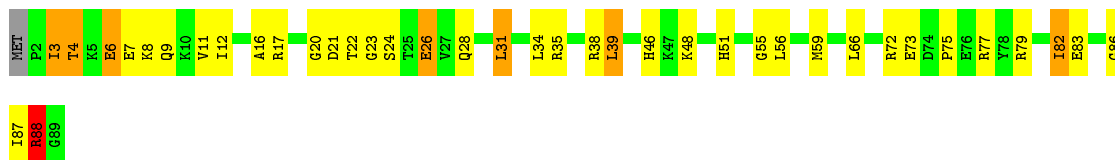
- Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain AR: 



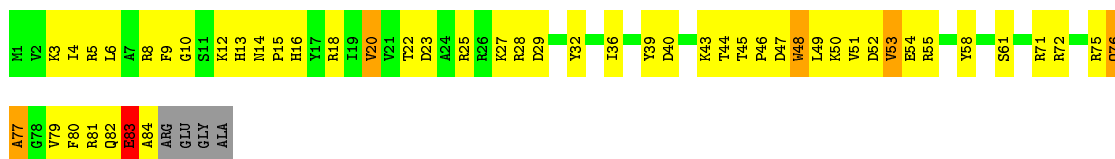
- Molecule 15: 30S RIBOSOMAL PROTEIN S15

Chain CR: 



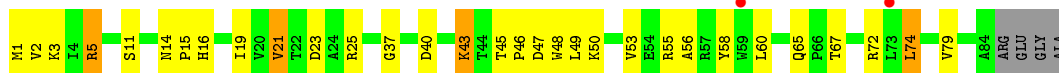
- Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain AS: 



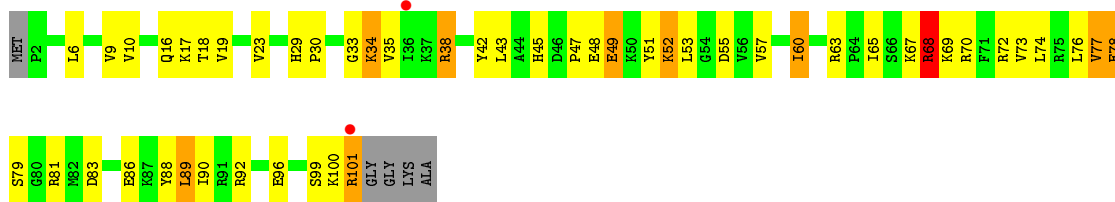
- Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CS: 

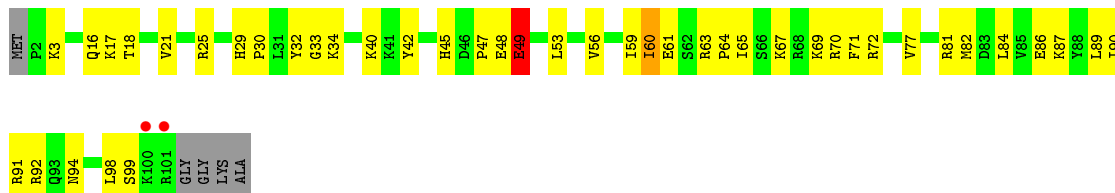


- Molecule 17: 30S RIBOSOMAL PROTEIN S17

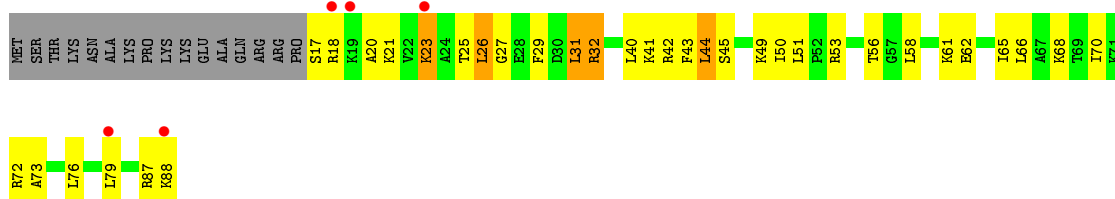
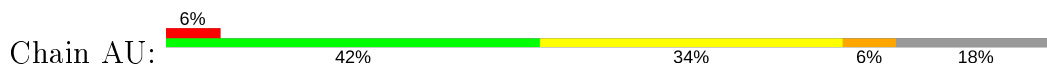
Chain AT: 



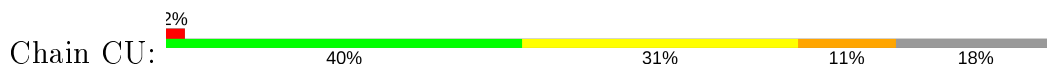
● Molecule 17: 30S RIBOSOMAL PROTEIN S17



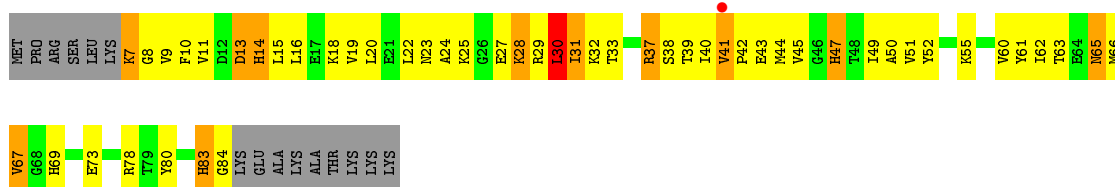
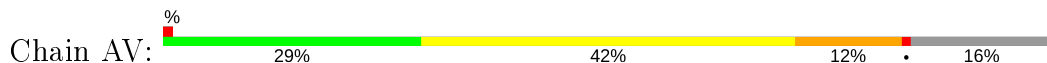
● Molecule 18: 30S RIBOSOMAL PROTEIN S18



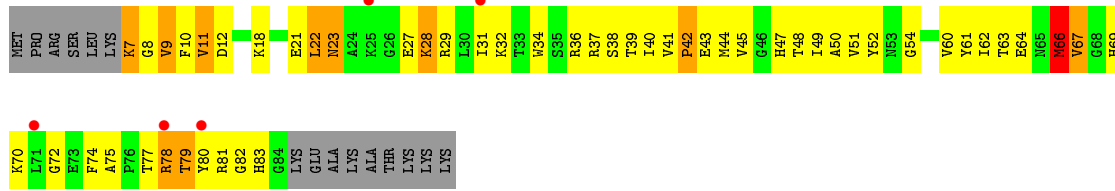
● Molecule 18: 30S RIBOSOMAL PROTEIN S18



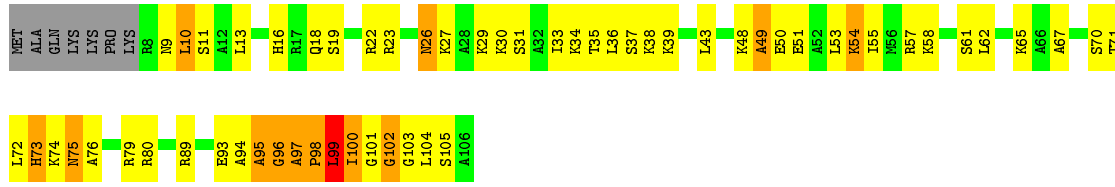
● Molecule 19: 30S RIBOSOMAL PROTEIN S19



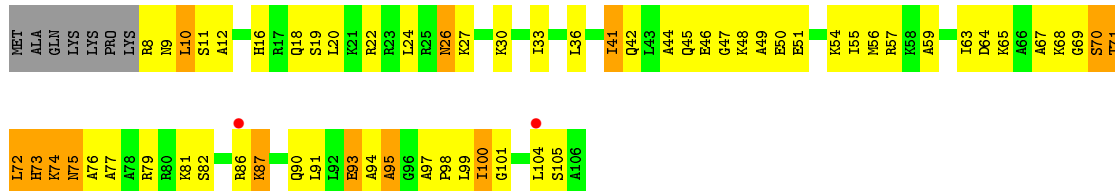
● Molecule 19: 30S RIBOSOMAL PROTEIN S19



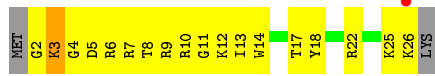
• Molecule 20: 30S RIBOSOMAL PROTEIN S20



• Molecule 20: 30S RIBOSOMAL PROTEIN S20



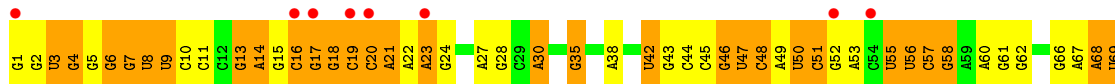
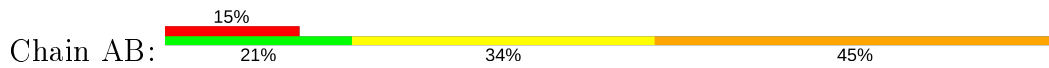
• Molecule 21: 30S RIBOSOMAL PROTEIN THX

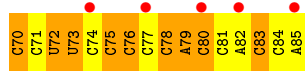


• Molecule 21: 30S RIBOSOMAL PROTEIN THX

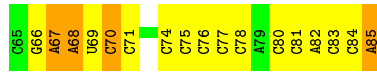
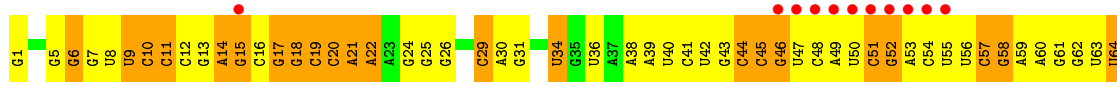
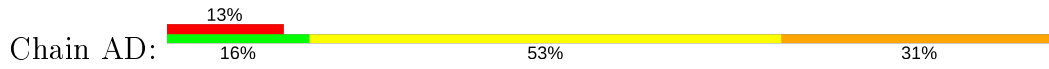


• Molecule 22: TRNA-TYR

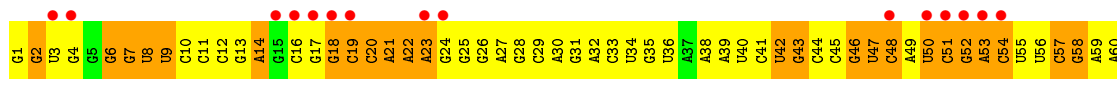
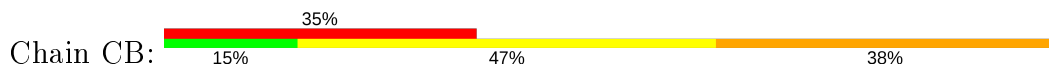




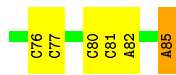
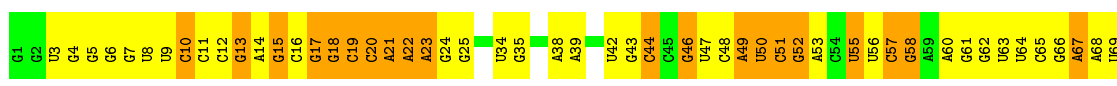
● Molecule 22: TRNA-TYR



● Molecule 22: TRNA-TYR



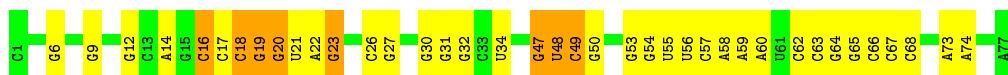
● Molecule 22: TRNA-TYR



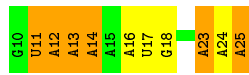
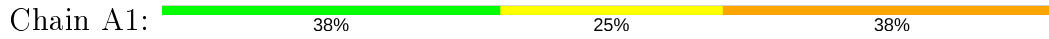
● Molecule 23: TRNA-FMET



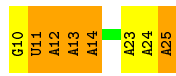
● Molecule 23: TRNA-FMET



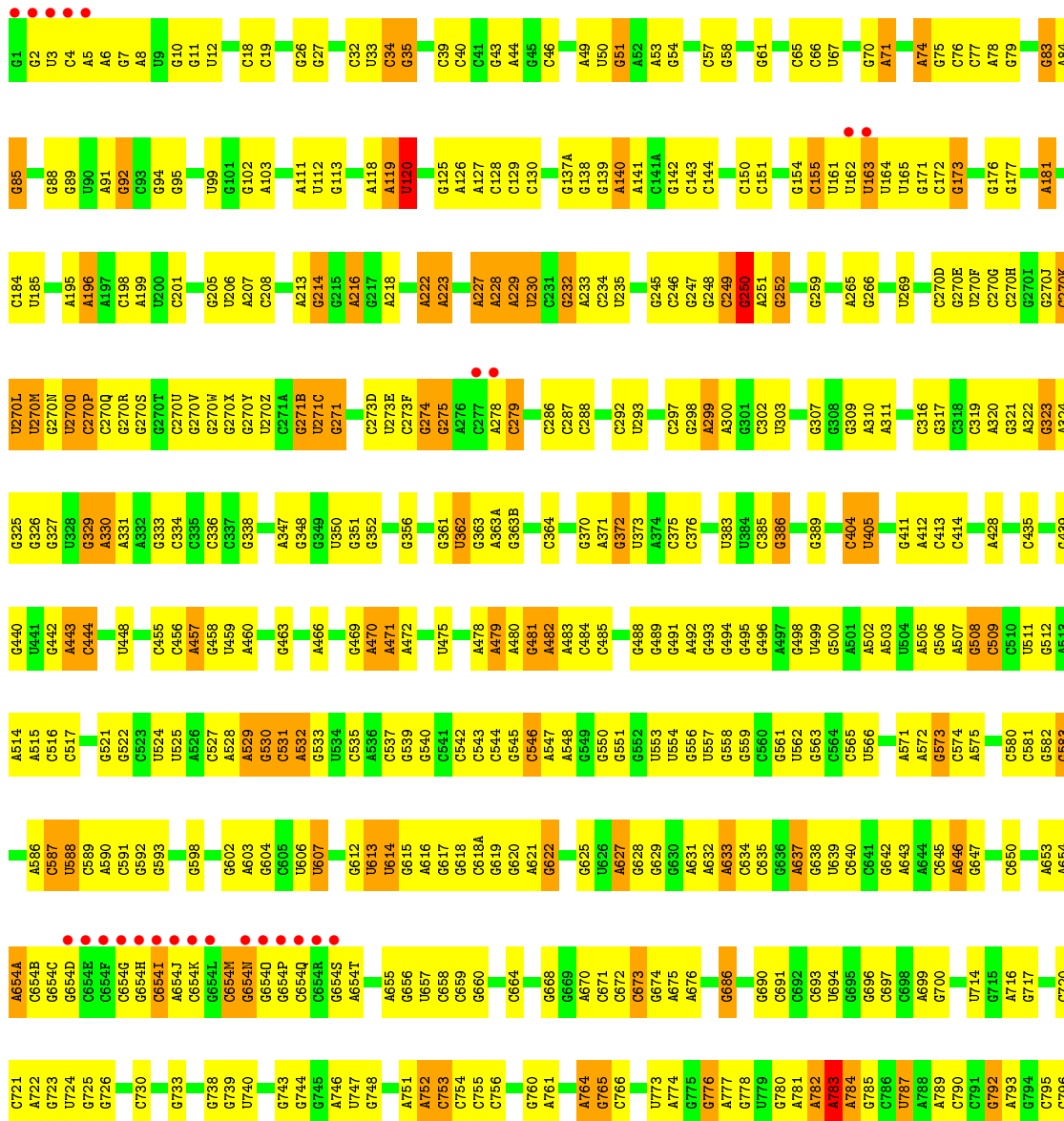
● Molecule 24: MRNA



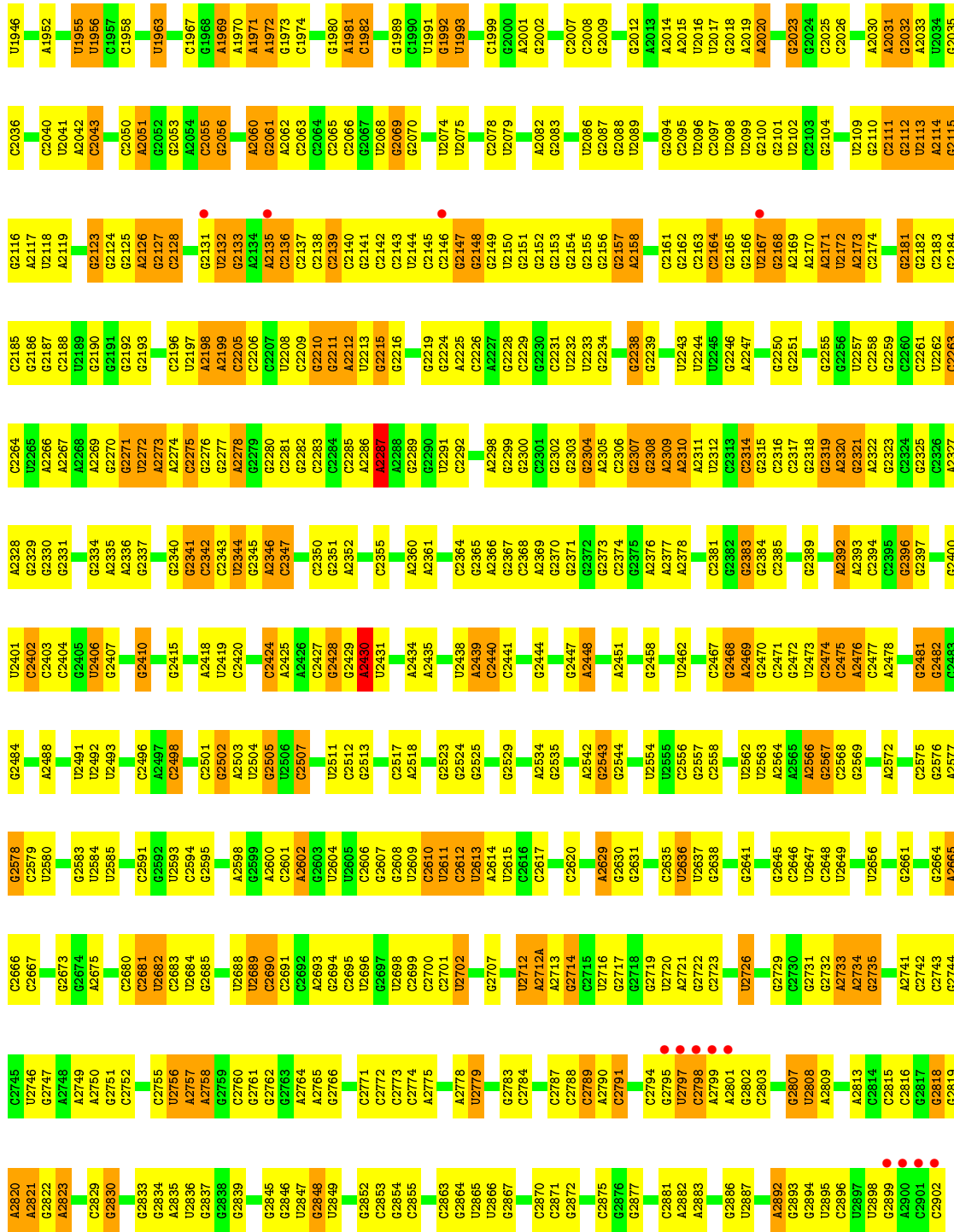
● Molecule 24: MRNA



● Molecule 25: RNA (2912-MER)

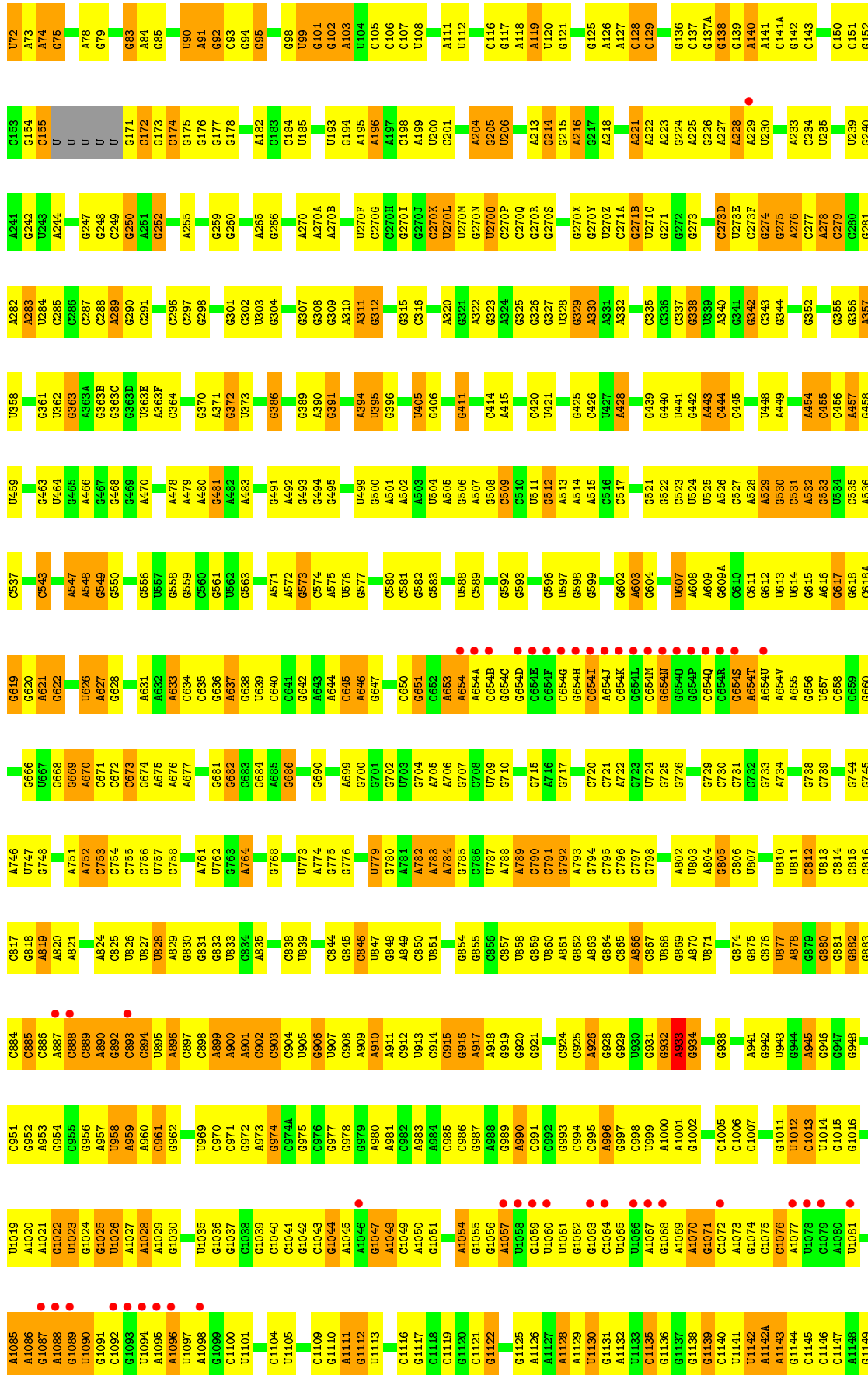


C1843	G1784	C1657	A1566	A1494	C1411	G1380	G1250	G1173	U1097	A1029	G956	A878	C797
A1847	G1776	C1658	A1567	A1495	A1412	A1331	G1251	A1174	C1100	U1033	A957	G879	A802
A1854	G1777	C1662	A1569	A1496	G1413	G1332	A1252	U1175	G1101	G1034	A958	G880	G805
G1858	A1773	A1667	A1570	A1498	G4416	U1340	G1256	A1177	C1102	G1042	A959	G881	G806
U1864	G1776	A1668	C1575	G1500	G4418	U1341	G1261	C1179	C1104	C1043	A960	G884	U807
G1869	G1777	A1669	U1576	C1505	A4419	G1348	A1262	C1180	U1105	G1044	C961	C885	U811
G1869	U1777	C1577	C1577	A1506	G4421	A1349	U1263	C1185	G1106	A1045	G966	C886	U811
G1870	U1778	A1578	U1578	A1507	G4422	U1352	U1264	C1186	G1107	A1046	C967	C887	C812
A1871	U1779	A1579	A1508	A1508	A4427	A1353	G1264	G1186	U1108	G1047	C968	C888	U813
A1872	A1780	A1580	C1509	A1509	A4428	A1354	A1265	G1187	C1109	A1048	U969	C889	C814
G1878	C1781	G1581	A1510	A1510	G4429	G1355	G1266	U1188	G1110	C1049	C970	A890	
A1884	A1782	U1582	A1511	A1511	C4430	A1356	A1269	A1189	A1111	A1050	C971	G892	C817
A1885	U1783	A1587	C1512	A1512	G4431	U1357	G1270	G1190	G1112	G1051	G972	C893	G818
C1886	A1784	A1587	C1513	A1513	G4433	A1358	G1271	G1191	U1113	C1052	G973	C894	A819
C1887	A1786	C1588	C1514	A1514	A4444	A1359	A1272	G1195	C1121	A1054	C974A	U895	A820
C1888	C1790	C1589	U1516	A1516	G4442	A1360	U1273	U1198	G1122	G1055	G975	C897	A821
C1893	A1791	U1517	C1518	C1518	G4443	C1363	A1278	U1198	G1125	G1056	G978	C898	U826
C1894	G1792	C1519	G1519	A1444	A1444	G1364	G1279	C1201	A1126	A1057	G978	C899	U827
G1899	C1793	A1690	U1520	A1444A	G4445	A1365	A1284	C1202	A1127	U1059	A983	A900	U828
A1900	U1794	G1692	G1521	A1446	G4447	G1368	G1285	A1203	A1128	G1060	C986	A901	A829
A1901	C1795	U1692	G1522	G4447	G4448	G1369	A1286	G1204	U1129	U1061	C987	G830	G830
A1902	U1796	C1598	G1525	A4449	G4449	G1370	A1287	C1207	A1130	G1062	G987	C902	G831
A1903	U1797	C1599	G1526	A4449A	A4449	C1371	U1288	G1208	G1135	C1064	G989	C903	G832
G1906	G1799	C1600	G1527	G4494	G4494	A1372	C1289	C1208	U1065	U1065	A990	G906	U833
A1913	C1800	G1601	A1528	C1451	G4451	G1382	G1299	G1209	U1066	U1066	C991	U907	C834
A1914	G1801	U1606	A1529	C1458	C1458	A1383	U1291	A1210	G1137	A1067	C992	A909	U839
A1915	A1802	C1607	C1533	A4459	C1459	G1384	G1292	U1211	G1138	G1068	G993	A910	C844
A1916	C1804	A1608	G1534	A4460	A1460	G1385	C1298	A1212	G1139	A1069	G994	A911	G845
A1917	U1805	A1609	U1535	G4461	G4461	G1386	G1299	A1214	C1140	A1070	C995	C912	G846
A1918	A1810	A1610	A1536	G4462	G4462	C1387	U1300	G1215	U1141	G1071	A996	C913	U847
A1919	G1811	U1614	C1537	C1464	C1464	A1388	U1301	C1218	U1142	C1072	G1003	C914	G848
A1920	G1812	C1617	G1538	G4465	G4465	G1389	A1302	G1219	C1144	A1077	C1004	C915	A849
C1924	G1813	A1618	G1540	G4466	C1467	G1392	G1303	A1220	C1145	C1075	C1006	A917	C850
C1925	G1816	U1621	G1542	G4467	C1468	G1393	G1309	C1222	C1147	A1078	G1009	G919	U851
U1926	U1817	G1622	G1544	A4470	G4470	G1394	G1310	G1228	U1148	C1079	A1010	C925	G853
A1927	U1818	A1622	C1544	A4471	A4471	U1394	G1311	U1228	A1080	A1080	G1011	C925	C856
A1928	U1819	U1639	A1545	A4472	A4472	A1395	U1312	C1230	U1081	U1081	G1012	G932	C857
A1929	U1820	C1640	A1546A	G4473	G4473	U1396	C1313	C1231	U1082	U1082	C1013	G932	U858
G1930	A1821	C1641	C1546	A4474	A4474	U1397	C1314	G1231	U1083	U1083	C1014	A933	G859
U1931	A1825	G1642	C1547	G4475	G4475	U1400	C1315	G1235	A1084	A1084	G1015	G938	U860
A1932	A1829	C1642	C1548	C1476	C1476	G1401	U1316	A1236	A1085	A1085	G1016	A941	A861
G1933	G1830	C1648	C1549	A4477	A4477	G1401	A1317	A1237	A1086	A1086	U1019	G942	A862
A1936	G1831	C1649	C1550	G4478	G4478	G1402	G1318	G1238	G1087	G1087	U1019	G942	A863
A1937	U1832	G1650	C1551	G4479	G4479	C1403	G1319	A1239	A1088	A1088	A1021	U943	C865
U1939	U1833	G1651	G1552	G4483	G4483	C1404	C1320	C1161	G1089	G1089	G1022	U943	A866
U1940	U1834	G1652	C1557	G4483	G4483	U1405	U1323	G1163	U1090	U1090	G1023	G946	C867
G1945	U1835	G1653	A1558	A4486	A4486	U1407	G1324	A1242	G1091	G1091	U1024	U868	U868
		A1654	G1559	G4487	G4487	C1407	G1243	G1243	G1093	G1093	G1025	G950	G869
		C1656	G1560	C1489	C1489	C1408	C1327	G1244	U1094	U1094	A1027	G951	A870
				C1493	C1493	G1410	U1329	U1249	A1096	A1096	A1028	G952	G873

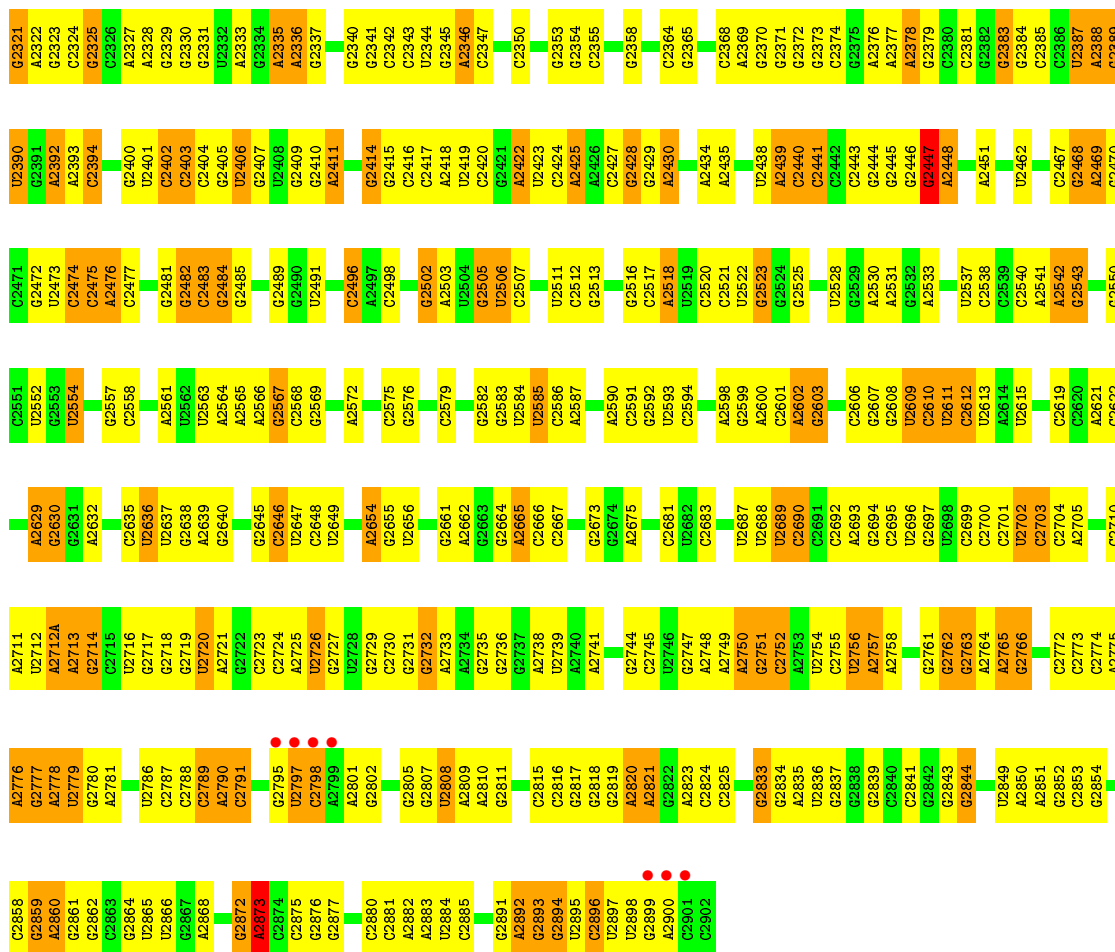


● Molecule 25: RNA (2912-MER)

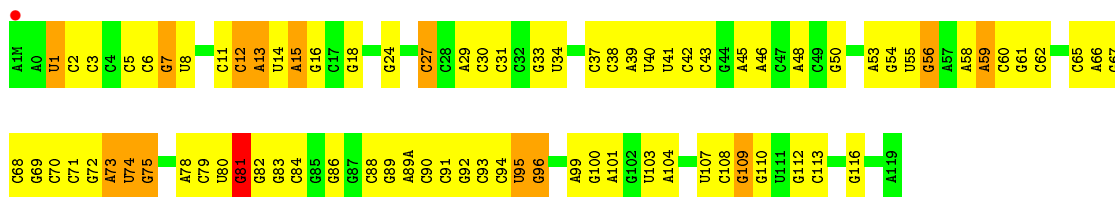




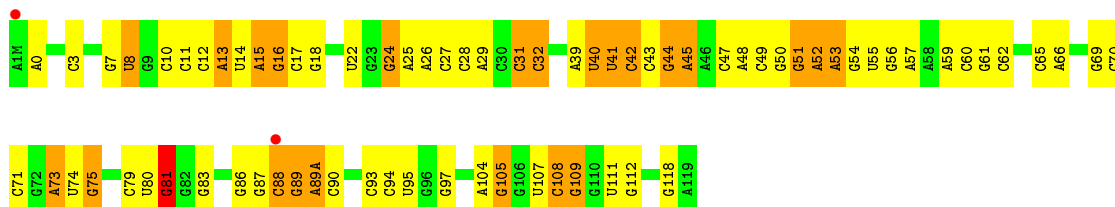
C2254	C2255	C2261	C2262	C2263	C2264	C2265	C2266	C2267	C2268	C2271	C2272	A2273	A2274	C2275	C2276	C2277	A2278	C2280	C2281	C2282	C2283	C2284	C2285	A2286	A2287	A2288	C2289	C2290	C2291	C2292	C2293	C2294	C2295	C2296	C2297	A2298	C2299	G2302	G2303	G2304	A2305	G2306	G2307	G2308	A2309	A2310	A2311	C2314	G2315	G2316	C2317	G2318	G2319	A2320																																							
U2016	G2101	G2162	C2163	C2164	C2165	C2166	U2167	C2168	C2169	A2170	U2171	U2172	A2173	C2174	C2175	U2180	C2181	C2182	C2183	C2184	C2185	C2186	C2187	C2188	C2189	C2190	C2191	C2192	C2193	C2194	C2195	C2196	U2197	A2198	U2208	C2209	C2210	C2211	A2212	U2213	C2215	A2225	C2226	C2231	C2232	C2233	C2234	C2235	C2236	C2237	C2238	C2239	U2243	U2244	G2250	G2251	U2252	G2253	A2320																																		
G2102	C2103	G2104	C2105	G2106	C2107	C2108	C2111	C2112	U2113	U2114	C2115	C2116	C2117	C2118	C2119	C2120	C2121	C2122	C2123	C2124	C2125	C2126	C2127	C2128	C2129	U2130	C2131	U2132	C2133	C2134	C2135	C2136	C2137	C2138	C2139	C2140	C2141	C2142	C2143	U2144	C2145	C2146	C2147	C2148	C2149	U2150	C2151	C2152	C2153	C2154	C2155	C2156	C2157	A2158	C2159	U2160	C2161																																				
A1812	G1813	A1814	A1815	G1816	A1817	A1818	A1819	A1820	A1821	G1826	A1829	C1830	C1831	C1832	C1833	G1839	C1843	A1847	A1848	U1851	C1852	A1853	A1854	G1858	A1859	C1860	U1864	U1865	U1866	U1867	U1868	A1869	U1878	U1879	A1884	G1888	A1889	A1890	G1899	A1900	A1901	C1902	G1903	G1906	G2010	U2011	C2012	A2013	A2014	A2015	G2077	C2078	C2080	C2081	A2082	U2086	C2087	U2092	C2093	G2094	C2097	U2098	U2099	G2100																													
U1621	G1622	C1625	G1635	C1638	U1639	C1640	G1645	C1646	G1647	C1648	C1649	G1650	C1651	A1652	G1653	A1654	C1657	C1658	A1664	A1665	A1666	A1667	A1668	A1669	C1670	C1671	C1672	U1673	C1674	C1675	G1678	G1681	C1686	G1687	U1688	A1689	U1693	C1696	G1697	A1698	A1701	C1710	C1711	U1716	G1717	G1718	G1725	G1728	U1730	G1731	C1732	C1735	C1741	G1748	A1749	G1753	C1754	A1755	G1756	U1757	G1758	A1759	C1761	A1762	G1763	A1764	A1765	G1771	A1772	A1773	U1778	U1779	A1780	C1781	C1782	A1783	A1784	A1884	G1888	A1889	A1890	C1899	A1900	A1901	C1902	C1903	G1906	G2010	U2011	C2012	A2013	A2014	A2015
U1454	G1455	C1458	G1459	G1460	G1461	C1464	C1467	A1469	G1470	A1471	C1472	C1473	C1474	G1475	C1476	C1477	G1478	G1479	U1480	G1483	G1484	A1485	A1486	A1490	C1493	C1494	A1495	A1496	U1503	C1504	C1505	A1508	C1509	A1510	A1511	C1513	U1514	C1515	U1516	U1520	G1521	G1522	U1523	A1524	G1525	G1526	G1527	A1528	C1533	A1536	C1537	C1538	A1539	A1560	A1565	G1566	G1567	G1568	G1569	A1444A	C1445	C1446	G1447	U1448	U1449	A1449A	G1450	C1451	A1453																								
G1388	G1389	A1392	G1393	U1394	A1395	U1396	U1397	C1398	G1401	C1402	C1403	U1404	U1405	U1406	U1407	U1408	C1409	A1412	G1413	G1416	C1417	G1418	A1419	U1420	U1421	G1422	G1426	A1427	C1428	C1429	C1430	U1431	C1432	U1433	A1434	G1435	G1436	C1437	U1438	U1439	A1365	G1442	G1443	G1444	A1444A	C1445	C1446	G1447	U1448	U1449	A1449A	G1450	C1451	A1453																																							
G1309	G1310	U1312	U1313	U1314	U1315	U1316	A1317	C1318	C1319	U1323	C1324	U1325	U1326	C1327	U1328	U1329	C1330	C1331	A1336	C1337	C1338	U1339	U1340	U1341	A1342	G1343	C1344	C1345	U1346	C1347	C1348	U1349	U1352	G1356	U1357	C1358	U1359	A1360	A1365	G1366	A1367	G1368	C1369	C1370	C1297	C1298	A1299	U1300	A1301	A1302	G1303	A1308																																									
C1222	C1223	G1224	C1225	G1226	A1227	G1228	U1229A	G1230	G1231	G1232	A1241	G1248	U1249	U1250	C1251	G1252	A1253	U1254	U1255	G1256	G1259	C1260	C1261	A1262	U1263	G1264	A1265	C1266	U1267	A1268	U1269	G1270	C1271	U1272	U1273	A1278	G1279	G1285	U1288	G1291	U1292	C1297	C1298	A1299	U1300	A1301	A1302	G1303	A1308																																												
C1150	G1151	C1152	C1153	A1154	A1155	U1159	G1160	C1161	G1162	G1163	G1164	U1165	U1166	U1167	U1168	U1169	G1170	G1171	A1173	A1174	U1175	U1176	A1177	C1178	A1179	C1180	C1181	G1187	U1188	A1189	U1190	G1191	G1192	G1193	A1194	G1195	C1196	G1197	U1198	U1199	C2200	C2201	G2202	G2203	A1204	U1205	A1210	G1211	G1212	C1217	C1218	G1219	A1221	C1221																																							



• Molecule 26: 5S RIBOSOMAL RNA

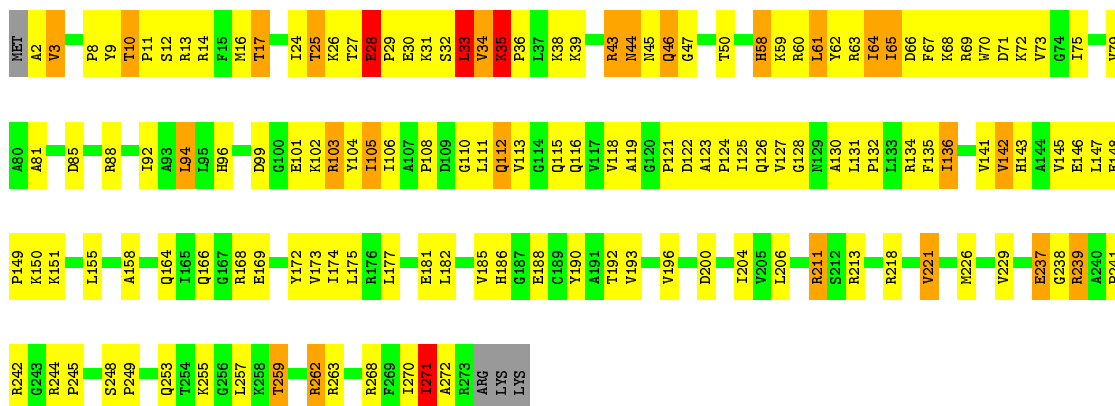


• Molecule 26: 5S RIBOSOMAL RNA



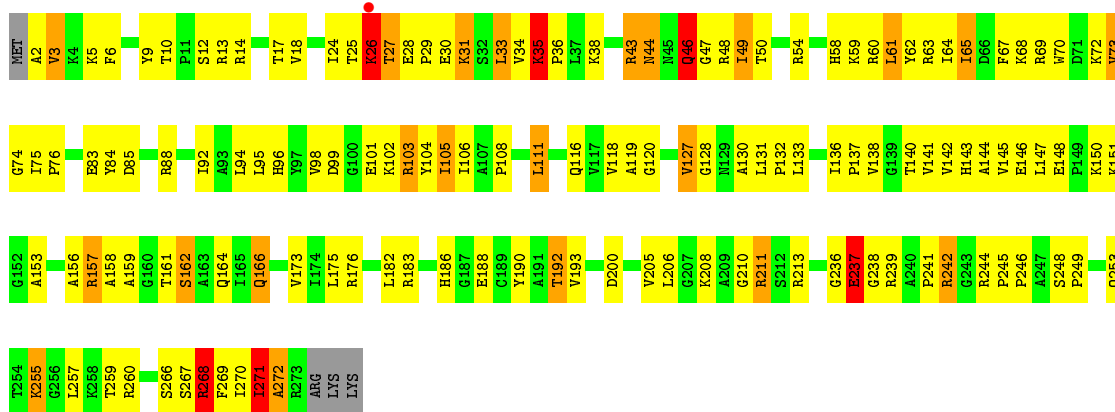
• Molecule 27: 50S ribosomal protein L2

Chain BD: 



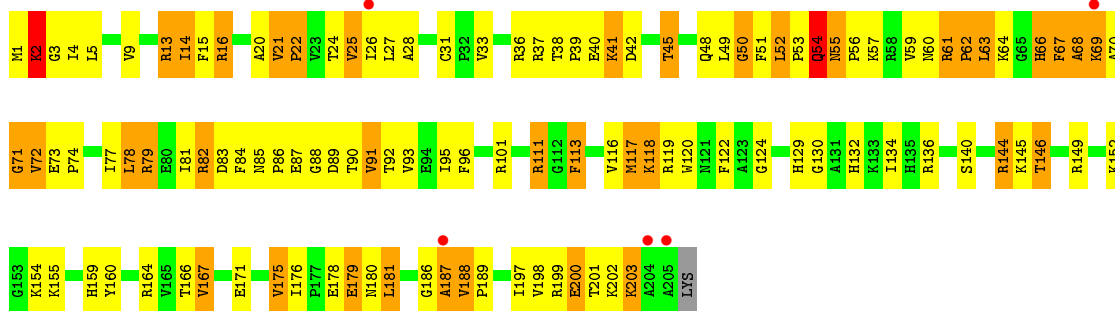
• Molecule 27: 50S ribosomal protein L2

Chain DD: 



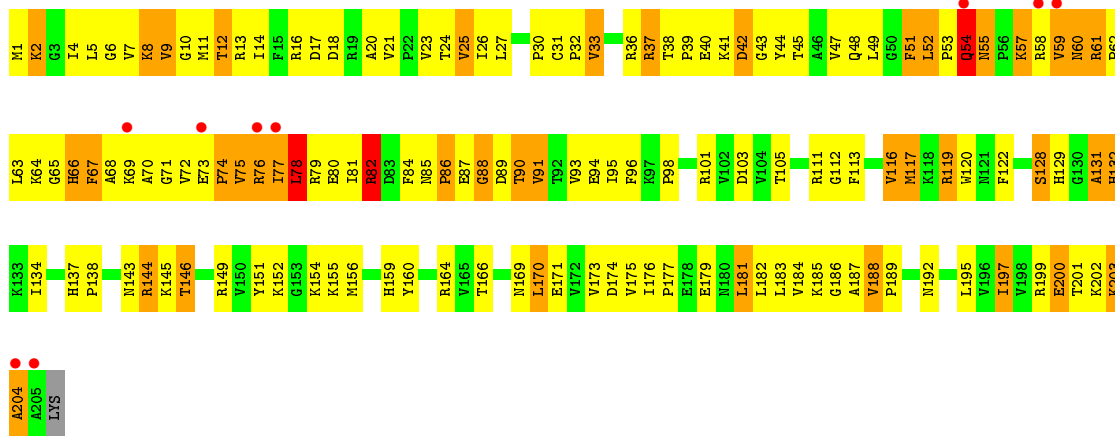
• Molecule 28: 50S ribosomal protein L3

Chain BE: 

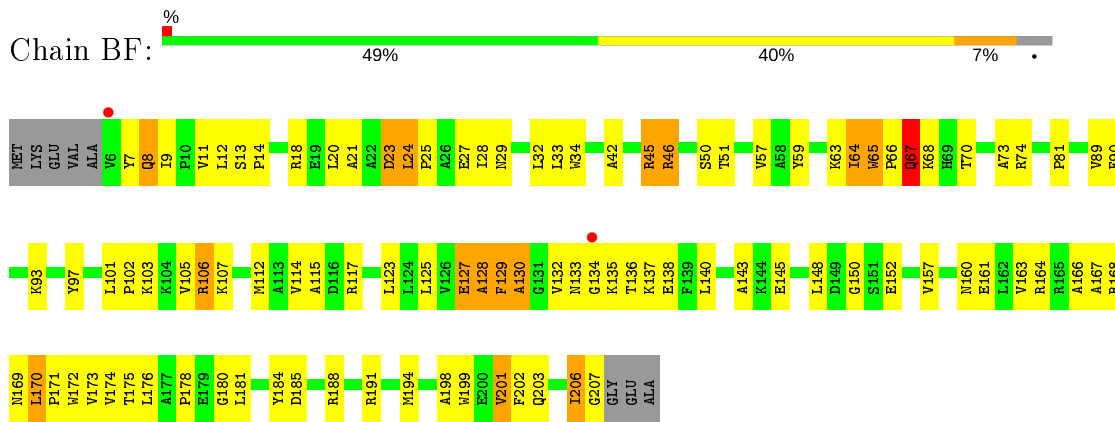


• Molecule 28: 50S ribosomal protein L3

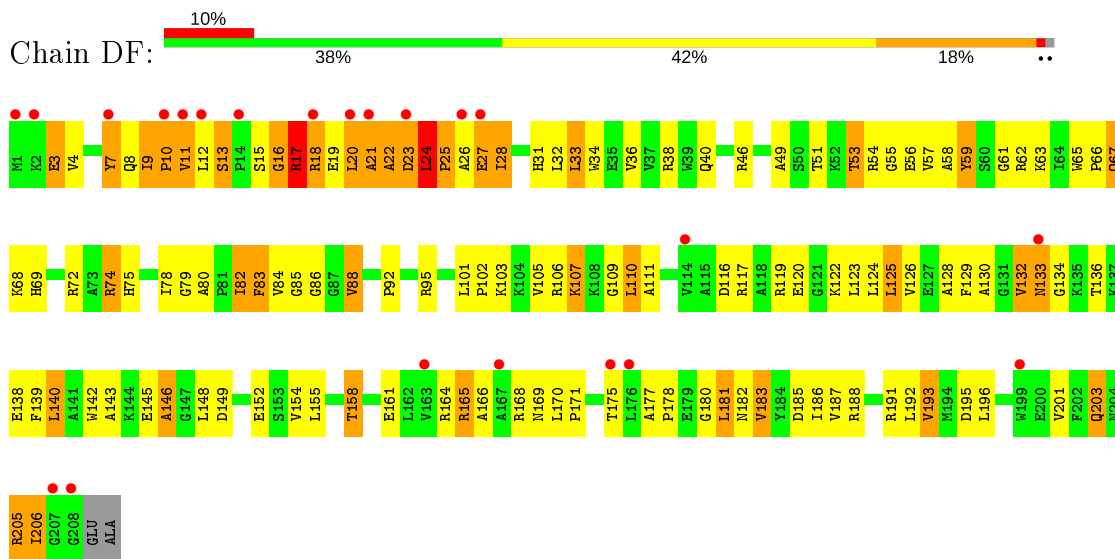
Chain DE: 



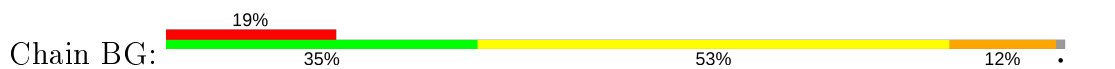
• Molecule 29: 50S ribosomal protein L4

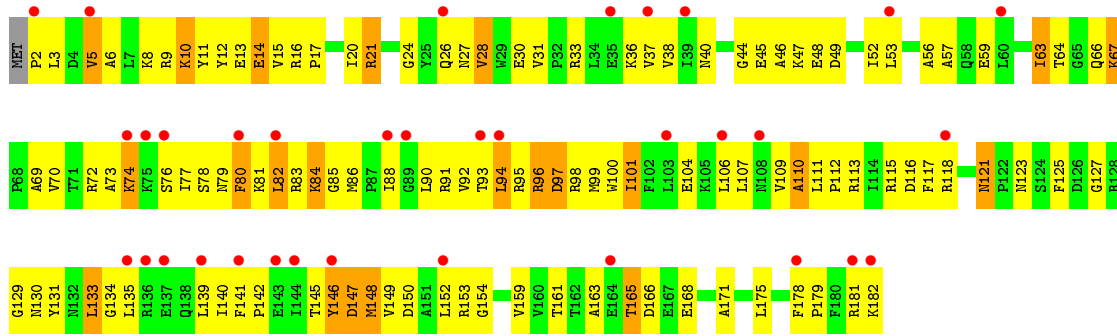


• Molecule 29: 50S ribosomal protein L4

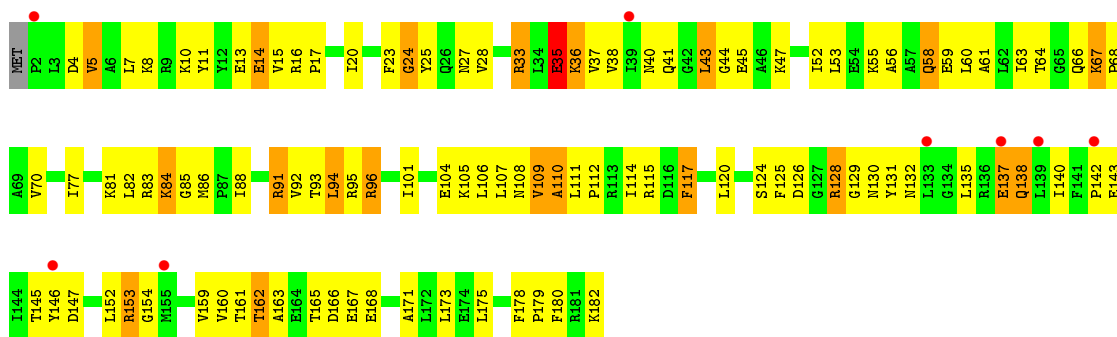


• Molecule 30: 50S ribosomal protein L5

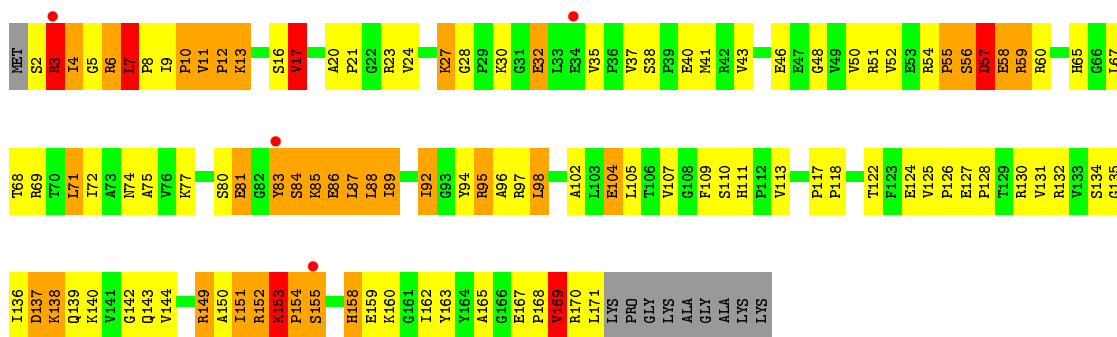




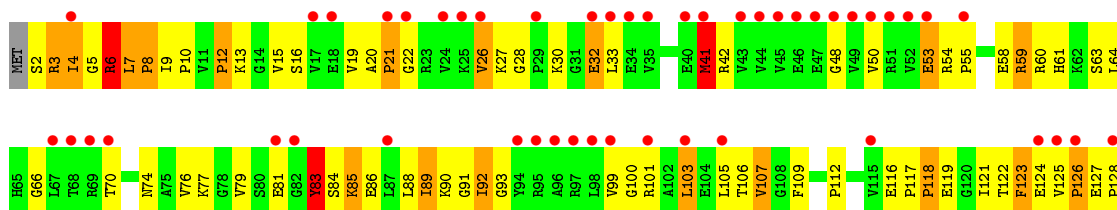
• Molecule 30: 50S ribosomal protein L5

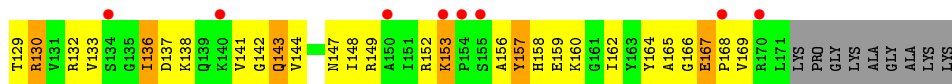


• Molecule 31: 50S ribosomal protein L6

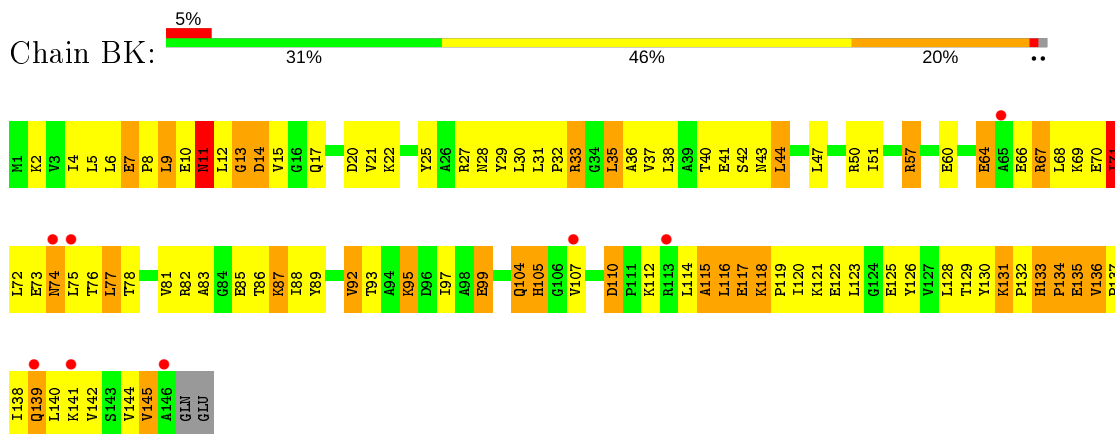


• Molecule 31: 50S ribosomal protein L6

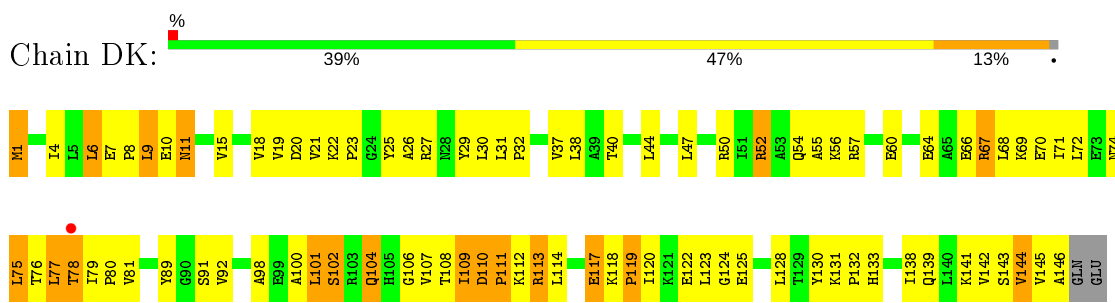




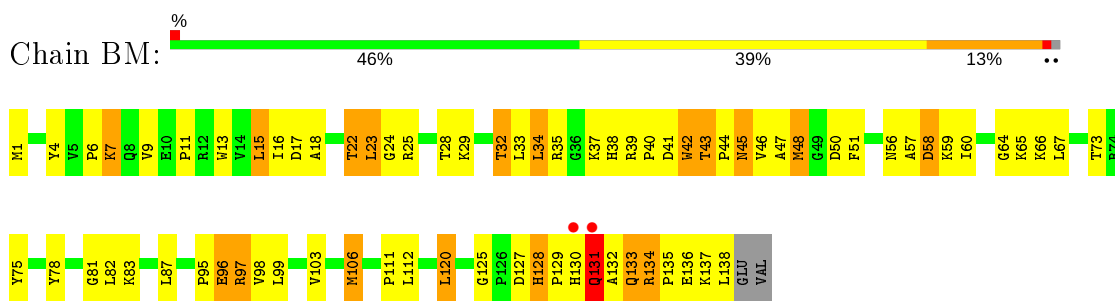
• Molecule 32: 50S ribosomal protein L9



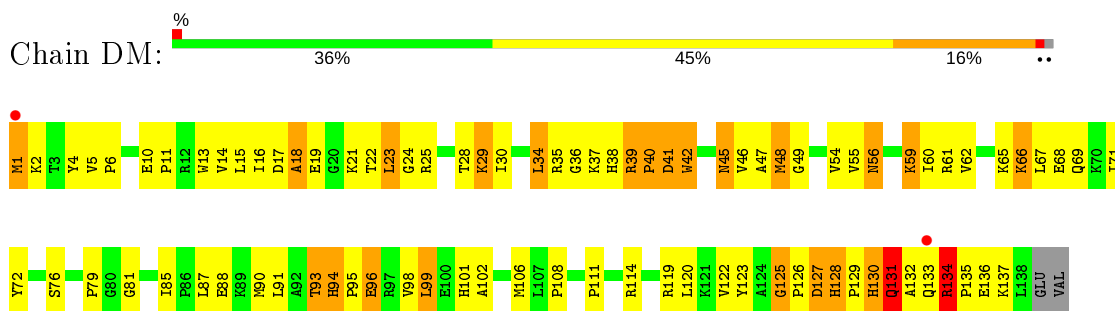
• Molecule 32: 50S ribosomal protein L9



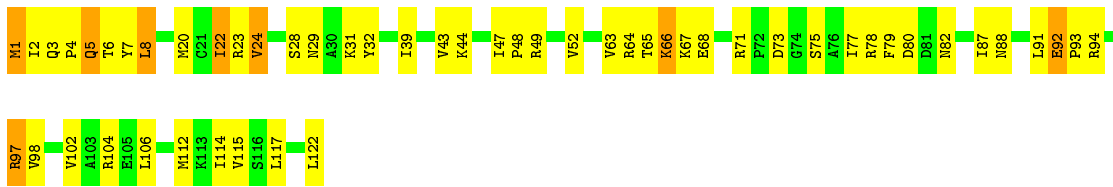
• Molecule 33: 50S ribosomal protein L13



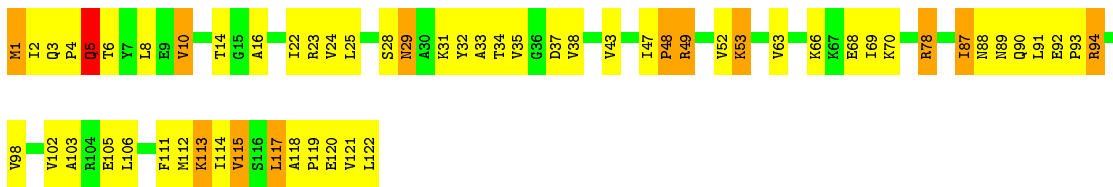
• Molecule 33: 50S ribosomal protein L13



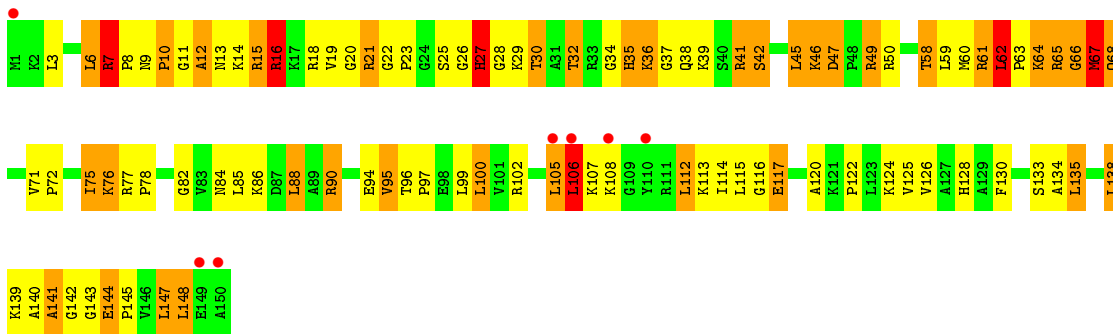
• Molecule 34: 50S ribosomal protein L14



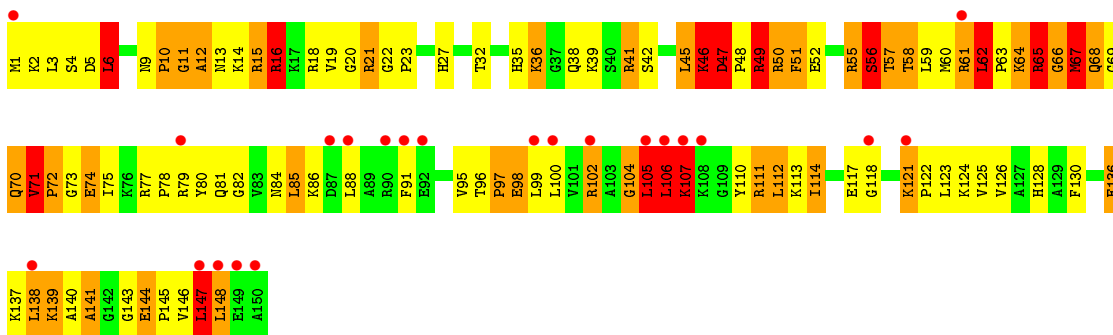
• Molecule 34: 50S ribosomal protein L14



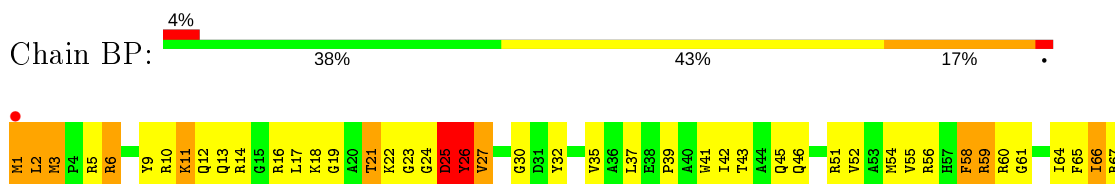
• Molecule 35: 50S ribosomal protein L15



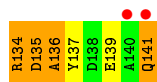
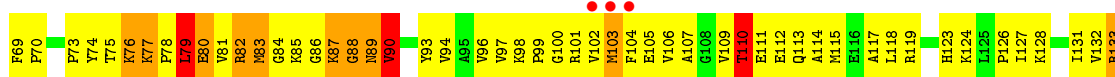
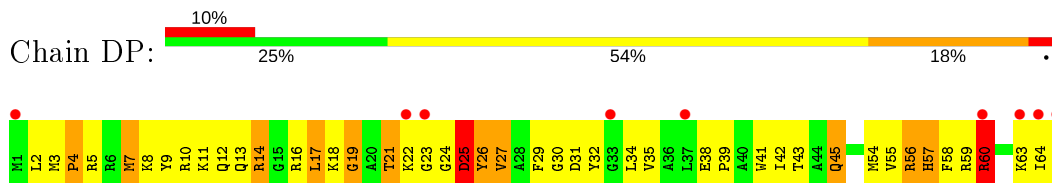
• Molecule 35: 50S ribosomal protein L15



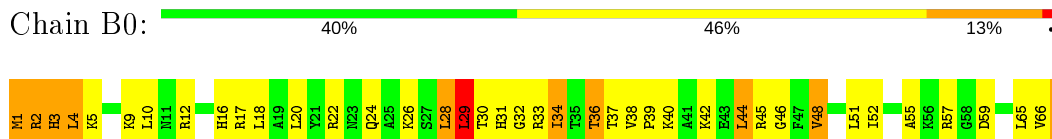
• Molecule 36: 50S ribosomal protein L16



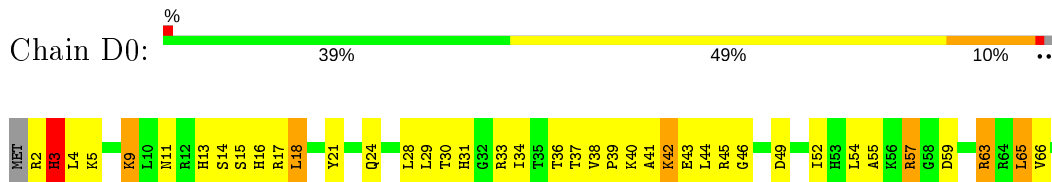
- Molecule 36: 50S ribosomal protein L16



- Molecule 37: 50S ribosomal protein L17

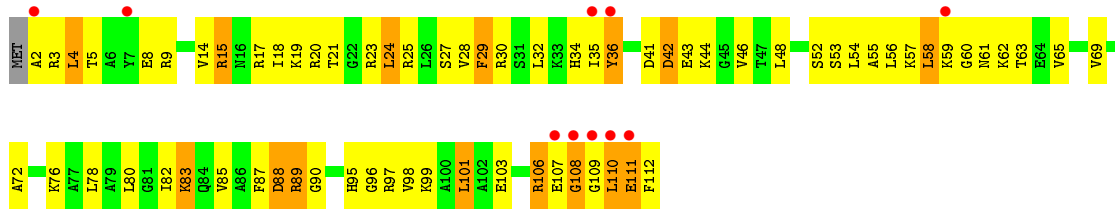


- Molecule 37: 50S ribosomal protein L17

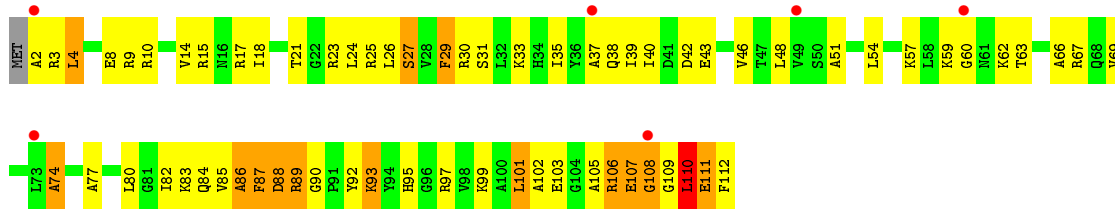


- Molecule 38: 50S ribosomal protein L18

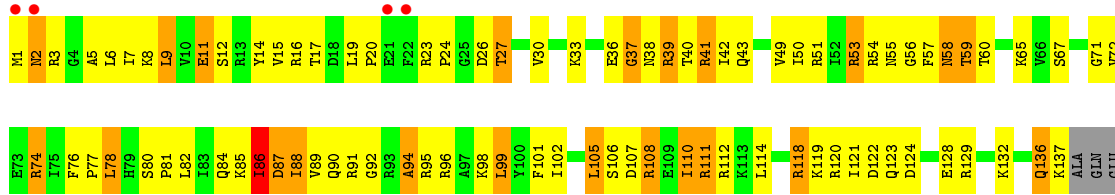




• Molecule 38: 50S ribosomal protein L18

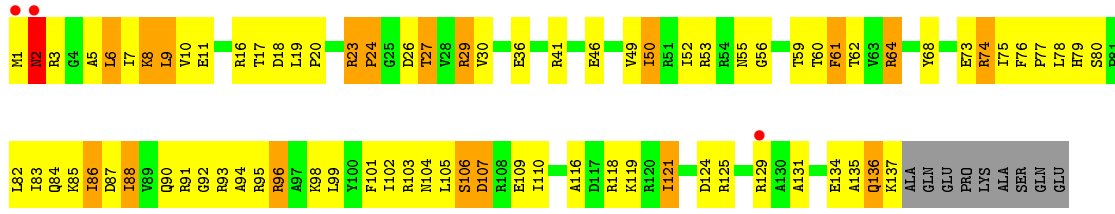


• Molecule 39: 50S ribosomal protein L19

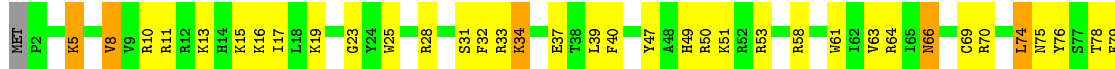


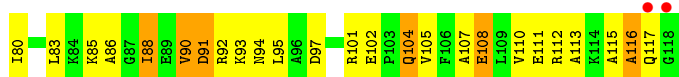
PRO
LYS
ALA
SER
GLN
GLU

• Molecule 39: 50S ribosomal protein L19

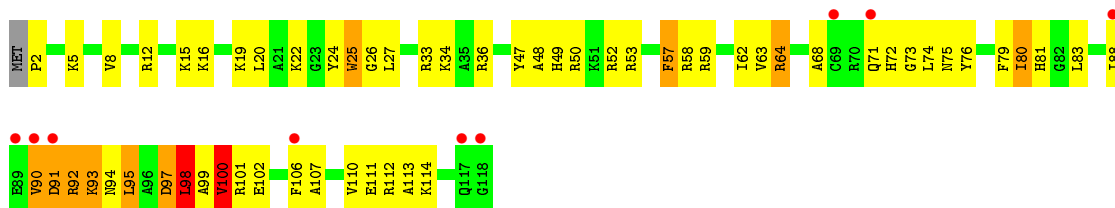


• Molecule 40: 50S ribosomal protein L20

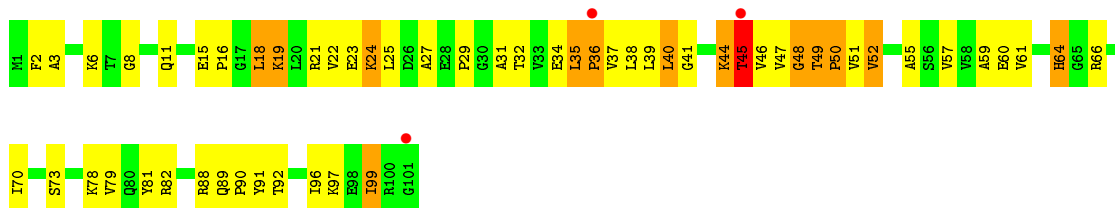




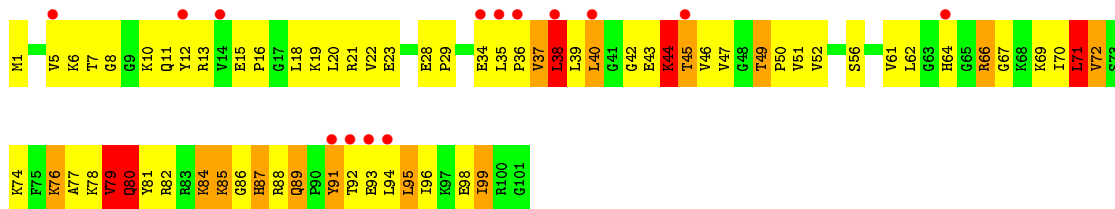
• Molecule 40: 50S ribosomal protein L20



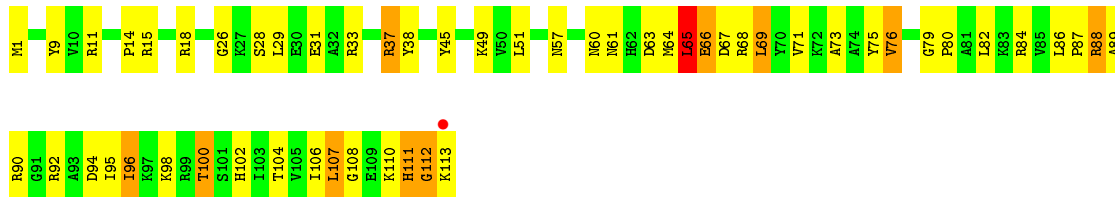
• Molecule 41: 50S ribosomal protein L21



• Molecule 41: 50S ribosomal protein L21

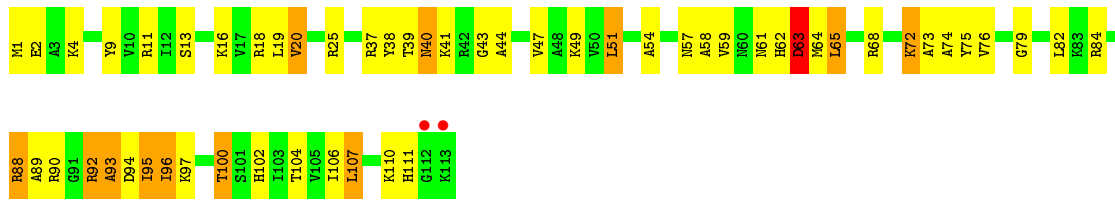


• Molecule 42: 50S ribosomal protein L22

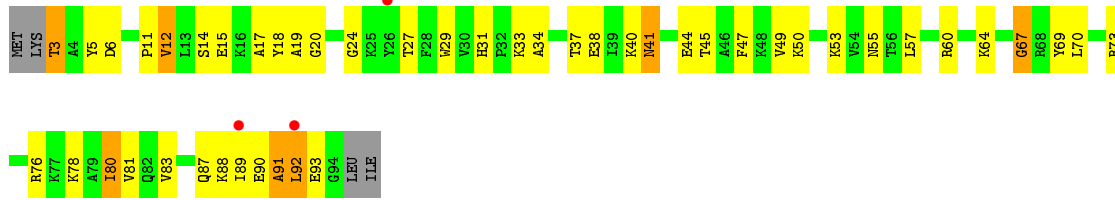


• Molecule 42: 50S ribosomal protein L22

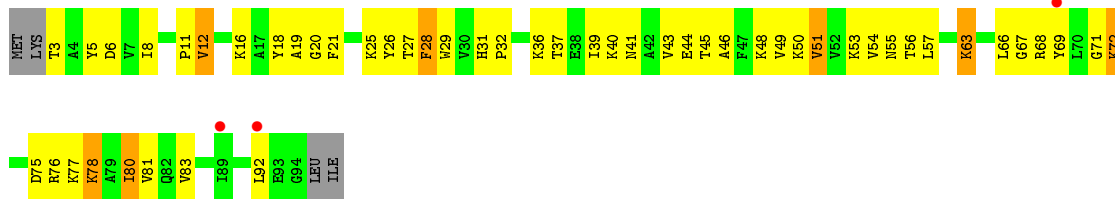




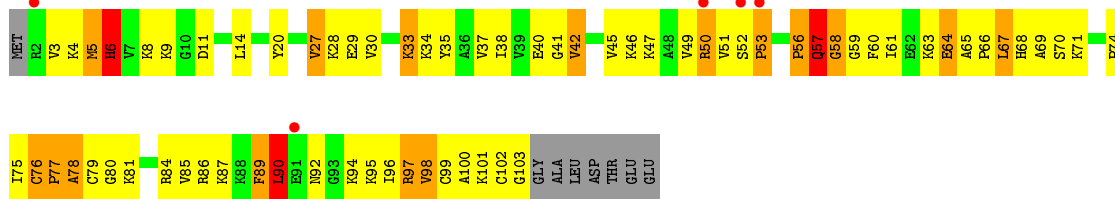
• Molecule 43: 50S ribosomal protein L23



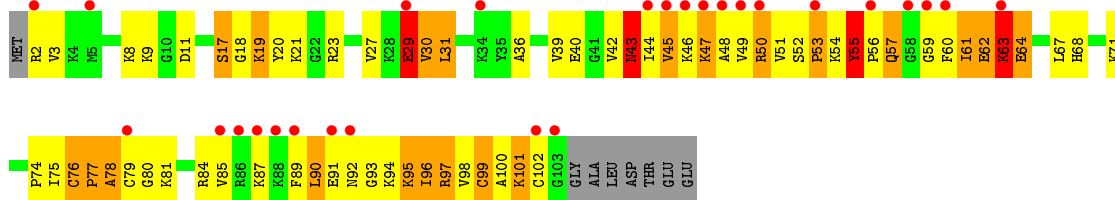
• Molecule 43: 50S ribosomal protein L23



• Molecule 44: 50S ribosomal protein L24



• Molecule 44: 50S ribosomal protein L24

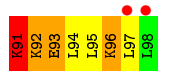
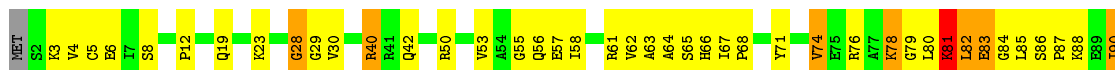




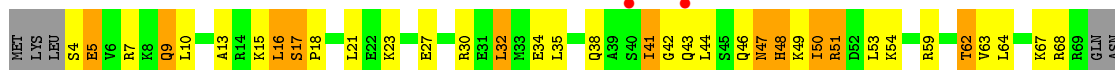
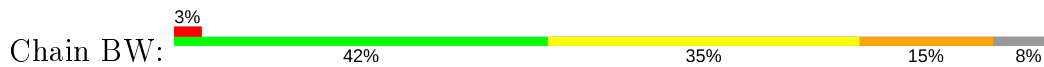
• Molecule 47: 50S ribosomal protein L28



• Molecule 47: 50S ribosomal protein L28



• Molecule 48: 50S ribosomal protein L29



• Molecule 48: 50S ribosomal protein L29



• Molecule 49: 50S ribosomal protein L30

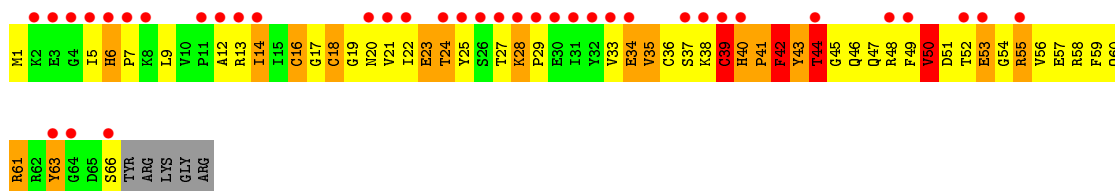
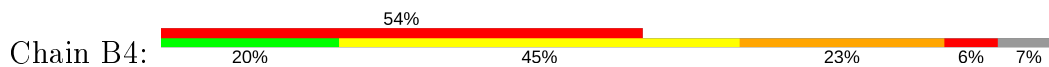




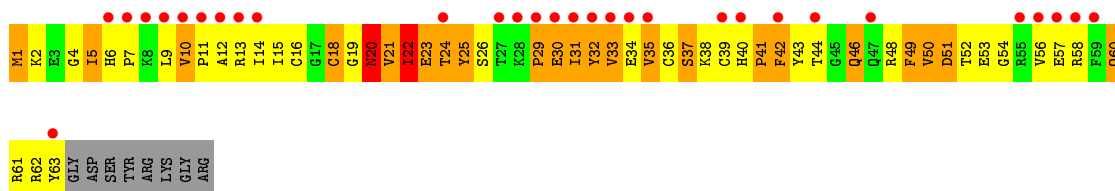
• Molecule 49: 50S ribosomal protein L30



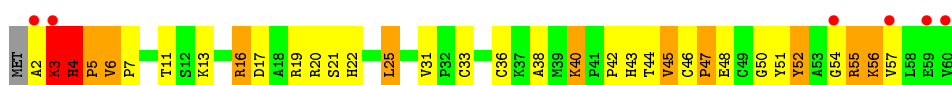
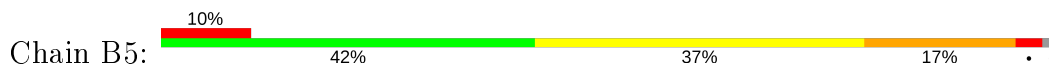
• Molecule 50: 50S ribosomal protein L31



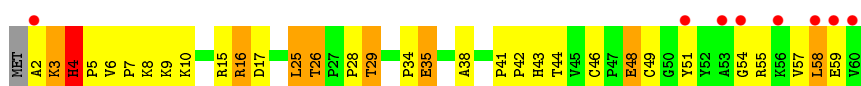
• Molecule 50: 50S ribosomal protein L31



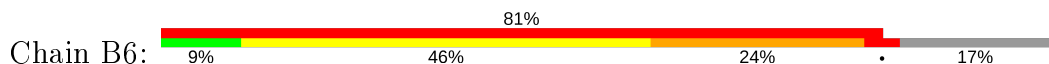
• Molecule 51: 50S ribosomal protein L32

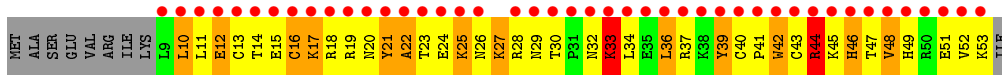


• Molecule 51: 50S ribosomal protein L32

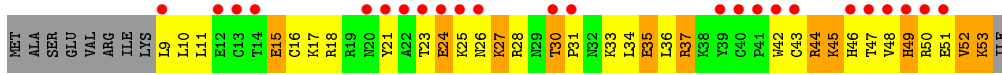
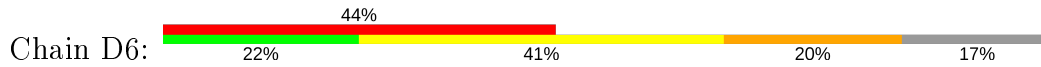


• Molecule 52: 50S ribosomal protein L33





- Molecule 52: 50S ribosomal protein L33



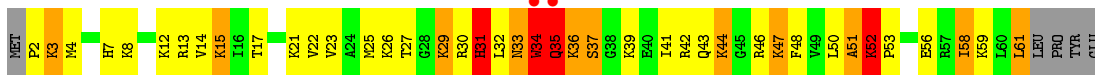
- Molecule 53: 50S ribosomal protein L34



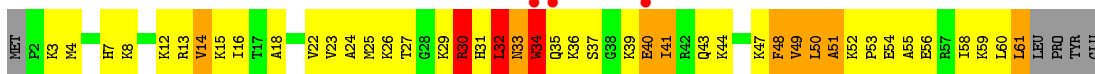
- Molecule 53: 50S ribosomal protein L34



- Molecule 54: 50S ribosomal protein L35



- Molecule 54: 50S ribosomal protein L35



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.67Å 451.75Å 625.08Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	154.06 – 3.00 257.02 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (154.06-3.00) 93.5 (257.02-3.00)	Depositor EDS
R_{merge}	0.22	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.20 (at 3.01Å)	Xtrriage
Refinement program	PHENIX dev_810	Depositor
R, R_{free}	0.203 , 0.235 0.204 , 0.232	Depositor DCC
R_{free} test set	2000 reflections (0.17%)	wwPDB-VP
Wilson B-factor (Å ²)	78.2	Xtrriage
Anisotropy	0.228	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 82.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.47$, $\langle L^2 \rangle = 0.30$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	299676	wwPDB-VP
Average B, all atoms (Å ²)	100.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.47% 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 [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: MIA, ZN, MG

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	AA	0.28	0/36139	0.67	20/56406 (0.0%)
1	CA	0.28	0/36142	0.66	20/56410 (0.0%)
2	AE	0.22	0/1959	0.42	0/2642
2	CE	0.22	0/1959	0.42	0/2642
3	AF	0.22	0/1629	0.42	0/2195
3	CF	0.21	0/1636	0.40	0/2205
4	AG	0.29	1/1733 (0.1%)	0.44	0/2318
4	CG	0.27	0/1733	0.47	0/2318
5	AH	0.24	0/1171	0.44	0/1576
5	CH	0.24	0/1171	0.44	0/1576
6	AI	0.24	0/856	0.42	0/1154
6	CI	0.24	0/856	0.42	0/1154
7	AJ	0.22	0/1276	0.40	0/1709
7	CJ	0.22	0/1276	0.38	0/1709
8	AK	0.23	0/1136	0.44	0/1527
8	CK	0.22	0/1136	0.42	0/1527
9	AL	0.23	0/1029	0.41	0/1379
9	CL	0.22	0/1029	0.42	0/1379
10	AM	0.22	0/814	0.42	0/1095
10	CM	0.21	0/814	0.43	0/1095
11	AN	0.24	0/900	0.44	0/1213
11	CN	0.24	0/900	0.43	0/1213
12	AO	0.26	0/991	0.49	0/1327
12	CO	0.25	0/991	0.49	0/1327
13	AP	0.22	0/938	0.45	0/1258
13	CP	0.20	0/943	0.41	0/1265
14	AQ	0.27	0/485	0.47	0/643
14	CQ	0.23	0/485	0.43	0/643
15	AR	0.24	0/745	0.43	0/992
15	CR	0.23	0/745	0.39	0/992
16	AS	0.22	0/721	0.44	0/970
16	CS	0.23	0/721	0.42	0/970

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AT	0.23	0/847	0.43	0/1131
17	CT	0.24	0/847	0.42	0/1131
18	AU	0.25	0/596	0.45	0/790
18	CU	0.24	0/596	0.44	0/790
19	AV	0.23	0/638	0.45	0/860
19	CV	0.22	0/638	0.43	0/860
20	AW	0.22	0/765	0.42	0/1007
20	CW	0.23	0/765	0.45	0/1007
21	AX	0.22	0/221	0.41	0/288
21	CX	0.21	0/221	0.40	0/288
22	AB	0.28	0/1992	0.60	0/3099
22	AD	0.21	0/1992	0.50	0/3099
22	CB	0.26	0/1992	0.57	0/3099
22	CD	0.20	0/1992	0.49	0/3099
23	AC	0.25	0/1835	0.59	1/2859 (0.0%)
23	CC	0.24	0/1835	0.57	0/2859
24	A1	0.33	0/389	0.64	0/604
24	C1	0.38	0/389	0.65	0/604
25	BA	0.37	0/70233	0.75	52/109643 (0.0%)
25	DA	0.33	1/70122 (0.0%)	0.70	54/109469 (0.0%)
26	BB	0.33	0/2928	0.80	11/4568 (0.2%)
26	DB	0.29	0/2928	0.74	4/4568 (0.1%)
27	BD	0.32	0/2165	0.58	1/2919 (0.0%)
27	DD	0.29	0/2165	0.52	0/2919
28	BE	0.29	0/1601	0.55	0/2160
28	DE	0.27	0/1601	0.52	0/2160
29	BF	0.28	0/1620	0.50	0/2194
29	DF	0.26	0/1662	0.52	0/2249
30	BG	0.24	0/1499	0.43	0/2016
30	DG	0.21	0/1499	0.42	0/2016
31	BH	0.25	0/1332	0.50	0/1802
31	DH	0.21	0/1332	0.44	0/1802
32	BK	0.24	0/1151	0.49	0/1558
32	DK	0.23	0/1151	0.51	0/1558
33	BM	0.26	0/1131	0.49	0/1525
33	DM	0.23	0/1131	0.44	0/1525
34	BN	0.27	0/943	0.46	0/1269
34	DN	0.26	0/943	0.46	0/1269
35	BO	0.28	0/1162	0.58	0/1544
35	DO	0.24	0/1162	0.45	0/1544
36	BP	0.27	0/1143	0.46	0/1527
36	DP	0.24	0/1143	0.41	0/1527
37	B0	0.26	0/982	0.48	0/1312

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	D0	0.25	0/974	0.45	0/1302
38	BQ	0.26	0/892	0.50	0/1187
38	DQ	0.23	0/892	0.46	0/1187
39	BR	0.28	0/1155	0.49	0/1542
39	DR	0.25	0/1155	0.44	0/1542
40	B1	0.28	0/982	0.49	0/1306
40	D1	0.24	0/982	0.44	0/1306
41	B2	0.26	0/790	0.48	0/1057
41	D2	0.27	0/790	0.51	0/1057
42	BS	0.27	0/911	0.47	0/1220
42	DS	0.26	0/911	0.44	0/1220
43	BT	0.31	0/739	0.49	0/993
43	DT	0.28	0/739	0.46	0/993
44	BU	0.29	0/798	0.52	0/1064
44	DU	0.26	0/798	0.48	0/1064
45	BV	0.23	0/1427	0.48	1/1935 (0.1%)
45	DV	0.22	0/1460	0.43	0/1982
46	B3	0.28	0/615	0.46	0/819
46	D3	0.26	0/621	0.44	0/827
47	BZ	0.27	0/770	0.50	0/1022
47	DZ	0.26	0/770	0.50	0/1022
48	BW	0.28	0/560	0.52	0/741
48	DW	0.25	0/560	0.45	0/741
49	BX	0.25	0/474	0.42	0/635
49	DX	0.22	0/474	0.41	0/635
50	B4	0.22	0/545	0.49	0/733
50	D4	0.23	0/527	0.51	0/709
51	B5	0.25	0/473	0.51	0/639
51	D5	0.24	0/473	0.54	0/639
52	B6	0.26	0/396	0.46	0/529
52	D6	0.23	0/396	0.51	0/529
53	B7	0.31	0/399	0.44	0/526
53	D7	0.26	0/399	0.44	0/526
54	B8	0.33	0/486	0.55	0/638
54	D8	0.33	0/486	0.67	0/638
All	All	0.30	2/324157 (0.0%)	0.65	164/485451 (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
31	BH	0	1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	DA	2873	A	N7-C5	-5.99	1.35	1.39
4	AG	12	CYS	CB-SG	5.09	1.90	1.82

The worst 5 of 164 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
25	DA	2311	A	N1-C2-N3	12.09	135.35	129.30
25	DA	2311	A	N1-C6-N6	10.02	124.61	118.60
25	BA	673	C	C2-N3-C4	-10.01	114.89	119.90
26	BB	95	U	C5-C4-O4	9.25	131.45	125.90
25	DA	673	C	C2-N3-C4	-9.13	115.33	119.90

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
31	BH	153	LYS	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	AA	32284	0	16296	1132	1
1	CA	32287	0	16295	1151	1
2	AE	1924	0	1975	160	0
2	CE	1924	0	1975	155	0
3	AF	1605	0	1668	115	0
3	CF	1612	0	1677	117	0
4	AG	1703	0	1763	116	0
4	CG	1703	0	1763	116	0
5	AH	1155	0	1213	75	0
5	CH	1155	0	1213	63	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
6	AI	843	0	857	52	0
6	CI	843	0	857	41	0
7	AJ	1257	0	1296	66	0
7	CJ	1257	0	1296	73	0
8	AK	1116	0	1177	76	0
8	CK	1116	0	1177	48	0
9	AL	1010	0	1037	80	0
9	CL	1010	0	1037	112	0
10	AM	801	0	849	76	0
10	CM	801	0	849	83	0
11	AN	885	0	904	58	0
11	CN	885	0	904	38	0
12	AO	975	0	1062	96	0
12	CO	975	0	1062	66	0
13	AP	928	0	987	76	0
13	CP	933	0	992	81	0
14	AQ	476	0	511	42	0
14	CQ	476	0	511	39	0
15	AR	734	0	771	33	0
15	CR	734	0	771	32	0
16	AS	705	0	725	57	0
16	CS	705	0	725	23	0
17	AT	834	0	904	43	0
17	CT	834	0	904	39	0
18	AU	591	0	662	27	0
18	CU	591	0	662	37	0
19	AV	624	0	636	52	0
19	CV	624	0	636	67	0
20	AW	763	0	861	63	0
20	CW	763	0	861	58	0
21	AX	217	0	234	18	0
21	CX	217	0	234	20	0
22	AB	1814	0	932	112	0
22	AD	1814	0	932	110	0
22	CB	1814	0	932	111	0
22	CD	1814	0	932	99	0
23	AC	1643	0	837	41	0
23	CC	1643	0	837	38	0
24	A1	346	0	174	19	0
24	C1	346	0	174	17	0
25	BA	62707	0	31614	1935	0
25	DA	62607	0	31565	2087	1

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
26	BB	2617	0	1328	89	0
26	DB	2617	0	1328	108	0
27	BD	2115	0	2195	197	0
27	DD	2115	0	2195	189	0
28	BE	1568	0	1634	146	0
28	DE	1568	0	1634	183	0
29	BF	1585	0	1632	111	0
29	DF	1627	0	1680	162	0
30	BG	1474	0	1535	129	0
30	DG	1474	0	1535	101	0
31	BH	1307	0	1382	147	0
31	DH	1307	0	1382	101	1
32	BK	1136	0	1223	102	0
32	DK	1136	0	1223	79	0
33	BM	1104	0	1180	75	0
33	DM	1104	0	1180	82	0
34	BN	933	0	996	51	0
34	DN	933	0	996	55	0
35	BO	1145	0	1228	176	0
35	DO	1145	0	1228	299	0
36	BP	1122	0	1179	140	0
36	DP	1122	0	1179	166	0
37	B0	968	0	1033	75	0
37	D0	960	0	1021	66	0
38	BQ	882	0	943	84	0
38	DQ	882	0	943	79	0
39	BR	1141	0	1202	98	0
39	DR	1141	0	1202	94	0
40	B1	964	0	1022	74	0
40	D1	964	0	1022	84	0
41	B2	779	0	852	72	0
41	D2	779	0	852	114	0
42	BS	900	0	964	41	0
42	DS	900	0	964	52	0
43	BT	725	0	778	48	0
43	DT	725	0	778	50	0
44	BU	785	0	878	99	0
44	DU	785	0	878	91	0
45	BV	1397	0	1430	138	0
45	DV	1428	0	1454	125	0
46	B3	607	0	628	41	0
46	D3	613	0	633	45	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
47	BZ	763	0	848	50	0
47	DZ	763	0	848	48	0
48	BW	558	0	610	38	0
48	DW	558	0	610	43	0
49	BX	469	0	518	21	0
49	DX	469	0	518	24	0
50	B4	533	0	522	128	0
50	D4	515	0	510	71	0
51	B5	459	0	480	92	0
51	D5	459	0	476	39	0
52	B6	389	0	404	80	0
52	D6	389	0	404	51	0
53	B7	391	0	432	17	0
53	D7	391	0	432	25	0
54	B8	480	0	549	116	0
54	D8	480	0	549	81	0
55	A1	1	0	0	0	0
55	AA	220	0	0	0	0
55	AB	4	0	0	0	0
55	AC	8	0	0	0	0
55	AD	3	0	0	0	0
55	AG	2	0	0	0	0
55	AN	1	0	0	0	0
55	AR	1	0	0	0	0
55	AS	1	0	0	0	0
55	B0	1	0	0	0	0
55	B1	2	0	0	0	0
55	B2	1	0	0	0	0
55	B3	3	0	0	0	0
55	B5	1	0	0	0	0
55	B6	1	0	0	0	0
55	B7	1	0	0	0	0
55	BA	568	0	0	0	0
55	BB	18	0	0	0	0
55	BD	1	0	0	0	0
55	BE	3	0	0	0	0
55	BF	3	0	0	0	0
55	BO	2	0	0	0	0
55	BW	1	0	0	0	0
55	CA	219	0	0	0	0
55	CB	4	0	0	0	0
55	CC	9	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	CD	1	0	0	0	0
55	CG	2	0	0	0	0
55	CK	1	0	0	0	0
55	CR	1	0	0	0	0
55	D0	1	0	0	0	0
55	D1	1	0	0	0	0
55	D3	1	0	0	0	0
55	D5	2	0	0	0	0
55	D7	1	0	0	0	0
55	D8	1	0	0	0	0
55	DA	488	0	0	0	0
55	DB	20	0	0	0	0
55	DD	3	0	0	0	0
55	DE	1	0	0	0	0
55	DO	1	0	0	0	0
56	AG	1	0	0	0	0
56	AQ	1	0	0	0	0
56	CG	1	0	0	0	0
56	CQ	1	0	0	0	0
All	All	299676	0	200977	13379	2

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 27.

The worst 5 of 13379 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)
35:DO:46:LYS:HD3	35:DO:51:PHE:CD1	1.38	1.55
54:B8:34:TRP:CB	54:B8:35:GLN:HB2	1.34	1.55
50:B4:37:SER:HB3	50:B4:42:PHE:CD1	1.40	1.52
35:DO:71:VAL:HG13	35:DO:72:PRO:CD	1.44	1.47
35:BO:19:VAL:HG23	35:BO:27:HIS:CB	1.45	1.46

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:85:U:O2'	31:DH:100:GLY:O[3_555]	1.97	0.23
1:CA:86:U:O2'	25:DA:276:A:OP2[3_545]	2.19	0.01

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	
2	AE	235/256 (92%)	170 (72%)	44 (19%)	21 (9%)	1	3
2	CE	235/256 (92%)	161 (68%)	48 (20%)	26 (11%)	0	2
3	AF	203/239 (85%)	157 (77%)	36 (18%)	10 (5%)	2	13
3	CF	204/239 (85%)	151 (74%)	40 (20%)	13 (6%)	1	7
4	AG	206/208 (99%)	169 (82%)	29 (14%)	8 (4%)	3	17
4	CG	206/208 (99%)	167 (81%)	24 (12%)	15 (7%)	1	5
5	AH	149/162 (92%)	128 (86%)	16 (11%)	5 (3%)	3	20
5	CH	149/162 (92%)	129 (87%)	18 (12%)	2 (1%)	12	45
6	AI	99/101 (98%)	88 (89%)	8 (8%)	3 (3%)	4	24
6	CI	99/101 (98%)	92 (93%)	7 (7%)	0	100	100
7	AJ	153/156 (98%)	127 (83%)	21 (14%)	5 (3%)	4	21
7	CJ	153/156 (98%)	131 (86%)	16 (10%)	6 (4%)	3	17
8	AK	136/138 (99%)	113 (83%)	15 (11%)	8 (6%)	1	9
8	CK	136/138 (99%)	116 (85%)	17 (12%)	3 (2%)	6	31
9	AL	125/128 (98%)	90 (72%)	26 (21%)	9 (7%)	1	5
9	CL	125/128 (98%)	86 (69%)	30 (24%)	9 (7%)	1	5
10	AM	97/105 (92%)	77 (79%)	17 (18%)	3 (3%)	4	23
10	CM	97/105 (92%)	79 (81%)	13 (13%)	5 (5%)	2	12
11	AN	117/129 (91%)	101 (86%)	11 (9%)	5 (4%)	2	15
11	CN	117/129 (91%)	97 (83%)	16 (14%)	4 (3%)	3	20
12	AO	123/132 (93%)	104 (85%)	7 (6%)	12 (10%)	0	2
12	CO	123/132 (93%)	96 (78%)	21 (17%)	6 (5%)	2	13
13	AP	114/126 (90%)	76 (67%)	26 (23%)	12 (10%)	0	2
13	CP	115/126 (91%)	83 (72%)	18 (16%)	14 (12%)	0	1
14	AQ	56/61 (92%)	37 (66%)	7 (12%)	12 (21%)	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
14	CQ	56/61 (92%)	39 (70%)	9 (16%)	8 (14%)	0	1
15	AR	86/89 (97%)	68 (79%)	14 (16%)	4 (5%)	2	14
15	CR	86/89 (97%)	82 (95%)	2 (2%)	2 (2%)	6	30
16	AS	82/88 (93%)	64 (78%)	13 (16%)	5 (6%)	1	8
16	CS	82/88 (93%)	72 (88%)	10 (12%)	0	100	100
17	AT	98/105 (93%)	83 (85%)	9 (9%)	6 (6%)	1	8
17	CT	98/105 (93%)	85 (87%)	10 (10%)	3 (3%)	4	23
18	AU	70/88 (80%)	53 (76%)	13 (19%)	4 (6%)	1	10
18	CU	70/88 (80%)	60 (86%)	7 (10%)	3 (4%)	2	15
19	AV	76/93 (82%)	56 (74%)	12 (16%)	8 (10%)	0	2
19	CV	76/93 (82%)	53 (70%)	16 (21%)	7 (9%)	1	3
20	AW	97/106 (92%)	75 (77%)	14 (14%)	8 (8%)	1	4
20	CW	97/106 (92%)	72 (74%)	16 (16%)	9 (9%)	0	3
21	AX	23/27 (85%)	19 (83%)	2 (9%)	2 (9%)	1	3
21	CX	23/27 (85%)	18 (78%)	2 (9%)	3 (13%)	0	1
27	BD	270/276 (98%)	227 (84%)	30 (11%)	13 (5%)	2	13
27	DD	270/276 (98%)	226 (84%)	32 (12%)	12 (4%)	2	15
28	BE	203/206 (98%)	146 (72%)	34 (17%)	23 (11%)	0	2
28	DE	203/206 (98%)	134 (66%)	40 (20%)	29 (14%)	0	1
29	BF	200/210 (95%)	177 (88%)	14 (7%)	9 (4%)	2	14
29	DF	206/210 (98%)	153 (74%)	30 (15%)	23 (11%)	0	2
30	BG	179/182 (98%)	139 (78%)	27 (15%)	13 (7%)	1	5
30	DG	179/182 (98%)	140 (78%)	28 (16%)	11 (6%)	1	8
31	BH	168/180 (93%)	113 (67%)	20 (12%)	35 (21%)	0	0
31	DH	168/180 (93%)	108 (64%)	36 (21%)	24 (14%)	0	1
32	BK	144/148 (97%)	90 (62%)	39 (27%)	15 (10%)	0	2
32	DK	144/148 (97%)	98 (68%)	36 (25%)	10 (7%)	1	6
33	BM	136/140 (97%)	107 (79%)	21 (15%)	8 (6%)	1	9
33	DM	136/140 (97%)	106 (78%)	16 (12%)	14 (10%)	0	2
34	BN	120/122 (98%)	114 (95%)	4 (3%)	2 (2%)	9	39
34	DN	120/122 (98%)	106 (88%)	10 (8%)	4 (3%)	4	21

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
35	BO	148/150 (99%)	99 (67%)	29 (20%)	20 (14%)	0	1
35	DO	148/150 (99%)	92 (62%)	25 (17%)	31 (21%)	0	0
36	BP	139/141 (99%)	102 (73%)	19 (14%)	18 (13%)	0	1
36	DP	139/141 (99%)	92 (66%)	31 (22%)	16 (12%)	0	2
37	B0	116/118 (98%)	97 (84%)	11 (10%)	8 (7%)	1	6
37	D0	115/118 (98%)	95 (83%)	15 (13%)	5 (4%)	2	15
38	BQ	109/112 (97%)	85 (78%)	17 (16%)	7 (6%)	1	7
38	DQ	109/112 (97%)	73 (67%)	26 (24%)	10 (9%)	1	3
39	BR	135/146 (92%)	105 (78%)	21 (16%)	9 (7%)	1	6
39	DR	135/146 (92%)	108 (80%)	18 (13%)	9 (7%)	1	6
40	B1	115/118 (98%)	102 (89%)	8 (7%)	5 (4%)	2	15
40	D1	115/118 (98%)	91 (79%)	18 (16%)	6 (5%)	2	12
41	B2	99/101 (98%)	81 (82%)	12 (12%)	6 (6%)	1	8
41	D2	99/101 (98%)	68 (69%)	17 (17%)	14 (14%)	0	1
42	BS	111/113 (98%)	92 (83%)	13 (12%)	6 (5%)	2	11
42	DS	111/113 (98%)	92 (83%)	15 (14%)	4 (4%)	3	19
43	BT	90/96 (94%)	81 (90%)	5 (6%)	4 (4%)	2	15
43	DT	90/96 (94%)	72 (80%)	13 (14%)	5 (6%)	2	10
44	BU	100/110 (91%)	65 (65%)	21 (21%)	14 (14%)	0	1
44	DU	100/110 (91%)	62 (62%)	19 (19%)	19 (19%)	0	0
45	BV	173/206 (84%)	112 (65%)	32 (18%)	29 (17%)	0	0
45	DV	177/206 (86%)	109 (62%)	39 (22%)	29 (16%)	0	1
46	B3	74/85 (87%)	65 (88%)	6 (8%)	3 (4%)	3	16
46	D3	75/85 (88%)	64 (85%)	8 (11%)	3 (4%)	3	17
47	BZ	95/98 (97%)	79 (83%)	12 (13%)	4 (4%)	3	16
47	DZ	95/98 (97%)	76 (80%)	11 (12%)	8 (8%)	1	4
48	BW	64/72 (89%)	53 (83%)	6 (9%)	5 (8%)	1	4
48	DW	64/72 (89%)	54 (84%)	6 (9%)	4 (6%)	1	7
49	BX	57/60 (95%)	51 (90%)	5 (9%)	1 (2%)	8	37
49	DX	57/60 (95%)	49 (86%)	5 (9%)	3 (5%)	2	11
50	B4	64/71 (90%)	36 (56%)	12 (19%)	16 (25%)	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
50	D4	61/71 (86%)	22 (36%)	22 (36%)	17 (28%)	0	0
51	B5	57/60 (95%)	44 (77%)	6 (10%)	7 (12%)	0	1
51	D5	57/60 (95%)	46 (81%)	8 (14%)	3 (5%)	2	11
52	B6	43/54 (80%)	24 (56%)	12 (28%)	7 (16%)	0	1
52	D6	43/54 (80%)	26 (60%)	8 (19%)	9 (21%)	0	0
53	B7	43/49 (88%)	42 (98%)	1 (2%)	0	100	100
53	D7	43/49 (88%)	42 (98%)	1 (2%)	0	100	100
54	B8	58/65 (89%)	42 (72%)	8 (14%)	8 (14%)	0	1
54	D8	58/65 (89%)	37 (64%)	13 (22%)	8 (14%)	0	1
All	All	11319/12052 (94%)	8735 (77%)	1671 (15%)	913 (8%)	1	4

5 of 913 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AE	195	ASP
2	AE	236	TYR
2	AE	237	ALA
3	AF	4	LYS
3	AF	12	LEU

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AE	205/220 (93%)	165 (80%)	40 (20%)	1	7
2	CE	205/220 (93%)	180 (88%)	25 (12%)	5	21
3	AF	159/188 (85%)	141 (89%)	18 (11%)	6	24
3	CF	160/188 (85%)	143 (89%)	17 (11%)	6	26
4	AG	180/180 (100%)	160 (89%)	20 (11%)	6	25
4	CG	180/180 (100%)	160 (89%)	20 (11%)	6	25
5	AH	116/123 (94%)	97 (84%)	19 (16%)	2	11

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	CH	116/123 (94%)	102 (88%)	14 (12%)	5	21
6	AI	90/90 (100%)	80 (89%)	10 (11%)	6	25
6	CI	90/90 (100%)	81 (90%)	9 (10%)	7	29
7	AJ	126/127 (99%)	106 (84%)	20 (16%)	2	12
7	CJ	126/127 (99%)	105 (83%)	21 (17%)	2	11
8	AK	119/119 (100%)	106 (89%)	13 (11%)	6	25
8	CK	119/119 (100%)	111 (93%)	8 (7%)	16	49
9	AL	98/99 (99%)	86 (88%)	12 (12%)	5	21
9	CL	98/99 (99%)	81 (83%)	17 (17%)	2	10
10	AM	89/92 (97%)	79 (89%)	10 (11%)	6	24
10	CM	89/92 (97%)	78 (88%)	11 (12%)	4	20
11	AN	90/99 (91%)	79 (88%)	11 (12%)	5	21
11	CN	90/99 (91%)	85 (94%)	5 (6%)	21	56
12	AO	104/109 (95%)	95 (91%)	9 (9%)	10	37
12	CO	104/109 (95%)	94 (90%)	10 (10%)	8	32
13	AP	94/101 (93%)	87 (93%)	7 (7%)	13	44
13	CP	94/101 (93%)	83 (88%)	11 (12%)	5	22
14	AQ	48/50 (96%)	42 (88%)	6 (12%)	4	20
14	CQ	48/50 (96%)	44 (92%)	4 (8%)	11	39
15	AR	79/80 (99%)	73 (92%)	6 (8%)	13	43
15	CR	79/80 (99%)	67 (85%)	12 (15%)	3	14
16	AS	72/74 (97%)	68 (94%)	4 (6%)	21	56
16	CS	72/74 (97%)	64 (89%)	8 (11%)	6	25
17	AT	95/97 (98%)	85 (90%)	10 (10%)	7	27
17	CT	95/97 (98%)	92 (97%)	3 (3%)	39	74
18	AU	63/77 (82%)	57 (90%)	6 (10%)	8	32
18	CU	63/77 (82%)	51 (81%)	12 (19%)	1	8
19	AV	67/80 (84%)	55 (82%)	12 (18%)	2	9
19	CV	67/80 (84%)	58 (87%)	9 (13%)	4	17
20	AW	76/82 (93%)	68 (90%)	8 (10%)	7	27
20	CW	76/82 (93%)	66 (87%)	10 (13%)	4	18

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
21	AX	20/22 (91%)	20 (100%)	0	100	100
21	CX	20/22 (91%)	20 (100%)	0	100	100
27	BD	214/218 (98%)	178 (83%)	36 (17%)	2	11
27	DD	214/218 (98%)	181 (85%)	33 (15%)	2	13
28	BE	165/166 (99%)	135 (82%)	30 (18%)	1	9
28	DE	165/166 (99%)	139 (84%)	26 (16%)	2	12
29	BF	161/166 (97%)	141 (88%)	20 (12%)	4	20
29	DF	165/166 (99%)	140 (85%)	25 (15%)	3	14
30	BG	155/156 (99%)	135 (87%)	20 (13%)	4	19
30	DG	155/156 (99%)	139 (90%)	16 (10%)	7	28
31	BH	142/148 (96%)	122 (86%)	20 (14%)	3	16
31	DH	142/148 (96%)	124 (87%)	18 (13%)	4	19
32	BK	122/124 (98%)	101 (83%)	21 (17%)	2	10
32	DK	122/124 (98%)	106 (87%)	16 (13%)	4	18
33	BM	117/119 (98%)	98 (84%)	19 (16%)	2	12
33	DM	117/119 (98%)	97 (83%)	20 (17%)	2	10
34	BN	100/100 (100%)	92 (92%)	8 (8%)	12	40
34	DN	100/100 (100%)	87 (87%)	13 (13%)	4	19
35	BO	116/116 (100%)	84 (72%)	32 (28%)	0	2
35	DO	116/116 (100%)	80 (69%)	36 (31%)	0	1
36	BP	111/111 (100%)	94 (85%)	17 (15%)	2	13
36	DP	111/111 (100%)	89 (80%)	22 (20%)	1	7
37	B0	101/101 (100%)	85 (84%)	16 (16%)	2	12
37	D0	100/101 (99%)	82 (82%)	18 (18%)	1	9
38	BQ	87/88 (99%)	73 (84%)	14 (16%)	2	12
38	DQ	87/88 (99%)	79 (91%)	8 (9%)	9	34
39	BR	120/127 (94%)	99 (82%)	21 (18%)	2	10
39	DR	120/127 (94%)	102 (85%)	18 (15%)	3	14
40	B1	93/94 (99%)	85 (91%)	8 (9%)	10	37
40	D1	93/94 (99%)	82 (88%)	11 (12%)	5	22
41	B2	82/82 (100%)	70 (85%)	12 (15%)	3	15

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
41	D2	82/82 (100%)	69 (84%)	13 (16%)	2	12
42	BS	92/92 (100%)	79 (86%)	13 (14%)	3	16
42	DS	92/92 (100%)	76 (83%)	16 (17%)	2	10
43	BT	74/78 (95%)	65 (88%)	9 (12%)	5	21
43	DT	74/78 (95%)	63 (85%)	11 (15%)	3	14
44	BU	85/91 (93%)	72 (85%)	13 (15%)	2	13
44	DU	85/91 (93%)	67 (79%)	18 (21%)	1	5
45	BV	154/179 (86%)	126 (82%)	28 (18%)	1	9
45	DV	158/179 (88%)	138 (87%)	20 (13%)	4	19
46	B3	61/67 (91%)	57 (93%)	4 (7%)	16	49
46	D3	62/67 (92%)	55 (89%)	7 (11%)	6	24
47	BZ	82/83 (99%)	69 (84%)	13 (16%)	2	12
47	DZ	82/83 (99%)	68 (83%)	14 (17%)	2	10
48	BW	62/67 (92%)	51 (82%)	11 (18%)	2	9
48	DW	62/67 (92%)	51 (82%)	11 (18%)	2	9
49	BX	51/52 (98%)	46 (90%)	5 (10%)	8	30
49	DX	51/52 (98%)	48 (94%)	3 (6%)	19	54
50	B4	59/63 (94%)	49 (83%)	10 (17%)	2	11
50	D4	57/63 (90%)	46 (81%)	11 (19%)	1	8
51	B5	51/52 (98%)	42 (82%)	9 (18%)	2	10
51	D5	51/52 (98%)	41 (80%)	10 (20%)	1	7
52	B6	44/52 (85%)	34 (77%)	10 (23%)	1	4
52	D6	44/52 (85%)	40 (91%)	4 (9%)	9	34
53	B7	38/42 (90%)	33 (87%)	5 (13%)	4	18
53	D7	38/42 (90%)	33 (87%)	5 (13%)	4	18
54	B8	50/55 (91%)	37 (74%)	13 (26%)	0	2
54	D8	50/55 (91%)	41 (82%)	9 (18%)	1	9
All	All	9565/9996 (96%)	8229 (86%)	1336 (14%)	3	16

5 of 1336 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
47	BZ	26	ARG

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
5	CH	75	THR
44	DU	64	GLU
48	BW	50	ILE
2	CE	5	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 282 such sidechains are listed below:

Mol	Chain	Res	Type
47	BZ	56	GLN
5	CH	141	GLN
45	DV	75	ASN
49	BX	19	GLN
54	B8	31	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1501/1506 (99%)	295 (19%)	43 (2%)
1	CA	1501/1506 (99%)	296 (19%)	49 (3%)
22	AB	83/85 (97%)	38 (45%)	8 (9%)
22	AD	83/85 (97%)	26 (31%)	5 (6%)
22	CB	83/85 (97%)	38 (45%)	9 (10%)
22	CD	83/85 (97%)	25 (30%)	4 (4%)
23	AC	76/77 (98%)	11 (14%)	1 (1%)
23	CC	76/77 (98%)	13 (17%)	3 (3%)
24	A1	15/16 (93%)	6 (40%)	2 (13%)
24	C1	15/16 (93%)	6 (40%)	3 (20%)
25	BA	2911/2912 (99%)	542 (18%)	51 (1%)
25	DA	2905/2912 (99%)	569 (19%)	53 (1%)
26	BB	121/122 (99%)	17 (14%)	0
26	DB	121/122 (99%)	27 (22%)	1 (0%)
All	All	9574/9606 (99%)	1909 (19%)	232 (2%)

5 of 1909 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	8	A
1	AA	9	G
1	AA	13	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	AA	32	A

5 of 232 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
25	BA	2566	A
1	CA	509	A
25	DA	2211	G
25	BA	2689	U
1	CA	201	C

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

4 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
22	MIA	CB	38	22	24,31,32	1.96	2 (8%)	26,44,47	2.38	9 (34%)
22	MIA	AB	38	22	24,31,32	1.83	2 (8%)	26,44,47	2.35	10 (38%)
22	MIA	AD	38	22	24,31,32	1.89	2 (8%)	26,44,47	2.74	10 (38%)
22	MIA	CD	38	22	24,31,32	1.91	2 (8%)	26,44,47	2.79	10 (38%)

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
22	MIA	CB	38	22	-	4/11/33/34	0/3/3/3
22	MIA	AB	38	22	-	4/11/33/34	0/3/3/3
22	MIA	AD	38	22	-	8/11/33/34	0/3/3/3
22	MIA	CD	38	22	-	7/11/33/34	0/3/3/3

The worst 5 of 8 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	CB	38	MIA	C6-N6	6.56	1.46	1.34
22	CB	38	MIA	C13-C14	6.35	1.50	1.32
22	CD	38	MIA	C6-N6	6.28	1.46	1.34
22	AD	38	MIA	C6-N6	6.19	1.45	1.34
22	CD	38	MIA	C13-C14	6.12	1.49	1.32

The worst 5 of 39 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	CD	38	MIA	C11-S10-C2	10.19	109.88	102.27
22	AD	38	MIA	C11-S10-C2	9.70	109.51	102.27
22	CB	38	MIA	C11-S10-C2	7.57	107.92	102.27
22	AB	38	MIA	C11-S10-C2	5.97	106.72	102.27
22	AB	38	MIA	C12-C13-C14	-5.85	115.77	127.14

There are no chirality outliers.

5 of 23 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	CB	38	MIA	N1-C2-S10-C11
22	CB	38	MIA	N3-C2-S10-C11
22	CB	38	MIA	C12-C13-C14-C15
22	CB	38	MIA	C12-C13-C14-C16
22	AB	38	MIA	N1-C2-S10-C11

There are no ring outliers.

4 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	CB	38	MIA	3	0
22	AB	38	MIA	1	0
22	AD	38	MIA	3	0
22	CD	38	MIA	4	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry

Of 1608 ligands modelled in this entry, 1608 are monoatomic - leaving 0 for Mogul analysis.

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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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	AA	1502/1506 (99%)	-0.36	5 (0%) 94 84	54, 99, 183, 246	0
1	CA	1502/1506 (99%)	-0.28	13 (0%) 84 63	59, 100, 182, 245	0
2	AE	237/256 (92%)	0.24	11 (4%) 32 12	98, 139, 177, 190	0
2	CE	237/256 (92%)	0.57	15 (6%) 20 6	106, 152, 189, 209	0
3	AF	205/239 (85%)	0.29	7 (3%) 45 19	88, 113, 149, 158	0
3	CF	206/239 (86%)	1.03	33 (16%) 1 1	101, 135, 165, 180	0
4	AG	208/208 (100%)	-0.32	1 (0%) 91 75	81, 107, 131, 143	0
4	CG	208/208 (100%)	0.24	3 (1%) 75 49	75, 95, 123, 135	0
5	AH	151/162 (93%)	0.01	2 (1%) 77 51	78, 99, 125, 164	0
5	CH	151/162 (93%)	0.19	2 (1%) 77 51	84, 106, 131, 167	0
6	AI	101/101 (100%)	0.44	5 (4%) 28 10	67, 99, 115, 141	0
6	CI	101/101 (100%)	-0.07	0 100 100	76, 96, 115, 153	0
7	AJ	155/156 (99%)	0.40	12 (7%) 13 4	96, 114, 143, 161	0
7	CJ	155/156 (99%)	0.05	6 (3%) 39 15	100, 119, 147, 158	0
8	AK	138/138 (100%)	-0.28	0 100 100	81, 103, 117, 132	0
8	CK	138/138 (100%)	0.02	1 (0%) 87 69	81, 109, 125, 136	0
9	AL	127/128 (99%)	0.51	13 (10%) 6 2	83, 138, 159, 166	0
9	CL	127/128 (99%)	0.09	6 (4%) 31 11	95, 147, 165, 171	0
10	AM	99/105 (94%)	0.77	14 (14%) 2 1	81, 140, 167, 178	0
10	CM	99/105 (94%)	0.83	12 (12%) 4 1	103, 154, 174, 180	0
11	AN	119/129 (92%)	0.77	13 (10%) 5 2	62, 95, 130, 161	0
11	CN	119/129 (92%)	0.21	2 (1%) 70 41	74, 99, 133, 164	0
12	AO	125/132 (94%)	-0.22	1 (0%) 86 65	59, 75, 107, 162	0
12	CO	125/132 (94%)	0.62	14 (11%) 5 1	63, 91, 126, 166	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AP	116/126 (92%)	0.23	6 (5%) 27 10	75, 124, 143, 155	0
13	CP	117/126 (92%)	0.19	7 (5%) 21 7	91, 145, 161, 169	0
14	AQ	58/61 (95%)	-0.15	0 100 100	87, 103, 120, 127	0
14	CQ	58/61 (95%)	1.17	9 (15%) 2 1	108, 125, 150, 154	0
15	AR	88/89 (98%)	-0.14	0 100 100	70, 94, 116, 120	0
15	CR	88/89 (98%)	-0.06	0 100 100	67, 96, 124, 136	0
16	AS	84/88 (95%)	-0.36	0 100 100	87, 109, 134, 174	0
16	CS	84/88 (95%)	0.32	2 (2%) 59 30	76, 91, 118, 157	0
17	AT	100/105 (95%)	-0.35	2 (2%) 65 36	80, 102, 118, 129	0
17	CT	100/105 (95%)	0.03	2 (2%) 65 36	75, 100, 126, 144	0
18	AU	72/88 (81%)	0.56	5 (6%) 16 5	77, 97, 135, 164	0
18	CU	72/88 (81%)	0.17	2 (2%) 53 25	85, 103, 149, 172	0
19	AV	78/93 (83%)	0.12	1 (1%) 77 51	97, 120, 145, 156	0
19	CV	78/93 (83%)	0.55	5 (6%) 19 6	128, 152, 178, 186	0
20	AW	99/106 (93%)	-0.17	0 100 100	97, 121, 148, 153	0
20	CW	99/106 (93%)	0.21	2 (2%) 65 36	86, 106, 141, 153	0
21	AX	25/27 (92%)	0.21	1 (4%) 38 15	97, 107, 121, 153	0
21	CX	25/27 (92%)	0.78	2 (8%) 12 4	101, 129, 150, 171	0
22	AB	84/85 (98%)	0.73	13 (15%) 2 1	76, 148, 167, 178	0
22	AD	84/85 (98%)	0.30	11 (13%) 3 1	70, 147, 206, 218	0
22	CB	84/85 (98%)	1.60	30 (35%) 0 0	92, 155, 171, 179	0
22	CD	84/85 (98%)	-0.64	0 100 100	74, 147, 207, 212	0
23	AC	77/77 (100%)	-0.42	0 100 100	66, 91, 135, 155	0
23	CC	77/77 (100%)	-0.59	0 100 100	79, 104, 143, 165	0
24	A1	16/16 (100%)	-0.21	0 100 100	66, 97, 168, 177	0
24	C1	16/16 (100%)	-0.18	0 100 100	75, 107, 176, 183	0
25	BA	2912/2912 (100%)	-0.04	42 (1%) 75 49	39, 68, 206, 243	0
25	DA	2907/2912 (99%)	-0.18	66 (2%) 60 31	49, 82, 226, 247	0
26	BB	122/122 (100%)	-0.27	1 (0%) 86 65	65, 92, 113, 183	0
26	DB	122/122 (100%)	-0.46	2 (1%) 72 44	78, 110, 139, 198	0
27	BD	272/276 (98%)	0.03	0 100 100	39, 59, 82, 104	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	DD	272/276 (98%)	-0.08	1 (0%) 92 79	45, 67, 87, 120	0
28	BE	205/206 (99%)	0.11	5 (2%) 59 30	44, 77, 125, 150	0
28	DE	205/206 (99%)	0.07	9 (4%) 34 13	56, 93, 144, 157	0
29	BF	202/210 (96%)	0.08	2 (0%) 82 59	42, 75, 110, 127	0
29	DF	208/210 (99%)	0.84	22 (10%) 6 2	53, 93, 155, 185	0
30	BG	181/182 (99%)	0.94	34 (18%) 1 0	79, 105, 136, 146	0
30	DG	181/182 (99%)	0.37	8 (4%) 34 13	96, 128, 157, 168	0
31	BH	170/180 (94%)	0.13	4 (2%) 59 30	71, 105, 126, 151	0
31	DH	170/180 (94%)	1.56	56 (32%) 0 0	143, 193, 217, 231	0
32	BK	146/148 (98%)	0.46	8 (5%) 25 9	72, 120, 141, 153	0
32	DK	146/148 (98%)	-0.20	1 (0%) 87 69	73, 120, 147, 151	0
33	BM	138/140 (98%)	0.08	2 (1%) 75 49	58, 79, 115, 136	0
33	DM	138/140 (98%)	0.12	2 (1%) 75 49	72, 104, 137, 147	0
34	BN	122/122 (100%)	-0.07	0 100 100	55, 71, 87, 93	0
34	DN	122/122 (100%)	0.04	0 100 100	66, 85, 103, 110	0
35	BO	150/150 (100%)	0.32	7 (4%) 31 11	45, 82, 109, 167	0
35	DO	150/150 (100%)	0.85	22 (14%) 2 1	45, 93, 136, 174	0
36	BP	141/141 (100%)	0.17	5 (3%) 44 18	55, 77, 105, 140	0
36	DP	141/141 (100%)	0.43	14 (9%) 7 2	58, 100, 130, 154	0
37	B0	118/118 (100%)	0.01	0 100 100	53, 74, 96, 106	0
37	D0	117/118 (99%)	0.03	1 (0%) 84 63	62, 81, 100, 117	0
38	BQ	111/112 (99%)	0.73	10 (9%) 9 3	71, 91, 116, 130	0
38	DQ	111/112 (99%)	0.24	6 (5%) 25 9	73, 109, 135, 157	0
39	BR	137/146 (93%)	0.15	4 (2%) 51 23	66, 85, 135, 167	0
39	DR	137/146 (93%)	0.07	3 (2%) 62 33	73, 94, 154, 184	0
40	B1	117/118 (99%)	0.00	2 (1%) 70 41	50, 70, 98, 140	0
40	D1	117/118 (99%)	0.49	9 (7%) 13 4	60, 99, 137, 155	0
41	B2	101/101 (100%)	0.08	3 (2%) 50 22	46, 91, 116, 128	0
41	D2	101/101 (100%)	0.97	14 (13%) 2 1	63, 122, 139, 150	0
42	BS	113/113 (100%)	-0.04	1 (0%) 84 63	44, 67, 99, 152	0
42	DS	113/113 (100%)	0.16	2 (1%) 68 40	61, 75, 109, 161	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BT	92/96 (95%)	0.35	3 (3%) 46 20	54, 69, 95, 112	0
43	DT	92/96 (95%)	0.22	3 (3%) 46 20	65, 81, 109, 122	0
44	BU	102/110 (92%)	0.48	5 (4%) 29 11	70, 94, 144, 165	0
44	DU	102/110 (92%)	1.47	27 (26%) 0 0	78, 111, 162, 172	0
45	BV	175/206 (84%)	1.29	37 (21%) 1 0	79, 120, 189, 194	0
45	DV	179/206 (86%)	1.88	65 (36%) 0 0	111, 152, 207, 219	0
46	B3	76/85 (89%)	0.16	2 (2%) 56 27	51, 72, 92, 125	0
46	D3	77/85 (90%)	-0.04	1 (1%) 77 51	64, 87, 110, 151	0
47	BZ	97/98 (98%)	0.44	8 (8%) 11 3	48, 71, 115, 155	0
47	DZ	97/98 (98%)	-0.07	2 (2%) 63 34	54, 74, 126, 152	0
48	BW	66/72 (91%)	0.35	2 (3%) 50 22	59, 79, 95, 127	0
48	DW	66/72 (91%)	0.40	2 (3%) 50 22	75, 99, 121, 134	0
49	BX	59/60 (98%)	-0.03	0 100 100	61, 77, 112, 131	0
49	DX	59/60 (98%)	0.58	4 (6%) 17 5	76, 103, 136, 159	0
50	B4	66/71 (92%)	2.42	38 (57%) 0 0	112, 153, 176, 181	0
50	D4	63/71 (88%)	1.98	30 (47%) 0 0	141, 181, 191, 201	0
51	B5	59/60 (98%)	0.38	6 (10%) 6 2	43, 81, 156, 165	0
51	D5	59/60 (98%)	0.82	8 (13%) 3 1	61, 84, 169, 188	0
52	B6	45/54 (83%)	5.94	44 (97%) 0 0	117, 148, 164, 173	0
52	D6	45/54 (83%)	2.59	24 (53%) 0 0	131, 164, 181, 185	0
53	B7	45/49 (91%)	-0.03	0 100 100	38, 48, 68, 85	0
53	D7	45/49 (91%)	0.00	0 100 100	52, 59, 74, 94	0
54	B8	60/65 (92%)	0.35	2 (3%) 46 20	51, 68, 88, 115	0
54	D8	60/65 (92%)	0.34	3 (5%) 28 10	64, 80, 106, 132	0
All	All	21100/21658 (97%)	0.13	975 (4%) 32 12	38, 95, 177, 247	0

The worst 5 of 975 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
25	DA	654(J)	A	19.6
29	DF	1	MET	18.4
25	DA	654(L)	G	15.7
25	BA	654(J)	A	14.8
25	DA	654(K)	C	14.1

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
22	MIA	AD	38	29/30	0.92	0.18	98,122,141,145	0
22	MIA	CB	38	29/30	0.94	0.19	63,95,112,126	0
22	MIA	CD	38	29/30	0.94	0.21	101,121,146,154	0
22	MIA	AB	38	29/30	0.96	0.18	65,78,90,93	0

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	3229	1/1	-0.26	0.38	118,118,118,118	0
55	MG	AA	1758	1/1	-0.20	0.45	165,165,165,165	0
55	MG	DA	3407	1/1	-0.02	0.23	103,103,103,103	0
55	MG	CA	1786	1/1	0.06	0.27	111,111,111,111	0
55	MG	AD	101	1/1	0.09	0.32	154,154,154,154	0
55	MG	BA	3380	1/1	0.12	0.43	98,98,98,98	0
55	MG	CA	1803	1/1	0.19	0.24	103,103,103,103	0
55	MG	AA	1788	1/1	0.26	0.27	98,98,98,98	0
55	MG	DA	3176	1/1	0.30	0.54	105,105,105,105	0
55	MG	D1	201	1/1	0.31	0.26	89,89,89,89	0
55	MG	DA	3397	1/1	0.35	0.19	105,105,105,105	0
55	MG	AA	1643	1/1	0.42	0.53	127,127,127,127	0
55	MG	CA	1816	1/1	0.44	0.31	102,102,102,102	0
55	MG	DA	3330	1/1	0.45	0.65	100,100,100,100	0
55	MG	AA	1666	1/1	0.47	0.43	103,103,103,103	0
55	MG	CA	1806	1/1	0.47	0.27	103,103,103,103	0
55	MG	BA	3503	1/1	0.48	0.46	111,111,111,111	0
55	MG	AA	1735	1/1	0.49	0.20	102,102,102,102	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	DA	3417	1/1	0.49	0.34	135,135,135,135	0
55	MG	CA	1697	1/1	0.50	0.16	84,84,84,84	0
55	MG	AA	1689	1/1	0.51	0.32	107,107,107,107	0
55	MG	CA	1733	1/1	0.51	0.37	103,103,103,103	0
55	MG	AA	1783	1/1	0.51	0.36	167,167,167,167	0
55	MG	BA	3436	1/1	0.53	0.18	107,107,107,107	0
55	MG	DA	3189	1/1	0.54	0.18	86,86,86,86	0
55	MG	DA	3462	1/1	0.56	0.23	98,98,98,98	0
55	MG	BA	3331	1/1	0.57	0.30	106,106,106,106	0
55	MG	CA	1644	1/1	0.57	0.17	101,101,101,101	0
55	MG	DA	3344	1/1	0.59	0.26	89,89,89,89	0
55	MG	BA	3079	1/1	0.60	0.27	103,103,103,103	0
55	MG	BA	3462	1/1	0.60	0.21	116,116,116,116	0
55	MG	DA	3410	1/1	0.60	0.31	103,103,103,103	0
55	MG	DA	3199	1/1	0.61	0.16	85,85,85,85	0
55	MG	BA	3314	1/1	0.61	0.23	83,83,83,83	0
55	MG	AA	1781	1/1	0.61	0.37	87,87,87,87	0
55	MG	CA	1804	1/1	0.62	0.40	108,108,108,108	0
55	MG	CA	1683	1/1	0.63	0.30	121,121,121,121	0
55	MG	BA	3544	1/1	0.64	0.33	82,82,82,82	0
55	MG	BA	3413	1/1	0.64	0.44	83,83,83,83	0
55	MG	AA	1618	1/1	0.64	0.22	91,91,91,91	0
55	MG	BA	3546	1/1	0.64	0.47	101,101,101,101	0
55	MG	BA	3382	1/1	0.67	0.53	93,93,93,93	0
55	MG	AA	1715	1/1	0.67	0.37	101,101,101,101	0
55	MG	BA	3463	1/1	0.67	0.80	101,101,101,101	0
55	MG	BA	3358	1/1	0.67	0.34	98,98,98,98	0
55	MG	BA	3224	1/1	0.69	0.32	78,78,78,78	0
55	MG	DA	3125	1/1	0.69	0.40	74,74,74,74	0
55	MG	AA	1686	1/1	0.70	0.18	91,91,91,91	0
55	MG	DO	201	1/1	0.71	0.15	98,98,98,98	0
55	MG	CA	1727	1/1	0.71	0.12	84,84,84,84	0
55	MG	AA	1802	1/1	0.71	0.21	75,75,75,75	0
55	MG	AA	1726	1/1	0.71	0.45	94,94,94,94	0
55	MG	AA	1611	1/1	0.71	0.27	94,94,94,94	0
55	MG	AA	1754	1/1	0.72	0.38	95,95,95,95	0
55	MG	CA	1669	1/1	0.72	0.28	85,85,85,85	0
55	MG	DA	3476	1/1	0.73	0.23	104,104,104,104	0
55	MG	DA	3275	1/1	0.73	0.21	85,85,85,85	0
55	MG	AA	1777	1/1	0.73	0.27	115,115,115,115	0
55	MG	BA	3428	1/1	0.74	0.40	91,91,91,91	0
55	MG	BA	3271	1/1	0.74	0.20	92,92,92,92	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3482	1/1	0.74	0.17	82,82,82,82	0
55	MG	DA	3222	1/1	0.74	0.16	75,75,75,75	0
55	MG	DA	3187	1/1	0.75	0.30	101,101,101,101	0
55	MG	CA	1759	1/1	0.75	0.51	99,99,99,99	0
55	MG	DA	3294	1/1	0.76	0.38	91,91,91,91	0
55	MG	CR	101	1/1	0.76	0.68	135,135,135,135	0
55	MG	DA	3343	1/1	0.76	0.34	91,91,91,91	0
55	MG	BA	3349	1/1	0.76	0.34	80,80,80,80	0
55	MG	CA	1722	1/1	0.76	0.61	106,106,106,106	0
55	MG	BA	3438	1/1	0.77	0.51	84,84,84,84	0
55	MG	BA	3425	1/1	0.77	0.24	87,87,87,87	0
55	MG	BA	3430	1/1	0.77	0.27	105,105,105,105	0
55	MG	DA	3246	1/1	0.77	0.28	89,89,89,89	0
55	MG	BB	203	1/1	0.77	0.43	71,71,71,71	0
55	MG	AA	1751	1/1	0.78	0.30	105,105,105,105	0
55	MG	BA	3066	1/1	0.78	0.20	99,99,99,99	0
55	MG	AA	1625	1/1	0.78	0.28	68,68,68,68	0
55	MG	BA	3132	1/1	0.79	0.21	76,76,76,76	0
55	MG	BA	3293	1/1	0.79	0.35	96,96,96,96	0
55	MG	BA	3203	1/1	0.79	0.23	106,106,106,106	0
55	MG	CA	1743	1/1	0.79	0.28	106,106,106,106	0
55	MG	DA	3262	1/1	0.79	0.68	99,99,99,99	0
55	MG	BA	3558	1/1	0.79	0.34	85,85,85,85	0
55	MG	AA	1671	1/1	0.80	0.20	95,95,95,95	0
55	MG	BA	3258	1/1	0.81	0.47	76,76,76,76	0
55	MG	BA	3320	1/1	0.81	0.42	85,85,85,85	0
55	MG	CA	1713	1/1	0.82	0.22	82,82,82,82	0
55	MG	BA	3009	1/1	0.83	0.32	58,58,58,58	0
55	MG	CA	1674	1/1	0.83	0.36	88,88,88,88	0
55	MG	AG	302	1/1	0.83	0.34	109,109,109,109	0
55	MG	BA	3347	1/1	0.83	0.61	79,79,79,79	0
55	MG	DA	3379	1/1	0.83	0.25	87,87,87,87	0
55	MG	CA	1756	1/1	0.83	0.29	83,83,83,83	0
55	MG	AA	1657	1/1	0.83	0.35	76,76,76,76	0
55	MG	AA	1694	1/1	0.83	0.20	142,142,142,142	0
55	MG	AA	1615	1/1	0.83	0.30	90,90,90,90	0
55	MG	AA	1786	1/1	0.84	0.28	89,89,89,89	0
55	MG	BA	3317	1/1	0.84	0.43	70,70,70,70	0
55	MG	DA	3171	1/1	0.84	0.16	73,73,73,73	0
55	MG	DA	3295	1/1	0.84	0.35	76,76,76,76	0
55	MG	BA	3296	1/1	0.84	0.36	60,60,60,60	0
55	MG	BA	3232	1/1	0.85	0.22	57,57,57,57	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3092	1/1	0.85	0.31	67,67,67,67	0
55	MG	DA	3089	1/1	0.85	0.43	60,60,60,60	0
55	MG	BA	3040	1/1	0.85	0.37	74,74,74,74	0
55	MG	AA	1756	1/1	0.85	0.26	85,85,85,85	0
55	MG	BB	209	1/1	0.86	0.18	96,96,96,96	0
55	MG	DA	3483	1/1	0.86	0.41	82,82,82,82	0
55	MG	BA	3306	1/1	0.86	0.30	84,84,84,84	0
55	MG	CA	1652	1/1	0.86	0.13	94,94,94,94	0
55	MG	DA	3357	1/1	0.87	0.16	87,87,87,87	0
55	MG	BA	3415	1/1	0.87	0.21	65,65,65,65	0
55	MG	DA	3324	1/1	0.87	0.19	91,91,91,91	0
55	MG	DA	3349	1/1	0.87	0.24	78,78,78,78	0
55	MG	DA	3373	1/1	0.87	0.45	88,88,88,88	0
55	MG	BA	3548	1/1	0.87	0.35	95,95,95,95	0
55	MG	DA	3232	1/1	0.87	0.13	56,56,56,56	0
55	MG	DA	3254	1/1	0.87	0.15	80,80,80,80	0
55	MG	BA	3340	1/1	0.88	0.37	69,69,69,69	0
55	MG	DA	3304	1/1	0.88	0.12	77,77,77,77	0
55	MG	CA	1739	1/1	0.88	0.23	80,80,80,80	0
55	MG	AA	1820	1/1	0.88	0.12	82,82,82,82	0
55	MG	AC	104	1/1	0.88	0.38	64,64,64,64	0
55	MG	BA	3031	1/1	0.88	0.39	54,54,54,54	0
55	MG	AA	1725	1/1	0.88	0.31	100,100,100,100	0
55	MG	BO	201	1/1	0.89	0.12	78,78,78,78	0
55	MG	AA	1681	1/1	0.89	0.39	72,72,72,72	0
55	MG	BA	3326	1/1	0.89	0.32	67,67,67,67	0
55	MG	AA	1684	1/1	0.89	0.32	83,83,83,83	0
55	MG	AA	1661	1/1	0.89	0.35	56,56,56,56	0
55	MG	CA	1670	1/1	0.89	0.40	67,67,67,67	0
55	MG	BA	3528	1/1	0.89	0.38	32,32,32,32	0
55	MG	DA	3381	1/1	0.89	0.24	90,90,90,90	0
55	MG	DA	3168	1/1	0.89	0.40	87,87,87,87	0
55	MG	BA	3063	1/1	0.89	0.19	80,80,80,80	0
55	MG	DA	3312	1/1	0.89	0.33	75,75,75,75	0
55	MG	AA	1771	1/1	0.89	0.47	108,108,108,108	0
55	MG	BA	3134	1/1	0.90	0.33	59,59,59,59	0
55	MG	DA	3186	1/1	0.90	0.27	60,60,60,60	0
55	MG	BA	3530	1/1	0.90	0.31	71,71,71,71	0
55	MG	DA	3438	1/1	0.90	0.35	79,79,79,79	0
55	MG	CA	1811	1/1	0.90	0.35	69,69,69,69	0
55	MG	CA	1609	1/1	0.90	0.34	71,71,71,71	0
55	MG	BA	3469	1/1	0.90	0.36	124,124,124,124	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1715	1/1	0.90	0.30	89,89,89,89	0
55	MG	BA	3524	1/1	0.90	0.34	43,43,43,43	0
55	MG	BA	3454	1/1	0.90	0.54	80,80,80,80	0
55	MG	DA	3073	1/1	0.90	0.30	84,84,84,84	0
55	MG	DA	3301	1/1	0.90	0.31	90,90,90,90	0
55	MG	BA	3564	1/1	0.91	0.24	112,112,112,112	0
55	MG	AC	103	1/1	0.91	0.35	66,66,66,66	0
55	MG	BA	3212	1/1	0.91	0.34	68,68,68,68	0
55	MG	AA	1796	1/1	0.91	0.42	102,102,102,102	0
55	MG	AA	1651	1/1	0.91	0.47	79,79,79,79	0
55	MG	AA	1664	1/1	0.91	0.21	53,53,53,53	0
55	MG	BA	3181	1/1	0.91	0.31	69,69,69,69	0
55	MG	AA	1807	1/1	0.91	0.24	88,88,88,88	0
55	MG	CA	1605	1/1	0.91	0.18	90,90,90,90	0
55	MG	AA	1707	1/1	0.91	0.18	81,81,81,81	0
55	MG	BA	3303	1/1	0.92	0.39	73,73,73,73	0
55	MG	AA	1714	1/1	0.92	0.23	89,89,89,89	0
55	MG	DA	3181	1/1	0.92	0.16	50,50,50,50	0
55	MG	AA	1663	1/1	0.92	0.36	72,72,72,72	0
55	MG	BA	3013	1/1	0.92	0.30	52,52,52,52	0
55	MG	CA	1689	1/1	0.92	0.32	73,73,73,73	0
55	MG	BA	3319	1/1	0.93	0.54	64,64,64,64	0
55	MG	BA	3283	1/1	0.93	0.26	56,56,56,56	0
55	MG	BA	3096	1/1	0.93	0.43	63,63,63,63	0
55	MG	BA	3174	1/1	0.93	0.38	46,46,46,46	0
55	MG	CA	1619	1/1	0.93	0.12	68,68,68,68	0
55	MG	BA	3046	1/1	0.93	0.38	56,56,56,56	0
55	MG	BA	3099	1/1	0.93	0.23	75,75,75,75	0
55	MG	BA	3193	1/1	0.93	0.13	46,46,46,46	0
55	MG	CA	1623	1/1	0.93	0.35	75,75,75,75	0
55	MG	CA	1645	1/1	0.94	0.25	84,84,84,84	0
55	MG	CA	1639	1/1	0.94	0.38	59,59,59,59	0
55	MG	DA	3019	1/1	0.94	0.26	79,79,79,79	0
55	MG	AA	1632	1/1	0.94	0.23	55,55,55,55	0
55	MG	BA	3035	1/1	0.94	0.42	61,61,61,61	0
55	MG	AA	1811	1/1	0.94	0.47	65,65,65,65	0
55	MG	BA	3118	1/1	0.94	0.41	49,49,49,49	0
55	MG	BA	3226	1/1	0.94	0.18	69,69,69,69	0
55	MG	CA	1695	1/1	0.94	0.30	69,69,69,69	0
55	MG	CA	1643	1/1	0.94	0.37	80,80,80,80	0
55	MG	BA	3515	1/1	0.94	0.20	81,81,81,81	0
55	MG	BA	3020	1/1	0.95	0.30	29,29,29,29	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	3198	1/1	0.95	0.35	48,48,48,48	0
55	MG	AA	1622	1/1	0.95	0.22	87,87,87,87	0
55	MG	AA	1619	1/1	0.95	0.38	58,58,58,58	0
55	MG	CA	1663	1/1	0.95	0.45	80,80,80,80	0
55	MG	DA	3174	1/1	0.95	0.38	63,63,63,63	0
55	MG	AA	1634	1/1	0.95	0.34	67,67,67,67	0
55	MG	BA	3187	1/1	0.95	0.51	73,73,73,73	0
55	MG	AC	101	1/1	0.95	0.30	55,55,55,55	0
55	MG	BA	3476	1/1	0.95	0.41	47,47,47,47	0
55	MG	DE	301	1/1	0.95	0.28	59,59,59,59	0
55	MG	BA	3190	1/1	0.95	0.36	86,86,86,86	0
55	MG	BA	3030	1/1	0.96	0.35	41,41,41,41	0
55	MG	CA	1603	1/1	0.96	0.30	60,60,60,60	0
55	MG	BA	3539	1/1	0.96	0.25	35,35,35,35	0
55	MG	DA	3023	1/1	0.96	0.10	47,47,47,47	0
55	MG	BA	3025	1/1	0.96	0.46	46,46,46,46	0
55	MG	AA	1720	1/1	0.96	0.35	83,83,83,83	0
55	MG	DA	3093	1/1	0.96	0.32	52,52,52,52	0
55	MG	CA	1676	1/1	0.96	0.36	76,76,76,76	0
55	MG	BA	3549	1/1	0.96	0.46	55,55,55,55	0
55	MG	CA	1706	1/1	0.97	0.43	79,79,79,79	0
55	MG	DA	3463	1/1	0.97	0.22	84,84,84,84	0
55	MG	BA	3140	1/1	0.97	0.28	67,67,67,67	0
55	MG	BA	3160	1/1	0.97	0.31	44,44,44,44	0
55	MG	DA	3157	1/1	0.97	0.28	51,51,51,51	0
55	MG	BA	3169	1/1	0.97	0.37	45,45,45,45	0
55	MG	BA	3230	1/1	0.97	0.43	48,48,48,48	0
55	MG	BA	3068	1/1	0.98	0.41	56,56,56,56	0
55	MG	BA	3059	1/1	0.98	0.32	63,63,63,63	0
55	MG	BA	3016	1/1	0.98	0.36	48,48,48,48	0
55	MG	BA	3101	1/1	0.98	0.33	66,66,66,66	0
55	MG	BA	3555	1/1	0.98	0.25	47,47,47,47	0
55	MG	DA	3161	1/1	0.98	0.25	55,55,55,55	0
55	MG	DA	3124	1/1	0.98	0.29	47,47,47,47	0
55	MG	AA	1658	1/1	0.99	0.35	56,56,56,56	0
55	MG	BA	3291	1/1	-	-	56,56,56,56	1
55	MG	BA	3456	1/1	-0.34	0.48	168,168,168,168	0
55	MG	CB	104	1/1	-0.32	0.35	147,147,147,147	0
55	MG	BA	3420	1/1	-0.24	0.26	114,114,114,114	0
55	MG	CA	1808	1/1	-0.23	0.55	153,153,153,153	0
55	MG	CA	1673	1/1	-0.10	0.65	136,136,136,136	0
55	MG	BA	3189	1/1	-0.07	0.67	108,108,108,108	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	1809	1/1	-0.06	0.49	204,204,204,204	0
55	MG	CA	1768	1/1	-0.04	0.43	138,138,138,138	0
55	MG	DA	3279	1/1	-0.02	0.53	135,135,135,135	0
55	MG	AA	1764	1/1	-0.01	0.33	146,146,146,146	0
55	MG	BA	3393	1/1	-0.01	0.34	118,118,118,118	0
55	MG	DA	3398	1/1	-0.00	0.34	101,101,101,101	0
55	MG	AA	1613	1/1	0.04	0.48	116,116,116,116	0
55	MG	BA	3397	1/1	0.05	0.34	131,131,131,131	0
55	MG	DA	3366	1/1	0.05	0.35	105,105,105,105	0
55	MG	DA	3372	1/1	0.05	0.69	125,125,125,125	0
55	MG	AA	1779	1/1	0.05	0.26	119,119,119,119	0
55	MG	CA	1702	1/1	0.06	0.29	106,106,106,106	0
55	MG	BA	3202	1/1	0.08	0.33	97,97,97,97	0
55	MG	DA	3391	1/1	0.12	0.35	102,102,102,102	0
55	MG	BA	3195	1/1	0.13	0.64	97,97,97,97	0
55	MG	DA	3227	1/1	0.13	2.16	118,118,118,118	0
55	MG	DA	3336	1/1	0.15	0.60	115,115,115,115	0
55	MG	BA	3446	1/1	0.15	0.41	121,121,121,121	0
55	MG	DB	215	1/1	0.16	0.30	129,129,129,129	0
55	MG	DA	3291	1/1	0.17	0.48	149,149,149,149	0
55	MG	CA	1773	1/1	0.19	0.61	139,139,139,139	0
55	MG	DD	303	1/1	0.20	0.16	69,69,69,69	0
55	MG	AC	107	1/1	0.20	0.43	124,124,124,124	0
55	MG	BA	3386	1/1	0.23	0.42	115,115,115,115	0
55	MG	CA	1630	1/1	0.23	0.18	149,149,149,149	0
55	MG	BA	3429	1/1	0.24	0.55	146,146,146,146	0
55	MG	DA	3188	1/1	0.25	0.26	113,113,113,113	0
55	MG	CA	1761	1/1	0.25	0.55	143,143,143,143	0
55	MG	DA	3393	1/1	0.25	0.20	116,116,116,116	0
55	MG	AA	1648	1/1	0.25	0.36	115,115,115,115	0
55	MG	AA	1810	1/1	0.26	0.28	148,148,148,148	0
55	MG	BA	3422	1/1	0.26	0.70	110,110,110,110	0
55	MG	CA	1747	1/1	0.26	0.34	109,109,109,109	0
55	MG	AA	1724	1/1	0.27	0.20	78,78,78,78	0
55	MG	AA	1785	1/1	0.27	2.25	125,125,125,125	0
55	MG	BA	3451	1/1	0.28	0.50	101,101,101,101	0
55	MG	DA	3351	1/1	0.28	0.22	151,151,151,151	0
55	MG	BA	3078	1/1	0.28	0.52	101,101,101,101	0
55	MG	DA	3035	1/1	0.28	0.32	124,124,124,124	0
55	MG	CA	1781	1/1	0.30	0.21	172,172,172,172	0
55	MG	CA	1740	1/1	0.30	0.56	122,122,122,122	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1610	1/1	0.31	0.24	118,118,118,118	0
55	MG	BA	3163	1/1	0.32	0.34	86,86,86,86	0
55	MG	DA	3100	1/1	0.33	0.44	116,116,116,116	0
55	MG	AA	1703	1/1	0.33	0.31	106,106,106,106	0
55	MG	DA	3076	1/1	0.33	0.33	107,107,107,107	0
55	MG	BA	3439	1/1	0.34	0.38	115,115,115,115	0
55	MG	DB	210	1/1	0.34	0.80	128,128,128,128	0
55	MG	CA	1793	1/1	0.34	0.23	110,110,110,110	0
55	MG	BA	3343	1/1	0.35	0.32	114,114,114,114	0
55	MG	DA	3050	1/1	0.35	0.27	90,90,90,90	0
55	MG	A1	101	1/1	0.35	0.20	102,102,102,102	0
55	MG	BA	3125	1/1	0.36	0.32	107,107,107,107	0
55	MG	BA	3178	1/1	0.36	0.38	96,96,96,96	0
55	MG	CA	1792	1/1	0.38	0.18	104,104,104,104	0
55	MG	AA	1815	1/1	0.39	0.41	114,114,114,114	0
55	MG	CA	1716	1/1	0.39	0.31	103,103,103,103	0
55	MG	AA	1730	1/1	0.39	0.29	113,113,113,113	0
55	MG	BA	3550	1/1	0.40	1.22	131,131,131,131	0
55	MG	BA	3373	1/1	0.40	0.48	92,92,92,92	0
55	MG	CA	1680	1/1	0.40	0.20	99,99,99,99	0
55	MG	BA	3406	1/1	0.41	1.35	182,182,182,182	0
55	MG	DA	3469	1/1	0.42	0.31	109,109,109,109	0
55	MG	DA	3263	1/1	0.42	0.29	96,96,96,96	0
55	MG	CA	1737	1/1	0.43	0.23	122,122,122,122	0
55	MG	CA	1675	1/1	0.43	0.39	111,111,111,111	0
55	MG	BA	3448	1/1	0.44	0.24	104,104,104,104	0
55	MG	DA	3172	1/1	0.44	0.42	122,122,122,122	0
55	MG	CA	1809	1/1	0.44	0.35	93,93,93,93	0
55	MG	AA	1804	1/1	0.45	0.43	113,113,113,113	0
55	MG	CA	1621	1/1	0.45	0.19	97,97,97,97	0
55	MG	CA	1753	1/1	0.45	0.24	103,103,103,103	0
55	MG	DA	3192	1/1	0.45	0.17	90,90,90,90	0
55	MG	CA	1763	1/1	0.46	0.16	100,100,100,100	0
55	MG	DA	3167	1/1	0.46	0.17	95,95,95,95	0
55	MG	DB	209	1/1	0.46	0.33	130,130,130,130	0
55	MG	AB	102	1/1	0.46	0.29	96,96,96,96	0
55	MG	CA	1745	1/1	0.46	0.29	159,159,159,159	0
55	MG	AA	1814	1/1	0.47	0.34	107,107,107,107	0
55	MG	CA	1742	1/1	0.47	0.92	108,108,108,108	0
55	MG	DA	3238	1/1	0.48	0.41	105,105,105,105	0
55	MG	CA	1729	1/1	0.48	0.38	102,102,102,102	0
55	MG	DA	3402	1/1	0.49	0.20	124,124,124,124	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CC	103	1/1	0.49	0.23	114,114,114,114	0
55	MG	DA	3036	1/1	0.49	0.20	100,100,100,100	0
55	MG	AA	1757	1/1	0.49	0.40	101,101,101,101	0
55	MG	BA	3338	1/1	0.50	0.28	91,91,91,91	0
55	MG	BA	3122	1/1	0.50	0.53	106,106,106,106	0
55	MG	CB	102	1/1	0.50	0.19	102,102,102,102	0
55	MG	AC	105	1/1	0.50	0.36	102,102,102,102	0
55	MG	B6	101	1/1	0.51	0.32	102,102,102,102	0
55	MG	DA	3039	1/1	0.51	0.23	101,101,101,101	0
55	MG	BA	3082	1/1	0.51	0.36	100,100,100,100	0
55	MG	AD	102	1/1	0.52	0.23	125,125,125,125	0
55	MG	DA	3218	1/1	0.52	0.27	86,86,86,86	0
55	MG	CA	1813	1/1	0.52	0.24	108,108,108,108	0
55	MG	AD	103	1/1	0.52	0.23	89,89,89,89	0
55	MG	DA	3194	1/1	0.52	0.33	104,104,104,104	0
55	MG	CA	1805	1/1	0.52	0.18	102,102,102,102	0
55	MG	BA	3378	1/1	0.52	0.26	140,140,140,140	0
55	MG	DA	3359	1/1	0.53	0.14	111,111,111,111	0
55	MG	AA	1819	1/1	0.53	0.32	126,126,126,126	0
55	MG	CA	1710	1/1	0.53	0.17	118,118,118,118	0
55	MG	DA	3024	1/1	0.53	0.35	104,104,104,104	0
55	MG	CA	1672	1/1	0.53	0.17	119,119,119,119	0
55	MG	BA	3192	1/1	0.53	0.47	92,92,92,92	0
55	MG	AA	1706	1/1	0.54	0.21	91,91,91,91	0
55	MG	CA	1701	1/1	0.54	1.26	108,108,108,108	0
55	MG	BA	3467	1/1	0.55	0.25	69,69,69,69	0
55	MG	DB	211	1/1	0.55	0.22	111,111,111,111	0
55	MG	CA	1817	1/1	0.55	0.44	106,106,106,106	0
55	MG	BA	3453	1/1	0.55	0.21	75,75,75,75	0
55	MG	DA	3221	1/1	0.56	1.32	154,154,154,154	0
55	MG	BA	3268	1/1	0.56	0.25	90,90,90,90	0
55	MG	BA	3401	1/1	0.56	0.29	86,86,86,86	0
55	MG	CC	105	1/1	0.56	0.13	94,94,94,94	0
55	MG	AA	1743	1/1	0.56	0.25	107,107,107,107	0
55	MG	BA	3062	1/1	0.56	0.36	79,79,79,79	0
55	MG	BA	3037	1/1	0.57	0.35	105,105,105,105	0
55	MG	BA	3041	1/1	0.57	0.48	80,80,80,80	0
55	MG	BA	3281	1/1	0.57	0.28	78,78,78,78	0
55	MG	CA	1764	1/1	0.57	0.22	117,117,117,117	0
55	MG	BA	3335	1/1	0.57	0.34	102,102,102,102	0
55	MG	DA	3342	1/1	0.57	0.93	122,122,122,122	0
55	MG	DA	3439	1/1	0.58	0.36	107,107,107,107	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	3443	1/1	0.58	0.26	94,94,94,94	0
55	MG	BA	3479	1/1	0.58	0.55	146,146,146,146	0
55	MG	BA	3396	1/1	0.58	0.55	87,87,87,87	0
55	MG	AA	1738	1/1	0.58	0.26	91,91,91,91	0
55	MG	DB	206	1/1	0.58	0.31	89,89,89,89	0
55	MG	DB	212	1/1	0.58	0.33	120,120,120,120	0
55	MG	BA	3509	1/1	0.58	0.46	97,97,97,97	0
55	MG	DA	3383	1/1	0.58	0.20	107,107,107,107	0
55	MG	BA	3557	1/1	0.58	0.33	94,94,94,94	0
55	MG	BA	3452	1/1	0.58	0.35	103,103,103,103	0
55	MG	BA	3472	1/1	0.58	0.63	133,133,133,133	0
55	MG	DA	3308	1/1	0.59	0.30	99,99,99,99	0
55	MG	BD	301	1/1	0.59	0.21	80,80,80,80	0
55	MG	DA	3444	1/1	0.59	0.23	109,109,109,109	0
55	MG	BA	3566	1/1	0.60	0.33	83,83,83,83	0
55	MG	BA	3537	1/1	0.60	0.47	73,73,73,73	0
55	MG	BA	3483	1/1	0.60	0.35	120,120,120,120	0
55	MG	DA	3426	1/1	0.60	0.32	103,103,103,103	0
55	MG	AA	1741	1/1	0.60	0.22	98,98,98,98	0
55	MG	BA	3543	1/1	0.60	0.39	101,101,101,101	0
55	MG	BA	3137	1/1	0.60	0.44	88,88,88,88	0
55	MG	BA	3433	1/1	0.60	0.42	99,99,99,99	0
55	MG	DA	3321	1/1	0.60	0.16	112,112,112,112	0
55	MG	AA	1696	1/1	0.60	0.39	112,112,112,112	0
55	MG	DA	3446	1/1	0.60	0.43	166,166,166,166	0
55	MG	AA	1765	1/1	0.60	0.28	149,149,149,149	0
55	MG	CA	1796	1/1	0.60	0.18	146,146,146,146	0
55	MG	DA	3486	1/1	0.61	0.20	101,101,101,101	0
55	MG	DA	3479	1/1	0.61	0.17	97,97,97,97	0
55	MG	DB	208	1/1	0.61	0.30	99,99,99,99	0
55	MG	AA	1818	1/1	0.61	0.47	124,124,124,124	0
55	MG	CA	1700	1/1	0.61	0.33	96,96,96,96	0
55	MG	DA	3328	1/1	0.61	0.27	84,84,84,84	0
55	MG	DA	3353	1/1	0.61	0.24	102,102,102,102	0
55	MG	DA	3163	1/1	0.61	0.37	75,75,75,75	0
55	MG	DA	3206	1/1	0.61	0.29	109,109,109,109	0
55	MG	DA	3261	1/1	0.61	0.22	78,78,78,78	0
55	MG	AA	1784	1/1	0.61	0.22	112,112,112,112	0
55	MG	AR	101	1/1	0.62	0.19	114,114,114,114	0
55	MG	BA	3565	1/1	0.62	0.38	105,105,105,105	0
55	MG	DA	3281	1/1	0.62	0.23	90,90,90,90	0
55	MG	BA	3353	1/1	0.62	0.45	77,77,77,77	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	DA	3290	1/1	0.62	0.17	99,99,99,99	0
55	MG	AA	1637	1/1	0.62	0.23	112,112,112,112	0
55	MG	DA	3382	1/1	0.62	0.48	121,121,121,121	0
55	MG	DA	3421	1/1	0.62	0.32	84,84,84,84	0
55	MG	BA	3262	1/1	0.62	0.40	87,87,87,87	0
55	MG	AA	1697	1/1	0.62	0.29	101,101,101,101	0
55	MG	CA	1696	1/1	0.62	0.20	104,104,104,104	0
55	MG	BA	3445	1/1	0.63	0.27	82,82,82,82	0
55	MG	CA	1819	1/1	0.63	0.45	134,134,134,134	0
55	MG	DA	3484	1/1	0.63	0.23	84,84,84,84	0
55	MG	DA	3299	1/1	0.63	0.19	84,84,84,84	0
55	MG	BA	3440	1/1	0.63	0.56	96,96,96,96	0
55	MG	AC	102	1/1	0.63	0.37	106,106,106,106	0
55	MG	BA	3404	1/1	0.63	0.35	100,100,100,100	0
55	MG	DA	3054	1/1	0.63	0.42	108,108,108,108	0
55	MG	B3	102	1/1	0.63	0.35	107,107,107,107	0
55	MG	CA	1687	1/1	0.64	0.29	99,99,99,99	0
55	MG	AA	1755	1/1	0.64	0.30	88,88,88,88	0
55	MG	AA	1791	1/1	0.64	0.47	90,90,90,90	0
55	MG	BA	3274	1/1	0.64	0.47	108,108,108,108	0
55	MG	BA	3155	1/1	0.64	0.98	114,114,114,114	0
55	MG	BB	201	1/1	0.64	0.29	97,97,97,97	0
55	MG	AA	1708	1/1	0.64	0.14	77,77,77,77	0
55	MG	BA	3399	1/1	0.64	0.32	99,99,99,99	0
55	MG	AA	1801	1/1	0.64	0.19	130,130,130,130	0
55	MG	CA	1671	1/1	0.64	0.22	100,100,100,100	0
55	MG	BA	3411	1/1	0.64	0.30	102,102,102,102	0
55	MG	DA	3079	1/1	0.64	0.25	103,103,103,103	0
55	MG	DA	3414	1/1	0.64	0.30	111,111,111,111	0
55	MG	BA	3484	1/1	0.64	0.36	87,87,87,87	0
55	MG	CA	1778	1/1	0.64	0.24	133,133,133,133	0
55	MG	AA	1763	1/1	0.65	0.21	92,92,92,92	0
55	MG	AA	1729	1/1	0.65	0.29	84,84,84,84	0
55	MG	DA	3423	1/1	0.65	0.88	118,118,118,118	0
55	MG	AA	1631	1/1	0.65	0.24	84,84,84,84	0
55	MG	CA	1767	1/1	0.65	0.19	87,87,87,87	0
55	MG	AA	1736	1/1	0.65	0.56	108,108,108,108	0
55	MG	CA	1815	1/1	0.65	0.19	95,95,95,95	0
55	MG	DA	3409	1/1	0.65	0.51	124,124,124,124	0
55	MG	D5	102	1/1	0.65	0.24	104,104,104,104	0
55	MG	DA	3459	1/1	0.65	0.28	76,76,76,76	0
55	MG	DA	3370	1/1	0.65	0.32	81,81,81,81	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1810	1/1	0.65	0.27	101,101,101,101	0
55	MG	AA	1626	1/1	0.65	0.32	91,91,91,91	0
55	MG	CA	1757	1/1	0.66	0.28	95,95,95,95	0
55	MG	BA	3051	1/1	0.66	0.31	103,103,103,103	0
55	MG	DB	204	1/1	0.66	0.37	94,94,94,94	0
55	MG	BA	3301	1/1	0.66	0.26	84,84,84,84	0
55	MG	BA	3510	1/1	0.66	0.48	108,108,108,108	0
55	MG	BA	3444	1/1	0.66	0.21	87,87,87,87	0
55	MG	BB	208	1/1	0.66	0.42	117,117,117,117	0
55	MG	DA	3390	1/1	0.66	0.21	92,92,92,92	0
55	MG	DB	217	1/1	0.66	0.29	97,97,97,97	0
55	MG	DA	3451	1/1	0.66	0.23	92,92,92,92	0
55	MG	DA	3092	1/1	0.66	0.17	87,87,87,87	0
55	MG	DA	3228	1/1	0.66	0.54	103,103,103,103	0
55	MG	BA	3475	1/1	0.67	0.32	212,212,212,212	0
55	MG	AA	1727	1/1	0.67	0.22	95,95,95,95	0
55	MG	BA	3568	1/1	0.67	0.20	106,106,106,106	0
55	MG	BA	3058	1/1	0.67	0.30	88,88,88,88	0
55	MG	BA	3376	1/1	0.67	0.27	83,83,83,83	0
55	MG	AA	1688	1/1	0.67	0.15	93,93,93,93	0
55	MG	BA	3209	1/1	0.67	0.48	78,78,78,78	0
55	MG	BA	3290	1/1	0.67	0.24	75,75,75,75	0
55	MG	CA	1682	1/1	0.67	0.13	100,100,100,100	0
55	MG	BA	3333	1/1	0.67	0.52	80,80,80,80	0
55	MG	BA	3316	1/1	0.67	0.39	87,87,87,87	0
55	MG	AA	1762	1/1	0.67	0.18	121,121,121,121	0
55	MG	CA	1709	1/1	0.67	0.34	110,110,110,110	0
55	MG	BB	204	1/1	0.67	0.32	91,91,91,91	0
55	MG	CA	1748	1/1	0.67	0.31	76,76,76,76	0
55	MG	CA	1749	1/1	0.67	0.25	117,117,117,117	0
55	MG	BA	3412	1/1	0.67	0.39	89,89,89,89	0
55	MG	BA	3288	1/1	0.67	0.26	75,75,75,75	0
55	MG	CA	1707	1/1	0.68	0.31	109,109,109,109	0
55	MG	DA	3389	1/1	0.68	0.28	97,97,97,97	0
55	MG	CA	1667	1/1	0.68	0.21	98,98,98,98	0
55	MG	DA	3296	1/1	0.68	0.16	93,93,93,93	0
55	MG	BA	3243	1/1	0.68	0.26	79,79,79,79	0
55	MG	AA	1713	1/1	0.68	0.35	98,98,98,98	0
55	MG	CA	1693	1/1	0.68	0.26	103,103,103,103	0
55	MG	BA	3455	1/1	0.69	0.78	89,89,89,89	0
55	MG	BA	3176	1/1	0.69	0.27	78,78,78,78	0
55	MG	DB	216	1/1	0.69	0.16	100,100,100,100	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	1750	1/1	0.69	0.45	134,134,134,134	0
55	MG	BA	3289	1/1	0.69	0.34	95,95,95,95	0
55	MG	CA	1788	1/1	0.69	0.24	132,132,132,132	0
55	MG	BA	3334	1/1	0.69	0.28	67,67,67,67	0
55	MG	CA	1776	1/1	0.69	0.31	118,118,118,118	0
55	MG	B3	103	1/1	0.69	0.32	83,83,83,83	0
55	MG	DA	3121	1/1	0.69	0.20	104,104,104,104	0
55	MG	DA	3425	1/1	0.69	0.42	88,88,88,88	0
55	MG	BA	3266	1/1	0.69	0.41	71,71,71,71	0
55	MG	DA	3159	1/1	0.70	0.32	68,68,68,68	0
55	MG	DA	3319	1/1	0.70	0.21	95,95,95,95	0
55	MG	BA	3344	1/1	0.70	0.68	84,84,84,84	0
55	MG	CA	1790	1/1	0.70	0.51	142,142,142,142	0
55	MG	DA	3350	1/1	0.70	0.33	120,120,120,120	0
55	MG	B1	202	1/1	0.70	0.33	86,86,86,86	0
55	MG	CA	1708	1/1	0.70	0.18	124,124,124,124	0
55	MG	AA	1773	1/1	0.70	0.35	130,130,130,130	0
55	MG	DA	3448	1/1	0.70	0.19	129,129,129,129	0
55	MG	CC	104	1/1	0.70	0.21	98,98,98,98	0
55	MG	DA	3250	1/1	0.70	0.24	62,62,62,62	0
55	MG	DA	3300	1/1	0.70	0.34	75,75,75,75	0
55	MG	AA	1702	1/1	0.71	0.36	89,89,89,89	0
55	MG	DA	3219	1/1	0.71	0.26	128,128,128,128	0
55	MG	AA	1687	1/1	0.71	0.26	108,108,108,108	0
55	MG	CA	1704	1/1	0.71	0.37	88,88,88,88	0
55	MG	B2	201	1/1	0.71	0.36	91,91,91,91	0
55	MG	DA	3413	1/1	0.71	0.37	86,86,86,86	0
55	MG	BA	3426	1/1	0.71	0.47	86,86,86,86	0
55	MG	BA	3501	1/1	0.71	0.35	86,86,86,86	0
55	MG	BA	3372	1/1	0.71	0.46	76,76,76,76	0
55	MG	DA	3406	1/1	0.71	0.35	129,129,129,129	0
55	MG	CA	1692	1/1	0.71	0.10	157,157,157,157	0
55	MG	CC	106	1/1	0.71	0.35	94,94,94,94	0
55	MG	DA	3368	1/1	0.72	0.20	97,97,97,97	0
55	MG	CB	101	1/1	0.72	0.18	106,106,106,106	0
55	MG	DA	3179	1/1	0.72	0.33	88,88,88,88	0
55	MG	BA	3513	1/1	0.72	0.29	92,92,92,92	0
55	MG	BA	3279	1/1	0.72	0.40	75,75,75,75	0
55	MG	DA	3386	1/1	0.72	0.23	130,130,130,130	0
55	MG	DA	3399	1/1	0.72	0.58	117,117,117,117	0
55	MG	D8	101	1/1	0.72	0.16	88,88,88,88	0
55	MG	DA	3445	1/1	0.72	0.15	118,118,118,118	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BB	217	1/1	0.72	0.31	104,104,104,104	0
55	MG	DA	3334	1/1	0.72	0.31	87,87,87,87	0
55	MG	BA	3128	1/1	0.72	0.23	71,71,71,71	0
55	MG	CK	201	1/1	0.72	1.47	124,124,124,124	0
55	MG	CA	1658	1/1	0.72	0.33	90,90,90,90	0
55	MG	AA	1806	1/1	0.72	0.40	85,85,85,85	0
55	MG	DA	3310	1/1	0.72	0.29	105,105,105,105	0
55	MG	CA	1780	1/1	0.72	0.21	88,88,88,88	0
55	MG	CA	1799	1/1	0.72	0.18	81,81,81,81	0
55	MG	DA	3346	1/1	0.72	0.23	102,102,102,102	0
55	MG	CA	1762	1/1	0.72	0.44	108,108,108,108	0
55	MG	CA	1797	1/1	0.72	0.36	85,85,85,85	0
55	MG	AA	1799	1/1	0.73	0.21	101,101,101,101	0
55	MG	DA	3252	1/1	0.73	0.17	99,99,99,99	0
55	MG	BA	3365	1/1	0.73	0.22	81,81,81,81	0
55	MG	BO	202	1/1	0.73	0.20	98,98,98,98	0
55	MG	BA	3323	1/1	0.73	0.59	73,73,73,73	0
55	MG	CA	1653	1/1	0.73	0.26	97,97,97,97	0
55	MG	BB	210	1/1	0.73	0.30	81,81,81,81	0
55	MG	CA	1684	1/1	0.73	0.26	101,101,101,101	0
55	MG	DA	3482	1/1	0.73	0.37	83,83,83,83	0
55	MG	CA	1694	1/1	0.73	0.16	80,80,80,80	0
55	MG	DB	218	1/1	0.73	0.13	107,107,107,107	0
55	MG	AA	1728	1/1	0.73	0.46	99,99,99,99	0
55	MG	BA	3263	1/1	0.73	0.45	80,80,80,80	0
55	MG	BA	3269	1/1	0.73	0.29	79,79,79,79	0
55	MG	BA	3473	1/1	0.73	0.30	92,92,92,92	0
55	MG	AA	1678	1/1	0.73	0.37	115,115,115,115	0
55	MG	AA	1746	1/1	0.73	0.32	93,93,93,93	0
55	MG	DA	3283	1/1	0.73	0.26	88,88,88,88	0
55	MG	BA	3324	1/1	0.73	0.43	105,105,105,105	0
55	MG	DA	3320	1/1	0.73	0.30	87,87,87,87	0
55	MG	DA	3404	1/1	0.74	0.26	119,119,119,119	0
55	MG	DA	3040	1/1	0.74	0.23	118,118,118,118	0
55	MG	BA	3540	1/1	0.74	0.44	83,83,83,83	0
55	MG	DA	3277	1/1	0.74	0.16	78,78,78,78	0
55	MG	DA	3481	1/1	0.74	0.14	79,79,79,79	0
55	MG	DB	219	1/1	0.74	0.12	94,94,94,94	0
55	MG	BA	3477	1/1	0.74	0.57	77,77,77,77	0
55	MG	DA	3088	1/1	0.74	0.26	62,62,62,62	0
55	MG	CA	1648	1/1	0.74	0.28	113,113,113,113	0
55	MG	BA	3352	1/1	0.74	0.40	75,75,75,75	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	3114	1/1	0.74	0.38	91,91,91,91	0
55	MG	AA	1653	1/1	0.74	0.31	95,95,95,95	0
55	MG	BA	3547	1/1	0.74	0.29	77,77,77,77	0
55	MG	DA	3369	1/1	0.74	0.35	108,108,108,108	0
55	MG	AA	1775	1/1	0.74	0.45	129,129,129,129	0
55	MG	DA	3231	1/1	0.74	0.27	101,101,101,101	0
55	MG	DA	3316	1/1	0.74	0.17	102,102,102,102	0
55	MG	DA	3437	1/1	0.74	0.18	66,66,66,66	0
55	MG	BA	3245	1/1	0.74	0.47	107,107,107,107	0
55	MG	BA	3432	1/1	0.74	0.24	106,106,106,106	0
55	MG	AA	1695	1/1	0.75	0.20	128,128,128,128	0
55	MG	DA	3185	1/1	0.75	0.15	78,78,78,78	0
55	MG	DA	3270	1/1	0.75	0.36	76,76,76,76	0
55	MG	DA	3376	1/1	0.75	0.25	107,107,107,107	0
55	MG	AA	1816	1/1	0.75	0.25	95,95,95,95	0
55	MG	AA	1770	1/1	0.75	0.25	80,80,80,80	0
55	MG	DA	3461	1/1	0.75	0.24	97,97,97,97	0
55	MG	AA	1691	1/1	0.75	0.28	88,88,88,88	0
55	MG	DA	3248	1/1	0.75	0.19	95,95,95,95	0
55	MG	BA	3259	1/1	0.75	0.24	109,109,109,109	0
55	MG	DA	3153	1/1	0.75	0.10	88,88,88,88	0
55	MG	AA	1766	1/1	0.75	0.32	98,98,98,98	0
55	MG	AA	1690	1/1	0.75	0.18	98,98,98,98	0
55	MG	DA	3477	1/1	0.75	0.34	88,88,88,88	0
55	MG	BA	3309	1/1	0.75	0.46	77,77,77,77	0
55	MG	BA	3210	1/1	0.75	0.25	99,99,99,99	0
55	MG	DA	3314	1/1	0.75	0.15	95,95,95,95	0
55	MG	DA	3134	1/1	0.76	0.18	93,93,93,93	0
55	MG	CA	1615	1/1	0.76	0.27	106,106,106,106	0
55	MG	DA	3332	1/1	0.76	0.17	84,84,84,84	0
55	MG	B7	101	1/1	0.76	0.32	72,72,72,72	0
55	MG	AA	1817	1/1	0.76	0.17	61,61,61,61	0
55	MG	DA	3400	1/1	0.76	0.14	115,115,115,115	0
55	MG	DA	3392	1/1	0.76	0.22	126,126,126,126	0
55	MG	AA	1797	1/1	0.76	0.27	79,79,79,79	0
55	MG	DA	3327	1/1	0.76	0.23	93,93,93,93	0
55	MG	DA	3177	1/1	0.76	0.12	129,129,129,129	0
55	MG	BA	3275	1/1	0.76	0.35	60,60,60,60	0
55	MG	AA	1747	1/1	0.76	0.20	98,98,98,98	0
55	MG	DA	3225	1/1	0.76	0.45	102,102,102,102	0
55	MG	DA	3208	1/1	0.76	0.29	91,91,91,91	0
55	MG	DA	3358	1/1	0.76	0.45	90,90,90,90	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	1803	1/1	0.76	0.28	89,89,89,89	0
55	MG	BA	3395	1/1	0.76	0.29	90,90,90,90	0
55	MG	BA	3385	1/1	0.76	0.18	86,86,86,86	0
55	MG	BA	3383	1/1	0.76	0.18	94,94,94,94	0
55	MG	DA	3442	1/1	0.76	0.30	98,98,98,98	0
55	MG	AA	1753	1/1	0.77	0.19	97,97,97,97	0
55	MG	BA	3065	1/1	0.77	0.31	82,82,82,82	0
55	MG	DA	3441	1/1	0.77	0.17	89,89,89,89	0
55	MG	BA	3075	1/1	0.77	0.40	75,75,75,75	0
55	MG	BA	3069	1/1	0.77	0.42	93,93,93,93	0
55	MG	DA	3099	1/1	0.77	0.51	83,83,83,83	0
55	MG	DA	3325	1/1	0.77	0.17	97,97,97,97	0
55	MG	DA	3209	1/1	0.77	0.36	96,96,96,96	0
55	MG	DA	3133	1/1	0.77	0.17	91,91,91,91	0
55	MG	AA	1759	1/1	0.77	0.14	66,66,66,66	0
55	MG	AA	1669	1/1	0.77	0.27	77,77,77,77	0
55	MG	CA	1746	1/1	0.77	0.20	87,87,87,87	0
55	MG	DA	3384	1/1	0.77	0.39	97,97,97,97	0
55	MG	DA	3354	1/1	0.77	0.25	83,83,83,83	0
55	MG	BB	211	1/1	0.77	0.22	109,109,109,109	0
55	MG	DA	3422	1/1	0.77	0.20	75,75,75,75	0
55	MG	AA	1704	1/1	0.77	0.24	110,110,110,110	0
55	MG	AA	1733	1/1	0.77	0.31	101,101,101,101	0
55	MG	CA	1734	1/1	0.77	0.13	80,80,80,80	0
55	MG	DA	3120	1/1	0.77	0.43	73,73,73,73	0
55	MG	DA	3468	1/1	0.77	0.15	101,101,101,101	0
55	MG	DA	3142	1/1	0.77	0.37	81,81,81,81	0
55	MG	DA	3480	1/1	0.77	0.20	109,109,109,109	0
55	MG	DA	3378	1/1	0.77	0.28	88,88,88,88	0
55	MG	DA	3322	1/1	0.77	0.32	99,99,99,99	0
55	MG	BA	3563	1/1	0.77	0.24	100,100,100,100	0
55	MG	AA	1772	1/1	0.78	0.58	131,131,131,131	0
55	MG	DA	3081	1/1	0.78	0.32	84,84,84,84	0
55	MG	BA	3270	1/1	0.78	0.36	96,96,96,96	0
55	MG	AA	1612	1/1	0.78	0.26	88,88,88,88	0
55	MG	CA	1771	1/1	0.78	0.19	117,117,117,117	0
55	MG	AA	1683	1/1	0.78	0.41	87,87,87,87	0
55	MG	BA	3238	1/1	0.78	0.32	75,75,75,75	0
55	MG	DA	3135	1/1	0.78	0.17	87,87,87,87	0
55	MG	DA	3387	1/1	0.78	0.26	102,102,102,102	0
55	MG	DA	3085	1/1	0.78	0.44	81,81,81,81	0
55	MG	AA	1800	1/1	0.78	0.43	131,131,131,131	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3474	1/1	0.78	0.37	72,72,72,72	0
55	MG	CA	1646	1/1	0.78	0.25	88,88,88,88	0
55	MG	AA	1635	1/1	0.78	0.18	81,81,81,81	0
55	MG	DA	3377	1/1	0.78	0.28	87,87,87,87	0
55	MG	BA	3106	1/1	0.78	0.22	89,89,89,89	0
55	MG	BA	3222	1/1	0.78	0.47	68,68,68,68	0
55	MG	AA	1731	1/1	0.78	0.11	90,90,90,90	0
55	MG	CA	1678	1/1	0.78	0.50	83,83,83,83	0
55	MG	CA	1666	1/1	0.78	0.16	90,90,90,90	0
55	MG	CA	1812	1/1	0.78	1.05	176,176,176,176	0
55	MG	BA	3487	1/1	0.78	0.49	100,100,100,100	0
55	MG	BA	3300	1/1	0.78	0.43	80,80,80,80	0
55	MG	DA	3278	1/1	0.79	0.25	100,100,100,100	0
55	MG	DA	3315	1/1	0.79	0.14	91,91,91,91	0
55	MG	CA	1699	1/1	0.79	0.33	87,87,87,87	0
55	MG	DA	3326	1/1	0.79	0.34	109,109,109,109	0
55	MG	DA	3374	1/1	0.79	0.19	92,92,92,92	0
55	MG	BA	3442	1/1	0.79	0.30	90,90,90,90	0
55	MG	BA	3512	1/1	0.79	0.32	90,90,90,90	0
55	MG	CA	1711	1/1	0.79	0.18	101,101,101,101	0
55	MG	AA	1768	1/1	0.79	0.48	71,71,71,71	0
55	MG	BA	3242	1/1	0.79	0.26	116,116,116,116	0
55	MG	DA	3401	1/1	0.79	0.12	75,75,75,75	0
55	MG	BA	3421	1/1	0.79	0.88	97,97,97,97	0
55	MG	CA	1798	1/1	0.79	0.39	74,74,74,74	0
55	MG	BA	3277	1/1	0.79	0.34	79,79,79,79	0
55	MG	BA	3461	1/1	0.79	0.34	98,98,98,98	0
55	MG	BA	3294	1/1	0.79	0.34	61,61,61,61	0
55	MG	DA	3259	1/1	0.79	0.30	92,92,92,92	0
55	MG	DA	3245	1/1	0.79	0.16	91,91,91,91	0
55	MG	DA	3243	1/1	0.79	0.26	97,97,97,97	0
55	MG	AA	1675	1/1	0.79	0.20	81,81,81,81	0
55	MG	CC	109	1/1	0.79	0.29	114,114,114,114	0
55	MG	DA	3488	1/1	0.79	0.23	100,100,100,100	0
55	MG	AA	1778	1/1	0.80	0.10	143,143,143,143	0
55	MG	CA	1660	1/1	0.80	0.13	85,85,85,85	0
55	MG	AA	1630	1/1	0.80	0.34	112,112,112,112	0
55	MG	BA	3450	1/1	0.80	0.30	82,82,82,82	0
55	MG	BA	3424	1/1	0.80	0.47	84,84,84,84	0
55	MG	CA	1655	1/1	0.80	0.11	85,85,85,85	0
55	MG	BA	3364	1/1	0.80	0.32	72,72,72,72	0
55	MG	CA	1736	1/1	0.80	1.03	143,143,143,143	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1688	1/1	0.80	0.21	95,95,95,95	0
55	MG	AA	1624	1/1	0.80	0.21	94,94,94,94	0
55	MG	DA	3458	1/1	0.80	0.34	75,75,75,75	0
55	MG	CA	1814	1/1	0.80	0.19	83,83,83,83	0
55	MG	DA	3307	1/1	0.80	0.32	99,99,99,99	0
55	MG	CA	1622	1/1	0.80	0.65	110,110,110,110	0
55	MG	CG	301	1/1	0.80	0.40	107,107,107,107	0
55	MG	AA	1623	1/1	0.80	0.34	63,63,63,63	0
55	MG	AA	1682	1/1	0.80	0.22	93,93,93,93	0
55	MG	BE	303	1/1	0.80	0.39	105,105,105,105	0
55	MG	DA	3286	1/1	0.80	0.33	78,78,78,78	0
55	MG	AA	1792	1/1	0.80	0.30	97,97,97,97	0
55	MG	BA	3194	1/1	0.80	0.27	74,74,74,74	0
55	MG	BA	3457	1/1	0.80	0.17	85,85,85,85	0
55	MG	AB	104	1/1	0.80	0.43	97,97,97,97	0
55	MG	BA	3561	1/1	0.80	0.29	84,84,84,84	0
55	MG	AC	106	1/1	0.80	0.39	102,102,102,102	0
55	MG	DA	3166	1/1	0.80	0.25	90,90,90,90	0
55	MG	BA	3295	1/1	0.80	0.19	92,92,92,92	0
55	MG	BA	3379	1/1	0.80	0.45	78,78,78,78	0
55	MG	BA	3162	1/1	0.80	0.28	67,67,67,67	0
55	MG	AA	1649	1/1	0.80	0.21	95,95,95,95	0
55	MG	AA	1654	1/1	0.81	0.28	77,77,77,77	0
55	MG	BA	3254	1/1	0.81	0.44	89,89,89,89	0
55	MG	DA	3318	1/1	0.81	0.28	77,77,77,77	0
55	MG	CA	1777	1/1	0.81	0.14	112,112,112,112	0
55	MG	BA	3253	1/1	0.81	0.47	92,92,92,92	0
55	MG	DA	3030	1/1	0.81	0.20	85,85,85,85	0
55	MG	BA	3322	1/1	0.81	0.38	81,81,81,81	0
55	MG	BA	3318	1/1	0.81	0.37	102,102,102,102	0
55	MG	BF	302	1/1	0.81	0.53	88,88,88,88	0
55	MG	BA	3097	1/1	0.81	0.20	59,59,59,59	0
55	MG	BA	3231	1/1	0.81	0.35	46,46,46,46	0
55	MG	DA	3273	1/1	0.81	0.10	77,77,77,77	0
55	MG	BA	3138	1/1	0.81	0.46	86,86,86,86	0
55	MG	D3	101	1/1	0.81	0.13	91,91,91,91	0
55	MG	CA	1750	1/1	0.81	0.26	86,86,86,86	0
55	MG	BA	3464	1/1	0.81	0.15	91,91,91,91	0
55	MG	DA	3258	1/1	0.81	0.13	87,87,87,87	0
55	MG	DA	3309	1/1	0.81	0.46	116,116,116,116	0
55	MG	CC	107	1/1	0.81	0.22	123,123,123,123	0
55	MG	DA	3140	1/1	0.81	0.30	76,76,76,76	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	B5	101	1/1	0.81	0.18	49,49,49,49	0
55	MG	CA	1677	1/1	0.81	0.19	107,107,107,107	0
55	MG	BA	3485	1/1	0.81	0.27	98,98,98,98	0
55	MG	DA	3280	1/1	0.81	0.42	91,91,91,91	0
55	MG	AA	1749	1/1	0.81	0.44	110,110,110,110	0
55	MG	BA	3252	1/1	0.81	0.42	107,107,107,107	0
55	MG	BA	3489	1/1	0.81	0.41	95,95,95,95	0
55	MG	BA	3233	1/1	0.81	0.36	66,66,66,66	0
55	MG	BA	3267	1/1	0.81	0.36	62,62,62,62	0
55	MG	AA	1744	1/1	0.81	0.38	79,79,79,79	0
55	MG	BA	3191	1/1	0.81	0.39	89,89,89,89	0
55	MG	BA	3239	1/1	0.82	0.20	69,69,69,69	0
55	MG	BA	3502	1/1	0.82	0.30	78,78,78,78	0
55	MG	BA	3151	1/1	0.82	0.57	97,97,97,97	0
55	MG	DA	3091	1/1	0.82	0.15	74,74,74,74	0
55	MG	BA	3315	1/1	0.82	0.44	93,93,93,93	0
55	MG	BA	3053	1/1	0.82	0.10	106,106,106,106	0
55	MG	AA	1798	1/1	0.82	0.31	84,84,84,84	0
55	MG	AA	1808	1/1	0.82	0.32	88,88,88,88	0
55	MG	DA	3269	1/1	0.82	0.30	78,78,78,78	0
55	MG	AA	1680	1/1	0.82	0.49	97,97,97,97	0
55	MG	BA	3107	1/1	0.82	0.19	81,81,81,81	0
55	MG	DA	3380	1/1	0.82	0.19	80,80,80,80	0
55	MG	BA	3414	1/1	0.82	0.36	100,100,100,100	0
55	MG	AA	1813	1/1	0.82	0.36	85,85,85,85	0
55	MG	CA	1751	1/1	0.82	0.24	90,90,90,90	0
55	MG	CC	108	1/1	0.82	0.22	95,95,95,95	0
55	MG	BA	3545	1/1	0.82	0.23	82,82,82,82	0
55	MG	AA	1685	1/1	0.82	0.34	85,85,85,85	0
55	MG	AA	1633	1/1	0.82	0.39	102,102,102,102	0
55	MG	DA	3139	1/1	0.82	0.28	53,53,53,53	0
55	MG	AA	1673	1/1	0.82	0.31	75,75,75,75	0
55	MG	DA	3282	1/1	0.82	0.30	64,64,64,64	0
55	MG	AA	1667	1/1	0.82	0.56	78,78,78,78	0
55	MG	BB	215	1/1	0.82	0.23	91,91,91,91	0
55	MG	BA	3505	1/1	0.82	0.23	61,61,61,61	0
55	MG	AA	1723	1/1	0.82	0.20	93,93,93,93	0
55	MG	DA	3257	1/1	0.82	0.41	77,77,77,77	0
55	MG	AA	1721	1/1	0.82	0.29	60,60,60,60	0
55	MG	BA	3217	1/1	0.82	0.34	40,40,40,40	0
55	MG	CA	1627	1/1	0.82	0.17	140,140,140,140	0
55	MG	DA	3271	1/1	0.82	0.21	71,71,71,71	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3516	1/1	0.82	0.37	88,88,88,88	0
55	MG	BA	3459	1/1	0.82	0.36	81,81,81,81	0
55	MG	BA	3348	1/1	0.82	0.18	96,96,96,96	0
55	MG	BA	3091	1/1	0.83	0.44	73,73,73,73	0
55	MG	BA	3127	1/1	0.83	0.42	73,73,73,73	0
55	MG	BE	301	1/1	0.83	0.12	57,57,57,57	0
55	MG	DA	3416	1/1	0.83	0.49	77,77,77,77	0
55	MG	CA	1775	1/1	0.83	0.46	69,69,69,69	0
55	MG	DA	3412	1/1	0.83	0.29	92,92,92,92	0
55	MG	DA	3371	1/1	0.83	0.22	122,122,122,122	0
55	MG	DA	3038	1/1	0.83	0.21	73,73,73,73	0
55	MG	BA	3102	1/1	0.83	0.26	68,68,68,68	0
55	MG	DA	3267	1/1	0.83	0.47	80,80,80,80	0
55	MG	DA	3132	1/1	0.83	0.20	77,77,77,77	0
55	MG	AA	1629	1/1	0.83	0.12	95,95,95,95	0
55	MG	DA	3212	1/1	0.83	0.30	121,121,121,121	0
55	MG	BA	3427	1/1	0.83	0.45	97,97,97,97	0
55	MG	BA	3381	1/1	0.83	0.52	87,87,87,87	0
55	MG	DD	302	1/1	0.83	0.27	82,82,82,82	0
55	MG	BA	3229	1/1	0.83	0.38	65,65,65,65	0
55	MG	BA	3400	1/1	0.83	0.54	108,108,108,108	0
55	MG	DA	3127	1/1	0.83	0.36	73,73,73,73	0
55	MG	BA	3299	1/1	0.83	0.27	66,66,66,66	0
55	MG	AA	1699	1/1	0.83	0.16	99,99,99,99	0
55	MG	DA	3418	1/1	0.83	0.18	85,85,85,85	0
55	MG	CA	1611	1/1	0.83	0.35	82,82,82,82	0
55	MG	CA	1755	1/1	0.83	0.35	104,104,104,104	0
55	MG	DA	3363	1/1	0.83	0.21	78,78,78,78	0
55	MG	BA	3449	1/1	0.83	0.39	100,100,100,100	0
55	MG	CG	302	1/1	0.83	0.12	89,89,89,89	0
55	MG	BA	3498	1/1	0.83	0.27	40,40,40,40	0
55	MG	DA	3419	1/1	0.83	0.22	87,87,87,87	0
55	MG	BA	3206	1/1	0.83	0.26	68,68,68,68	0
55	MG	BA	3328	1/1	0.83	0.22	52,52,52,52	0
55	MG	BA	3287	1/1	0.83	0.28	60,60,60,60	0
55	MG	DA	3415	1/1	0.84	0.34	85,85,85,85	0
55	MG	AA	1782	1/1	0.84	0.12	118,118,118,118	0
55	MG	BA	3276	1/1	0.84	0.22	92,92,92,92	0
55	MG	BA	3247	1/1	0.84	0.32	97,97,97,97	0
55	MG	BA	3147	1/1	0.84	0.33	47,47,47,47	0
55	MG	BA	3198	1/1	0.84	0.18	74,74,74,74	0
55	MG	DA	3146	1/1	0.84	0.10	89,89,89,89	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3256	1/1	0.84	0.44	80,80,80,80	0
55	MG	CA	1774	1/1	0.84	0.22	75,75,75,75	0
55	MG	BA	3437	1/1	0.84	0.32	97,97,97,97	0
55	MG	BA	3172	1/1	0.84	0.44	74,74,74,74	0
55	MG	CA	1818	1/1	0.84	0.41	81,81,81,81	0
55	MG	BA	3121	1/1	0.84	0.33	72,72,72,72	0
55	MG	BA	3180	1/1	0.84	0.22	91,91,91,91	0
55	MG	AA	1794	1/1	0.84	0.49	112,112,112,112	0
55	MG	BA	3355	1/1	0.84	0.25	95,95,95,95	0
55	MG	BA	3443	1/1	0.84	0.23	125,125,125,125	0
55	MG	BA	3330	1/1	0.84	0.24	61,61,61,61	0
55	MG	BA	3359	1/1	0.84	0.49	78,78,78,78	0
55	MG	DA	3340	1/1	0.84	0.27	75,75,75,75	0
55	MG	DA	3215	1/1	0.84	0.31	83,83,83,83	0
55	MG	CA	1800	1/1	0.84	0.28	99,99,99,99	0
55	MG	BA	3346	1/1	0.84	0.53	69,69,69,69	0
55	MG	DB	220	1/1	0.84	0.13	121,121,121,121	0
55	MG	DA	3149	1/1	0.84	0.22	93,93,93,93	0
55	MG	DA	3126	1/1	0.84	0.17	63,63,63,63	0
55	MG	DA	3305	1/1	0.84	0.15	93,93,93,93	0
55	MG	BB	207	1/1	0.84	0.19	109,109,109,109	0
55	MG	DA	3298	1/1	0.84	0.28	80,80,80,80	0
55	MG	CA	1760	1/1	0.84	0.24	105,105,105,105	0
55	MG	AA	1693	1/1	0.84	0.31	72,72,72,72	0
55	MG	CA	1744	1/1	0.84	0.28	73,73,73,73	0
55	MG	CA	1726	1/1	0.84	0.10	73,73,73,73	0
55	MG	CA	1650	1/1	0.84	0.17	78,78,78,78	0
55	MG	DA	3190	1/1	0.84	0.33	66,66,66,66	0
55	MG	BA	3466	1/1	0.85	0.62	92,92,92,92	0
55	MG	CA	1783	1/1	0.85	0.13	87,87,87,87	0
55	MG	AA	1647	1/1	0.85	0.31	81,81,81,81	0
55	MG	BA	3064	1/1	0.85	0.31	87,87,87,87	0
55	MG	BA	3357	1/1	0.85	0.41	78,78,78,78	0
55	MG	DA	3466	1/1	0.85	0.17	81,81,81,81	0
55	MG	DA	3364	1/1	0.85	0.12	93,93,93,93	0
55	MG	DA	3233	1/1	0.85	0.33	90,90,90,90	0
55	MG	CA	1654	1/1	0.85	0.25	78,78,78,78	0
55	MG	AA	1701	1/1	0.85	0.57	87,87,87,87	0
55	MG	BA	3045	1/1	0.85	0.35	105,105,105,105	0
55	MG	BA	3419	1/1	0.85	0.49	80,80,80,80	0
55	MG	CA	1625	1/1	0.85	0.23	104,104,104,104	0
55	MG	BA	3418	1/1	0.85	0.28	82,82,82,82	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	DA	3333	1/1	0.85	0.31	95,95,95,95	0
55	MG	BA	3307	1/1	0.85	0.47	79,79,79,79	0
55	MG	CA	1686	1/1	0.85	0.24	77,77,77,77	0
55	MG	BA	3325	1/1	0.85	0.22	81,81,81,81	0
55	MG	AB	103	1/1	0.85	0.34	104,104,104,104	0
55	MG	BB	214	1/1	0.85	0.31	76,76,76,76	0
55	MG	AG	301	1/1	0.85	0.23	98,98,98,98	0
55	MG	BA	3368	1/1	0.85	0.29	59,59,59,59	0
55	MG	BA	3251	1/1	0.85	0.43	80,80,80,80	0
55	MG	AA	1711	1/1	0.85	0.17	97,97,97,97	0
55	MG	DA	3403	1/1	0.85	0.32	107,107,107,107	0
55	MG	BA	3297	1/1	0.85	0.21	86,86,86,86	0
55	MG	DB	203	1/1	0.85	0.09	111,111,111,111	0
55	MG	CA	1640	1/1	0.85	0.31	89,89,89,89	0
55	MG	AA	1640	1/1	0.85	0.35	71,71,71,71	0
55	MG	BA	3394	1/1	0.85	0.43	80,80,80,80	0
55	MG	DA	3184	1/1	0.85	0.36	78,78,78,78	0
55	MG	AA	1700	1/1	0.85	0.17	136,136,136,136	0
55	MG	BA	3310	1/1	0.85	0.29	76,76,76,76	0
55	MG	BA	3249	1/1	0.85	0.17	82,82,82,82	0
55	MG	BA	3265	1/1	0.85	0.14	89,89,89,89	0
55	MG	BA	3302	1/1	0.85	0.23	83,83,83,83	0
55	MG	CA	1787	1/1	0.86	0.45	84,84,84,84	0
55	MG	DA	3464	1/1	0.86	0.31	90,90,90,90	0
55	MG	BA	3123	1/1	0.86	0.33	81,81,81,81	0
55	MG	BA	3183	1/1	0.86	0.45	84,84,84,84	0
55	MG	DA	3224	1/1	0.86	0.20	75,75,75,75	0
55	MG	DA	3150	1/1	0.86	0.49	77,77,77,77	0
55	MG	DA	3434	1/1	0.86	0.19	73,73,73,73	0
55	MG	BA	3447	1/1	0.86	0.42	72,72,72,72	0
55	MG	CA	1784	1/1	0.86	0.11	92,92,92,92	0
55	MG	DA	3211	1/1	0.86	0.35	79,79,79,79	0
55	MG	CA	1618	1/1	0.86	0.18	95,95,95,95	0
55	MG	DA	3329	1/1	0.86	0.26	71,71,71,71	0
55	MG	B1	201	1/1	0.86	0.27	71,71,71,71	0
55	MG	B3	101	1/1	0.86	0.43	81,81,81,81	0
55	MG	CA	1730	1/1	0.86	0.15	79,79,79,79	0
55	MG	DA	3147	1/1	0.86	0.22	87,87,87,87	0
55	MG	AS	101	1/1	0.86	0.23	96,96,96,96	0
55	MG	BA	3112	1/1	0.86	0.48	73,73,73,73	0
55	MG	AA	1739	1/1	0.86	0.36	82,82,82,82	0
55	MG	DA	3213	1/1	0.86	0.18	103,103,103,103	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	DA	3104	1/1	0.86	0.34	62,62,62,62	0
55	MG	BA	3154	1/1	0.86	0.50	87,87,87,87	0
55	MG	DA	3352	1/1	0.86	0.27	122,122,122,122	0
55	MG	AA	1638	1/1	0.86	0.36	105,105,105,105	0
55	MG	DA	3375	1/1	0.86	0.13	86,86,86,86	0
55	MG	AA	1737	1/1	0.86	0.26	81,81,81,81	0
55	MG	BA	3219	1/1	0.86	0.33	68,68,68,68	0
55	MG	DA	3339	1/1	0.86	0.44	104,104,104,104	0
55	MG	CA	1628	1/1	0.86	0.21	123,123,123,123	0
55	MG	DA	3396	1/1	0.87	0.28	76,76,76,76	0
55	MG	DA	3338	1/1	0.87	0.33	69,69,69,69	0
55	MG	AA	1644	1/1	0.87	0.36	94,94,94,94	0
55	MG	DA	3197	1/1	0.87	0.27	48,48,48,48	0
55	MG	AA	1639	1/1	0.87	0.28	84,84,84,84	0
55	MG	CA	1685	1/1	0.87	0.36	91,91,91,91	0
55	MG	DA	3033	1/1	0.87	0.26	83,83,83,83	0
55	MG	BB	206	1/1	0.87	0.19	79,79,79,79	0
55	MG	CA	1789	1/1	0.87	0.14	71,71,71,71	0
55	MG	BA	3535	1/1	0.87	0.32	82,82,82,82	0
55	MG	DA	3095	1/1	0.87	0.27	89,89,89,89	0
55	MG	DB	205	1/1	0.87	0.33	73,73,73,73	0
55	MG	BA	3388	1/1	0.87	0.39	76,76,76,76	0
55	MG	BA	3071	1/1	0.87	0.27	63,63,63,63	0
55	MG	BA	3199	1/1	0.87	0.27	65,65,65,65	0
55	MG	CA	1785	1/1	0.87	0.40	155,155,155,155	0
55	MG	BA	3332	1/1	0.87	0.37	76,76,76,76	0
55	MG	BA	3135	1/1	0.87	0.41	69,69,69,69	0
55	MG	BA	3508	1/1	0.87	0.33	77,77,77,77	0
55	MG	DA	3265	1/1	0.87	0.36	76,76,76,76	0
55	MG	BA	3246	1/1	0.87	0.23	89,89,89,89	0
55	MG	BA	3090	1/1	0.87	0.26	40,40,40,40	0
55	MG	DA	3086	1/1	0.87	0.47	75,75,75,75	0
55	MG	DA	3287	1/1	0.87	0.46	120,120,120,120	0
55	MG	BA	3336	1/1	0.87	0.20	78,78,78,78	0
55	MG	CA	1649	1/1	0.87	0.42	77,77,77,77	0
55	MG	BA	3486	1/1	0.87	0.28	42,42,42,42	0
55	MG	DA	3292	1/1	0.87	0.39	98,98,98,98	0
55	MG	CA	1691	1/1	0.87	0.19	90,90,90,90	0
55	MG	BA	3342	1/1	0.87	0.25	66,66,66,66	0
55	MG	BA	3329	1/1	0.87	0.63	67,67,67,67	0
55	MG	BB	218	1/1	0.87	0.21	98,98,98,98	0
55	MG	BA	3511	1/1	0.87	0.15	83,83,83,83	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3409	1/1	0.87	0.38	98,98,98,98	0
55	MG	BA	3556	1/1	0.88	0.23	98,98,98,98	0
55	MG	AA	1709	1/1	0.88	0.24	56,56,56,56	0
55	MG	AA	1605	1/1	0.88	0.26	75,75,75,75	0
55	MG	CA	1668	1/1	0.88	0.42	72,72,72,72	0
55	MG	BA	3390	1/1	0.88	0.38	98,98,98,98	0
55	MG	DA	3323	1/1	0.88	0.91	104,104,104,104	0
55	MG	DA	3251	1/1	0.88	0.34	79,79,79,79	0
55	MG	CA	1735	1/1	0.88	0.41	119,119,119,119	0
55	MG	DA	3264	1/1	0.88	0.40	88,88,88,88	0
55	MG	BA	3098	1/1	0.88	0.38	88,88,88,88	0
55	MG	AA	1745	1/1	0.88	0.28	83,83,83,83	0
55	MG	BA	3350	1/1	0.88	0.48	92,92,92,92	0
55	MG	BA	3240	1/1	0.88	0.30	73,73,73,73	0
55	MG	DA	3173	1/1	0.88	0.27	90,90,90,90	0
55	MG	AB	101	1/1	0.88	0.18	92,92,92,92	0
55	MG	CA	1712	1/1	0.88	0.42	76,76,76,76	0
55	MG	BA	3360	1/1	0.88	0.38	81,81,81,81	0
55	MG	AA	1760	1/1	0.88	0.35	77,77,77,77	0
55	MG	BA	3567	1/1	0.88	0.21	99,99,99,99	0
55	MG	BA	3126	1/1	0.88	0.63	95,95,95,95	0
55	MG	DA	3201	1/1	0.88	0.33	76,76,76,76	0
55	MG	DA	3356	1/1	0.88	0.36	76,76,76,76	0
55	MG	BA	3431	1/1	0.88	0.18	66,66,66,66	0
55	MG	DA	3394	1/1	0.88	0.30	101,101,101,101	0
55	MG	BA	3185	1/1	0.88	0.17	46,46,46,46	0
55	MG	DA	3165	1/1	0.88	0.45	73,73,73,73	0
55	MG	BA	3220	1/1	0.88	0.28	70,70,70,70	0
55	MG	DA	3345	1/1	0.88	0.24	85,85,85,85	0
55	MG	BA	3559	1/1	0.88	0.26	86,86,86,86	0
55	MG	CA	1732	1/1	0.88	0.36	105,105,105,105	0
55	MG	BA	3278	1/1	0.88	0.69	92,92,92,92	0
55	MG	CA	1801	1/1	0.88	0.23	81,81,81,81	0
55	MG	DA	3436	1/1	0.88	0.16	66,66,66,66	0
55	MG	CA	1661	1/1	0.88	0.24	92,92,92,92	0
55	MG	DA	3235	1/1	0.88	0.33	69,69,69,69	0
55	MG	BA	3517	1/1	0.88	0.37	69,69,69,69	0
55	MG	DA	3311	1/1	0.88	0.20	109,109,109,109	0
55	MG	DB	213	1/1	0.88	0.15	99,99,99,99	0
55	MG	DA	3355	1/1	0.88	0.39	83,83,83,83	0
55	MG	AA	1732	1/1	0.88	0.32	95,95,95,95	0
55	MG	BA	3177	1/1	0.88	0.22	34,34,34,34	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3375	1/1	0.88	0.23	87,87,87,87	0
55	MG	CA	1656	1/1	0.88	0.33	72,72,72,72	0
55	MG	DA	3302	1/1	0.88	0.31	69,69,69,69	0
55	MG	BA	3405	1/1	0.88	0.21	82,82,82,82	0
55	MG	DA	3084	1/1	0.89	0.37	57,57,57,57	0
55	MG	DA	3077	1/1	0.89	0.38	72,72,72,72	0
55	MG	DA	3331	1/1	0.89	0.31	91,91,91,91	0
55	MG	BA	3179	1/1	0.89	0.40	72,72,72,72	0
55	MG	BA	3402	1/1	0.89	0.25	76,76,76,76	0
55	MG	BA	3488	1/1	0.89	0.30	137,137,137,137	0
55	MG	DA	3475	1/1	0.89	0.28	62,62,62,62	0
55	MG	BA	3554	1/1	0.89	0.28	48,48,48,48	0
55	MG	BA	3083	1/1	0.89	0.50	47,47,47,47	0
55	MG	BA	3536	1/1	0.89	0.12	37,37,37,37	0
55	MG	BA	3434	1/1	0.89	0.40	69,69,69,69	0
55	MG	DA	3016	1/1	0.89	0.28	78,78,78,78	0
55	MG	DA	3087	1/1	0.89	0.27	85,85,85,85	0
55	MG	BA	3225	1/1	0.89	0.37	68,68,68,68	0
55	MG	DA	3202	1/1	0.89	0.34	67,67,67,67	0
55	MG	BA	3351	1/1	0.89	0.25	88,88,88,88	0
55	MG	AA	1608	1/1	0.89	0.29	65,65,65,65	0
55	MG	CA	1629	1/1	0.89	0.21	115,115,115,115	0
55	MG	DA	3239	1/1	0.89	0.33	92,92,92,92	0
55	MG	DA	3473	1/1	0.89	0.15	56,56,56,56	0
55	MG	BA	3282	1/1	0.89	0.44	103,103,103,103	0
55	MG	BA	3304	1/1	0.89	0.37	80,80,80,80	0
55	MG	BF	303	1/1	0.89	0.45	78,78,78,78	0
55	MG	DA	3071	1/1	0.89	0.39	57,57,57,57	0
55	MG	BA	3285	1/1	0.89	0.41	102,102,102,102	0
55	MG	DA	3268	1/1	0.89	0.26	77,77,77,77	0
55	MG	AA	1742	1/1	0.89	0.27	88,88,88,88	0
55	MG	CA	1690	1/1	0.89	0.16	90,90,90,90	0
55	MG	DA	3075	1/1	0.89	0.31	57,57,57,57	0
55	MG	DA	3178	1/1	0.89	0.25	88,88,88,88	0
55	MG	DA	3440	1/1	0.89	0.09	81,81,81,81	0
55	MG	DA	3367	1/1	0.89	0.32	82,82,82,82	0
55	MG	BA	3168	1/1	0.89	0.36	47,47,47,47	0
55	MG	AA	1650	1/1	0.89	0.30	80,80,80,80	0
55	MG	BA	3216	1/1	0.89	0.26	53,53,53,53	0
55	MG	AA	1761	1/1	0.89	0.32	77,77,77,77	0
55	MG	BA	3080	1/1	0.89	0.29	64,64,64,64	0
55	MG	BA	3392	1/1	0.89	0.32	78,78,78,78	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1738	1/1	0.90	0.40	113,113,113,113	0
55	MG	AA	1677	1/1	0.90	0.42	73,73,73,73	0
55	MG	BA	3403	1/1	0.90	0.39	71,71,71,71	0
55	MG	CA	1770	1/1	0.90	0.38	82,82,82,82	0
55	MG	DA	3478	1/1	0.90	0.15	89,89,89,89	0
55	MG	DA	3017	1/1	0.90	0.26	90,90,90,90	0
55	MG	DA	3240	1/1	0.90	0.19	55,55,55,55	0
55	MG	BA	3074	1/1	0.90	0.17	91,91,91,91	0
55	MG	BA	3104	1/1	0.90	0.31	82,82,82,82	0
55	MG	DA	3074	1/1	0.90	0.35	65,65,65,65	0
55	MG	BA	3408	1/1	0.90	0.14	82,82,82,82	0
55	MG	BA	3086	1/1	0.90	0.32	56,56,56,56	0
55	MG	CA	1720	1/1	0.90	0.35	68,68,68,68	0
55	MG	BA	3207	1/1	0.90	0.55	70,70,70,70	0
55	MG	BB	212	1/1	0.90	0.45	74,74,74,74	0
55	MG	DA	3234	1/1	0.90	0.44	73,73,73,73	0
55	MG	BA	3026	1/1	0.90	0.32	43,43,43,43	0
55	MG	BA	3468	1/1	0.90	0.38	78,78,78,78	0
55	MG	CA	1765	1/1	0.90	0.22	115,115,115,115	0
55	MG	DA	3284	1/1	0.90	0.19	90,90,90,90	0
55	MG	DA	3060	1/1	0.90	0.33	67,67,67,67	0
55	MG	BB	216	1/1	0.90	0.41	63,63,63,63	0
55	MG	DA	3119	1/1	0.90	0.38	65,65,65,65	0
55	MG	AC	108	1/1	0.90	0.15	82,82,82,82	0
55	MG	BA	3362	1/1	0.90	0.21	84,84,84,84	0
55	MG	BA	3205	1/1	0.90	0.18	59,59,59,59	0
55	MG	CA	1766	1/1	0.90	0.17	114,114,114,114	0
55	MG	CA	1782	1/1	0.90	0.14	113,113,113,113	0
55	MG	BB	202	1/1	0.90	0.22	74,74,74,74	0
55	MG	CA	1794	1/1	0.90	0.10	67,67,67,67	0
55	MG	AA	1609	1/1	0.90	0.39	88,88,88,88	0
55	MG	BA	3049	1/1	0.90	0.23	75,75,75,75	0
55	MG	BA	3506	1/1	0.90	0.24	73,73,73,73	0
55	MG	CA	1662	1/1	0.90	0.43	84,84,84,84	0
55	MG	DA	3064	1/1	0.90	0.32	70,70,70,70	0
55	MG	BA	3175	1/1	0.90	0.30	62,62,62,62	0
55	MG	DA	3465	1/1	0.90	0.20	112,112,112,112	0
55	MG	DA	3141	1/1	0.90	0.29	101,101,101,101	0
55	MG	DA	3158	1/1	0.90	0.38	80,80,80,80	0
55	MG	CA	1717	1/1	0.90	0.39	73,73,73,73	0
55	MG	DA	3217	1/1	0.90	0.15	125,125,125,125	0
55	MG	DA	3143	1/1	0.90	0.31	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	3485	1/1	0.90	0.34	84,84,84,84	0
55	MG	BA	3280	1/1	0.90	0.41	80,80,80,80	0
55	MG	DA	3156	1/1	0.90	0.27	78,78,78,78	0
55	MG	BA	3201	1/1	0.90	0.41	64,64,64,64	0
55	MG	DA	3117	1/1	0.90	0.25	61,61,61,61	0
55	MG	AA	1787	1/1	0.90	0.33	101,101,101,101	0
55	MG	AA	1740	1/1	0.90	0.45	76,76,76,76	0
55	MG	DA	3317	1/1	0.90	0.32	58,58,58,58	0
55	MG	DA	3052	1/1	0.90	0.16	78,78,78,78	0
55	MG	DA	3303	1/1	0.90	0.19	76,76,76,76	0
55	MG	BA	3458	1/1	0.90	0.32	91,91,91,91	0
55	MG	DA	3297	1/1	0.90	0.42	82,82,82,82	0
55	MG	AA	1790	1/1	0.90	0.27	79,79,79,79	0
55	MG	CC	101	1/1	0.90	0.33	77,77,77,77	0
55	MG	BA	3533	1/1	0.90	0.33	91,91,91,91	0
55	MG	BA	3321	1/1	0.90	0.46	88,88,88,88	0
55	MG	BA	3204	1/1	0.91	0.16	56,56,56,56	0
55	MG	DA	3230	1/1	0.91	0.32	74,74,74,74	0
55	MG	BA	3113	1/1	0.91	0.31	47,47,47,47	0
55	MG	BA	3507	1/1	0.91	0.29	79,79,79,79	0
55	MG	DB	214	1/1	0.91	0.10	95,95,95,95	0
55	MG	CA	1642	1/1	0.91	0.20	83,83,83,83	0
55	MG	BA	3227	1/1	0.91	0.43	64,64,64,64	0
55	MG	DA	3236	1/1	0.91	0.39	62,62,62,62	0
55	MG	DA	3138	1/1	0.91	0.35	54,54,54,54	0
55	MG	DA	3122	1/1	0.91	0.41	69,69,69,69	0
55	MG	BA	3542	1/1	0.91	0.36	85,85,85,85	0
55	MG	DA	3337	1/1	0.91	0.28	86,86,86,86	0
55	MG	BA	3417	1/1	0.91	0.58	86,86,86,86	0
55	MG	BA	3023	1/1	0.91	0.48	64,64,64,64	0
55	MG	DA	3216	1/1	0.91	0.33	90,90,90,90	0
55	MG	BA	3184	1/1	0.91	0.46	46,46,46,46	0
55	MG	BA	3093	1/1	0.91	0.35	57,57,57,57	0
55	MG	DA	3128	1/1	0.91	0.30	47,47,47,47	0
55	MG	BA	3052	1/1	0.91	0.24	66,66,66,66	0
55	MG	BA	3356	1/1	0.91	0.32	60,60,60,60	0
55	MG	DA	3424	1/1	0.91	0.24	83,83,83,83	0
55	MG	BA	3313	1/1	0.91	0.23	74,74,74,74	0
55	MG	DA	3223	1/1	0.91	0.16	81,81,81,81	0
55	MG	BA	3048	1/1	0.91	0.24	60,60,60,60	0
55	MG	BA	3257	1/1	0.91	0.29	87,87,87,87	0
55	MG	BA	3398	1/1	0.91	0.17	57,57,57,57	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3236	1/1	0.91	0.38	67,67,67,67	0
55	MG	BA	3562	1/1	0.91	0.42	91,91,91,91	0
55	MG	BA	3284	1/1	0.91	0.43	75,75,75,75	0
55	MG	DA	3025	1/1	0.91	0.13	70,70,70,70	0
55	MG	CA	1719	1/1	0.91	0.26	91,91,91,91	0
55	MG	AA	1734	1/1	0.91	0.44	93,93,93,93	0
55	MG	DA	3021	1/1	0.91	0.20	77,77,77,77	0
55	MG	CA	1754	1/1	0.91	0.37	92,92,92,92	0
55	MG	BA	3218	1/1	0.91	0.26	64,64,64,64	0
55	MG	AA	1774	1/1	0.91	0.52	69,69,69,69	0
55	MG	DA	3452	1/1	0.91	0.29	52,52,52,52	0
55	MG	CA	1705	1/1	0.91	0.20	101,101,101,101	0
55	MG	BA	3033	1/1	0.91	0.37	77,77,77,77	0
55	MG	CC	102	1/1	0.91	0.31	85,85,85,85	0
55	MG	CA	1632	1/1	0.91	0.17	53,53,53,53	0
55	MG	BA	3141	1/1	0.91	0.29	78,78,78,78	0
55	MG	BA	3481	1/1	0.91	0.22	97,97,97,97	0
55	MG	CA	1721	1/1	0.91	0.19	82,82,82,82	0
55	MG	DA	3214	1/1	0.91	0.30	76,76,76,76	0
55	MG	CA	1657	1/1	0.91	0.34	68,68,68,68	0
55	MG	DA	3203	1/1	0.91	0.30	74,74,74,74	0
55	MG	DA	3435	1/1	0.91	0.20	51,51,51,51	0
55	MG	DA	3289	1/1	0.91	0.39	62,62,62,62	0
55	MG	AA	1752	1/1	0.92	0.37	67,67,67,67	0
55	MG	DA	3431	1/1	0.92	0.24	69,69,69,69	0
55	MG	BA	3370	1/1	0.92	0.26	78,78,78,78	0
55	MG	DA	3241	1/1	0.92	0.32	75,75,75,75	0
55	MG	DA	3018	1/1	0.92	0.26	46,46,46,46	0
55	MG	BA	3129	1/1	0.92	0.42	50,50,50,50	0
55	MG	AA	1789	1/1	0.92	0.35	63,63,63,63	0
55	MG	DA	3037	1/1	0.92	0.12	71,71,71,71	0
55	MG	BA	3522	1/1	0.92	0.42	45,45,45,45	0
55	MG	AA	1676	1/1	0.92	0.35	89,89,89,89	0
55	MG	DA	3244	1/1	0.92	0.39	80,80,80,80	0
55	MG	DA	3115	1/1	0.92	0.45	64,64,64,64	0
55	MG	DA	3029	1/1	0.92	0.32	82,82,82,82	0
55	MG	BA	3553	1/1	0.92	0.27	49,49,49,49	0
55	MG	BA	3105	1/1	0.92	0.18	71,71,71,71	0
55	MG	CA	1636	1/1	0.92	0.31	53,53,53,53	0
55	MG	AA	1620	1/1	0.92	0.28	69,69,69,69	0
55	MG	AA	1668	1/1	0.92	0.43	68,68,68,68	0
55	MG	BA	3133	1/1	0.92	0.26	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1651	1/1	0.92	0.35	77,77,77,77	0
55	MG	DA	3447	1/1	0.92	0.27	92,92,92,92	0
55	MG	BA	3345	1/1	0.92	0.26	46,46,46,46	0
55	MG	CA	1723	1/1	0.92	0.20	90,90,90,90	0
55	MG	DA	3058	1/1	0.92	0.34	53,53,53,53	0
55	MG	BA	3272	1/1	0.92	0.22	59,59,59,59	0
55	MG	DB	201	1/1	0.92	0.18	92,92,92,92	0
55	MG	BA	3228	1/1	0.92	0.54	82,82,82,82	0
55	MG	CA	1681	1/1	0.92	0.35	89,89,89,89	0
55	MG	DA	3094	1/1	0.92	0.26	48,48,48,48	0
55	MG	AA	1769	1/1	0.92	0.18	95,95,95,95	0
55	MG	DA	3148	1/1	0.92	0.14	111,111,111,111	0
55	MG	CA	1624	1/1	0.92	0.17	93,93,93,93	0
55	MG	BA	3478	1/1	0.92	0.33	61,61,61,61	0
55	MG	BA	3308	1/1	0.92	0.12	63,63,63,63	0
55	MG	DA	3487	1/1	0.92	0.22	85,85,85,85	0
55	MG	CA	1635	1/1	0.92	0.29	72,72,72,72	0
55	MG	BA	3337	1/1	0.92	0.45	52,52,52,52	0
55	MG	DA	3361	1/1	0.92	0.10	89,89,89,89	0
55	MG	AA	1660	1/1	0.92	0.43	77,77,77,77	0
55	MG	DA	3429	1/1	0.93	0.31	54,54,54,54	0
55	MG	DA	3266	1/1	0.93	0.44	82,82,82,82	0
55	MG	DA	3453	1/1	0.93	0.41	65,65,65,65	0
55	MG	CA	1626	1/1	0.93	0.31	69,69,69,69	0
55	MG	BA	3298	1/1	0.93	0.40	66,66,66,66	0
55	MG	BA	3534	1/1	0.93	0.24	69,69,69,69	0
55	MG	DA	3103	1/1	0.93	0.36	60,60,60,60	0
55	MG	BA	3493	1/1	0.93	0.35	51,51,51,51	0
55	MG	AA	1679	1/1	0.93	0.42	83,83,83,83	0
55	MG	DA	3008	1/1	0.93	0.32	57,57,57,57	0
55	MG	D0	201	1/1	0.93	0.22	63,63,63,63	0
55	MG	DA	3106	1/1	0.93	0.33	57,57,57,57	0
55	MG	BA	3305	1/1	0.93	0.50	94,94,94,94	0
55	MG	DA	3195	1/1	0.93	0.28	82,82,82,82	0
55	MG	DA	3020	1/1	0.93	0.22	45,45,45,45	0
55	MG	AA	1793	1/1	0.93	0.20	87,87,87,87	0
55	MG	BA	3007	1/1	0.93	0.31	36,36,36,36	0
55	MG	BA	3047	1/1	0.93	0.20	46,46,46,46	0
55	MG	BA	3076	1/1	0.93	0.39	81,81,81,81	0
55	MG	BA	3196	1/1	0.93	0.22	103,103,103,103	0
55	MG	CA	1613	1/1	0.93	0.25	84,84,84,84	0
55	MG	BA	3067	1/1	0.93	0.27	79,79,79,79	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BB	205	1/1	0.93	0.29	71,71,71,71	0
55	MG	DA	3048	1/1	0.93	0.36	76,76,76,76	0
55	MG	DA	3072	1/1	0.93	0.40	65,65,65,65	0
55	MG	DA	3123	1/1	0.93	0.43	50,50,50,50	0
55	MG	CA	1665	1/1	0.93	0.32	70,70,70,70	0
55	MG	AA	1614	1/1	0.93	0.29	92,92,92,92	0
55	MG	AA	1645	1/1	0.93	0.13	65,65,65,65	0
55	MG	CA	1631	1/1	0.93	0.27	65,65,65,65	0
55	MG	BA	3500	1/1	0.93	0.49	64,64,64,64	0
55	MG	CA	1802	1/1	0.93	0.24	73,73,73,73	0
55	MG	DA	3432	1/1	0.93	0.29	64,64,64,64	0
55	MG	DA	3057	1/1	0.93	0.31	56,56,56,56	0
55	MG	DA	3014	1/1	0.93	0.35	76,76,76,76	0
55	MG	DA	3220	1/1	0.93	0.31	64,64,64,64	0
55	MG	DA	3226	1/1	0.93	0.28	85,85,85,85	0
55	MG	DA	3460	1/1	0.93	0.27	116,116,116,116	0
55	MG	DA	3026	1/1	0.93	0.28	73,73,73,73	0
55	MG	AA	1616	1/1	0.93	0.10	110,110,110,110	0
55	MG	DA	3034	1/1	0.93	0.28	76,76,76,76	0
55	MG	BA	3028	1/1	0.93	0.33	52,52,52,52	0
55	MG	BA	3081	1/1	0.93	0.49	91,91,91,91	0
55	MG	AA	1705	1/1	0.93	0.31	81,81,81,81	0
55	MG	BA	3441	1/1	0.93	0.29	84,84,84,84	0
55	MG	BA	3057	1/1	0.93	0.21	46,46,46,46	0
55	MG	DA	3260	1/1	0.93	0.35	73,73,73,73	0
55	MG	BA	3214	1/1	0.93	0.42	58,58,58,58	0
55	MG	DA	3276	1/1	0.93	0.13	81,81,81,81	0
55	MG	BA	3010	1/1	0.93	0.38	45,45,45,45	0
55	MG	BA	3029	1/1	0.93	0.22	57,57,57,57	0
55	MG	DA	3022	1/1	0.93	0.27	74,74,74,74	0
55	MG	AA	1655	1/1	0.94	0.41	78,78,78,78	0
55	MG	DA	3348	1/1	0.94	0.19	56,56,56,56	0
55	MG	BA	3111	1/1	0.94	0.21	55,55,55,55	0
55	MG	DA	3160	1/1	0.94	0.34	59,59,59,59	0
55	MG	BA	3407	1/1	0.94	0.26	73,73,73,73	0
55	MG	AA	1636	1/1	0.94	0.28	95,95,95,95	0
55	MG	DA	3313	1/1	0.94	0.23	84,84,84,84	0
55	MG	DA	3449	1/1	0.94	0.28	66,66,66,66	0
55	MG	BA	3538	1/1	0.94	0.23	79,79,79,79	0
55	MG	BA	3094	1/1	0.94	0.37	68,68,68,68	0
55	MG	BA	3166	1/1	0.94	0.23	28,28,28,28	0
55	MG	DA	3272	1/1	0.94	0.46	68,68,68,68	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	CA	1614	1/1	0.94	0.29	79,79,79,79	0
55	MG	CA	1620	1/1	0.94	0.14	64,64,64,64	0
55	MG	BA	3153	1/1	0.94	0.47	78,78,78,78	0
55	MG	BA	3541	1/1	0.94	0.21	66,66,66,66	0
55	MG	DA	3068	1/1	0.94	0.31	54,54,54,54	0
55	MG	DA	3013	1/1	0.94	0.25	51,51,51,51	0
55	MG	BA	3131	1/1	0.94	0.38	41,41,41,41	0
55	MG	BA	3116	1/1	0.94	0.47	50,50,50,50	0
55	MG	BA	3070	1/1	0.94	0.28	68,68,68,68	0
55	MG	BA	3339	1/1	0.94	0.37	74,74,74,74	0
55	MG	DA	3028	1/1	0.94	0.30	73,73,73,73	0
55	MG	DA	3164	1/1	0.94	0.26	67,67,67,67	0
55	MG	AA	1603	1/1	0.94	0.25	65,65,65,65	0
55	MG	DA	3062	1/1	0.94	0.17	39,39,39,39	0
55	MG	BA	3532	1/1	0.94	0.41	54,54,54,54	0
55	MG	CA	1714	1/1	0.94	0.24	87,87,87,87	0
55	MG	CA	1606	1/1	0.94	0.19	65,65,65,65	0
55	MG	BA	3235	1/1	0.94	0.38	39,39,39,39	0
55	MG	DA	3110	1/1	0.94	0.14	61,61,61,61	0
55	MG	BA	3108	1/1	0.94	0.38	58,58,58,58	0
55	MG	CA	1659	1/1	0.94	0.41	75,75,75,75	0
55	MG	CA	1604	1/1	0.94	0.20	60,60,60,60	0
55	MG	DA	3083	1/1	0.94	0.10	65,65,65,65	0
55	MG	DA	3249	1/1	0.94	0.07	81,81,81,81	0
55	MG	DA	3182	1/1	0.94	0.27	47,47,47,47	0
55	MG	DA	3032	1/1	0.94	0.29	77,77,77,77	0
55	MG	DA	3069	1/1	0.94	0.42	76,76,76,76	0
55	MG	BA	3255	1/1	0.94	0.41	50,50,50,50	0
55	MG	DA	3175	1/1	0.94	0.38	60,60,60,60	0
55	MG	BA	3525	1/1	0.94	0.32	51,51,51,51	0
55	MG	DA	3151	1/1	0.94	0.33	78,78,78,78	0
55	MG	DA	3005	1/1	0.94	0.29	48,48,48,48	0
55	MG	CA	1607	1/1	0.94	0.13	70,70,70,70	0
55	MG	CA	1641	1/1	0.94	0.15	64,64,64,64	0
55	MG	DA	3385	1/1	0.94	0.17	86,86,86,86	0
55	MG	BA	3423	1/1	0.94	0.38	90,90,90,90	0
55	MG	DA	3152	1/1	0.94	0.29	63,63,63,63	0
55	MG	BA	3073	1/1	0.94	0.29	65,65,65,65	0
55	MG	CA	1617	1/1	0.94	0.37	83,83,83,83	0
55	MG	CA	1741	1/1	0.94	0.21	85,85,85,85	0
55	MG	CA	1795	1/1	0.94	0.41	73,73,73,73	0
55	MG	CA	1602	1/1	0.94	0.35	64,64,64,64	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	CA	1724	1/1	0.94	0.18	87,87,87,87	0
55	MG	BA	3560	1/1	0.94	0.38	69,69,69,69	0
55	MG	DA	3145	1/1	0.94	0.29	54,54,54,54	0
55	MG	DA	3155	1/1	0.94	0.14	90,90,90,90	0
55	MG	BA	3148	1/1	0.94	0.13	56,56,56,56	0
55	MG	D5	101	1/1	0.95	0.27	58,58,58,58	0
55	MG	BA	3043	1/1	0.95	0.39	78,78,78,78	0
55	MG	DA	3001	1/1	0.95	0.30	46,46,46,46	0
55	MG	BA	3158	1/1	0.95	0.40	66,66,66,66	0
55	MG	DA	3116	1/1	0.95	0.35	61,61,61,61	0
55	MG	BA	3170	1/1	0.95	0.31	54,54,54,54	0
55	MG	DA	3137	1/1	0.95	0.23	53,53,53,53	0
55	MG	BA	3156	1/1	0.95	0.35	61,61,61,61	0
55	MG	BA	3087	1/1	0.95	0.35	38,38,38,38	0
55	MG	AA	1602	1/1	0.95	0.28	71,71,71,71	0
55	MG	BA	3055	1/1	0.95	0.34	78,78,78,78	0
55	MG	BA	3384	1/1	0.95	0.66	85,85,85,85	0
55	MG	DA	3105	1/1	0.95	0.34	37,37,37,37	0
55	MG	DA	3237	1/1	0.95	0.27	79,79,79,79	0
55	MG	BA	3077	1/1	0.95	0.27	83,83,83,83	0
55	MG	BF	301	1/1	0.95	0.14	79,79,79,79	0
55	MG	BA	3002	1/1	0.95	0.38	40,40,40,40	0
55	MG	AA	1610	1/1	0.95	0.34	58,58,58,58	0
55	MG	BA	3167	1/1	0.95	0.39	45,45,45,45	0
55	MG	AA	1670	1/1	0.95	0.38	75,75,75,75	0
55	MG	CA	1679	1/1	0.95	0.23	80,80,80,80	0
55	MG	DA	3049	1/1	0.95	0.41	55,55,55,55	0
55	MG	DA	3046	1/1	0.95	0.11	100,100,100,100	0
55	MG	DA	3428	1/1	0.95	0.34	59,59,59,59	0
55	MG	AA	1652	1/1	0.95	0.43	72,72,72,72	0
55	MG	DA	3107	1/1	0.95	0.38	55,55,55,55	0
55	MG	DA	3196	1/1	0.95	0.22	45,45,45,45	0
55	MG	BA	3521	1/1	0.95	0.24	45,45,45,45	0
55	MG	BA	3146	1/1	0.95	0.36	62,62,62,62	0
55	MG	BA	3494	1/1	0.95	0.36	76,76,76,76	0
55	MG	DA	3200	1/1	0.95	0.37	55,55,55,55	0
55	MG	CA	1772	1/1	0.95	0.17	107,107,107,107	0
55	MG	BA	3019	1/1	0.95	0.31	45,45,45,45	0
55	MG	BA	3241	1/1	0.95	0.32	62,62,62,62	0
55	MG	DA	3253	1/1	0.95	0.28	77,77,77,77	0
55	MG	BA	3292	1/1	0.95	0.27	63,63,63,63	0
55	MG	DA	3113	1/1	0.95	0.23	80,80,80,80	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3136	1/1	0.95	0.15	53,53,53,53	0
55	MG	BA	3124	1/1	0.95	0.34	66,66,66,66	0
55	MG	DA	3080	1/1	0.95	0.27	73,73,73,73	0
55	MG	DA	3007	1/1	0.95	0.24	55,55,55,55	0
55	MG	DA	3027	1/1	0.95	0.13	47,47,47,47	0
55	MG	BA	3361	1/1	0.95	0.17	70,70,70,70	0
55	MG	BA	3117	1/1	0.95	0.41	52,52,52,52	0
55	MG	DA	3347	1/1	0.95	0.12	91,91,91,91	0
55	MG	DA	3053	1/1	0.95	0.28	72,72,72,72	0
55	MG	BA	3244	1/1	0.95	0.16	34,34,34,34	0
55	MG	BA	3103	1/1	0.95	0.49	76,76,76,76	0
55	MG	BA	3044	1/1	0.95	0.26	68,68,68,68	0
55	MG	BA	3497	1/1	0.95	0.28	30,30,30,30	0
55	MG	AA	1607	1/1	0.95	0.20	86,86,86,86	0
55	MG	DA	3047	1/1	0.95	0.34	67,67,67,67	0
55	MG	BA	3465	1/1	0.95	0.52	61,61,61,61	0
55	MG	CA	1769	1/1	0.95	0.30	67,67,67,67	0
55	MG	DB	202	1/1	0.95	0.14	91,91,91,91	0
55	MG	AA	1601	1/1	0.95	0.30	60,60,60,60	0
55	MG	DA	3111	1/1	0.95	0.23	45,45,45,45	0
55	MG	BA	3197	1/1	0.95	0.40	57,57,57,57	0
55	MG	AA	1662	1/1	0.95	0.23	41,41,41,41	0
55	MG	BA	3248	1/1	0.95	0.21	34,34,34,34	0
55	MG	BA	3520	1/1	0.96	0.38	40,40,40,40	0
55	MG	BA	3042	1/1	0.96	0.38	75,75,75,75	0
55	MG	BA	3164	1/1	0.96	0.40	47,47,47,47	0
55	MG	AA	1672	1/1	0.96	0.52	67,67,67,67	0
55	MG	BA	3182	1/1	0.96	0.50	45,45,45,45	0
55	MG	BA	3022	1/1	0.96	0.31	46,46,46,46	0
55	MG	BA	3208	1/1	0.96	0.55	55,55,55,55	0
55	MG	DA	3002	1/1	0.96	0.36	48,48,48,48	0
55	MG	BA	3072	1/1	0.96	0.35	67,67,67,67	0
55	MG	DA	3154	1/1	0.96	0.22	77,77,77,77	0
55	MG	BA	3499	1/1	0.96	0.48	38,38,38,38	0
55	MG	CA	1637	1/1	0.96	0.10	70,70,70,70	0
55	MG	DA	3341	1/1	0.96	0.33	56,56,56,56	0
55	MG	DA	3098	1/1	0.96	0.32	48,48,48,48	0
55	MG	DA	3112	1/1	0.96	0.28	63,63,63,63	0
55	MG	AA	1719	1/1	0.96	0.23	80,80,80,80	0
55	MG	DA	3015	1/1	0.96	0.33	64,64,64,64	0
55	MG	CA	1698	1/1	0.96	0.23	79,79,79,79	0
55	MG	BA	3354	1/1	0.96	0.44	73,73,73,73	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	1665	1/1	0.96	0.17	52,52,52,52	0
55	MG	DA	3162	1/1	0.96	0.34	58,58,58,58	0
55	MG	BA	3311	1/1	0.96	0.38	68,68,68,68	0
55	MG	BA	3011	1/1	0.96	0.41	40,40,40,40	0
55	MG	BA	3159	1/1	0.96	0.37	57,57,57,57	0
55	MG	BA	3527	1/1	0.96	0.12	40,40,40,40	0
55	MG	DA	3109	1/1	0.96	0.36	55,55,55,55	0
55	MG	BA	3021	1/1	0.96	0.28	42,42,42,42	0
55	MG	DA	3204	1/1	0.96	0.13	48,48,48,48	0
55	MG	AA	1776	1/1	0.96	0.31	67,67,67,67	0
55	MG	AA	1674	1/1	0.96	0.32	56,56,56,56	0
55	MG	DA	3065	1/1	0.96	0.38	75,75,75,75	0
55	MG	DA	3191	1/1	0.96	0.46	55,55,55,55	0
55	MG	BA	3223	1/1	0.96	0.48	56,56,56,56	0
55	MG	BA	3050	1/1	0.96	0.31	65,65,65,65	0
55	MG	AA	1627	1/1	0.96	0.34	62,62,62,62	0
55	MG	BA	3119	1/1	0.96	0.39	61,61,61,61	0
55	MG	DA	3450	1/1	0.96	0.33	54,54,54,54	0
55	MG	DA	3433	1/1	0.96	0.37	50,50,50,50	0
55	MG	CA	1731	1/1	0.96	0.36	97,97,97,97	0
55	MG	BA	3039	1/1	0.96	0.28	55,55,55,55	0
55	MG	DA	3078	1/1	0.96	0.35	76,76,76,76	0
55	MG	BA	3327	1/1	0.96	0.30	69,69,69,69	0
55	MG	AA	1656	1/1	0.96	0.41	87,87,87,87	0
55	MG	CA	1633	1/1	0.96	0.37	61,61,61,61	0
55	MG	BA	3389	1/1	0.96	0.31	56,56,56,56	0
55	MG	CA	1608	1/1	0.96	0.23	74,74,74,74	0
55	MG	AA	1641	1/1	0.96	0.31	56,56,56,56	0
55	MG	DA	3180	1/1	0.96	0.25	48,48,48,48	0
55	MG	BA	3036	1/1	0.96	0.36	58,58,58,58	0
55	MG	BA	3363	1/1	0.96	0.37	57,57,57,57	0
55	MG	BA	3213	1/1	0.96	0.41	41,41,41,41	0
55	MG	AN	201	1/1	0.96	0.07	67,67,67,67	0
55	MG	BA	3387	1/1	0.96	0.10	88,88,88,88	0
55	MG	DA	3003	1/1	0.96	0.24	58,58,58,58	0
55	MG	DA	3247	1/1	0.96	0.34	58,58,58,58	0
55	MG	BA	3165	1/1	0.96	0.32	60,60,60,60	0
55	MG	BA	3060	1/1	0.96	0.22	51,51,51,51	0
55	MG	DA	3131	1/1	0.96	0.34	48,48,48,48	0
55	MG	AA	1606	1/1	0.96	0.07	77,77,77,77	0
55	MG	DA	3430	1/1	0.96	0.42	52,52,52,52	0
55	MG	AA	1604	1/1	0.97	0.35	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	3063	1/1	0.97	0.25	45,45,45,45	0
55	MG	CA	1752	1/1	0.97	0.44	80,80,80,80	0
55	MG	DA	3144	1/1	0.97	0.47	66,66,66,66	0
55	MG	DA	3183	1/1	0.97	0.29	75,75,75,75	0
55	MG	DA	3006	1/1	0.97	0.29	50,50,50,50	0
55	MG	BA	3286	1/1	0.97	0.51	46,46,46,46	0
55	MG	AA	1710	1/1	0.97	0.22	56,56,56,56	0
55	MG	DA	3011	1/1	0.97	0.34	50,50,50,50	0
55	MG	AA	1698	1/1	0.97	0.48	76,76,76,76	0
55	MG	BA	3034	1/1	0.97	0.29	40,40,40,40	0
55	MG	BW	101	1/1	0.97	0.21	64,64,64,64	0
55	MG	BA	3526	1/1	0.97	0.39	41,41,41,41	0
55	MG	BA	3012	1/1	0.97	0.39	45,45,45,45	0
55	MG	DA	3293	1/1	0.97	0.48	89,89,89,89	0
55	MG	DA	3009	1/1	0.97	0.34	53,53,53,53	0
55	MG	BA	3008	1/1	0.97	0.38	44,44,44,44	0
55	MG	AA	1812	1/1	0.97	0.46	69,69,69,69	0
55	MG	BA	3084	1/1	0.97	0.37	37,37,37,37	0
55	MG	AA	1628	1/1	0.97	0.46	77,77,77,77	0
55	MG	BA	3003	1/1	0.97	0.34	50,50,50,50	0
55	MG	BA	3109	1/1	0.97	0.36	81,81,81,81	0
55	MG	DA	3041	1/1	0.97	0.41	47,47,47,47	0
55	MG	DA	3456	1/1	0.97	0.29	57,57,57,57	0
55	MG	BA	3027	1/1	0.97	0.24	41,41,41,41	0
55	MG	BA	3149	1/1	0.97	0.36	41,41,41,41	0
55	MG	DA	3193	1/1	0.97	0.50	48,48,48,48	0
55	MG	DA	3457	1/1	0.97	0.28	48,48,48,48	0
55	MG	BA	3017	1/1	0.97	0.41	58,58,58,58	0
55	MG	DA	3044	1/1	0.97	0.34	66,66,66,66	0
55	MG	DA	3043	1/1	0.97	0.28	69,69,69,69	0
55	MG	CA	1664	1/1	0.97	0.30	64,64,64,64	0
55	MG	BA	3518	1/1	0.97	0.49	36,36,36,36	0
55	MG	BA	3186	1/1	0.97	0.29	45,45,45,45	0
55	MG	BA	3144	1/1	0.97	0.42	39,39,39,39	0
55	MG	BA	3114	1/1	0.97	0.23	37,37,37,37	0
55	MG	CA	1728	1/1	0.97	0.45	58,58,58,58	0
55	MG	DA	3061	1/1	0.97	0.35	53,53,53,53	0
55	MG	BA	3015	1/1	0.97	0.39	35,35,35,35	0
55	MG	DA	3455	1/1	0.97	0.14	44,44,44,44	0
55	MG	BA	3038	1/1	0.97	0.23	33,33,33,33	0
55	MG	BA	3523	1/1	0.97	0.41	36,36,36,36	0
55	MG	BA	3115	1/1	0.97	0.44	41,41,41,41	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3143	1/1	0.97	0.19	43,43,43,43	0
55	MG	DA	3474	1/1	0.97	0.28	60,60,60,60	0
55	MG	DA	3042	1/1	0.97	0.38	51,51,51,51	0
55	MG	DA	3471	1/1	0.97	0.22	60,60,60,60	0
55	MG	BA	3377	1/1	0.97	0.41	64,64,64,64	0
56	ZN	AG	303	1/1	0.97	0.35	100,100,100,100	0
55	MG	DA	3472	1/1	0.97	0.24	53,53,53,53	0
55	MG	BA	3120	1/1	0.97	0.37	42,42,42,42	0
55	MG	BA	3006	1/1	0.97	0.44	58,58,58,58	0
56	ZN	CQ	101	1/1	0.97	0.17	118,118,118,118	0
55	MG	BA	3089	1/1	0.97	0.35	61,61,61,61	0
55	MG	DD	301	1/1	0.97	0.38	51,51,51,51	0
55	MG	BA	3088	1/1	0.97	0.43	57,57,57,57	0
55	MG	BA	3260	1/1	0.97	0.43	65,65,65,65	0
55	MG	BA	3492	1/1	0.97	0.39	54,54,54,54	0
55	MG	BA	3188	1/1	0.97	0.35	64,64,64,64	0
55	MG	AA	1659	1/1	0.97	0.40	46,46,46,46	0
55	MG	CA	1807	1/1	0.97	0.34	95,95,95,95	0
55	MG	BA	3273	1/1	0.97	0.34	73,73,73,73	0
55	MG	BA	3211	1/1	0.97	0.37	55,55,55,55	0
55	MG	DA	3470	1/1	0.98	0.33	54,54,54,54	0
55	MG	BA	3264	1/1	0.98	0.41	61,61,61,61	0
55	MG	DA	3118	1/1	0.98	0.36	55,55,55,55	0
55	MG	DA	3101	1/1	0.98	0.33	76,76,76,76	0
55	MG	BA	3490	1/1	0.98	0.37	36,36,36,36	0
55	MG	CA	1703	1/1	0.98	0.43	72,72,72,72	0
55	MG	BA	3221	1/1	0.98	0.39	59,59,59,59	0
55	MG	DA	3136	1/1	0.98	0.40	73,73,73,73	0
55	MG	B0	201	1/1	0.98	0.32	46,46,46,46	0
55	MG	BA	3519	1/1	0.98	0.38	24,24,24,24	0
55	MG	AA	1646	1/1	0.98	0.42	60,60,60,60	0
55	MG	BA	3551	1/1	0.98	0.30	64,64,64,64	0
55	MG	DA	3004	1/1	0.98	0.23	39,39,39,39	0
55	MG	BA	3001	1/1	0.98	0.50	55,55,55,55	0
55	MG	BA	3552	1/1	0.98	0.39	45,45,45,45	0
55	MG	BA	3085	1/1	0.98	0.42	38,38,38,38	0
56	ZN	CG	303	1/1	0.98	0.30	109,109,109,109	0
55	MG	DA	3045	1/1	0.98	0.43	71,71,71,71	0
55	MG	BA	3004	1/1	0.98	0.37	36,36,36,36	0
55	MG	BA	3152	1/1	0.98	0.42	58,58,58,58	0
55	MG	DA	3059	1/1	0.98	0.31	61,61,61,61	0
55	MG	DA	3055	1/1	0.98	0.41	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3261	1/1	0.98	0.47	57,57,57,57	0
55	MG	BA	3367	1/1	0.98	0.54	72,72,72,72	0
55	MG	DA	3408	1/1	0.98	0.23	66,66,66,66	0
55	MG	BA	3496	1/1	0.98	0.28	45,45,45,45	0
55	MG	BA	3142	1/1	0.98	0.13	49,49,49,49	0
55	MG	BA	3139	1/1	0.98	0.47	43,43,43,43	0
55	MG	BA	3130	1/1	0.98	0.43	50,50,50,50	0
55	MG	DA	3130	1/1	0.98	0.24	49,49,49,49	0
55	MG	BA	3024	1/1	0.98	0.39	44,44,44,44	0
55	MG	BA	3014	1/1	0.98	0.41	43,43,43,43	0
55	MG	DA	3067	1/1	0.98	0.17	50,50,50,50	0
55	MG	DA	3170	1/1	0.98	0.39	59,59,59,59	0
55	MG	BA	3032	1/1	0.98	0.31	41,41,41,41	0
55	MG	DA	3454	1/1	0.99	0.35	52,52,52,52	0
55	MG	DA	3097	1/1	0.99	0.33	53,53,53,53	0
55	MG	BE	302	1/1	0.99	0.43	40,40,40,40	0
55	MG	DA	3427	1/1	0.99	0.29	56,56,56,56	0
55	MG	BA	3529	1/1	0.99	0.49	42,42,42,42	0
55	MG	BA	3005	1/1	0.99	0.40	40,40,40,40	0
55	MG	BA	3491	1/1	0.99	0.35	41,41,41,41	0
55	MG	BA	3161	1/1	0.99	0.44	45,45,45,45	0
55	MG	BA	3173	1/1	0.99	0.40	58,58,58,58	0
55	MG	AA	1722	1/1	-	-	62,62,62,62	1
55	MG	BA	3391	1/1	0.13	0.52	112,112,112,112	0
55	MG	DA	3388	1/1	0.27	0.21	138,138,138,138	0
55	MG	AA	1748	1/1	0.37	0.29	116,116,116,116	0
55	MG	DA	3411	1/1	0.41	0.38	144,144,144,144	0
55	MG	AA	1621	1/1	0.41	0.28	102,102,102,102	0
55	MG	BA	3171	1/1	0.47	0.46	96,96,96,96	0
55	MG	CB	103	1/1	0.48	1.49	147,147,147,147	0
55	MG	DA	3395	1/1	0.48	0.29	87,87,87,87	0
55	MG	DA	3365	1/1	0.51	0.48	112,112,112,112	0
55	MG	DA	3082	1/1	0.51	0.21	91,91,91,91	0
55	MG	DA	3405	1/1	0.52	0.29	135,135,135,135	0
55	MG	BA	3100	1/1	0.53	0.41	93,93,93,93	0
55	MG	CA	1647	1/1	0.53	0.40	96,96,96,96	0
55	MG	D7	101	1/1	0.55	0.34	86,86,86,86	0
55	MG	AA	1780	1/1	0.56	0.24	103,103,103,103	0
55	MG	AA	1805	1/1	0.56	0.73	152,152,152,152	0
55	MG	DA	3360	1/1	0.58	0.15	97,97,97,97	0
55	MG	DA	3242	1/1	0.58	0.11	81,81,81,81	0
55	MG	BA	3234	1/1	0.60	0.26	107,107,107,107	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3416	1/1	0.60	0.30	98,98,98,98	0
55	MG	BA	3237	1/1	0.61	0.37	102,102,102,102	0
55	MG	AA	1767	1/1	0.63	0.22	116,116,116,116	0
55	MG	BA	3471	1/1	0.64	0.38	126,126,126,126	0
55	MG	AA	1795	1/1	0.64	0.37	113,113,113,113	0
55	MG	BA	3369	1/1	0.65	0.20	92,92,92,92	0
55	MG	AA	1617	1/1	0.68	0.35	76,76,76,76	0
55	MG	DA	3255	1/1	0.69	0.15	82,82,82,82	0
55	MG	CA	1791	1/1	0.71	0.20	80,80,80,80	0
55	MG	DA	3467	1/1	0.72	0.13	103,103,103,103	0
55	MG	DA	3210	1/1	0.74	0.38	77,77,77,77	0
55	MG	DA	3420	1/1	0.75	0.14	108,108,108,108	0
55	MG	BA	3504	1/1	0.75	0.51	88,88,88,88	0
55	MG	BA	3480	1/1	0.76	0.34	76,76,76,76	0
55	MG	BA	3250	1/1	0.77	0.23	90,90,90,90	0
55	MG	DA	3256	1/1	0.77	0.20	91,91,91,91	0
55	MG	CA	1638	1/1	0.78	0.33	68,68,68,68	0
55	MG	BA	3374	1/1	0.79	0.26	93,93,93,93	0
55	MG	DA	3066	1/1	0.79	0.30	76,76,76,76	0
55	MG	AA	1718	1/1	0.79	0.18	82,82,82,82	0
55	MG	DA	3207	1/1	0.80	0.44	83,83,83,83	0
55	MG	BA	3145	1/1	0.81	0.27	54,54,54,54	0
55	MG	DA	3306	1/1	0.81	0.34	96,96,96,96	0
55	MG	DA	3205	1/1	0.82	0.27	110,110,110,110	0
55	MG	DA	3051	1/1	0.83	0.13	87,87,87,87	0
55	MG	BA	3514	1/1	0.83	0.36	113,113,113,113	0
55	MG	BA	3200	1/1	0.84	0.24	81,81,81,81	0
55	MG	AA	1692	1/1	0.84	0.25	73,73,73,73	0
55	MG	CA	1779	1/1	0.84	0.27	109,109,109,109	0
55	MG	CA	1612	1/1	0.84	0.27	75,75,75,75	0
55	MG	DA	3362	1/1	0.85	0.31	150,150,150,150	0
55	MG	CD	101	1/1	0.85	0.13	145,145,145,145	0
55	MG	BA	3341	1/1	0.86	0.42	89,89,89,89	0
55	MG	BA	3460	1/1	0.86	0.36	97,97,97,97	0
55	MG	AA	1717	1/1	0.86	0.42	73,73,73,73	0
55	MG	DA	3031	1/1	0.87	0.17	70,70,70,70	0
55	MG	BA	3110	1/1	0.87	0.30	69,69,69,69	0
55	MG	DA	3285	1/1	0.88	0.37	79,79,79,79	0
55	MG	DA	3335	1/1	0.89	0.11	80,80,80,80	0
55	MG	DB	207	1/1	0.89	0.33	69,69,69,69	0
55	MG	DA	3102	1/1	0.90	0.35	72,72,72,72	0
55	MG	BA	3371	1/1	0.91	0.20	83,83,83,83	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3095	1/1	0.91	0.26	79,79,79,79	0
55	MG	DA	3090	1/1	0.91	0.27	71,71,71,71	0
55	MG	CA	1725	1/1	0.91	0.35	86,86,86,86	0
55	MG	BA	3061	1/1	0.91	0.33	73,73,73,73	0
55	MG	BB	213	1/1	0.92	0.24	101,101,101,101	0
55	MG	DA	3288	1/1	0.92	0.09	101,101,101,101	0
55	MG	DA	3169	1/1	0.92	0.26	92,92,92,92	0
55	MG	CA	1758	1/1	0.93	0.24	107,107,107,107	0
55	MG	BA	3056	1/1	0.93	0.31	57,57,57,57	0
55	MG	AA	1716	1/1	0.93	0.25	82,82,82,82	0
55	MG	DA	3096	1/1	0.93	0.44	47,47,47,47	0
55	MG	AA	1642	1/1	0.93	0.38	70,70,70,70	0
55	MG	BA	3150	1/1	0.93	0.49	49,49,49,49	0
55	MG	AA	1712	1/1	0.94	0.17	73,73,73,73	0
55	MG	BA	3054	1/1	0.94	0.30	52,52,52,52	0
55	MG	BA	3495	1/1	0.94	0.39	75,75,75,75	0
55	MG	BA	3018	1/1	0.94	0.41	44,44,44,44	0
55	MG	BA	3470	1/1	0.94	0.48	83,83,83,83	0
55	MG	DA	3056	1/1	0.95	0.44	52,52,52,52	0
55	MG	BA	3215	1/1	0.95	0.24	44,44,44,44	0
55	MG	DA	3129	1/1	0.96	0.38	65,65,65,65	0
55	MG	BA	3157	1/1	0.96	0.50	50,50,50,50	0
55	MG	CA	1616	1/1	0.96	0.23	87,87,87,87	0
55	MG	CA	1601	1/1	0.96	0.26	67,67,67,67	0
55	MG	DA	3108	1/1	0.96	0.41	54,54,54,54	0
55	MG	BA	3531	1/1	0.97	0.20	31,31,31,31	0
55	MG	DA	3070	1/1	0.97	0.33	49,49,49,49	0
55	MG	DA	3012	1/1	0.97	0.34	50,50,50,50	0
55	MG	DA	3010	1/1	0.97	0.31	53,53,53,53	0
55	MG	CA	1718	1/1	0.98	0.13	64,64,64,64	0
55	MG	CA	1634	1/1	0.98	0.45	58,58,58,58	0
55	MG	BA	3435	1/1	0.99	0.46	49,49,49,49	0
55	MG	BA	3312	1/1	-	-	62,62,62,62	1
55	MG	DA	3274	1/1	0.50	0.26	85,85,85,85	0
55	MG	BA	3410	1/1	0.79	0.23	84,84,84,84	0
55	MG	BA	3366	1/1	0.91	0.21	91,91,91,91	0
56	ZN	AQ	101	1/1	0.98	0.14	142,142,142,142	0

6.5 Other polymers [i](#)

There are no such residues in this entry.