



# wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 14, 2023 – 04:50 AM EDT

PDB ID : 4V9A  
Title : Crystal Structure of the 70S ribosome with tetracycline.  
Authors : Jenner, L.; Yusupov, M.; Yusupova, G.  
Deposited on : 2012-07-18  
Resolution : 3.30 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](mailto:validation@mail.wwpdb.org)

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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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 : 2.35.1  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.35.1

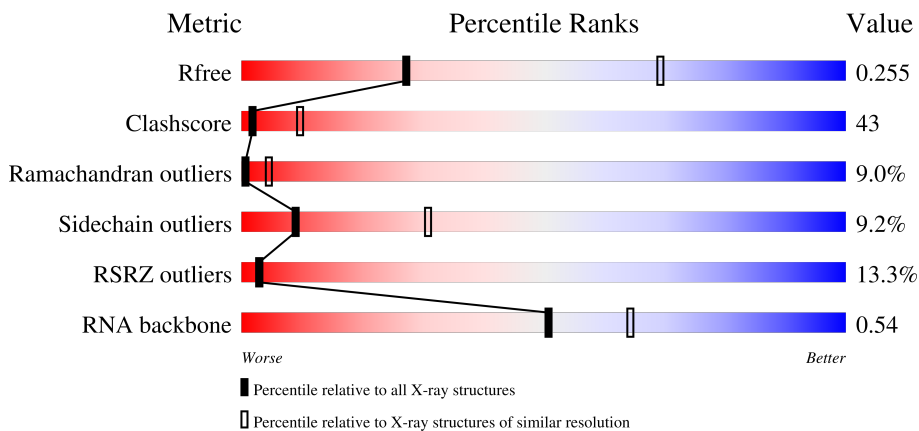
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.30 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	1149 (3.34-3.26)
Clashscore	141614	1205 (3.34-3.26)
Ramachandran outliers	138981	1183 (3.34-3.26)
Sidechain outliers	138945	1182 (3.34-3.26)
RSRZ outliers	127900	1115 (3.34-3.26)
RNA backbone	3102	1117 (3.70-2.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	 25% 58% 17%
1	CA	1506	 25% 59% 16%
2	AE	256	 23% 22% 56% 14% 7%
2	CE	256	 38% 20% 54% 18% 7%

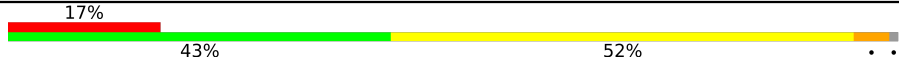
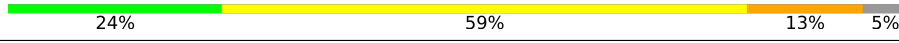
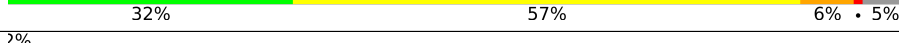
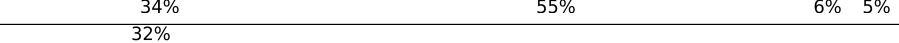
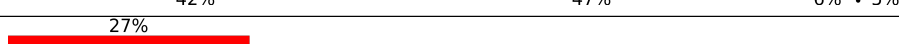
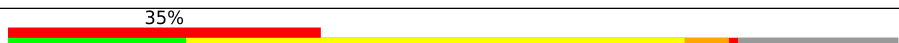
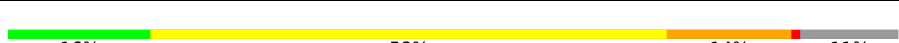
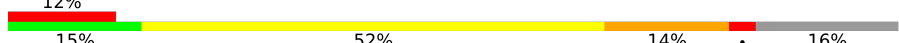
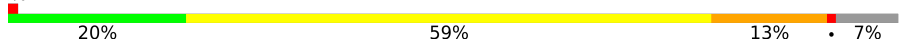
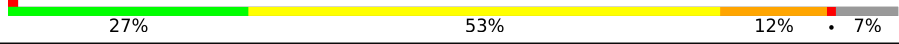
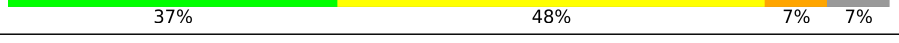
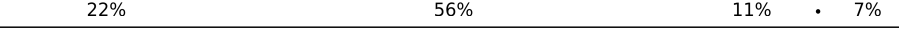
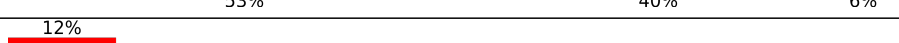

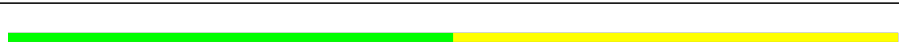
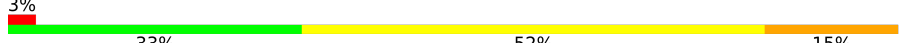

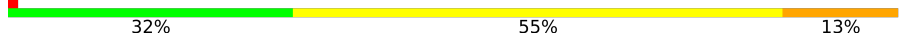
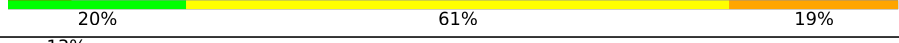

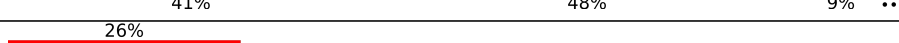
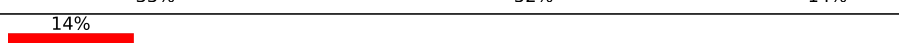



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Mol	Chain	Length	Quality of chain
3	AF	239	
3	CF	239	
4	AG	208	
4	CG	208	
5	AH	162	
5	CH	162	
6	AI	101	
6	CI	101	
7	AJ	156	
7	CJ	156	
8	AK	138	
8	CK	138	
9	AL	128	
9	CL	128	
10	AM	105	
10	CM	105	
11	AN	129	
11	CN	129	
12	AO	128	
12	CO	128	
13	AP	126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

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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	AC	77	
22	CC	77	
23	A1	4	
23	C1	4	
24	BA	2912	
24	DA	2912	
25	BB	122	
25	DB	122	
26	BD	276	
26	DD	276	
27	BE	206	
27	DE	206	

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Mol	Chain	Length	Quality of chain
28	BF	210	
28	DF	210	
29	BG	182	
29	DG	182	
30	BH	180	
30	DH	180	
31	BK	148	
31	DK	148	
32	BM	140	
32	DM	140	
33	BN	122	
33	DN	122	
34	BO	150	
34	DO	150	
35	BP	141	
35	DP	141	
36	B0	118	
36	D0	118	
37	BQ	112	
37	DQ	112	
38	BR	146	
38	DR	146	
39	B1	118	
39	D1	118	
40	B2	101	

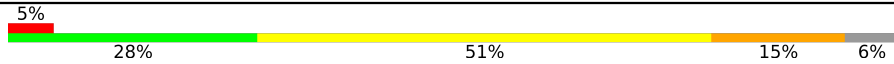
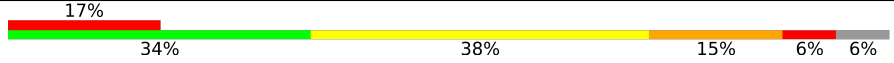
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Mol	Chain	Length	Quality of chain
40	D2	101	
41	BS	113	
41	DS	113	
42	BT	96	
42	DT	96	
43	BU	110	
43	DU	110	
44	BV	206	
44	DV	206	
45	B3	85	
45	D3	85	
46	BZ	98	
46	DZ	98	
47	BW	72	
47	DW	72	
48	BX	60	
48	DX	60	
49	B4	71	
49	D4	71	
50	B5	60	
50	D5	60	
51	B6	54	
51	D6	54	
52	B7	49	
52	D7	49	

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Mol	Chain	Length	Quality of chain
53	B8	65	
53	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
54	MG	AA	1662	-	-	-	X
54	MG	AA	1674	-	-	-	X
54	MG	AA	1676	-	-	-	X
54	MG	AA	1683	-	-	-	X
54	MG	AA	1694	-	-	-	X
54	MG	AA	1724	-	-	-	X
54	MG	AA	1730	-	-	-	X
54	MG	AA	1748	-	-	-	X
54	MG	AA	1750	-	-	-	X
54	MG	AA	1751	-	-	-	X
54	MG	AA	1752	-	-	-	X
54	MG	AA	1770	-	-	-	X
54	MG	AA	1773	-	-	-	X
54	MG	AA	1790	-	-	-	X
54	MG	AA	1805	-	-	-	X
54	MG	AA	1809	-	-	-	X
54	MG	AA	1810	-	-	-	X
54	MG	AA	1820	-	-	-	X
54	MG	AC	108	-	-	-	X
54	MG	B6	101	-	-	-	X
54	MG	BA	3056	-	-	-	X
54	MG	BA	3069	-	-	-	X
54	MG	BA	3075	-	-	-	X
54	MG	BA	3084	-	-	-	X
54	MG	BA	3095	-	-	-	X
54	MG	BA	3096	-	-	-	X
54	MG	BA	3119	-	-	-	X
54	MG	BA	3188	-	-	-	X
54	MG	BA	3191	-	-	-	X
54	MG	BA	3204	-	-	-	X
54	MG	BA	3212	-	-	-	X
54	MG	BA	3214	-	-	-	X
54	MG	BA	3228	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	MG	BA	3245	-	-	-	X
54	MG	BA	3251	-	-	-	X
54	MG	BA	3275	-	-	-	X
54	MG	BA	3285	-	-	-	X
54	MG	BA	3292	-	-	-	X
54	MG	BA	3296	-	-	-	X
54	MG	BA	3319	-	-	-	X
54	MG	BA	3329	-	-	-	X
54	MG	BA	3340	-	-	-	X
54	MG	BA	3357	-	-	-	X
54	MG	BA	3361	-	-	-	X
54	MG	BA	3365	-	-	-	X
54	MG	BA	3368	-	-	-	X
54	MG	BA	3369	-	-	-	X
54	MG	BA	3370	-	-	-	X
54	MG	BA	3376	-	-	-	X
54	MG	BA	3395	-	-	-	X
54	MG	BA	3396	-	-	-	X
54	MG	BA	3398	-	-	-	X
54	MG	BA	3406	-	-	-	X
54	MG	BA	3407	-	-	-	X
54	MG	BA	3411	-	-	-	X
54	MG	BA	3421	-	-	-	X
54	MG	BA	3424	-	-	-	X
54	MG	BA	3429	-	-	-	X
54	MG	BA	3431	-	-	-	X
54	MG	BA	3442	-	-	-	X
54	MG	BA	3443	-	-	-	X
54	MG	BA	3446	-	-	-	X
54	MG	BA	3449	-	-	-	X
54	MG	BA	3455	-	-	-	X
54	MG	BA	3458	-	-	-	X
54	MG	BA	3465	-	-	-	X
54	MG	BA	3493	-	-	-	X
54	MG	BA	3496	-	-	-	X
54	MG	BA	3505	-	-	-	X
54	MG	BA	3509	-	-	-	X
54	MG	BA	3526	-	-	-	X
54	MG	BA	3527	-	-	-	X
54	MG	BA	3534	-	-	-	X
54	MG	BA	3535	-	-	-	X
54	MG	BA	3539	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	MG	BA	3540	-	-	-	X
54	MG	BA	3541	-	-	-	X
54	MG	BA	3564	-	-	-	X
54	MG	BA	3576	-	-	-	X
54	MG	BA	3612	-	-	-	X
54	MG	BA	3618	-	-	-	X
54	MG	BA	3626	-	-	-	X
54	MG	BB	211	-	-	-	X
54	MG	BB	214	-	-	-	X
54	MG	BE	304	-	-	-	X
54	MG	CA	1602	-	-	-	X
54	MG	CA	1604	-	-	-	X
54	MG	CA	1622	-	-	-	X
54	MG	CA	1630	-	-	-	X
54	MG	CA	1644	-	-	-	X
54	MG	CA	1650	-	-	-	X
54	MG	CA	1695	-	-	-	X
54	MG	CA	1705	-	-	-	X
54	MG	CA	1707	-	-	-	X
54	MG	CA	1716	-	-	-	X
54	MG	CA	1723	-	-	-	X
54	MG	CA	1731	-	-	-	X
54	MG	CA	1747	-	-	-	X
54	MG	CA	1750	-	-	-	X
54	MG	CA	1751	-	-	-	X
54	MG	CA	1758	-	-	-	X
54	MG	CA	1778	-	-	-	X
54	MG	CA	1794	-	-	-	X
54	MG	DA	3002	-	-	-	X
54	MG	DA	3018	-	-	-	X
54	MG	DA	3037	-	-	-	X
54	MG	DA	3074	-	-	-	X
54	MG	DA	3104	-	-	-	X
54	MG	DA	3135	-	-	-	X
54	MG	DA	3158	-	-	-	X
54	MG	DA	3172	-	-	-	X
54	MG	DA	3239	-	-	-	X
54	MG	DA	3256	-	-	-	X
54	MG	DA	3291	-	-	-	X
54	MG	DA	3293	-	-	-	X
54	MG	DA	3295	-	-	-	X
54	MG	DA	3301	-	-	-	X

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<b>Mol</b>	<b>Type</b>	<b>Chain</b>	<b>Res</b>	<b>Chirality</b>	<b>Geometry</b>	<b>Clashes</b>	<b>Electron density</b>
54	MG	DA	3310	-	-	-	X
54	MG	DA	3318	-	-	-	X
54	MG	DA	3320	-	-	-	X
54	MG	DA	3333	-	-	-	X
54	MG	DA	3339	-	-	-	X
54	MG	DA	3354	-	-	-	X
54	MG	DA	3367	-	-	-	X
54	MG	DA	3410	-	-	-	X
54	MG	DA	3424	-	-	-	X
54	MG	DA	3478	-	-	-	X
54	MG	DA	3486	-	-	-	X
54	MG	DA	3523	-	-	-	X
56	ZN	CG	303	-	-	X	-

## 2 Entry composition [i](#)

There are 56 unique types of molecules in this entry. The entry contains 292440 atoms, of which 1 is hydrogen 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	1506	Total 32369	C 14408	N 5997	O 10459	P 1505	0	0	0
1	CA	1506	Total 32372	C 14408	N 5997	O 10461	P 1506	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			

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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	60	492	312	104	72	4	0	0	0
14	CQ	60	492	312	104	72	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
			Total	C	N	O	S			
16	AS	84	Total 705	C 446	N 140	O 118	S 1	0	0	0
16	CS	84	Total 705	C 446	N 140	O 118	S 1	0	0	0

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
19	AV	83	Total 665	C 424	N 124	O 115	S 2	0	0	0
19	CV	78	Total 624	C 398	N 115	O 109	S 2	0	0	0

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

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

- 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-FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AC	77	Total	C	N	O	P	0	0	0
			1640	732	298	534	76			
22	CC	77	Total	C	N	O	P	0	0	0
			1640	732	298	534	76			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AC	17A	C	U	conflict	GB AP008226.1
AC	50	U	C	conflict	GB AP008226.1
AC	51	C	G	conflict	GB AP008226.1
AC	63	G	C	conflict	GB AP008226.1
CC	17A	C	U	conflict	GB AP008226.1
CC	50	U	C	conflict	GB AP008226.1
CC	51	C	G	conflict	GB AP008226.1
CC	63	G	C	conflict	GB AP008226.1

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	A1	4	Total	C	N	O	P	0	0	0
			85	38	14	29	4			
23	C1	4	Total	C	N	O	P	0	0	0
			85	38	14	29	4			

- Molecule 24 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BA	2912	Total	C	N	O	P	0	0	0
			62707	27911	11722	20163	2911			
24	DA	2909	Total	C	N	O	P	0	0	0
			62647	27884	11716	20139	2908			

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	158	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 25 is a RNA chain called 5S RIBOSOMAL RNA.

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

- Molecule 26 is a protein called 50S ribosomal protein L2.

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

- Molecule 27 is a protein called 50S ribosomal protein L3.

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

- Molecule 28 is a protein called 50S ribosomal protein L4.



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

- Molecule 29 is a protein called 50S ribosomal protein L5.

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

- Molecule 30 is a protein called 50S ribosomal protein L6.

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

- Molecule 31 is a protein called 50S ribosomal protein L9.

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

- Molecule 32 is a protein called 50S ribosomal protein L13.

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

- Molecule 33 is a protein called 50S ribosomal protein L14.

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

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

- Molecule 34 is a protein called 50S ribosomal protein L15.

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

- Molecule 35 is a protein called 50S ribosomal protein L16.

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

- Molecule 36 is a protein called 50S ribosomal protein L17.

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

- Molecule 37 is a protein called 50S ribosomal protein L18.

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

- Molecule 38 is a protein called 50S ribosomal protein L19.

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

- Molecule 39 is a protein called 50S ribosomal protein L20.

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

- Molecule 40 is a protein called 50S ribosomal protein L21.

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

- Molecule 41 is a protein called 50S ribosomal protein L22.

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

- Molecule 42 is a protein called 50S ribosomal protein L23.

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

- Molecule 43 is a protein called 50S ribosomal protein L24.

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

- Molecule 44 is a protein called 50S ribosomal protein L25.

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

- Molecule 45 is a protein called 50S ribosomal protein L27.

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

- Molecule 46 is a protein called 50S ribosomal protein L28.

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

- Molecule 47 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	BW	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			
47	DW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			

- Molecule 48 is a protein called 50S ribosomal protein L30.

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

- Molecule 49 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B4	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	D4	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

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

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

- Molecule 51 is a protein called 50S ribosomal protein L33.

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

- Molecule 52 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			
52	D7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

- Molecule 53 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			
53	D8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			

- Molecule 54 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
54	AA	232	Total	Mg	0	0
			232	232		
54	AG	2	Total	Mg	0	0
			2	2		

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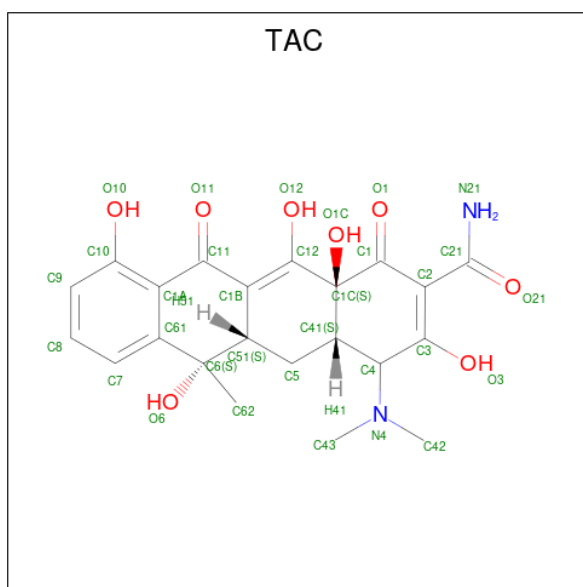
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	AH	2	Total Mg 2 2	0	0
54	AJ	1	Total Mg 1 1	0	0
54	AQ	2	Total Mg 2 2	0	0
54	AR	1	Total Mg 1 1	0	0
54	AS	1	Total Mg 1 1	0	0
54	AC	9	Total Mg 9 9	0	0
54	A1	1	Total Mg 1 1	0	0
54	BA	627	Total Mg 627 627	0	0
54	BB	17	Total Mg 17 17	0	0
54	BE	5	Total Mg 5 5	0	0
54	BF	2	Total Mg 2 2	0	0
54	BO	3	Total Mg 3 3	0	0
54	BP	1	Total Mg 1 1	0	0
54	B1	2	Total Mg 2 2	0	0
54	B2	1	Total Mg 1 1	0	0
54	BU	2	Total Mg 2 2	0	0
54	B3	2	Total Mg 2 2	0	0
54	BZ	1	Total Mg 1 1	0	0
54	B5	2	Total Mg 2 2	0	0
54	B6	1	Total Mg 1 1	0	0
54	B7	3	Total Mg 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	B8	1	Total Mg 1 1	0	0
54	CA	204	Total Mg 204 204	0	0
54	CG	2	Total Mg 2 2	0	0
54	CH	1	Total Mg 1 1	0	0
54	CS	1	Total Mg 1 1	0	0
54	CC	8	Total Mg 8 8	0	0
54	DA	525	Total Mg 525 525	0	0
54	DB	14	Total Mg 14 14	0	0
54	DD	1	Total Mg 1 1	0	0
54	DE	3	Total Mg 3 3	0	0
54	DP	1	Total Mg 1 1	0	0
54	DR	1	Total Mg 1 1	0	0
54	D1	1	Total Mg 1 1	0	0
54	DU	1	Total Mg 1 1	0	0
54	DZ	2	Total Mg 2 2	0	0
54	D5	1	Total Mg 1 1	0	0

- Molecule 55 is TETRACYCLINE (three-letter code: TAC) (formula:  $C_{22}H_{24}N_2O_8$ ).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	AA	1	Total C H N O 33 22 1 2 8	0	0
55	CA	1	Total C N O 32 22 2 8	0	0

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

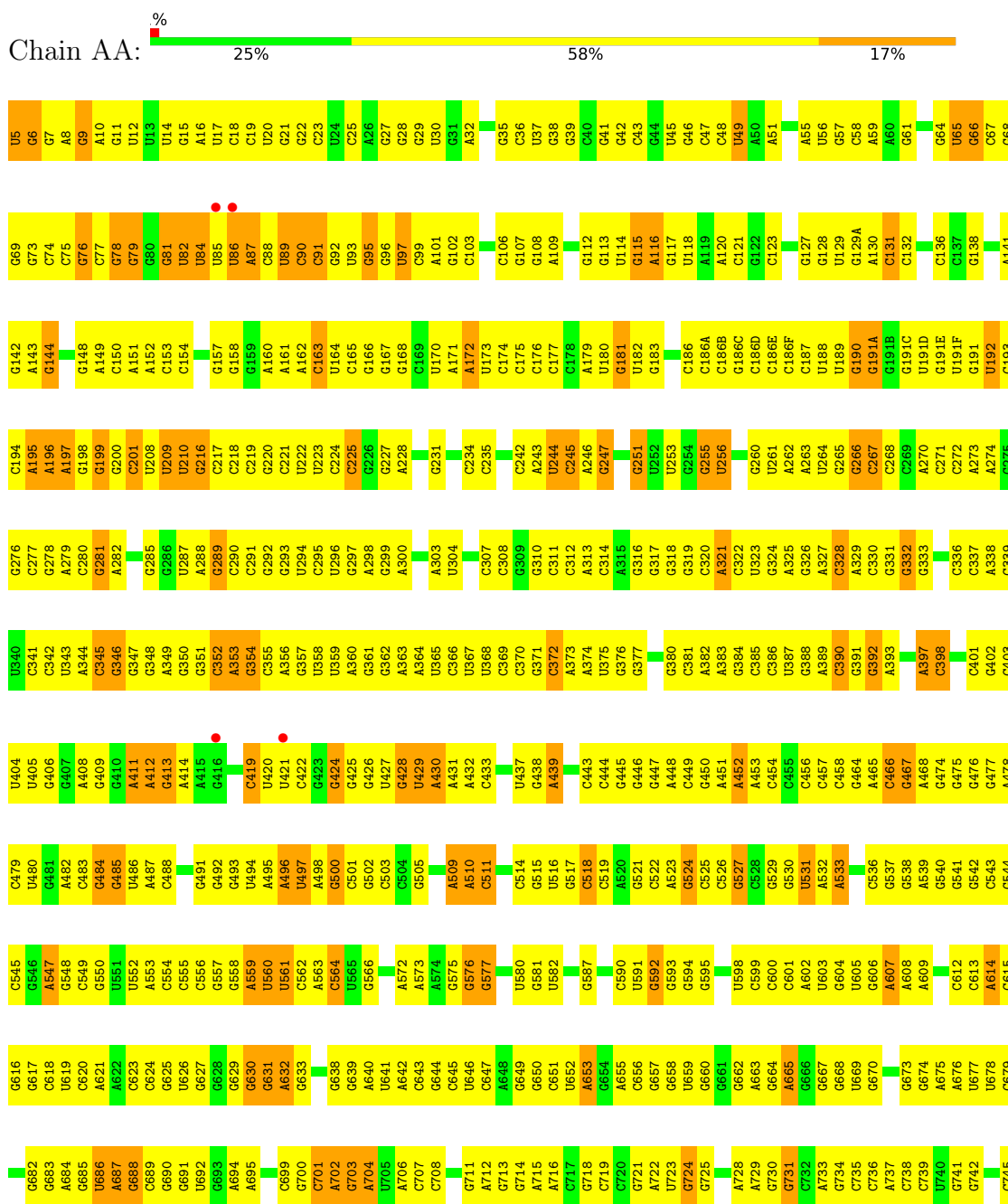
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AG	1	Total Zn 1 1	0	0
56	AQ	1	Total Zn 1 1	0	0
56	CG	1	Total Zn 1 1	0	0
56	CQ	1	Total Zn 1 1	0	0

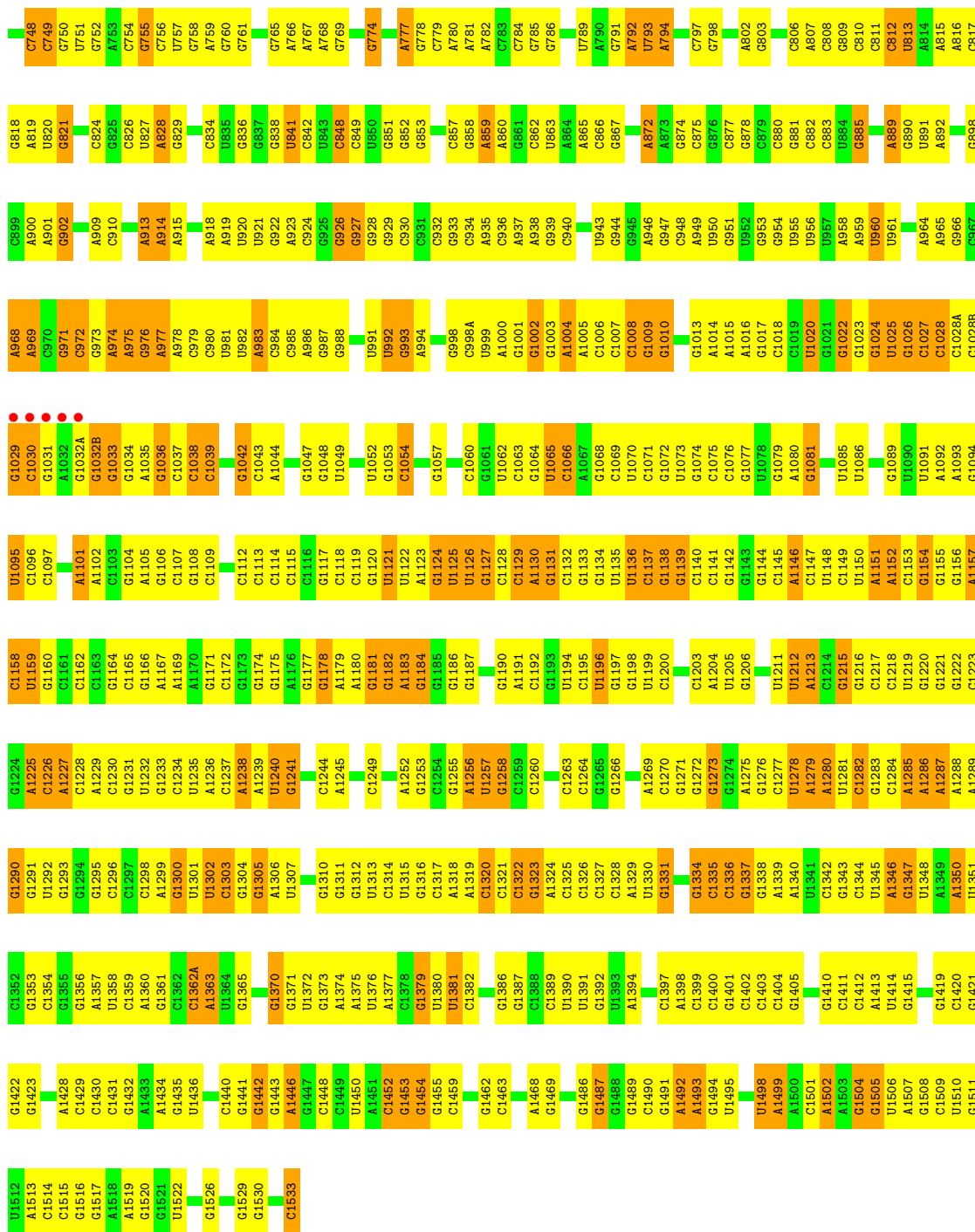


### 3 Residue-property plots

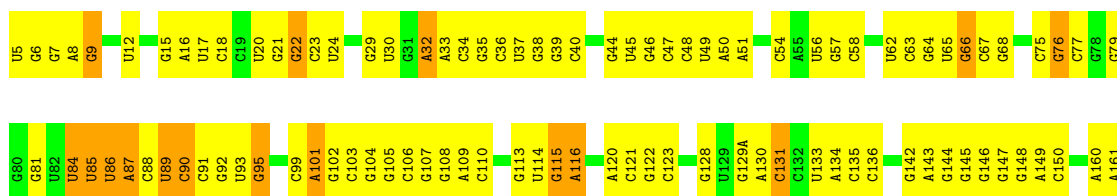
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

- Molecule 1: 16S ribosomal RNA

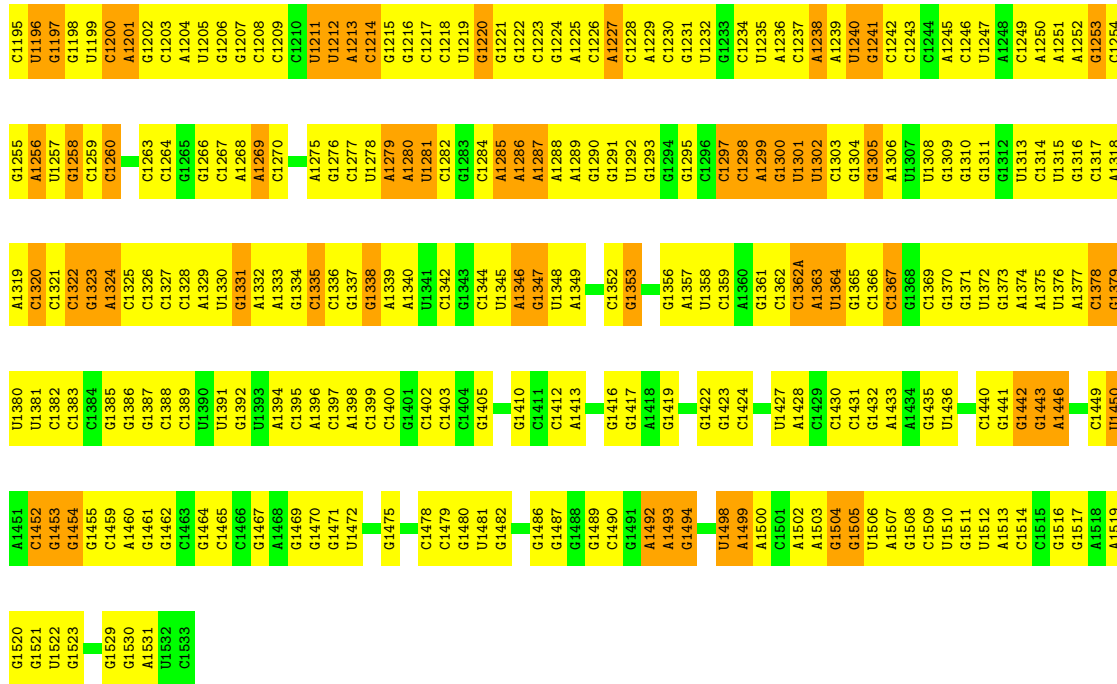




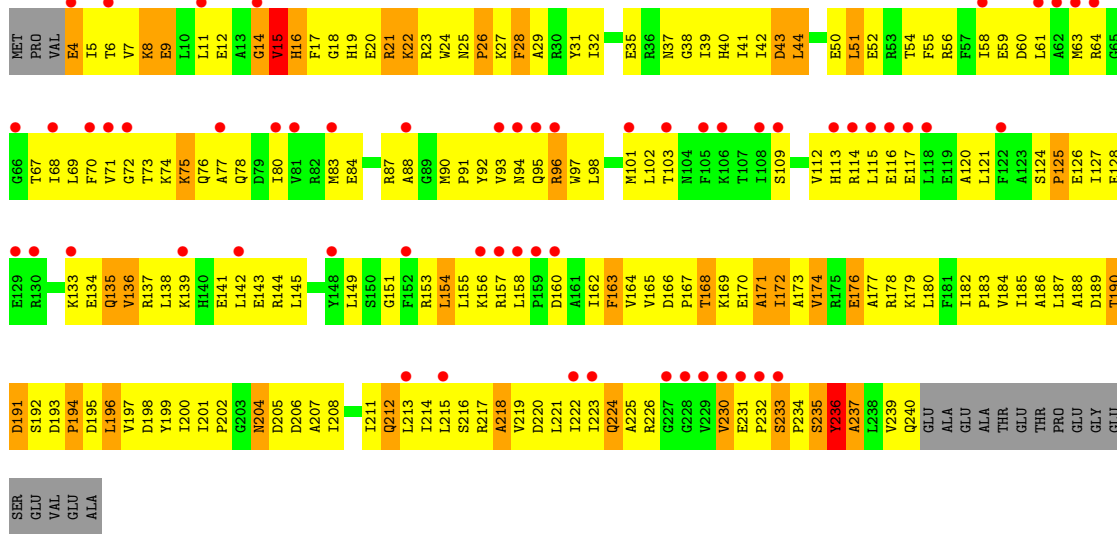
● Molecule 1: 16S ribosomal RNA



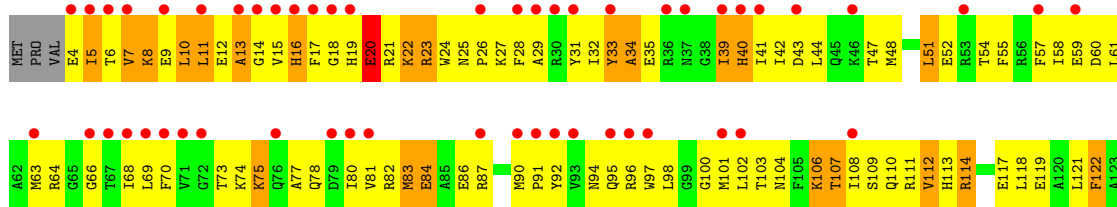
C1128	C1129	G1131	G1132	G1133	G1134	U1136	G1075	G1076	G1077	G1078	G1079	A1080	G1141	G1142	G1143	G1144	G1145	A1146	C1147	U1148	C1149	U1150	A1151	A1152	C1153	G1154	C1155	A1156	A1157	C1158	U1159	C1160	C1161	C1162	A1167	A1169	C1172	G1173	A1176	G1177	G1178	A1179	A1180	G1181	G1182	A1183	G1184	G1185	G1186	G1187	A1188	A1189	U1190	A1191	U1192	C1193	C1194	A1195	A1196	A1197	G1198	G1199	G2000	C2001	U2002	C2003	C2004	U2005	U2006	U2007	U2008	C2009	C2010	C2011	C2012	C2013	C2014	C2015	C2016	C2017	C2018	C2019	C2020	C2021	U2022	C2023	C2024																																																																																																																																																																																																																																																																																																																																																																																																																																																							
G1067	G1068	C1069	U1070	G1071	G1072	U1073	G1074	U1075	U1076	U1077	U1078	G1079	A1080	G1081	G1082	U1083	G1084	U1085	U1086	U1087	U1088	G1089	U1090	U1091	A1092	A1093	G1094	U1095	U1096	C1097	C1098	U1099	C1100	A1101	A1102	C1103	G1104	A1105	G1106	C1107	G1108	C1109	A1110	A1111	C1112	G1113	C1114	G1117	C1118	C1119	G1120	U1121	U1122	A1123	G1124	U1125	U1126	C1127	C1128	C1129	C1130	C1131	C1132	C1133	C1134	C1135	C1136	C1137	C1138	C1139	C1140	C1141	C1142	C1143	C1144	C1145	C1146	C1147	C1148	C1149	C1150	C1151	C1152	C1153	C1154	C1155	C1156	C1157	C1158	C1159	C1160	C1161	C1162	C1163	C1164	C1165	C1166	C1167	C1168	C1169	C1170	C1171	C1172	C1173	C1174	C1175	C1176	C1177	C1178	C1179	C1180	C1181	C1182	C1183	C1184	C1185	C1186	C1187	C1188	C1189	C1190	C1191	C1192	C1193	C1194	C1195	C1196	C1197	C1198	C1199	C1200	C1201	C1202	C1203	C1204	C1205	C1206	C1207	C1208	C1209	C1210	C1211	C1212	C1213	C1214	C1215	C1216	C1217	C1218	C1219	C1220	C1221	C1222	C1223	C1224																																																																																																																																																																																																																																																																																																																																																																																			
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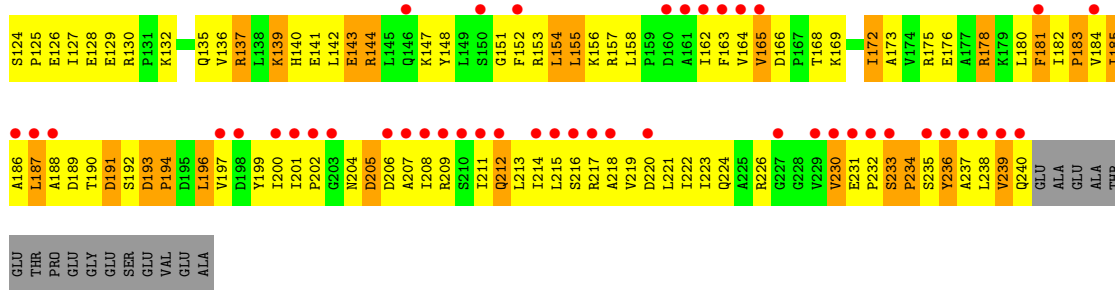


• Molecule 2: 30S RIBOSOMAL PROTEIN S2

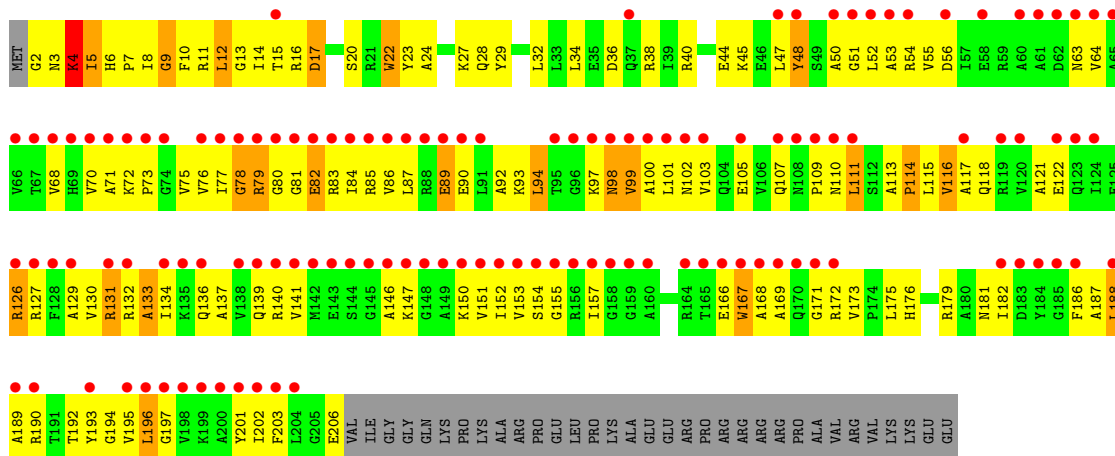


• Molecule 2: 30S RIBOSOMAL PROTEIN S2

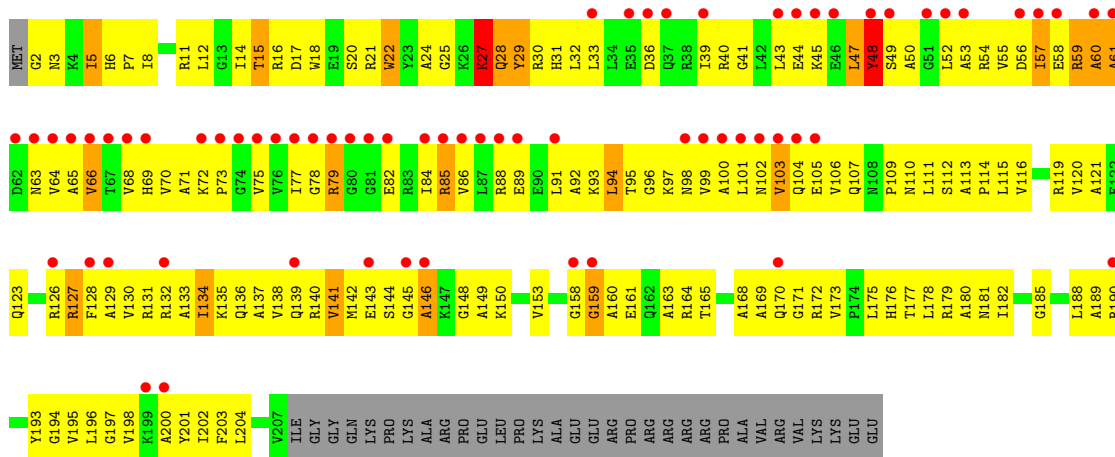
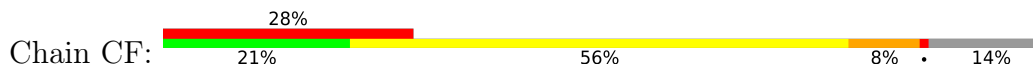




• Molecule 3: 30S RIBOSOMAL PROTEIN S3

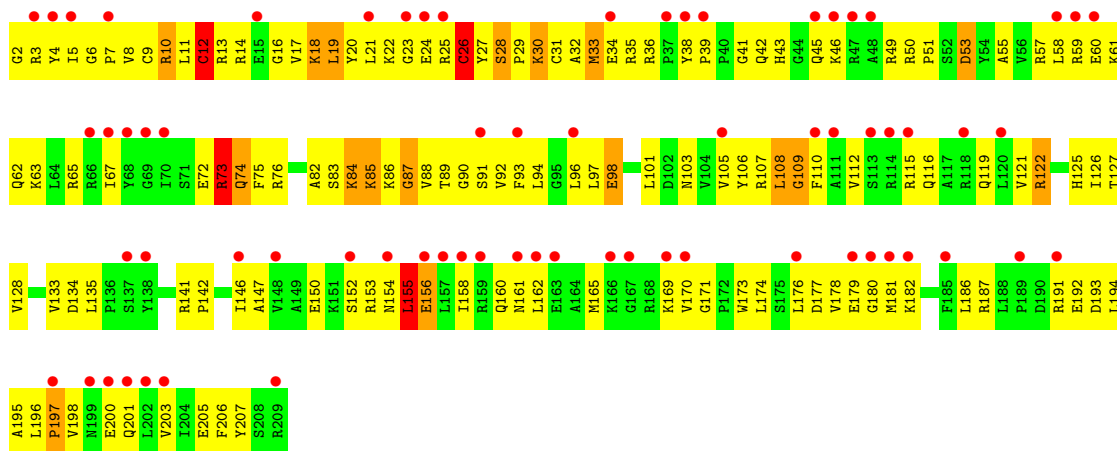


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

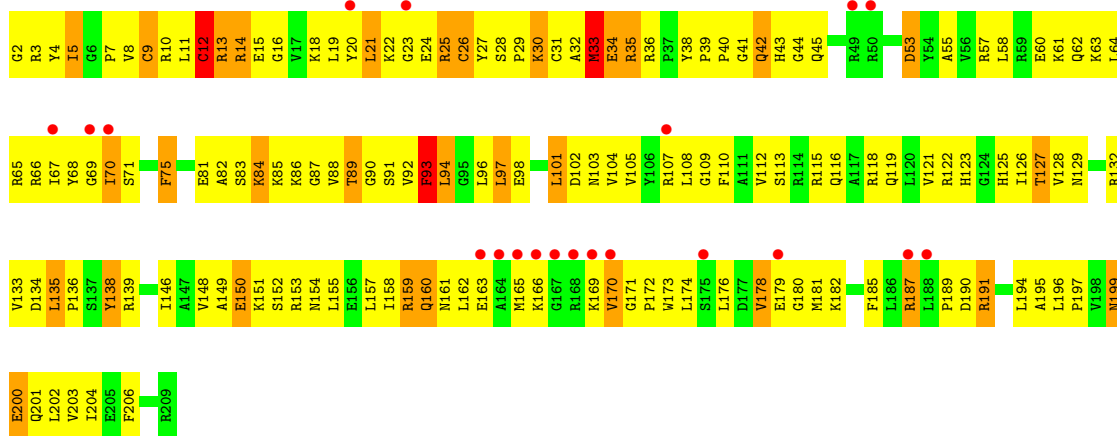


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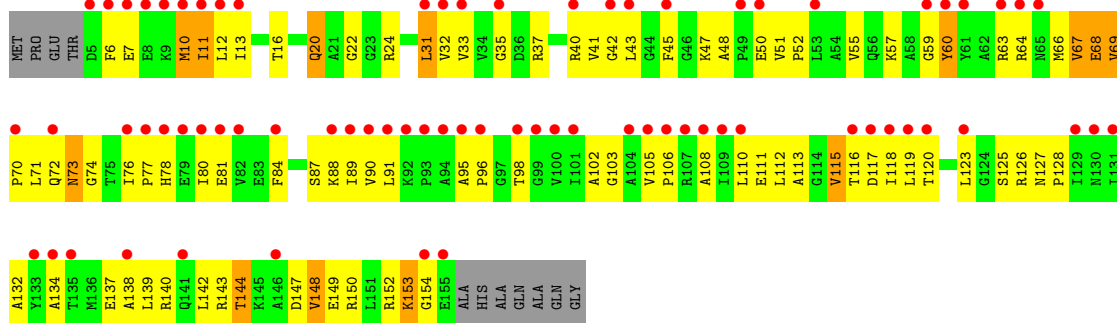
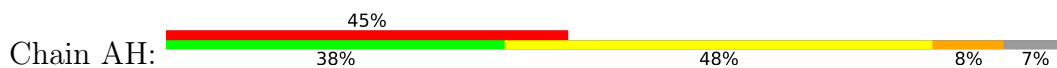




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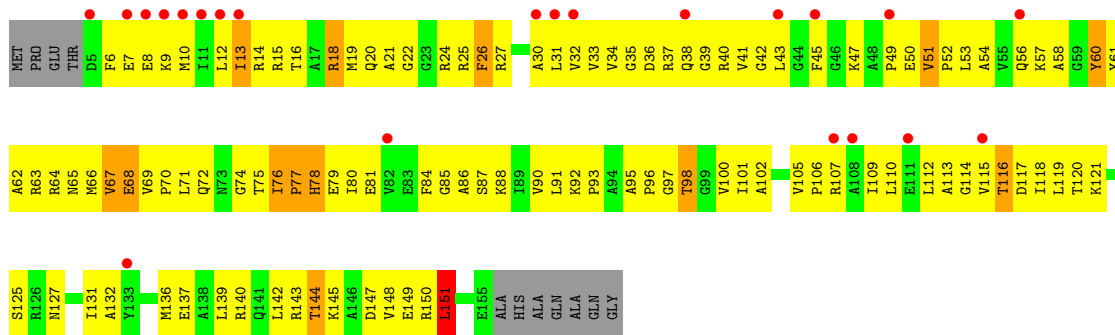


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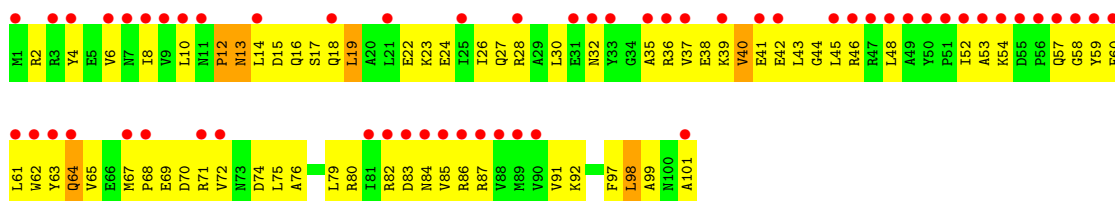


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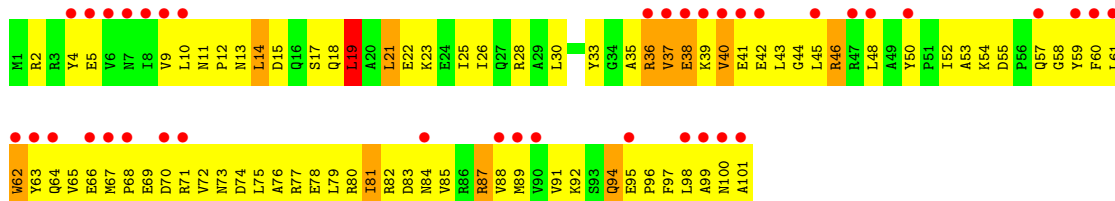




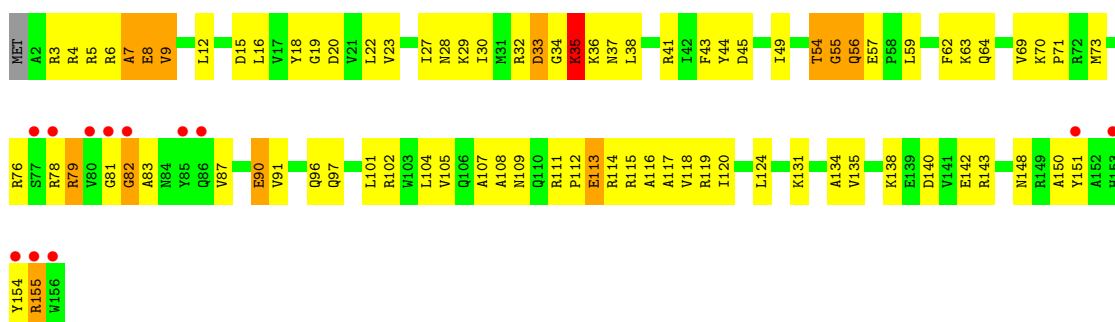
• Molecule 6: 30S RIBOSOMAL PROTEIN S6



• Molecule 6: 30S RIBOSOMAL PROTEIN S6

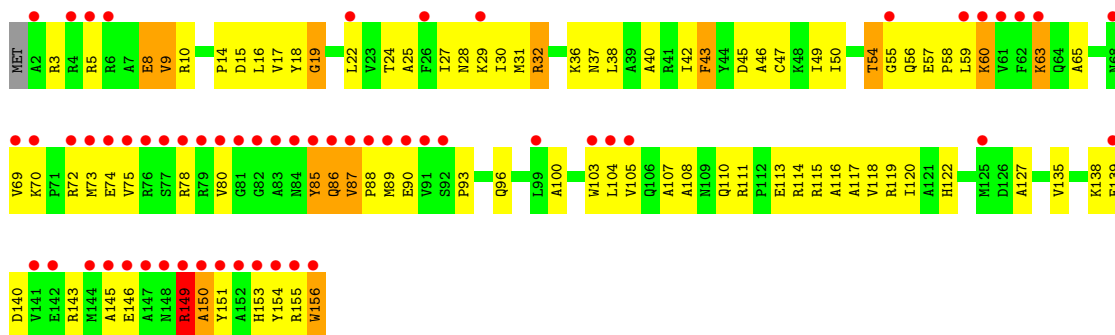


• Molecule 7: 30S RIBOSOMAL PROTEIN S7

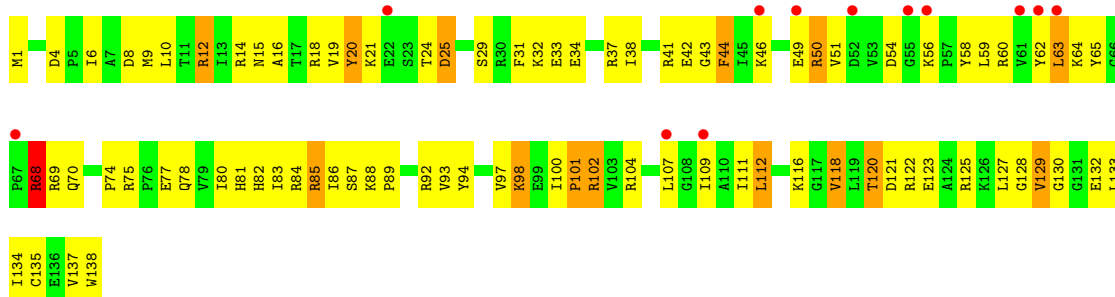


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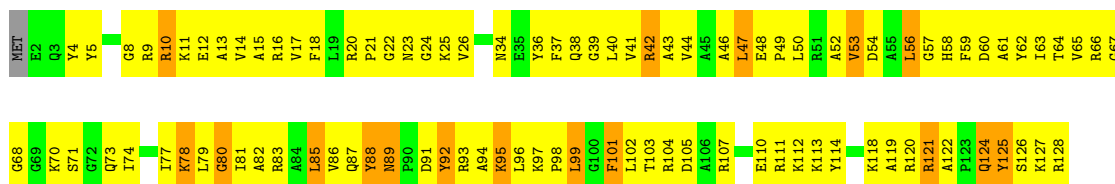
• Molecule 8: 30S RIBOSOMAL PROTEIN S8



• Molecule 8: 30S RIBOSOMAL PROTEIN S8

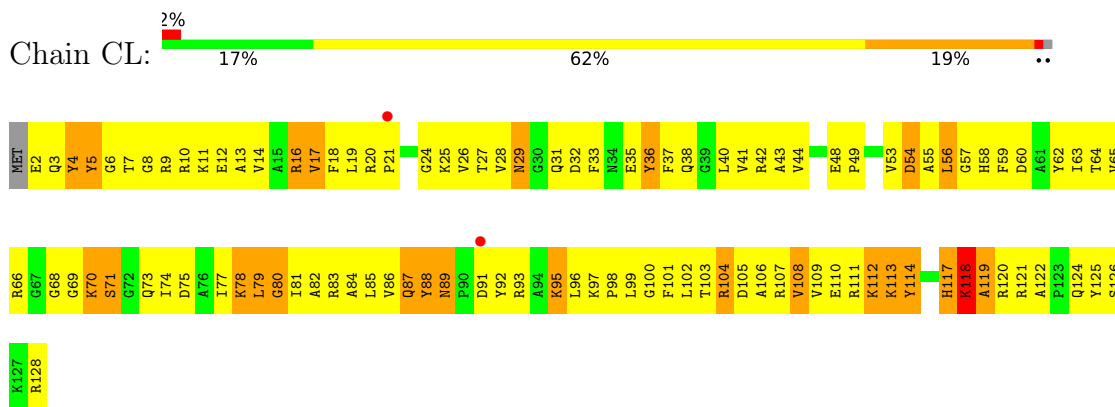


• Molecule 9: 30S RIBOSOMAL PROTEIN S9

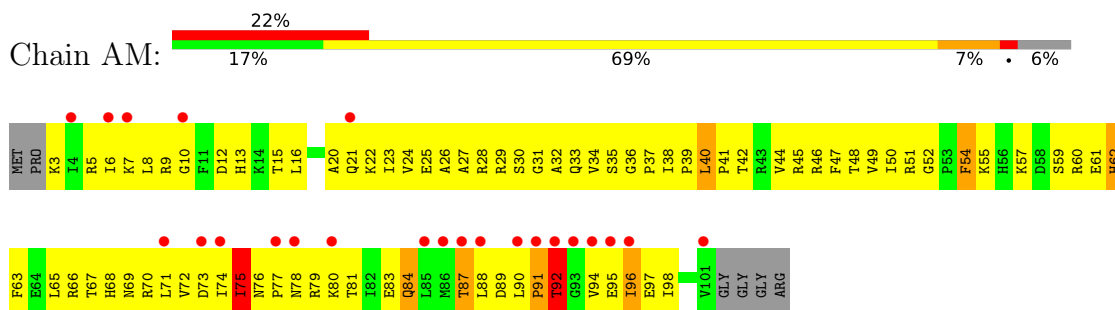


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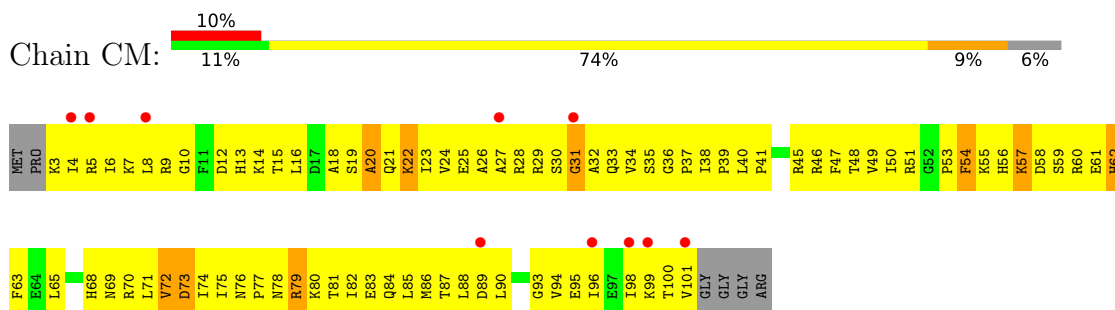




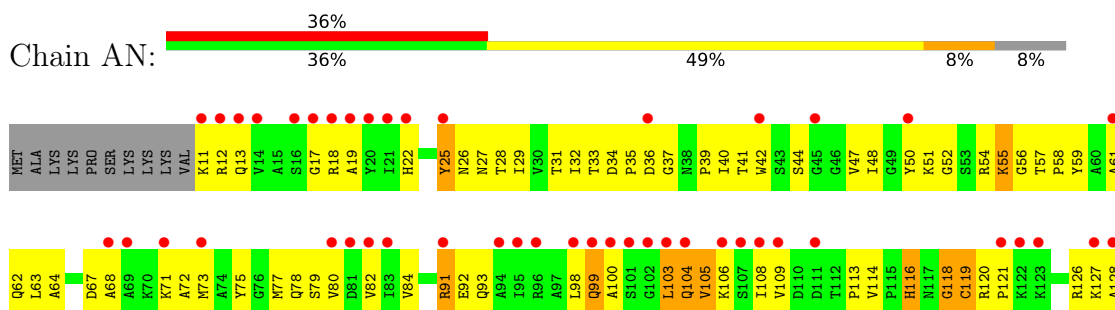
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 10: 30S RIBOSOMAL PROTEIN S10

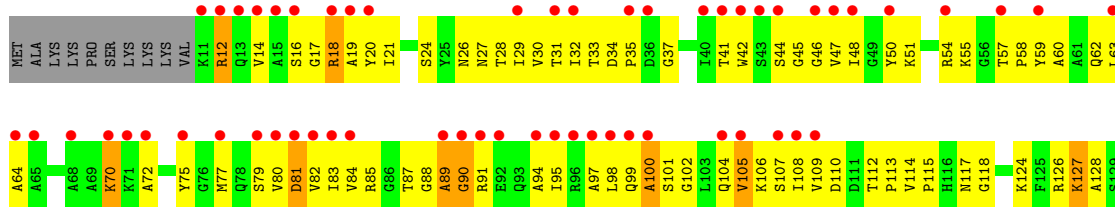


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

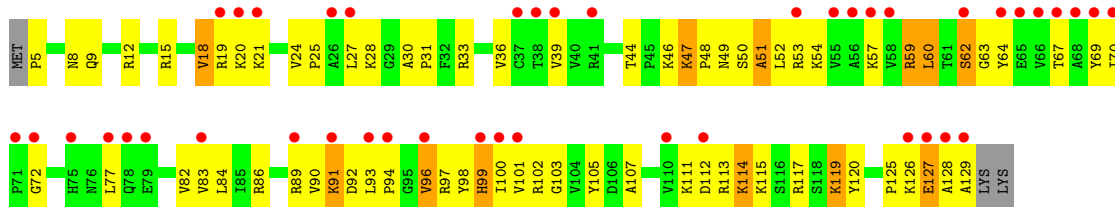


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

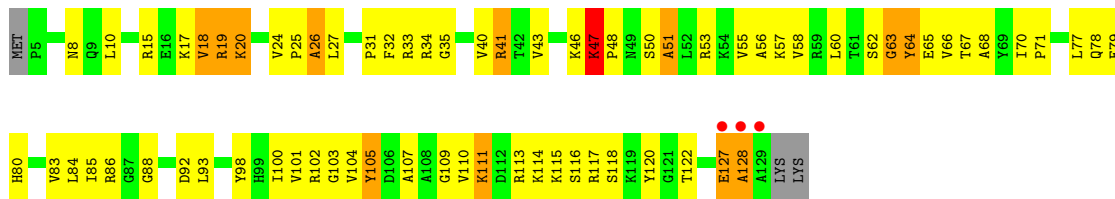




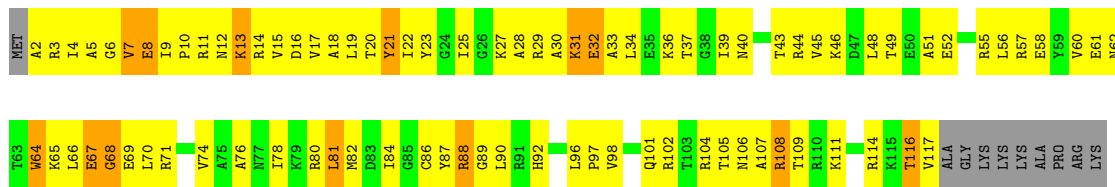
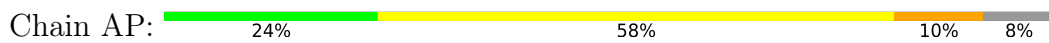
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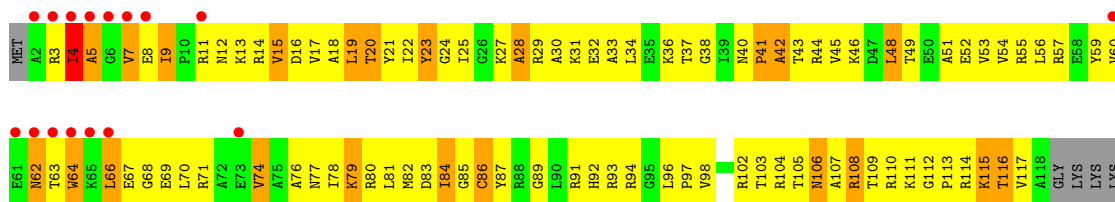
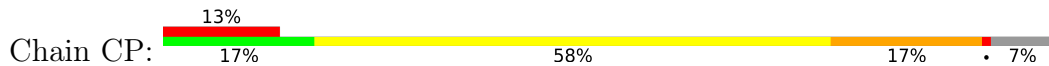
• Molecule 12: 30S RIBOSOMAL PROTEIN S12



• Molecule 13: 30S RIBOSOMAL PROTEIN S13

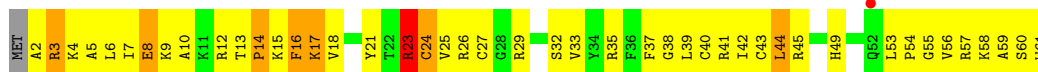


• Molecule 13: 30S RIBOSOMAL PROTEIN S13

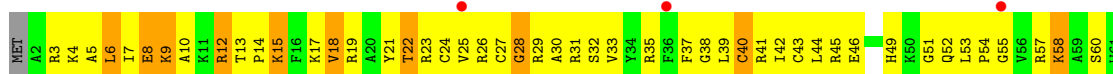


ALA  
PRO  
ARG  
LYS

• Molecule 14: 30S RIBOSOMAL PROTEIN S14



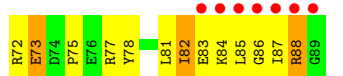
• Molecule 14: 30S RIBOSOMAL PROTEIN S14



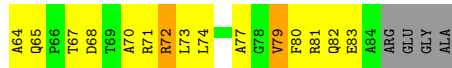
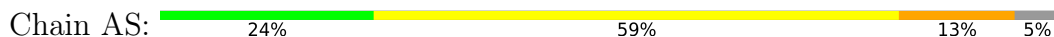
• Molecule 15: 30S RIBOSOMAL PROTEIN S15



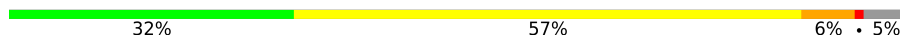
• Molecule 15: 30S RIBOSOMAL PROTEIN S15

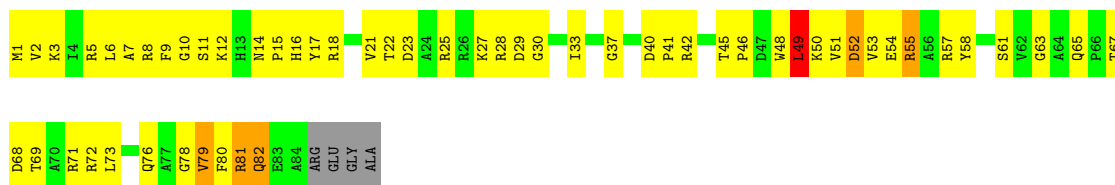


• Molecule 16: 30S RIBOSOMAL PROTEIN S16

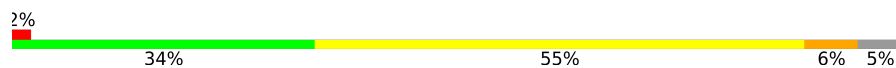


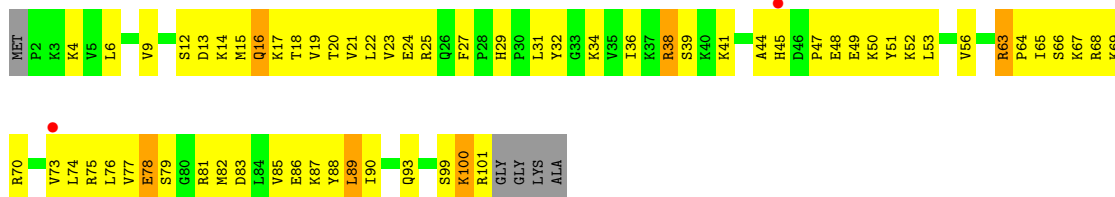
• Molecule 16: 30S RIBOSOMAL PROTEIN S16

Chain CS: 



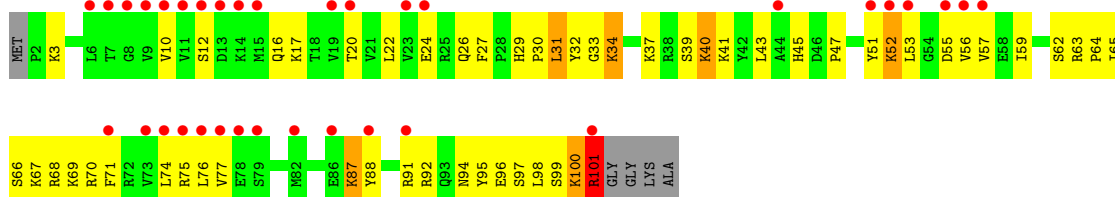
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain AT: 



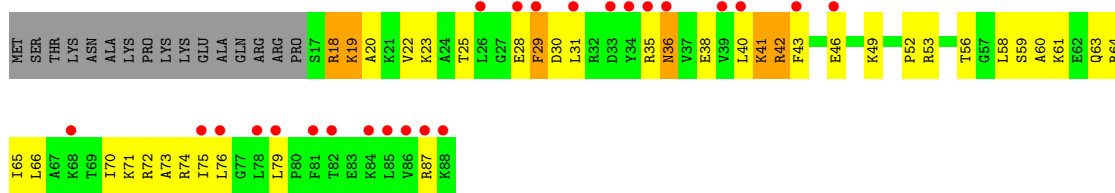
• Molecule 17: 30S RIBOSOMAL PROTEIN S17

Chain CT: 



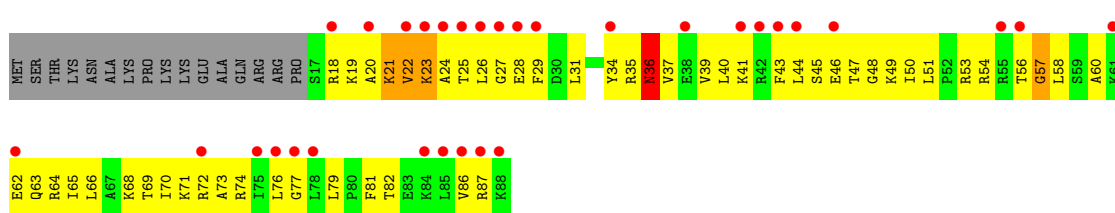
• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain AU: 



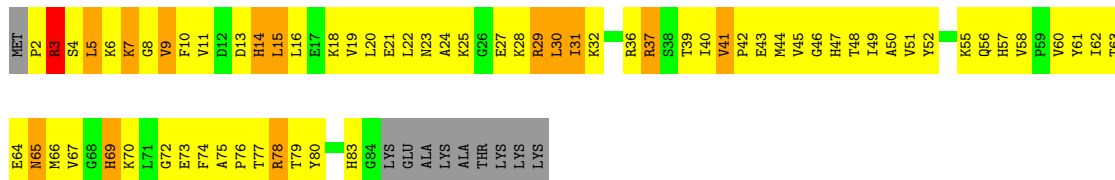
• Molecule 18: 30S RIBOSOMAL PROTEIN S18

Chain CU: 



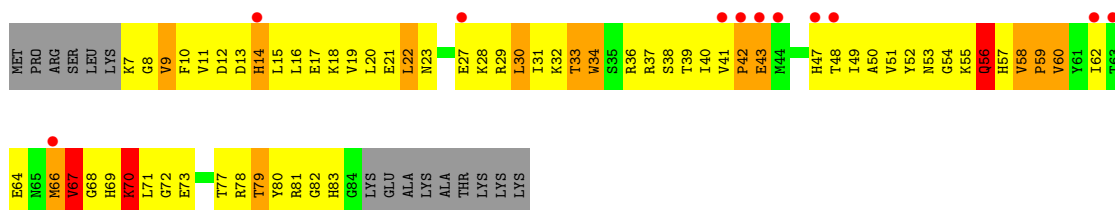
- Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain AV: 16% 58% 14% 11%



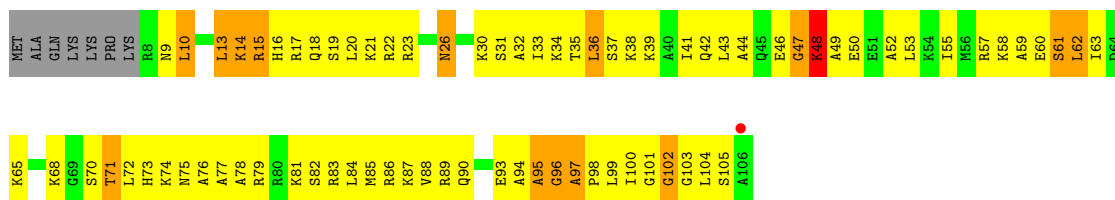
- Molecule 19: 30S RIBOSOMAL PROTEIN S19

Chain CV: 12% 15% 52% 14% 16%



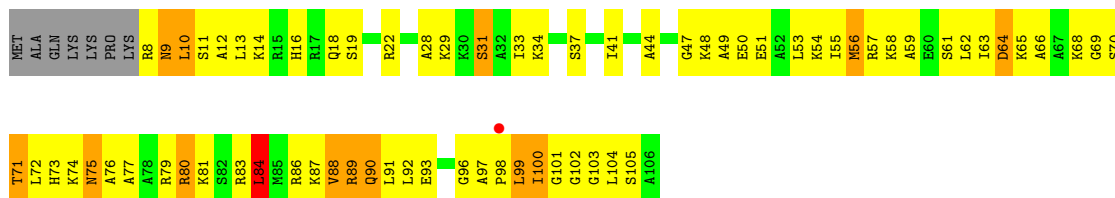
- Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain AW: 20% 59% 13% 7%



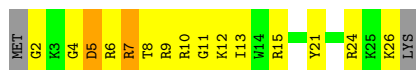
- Molecule 20: 30S RIBOSOMAL PROTEIN S20

Chain CW: 27% 53% 12% 7%

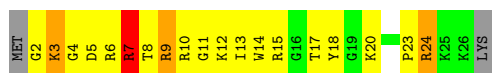
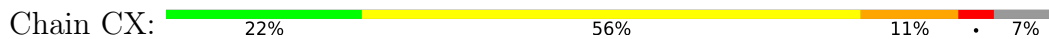


- Molecule 21: 30S RIBOSOMAL PROTEIN THX

Chain AX: 37% 48% 7% 7%



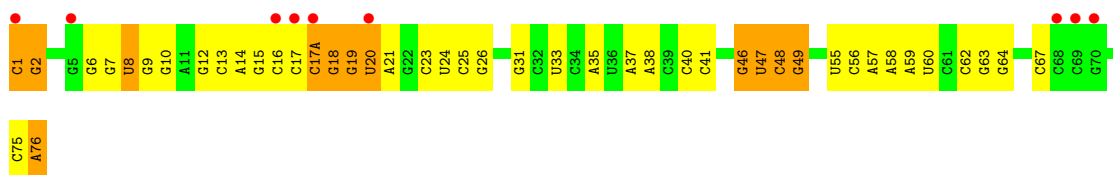
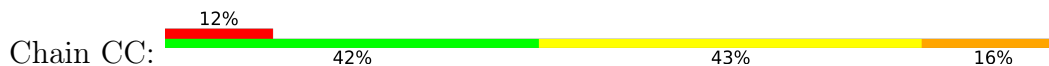
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



• Molecule 22: TRNA-FMET



• Molecule 22: TRNA-FMET



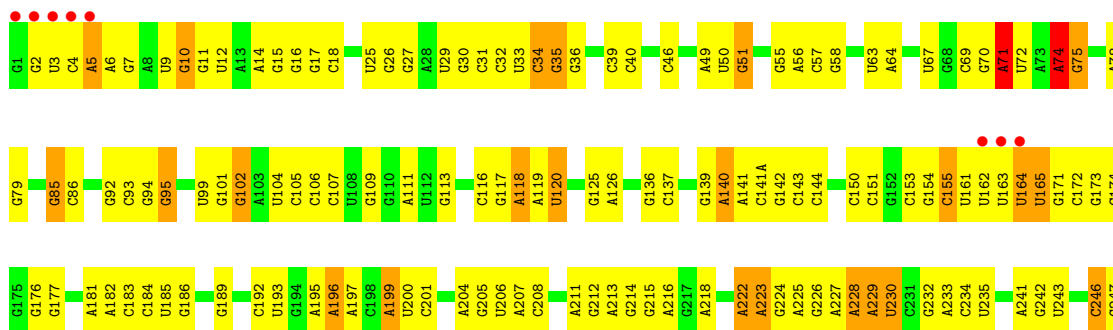
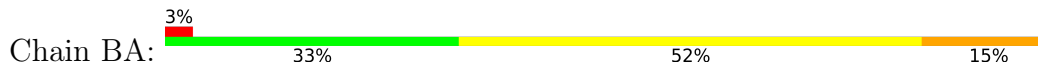
• Molecule 23: MRNA



• Molecule 23: MRNA



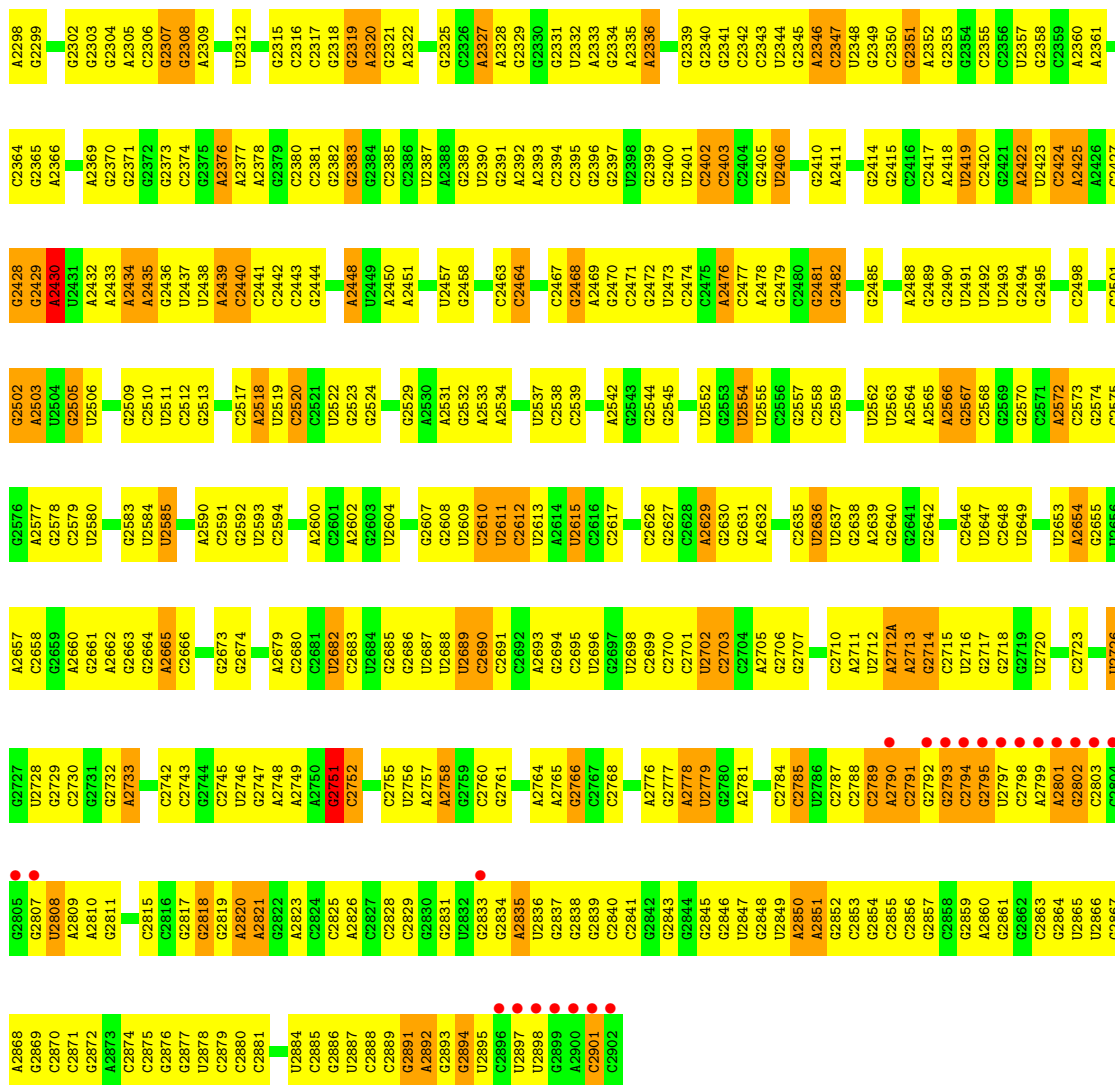
• Molecule 24: 23S ribosomal RNA



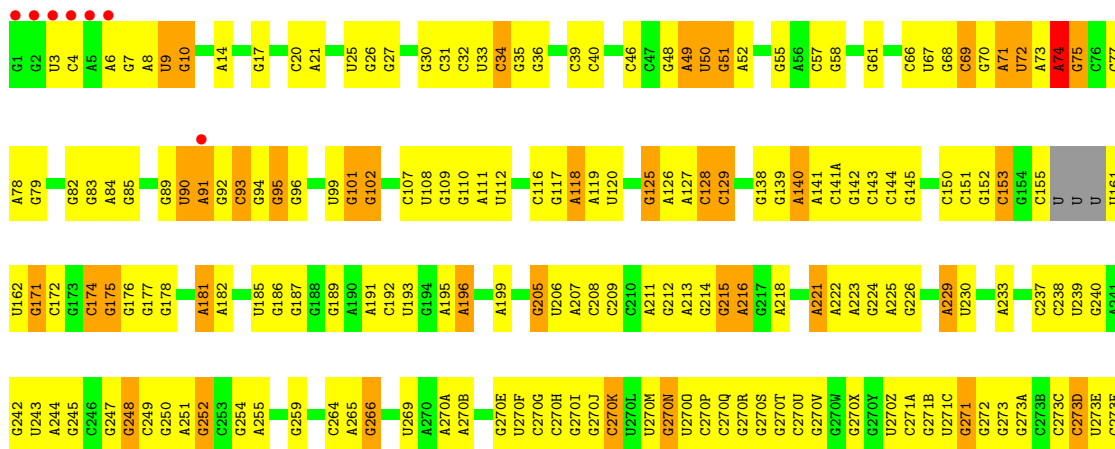
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G1201	U1130	U1066	C998	G928	U860	A793	G729	U607	G530	A460	A371	C297	C249	
C1202	G1131	A1067	U999	G929	A863	G794	C730	A608	C531	C462	G298	G298	G250	
G1203	U1068	G1068	A1000	U930	G864	C795	G733	C611	G533	U383	A300	G300	A251	
A1204	G1133	A1069	G1001	G931	C865	C796	G734	U612	U534	U464	U384	G301	G252	
U1205	G1136	A1070	G1002	G932	A866	C797	A735	U613	C535	C465	C385	C302	G254	
G1206	G1137	G1071	A933	A933	A867	G798	C736	U614	A536	A466	G386	G303		
G1207	U1138	C1072	G939	G939	U868	A800	C737	G615	C537	U387	U304	U304	G259	
G1208	A1073	A1073	A941	A941	G869	G801	G738	G616	G539	A467	G388	U305	G260	
G1209	G1074	G1074	U942	U942	G870	A802	G739	G617	G540	C469	U306	U306	G261	
A1210	U1141	C1075	G944	G944	G875	G805	G740	G618	C541	A470	G308	G308		
U1211	U1141	A1076	U943	U943	G874	G806	G741	G619	G545	A471	G309	A265	A265	
G1212	A1142A	U1077	G944	G944	G875	C806	G742	G620	C546	A472	G310	G286	G286	
A1213	A1143	C1079	A945	A945	U877	G807	G743	G621	A548	G473	A311	U270F	U270F	
G1216	C1145	U1081	G946	G946	A878	G809	G744	A547	A548	U475	A314	C270G	C270G	
A1220	C1147	U1082	G947	G947	G879	U810	G745	G622	A548	U476	G315	G270H	G270H	
C1221	U1083	U1083	G950	G950	G880	U811	U747	U667	G552	A477	A314	G270I	G270I	
C1222	A1148	A1084	C951	C951	G881	C812	G748	U626	U553	A478	A320	C270J	C270J	
G1223	G1149	A1085	G952	G952	G882	U813	C749	A627	U554	A479	A320	G270K	G270K	
G1224	C1150	A1086	A953	A953	G883	C814	A750	A628	C556	A480	G321	U270L	U270L	
G1225	G1151	G1087	G954	G954	C884	C815	G751	G629	U557	C481	A322	U270M	U270M	
G1226	C1152	A1088	C955	C955	C885	C816	A752	G630	G558	C414	G323	G270N	G270N	
A1227	C1153	G1089	G956	G956	C886	C817	C753	A631	G559	A482	A324	U270O	U270O	
G1228	G1154	U1090	A957	A957	A887	C818	C754	A632	C574	A483	C416	C270P	C270P	
G1236	A1155	C1091	U958	U958	C888	A819	C755	A633	G563	G488	C417	G270Q	G270Q	
A1237	C1161	G1092	A959	A959	C889	A820	C756	C634	C564	C489	C420	G270R	G270R	
G1238	G1162	U1093	A960	A960	A890	A821	G760	C635	C565	C491	A330	G270S	G270S	
G1239	G1163	A1094	G962	G962	G892	U822	U761	C636	U566	U421	A331	C270T	C270T	
U1240	U1164	U1095	U963	U963	C893	G825	U762	A637	U569	C492	A422	C270U	C270U	
A1241	C1165	U1097	G968	G968	U895	U826	U763	C638	G570	C493	A423	G270V	G270V	
A1242	U1166	A1098	U969	U969	A896	A827	A764	C639	A571	G425	G425	G270X	G270X	
G1243	G1167	G1099	C970	C970	C897	U828	C765	C641	A572	C426	C337	G270Y	G270Y	
G1244	G1168	C1100	C971	C971	C898	A829	C766	G642	G500	G428	G338	C270Z	C270Z	
G1245	G1169	U1101	C972	C972	A899	G830	U767	A643	C574	U428	U339	U271A	U271A	
A1246	G1170	C1102	A973	A973	A900	G831	G768	A644	A502	A431	A340	G271B	G271B	
U1247	G1171	A1103	G974	G974	A901	C834	G769	C645	A503	U504	G342	U271C	U271C	
G1248	U1173	C1104	G975	G975	C902	U834	C770	A646	G579	C580	G343	G271	G271	
U1249	A1174	U1105	C976	C976	C903	C838	C771	G647	C581	C581	C344	G272	G272	
G1250	U1175	G1106	G976	G976	U905	U839	U772	U651	G506	G439	G344	G273	G273	
C1251	G1176	U1107	G977	G977	G906	G840	U773	G652	A507	G440	G352	G273A	G273A	
G1252	A1177	G1108	G977	G977	G906	A841	A774	C653	G508	U441	G352	U273B	U273B	
A1253	C1178	C1109	G978	G978	U907	A705	G775	A653	C509	G442	G355	C273F	C273F	
G1256	U1179	G1110	A980	A980	A908	A706	G776	A654	U511	A443	G356	G274	G274	
G1257	C1180	U1111	U981	U981	C909	G843	U777	C654A	G512	C444	G356	G275	G275	
C1258	C1181	G1112	A982	A982	A910	C844	U778	G654B	A513	C445	A359	A276	A276	
G1259	G1182	U1113	C983	C983	A911	G845	U779	G654C	G514	U448	G361	C277	C277	
G1260	C1183	G1114	C984	C984	C912	C846	A782	G654D	G592	A449	U362	A278	A278	
C1261	G1185	U1115	C985	C985	C915	U847	A783	G654E	G593	A450	G363	C279	C279	
A1262	G1186	A1057	G987	G987	G916	G848	A784	C654F	G594	G451	G363	C285	C285	
U1263	G1187	G1058	A988	A988	A917	A849	G785	C654G	U594	C452	A363A	C286	C286	
G1264	U1188	G1059	G989	G989	A918	C850	C786	C654H	G600	C453	A363B	C287	C287	
A1265	G1191	U1060	G993	G993	G919	U851	U787	C654I	G602	C454	G363C	C288	C288	
G1266	U1192	U1061	C994	C994	G920	G855	A788	C654J	A603	C455	G363D	A289	A289	
U1267	G1193	G1062	C995	C995	C924	C856	A789	C654K	G604	C456	U363E	A289	A289	
A1268	A1194	A1128	A996	A996	C925	U858	C791	C654L	G605	A457	A363F	G290	G290	
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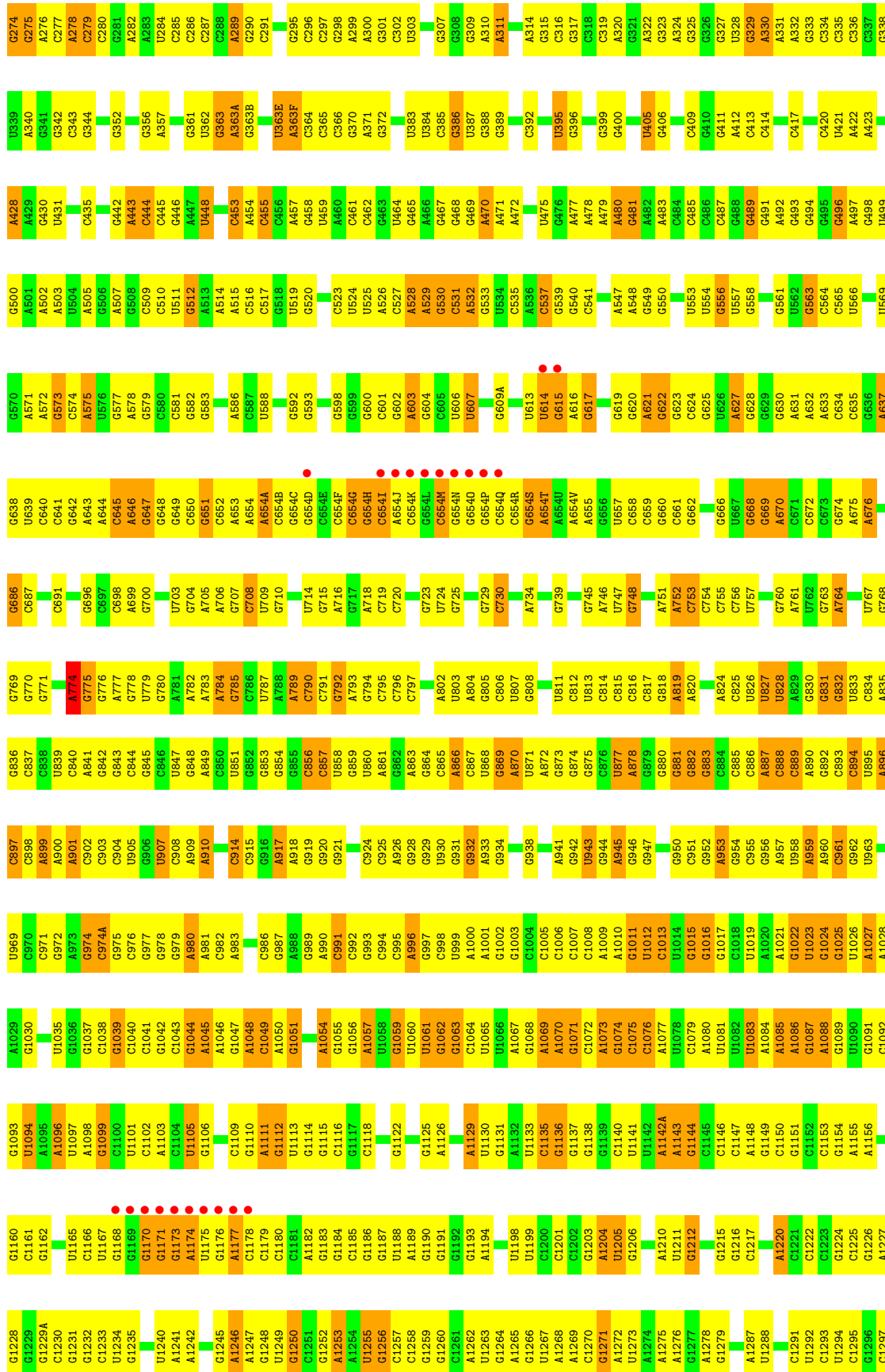




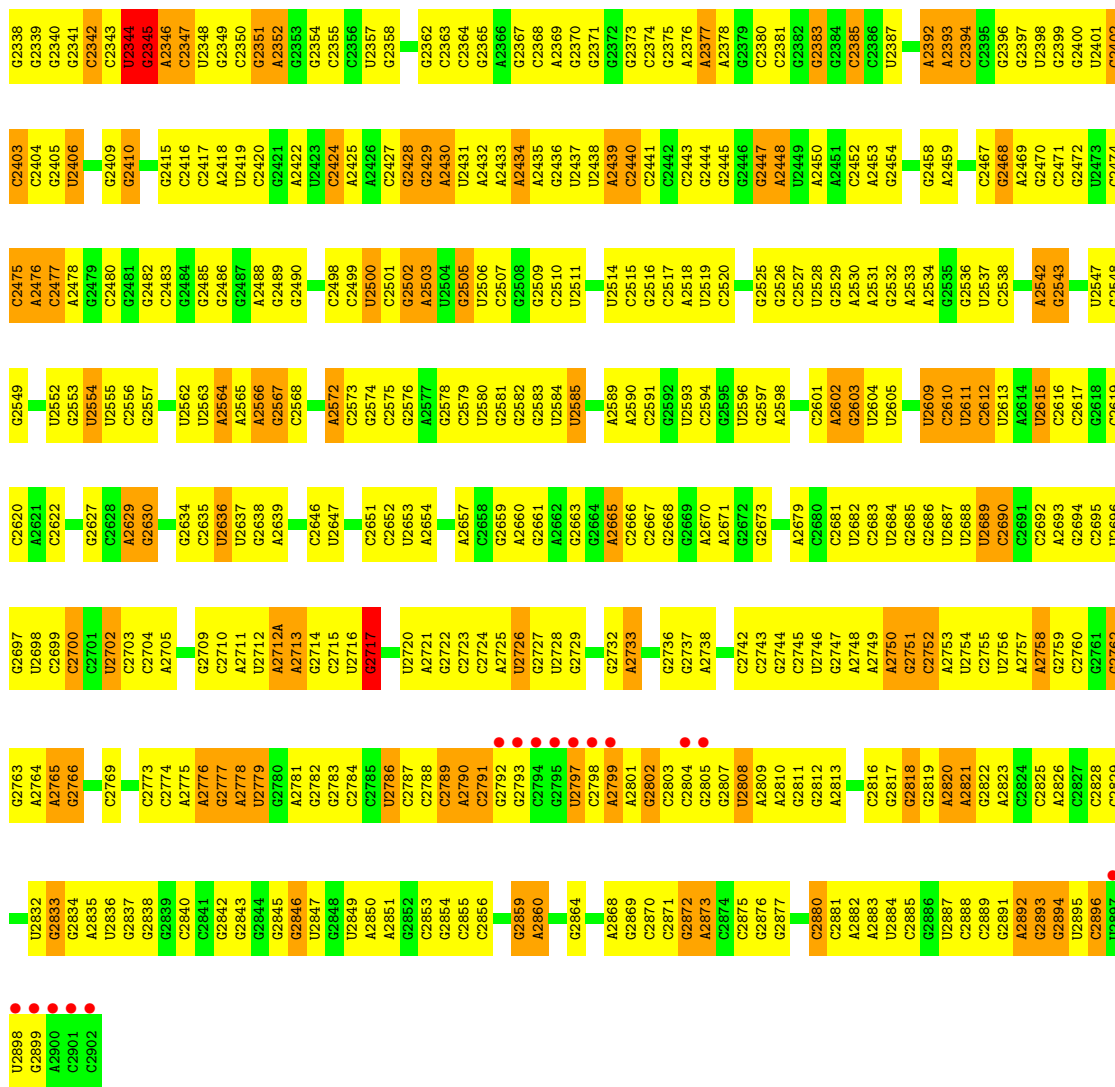


• Molecule 24: 23S ribosomal RNA

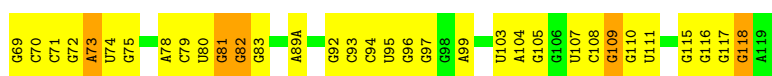




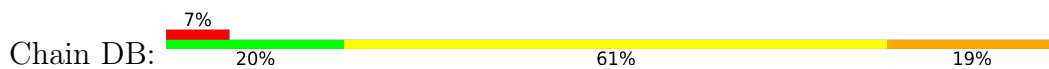




• Molecule 25: 5S RIBOSOMAL RNA

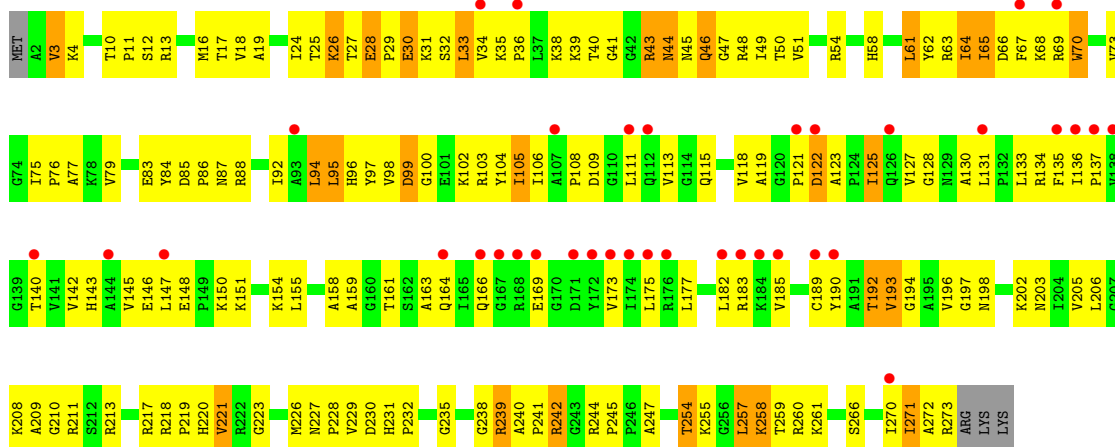


• Molecule 25: 5S RIBOSOMAL RNA

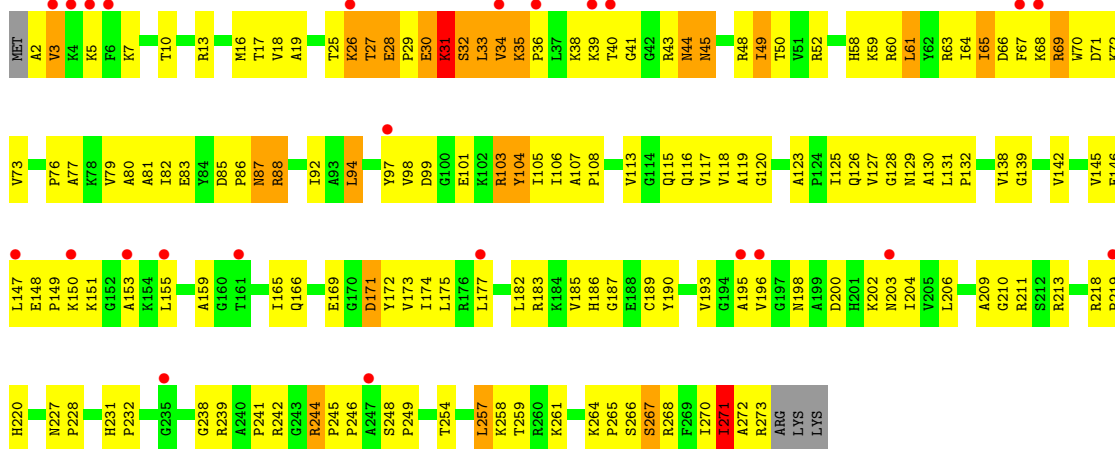




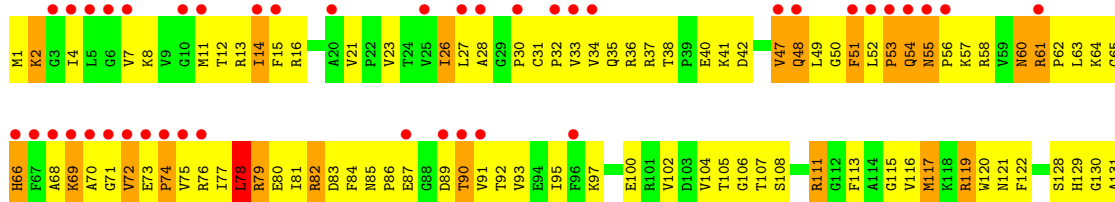
● Molecule 26: 50S ribosomal protein L2

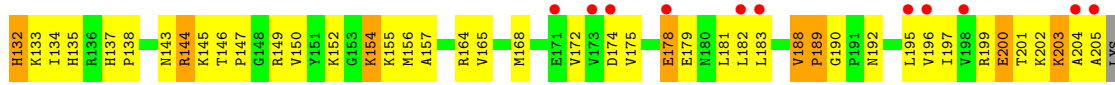


● Molecule 26: 50S ribosomal protein L2

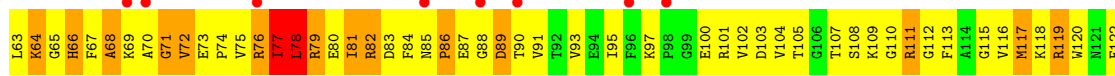
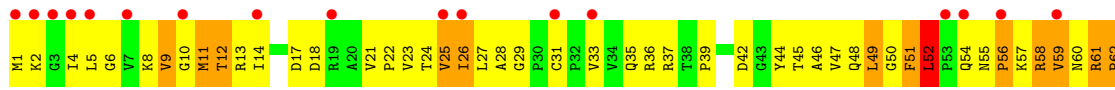


● Molecule 27: 50S ribosomal protein L3

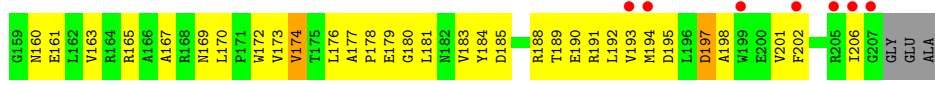
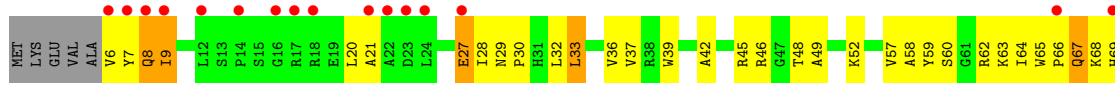




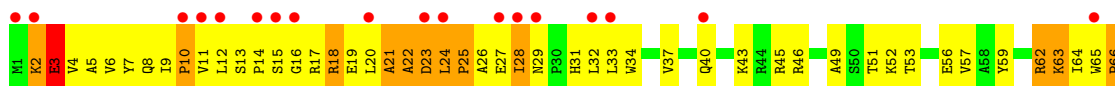
• Molecule 27: 50S ribosomal protein L3

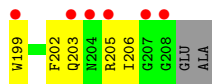


• Molecule 28: 50S ribosomal protein L4

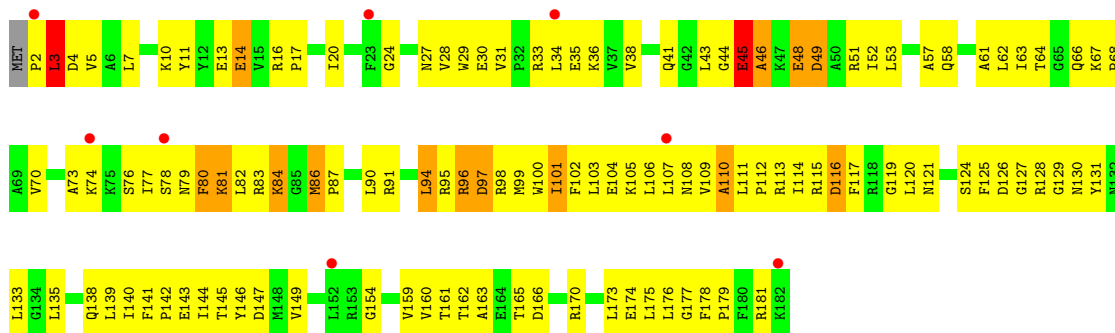


• Molecule 28: 50S ribosomal protein L4

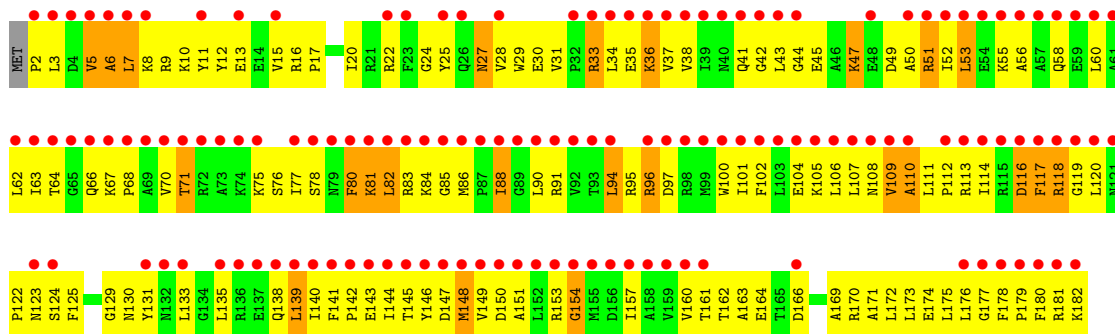
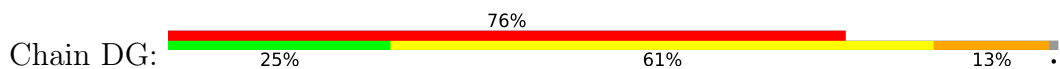




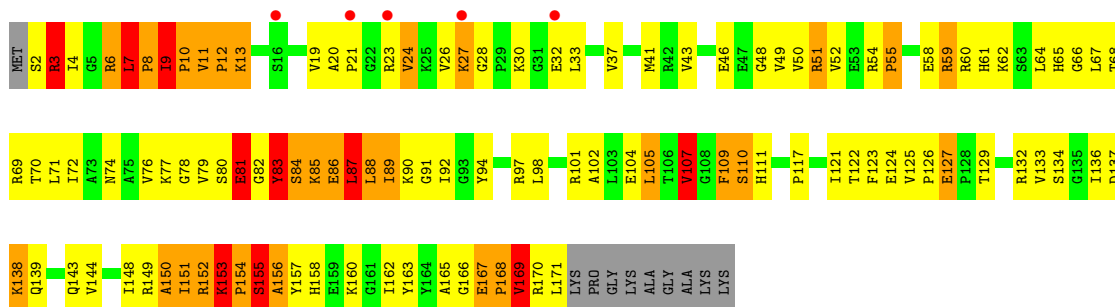
• Molecule 29: 50S ribosomal protein L5



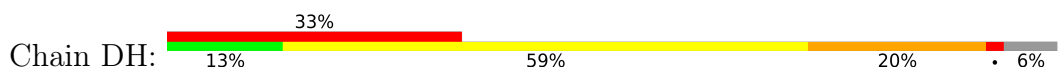
• Molecule 29: 50S ribosomal protein L5

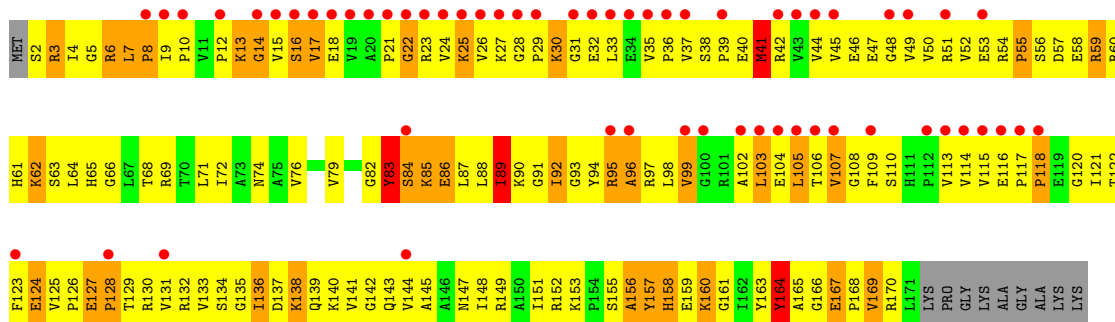


• Molecule 30: 50S ribosomal protein L6

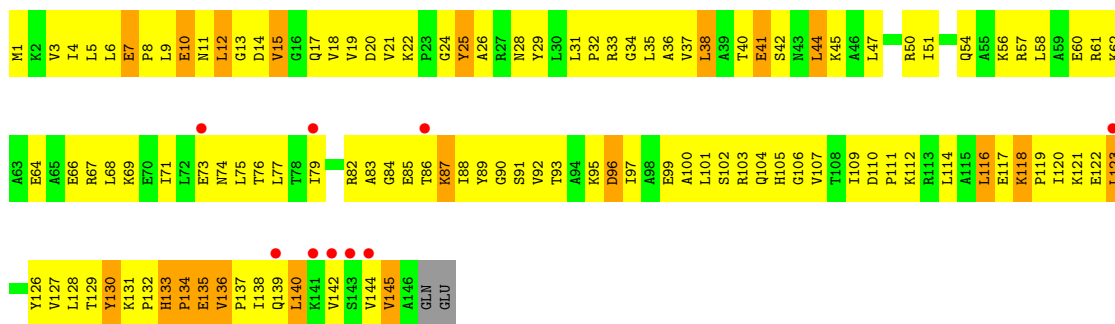


• Molecule 30: 50S ribosomal protein L6





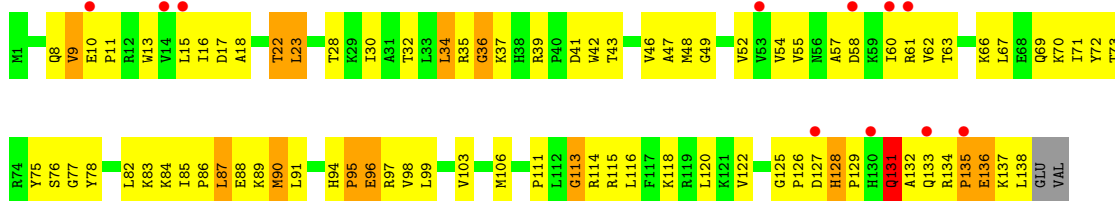
• Molecule 31: 50S ribosomal protein L9



• Molecule 31: 50S ribosomal protein L9

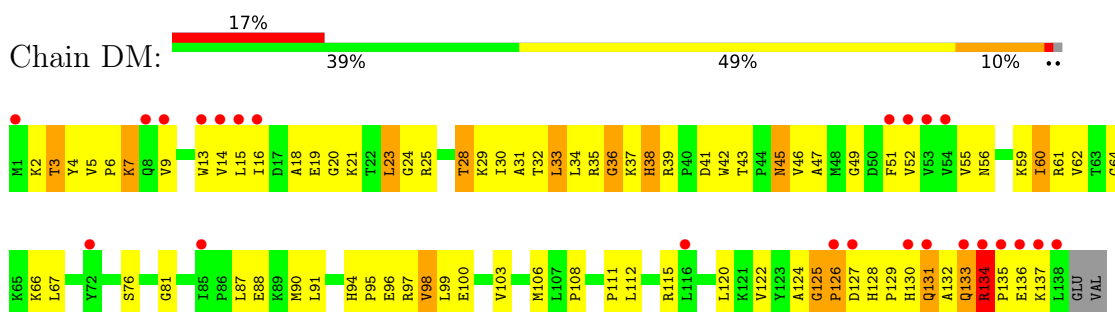


• Molecule 32: 50S ribosomal protein L13

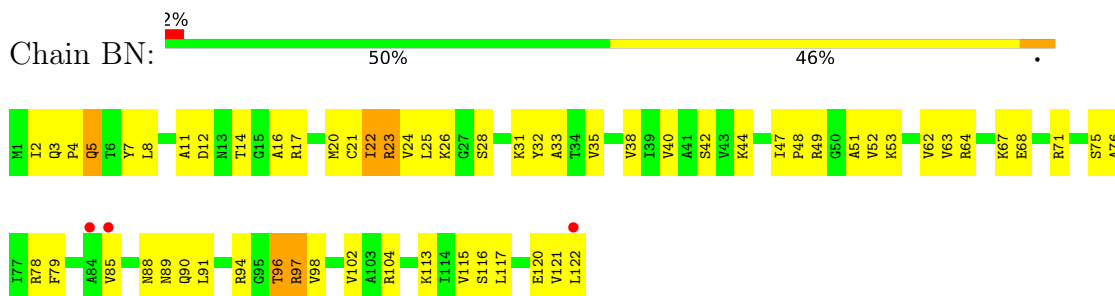


• Molecule 32: 50S ribosomal protein L13

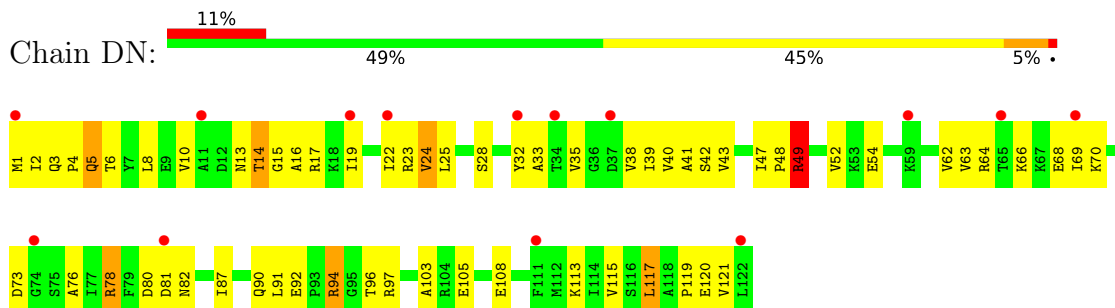




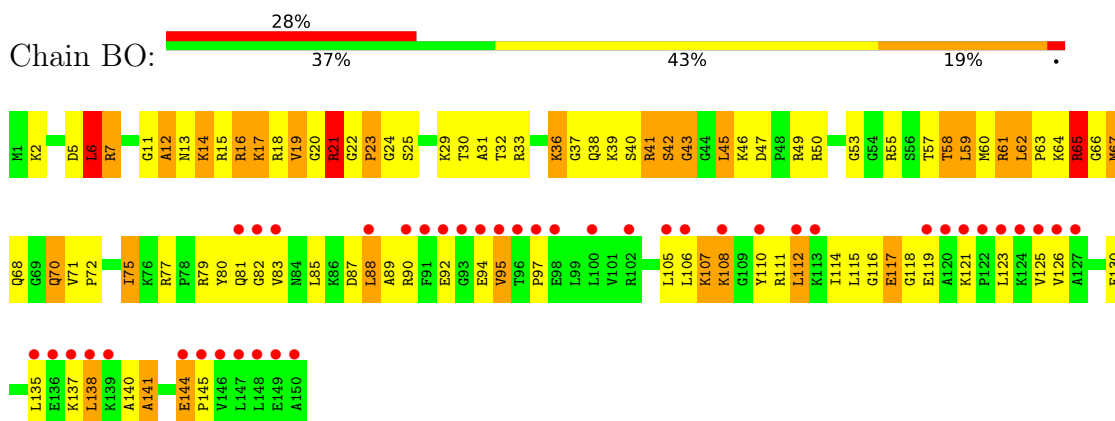
- Molecule 33: 50S ribosomal protein L14



- Molecule 33: 50S ribosomal protein L14

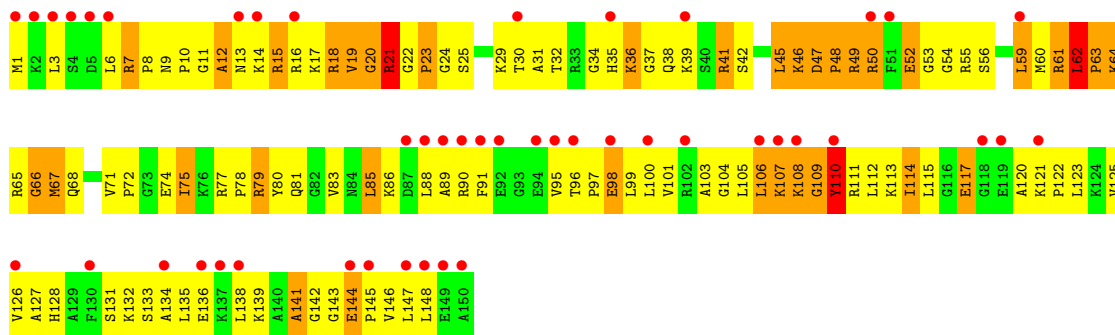


- Molecule 34: 50S ribosomal protein L15

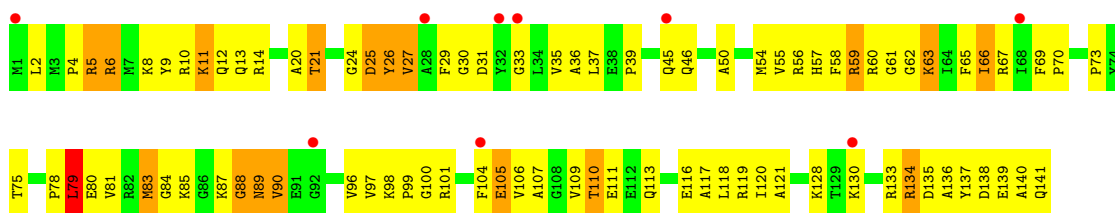


- Molecule 34: 50S ribosomal protein L15

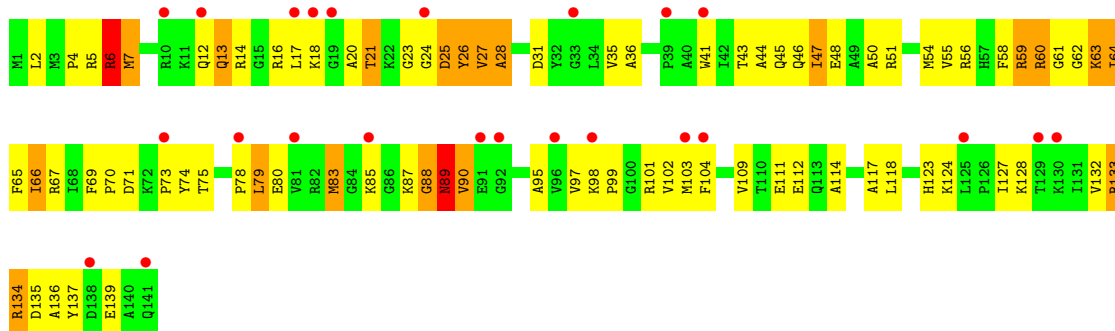




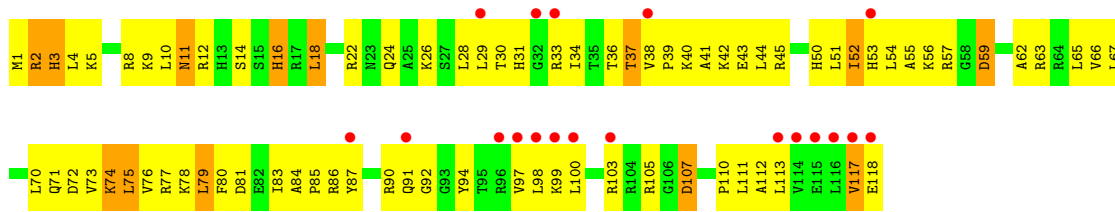
● Molecule 35: 50S ribosomal protein L16



● Molecule 35: 50S ribosomal protein L16

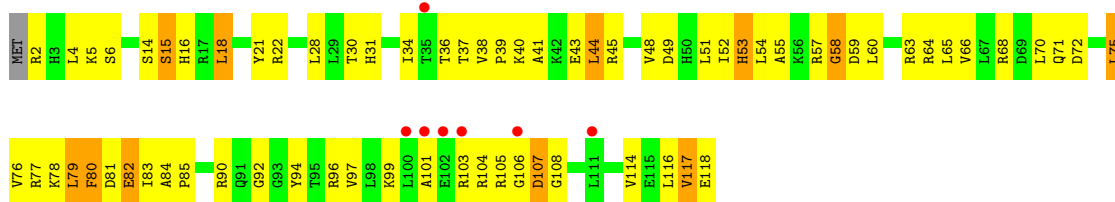


● Molecule 36: 50S ribosomal protein L17

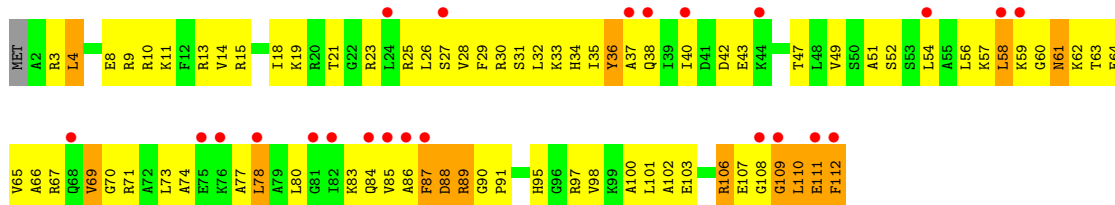


● Molecule 36: 50S ribosomal protein L17

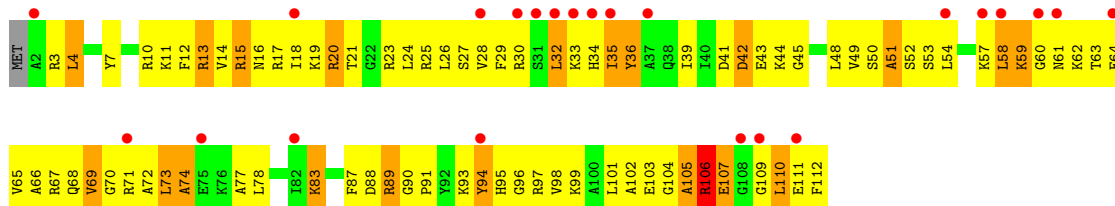




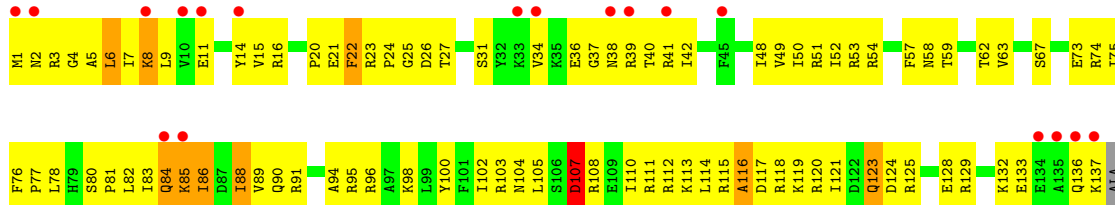
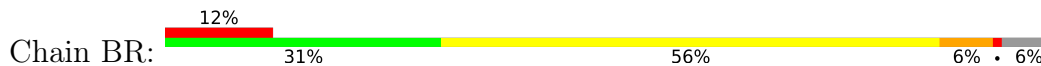
• Molecule 37: 50S ribosomal protein L18



• Molecule 37: 50S ribosomal protein L18

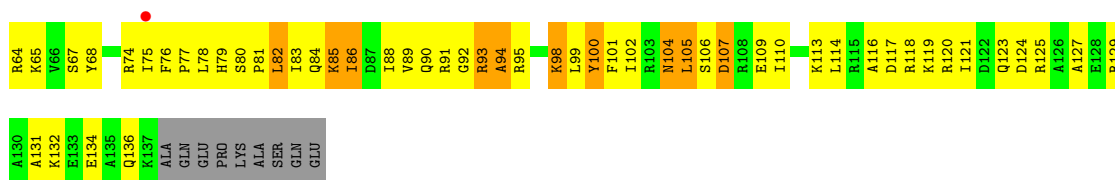


• Molecule 38: 50S ribosomal protein L19

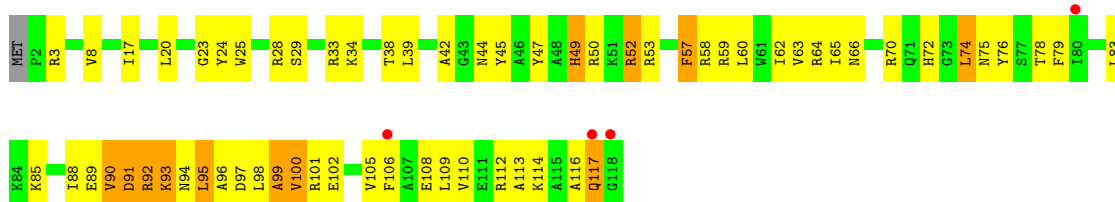


• Molecule 38: 50S ribosomal protein L19

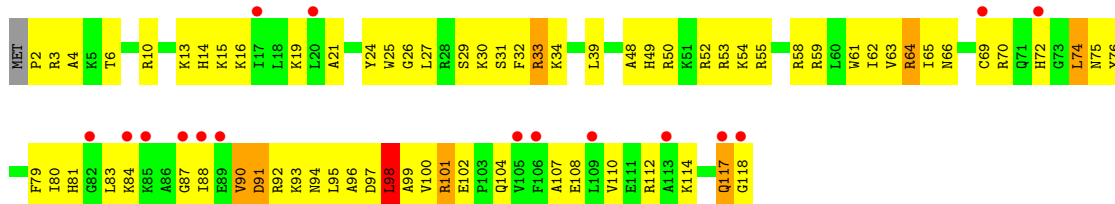




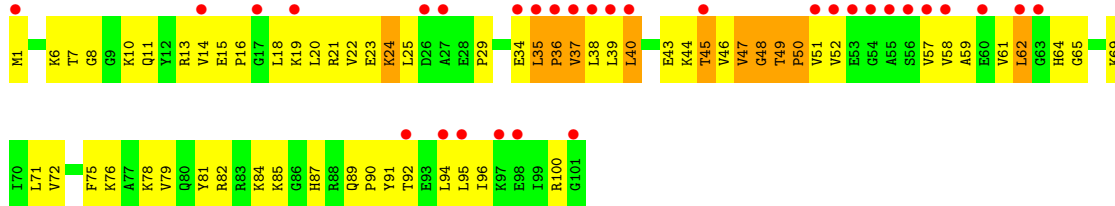
• Molecule 39: 50S ribosomal protein L20



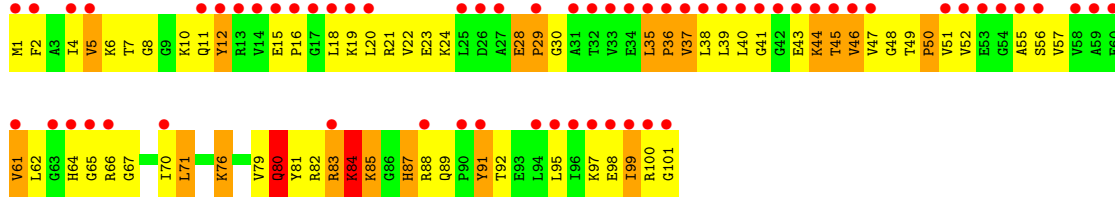
• Molecule 39: 50S ribosomal protein L20



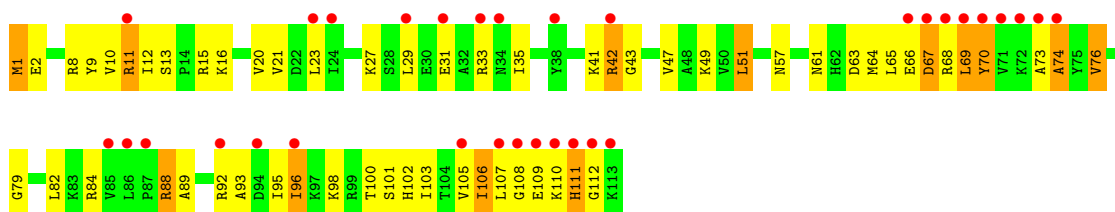
• Molecule 40: 50S ribosomal protein L21



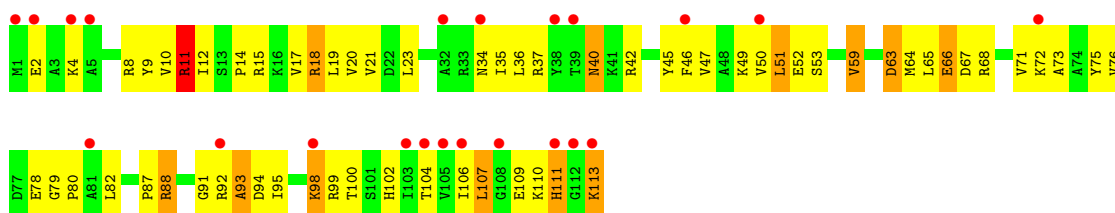
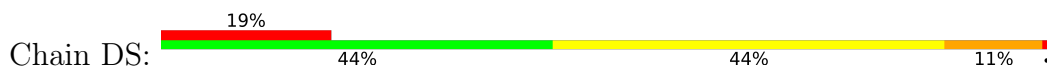
• Molecule 40: 50S ribosomal protein L21



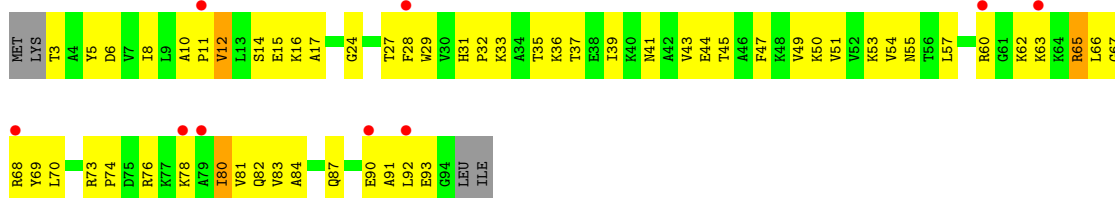
- Molecule 41: 50S ribosomal protein L22



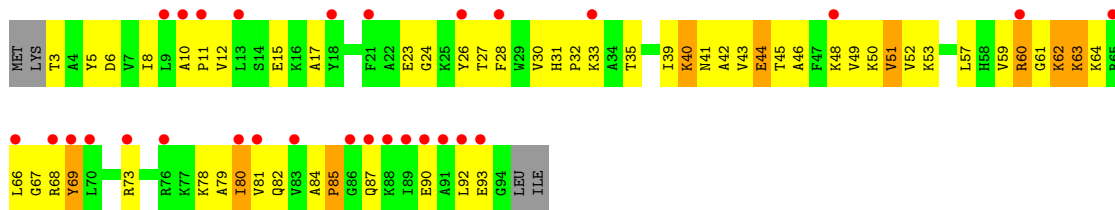
- Molecule 41: 50S ribosomal protein L22



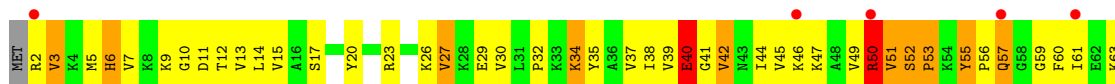
- Molecule 42: 50S ribosomal protein L23

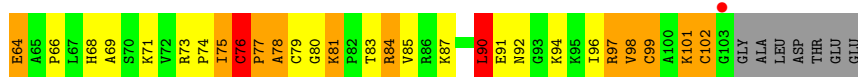


- Molecule 42: 50S ribosomal protein L23

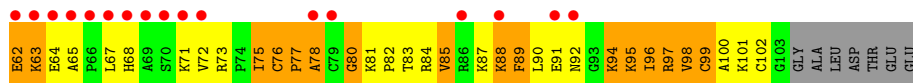
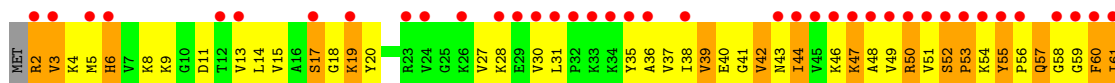
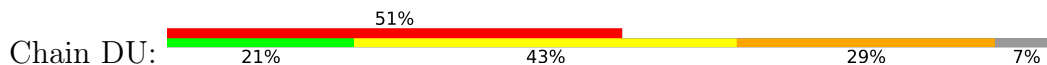


- Molecule 43: 50S ribosomal protein L24

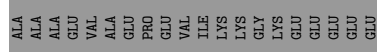
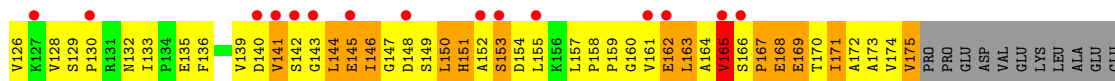
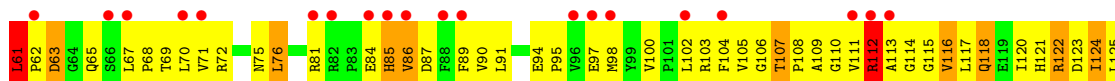
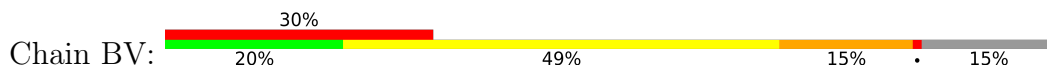




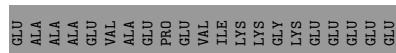
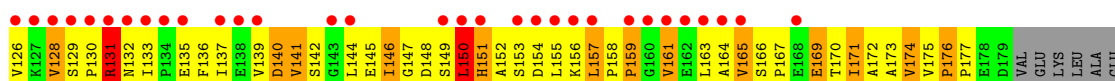
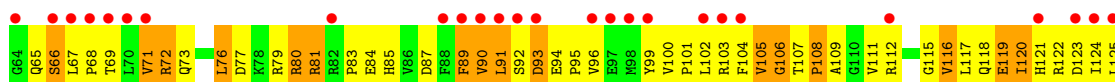
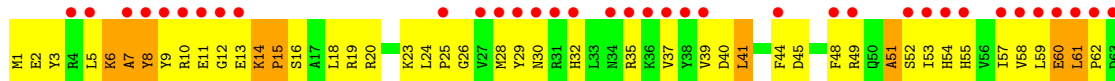
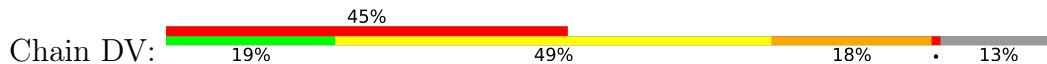
- Molecule 43: 50S ribosomal protein L24



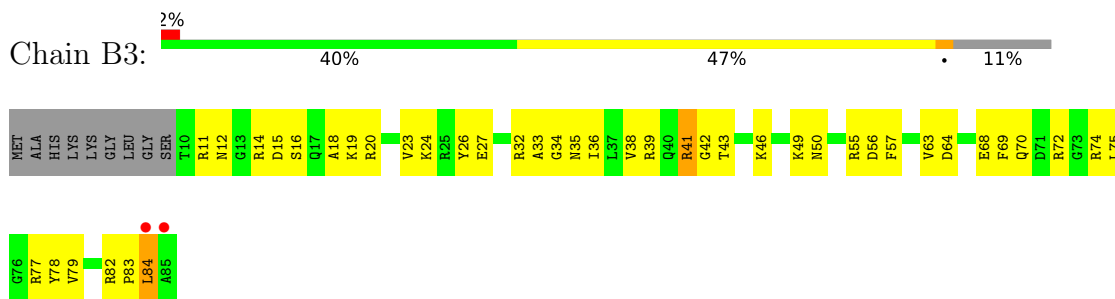
- Molecule 44: 50S ribosomal protein L25



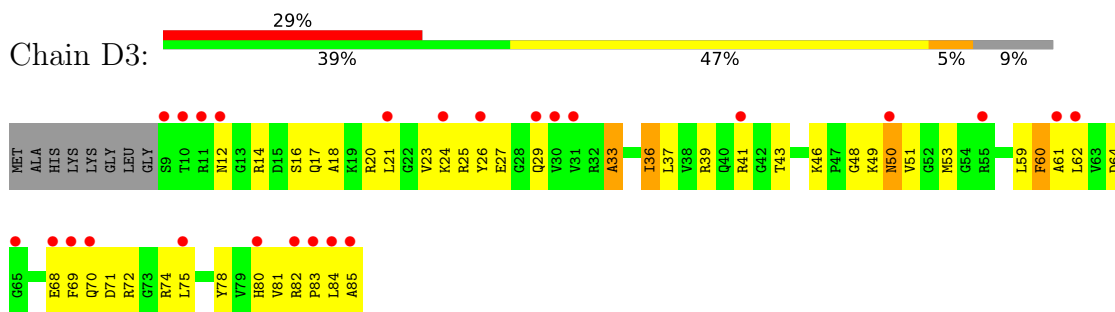
- Molecule 44: 50S ribosomal protein L25



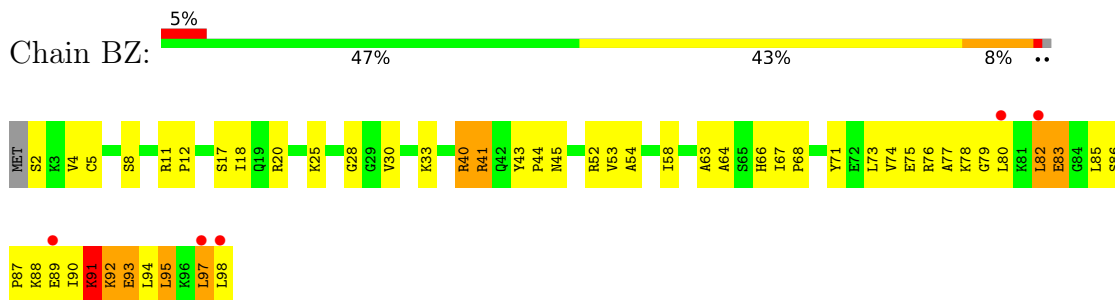
- Molecule 45: 50S ribosomal protein L27



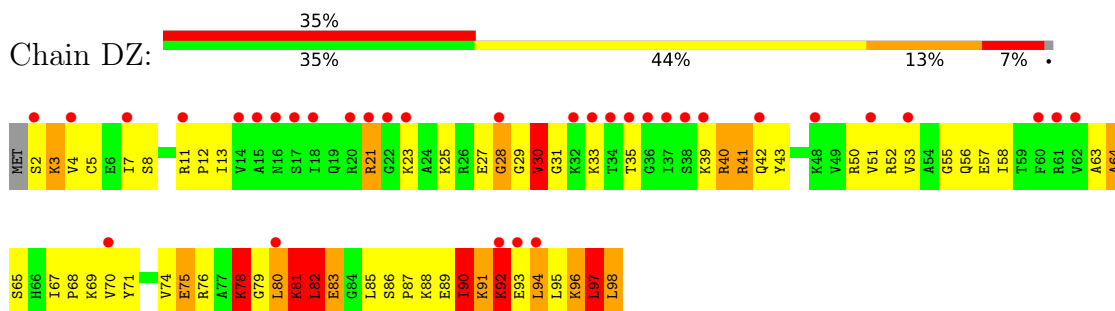
- Molecule 45: 50S ribosomal protein L27



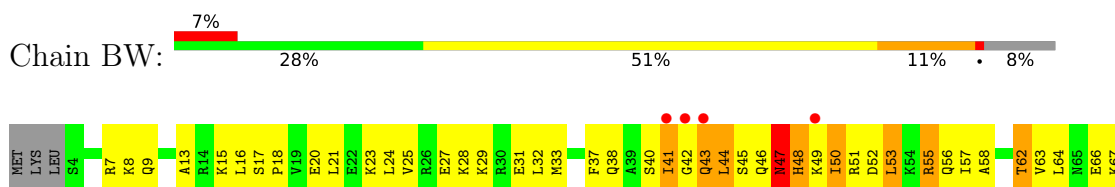
- Molecule 46: 50S ribosomal protein L28

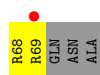


- Molecule 46: 50S ribosomal protein L28



- Molecule 47: 50S ribosomal protein L29

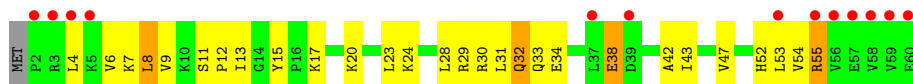




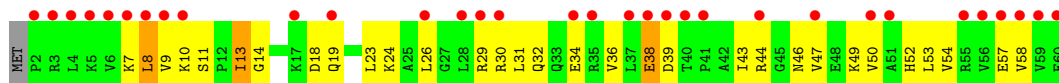
- Molecule 47: 50S ribosomal protein L29



- Molecule 48: 50S ribosomal protein L30



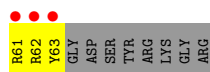
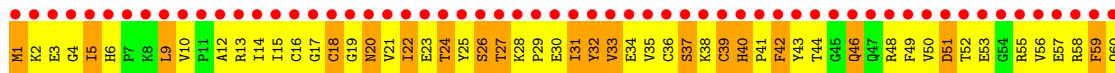
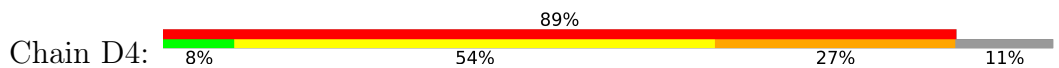
- Molecule 48: 50S ribosomal protein L30



- Molecule 49: 50S ribosomal protein L31

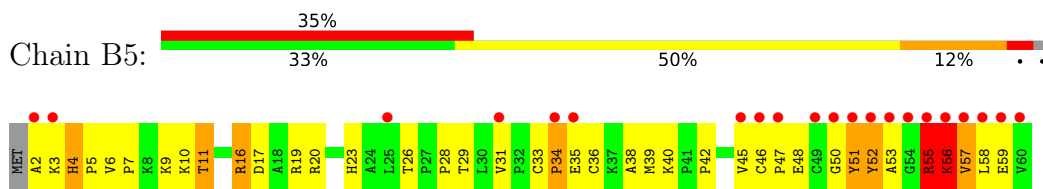


- Molecule 49: 50S ribosomal protein L31

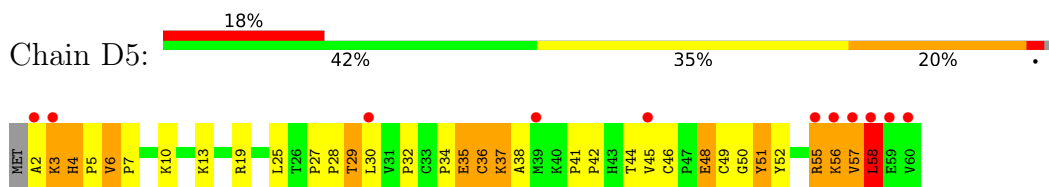




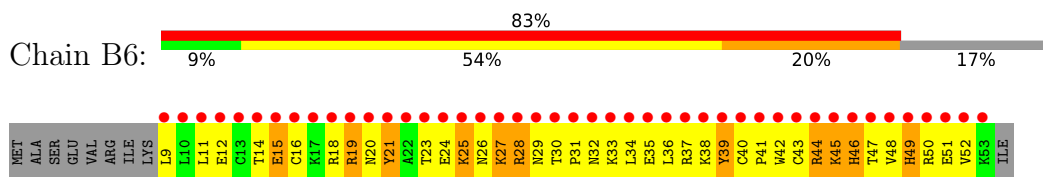
- Molecule 50: 50S ribosomal protein L32



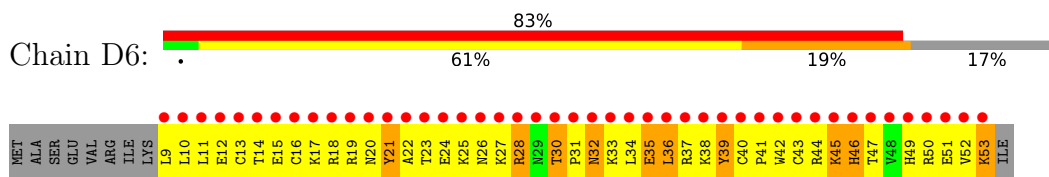
- Molecule 50: 50S ribosomal protein L32



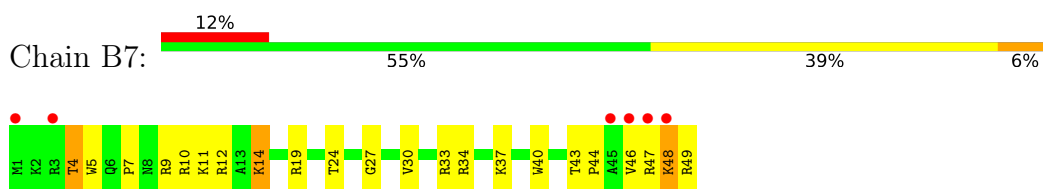
- Molecule 51: 50S ribosomal protein L33



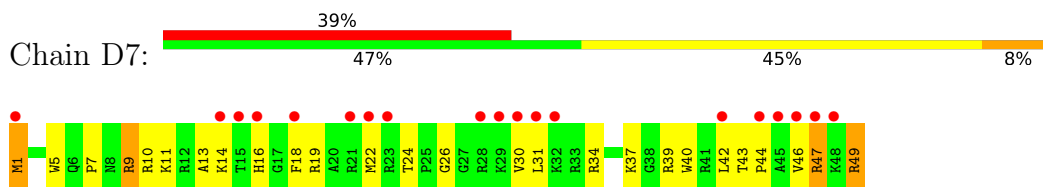
- Molecule 51: 50S ribosomal protein L33



- Molecule 52: 50S ribosomal protein L34

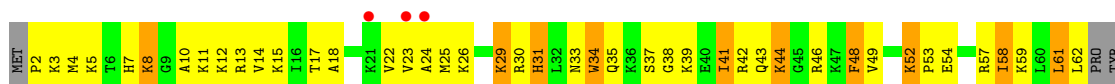


- Molecule 52: 50S ribosomal protein L34



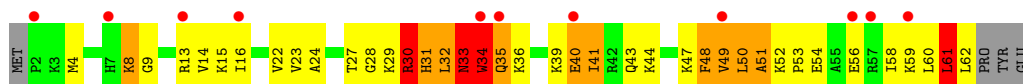
- Molecule 53: 50S ribosomal protein L35





GLU

- Molecule 53: 50S ribosomal protein L35



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	209.27Å 448.54Å 615.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	173.07 – 3.30 224.27 – 3.30	Depositor EDS
% Data completeness (in resolution range)	100.0 (173.07-3.30) 93.5 (224.27-3.30)	Depositor EDS
$R_{merge}$	0.42	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.42 (at 3.33Å)	Xtrriage
Refinement program	PHENIX dev_987	Depositor
R, $R_{free}$	0.202 , 0.254 0.197 , 0.255	Depositor DCC
$R_{free}$ test set	2000 reflections (0.23%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	101.3	Xtrriage
Anisotropy	0.267	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.24 , 83.2	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.45$ , $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	292440	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	135.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.59% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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: TAC, 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	0.31	2/36234 (0.0%)	0.62	7/56554 (0.0%)
1	CA	0.30	0/36237	0.60	4/56558 (0.0%)
2	AE	0.28	0/1959	0.47	0/2642
2	CE	0.25	0/1959	0.43	0/2642
3	AF	0.25	0/1629	0.41	0/2195
3	CF	0.26	0/1636	0.42	0/2205
4	AG	0.40	2/1733 (0.1%)	0.49	0/2318
4	CG	0.36	1/1733 (0.1%)	0.50	1/2318 (0.0%)
5	AH	0.29	0/1171	0.46	0/1576
5	CH	0.28	0/1171	0.47	0/1576
6	AI	0.28	0/856	0.43	0/1154
6	CI	0.27	0/856	0.43	0/1154
7	AJ	0.28	0/1276	0.42	0/1709
7	CJ	0.32	0/1276	0.45	0/1709
8	AK	0.28	0/1136	0.46	0/1527
8	CK	0.68	4/1136 (0.4%)	0.57	1/1527 (0.1%)
9	AL	0.39	1/1029 (0.1%)	0.49	0/1379
9	CL	0.31	0/1029	0.46	0/1379
10	AM	0.25	0/814	0.44	0/1095
10	CM	0.28	0/814	0.47	0/1095
11	AN	0.27	0/900	0.46	0/1213
11	CN	0.25	0/900	0.43	0/1213
12	AO	0.29	0/991	0.47	0/1327
12	CO	0.31	0/991	0.47	0/1327
13	AP	0.30	0/938	0.47	0/1258
13	CP	0.26	0/943	0.44	0/1265
14	AQ	0.31	0/501	0.45	0/664
14	CQ	0.31	0/501	0.54	1/664 (0.2%)
15	AR	0.27	0/745	0.42	0/992
15	CR	0.26	0/745	0.38	0/992
16	AS	0.32	0/721	0.47	0/970
16	CS	0.27	0/721	0.44	0/970

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AT	0.30	0/847	0.44	0/1131
17	CT	0.33	0/847	0.53	1/1131 (0.1%)
18	AU	0.26	0/596	0.44	0/790
18	CU	0.28	0/596	0.45	0/790
19	AV	0.34	0/680	0.58	0/915
19	CV	0.35	0/638	0.58	0/860
20	AW	0.41	0/765	0.54	0/1007
20	CW	0.27	0/765	0.44	0/1007
21	AX	0.28	0/221	0.43	0/288
21	CX	0.41	0/221	0.61	0/288
22	AC	0.47	2/1832 (0.1%)	0.82	5/2855 (0.2%)
22	CC	0.45	2/1832 (0.1%)	0.80	5/2855 (0.2%)
23	A1	0.33	0/94	0.62	0/144
23	C1	0.40	0/94	0.67	0/144
24	BA	0.43	1/70233 (0.0%)	0.77	36/109643 (0.0%)
24	DA	0.39	4/70167 (0.0%)	0.73	38/109541 (0.0%)
25	BB	0.37	0/2928	0.73	1/4568 (0.0%)
25	DB	0.34	0/2928	0.62	0/4568
26	BD	0.39	0/2165	0.57	0/2919
26	DD	0.59	5/2165 (0.2%)	0.55	0/2919
27	BE	0.32	0/1601	0.52	0/2160
27	DE	0.32	0/1601	0.55	0/2160
28	BF	0.32	0/1620	0.49	0/2194
28	DF	0.29	0/1662	0.49	0/2249
29	BG	0.30	0/1499	0.48	0/2016
29	DG	0.27	0/1499	0.46	0/2016
30	BH	0.38	0/1332	0.63	2/1802 (0.1%)
30	DH	0.25	0/1332	0.52	2/1802 (0.1%)
31	BK	0.28	0/1151	0.47	0/1558
31	DK	0.27	0/1151	0.48	0/1558
32	BM	0.28	0/1131	0.50	0/1525
32	DM	0.28	0/1131	0.46	0/1525
33	BN	0.30	0/943	0.48	0/1269
33	DN	0.30	0/943	0.47	0/1269
34	BO	0.39	0/1162	0.64	0/1544
34	DO	0.38	0/1162	0.57	0/1544
35	BP	0.35	0/1143	0.53	0/1527
35	DP	0.41	2/1143 (0.2%)	0.82	3/1527 (0.2%)
36	B0	0.35	0/982	0.53	1/1312 (0.1%)
36	D0	0.30	0/974	0.50	0/1302
37	BQ	0.32	0/892	0.54	0/1187
37	DQ	0.39	0/892	0.51	0/1187
38	BR	0.31	0/1155	0.47	0/1542

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
38	DR	0.34	0/1155	0.51	0/1542
39	B1	0.36	0/982	0.52	0/1306
39	D1	0.31	0/982	0.46	0/1306
40	B2	0.32	0/790	0.52	0/1057
40	D2	0.35	0/790	0.53	0/1057
41	BS	0.31	0/911	0.50	0/1220
41	DS	0.30	0/911	0.50	0/1220
42	BT	0.42	0/739	0.52	0/993
42	DT	0.36	0/739	0.50	0/993
43	BU	0.37	0/798	0.51	0/1064
43	DU	0.33	0/798	0.50	0/1064
44	BV	0.32	0/1427	0.50	0/1935
44	DV	0.27	0/1460	0.45	0/1982
45	B3	0.33	0/615	0.50	0/819
45	D3	0.32	0/621	0.48	0/827
46	BZ	0.37	0/770	0.56	0/1022
46	DZ	0.33	0/770	0.55	0/1022
47	BW	0.39	0/560	0.55	0/741
47	DW	0.29	0/583	0.48	0/771
48	BX	0.31	0/474	0.48	0/635
48	DX	0.26	0/474	0.45	0/635
49	B4	0.81	3/545 (0.6%)	0.65	2/733 (0.3%)
49	D4	0.44	1/527 (0.2%)	0.55	0/709
50	B5	0.33	0/473	0.54	0/639
50	D5	0.29	0/473	0.47	0/639
51	B6	0.44	0/396	0.70	2/529 (0.4%)
51	D6	0.44	0/396	0.62	0/529
52	B7	0.43	0/438	0.68	0/575
52	D7	0.31	0/438	0.53	0/575
53	B8	0.40	0/494	0.58	0/649
53	D8	0.49	0/494	0.84	3/649 (0.5%)
All	All	0.37	30/316019 (0.0%)	0.66	115/472742 (0.0%)

The worst 5 of 30 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	DA	2377	A	N9-C4	20.50	1.50	1.37
26	DD	104	TYR	CD1-CE1	13.75	1.59	1.39
8	CK	94	TYR	CD2-CE2	-13.18	1.19	1.39
49	B4	16	CYS	CB-SG	-12.84	1.60	1.82
26	DD	104	TYR	CD2-CE2	12.77	1.58	1.39

The worst 5 of 115 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	DA	2377	A	C2-N3-C4	28.76	124.98	110.60
24	BA	2751	G	N1-C6-O6	20.94	132.47	119.90
24	DA	2377	A	C8-N9-C4	-20.26	97.69	105.80
35	DP	6	ARG	NE-CZ-NH1	19.44	130.02	120.30
22	CC	17(A)	C	N3-C4-C5	-18.15	114.64	121.90

There are no chirality outliers.

There are no planarity outliers.

## 5.2 Too-close contacts [i](#)

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	32369	0	16335	1780	1
1	CA	32372	0	16338	2038	3
2	AE	1924	0	1975	321	0
2	CE	1924	0	1975	349	0
3	AF	1605	0	1668	210	0
3	CF	1612	0	1677	235	0
4	AG	1703	0	1764	273	0
4	CG	1703	0	1763	334	0
5	AH	1155	0	1213	125	0
5	CH	1155	0	1212	196	0
6	AI	843	0	857	100	0
6	CI	843	0	857	107	0
7	AJ	1257	0	1296	153	0
7	CJ	1257	0	1296	176	0
8	AK	1116	0	1177	120	0
8	CK	1116	0	1176	177	0
9	AL	1010	0	1037	267	0
9	CL	1010	0	1037	291	0
10	AM	801	0	849	149	0
10	CM	801	0	849	238	1
11	AN	885	0	904	79	0
11	CN	885	0	904	87	0
12	AO	975	0	1062	108	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
12	CO	975	0	1062	91	0
13	AP	928	0	987	157	0
13	CP	933	0	992	195	0
14	AQ	492	0	529	74	0
14	CQ	492	0	530	133	0
15	AR	734	0	771	54	0
15	CR	734	0	771	76	0
16	AS	705	0	725	116	0
16	CS	705	0	725	94	0
17	AT	834	0	904	96	0
17	CT	834	0	904	88	0
18	AU	591	0	662	60	0
18	CU	591	0	662	69	0
19	AV	665	0	686	181	0
19	CV	624	0	636	250	0
20	AW	763	0	861	140	0
20	CW	763	0	861	87	0
21	AX	217	0	234	26	0
21	CX	217	0	234	60	0
22	AC	1640	0	836	47	0
22	CC	1640	0	836	67	0
23	A1	85	0	43	1	0
23	C1	85	0	43	5	0
24	BA	62707	0	31611	2736	0
24	DA	62647	0	31583	2861	2
25	BB	2617	0	1328	127	0
25	DB	2617	0	1328	167	0
26	BD	2115	0	2195	286	0
26	DD	2115	0	2192	237	0
27	BE	1568	0	1634	180	0
27	DE	1568	0	1634	297	0
28	BF	1585	0	1632	147	0
28	DF	1627	0	1680	173	0
29	BG	1474	0	1535	213	0
29	DG	1474	0	1535	220	0
30	BH	1307	0	1382	220	0
30	DH	1307	0	1382	277	0
31	BK	1136	0	1223	174	1
31	DK	1136	0	1223	158	0
32	BM	1104	0	1180	105	0
32	DM	1104	0	1180	132	0
33	BN	933	0	996	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	DN	933	0	996	84	0
34	BO	1145	0	1228	187	0
34	DO	1145	0	1228	239	0
35	BP	1122	0	1179	127	0
35	DP	1122	0	1178	151	0
36	B0	968	0	1033	102	0
36	D0	960	0	1021	95	0
37	BQ	882	0	943	149	0
37	DQ	882	0	943	207	0
38	BR	1141	0	1202	135	0
38	DR	1141	0	1202	123	0
39	B1	964	0	1022	114	0
39	D1	964	0	1021	140	0
40	B2	779	0	852	103	0
40	D2	779	0	851	175	0
41	BS	900	0	964	66	0
41	DS	900	0	964	75	0
42	BT	725	0	778	72	0
42	DT	725	0	778	86	0
43	BU	785	0	878	136	0
43	DU	785	0	878	153	0
44	BV	1397	0	1430	209	0
44	DV	1428	0	1454	255	0
45	B3	607	0	628	43	0
45	D3	613	0	633	59	0
46	BZ	763	0	848	91	0
46	DZ	763	0	848	93	0
47	BW	558	0	610	62	0
47	DW	581	0	629	71	0
48	BX	469	0	518	31	0
48	DX	469	0	518	39	0
49	B4	533	0	522	132	0
49	D4	515	0	510	157	0
50	B5	459	0	480	67	0
50	D5	459	0	476	46	0
51	B6	389	0	404	142	0
51	D6	389	0	404	166	0
52	B7	430	0	480	55	0
52	D7	430	0	479	73	0
53	B8	488	0	560	110	0
53	D8	488	0	559	138	0
54	A1	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	AA	232	0	0	0	0
54	AC	9	0	0	0	0
54	AG	2	0	0	0	0
54	AH	2	0	0	0	0
54	AJ	1	0	0	0	0
54	AQ	2	0	0	0	0
54	AR	1	0	0	0	0
54	AS	1	0	0	0	0
54	B1	2	0	0	0	0
54	B2	1	0	0	0	0
54	B3	2	0	0	0	0
54	B5	2	0	0	0	0
54	B6	1	0	0	0	0
54	B7	3	0	0	0	0
54	B8	1	0	0	0	0
54	BA	627	0	0	0	0
54	BB	17	0	0	0	0
54	BE	5	0	0	0	0
54	BF	2	0	0	0	0
54	BO	3	0	0	0	0
54	BP	1	0	0	0	0
54	BU	2	0	0	0	0
54	BZ	1	0	0	0	0
54	CA	204	0	0	0	0
54	CC	8	0	0	0	0
54	CG	2	0	0	0	0
54	CH	1	0	0	0	0
54	CS	1	0	0	0	0
54	D1	1	0	0	0	0
54	D5	1	0	0	0	0
54	DA	525	0	0	0	0
54	DB	14	0	0	0	0
54	DD	1	0	0	0	0
54	DE	3	0	0	0	0
54	DP	1	0	0	0	0
54	DR	1	0	0	0	0
54	DU	1	0	0	0	0
54	DZ	2	0	0	0	0
55	AA	32	1	21	4	0
55	CA	32	0	22	3	0
56	AG	1	0	0	0	0
56	AQ	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	CG	1	0	0	2	0
56	CQ	1	0	0	0	0
All	All	292439	1	197340	20528	4

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 43.

The worst 5 of 20528 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)
24:DA:1600:C:C2'	52:D7:49:ARG:HE	0.98	1.56
4:CG:31:CYS:SG	4:CG:33:MET:HE2	1.43	1.53
1:CA:598:U:O3'	8:CK:94:TYR:CE2	1.65	1.48
19:CV:70:LYS:CE	19:CV:73:GLU:HG3	1.44	1.48
7:CJ:78:ARG:NH1	7:CJ:85:TYR:HD1	1.15	1.43

All (4) 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)
31:BK:89:TYR:O	1:CA:357:G:O2'[4_555]	2.01	0.19
1:CA:86:U:O2'	24:DA:276:A:OP2[3_545]	2.09	0.11
1:AA:1175:G:O2'	10:CM:80:LYS:NZ[4_555]	2.18	0.02
1:CA:84:U:O2'	24:DA:273:G:OP1[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%)	162 (69%)	47 (20%)	26 (11%)	<b>0</b> <b>2</b>
2	CE	235/256 (92%)	166 (71%)	44 (19%)	25 (11%)	<b>0</b> <b>3</b>

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	AF	203/239 (85%)	150 (74%)	36 (18%)	17 (8%)	1	5
3	CF	204/239 (85%)	138 (68%)	51 (25%)	15 (7%)	1	7
4	AG	206/208 (99%)	157 (76%)	35 (17%)	14 (7%)	1	8
4	CG	206/208 (99%)	140 (68%)	44 (21%)	22 (11%)	0	3
5	AH	149/162 (92%)	127 (85%)	17 (11%)	5 (3%)	3	22
5	CH	149/162 (92%)	112 (75%)	31 (21%)	6 (4%)	3	18
6	AI	99/101 (98%)	81 (82%)	14 (14%)	4 (4%)	3	18
6	CI	99/101 (98%)	82 (83%)	11 (11%)	6 (6%)	1	10
7	AJ	153/156 (98%)	126 (82%)	17 (11%)	10 (6%)	1	9
7	CJ	153/156 (98%)	112 (73%)	33 (22%)	8 (5%)	2	13
8	AK	136/138 (99%)	103 (76%)	27 (20%)	6 (4%)	2	16
8	CK	136/138 (99%)	114 (84%)	15 (11%)	7 (5%)	2	13
9	AL	125/128 (98%)	93 (74%)	26 (21%)	6 (5%)	2	14
9	CL	125/128 (98%)	93 (74%)	21 (17%)	11 (9%)	1	5
10	AM	97/105 (92%)	75 (77%)	17 (18%)	5 (5%)	2	13
10	CM	97/105 (92%)	69 (71%)	23 (24%)	5 (5%)	2	13
11	AN	117/129 (91%)	88 (75%)	20 (17%)	9 (8%)	1	6
11	CN	117/129 (91%)	94 (80%)	17 (14%)	6 (5%)	2	13
12	AO	123/128 (96%)	96 (78%)	17 (14%)	10 (8%)	1	6
12	CO	123/128 (96%)	91 (74%)	23 (19%)	9 (7%)	1	7
13	AP	114/126 (90%)	87 (76%)	15 (13%)	12 (10%)	0	3
13	CP	115/126 (91%)	82 (71%)	19 (16%)	14 (12%)	0	1
14	AQ	58/61 (95%)	43 (74%)	11 (19%)	4 (7%)	1	8
14	CQ	58/61 (95%)	40 (69%)	12 (21%)	6 (10%)	0	3
15	AR	86/89 (97%)	71 (83%)	9 (10%)	6 (7%)	1	7
15	CR	86/89 (97%)	72 (84%)	13 (15%)	1 (1%)	13	42
16	AS	82/88 (93%)	61 (74%)	18 (22%)	3 (4%)	3	20
16	CS	82/88 (93%)	59 (72%)	17 (21%)	6 (7%)	1	7
17	AT	98/105 (93%)	78 (80%)	16 (16%)	4 (4%)	3	17
17	CT	98/105 (93%)	76 (78%)	15 (15%)	7 (7%)	1	7
18	AU	70/88 (80%)	58 (83%)	7 (10%)	5 (7%)	1	7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	CU	70/88 (80%)	53 (76%)	13 (19%)	4 (6%)	1	11
19	AV	81/93 (87%)	53 (65%)	19 (24%)	9 (11%)	0	2
19	CV	76/93 (82%)	48 (63%)	19 (25%)	9 (12%)	0	2
20	AW	97/106 (92%)	67 (69%)	17 (18%)	13 (13%)	0	1
20	CW	97/106 (92%)	64 (66%)	22 (23%)	11 (11%)	0	2
21	AX	23/27 (85%)	17 (74%)	4 (17%)	2 (9%)	1	5
21	CX	23/27 (85%)	14 (61%)	5 (22%)	4 (17%)	0	1
26	BD	270/276 (98%)	227 (84%)	31 (12%)	12 (4%)	2	16
26	DD	270/276 (98%)	223 (83%)	35 (13%)	12 (4%)	2	16
27	BE	203/206 (98%)	151 (74%)	35 (17%)	17 (8%)	1	5
27	DE	203/206 (98%)	133 (66%)	40 (20%)	30 (15%)	0	1
28	BF	200/210 (95%)	171 (86%)	21 (10%)	8 (4%)	3	18
28	DF	206/210 (98%)	155 (75%)	33 (16%)	18 (9%)	1	5
29	BG	179/182 (98%)	132 (74%)	32 (18%)	15 (8%)	1	5
29	DG	179/182 (98%)	128 (72%)	35 (20%)	16 (9%)	1	4
30	BH	168/180 (93%)	107 (64%)	30 (18%)	31 (18%)	0	1
30	DH	168/180 (93%)	103 (61%)	30 (18%)	35 (21%)	0	0
31	BK	144/148 (97%)	102 (71%)	28 (19%)	14 (10%)	0	3
31	DK	144/148 (97%)	98 (68%)	31 (22%)	15 (10%)	0	3
32	BM	136/140 (97%)	101 (74%)	24 (18%)	11 (8%)	1	6
32	DM	136/140 (97%)	103 (76%)	22 (16%)	11 (8%)	1	6
33	BN	120/122 (98%)	106 (88%)	12 (10%)	2 (2%)	9	35
33	DN	120/122 (98%)	107 (89%)	10 (8%)	3 (2%)	5	27
34	BO	148/150 (99%)	99 (67%)	27 (18%)	22 (15%)	0	1
34	DO	148/150 (99%)	85 (57%)	31 (21%)	32 (22%)	0	0
35	BP	139/141 (99%)	104 (75%)	21 (15%)	14 (10%)	0	3
35	DP	139/141 (99%)	100 (72%)	24 (17%)	15 (11%)	0	2
36	B0	116/118 (98%)	91 (78%)	14 (12%)	11 (10%)	0	4
36	D0	115/118 (98%)	85 (74%)	21 (18%)	9 (8%)	1	6
37	BQ	109/112 (97%)	82 (75%)	15 (14%)	12 (11%)	0	2
37	DQ	109/112 (97%)	74 (68%)	22 (20%)	13 (12%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
38	BR	135/146 (92%)	101 (75%)	25 (18%)	9 (7%)	1	8
38	DR	135/146 (92%)	105 (78%)	19 (14%)	11 (8%)	1	6
39	B1	115/118 (98%)	92 (80%)	17 (15%)	6 (5%)	2	13
39	D1	115/118 (98%)	89 (77%)	20 (17%)	6 (5%)	2	13
40	B2	99/101 (98%)	74 (75%)	17 (17%)	8 (8%)	1	6
40	D2	99/101 (98%)	68 (69%)	16 (16%)	15 (15%)	0	1
41	BS	111/113 (98%)	91 (82%)	14 (13%)	6 (5%)	2	12
41	DS	111/113 (98%)	86 (78%)	17 (15%)	8 (7%)	1	7
42	BT	90/96 (94%)	75 (83%)	13 (14%)	2 (2%)	6	30
42	DT	90/96 (94%)	67 (74%)	13 (14%)	10 (11%)	0	2
43	BU	100/110 (91%)	64 (64%)	18 (18%)	18 (18%)	0	1
43	DU	100/110 (91%)	57 (57%)	18 (18%)	25 (25%)	0	0
44	BV	173/206 (84%)	105 (61%)	47 (27%)	21 (12%)	0	2
44	DV	177/206 (86%)	110 (62%)	37 (21%)	30 (17%)	0	1
45	B3	74/85 (87%)	57 (77%)	15 (20%)	2 (3%)	5	26
45	D3	75/85 (88%)	63 (84%)	9 (12%)	3 (4%)	3	18
46	BZ	95/98 (97%)	72 (76%)	17 (18%)	6 (6%)	1	9
46	DZ	95/98 (97%)	69 (73%)	12 (13%)	14 (15%)	0	1
47	BW	64/72 (89%)	54 (84%)	5 (8%)	5 (8%)	1	6
47	DW	67/72 (93%)	51 (76%)	9 (13%)	7 (10%)	0	3
48	BX	57/60 (95%)	51 (90%)	5 (9%)	1 (2%)	8	35
48	DX	57/60 (95%)	46 (81%)	9 (16%)	2 (4%)	3	21
49	B4	64/71 (90%)	33 (52%)	21 (33%)	10 (16%)	0	1
49	D4	61/71 (86%)	22 (36%)	23 (38%)	16 (26%)	0	0
50	B5	57/60 (95%)	42 (74%)	10 (18%)	5 (9%)	1	5
50	D5	57/60 (95%)	41 (72%)	6 (10%)	10 (18%)	0	1
51	B6	43/54 (80%)	24 (56%)	12 (28%)	7 (16%)	0	1
51	D6	43/54 (80%)	24 (56%)	13 (30%)	6 (14%)	0	1
52	B7	47/49 (96%)	42 (89%)	4 (8%)	1 (2%)	7	31
52	D7	47/49 (96%)	42 (89%)	5 (11%)	0	100	100
53	B8	59/65 (91%)	44 (75%)	10 (17%)	5 (8%)	1	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	D8	59/65 (91%)	38 (64%)	8 (14%)	13 (22%)	0	0
All	All	11341/12044 (94%)	8378 (74%)	1945 (17%)	1018 (9%)	1	4

5 of 1018 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AE	135	GLN
2	AE	136	VAL
2	AE	194	PRO
2	AE	195	ASP
2	AE	214	ILE

### 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%)	182 (89%)	23 (11%)	6	23
2	CE	205/220 (93%)	176 (86%)	29 (14%)	3	16
3	AF	159/188 (85%)	147 (92%)	12 (8%)	13	39
3	CF	160/188 (85%)	146 (91%)	14 (9%)	10	33
4	AG	180/180 (100%)	166 (92%)	14 (8%)	12	38
4	CG	180/180 (100%)	161 (89%)	19 (11%)	6	25
5	AH	116/123 (94%)	105 (90%)	11 (10%)	8	29
5	CH	116/123 (94%)	104 (90%)	12 (10%)	7	26
6	AI	90/90 (100%)	85 (94%)	5 (6%)	21	52
6	CI	90/90 (100%)	81 (90%)	9 (10%)	7	27
7	AJ	126/127 (99%)	118 (94%)	8 (6%)	18	47
7	CJ	126/127 (99%)	116 (92%)	10 (8%)	12	37
8	AK	119/119 (100%)	108 (91%)	11 (9%)	9	31
8	CK	119/119 (100%)	108 (91%)	11 (9%)	9	31
9	AL	98/99 (99%)	86 (88%)	12 (12%)	5	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	CL	98/99 (99%)	79 (81%)	19 (19%)	1	5
10	AM	89/92 (97%)	82 (92%)	7 (8%)	12	37
10	CM	89/92 (97%)	82 (92%)	7 (8%)	12	37
11	AN	90/99 (91%)	86 (96%)	4 (4%)	28	59
11	CN	90/99 (91%)	85 (94%)	5 (6%)	21	52
12	AO	104/107 (97%)	97 (93%)	7 (7%)	16	45
12	CO	104/107 (97%)	97 (93%)	7 (7%)	16	45
13	AP	94/101 (93%)	89 (95%)	5 (5%)	22	53
13	CP	94/101 (93%)	78 (83%)	16 (17%)	2	9
14	AQ	49/50 (98%)	44 (90%)	5 (10%)	7	27
14	CQ	49/50 (98%)	45 (92%)	4 (8%)	11	36
15	AR	79/80 (99%)	73 (92%)	6 (8%)	13	39
15	CR	79/80 (99%)	76 (96%)	3 (4%)	33	62
16	AS	72/74 (97%)	62 (86%)	10 (14%)	3	16
16	CS	72/74 (97%)	68 (94%)	4 (6%)	21	52
17	AT	95/97 (98%)	90 (95%)	5 (5%)	22	53
17	CT	95/97 (98%)	92 (97%)	3 (3%)	39	67
18	AU	63/77 (82%)	60 (95%)	3 (5%)	25	56
18	CU	63/77 (82%)	59 (94%)	4 (6%)	18	47
19	AV	72/80 (90%)	63 (88%)	9 (12%)	4	19
19	CV	67/80 (84%)	56 (84%)	11 (16%)	2	10
20	AW	76/82 (93%)	70 (92%)	6 (8%)	12	37
20	CW	76/82 (93%)	69 (91%)	7 (9%)	9	31
21	AX	20/22 (91%)	20 (100%)	0	100	100
21	CX	20/22 (91%)	18 (90%)	2 (10%)	7	27
26	BD	214/218 (98%)	192 (90%)	22 (10%)	7	26
26	DD	214/218 (98%)	197 (92%)	17 (8%)	12	37
27	BE	165/166 (99%)	149 (90%)	16 (10%)	8	29
27	DE	165/166 (99%)	150 (91%)	15 (9%)	9	31
28	BF	161/166 (97%)	150 (93%)	11 (7%)	16	44
28	DF	165/166 (99%)	156 (94%)	9 (6%)	21	52

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
29	BG	155/156 (99%)	145 (94%)	10 (6%)	17	46
29	DG	155/156 (99%)	141 (91%)	14 (9%)	9	32
30	BH	142/148 (96%)	119 (84%)	23 (16%)	2	10
30	DH	142/148 (96%)	128 (90%)	14 (10%)	8	28
31	BK	122/124 (98%)	110 (90%)	12 (10%)	8	29
31	DK	122/124 (98%)	109 (89%)	13 (11%)	6	25
32	BM	117/119 (98%)	113 (97%)	4 (3%)	37	65
32	DM	117/119 (98%)	109 (93%)	8 (7%)	16	44
33	BN	100/100 (100%)	95 (95%)	5 (5%)	24	55
33	DN	100/100 (100%)	95 (95%)	5 (5%)	24	55
34	BO	116/116 (100%)	101 (87%)	15 (13%)	4	18
34	DO	116/116 (100%)	102 (88%)	14 (12%)	5	20
35	BP	111/111 (100%)	102 (92%)	9 (8%)	11	36
35	DP	111/111 (100%)	102 (92%)	9 (8%)	11	36
36	B0	101/101 (100%)	94 (93%)	7 (7%)	15	44
36	D0	100/101 (99%)	95 (95%)	5 (5%)	24	55
37	BQ	87/88 (99%)	82 (94%)	5 (6%)	20	51
37	DQ	87/88 (99%)	78 (90%)	9 (10%)	7	26
38	BR	120/127 (94%)	111 (92%)	9 (8%)	13	39
38	DR	120/127 (94%)	107 (89%)	13 (11%)	6	24
39	B1	93/94 (99%)	87 (94%)	6 (6%)	17	46
39	D1	93/94 (99%)	88 (95%)	5 (5%)	22	53
40	B2	82/82 (100%)	75 (92%)	7 (8%)	10	35
40	D2	82/82 (100%)	71 (87%)	11 (13%)	4	16
41	BS	92/92 (100%)	82 (89%)	10 (11%)	6	24
41	DS	92/92 (100%)	82 (89%)	10 (11%)	6	24
42	BT	74/78 (95%)	69 (93%)	5 (7%)	16	44
42	DT	74/78 (95%)	69 (93%)	5 (7%)	16	44
43	BU	85/91 (93%)	70 (82%)	15 (18%)	2	8
43	DU	85/91 (93%)	73 (86%)	12 (14%)	3	16
44	BV	154/179 (86%)	135 (88%)	19 (12%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
44	DV	158/179 (88%)	144 (91%)	14 (9%)	9	32
45	B3	61/67 (91%)	58 (95%)	3 (5%)	25	56
45	D3	62/67 (92%)	57 (92%)	5 (8%)	11	36
46	BZ	82/83 (99%)	77 (94%)	5 (6%)	18	48
46	DZ	82/83 (99%)	65 (79%)	17 (21%)	1	4
47	BW	62/67 (92%)	55 (89%)	7 (11%)	6	22
47	DW	64/67 (96%)	62 (97%)	2 (3%)	40	67
48	BX	51/52 (98%)	47 (92%)	4 (8%)	12	38
48	DX	51/52 (98%)	48 (94%)	3 (6%)	19	49
49	B4	59/63 (94%)	51 (86%)	8 (14%)	3	16
49	D4	57/63 (90%)	51 (90%)	6 (10%)	7	25
50	B5	51/52 (98%)	44 (86%)	7 (14%)	3	16
50	D5	51/52 (98%)	44 (86%)	7 (14%)	3	16
51	B6	44/52 (85%)	40 (91%)	4 (9%)	9	31
51	D6	44/52 (85%)	38 (86%)	6 (14%)	3	16
52	B7	42/42 (100%)	38 (90%)	4 (10%)	8	29
52	D7	42/42 (100%)	36 (86%)	6 (14%)	3	15
53	B8	51/55 (93%)	43 (84%)	8 (16%)	2	12
53	D8	51/55 (93%)	45 (88%)	6 (12%)	5	21
All	All	9584/9992 (96%)	8705 (91%)	879 (9%)	9	31

5 of 879 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	CF	94	LEU
13	CP	64	TRP
53	D8	40	GLU
43	DU	55	TYR
4	CG	93	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 125 such sidechains are listed below:

Mol	Chain	Res	Type
2	CE	78	GLN

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Mol	Chain	Res	Type
40	D2	87	HIS
9	CL	89	ASN
40	D2	80	GLN
47	DW	9	GLN

### 5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1506/1506 (100%)	279 (18%)	29 (1%)
1	CA	1505/1506 (99%)	284 (18%)	32 (2%)
22	AC	76/77 (98%)	5 (6%)	1 (1%)
22	CC	77/77 (100%)	9 (11%)	2 (2%)
23	A1	3/4 (75%)	1 (33%)	0
23	C1	3/4 (75%)	0	0
24	BA	2911/2912 (99%)	552 (18%)	37 (1%)
24	DA	2908/2912 (99%)	571 (19%)	43 (1%)
25	BB	121/122 (99%)	21 (17%)	0
25	DB	121/122 (99%)	25 (20%)	0
All	All	9231/9242 (99%)	1747 (18%)	144 (1%)

5 of 1747 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	9	G
1	AA	32	A
1	AA	39	G
1	AA	47	C

5 of 144 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
24	DA	1022	G
24	DA	2893	G
24	DA	1460	A
24	DA	2344	U
24	BA	1508	A

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

There are no non-standard protein/DNA/RNA residues in this entry.

## 5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 1693 ligands modelled in this entry, 1691 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
55	TAC	CA	1805	54	33,35,35	1.49	5 (15%)	42,58,58	1.61	7 (16%)
55	TAC	AA	1833	54	33,35,35	1.53	5 (15%)	42,58,58	1.60	6 (14%)

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
55	TAC	CA	1805	54	-	8/8/74/74	0/4/4/4
55	TAC	AA	1833	54	-	4/8/74/74	0/4/4/4

The worst 5 of 10 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	AA	1833	TAC	C1A-C10	4.93	1.49	1.41
55	CA	1805	TAC	C1A-C10	4.61	1.48	1.41
55	AA	1833	TAC	C1A-C61	3.96	1.49	1.41
55	CA	1805	TAC	C1A-C61	3.72	1.48	1.41
55	CA	1805	TAC	C6-C61	-3.56	1.50	1.53

The worst 5 of 13 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	AA	1833	TAC	C41-C1C-C1	-5.06	105.24	111.05
55	CA	1805	TAC	C41-C1C-C1	-4.84	105.49	111.05
55	AA	1833	TAC	O12-C12-C1C	4.60	120.03	113.37
55	CA	1805	TAC	O12-C12-C1C	4.22	119.48	113.37
55	AA	1833	TAC	O12-C12-C1B	-4.04	118.37	123.90

There are no chirality outliers.

5 of 12 torsion outliers are listed below:

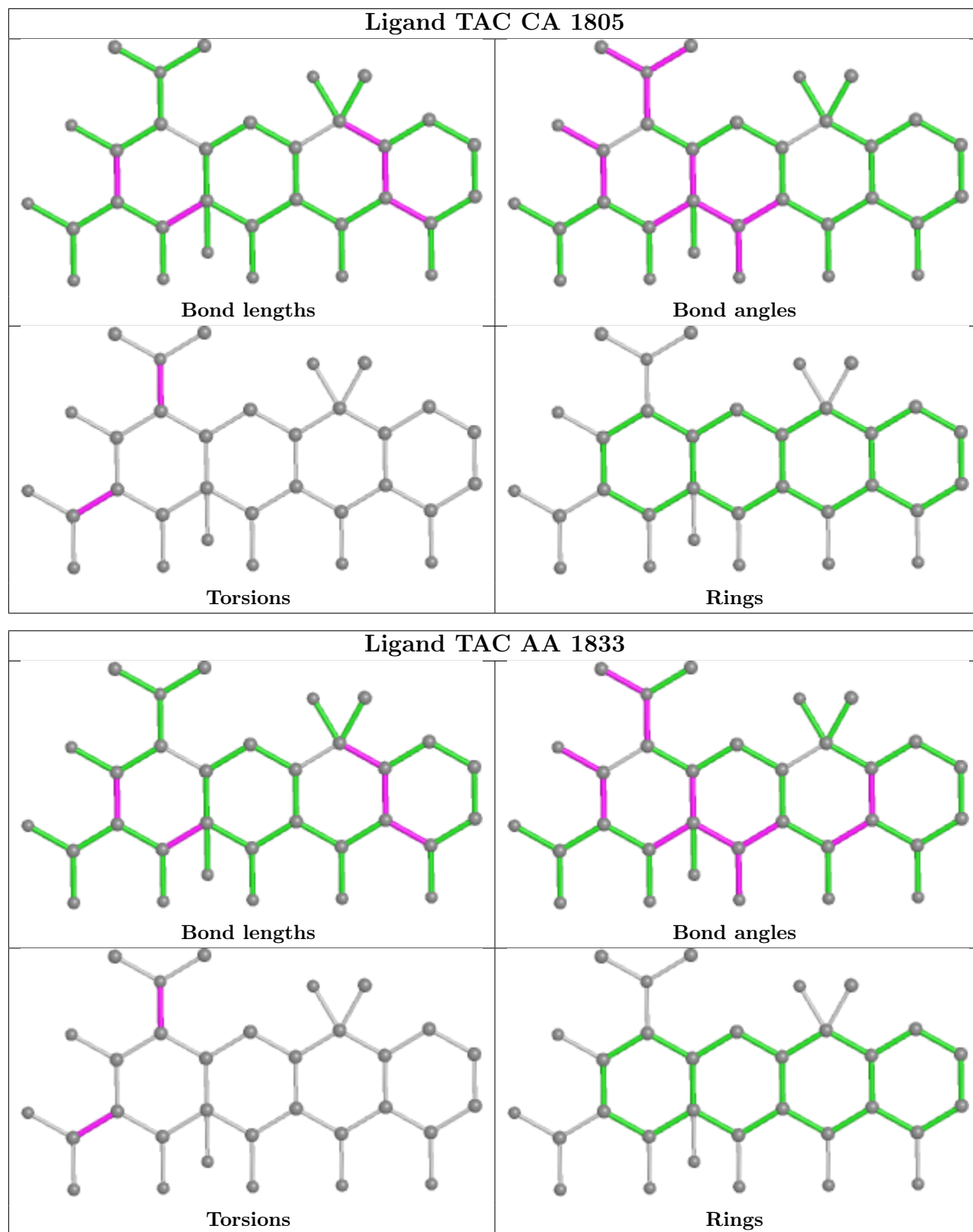
Mol	Chain	Res	Type	Atoms
55	CA	1805	TAC	C1-C2-C21-O21
55	CA	1805	TAC	C1-C2-C21-N21
55	CA	1805	TAC	C3-C2-C21-O21
55	CA	1805	TAC	C3-C2-C21-N21
55	CA	1805	TAC	C3-C4-N4-C42

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	CA	1805	TAC	3	0
55	AA	1833	TAC	4	0

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



## 5.7 Other polymers [\(i\)](#)

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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	AA	1506/1506 (100%)	-0.58	9 (0%) 89 90	89, 141, 216, 277	0
1	CA	1506/1506 (100%)	-0.67	8 (0%) 91 91	103, 152, 218, 275	0
2	AE	237/256 (92%)	1.01	59 (24%) 0 0	139, 172, 204, 216	0
2	CE	237/256 (92%)	1.81	97 (40%) 0 0	160, 191, 219, 228	0
3	AF	205/239 (85%)	2.59	123 (60%) 0 0	116, 151, 183, 201	0
3	CF	206/239 (86%)	1.43	67 (32%) 0 0	148, 179, 201, 211	0
4	AG	208/208 (100%)	1.43	68 (32%) 0 0	112, 149, 172, 183	0
4	CG	208/208 (100%)	0.41	20 (9%) 8 8	128, 153, 171, 180	0
5	AH	151/162 (93%)	2.15	73 (48%) 0 0	111, 139, 161, 195	0
5	CH	151/162 (93%)	0.67	22 (14%) 2 2	129, 154, 177, 196	0
6	AI	101/101 (100%)	2.63	58 (57%) 0 0	116, 141, 162, 167	0
6	CI	101/101 (100%)	1.68	39 (38%) 0 0	128, 149, 163, 178	0
7	AJ	155/156 (99%)	-0.05	12 (7%) 13 12	129, 151, 187, 211	0
7	CJ	155/156 (99%)	1.95	58 (37%) 0 0	146, 167, 195, 204	0
8	AK	138/138 (100%)	0.39	12 (8%) 10 10	118, 148, 162, 170	0
8	CK	138/138 (100%)	0.19	3 (2%) 62 60	131, 159, 174, 180	0
9	AL	127/128 (99%)	-0.74	0 100 100	119, 168, 186, 192	0
9	CL	127/128 (99%)	-0.29	2 (1%) 72 70	133, 185, 199, 208	0
10	AM	99/105 (94%)	0.72	23 (23%) 0 1	119, 170, 197, 210	0
10	CM	99/105 (94%)	0.07	10 (10%) 7 6	149, 191, 204, 209	0
11	AN	119/129 (92%)	2.04	47 (39%) 0 0	115, 137, 170, 198	0
11	CN	119/129 (92%)	2.01	57 (47%) 0 0	124, 149, 178, 196	0
12	AO	125/128 (97%)	1.58	43 (34%) 0 0	106, 128, 150, 192	0
12	CO	125/128 (97%)	0.23	3 (2%) 59 56	111, 134, 159, 205	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AP	116/126 (92%)	-0.71	0 100 100	103, 153, 174, 184	0
13	CP	117/126 (92%)	0.31	16 (13%) 3 2	143, 179, 196, 205	0
14	AQ	60/61 (98%)	-0.19	1 (1%) 70 68	123, 143, 159, 161	0
14	CQ	60/61 (98%)	-0.19	3 (5%) 28 27	148, 176, 188, 191	0
15	AR	88/89 (98%)	-0.06	1 (1%) 80 81	109, 136, 155, 162	0
15	CR	88/89 (98%)	0.88	15 (17%) 1 1	121, 151, 168, 172	0
16	AS	84/88 (95%)	-0.95	0 100 100	135, 156, 179, 198	0
16	CS	84/88 (95%)	-0.69	0 100 100	121, 143, 167, 203	0
17	AT	100/105 (95%)	-0.04	2 (2%) 65 64	123, 147, 162, 173	0
17	CT	100/105 (95%)	1.27	34 (34%) 0 0	122, 145, 159, 182	0
18	AU	72/88 (81%)	1.19	24 (33%) 0 0	118, 142, 168, 195	0
18	CU	72/88 (81%)	1.99	31 (43%) 0 0	134, 157, 181, 199	0
19	AV	83/93 (89%)	-0.33	0 100 100	133, 158, 180, 191	0
19	CV	78/93 (83%)	0.48	11 (14%) 2 2	169, 195, 210, 221	0
20	AW	99/106 (93%)	-0.44	1 (1%) 82 82	137, 159, 187, 196	0
20	CW	99/106 (93%)	-0.30	1 (1%) 82 82	112, 142, 177, 194	0
21	AX	25/27 (92%)	-0.75	0 100 100	120, 150, 170, 187	0
21	CX	25/27 (92%)	-0.98	0 100 100	144, 171, 192, 209	0
22	AC	77/77 (100%)	-0.37	0 100 100	102, 125, 153, 175	0
22	CC	77/77 (100%)	0.19	9 (11%) 4 4	106, 145, 175, 205	0
23	A1	4/4 (100%)	-0.39	0 100 100	106, 109, 114, 165	0
23	C1	4/4 (100%)	-0.26	0 100 100	127, 131, 143, 184	0
24	BA	2912/2912 (100%)	-0.18	77 (2%) 56 53	68, 102, 240, 278	0
24	DA	2909/2912 (99%)	-0.26	101 (3%) 44 42	79, 114, 258, 279	0
25	BB	122/122 (100%)	-0.57	1 (0%) 86 86	92, 122, 145, 211	0
25	DB	122/122 (100%)	-0.16	9 (7%) 14 14	115, 152, 178, 226	0
26	BD	272/276 (98%)	0.66	37 (13%) 3 2	69, 96, 117, 140	0
26	DD	272/276 (98%)	0.70	24 (8%) 10 10	72, 106, 130, 155	0
27	BE	205/206 (99%)	1.25	53 (25%) 0 0	73, 117, 163, 177	0
27	DE	205/206 (99%)	0.71	29 (14%) 2 2	79, 122, 168, 196	0
28	BF	202/210 (96%)	0.61	29 (14%) 2 2	74, 108, 149, 175	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
28	DF	208/210 (99%)	1.58	66 (31%) 0 0	82, 125, 187, 213	0
29	BG	181/182 (99%)	0.04	8 (4%) 34 33	105, 127, 167, 186	0
29	DG	181/182 (99%)	3.57	138 (76%) 0 0	136, 166, 194, 204	0
30	BH	170/180 (94%)	-0.12	5 (2%) 51 50	103, 135, 159, 175	0
30	DH	170/180 (94%)	1.65	59 (34%) 0 0	154, 222, 249, 262	0
31	BK	146/148 (98%)	-0.09	9 (6%) 20 20	103, 151, 170, 178	0
31	DK	146/148 (98%)	-0.20	8 (5%) 25 23	111, 159, 178, 185	0
32	BM	138/140 (98%)	0.54	11 (7%) 12 11	90, 115, 153, 183	0
32	DM	138/140 (98%)	0.91	24 (17%) 1 1	93, 129, 168, 189	0
33	BN	122/122 (100%)	0.06	3 (2%) 57 54	83, 111, 132, 139	0
33	DN	122/122 (100%)	0.77	14 (11%) 4 4	86, 116, 130, 140	0
34	BO	150/150 (100%)	1.08	42 (28%) 0 0	70, 113, 143, 207	0
34	DO	150/150 (100%)	1.51	46 (30%) 0 0	85, 129, 167, 206	0
35	BP	141/141 (100%)	0.34	9 (6%) 19 19	85, 107, 132, 163	0
35	DP	141/141 (100%)	0.93	24 (17%) 1 1	95, 126, 152, 177	0
36	B0	118/118 (100%)	0.96	19 (16%) 1 2	90, 110, 131, 148	0
36	D0	117/118 (99%)	0.20	7 (5%) 21 21	88, 111, 135, 146	0
37	BQ	111/112 (99%)	0.93	23 (20%) 1 1	90, 119, 148, 164	0
37	DQ	111/112 (99%)	0.98	23 (20%) 1 1	114, 146, 168, 190	0
38	BR	137/146 (93%)	0.48	18 (13%) 3 3	104, 125, 173, 202	0
38	DR	137/146 (93%)	0.61	14 (10%) 6 6	103, 121, 177, 212	0
39	B1	117/118 (99%)	0.04	4 (3%) 45 43	77, 106, 141, 168	0
39	D1	117/118 (99%)	0.76	16 (13%) 3 2	90, 122, 155, 178	0
40	B2	101/101 (100%)	1.23	31 (30%) 0 0	79, 122, 154, 181	0
40	D2	101/101 (100%)	2.78	62 (61%) 0 0	95, 149, 165, 181	0
41	BS	113/113 (100%)	1.54	32 (28%) 0 0	81, 102, 141, 191	0
41	DS	113/113 (100%)	1.18	22 (19%) 1 1	83, 107, 140, 194	0
42	BT	92/96 (95%)	0.73	9 (9%) 7 7	81, 98, 126, 145	0
42	DT	92/96 (95%)	1.32	29 (31%) 0 0	96, 117, 140, 159	0
43	BU	102/110 (92%)	0.32	6 (5%) 22 22	95, 123, 171, 190	0
43	DU	102/110 (92%)	2.70	56 (54%) 0 0	104, 142, 195, 212	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
44	BV	175/206 (84%)	1.84	61 (34%) 0 0	104, 142, 218, 229	0
44	DV	179/206 (86%)	2.09	93 (51%) 0 0	132, 174, 237, 251	0
45	B3	76/85 (89%)	0.21	2 (2%) 56 53	85, 101, 121, 163	0
45	D3	77/85 (90%)	1.90	25 (32%) 0 0	98, 117, 141, 175	0
46	BZ	97/98 (98%)	0.36	5 (5%) 27 25	83, 106, 149, 195	0
46	DZ	97/98 (98%)	1.54	34 (35%) 0 0	87, 116, 159, 191	0
47	BW	66/72 (91%)	0.63	5 (7%) 13 13	80, 108, 133, 171	0
47	DW	69/72 (95%)	1.29	16 (23%) 0 1	106, 138, 163, 196	0
48	BX	59/60 (98%)	1.29	13 (22%) 0 1	85, 106, 148, 160	0
48	DX	59/60 (98%)	2.22	32 (54%) 0 0	97, 126, 159, 194	0
49	B4	66/71 (92%)	0.19	3 (4%) 33 32	127, 176, 209, 219	0
49	D4	63/71 (88%)	7.92	63 (100%) 0 0	181, 212, 226, 235	0
50	B5	59/60 (98%)	2.43	21 (35%) 0 0	78, 115, 194, 210	0
50	D5	59/60 (98%)	1.34	11 (18%) 1 1	87, 114, 191, 218	0
51	B6	45/54 (83%)	8.93	45 (100%) 0 0	149, 184, 197, 201	0
51	D6	45/54 (83%)	12.81	45 (100%) 0 0	158, 195, 212, 215	0
52	B7	49/49 (100%)	0.50	6 (12%) 4 3	73, 83, 124, 154	0
52	D7	49/49 (100%)	2.03	19 (38%) 0 0	78, 91, 134, 156	0
53	B8	61/65 (93%)	0.23	3 (4%) 29 27	81, 96, 116, 145	0
53	D8	61/65 (93%)	1.28	11 (18%) 1 1	94, 109, 131, 161	0
All	All	20772/21286 (97%)	0.42	2772 (13%) 3 3	68, 133, 207, 279	0

The worst 5 of 2772 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
51	D6	13	CYS	29.8
51	D6	22	ALA	26.4
51	D6	52	VAL	23.5
51	D6	49	HIS	23.3
50	D5	59	GLU	23.2

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

There are no non-standard protein/DNA/RNA residues in this entry.

### 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

### 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
54	MG	CA	1644	1/1	-0.07	0.46	133,133,133,133	0
54	MG	CA	1738	1/1	-0.03	0.23	114,114,114,114	0
54	MG	AA	1726	1/1	-0.01	0.28	132,132,132,132	0
54	MG	BA	3395	1/1	0.00	0.56	105,105,105,105	0
54	MG	AC	102	1/1	0.04	0.30	123,123,123,123	0
54	MG	AA	1734	1/1	0.04	0.36	146,146,146,146	0
54	MG	DA	3296	1/1	0.04	0.34	114,114,114,114	0
54	MG	BA	3447	1/1	0.12	0.32	116,116,116,116	0
54	MG	BA	3339	1/1	0.12	0.31	115,115,115,115	0
54	MG	AA	1730	1/1	0.14	2.08	116,116,116,116	0
54	MG	BB	211	1/1	0.23	0.42	102,102,102,102	0
54	MG	CA	1650	1/1	0.24	0.80	151,151,151,151	0
54	MG	BA	3411	1/1	0.24	0.46	110,110,110,110	0
54	MG	DA	3041	1/1	0.24	0.26	142,142,142,142	0
54	MG	BA	3237	1/1	0.24	0.38	117,117,117,117	0
54	MG	CA	1605	1/1	0.27	0.36	131,131,131,131	0
54	MG	BA	3093	1/1	0.29	0.31	154,154,154,154	0
54	MG	BA	3429	1/1	0.30	0.54	129,129,129,129	0
54	MG	DB	207	1/1	0.30	0.16	114,114,114,114	0
54	MG	AA	1776	1/1	0.35	0.21	116,116,116,116	0
54	MG	DA	3038	1/1	0.36	0.27	122,122,122,122	0
54	MG	BA	3095	1/1	0.36	0.42	92,92,92,92	0
54	MG	BA	3536	1/1	0.37	0.40	96,96,96,96	0
54	MG	DA	3158	1/1	0.37	0.61	113,113,113,113	0
54	MG	DA	3081	1/1	0.38	0.39	116,116,116,116	0
54	MG	DA	3163	1/1	0.38	0.14	120,120,120,120	0
54	MG	BA	3551	1/1	0.39	0.34	105,105,105,105	0
54	MG	DA	3279	1/1	0.39	0.24	125,125,125,125	0
54	MG	CA	1793	1/1	0.40	0.37	115,115,115,115	0
54	MG	BA	3100	1/1	0.40	0.39	100,100,100,100	0
54	MG	AA	1683	1/1	0.40	0.41	116,116,116,116	0
54	MG	DA	3333	1/1	0.41	0.46	128,128,128,128	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BE	304	1/1	0.41	0.68	112,112,112,112	0
54	MG	DA	3074	1/1	0.42	0.43	109,109,109,109	0
54	MG	BA	3527	1/1	0.42	0.42	109,109,109,109	0
54	MG	AA	1686	1/1	0.42	0.20	120,120,120,120	0
54	MG	DA	3386	1/1	0.42	0.35	102,102,102,102	0
54	MG	CA	1631	1/1	0.42	0.26	134,134,134,134	0
54	MG	DB	206	1/1	0.43	0.37	142,142,142,142	0
54	MG	BA	3052	1/1	0.43	0.25	107,107,107,107	0
54	MG	DA	3293	1/1	0.44	1.77	112,112,112,112	0
54	MG	AA	1810	1/1	0.45	0.58	126,126,126,126	0
54	MG	CA	1602	1/1	0.45	0.56	115,115,115,115	0
54	MG	DA	3367	1/1	0.45	1.02	125,125,125,125	0
54	MG	AA	1769	1/1	0.46	0.23	124,124,124,124	0
54	MG	B6	101	1/1	0.47	0.64	128,128,128,128	0
54	MG	DA	3032	1/1	0.47	0.38	127,127,127,127	0
54	MG	DA	3016	1/1	0.48	0.37	123,123,123,123	0
54	MG	BA	3472	1/1	0.48	0.29	114,114,114,114	0
54	MG	DA	3002	1/1	0.48	0.41	109,109,109,109	0
54	MG	DA	3011	1/1	0.48	0.26	128,128,128,128	0
54	MG	BA	3084	1/1	0.49	0.80	110,110,110,110	0
54	MG	AA	1763	1/1	0.49	0.36	110,110,110,110	0
54	MG	CA	1727	1/1	0.50	0.18	113,113,113,113	0
54	MG	CA	1747	1/1	0.51	0.53	122,122,122,122	0
54	MG	BA	3521	1/1	0.51	0.22	123,123,123,123	0
54	MG	AA	1816	1/1	0.52	0.28	115,115,115,115	0
54	MG	BA	3285	1/1	0.52	0.51	114,114,114,114	0
54	MG	CA	1713	1/1	0.53	0.12	137,137,137,137	0
54	MG	AA	1790	1/1	0.53	0.50	115,115,115,115	0
54	MG	BA	3509	1/1	0.53	0.42	104,104,104,104	0
54	MG	BA	3455	1/1	0.53	0.52	107,107,107,107	0
54	MG	CA	1766	1/1	0.53	0.28	107,107,107,107	0
54	MG	BA	3618	1/1	0.53	0.74	107,107,107,107	0
54	MG	BA	3191	1/1	0.54	0.67	111,111,111,111	0
54	MG	BA	3505	1/1	0.54	0.48	108,108,108,108	0
54	MG	DA	3478	1/1	0.54	0.42	114,114,114,114	0
54	MG	AA	1696	1/1	0.54	0.23	104,104,104,104	0
54	MG	AA	1625	1/1	0.54	0.26	110,110,110,110	0
54	MG	AA	1671	1/1	0.55	0.27	110,110,110,110	0
54	MG	CA	1711	1/1	0.55	0.24	119,119,119,119	0
54	MG	DA	3396	1/1	0.55	0.21	95,95,95,95	0
54	MG	AA	1685	1/1	0.56	0.38	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3506	1/1	0.56	0.22	92,92,92,92	0
54	MG	AA	1690	1/1	0.56	0.26	128,128,128,128	0
54	MG	DA	3104	1/1	0.56	0.48	107,107,107,107	0
54	MG	BA	3446	1/1	0.56	0.52	127,127,127,127	0
54	MG	BA	3116	1/1	0.56	0.27	137,137,137,137	0
54	MG	DA	3523	1/1	0.56	0.43	100,100,100,100	0
54	MG	BA	3367	1/1	0.56	0.20	124,124,124,124	0
54	MG	AA	1802	1/1	0.56	0.29	136,136,136,136	0
54	MG	BO	202	1/1	0.57	0.29	98,98,98,98	0
54	MG	BA	3612	1/1	0.57	0.41	99,99,99,99	0
54	MG	BA	3096	1/1	0.57	0.52	129,129,129,129	0
54	MG	DA	3178	1/1	0.58	0.26	100,100,100,100	0
54	MG	AA	1710	1/1	0.58	0.28	116,116,116,116	0
54	MG	DA	3424	1/1	0.58	0.60	115,115,115,115	0
54	MG	BA	3493	1/1	0.58	0.41	116,116,116,116	0
54	MG	CA	1626	1/1	0.58	0.19	117,117,117,117	0
54	MG	BA	3324	1/1	0.58	0.33	101,101,101,101	0
54	MG	CA	1642	1/1	0.58	0.14	105,105,105,105	0
54	MG	DA	3295	1/1	0.59	0.44	105,105,105,105	0
54	MG	AC	108	1/1	0.59	2.21	112,112,112,112	0
54	MG	AA	1628	1/1	0.59	0.36	142,142,142,142	0
54	MG	CA	1773	1/1	0.59	0.21	114,114,114,114	0
54	MG	CA	1787	1/1	0.59	0.25	129,129,129,129	0
54	MG	BA	3539	1/1	0.59	0.49	99,99,99,99	0
54	MG	DA	3412	1/1	0.59	0.15	110,110,110,110	0
54	MG	CA	1799	1/1	0.59	0.21	150,150,150,150	0
54	MG	BA	3384	1/1	0.59	0.23	107,107,107,107	0
54	MG	AA	1751	1/1	0.59	0.56	102,102,102,102	0
54	MG	BA	3403	1/1	0.59	0.36	114,114,114,114	0
54	MG	BA	3470	1/1	0.59	0.37	117,117,117,117	0
54	MG	BA	3370	1/1	0.60	0.41	111,111,111,111	0
54	MG	CA	1662	1/1	0.60	0.34	120,120,120,120	0
54	MG	DA	3164	1/1	0.60	0.39	136,136,136,136	0
54	MG	BA	3530	1/1	0.60	0.40	110,110,110,110	0
54	MG	AA	1820	1/1	0.60	1.32	130,130,130,130	0
54	MG	DA	3449	1/1	0.60	0.39	106,106,106,106	0
54	MG	AA	1758	1/1	0.60	0.28	111,111,111,111	0
54	MG	DA	3485	1/1	0.60	0.19	104,104,104,104	0
54	MG	BA	3543	1/1	0.60	0.30	90,90,90,90	0
54	MG	DA	3087	1/1	0.60	0.14	111,111,111,111	0
54	MG	BA	3075	1/1	0.60	0.53	97,97,97,97	0
54	MG	DA	3397	1/1	0.61	0.24	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	BA	3457	1/1	0.61	0.31	112,112,112,112	0
54	MG	DA	3419	1/1	0.61	0.27	100,100,100,100	0
54	MG	BA	3149	1/1	0.61	0.29	110,110,110,110	0
54	MG	CA	1684	1/1	0.61	0.25	115,115,115,115	0
54	MG	BB	214	1/1	0.61	0.44	108,108,108,108	0
54	MG	AA	1738	1/1	0.61	0.32	117,117,117,117	0
54	MG	DA	3374	1/1	0.61	0.20	106,106,106,106	0
54	MG	AS	101	1/1	0.61	0.30	106,106,106,106	0
54	MG	AA	1693	1/1	0.61	0.37	123,123,123,123	0
54	MG	BA	3230	1/1	0.62	0.34	97,97,97,97	0
54	MG	AA	1687	1/1	0.62	0.40	99,99,99,99	0
54	MG	BA	3424	1/1	0.62	0.58	111,111,111,111	0
54	MG	BA	3154	1/1	0.62	0.38	104,104,104,104	0
54	MG	DA	3487	1/1	0.62	0.27	108,108,108,108	0
54	MG	BA	3291	1/1	0.62	0.40	99,99,99,99	0
54	MG	BA	3119	1/1	0.62	0.41	78,78,78,78	0
54	MG	DA	3341	1/1	0.62	0.38	107,107,107,107	0
54	MG	BA	3319	1/1	0.63	0.56	129,129,129,129	0
54	MG	AA	1749	1/1	0.63	0.23	112,112,112,112	0
54	MG	BA	3480	1/1	0.63	0.17	187,187,187,187	0
54	MG	BA	3481	1/1	0.63	0.37	99,99,99,99	0
54	MG	CA	1792	1/1	0.63	0.14	160,160,160,160	0
54	MG	AA	1752	1/1	0.63	0.50	121,121,121,121	0
54	MG	DA	3402	1/1	0.64	0.36	105,105,105,105	0
54	MG	DA	3017	1/1	0.64	0.27	111,111,111,111	0
54	MG	BA	3102	1/1	0.64	0.26	98,98,98,98	0
54	MG	BA	3245	1/1	0.64	0.48	120,120,120,120	0
54	MG	BA	3365	1/1	0.64	0.57	104,104,104,104	0
54	MG	DA	3450	1/1	0.64	0.29	130,130,130,130	0
54	MG	DA	3455	1/1	0.64	0.25	147,147,147,147	0
54	MG	DA	3463	1/1	0.64	0.36	109,109,109,109	0
54	MG	DA	3371	1/1	0.64	0.30	111,111,111,111	0
54	MG	AA	1807	1/1	0.64	0.24	101,101,101,101	0
54	MG	DA	3486	1/1	0.64	1.05	112,112,112,112	0
54	MG	DA	3377	1/1	0.64	0.36	102,102,102,102	0
54	MG	AA	1672	1/1	0.64	0.26	112,112,112,112	0
54	MG	BA	3124	1/1	0.64	0.30	110,110,110,110	0
54	MG	DA	3093	1/1	0.64	0.21	106,106,106,106	0
54	MG	AA	1676	1/1	0.65	0.45	132,132,132,132	0
54	MG	DA	3430	1/1	0.65	0.21	105,105,105,105	0
54	MG	AQ	102	1/1	0.65	0.34	118,118,118,118	0
54	MG	DA	3162	1/1	0.65	0.38	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3056	1/1	0.65	0.53	101,101,101,101	0
54	MG	AA	1724	1/1	0.65	0.42	115,115,115,115	0
54	MG	DA	3051	1/1	0.65	0.28	81,81,81,81	0
54	MG	DA	3256	1/1	0.65	1.67	103,103,103,103	0
54	MG	AA	1636	1/1	0.65	0.32	92,92,92,92	0
54	MG	BA	3448	1/1	0.65	0.25	95,95,95,95	0
54	MG	DA	3517	1/1	0.65	0.32	106,106,106,106	0
54	MG	CA	1765	1/1	0.65	0.25	126,126,126,126	0
54	MG	BA	3617	1/1	0.65	0.38	134,134,134,134	0
54	MG	DA	3304	1/1	0.65	0.24	83,83,83,83	0
54	MG	DA	3098	1/1	0.66	0.16	139,139,139,139	0
54	MG	DA	3252	1/1	0.66	0.22	108,108,108,108	0
54	MG	CA	1751	1/1	0.66	0.59	118,118,118,118	0
54	MG	BA	3314	1/1	0.66	0.17	104,104,104,104	0
54	MG	DA	3177	1/1	0.66	0.25	99,99,99,99	0
54	MG	DA	3343	1/1	0.66	0.34	95,95,95,95	0
54	MG	CA	1745	1/1	0.67	0.24	132,132,132,132	0
54	MG	BA	3443	1/1	0.67	0.45	124,124,124,124	0
54	MG	AA	1611	1/1	0.67	0.17	138,138,138,138	0
54	MG	DA	3280	1/1	0.67	0.21	94,94,94,94	0
54	MG	AA	1688	1/1	0.67	0.10	146,146,146,146	0
54	MG	AA	1787	1/1	0.67	0.18	115,115,115,115	0
54	MG	AA	1745	1/1	0.67	0.26	128,128,128,128	0
54	MG	DA	3398	1/1	0.67	0.29	130,130,130,130	0
54	MG	BA	3369	1/1	0.67	0.44	94,94,94,94	0
54	MG	DA	3410	1/1	0.67	0.44	118,118,118,118	0
54	MG	AA	1719	1/1	0.67	0.26	110,110,110,110	0
54	MG	BA	3437	1/1	0.67	0.27	81,81,81,81	0
54	MG	BB	206	1/1	0.67	0.27	97,97,97,97	0
54	MG	DA	3407	1/1	0.68	0.21	114,114,114,114	0
54	MG	BA	3212	1/1	0.68	0.47	124,124,124,124	0
54	MG	CA	1716	1/1	0.68	0.47	126,126,126,126	0
54	MG	DA	3310	1/1	0.68	0.50	111,111,111,111	0
54	MG	DA	3321	1/1	0.68	0.19	89,89,89,89	0
54	MG	BA	3477	1/1	0.68	0.38	93,93,93,93	0
54	MG	CA	1731	1/1	0.68	0.51	110,110,110,110	0
54	MG	BA	3398	1/1	0.68	0.60	105,105,105,105	0
54	MG	DA	3359	1/1	0.68	0.30	102,102,102,102	0
54	MG	AG	301	1/1	0.68	0.14	114,114,114,114	0
54	MG	BA	3122	1/1	0.68	0.26	114,114,114,114	0
54	MG	CA	1749	1/1	0.68	0.20	120,120,120,120	0
54	MG	BA	3188	1/1	0.68	0.61	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3374	1/1	0.68	0.16	104,104,104,104	0
54	MG	CA	1663	1/1	0.68	0.13	105,105,105,105	0
54	MG	BA	3566	1/1	0.68	0.40	100,100,100,100	0
54	MG	CA	1700	1/1	0.68	0.34	92,92,92,92	0
54	MG	BA	3066	1/1	0.68	0.38	97,97,97,97	0
54	MG	AA	1750	1/1	0.69	0.61	110,110,110,110	0
54	MG	BA	3357	1/1	0.69	0.78	119,119,119,119	0
54	MG	DA	3080	1/1	0.69	0.20	114,114,114,114	0
54	MG	CA	1622	1/1	0.69	0.47	122,122,122,122	0
54	MG	AA	1670	1/1	0.69	0.28	83,83,83,83	0
54	MG	BA	3442	1/1	0.69	0.49	112,112,112,112	0
54	MG	BA	3278	1/1	0.69	0.34	101,101,101,101	0
54	MG	DA	3018	1/1	0.69	0.45	83,83,83,83	0
54	MG	AA	1773	1/1	0.69	0.54	137,137,137,137	0
54	MG	BA	3576	1/1	0.69	0.41	120,120,120,120	0
54	MG	BA	3329	1/1	0.69	0.45	106,106,106,106	0
54	MG	DE	302	1/1	0.69	0.27	97,97,97,97	0
54	MG	AA	1809	1/1	0.70	0.43	108,108,108,108	0
54	MG	BA	3407	1/1	0.70	0.42	105,105,105,105	0
54	MG	AA	1772	1/1	0.70	0.32	155,155,155,155	0
54	MG	BA	3564	1/1	0.70	0.58	116,116,116,116	0
54	MG	AA	1778	1/1	0.70	0.21	136,136,136,136	0
54	MG	CA	1698	1/1	0.70	0.23	96,96,96,96	0
54	MG	CG	301	1/1	0.70	0.37	115,115,115,115	0
54	MG	DA	3427	1/1	0.70	0.27	114,114,114,114	0
54	MG	CA	1630	1/1	0.70	0.42	120,120,120,120	0
54	MG	BA	3494	1/1	0.70	0.23	97,97,97,97	0
54	MG	BA	3069	1/1	0.70	0.54	115,115,115,115	0
54	MG	BA	3537	1/1	0.71	0.38	124,124,124,124	0
54	MG	CA	1604	1/1	0.71	0.47	105,105,105,105	0
54	MG	BA	3137	1/1	0.71	0.25	105,105,105,105	0
54	MG	DA	3022	1/1	0.71	0.22	86,86,86,86	0
54	MG	CA	1616	1/1	0.71	0.28	108,108,108,108	0
54	MG	DA	3149	1/1	0.71	0.15	112,112,112,112	0
54	MG	DA	3468	1/1	0.71	0.29	126,126,126,126	0
54	MG	DA	3239	1/1	0.71	0.67	105,105,105,105	0
54	MG	CA	1688	1/1	0.72	0.38	101,101,101,101	0
54	MG	DA	3475	1/1	0.72	0.32	121,121,121,121	0
54	MG	CA	1784	1/1	0.72	0.18	94,94,94,94	0
54	MG	DA	3481	1/1	0.72	0.38	101,101,101,101	0
54	MG	DA	3421	1/1	0.72	0.24	141,141,141,141	0
54	MG	DA	3004	1/1	0.72	0.34	120,120,120,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3535	1/1	0.72	0.45	116,116,116,116	0
54	MG	BA	3383	1/1	0.72	0.38	95,95,95,95	0
54	MG	BA	3214	1/1	0.72	0.74	93,93,93,93	0
54	MG	CA	1794	1/1	0.72	0.42	109,109,109,109	0
54	MG	DA	3085	1/1	0.72	0.37	113,113,113,113	0
54	MG	DB	208	1/1	0.72	0.11	105,105,105,105	0
54	MG	BA	3205	1/1	0.72	0.27	88,88,88,88	0
54	MG	DA	3461	1/1	0.73	0.18	102,102,102,102	0
54	MG	BA	3440	1/1	0.73	0.33	79,79,79,79	0
54	MG	CA	1756	1/1	0.73	0.33	111,111,111,111	0
54	MG	BA	3228	1/1	0.73	0.54	85,85,85,85	0
54	MG	BA	3269	1/1	0.73	0.23	85,85,85,85	0
54	MG	DA	3352	1/1	0.73	0.35	81,81,81,81	0
54	MG	AA	1765	1/1	0.73	0.15	137,137,137,137	0
54	MG	CA	1723	1/1	0.73	0.46	111,111,111,111	0
54	MG	BA	3235	1/1	0.73	0.37	128,128,128,128	0
54	MG	BA	3615	1/1	0.73	0.21	92,92,92,92	0
54	MG	AA	1829	1/1	0.73	0.27	112,112,112,112	0
54	MG	BA	3292	1/1	0.73	0.48	113,113,113,113	0
54	MG	BA	3300	1/1	0.73	0.34	102,102,102,102	0
54	MG	DA	3453	1/1	0.73	0.23	104,104,104,104	0
54	MG	DB	209	1/1	0.73	0.28	131,131,131,131	0
54	MG	DD	301	1/1	0.73	0.39	119,119,119,119	0
54	MG	BA	3465	1/1	0.73	0.64	107,107,107,107	0
54	MG	CC	108	1/1	0.74	0.33	129,129,129,129	0
54	MG	BA	3496	1/1	0.74	0.47	108,108,108,108	0
54	MG	BA	3541	1/1	0.74	0.51	120,120,120,120	0
54	MG	DA	3168	1/1	0.74	0.16	95,95,95,95	0
54	MG	DA	3320	1/1	0.74	0.70	110,110,110,110	0
54	MG	CA	1774	1/1	0.74	0.33	110,110,110,110	0
54	MG	DA	3482	1/1	0.74	0.14	120,120,120,120	0
54	MG	CA	1695	1/1	0.74	0.44	111,111,111,111	0
54	MG	DA	3195	1/1	0.74	0.22	104,104,104,104	0
54	MG	DA	3203	1/1	0.74	0.26	90,90,90,90	0
54	MG	BA	3459	1/1	0.74	0.37	91,91,91,91	0
54	MG	BA	3548	1/1	0.74	0.36	96,96,96,96	0
54	MG	BA	3484	1/1	0.74	0.33	116,116,116,116	0
54	MG	DA	3434	1/1	0.74	0.36	110,110,110,110	0
54	MG	DA	3272	1/1	0.74	0.24	92,92,92,92	0
54	MG	BA	3562	1/1	0.74	0.33	97,97,97,97	0
54	MG	DB	210	1/1	0.74	0.20	73,73,73,73	0
54	MG	BA	3196	1/1	0.74	0.28	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3275	1/1	0.74	0.52	111,111,111,111	0
54	MG	DA	3318	1/1	0.75	0.43	91,91,91,91	0
54	MG	CA	1803	1/1	0.75	0.37	123,123,123,123	0
54	MG	DA	3125	1/1	0.75	0.18	105,105,105,105	0
54	MG	DA	3324	1/1	0.75	0.23	109,109,109,109	0
54	MG	AA	1674	1/1	0.75	0.47	119,119,119,119	0
54	MG	BA	3320	1/1	0.75	0.35	104,104,104,104	0
54	MG	BA	3534	1/1	0.75	0.41	95,95,95,95	0
54	MG	CA	1638	1/1	0.75	0.28	128,128,128,128	0
54	MG	BA	3376	1/1	0.75	0.52	96,96,96,96	0
54	MG	DA	3474	1/1	0.75	0.34	107,107,107,107	0
54	MG	BA	3127	1/1	0.75	0.26	109,109,109,109	0
54	MG	AA	1643	1/1	0.75	0.12	112,112,112,112	0
54	MG	AA	1796	1/1	0.75	0.26	109,109,109,109	0
54	MG	CA	1755	1/1	0.75	0.17	97,97,97,97	0
54	MG	DA	3027	1/1	0.75	0.11	115,115,115,115	0
54	MG	BA	3485	1/1	0.75	0.25	90,90,90,90	0
54	MG	CA	1679	1/1	0.75	0.15	94,94,94,94	0
54	MG	DA	3512	1/1	0.75	0.39	81,81,81,81	0
54	MG	BA	3396	1/1	0.75	0.49	101,101,101,101	0
54	MG	BA	3071	1/1	0.75	0.29	103,103,103,103	0
54	MG	CA	1601	1/1	0.75	0.20	108,108,108,108	0
54	MG	AA	1801	1/1	0.75	0.21	97,97,97,97	0
54	MG	AA	1782	1/1	0.75	0.14	168,168,168,168	0
54	MG	CA	1707	1/1	0.75	0.45	109,109,109,109	0
54	MG	BA	3458	1/1	0.75	0.47	96,96,96,96	0
54	MG	BA	3368	1/1	0.75	0.43	93,93,93,93	0
54	MG	AA	1805	1/1	0.75	0.80	108,108,108,108	0
54	MG	BA	3251	1/1	0.76	0.56	109,109,109,109	0
54	MG	CA	1728	1/1	0.76	0.26	144,144,144,144	0
54	MG	BA	3340	1/1	0.76	0.62	95,95,95,95	0
54	MG	BA	3296	1/1	0.76	0.45	93,93,93,93	0
54	MG	CA	1778	1/1	0.76	0.43	118,118,118,118	0
54	MG	BA	3513	1/1	0.76	0.20	112,112,112,112	0
54	MG	BA	3090	1/1	0.76	0.18	78,78,78,78	0
54	MG	DA	3348	1/1	0.76	0.18	108,108,108,108	0
54	MG	DA	3260	1/1	0.76	0.38	128,128,128,128	0
54	MG	CA	1712	1/1	0.76	0.23	105,105,105,105	0
54	MG	BA	3204	1/1	0.76	0.50	98,98,98,98	0
54	MG	DA	3519	1/1	0.76	0.21	94,94,94,94	0
54	MG	CA	1753	1/1	0.76	0.20	95,95,95,95	0
54	MG	DB	204	1/1	0.76	0.13	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3037	1/1	0.76	1.07	117,117,117,117	0
54	MG	BA	3452	1/1	0.76	0.29	131,131,131,131	0
54	MG	BA	3379	1/1	0.76	0.37	106,106,106,106	0
54	MG	DA	3460	1/1	0.76	0.19	96,96,96,96	0
54	MG	DA	3042	1/1	0.76	0.23	111,111,111,111	0
54	MG	CA	1761	1/1	0.76	0.20	170,170,170,170	0
54	MG	DA	3464	1/1	0.76	0.20	101,101,101,101	0
54	MG	DA	3385	1/1	0.77	0.19	95,95,95,95	0
54	MG	BA	3390	1/1	0.77	0.26	81,81,81,81	0
54	MG	AA	1692	1/1	0.77	0.24	108,108,108,108	0
54	MG	BA	3265	1/1	0.77	0.28	96,96,96,96	0
54	MG	BA	3110	1/1	0.77	0.35	92,92,92,92	0
54	MG	CA	1608	1/1	0.77	0.21	103,103,103,103	0
54	MG	BB	207	1/1	0.77	0.34	131,131,131,131	0
54	MG	BA	3132	1/1	0.77	0.34	127,127,127,127	0
54	MG	AA	1748	1/1	0.77	0.66	130,130,130,130	0
54	MG	DA	3416	1/1	0.77	0.32	100,100,100,100	0
54	MG	AA	1770	1/1	0.77	0.53	98,98,98,98	0
54	MG	DA	3370	1/1	0.77	0.16	96,96,96,96	0
54	MG	DA	3103	1/1	0.77	0.12	117,117,117,117	0
54	MG	BA	3414	1/1	0.77	0.20	98,98,98,98	0
54	MG	AH	202	1/1	0.77	0.13	108,108,108,108	0
54	MG	CA	1705	1/1	0.78	0.49	114,114,114,114	0
54	MG	BA	3354	1/1	0.78	0.39	113,113,113,113	0
54	MG	DA	3172	1/1	0.78	0.64	110,110,110,110	0
54	MG	CC	106	1/1	0.78	0.17	112,112,112,112	0
54	MG	AA	1699	1/1	0.78	0.20	122,122,122,122	0
54	MG	BA	3393	1/1	0.78	0.20	108,108,108,108	0
54	MG	BA	3421	1/1	0.78	0.86	106,106,106,106	0
54	MG	BA	3450	1/1	0.78	0.32	99,99,99,99	0
54	MG	DA	3417	1/1	0.78	0.17	110,110,110,110	0
54	MG	BA	3565	1/1	0.78	0.22	86,86,86,86	0
54	MG	BA	3360	1/1	0.78	0.29	110,110,110,110	0
54	MG	AA	1694	1/1	0.78	0.79	105,105,105,105	0
54	MG	BA	3598	1/1	0.78	0.36	84,84,84,84	0
54	MG	DA	3362	1/1	0.78	0.17	120,120,120,120	0
54	MG	DA	3366	1/1	0.78	0.37	103,103,103,103	0
54	MG	BA	3489	1/1	0.78	0.29	104,104,104,104	0
54	MG	BA	3431	1/1	0.78	0.41	96,96,96,96	0
54	MG	DA	3291	1/1	0.78	0.41	85,85,85,85	0
54	MG	BA	3183	1/1	0.78	0.20	110,110,110,110	0
54	MG	BA	3400	1/1	0.78	0.25	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	AA	1664	1/1	0.78	0.30	96,96,96,96	0
54	MG	DA	3301	1/1	0.78	1.06	124,124,124,124	0
54	MG	DZ	101	1/1	0.78	0.26	113,113,113,113	0
54	MG	AA	1812	1/1	0.79	0.22	124,124,124,124	0
54	MG	CA	1699	1/1	0.79	0.24	81,81,81,81	0
54	MG	AA	1740	1/1	0.79	0.38	75,75,75,75	0
54	MG	DA	3372	1/1	0.79	0.24	101,101,101,101	0
54	MG	DA	3096	1/1	0.79	0.25	125,125,125,125	0
54	MG	BA	3626	1/1	0.79	0.47	103,103,103,103	0
54	MG	BA	3401	1/1	0.79	0.36	91,91,91,91	0
54	MG	BA	3011	1/1	0.79	0.36	72,72,72,72	0
54	MG	DA	3123	1/1	0.79	0.16	106,106,106,106	0
54	MG	AA	1680	1/1	0.79	0.39	104,104,104,104	0
54	MG	DA	3135	1/1	0.79	0.44	99,99,99,99	0
54	MG	AA	1786	1/1	0.79	0.29	131,131,131,131	0
54	MG	BA	3361	1/1	0.79	0.57	123,123,123,123	0
54	MG	BA	3526	1/1	0.79	0.51	115,115,115,115	0
54	MG	CA	1781	1/1	0.79	0.24	126,126,126,126	0
54	MG	BA	3449	1/1	0.79	0.48	118,118,118,118	0
54	MG	AA	1649	1/1	0.79	0.15	90,90,90,90	0
54	MG	CA	1666	1/1	0.79	0.35	120,120,120,120	0
54	MG	BA	3532	1/1	0.79	0.33	100,100,100,100	0
54	MG	DA	3045	1/1	0.79	0.17	67,67,67,67	0
54	MG	AA	1722	1/1	0.79	0.14	109,109,109,109	0
54	MG	AA	1662	1/1	0.79	1.48	111,111,111,111	0
54	MG	DA	3354	1/1	0.79	0.70	105,105,105,105	0
54	MG	DA	3437	1/1	0.79	0.22	96,96,96,96	0
54	MG	DB	214	1/1	0.79	0.09	118,118,118,118	0
54	MG	DA	3207	1/1	0.79	0.22	86,86,86,86	0
54	MG	AA	1811	1/1	0.79	0.14	154,154,154,154	0
54	MG	CA	1750	1/1	0.79	0.47	122,122,122,122	0
54	MG	DA	3346	1/1	0.80	0.24	93,93,93,93	0
54	MG	BA	3406	1/1	0.80	0.51	86,86,86,86	0
54	MG	DA	3008	1/1	0.80	0.47	93,93,93,93	0
54	MG	BA	3595	1/1	0.80	0.36	105,105,105,105	0
54	MG	AA	1618	1/1	0.80	0.23	98,98,98,98	0
54	MG	CA	1790	1/1	0.80	0.41	118,118,118,118	0
54	MG	BF	301	1/1	0.80	0.86	100,100,100,100	0
54	MG	AA	1759	1/1	0.80	0.32	87,87,87,87	0
54	MG	DA	3425	1/1	0.80	0.23	122,122,122,122	0
54	MG	CA	1758	1/1	0.80	0.47	110,110,110,110	0
54	MG	DA	3428	1/1	0.80	0.15	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	AA	1658	1/1	0.80	0.22	79,79,79,79	0
54	MG	DA	3522	1/1	0.80	0.23	113,113,113,113	0
54	MG	DA	3033	1/1	0.80	0.20	89,89,89,89	0
54	MG	BA	3554	1/1	0.80	0.30	99,99,99,99	0
54	MG	DA	3441	1/1	0.80	0.19	116,116,116,116	0
54	MG	AA	1741	1/1	0.80	0.24	130,130,130,130	0
54	MG	DA	3250	1/1	0.80	0.87	105,105,105,105	0
54	MG	BA	3538	1/1	0.80	0.67	111,111,111,111	0
54	MG	BA	3242	1/1	0.80	0.52	115,115,115,115	0
54	MG	DA	3339	1/1	0.80	0.40	152,152,152,152	0
54	MG	BA	3540	1/1	0.80	0.47	122,122,122,122	0
54	MG	DA	3400	1/1	0.80	0.29	105,105,105,105	0
54	MG	DA	3265	1/1	0.80	0.37	115,115,115,115	0
54	MG	CA	1681	1/1	0.81	0.28	96,96,96,96	0
54	MG	DA	3057	1/1	0.81	0.16	104,104,104,104	0
54	MG	DA	3067	1/1	0.81	0.18	97,97,97,97	0
54	MG	DA	3071	1/1	0.81	0.67	123,123,123,123	0
54	MG	AA	1708	1/1	0.81	0.33	104,104,104,104	0
54	MG	DA	3300	1/1	0.81	0.47	107,107,107,107	0
54	MG	BE	305	1/1	0.81	0.43	111,111,111,111	0
54	MG	AA	1754	1/1	0.81	0.15	85,85,85,85	0
54	MG	DA	3435	1/1	0.81	0.23	99,99,99,99	0
54	MG	BA	3160	1/1	0.81	0.55	109,109,109,109	0
54	MG	BA	3561	1/1	0.81	0.24	86,86,86,86	0
54	MG	DA	3088	1/1	0.81	0.13	99,99,99,99	0
54	MG	BA	3380	1/1	0.81	0.26	91,91,91,91	0
54	MG	BA	3345	1/1	0.81	0.16	95,95,95,95	0
54	MG	BA	3522	1/1	0.81	0.12	106,106,106,106	0
54	MG	BA	3460	1/1	0.81	0.22	90,90,90,90	0
54	MG	BA	3169	1/1	0.81	0.36	104,104,104,104	0
54	MG	CA	1609	1/1	0.81	0.33	119,119,119,119	0
54	MG	CA	1611	1/1	0.81	0.42	114,114,114,114	0
54	MG	BA	3355	1/1	0.81	0.52	90,90,90,90	0
54	MG	DA	3148	1/1	0.81	0.22	70,70,70,70	0
54	MG	BA	3091	1/1	0.81	0.30	103,103,103,103	0
54	MG	BA	3185	1/1	0.81	0.93	112,112,112,112	0
54	MG	CA	1627	1/1	0.81	0.47	112,112,112,112	0
54	MG	BA	3441	1/1	0.81	0.23	95,95,95,95	0
54	MG	AA	1634	1/1	0.81	0.31	97,97,97,97	0
54	MG	CA	1633	1/1	0.81	0.39	107,107,107,107	0
54	MG	CA	1636	1/1	0.81	0.22	91,91,91,91	0
54	MG	DA	3509	1/1	0.81	0.17	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3303	1/1	0.81	0.12	119,119,119,119	0
54	MG	AA	1684	1/1	0.81	0.39	123,123,123,123	0
54	MG	DA	3518	1/1	0.81	0.50	94,94,94,94	0
54	MG	DA	3024	1/1	0.81	0.11	112,112,112,112	0
54	MG	BB	201	1/1	0.81	0.37	99,99,99,99	0
54	MG	DA	3029	1/1	0.81	0.25	87,87,87,87	0
54	MG	DA	3233	1/1	0.81	0.29	79,79,79,79	0
54	MG	DA	3235	1/1	0.81	0.26	89,89,89,89	0
54	MG	CA	1645	1/1	0.81	0.12	103,103,103,103	0
54	MG	AA	1669	1/1	0.81	0.23	79,79,79,79	0
54	MG	AA	1789	1/1	0.81	0.24	79,79,79,79	0
54	MG	BA	3404	1/1	0.81	0.29	93,93,93,93	0
54	MG	AA	1825	1/1	0.81	0.27	93,93,93,93	0
54	MG	BE	303	1/1	0.81	0.28	72,72,72,72	0
54	MG	CA	1772	1/1	0.81	0.23	109,109,109,109	0
54	MG	DR	201	1/1	0.81	0.67	86,86,86,86	0
54	MG	DU	201	1/1	0.81	0.17	103,103,103,103	0
54	MG	DA	3048	1/1	0.81	0.17	84,84,84,84	0
54	MG	B3	101	1/1	0.82	0.34	77,77,77,77	0
54	MG	DA	3299	1/1	0.82	1.67	105,105,105,105	0
54	MG	AA	1652	1/1	0.82	0.35	91,91,91,91	0
54	MG	AA	1727	1/1	0.82	0.12	110,110,110,110	0
54	MG	BA	3486	1/1	0.82	0.22	108,108,108,108	0
54	MG	DA	3305	1/1	0.82	0.35	91,91,91,91	0
54	MG	BA	3312	1/1	0.82	0.43	98,98,98,98	0
54	MG	DA	3436	1/1	0.82	0.14	120,120,120,120	0
54	MG	CA	1706	1/1	0.82	0.32	126,126,126,126	0
54	MG	BA	3129	1/1	0.82	0.16	92,92,92,92	0
54	MG	DA	3444	1/1	0.82	0.29	100,100,100,100	0
54	MG	BA	3088	1/1	0.82	0.40	97,97,97,97	0
54	MG	AA	1728	1/1	0.82	0.14	85,85,85,85	0
54	MG	DA	3332	1/1	0.82	0.25	120,120,120,120	0
54	MG	DA	3454	1/1	0.82	0.17	94,94,94,94	0
54	MG	CC	104	1/1	0.82	0.37	95,95,95,95	0
54	MG	BA	3323	1/1	0.82	0.40	116,116,116,116	0
54	MG	CC	107	1/1	0.82	0.92	120,120,120,120	0
54	MG	BA	3571	1/1	0.82	0.43	85,85,85,85	0
54	MG	CA	1717	1/1	0.82	0.25	135,135,135,135	0
54	MG	DA	3465	1/1	0.82	0.53	111,111,111,111	0
54	MG	AA	1766	1/1	0.82	0.11	94,94,94,94	0
54	MG	BA	3392	1/1	0.82	0.35	110,110,110,110	0
54	MG	BA	3092	1/1	0.82	0.44	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3355	1/1	0.82	0.15	89,89,89,89	0
54	MG	DA	3012	1/1	0.82	0.71	129,129,129,129	0
54	MG	AA	1689	1/1	0.82	0.22	153,153,153,153	0
54	MG	DA	3484	1/1	0.82	0.18	81,81,81,81	0
54	MG	AC	107	1/1	0.82	0.20	111,111,111,111	0
54	MG	BA	3177	1/1	0.82	1.63	101,101,101,101	0
54	MG	DA	3368	1/1	0.82	0.87	95,95,95,95	0
54	MG	BA	3351	1/1	0.82	0.55	84,84,84,84	0
54	MG	BA	3619	1/1	0.82	0.23	88,88,88,88	0
54	MG	AA	1715	1/1	0.82	0.31	115,115,115,115	0
54	MG	AA	1815	1/1	0.82	0.49	88,88,88,88	0
54	MG	AA	1792	1/1	0.82	0.47	93,93,93,93	0
54	MG	CA	1754	1/1	0.82	0.44	97,97,97,97	0
54	MG	CA	1647	1/1	0.82	0.31	83,83,83,83	0
54	MG	DA	3525	1/1	0.82	0.35	103,103,103,103	0
54	MG	AA	1675	1/1	0.82	0.12	93,93,93,93	0
54	MG	DA	3040	1/1	0.82	0.14	98,98,98,98	0
54	MG	BA	3286	1/1	0.82	0.22	98,98,98,98	0
54	MG	BA	3289	1/1	0.82	0.25	83,83,83,83	0
54	MG	DA	3044	1/1	0.82	0.11	96,96,96,96	0
54	MG	AA	1668	1/1	0.82	0.24	105,105,105,105	0
54	MG	DB	213	1/1	0.82	0.14	91,91,91,91	0
54	MG	AA	1828	1/1	0.82	0.34	94,94,94,94	0
54	MG	AA	1704	1/1	0.82	0.41	112,112,112,112	0
54	MG	BA	3428	1/1	0.82	0.38	80,80,80,80	0
54	MG	BA	3482	1/1	0.82	0.40	88,88,88,88	0
54	MG	CA	1693	1/1	0.82	0.42	117,117,117,117	0
54	MG	CA	1694	1/1	0.82	0.23	108,108,108,108	0
54	MG	CA	1757	1/1	0.83	0.11	149,149,149,149	0
54	MG	DA	3456	1/1	0.83	0.26	138,138,138,138	0
54	MG	DA	3092	1/1	0.83	0.31	80,80,80,80	0
54	MG	AA	1647	1/1	0.83	0.35	96,96,96,96	0
54	MG	BA	3467	1/1	0.83	0.20	102,102,102,102	0
54	MG	CA	1762	1/1	0.83	0.38	116,116,116,116	0
54	MG	DA	3283	1/1	0.83	0.22	114,114,114,114	0
54	MG	BA	3107	1/1	0.83	0.52	76,76,76,76	0
54	MG	BA	3560	1/1	0.83	0.51	91,91,91,91	0
54	MG	DA	3106	1/1	0.83	1.48	122,122,122,122	0
54	MG	BB	212	1/1	0.83	0.42	103,103,103,103	0
54	MG	BA	3108	1/1	0.83	0.46	82,82,82,82	0
54	MG	DA	3399	1/1	0.83	0.36	126,126,126,126	0
54	MG	BA	3233	1/1	0.83	0.29	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	DA	3144	1/1	0.83	0.43	85,85,85,85	0
54	MG	BA	3287	1/1	0.83	0.25	95,95,95,95	0
54	MG	BA	3528	1/1	0.83	0.56	104,104,104,104	0
54	MG	DA	3307	1/1	0.83	0.51	102,102,102,102	0
54	MG	DA	3157	1/1	0.83	0.18	90,90,90,90	0
54	MG	DA	3513	1/1	0.83	0.28	95,95,95,95	0
54	MG	BA	3334	1/1	0.83	0.20	115,115,115,115	0
54	MG	CA	1718	1/1	0.83	0.60	114,114,114,114	0
54	MG	BA	3568	1/1	0.83	0.91	105,105,105,105	0
54	MG	DA	3422	1/1	0.83	0.28	93,93,93,93	0
54	MG	AA	1637	1/1	0.83	0.55	115,115,115,115	0
54	MG	BA	3236	1/1	0.83	0.35	97,97,97,97	0
54	MG	B7	101	1/1	0.83	0.38	67,67,67,67	0
54	MG	AA	1723	1/1	0.83	0.28	92,92,92,92	0
54	MG	BA	3413	1/1	0.83	0.39	120,120,120,120	0
54	MG	DA	3191	1/1	0.83	0.27	103,103,103,103	0
54	MG	BA	3294	1/1	0.83	0.49	79,79,79,79	0
54	MG	CC	101	1/1	0.83	0.29	130,130,130,130	0
54	MG	DB	211	1/1	0.83	0.26	107,107,107,107	0
54	MG	BA	3150	1/1	0.83	0.17	90,90,90,90	0
54	MG	CA	1687	1/1	0.83	0.41	106,106,106,106	0
54	MG	BA	3085	1/1	0.83	0.48	95,95,95,95	0
54	MG	AA	1735	1/1	0.83	0.45	91,91,91,91	0
54	MG	BA	3207	1/1	0.83	0.78	116,116,116,116	0
54	MG	BA	3625	1/1	0.83	0.32	99,99,99,99	0
54	MG	AQ	101	1/1	0.83	0.34	84,84,84,84	0
54	MG	CA	1775	1/1	0.84	0.14	90,90,90,90	0
54	MG	CA	1776	1/1	0.84	0.40	125,125,125,125	0
54	MG	CA	1701	1/1	0.84	0.55	92,92,92,92	0
54	MG	DA	3215	1/1	0.84	0.21	80,80,80,80	0
54	MG	BA	3247	1/1	0.84	0.45	80,80,80,80	0
54	MG	BA	3600	1/1	0.84	0.54	97,97,97,97	0
54	MG	BA	3606	1/1	0.84	0.36	84,84,84,84	0
54	MG	CA	1710	1/1	0.84	0.36	104,104,104,104	0
54	MG	CA	1618	1/1	0.84	0.56	123,123,123,123	0
54	MG	BA	3301	1/1	0.84	0.25	85,85,85,85	0
54	MG	BA	3302	1/1	0.84	0.34	101,101,101,101	0
54	MG	BA	3249	1/1	0.84	0.32	84,84,84,84	0
54	MG	BA	3307	1/1	0.84	0.18	90,90,90,90	0
54	MG	BA	3310	1/1	0.84	0.28	103,103,103,103	0
54	MG	DA	3391	1/1	0.84	0.14	94,94,94,94	0
54	MG	DA	3483	1/1	0.84	0.27	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3250	1/1	0.84	0.41	87,87,87,87	0
54	MG	CC	103	1/1	0.84	0.16	150,150,150,150	0
54	MG	BA	3112	1/1	0.84	0.31	97,97,97,97	0
54	MG	AA	1757	1/1	0.84	0.11	118,118,118,118	0
54	MG	BB	204	1/1	0.84	0.48	86,86,86,86	0
54	MG	BA	3070	1/1	0.84	0.37	119,119,119,119	0
54	MG	BA	3217	1/1	0.84	0.19	92,92,92,92	0
54	MG	AA	1701	1/1	0.84	0.40	115,115,115,115	0
54	MG	AA	1617	1/1	0.84	0.37	91,91,91,91	0
54	MG	BA	3332	1/1	0.84	0.34	83,83,83,83	0
54	MG	DA	3520	1/1	0.84	0.16	100,100,100,100	0
54	MG	BA	3388	1/1	0.84	0.53	100,100,100,100	0
54	MG	BA	3389	1/1	0.84	0.25	102,102,102,102	0
54	MG	BA	3490	1/1	0.84	0.41	100,100,100,100	0
54	MG	DA	3315	1/1	0.84	0.19	125,125,125,125	0
54	MG	BA	3231	1/1	0.84	0.47	93,93,93,93	0
54	MG	BA	3097	1/1	0.84	0.40	83,83,83,83	0
54	MG	CA	1685	1/1	0.84	0.11	121,121,121,121	0
54	MG	AA	1832	1/1	0.84	0.23	102,102,102,102	0
54	MG	BA	3344	1/1	0.84	0.23	93,93,93,93	0
54	MG	AA	1651	1/1	0.84	0.19	108,108,108,108	0
54	MG	AA	1803	1/1	0.84	0.17	133,133,133,133	0
54	MG	AA	1764	1/1	0.84	0.11	118,118,118,118	0
54	MG	BA	3514	1/1	0.84	0.54	90,90,90,90	0
54	MG	BA	3453	1/1	0.84	0.40	85,85,85,85	0
54	MG	DA	3183	1/1	0.84	0.37	92,92,92,92	0
54	MG	DA	3351	1/1	0.84	0.37	90,90,90,90	0
54	MG	AA	1725	1/1	0.84	0.32	111,111,111,111	0
54	MG	BA	3034	1/1	0.85	0.37	69,69,69,69	0
54	MG	DA	3205	1/1	0.85	0.18	106,106,106,106	0
54	MG	BA	3525	1/1	0.85	0.26	96,96,96,96	0
54	MG	DA	3209	1/1	0.85	0.23	100,100,100,100	0
54	MG	CA	1796	1/1	0.85	0.24	115,115,115,115	0
54	MG	BA	3475	1/1	0.85	0.07	270,270,270,270	0
54	MG	B2	201	1/1	0.85	0.12	90,90,90,90	0
54	MG	BA	3046	1/1	0.85	0.42	86,86,86,86	0
54	MG	AA	1743	1/1	0.85	0.21	136,136,136,136	0
54	MG	BA	3336	1/1	0.85	0.30	109,109,109,109	0
54	MG	AA	1779	1/1	0.85	0.43	88,88,88,88	0
54	MG	CA	1752	1/1	0.85	0.37	106,106,106,106	0
54	MG	AA	1795	1/1	0.85	0.12	102,102,102,102	0
54	MG	BA	3607	1/1	0.85	0.30	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	BA	3611	1/1	0.85	0.38	101,101,101,101	0
54	MG	DA	3095	1/1	0.85	0.09	121,121,121,121	0
54	MG	AA	1716	1/1	0.85	0.45	107,107,107,107	0
54	MG	AA	1623	1/1	0.85	0.34	81,81,81,81	0
54	MG	DA	3292	1/1	0.85	0.16	129,129,129,129	0
54	MG	DA	3100	1/1	0.85	0.36	100,100,100,100	0
54	MG	BA	3412	1/1	0.85	0.28	94,94,94,94	0
54	MG	CA	1613	1/1	0.85	0.37	94,94,94,94	0
54	MG	BA	3279	1/1	0.85	0.46	74,74,74,74	0
54	MG	CA	1763	1/1	0.85	0.28	94,94,94,94	0
54	MG	BA	3311	1/1	0.85	0.25	100,100,100,100	0
54	MG	DA	3129	1/1	0.85	0.21	115,115,115,115	0
54	MG	DA	3021	1/1	0.85	0.14	77,77,77,77	0
54	MG	BA	3415	1/1	0.85	0.53	90,90,90,90	0
54	MG	BA	3189	1/1	0.85	0.25	88,88,88,88	0
54	MG	BA	3503	1/1	0.85	0.19	105,105,105,105	0
54	MG	DA	3028	1/1	0.85	0.32	122,122,122,122	0
54	MG	BA	3504	1/1	0.85	0.40	88,88,88,88	0
54	MG	AA	1831	1/1	0.85	0.17	124,124,124,124	0
54	MG	AA	1721	1/1	0.85	0.23	115,115,115,115	0
54	MG	BB	208	1/1	0.85	0.41	90,90,90,90	0
54	MG	AC	109	1/1	0.85	0.23	105,105,105,105	0
54	MG	BA	3511	1/1	0.85	0.25	80,80,80,80	0
54	MG	DA	3173	1/1	0.85	0.15	92,92,92,92	0
54	MG	AA	1709	1/1	0.85	0.07	155,155,155,155	0
54	MG	CA	1789	1/1	0.85	0.26	121,121,121,121	0
54	MG	DP	201	1/1	0.85	0.24	102,102,102,102	0
54	MG	BA	3432	1/1	0.85	0.18	126,126,126,126	0
54	MG	BA	3086	1/1	0.85	0.27	88,88,88,88	0
54	MG	DA	3046	1/1	0.85	0.13	82,82,82,82	0
54	MG	DA	3253	1/1	0.86	0.15	103,103,103,103	0
54	MG	CA	1702	1/1	0.86	0.25	156,156,156,156	0
54	MG	CA	1704	1/1	0.86	0.57	95,95,95,95	0
54	MG	BA	3559	1/1	0.86	0.67	105,105,105,105	0
54	MG	CA	1770	1/1	0.86	0.12	106,106,106,106	0
54	MG	BA	3508	1/1	0.86	0.45	85,85,85,85	0
54	MG	AA	1614	1/1	0.86	0.37	114,114,114,114	0
54	MG	BA	3358	1/1	0.86	0.41	108,108,108,108	0
54	MG	DA	3472	1/1	0.86	0.56	102,102,102,102	0
54	MG	BA	3466	1/1	0.86	0.32	92,92,92,92	0
54	MG	DA	3390	1/1	0.86	0.21	144,144,144,144	0
54	MG	BE	302	1/1	0.86	0.79	104,104,104,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3392	1/1	0.86	1.13	97,97,97,97	0
54	MG	CA	1641	1/1	0.86	0.20	135,135,135,135	0
54	MG	AA	1793	1/1	0.86	0.37	103,103,103,103	0
54	MG	AA	1729	1/1	0.86	0.39	108,108,108,108	0
54	MG	AJ	201	1/1	0.86	0.52	108,108,108,108	0
54	MG	BA	3439	1/1	0.86	0.41	109,109,109,109	0
54	MG	CA	1725	1/1	0.86	0.35	106,106,106,106	0
54	MG	DA	3492	1/1	0.86	0.17	111,111,111,111	0
54	MG	DA	3405	1/1	0.86	0.27	121,121,121,121	0
54	MG	AA	1691	1/1	0.86	0.36	105,105,105,105	0
54	MG	BA	3399	1/1	0.86	0.27	90,90,90,90	0
54	MG	AA	1733	1/1	0.86	0.22	120,120,120,120	0
54	MG	AR	101	1/1	0.86	0.39	98,98,98,98	0
54	MG	CA	1676	1/1	0.86	0.32	102,102,102,102	0
54	MG	BA	3483	1/1	0.86	0.18	89,89,89,89	0
54	MG	BA	3194	1/1	0.86	0.26	113,113,113,113	0
54	MG	CS	101	1/1	0.86	0.44	115,115,115,115	0
54	MG	BA	3043	1/1	0.86	0.33	83,83,83,83	0
54	MG	BA	3342	1/1	0.86	0.52	95,95,95,95	0
54	MG	DA	3196	1/1	0.86	0.17	101,101,101,101	0
54	MG	BA	3377	1/1	0.86	0.13	109,109,109,109	0
54	MG	BA	3282	1/1	0.86	0.53	107,107,107,107	0
54	MG	BA	3451	1/1	0.86	0.24	102,102,102,102	0
54	MG	BA	3094	1/1	0.86	0.43	97,97,97,97	0
54	MG	BA	3348	1/1	0.86	0.39	90,90,90,90	0
54	MG	DA	3089	1/1	0.86	0.19	117,117,117,117	0
54	MG	BA	3156	1/1	0.86	0.78	108,108,108,108	0
54	MG	BA	3385	1/1	0.86	0.43	72,72,72,72	0
54	MG	DA	3240	1/1	0.86	0.21	89,89,89,89	0
54	MG	DA	3247	1/1	0.86	0.21	89,89,89,89	0
54	MG	DA	3452	1/1	0.86	0.70	91,91,91,91	0
54	MG	BA	3077	1/1	0.86	0.34	77,77,77,77	0
54	MG	BA	3246	1/1	0.86	0.39	78,78,78,78	0
54	MG	BA	3454	1/1	0.87	0.29	103,103,103,103	0
54	MG	DA	3432	1/1	0.87	0.42	91,91,91,91	0
54	MG	DA	3151	1/1	0.87	0.25	113,113,113,113	0
54	MG	BA	3337	1/1	0.87	0.13	75,75,75,75	0
54	MG	BA	3507	1/1	0.87	0.57	127,127,127,127	0
54	MG	DA	3322	1/1	0.87	0.26	110,110,110,110	0
54	MG	BA	3563	1/1	0.87	0.41	96,96,96,96	0
54	MG	BA	3378	1/1	0.87	0.30	129,129,129,129	0
54	MG	DA	3447	1/1	0.87	0.12	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	CA	1683	1/1	0.87	0.21	113,113,113,113	0
54	MG	DA	3335	1/1	0.87	0.21	78,78,78,78	0
54	MG	DA	3451	1/1	0.87	0.21	90,90,90,90	0
54	MG	BP	201	1/1	0.87	1.34	115,115,115,115	0
54	MG	AA	1794	1/1	0.87	0.17	116,116,116,116	0
54	MG	AA	1824	1/1	0.87	0.13	120,120,120,120	0
54	MG	DA	3031	1/1	0.87	0.56	70,70,70,70	0
54	MG	B3	102	1/1	0.87	0.42	93,93,93,93	0
54	MG	DA	3349	1/1	0.87	0.20	88,88,88,88	0
54	MG	BA	3418	1/1	0.87	0.29	98,98,98,98	0
54	MG	CA	1769	1/1	0.87	0.17	136,136,136,136	0
54	MG	BA	3419	1/1	0.87	0.19	129,129,129,129	0
54	MG	B8	101	1/1	0.87	0.29	101,101,101,101	0
54	MG	AA	1718	1/1	0.87	0.33	124,124,124,124	0
54	MG	BA	3073	1/1	0.87	0.93	108,108,108,108	0
54	MG	BA	3306	1/1	0.87	0.28	81,81,81,81	0
54	MG	BA	3271	1/1	0.87	0.37	96,96,96,96	0
54	MG	BA	3024	1/1	0.87	0.20	81,81,81,81	0
54	MG	CA	1779	1/1	0.87	0.22	112,112,112,112	0
54	MG	CA	1780	1/1	0.87	0.10	137,137,137,137	0
54	MG	AA	1622	1/1	0.87	0.40	96,96,96,96	0
54	MG	BA	3082	1/1	0.87	0.38	109,109,109,109	0
54	MG	CA	1786	1/1	0.87	0.07	192,192,192,192	0
54	MG	AA	1678	1/1	0.87	0.40	108,108,108,108	0
54	MG	BA	3317	1/1	0.87	0.39	99,99,99,99	0
54	MG	DA	3387	1/1	0.87	0.24	106,106,106,106	0
54	MG	BA	3135	1/1	0.87	0.17	90,90,90,90	0
54	MG	AA	1639	1/1	0.87	0.42	91,91,91,91	0
54	MG	BA	3321	1/1	0.87	0.23	71,71,71,71	0
54	MG	DA	3394	1/1	0.87	1.01	106,106,106,106	0
54	MG	DA	3395	1/1	0.87	0.27	87,87,87,87	0
54	MG	BA	3622	1/1	0.87	0.17	120,120,120,120	0
54	MG	CA	1628	1/1	0.87	0.04	149,149,149,149	0
54	MG	BA	3624	1/1	0.87	0.50	92,92,92,92	0
54	MG	BA	3241	1/1	0.87	0.37	91,91,91,91	0
54	MG	CA	1632	1/1	0.87	0.43	111,111,111,111	0
54	MG	DA	3285	1/1	0.87	0.12	67,67,67,67	0
54	MG	AA	1641	1/1	0.87	0.17	90,90,90,90	0
54	MG	AC	105	1/1	0.87	0.08	107,107,107,107	0
54	MG	AA	1771	1/1	0.87	0.20	117,117,117,117	0
54	MG	BA	3405	1/1	0.87	0.25	73,73,73,73	0
54	MG	DA	3415	1/1	0.87	0.11	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	CA	1736	1/1	0.87	0.53	85,85,85,85	0
54	MG	BA	3372	1/1	0.87	0.66	99,99,99,99	0
54	MG	BA	3498	1/1	0.87	0.54	107,107,107,107	0
54	MG	BA	3552	1/1	0.87	0.17	98,98,98,98	0
54	MG	BA	3206	1/1	0.87	0.30	99,99,99,99	0
54	MG	BA	3558	1/1	0.87	0.37	118,118,118,118	0
54	MG	CA	1658	1/1	0.87	0.45	120,120,120,120	0
54	MG	BA	3155	1/1	0.87	0.30	113,113,113,113	0
54	MG	DA	3314	1/1	0.87	0.21	83,83,83,83	0
54	MG	BA	3134	1/1	0.88	0.39	130,130,130,130	0
54	MG	DA	3381	1/1	0.88	0.24	97,97,97,97	0
54	MG	DA	3382	1/1	0.88	0.37	80,80,80,80	0
54	MG	DA	3047	1/1	0.88	0.08	124,124,124,124	0
54	MG	AA	1753	1/1	0.88	0.09	143,143,143,143	0
54	MG	BA	3614	1/1	0.88	1.59	109,109,109,109	0
54	MG	BA	3079	1/1	0.88	0.51	99,99,99,99	0
54	MG	BA	3148	1/1	0.88	0.20	59,59,59,59	0
54	MG	BA	3030	1/1	0.88	0.29	66,66,66,66	0
54	MG	AA	1791	1/1	0.88	0.25	104,104,104,104	0
54	MG	BA	3153	1/1	0.88	0.31	89,89,89,89	0
54	MG	DA	3194	1/1	0.88	0.23	91,91,91,91	0
54	MG	BA	3208	1/1	0.88	0.37	91,91,91,91	0
54	MG	DA	3007	1/1	0.88	0.23	116,116,116,116	0
54	MG	DA	3479	1/1	0.88	0.31	106,106,106,106	0
54	MG	DA	3480	1/1	0.88	0.20	84,84,84,84	0
54	MG	BA	3518	1/1	0.88	0.19	86,86,86,86	0
54	MG	DA	3010	1/1	0.88	0.20	103,103,103,103	0
54	MG	BA	3519	1/1	0.88	0.40	75,75,75,75	0
54	MG	BA	3410	1/1	0.88	0.25	120,120,120,120	0
54	MG	DA	3329	1/1	0.88	0.28	110,110,110,110	0
54	MG	DA	3330	1/1	0.88	0.20	82,82,82,82	0
54	MG	DA	3411	1/1	0.88	0.17	68,68,68,68	0
54	MG	CA	1680	1/1	0.88	0.26	94,94,94,94	0
54	MG	AA	1712	1/1	0.88	0.32	97,97,97,97	0
54	MG	CA	1612	1/1	0.88	0.12	122,122,122,122	0
54	MG	AA	1642	1/1	0.88	0.15	103,103,103,103	0
54	MG	DA	3516	1/1	0.88	0.17	92,92,92,92	0
54	MG	AA	1784	1/1	0.88	0.37	91,91,91,91	0
54	MG	CA	1740	1/1	0.88	0.17	109,109,109,109	0
54	MG	DA	3345	1/1	0.88	0.35	107,107,107,107	0
54	MG	DA	3423	1/1	0.88	0.12	123,123,123,123	0
54	MG	DA	3248	1/1	0.88	0.40	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	AA	1629	1/1	0.88	0.09	186,186,186,186	0
54	MG	BA	3166	1/1	0.88	0.24	86,86,86,86	0
54	MG	DA	3113	1/1	0.88	0.27	105,105,105,105	0
54	MG	BA	3567	1/1	0.88	0.54	114,114,114,114	0
54	MG	AA	1830	1/1	0.88	0.09	135,135,135,135	0
54	MG	BA	3283	1/1	0.88	0.19	108,108,108,108	0
54	MG	AA	1775	1/1	0.88	0.28	80,80,80,80	0
54	MG	DA	3273	1/1	0.88	0.31	83,83,83,83	0
54	MG	DA	3365	1/1	0.88	0.17	100,100,100,100	0
54	MG	AA	1800	1/1	0.88	0.41	92,92,92,92	0
54	MG	DA	3443	1/1	0.88	0.14	103,103,103,103	0
54	MG	AA	1813	1/1	0.88	0.15	131,131,131,131	0
54	MG	CA	1798	1/1	0.88	0.34	84,84,84,84	0
54	MG	BA	3001	1/1	0.88	0.44	53,53,53,53	0
54	MG	AA	1711	1/1	0.88	0.28	118,118,118,118	0
54	MG	CA	1804	1/1	0.88	0.23	119,119,119,119	0
54	MG	BA	3464	1/1	0.88	0.42	80,80,80,80	0
54	MG	BA	3299	1/1	0.89	0.50	78,78,78,78	0
54	MG	BA	3545	1/1	0.89	0.23	108,108,108,108	0
54	MG	BA	3546	1/1	0.89	0.26	97,97,97,97	0
54	MG	CA	1764	1/1	0.89	0.31	110,110,110,110	0
54	MG	DA	3258	1/1	0.89	0.24	98,98,98,98	0
54	MG	BA	3547	1/1	0.89	0.33	108,108,108,108	0
54	MG	BA	3353	1/1	0.89	0.37	93,93,93,93	0
54	MG	DA	3101	1/1	0.89	0.40	94,94,94,94	0
54	MG	BA	3608	1/1	0.89	0.16	108,108,108,108	0
54	MG	B1	202	1/1	0.89	0.28	100,100,100,100	0
54	MG	DA	3462	1/1	0.89	0.13	102,102,102,102	0
54	MG	DA	3378	1/1	0.89	0.23	100,100,100,100	0
54	MG	BA	3266	1/1	0.89	0.30	77,77,77,77	0
54	MG	BA	3468	1/1	0.89	0.17	84,84,84,84	0
54	MG	BA	3553	1/1	0.89	0.48	99,99,99,99	0
54	MG	DA	3289	1/1	0.89	0.21	83,83,83,83	0
54	MG	AA	1612	1/1	0.89	0.22	135,135,135,135	0
54	MG	BA	3557	1/1	0.89	0.14	92,92,92,92	0
54	MG	B7	102	1/1	0.89	0.29	75,75,75,75	0
54	MG	DA	3138	1/1	0.89	0.20	79,79,79,79	0
54	MG	BA	3010	1/1	0.89	0.23	128,128,128,128	0
54	MG	CA	1659	1/1	0.89	0.13	158,158,158,158	0
54	MG	AA	1732	1/1	0.89	0.39	112,112,112,112	0
54	MG	CA	1724	1/1	0.89	0.14	98,98,98,98	0
54	MG	BA	3359	1/1	0.89	0.15	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3034	1/1	0.89	0.17	91,91,91,91	0
54	MG	DA	3161	1/1	0.89	0.25	77,77,77,77	0
54	MG	CA	1664	1/1	0.89	0.30	110,110,110,110	0
54	MG	DA	3313	1/1	0.89	0.29	122,122,122,122	0
54	MG	BA	3397	1/1	0.89	0.39	92,92,92,92	0
54	MG	CA	1671	1/1	0.89	0.38	75,75,75,75	0
54	MG	CA	1672	1/1	0.89	0.22	101,101,101,101	0
54	MG	BA	3014	1/1	0.89	0.37	68,68,68,68	0
54	MG	AA	1742	1/1	0.89	0.24	108,108,108,108	0
54	MG	BA	3255	1/1	0.89	0.53	110,110,110,110	0
54	MG	CA	1797	1/1	0.89	0.15	127,127,127,127	0
54	MG	BA	3325	1/1	0.89	0.14	89,89,89,89	0
54	MG	CA	1748	1/1	0.89	0.12	81,81,81,81	0
54	MG	BA	3510	1/1	0.89	0.45	118,118,118,118	0
54	MG	BA	3461	1/1	0.89	0.27	79,79,79,79	0
54	MG	DA	3066	1/1	0.89	0.22	79,79,79,79	0
54	MG	DA	3338	1/1	0.89	0.35	95,95,95,95	0
54	MG	DA	3198	1/1	0.89	0.26	95,95,95,95	0
54	MG	AC	104	1/1	0.89	0.27	107,107,107,107	0
54	MG	CH	201	1/1	0.89	0.30	114,114,114,114	0
54	MG	BA	3488	1/1	0.89	0.51	109,109,109,109	0
54	MG	CA	1619	1/1	0.89	0.15	111,111,111,111	0
54	MG	CA	1621	1/1	0.89	0.31	84,84,84,84	0
54	MG	DA	3083	1/1	0.89	0.49	117,117,117,117	0
54	MG	BA	3575	1/1	0.89	0.13	109,109,109,109	0
54	MG	DA	3086	1/1	0.89	0.11	84,84,84,84	0
54	MG	BA	3517	1/1	0.89	0.20	121,121,121,121	0
54	MG	CA	1696	1/1	0.89	0.34	98,98,98,98	0
54	MG	DA	3446	1/1	0.89	0.24	92,92,92,92	0
54	MG	BA	3594	1/1	0.89	0.69	94,94,94,94	0
55	TAC	CA	1805	32/32	0.89	0.11	126,153,170,174	0
54	MG	DA	3068	1/1	0.90	0.40	122,122,122,122	0
54	MG	DA	3438	1/1	0.90	0.21	134,134,134,134	0
54	MG	DA	3069	1/1	0.90	0.29	101,101,101,101	0
54	MG	AG	302	1/1	0.90	0.32	162,162,162,162	0
54	MG	DA	3212	1/1	0.90	0.32	59,59,59,59	0
54	MG	DA	3445	1/1	0.90	0.31	89,89,89,89	0
54	MG	CA	1667	1/1	0.90	0.23	139,139,139,139	0
54	MG	BA	3371	1/1	0.90	0.41	81,81,81,81	0
54	MG	BA	3167	1/1	0.90	0.37	95,95,95,95	0
54	MG	BA	3373	1/1	0.90	0.11	131,131,131,131	0
54	MG	BA	3139	1/1	0.90	0.31	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3360	1/1	0.90	0.25	85,85,85,85	0
54	MG	BA	3140	1/1	0.90	0.33	84,84,84,84	0
54	MG	BA	3178	1/1	0.90	0.48	78,78,78,78	0
54	MG	CA	1682	1/1	0.90	0.26	101,101,101,101	0
54	MG	BA	3497	1/1	0.90	0.39	78,78,78,78	0
54	MG	BA	3544	1/1	0.90	0.37	77,77,77,77	0
54	MG	DA	3369	1/1	0.90	0.36	76,76,76,76	0
54	MG	DA	3255	1/1	0.90	0.14	87,87,87,87	0
54	MG	BA	3226	1/1	0.90	0.45	87,87,87,87	0
54	MG	CA	1610	1/1	0.90	0.18	147,147,147,147	0
54	MG	BA	3456	1/1	0.90	0.29	108,108,108,108	0
54	MG	DA	3466	1/1	0.90	0.24	94,94,94,94	0
54	MG	CA	1760	1/1	0.90	0.21	135,135,135,135	0
54	MG	DA	3469	1/1	0.90	0.20	107,107,107,107	0
54	MG	DA	3471	1/1	0.90	0.16	102,102,102,102	0
54	MG	DA	3269	1/1	0.90	0.20	78,78,78,78	0
54	MG	DA	3380	1/1	0.90	0.32	94,94,94,94	0
54	MG	BA	3182	1/1	0.90	0.23	101,101,101,101	0
54	MG	BA	3343	1/1	0.90	0.23	86,86,86,86	0
54	MG	AA	1645	1/1	0.90	0.26	93,93,93,93	0
54	MG	AA	1707	1/1	0.90	0.13	94,94,94,94	0
54	MG	BA	3063	1/1	0.90	0.21	121,121,121,121	0
54	MG	CA	1620	1/1	0.90	0.24	73,73,73,73	0
54	MG	DA	3121	1/1	0.90	0.17	68,68,68,68	0
54	MG	BA	3422	1/1	0.90	0.18	120,120,120,120	0
54	MG	BA	3234	1/1	0.90	0.48	84,84,84,84	0
54	MG	BB	205	1/1	0.90	0.46	93,93,93,93	0
54	MG	BA	3425	1/1	0.90	0.10	137,137,137,137	0
54	MG	BA	3152	1/1	0.90	0.55	90,90,90,90	0
54	MG	BA	3190	1/1	0.90	0.34	93,93,93,93	0
54	MG	DA	3511	1/1	0.90	0.78	111,111,111,111	0
54	MG	BB	209	1/1	0.90	0.26	116,116,116,116	0
54	MG	BA	3515	1/1	0.90	0.52	112,112,112,112	0
54	MG	DA	3401	1/1	0.90	0.26	103,103,103,103	0
54	MG	BA	3469	1/1	0.90	0.52	125,125,125,125	0
54	MG	BB	213	1/1	0.90	0.41	72,72,72,72	0
54	MG	DA	3036	1/1	0.90	0.23	108,108,108,108	0
54	MG	BA	3318	1/1	0.90	0.30	88,88,88,88	0
54	MG	AA	1739	1/1	0.90	0.54	99,99,99,99	0
54	MG	CA	1785	1/1	0.90	0.28	83,83,83,83	0
54	MG	AA	1821	1/1	0.90	0.16	110,110,110,110	0
54	MG	BA	3133	1/1	0.90	0.40	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3478	1/1	0.90	0.13	155,155,155,155	0
54	MG	BA	3322	1/1	0.90	0.27	78,78,78,78	0
54	MG	DA	3176	1/1	0.90	0.21	112,112,112,112	0
54	MG	BA	3570	1/1	0.90	0.22	82,82,82,82	0
54	MG	DA	3325	1/1	0.90	0.39	74,74,74,74	0
54	MG	AA	1797	1/1	0.90	0.33	82,82,82,82	0
54	MG	AA	1646	1/1	0.90	0.07	150,150,150,150	0
54	MG	BA	3161	1/1	0.90	0.16	101,101,101,101	0
54	MG	CA	1735	1/1	0.90	0.10	103,103,103,103	0
54	MG	DE	301	1/1	0.90	0.17	73,73,73,73	0
54	MG	DA	3058	1/1	0.90	0.56	109,109,109,109	0
54	MG	DA	3431	1/1	0.90	0.56	101,101,101,101	0
54	MG	DA	3060	1/1	0.90	0.15	101,101,101,101	0
54	MG	BA	3326	1/1	0.90	0.36	89,89,89,89	0
54	MG	DA	3200	1/1	0.90	0.14	112,112,112,112	0
54	MG	BA	3248	1/1	0.90	0.41	74,74,74,74	0
54	MG	BA	3164	1/1	0.91	0.43	80,80,80,80	0
54	MG	CA	1637	1/1	0.91	0.19	121,121,121,121	0
54	MG	BA	3550	1/1	0.91	0.31	99,99,99,99	0
54	MG	BA	3333	1/1	0.91	0.42	99,99,99,99	0
54	MG	AA	1631	1/1	0.91	0.45	96,96,96,96	0
54	MG	DA	3175	1/1	0.91	0.16	101,101,101,101	0
54	MG	AA	1744	1/1	0.91	0.20	180,180,180,180	0
54	MG	DA	3303	1/1	0.91	0.36	140,140,140,140	0
54	MG	AA	1761	1/1	0.91	0.08	152,152,152,152	0
54	MG	BA	3523	1/1	0.91	0.20	64,64,64,64	0
54	MG	DA	3180	1/1	0.91	0.31	82,82,82,82	0
54	MG	CA	1768	1/1	0.91	0.11	106,106,106,106	0
54	MG	DA	3470	1/1	0.91	0.25	124,124,124,124	0
54	MG	DA	3311	1/1	0.91	0.16	92,92,92,92	0
54	MG	BA	3616	1/1	0.91	0.39	92,92,92,92	0
54	MG	BA	3309	1/1	0.91	0.36	84,84,84,84	0
54	MG	BA	3031	1/1	0.91	0.33	63,63,63,63	0
54	MG	AC	106	1/1	0.91	0.19	119,119,119,119	0
54	MG	BA	3436	1/1	0.91	0.26	118,118,118,118	0
54	MG	BA	3211	1/1	0.91	0.41	77,77,77,77	0
54	MG	AA	1621	1/1	0.91	0.44	147,147,147,147	0
54	MG	DA	3404	1/1	0.91	0.14	66,66,66,66	0
54	MG	DA	3323	1/1	0.91	0.12	79,79,79,79	0
54	MG	AA	1826	1/1	0.91	0.14	94,94,94,94	0
54	MG	CA	1726	1/1	0.91	0.27	111,111,111,111	0
54	MG	BA	3627	1/1	0.91	0.44	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3216	1/1	0.91	0.19	95,95,95,95	0
54	MG	DA	3488	1/1	0.91	0.52	105,105,105,105	0
54	MG	CA	1729	1/1	0.91	0.33	115,115,115,115	0
54	MG	CA	1730	1/1	0.91	0.41	121,121,121,121	0
54	MG	DA	3510	1/1	0.91	0.20	77,77,77,77	0
54	MG	DA	3234	1/1	0.91	0.30	92,92,92,92	0
54	MG	DA	3336	1/1	0.91	0.16	115,115,115,115	0
54	MG	AA	1747	1/1	0.91	0.11	159,159,159,159	0
54	MG	BA	3131	1/1	0.91	0.23	101,101,101,101	0
54	MG	BA	3445	1/1	0.91	0.17	156,156,156,156	0
54	MG	DA	3245	1/1	0.91	0.35	83,83,83,83	0
54	MG	CA	1615	1/1	0.91	0.25	106,106,106,106	0
54	MG	AA	1705	1/1	0.91	0.28	98,98,98,98	0
54	MG	DA	3521	1/1	0.91	0.08	111,111,111,111	0
54	MG	DA	3347	1/1	0.91	0.35	116,116,116,116	0
54	MG	BA	3474	1/1	0.91	0.31	102,102,102,102	0
54	MG	BA	3572	1/1	0.91	0.17	113,113,113,113	0
54	MG	DB	203	1/1	0.91	0.21	95,95,95,95	0
54	MG	BB	210	1/1	0.91	0.40	78,78,78,78	0
54	MG	DA	3131	1/1	0.91	0.17	94,94,94,94	0
54	MG	BA	3573	1/1	0.91	0.37	96,96,96,96	0
54	MG	DA	3257	1/1	0.91	0.32	88,88,88,88	0
54	MG	BA	3060	1/1	0.91	0.26	105,105,105,105	0
54	MG	DA	3141	1/1	0.91	0.22	85,85,85,85	0
54	MG	DA	3142	1/1	0.91	0.13	99,99,99,99	0
54	MG	DB	212	1/1	0.91	0.65	102,102,102,102	0
54	MG	BA	3256	1/1	0.91	0.28	68,68,68,68	0
54	MG	BA	3298	1/1	0.91	0.34	73,73,73,73	0
54	MG	BA	3261	1/1	0.91	0.14	90,90,90,90	0
54	MG	BA	3597	1/1	0.91	0.27	69,69,69,69	0
54	MG	DA	3155	1/1	0.91	0.13	80,80,80,80	0
54	MG	AA	1654	1/1	0.91	0.41	113,113,113,113	0
54	MG	DA	3052	1/1	0.91	0.35	120,120,120,120	0
54	MG	D1	201	1/1	0.91	0.19	87,87,87,87	0
54	MG	BA	3599	1/1	0.91	0.38	115,115,115,115	0
54	MG	AA	1819	1/1	0.91	0.23	81,81,81,81	0
55	TAC	AA	1833	32/32	0.91	0.18	99,129,142,143	0
54	MG	DA	3376	1/1	0.91	0.28	87,87,87,87	0
54	MG	AA	1697	1/1	0.92	0.45	143,143,143,143	0
54	MG	AA	1785	1/1	0.92	0.16	131,131,131,131	0
54	MG	AA	1756	1/1	0.92	0.25	86,86,86,86	0
54	MG	CA	1668	1/1	0.92	0.35	145,145,145,145	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	BA	3111	1/1	0.92	0.18	68,68,68,68	0
54	MG	BA	3288	1/1	0.92	0.61	100,100,100,100	0
54	MG	DA	3458	1/1	0.92	0.09	115,115,115,115	0
54	MG	DA	3459	1/1	0.92	0.24	108,108,108,108	0
54	MG	BA	3163	1/1	0.92	0.21	104,104,104,104	0
54	MG	CA	1677	1/1	0.92	0.17	114,114,114,114	0
54	MG	DA	3373	1/1	0.92	0.21	112,112,112,112	0
54	MG	DA	3152	1/1	0.92	0.18	112,112,112,112	0
54	MG	DA	3154	1/1	0.92	0.24	111,111,111,111	0
54	MG	BA	3290	1/1	0.92	0.26	78,78,78,78	0
54	MG	BA	3492	1/1	0.92	0.42	76,76,76,76	0
54	MG	BA	3533	1/1	0.92	0.62	106,106,106,106	0
54	MG	CA	1741	1/1	0.92	0.20	136,136,136,136	0
54	MG	BA	3356	1/1	0.92	0.22	128,128,128,128	0
54	MG	CA	1746	1/1	0.92	0.38	92,92,92,92	0
54	MG	BA	3423	1/1	0.92	0.59	89,89,89,89	0
54	MG	BA	3253	1/1	0.92	0.14	89,89,89,89	0
54	MG	BA	3048	1/1	0.92	0.13	70,70,70,70	0
54	MG	BA	3426	1/1	0.92	0.34	77,77,77,77	0
54	MG	DA	3063	1/1	0.92	0.23	76,76,76,76	0
54	MG	DA	3306	1/1	0.92	0.20	92,92,92,92	0
54	MG	BA	3499	1/1	0.92	0.14	103,103,103,103	0
54	MG	CA	1691	1/1	0.92	0.35	95,95,95,95	0
54	MG	BA	3586	1/1	0.92	0.39	62,62,62,62	0
54	MG	DA	3312	1/1	0.92	0.19	87,87,87,87	0
54	MG	BA	3293	1/1	0.92	0.39	77,77,77,77	0
54	MG	BA	3232	1/1	0.92	0.20	93,93,93,93	0
54	MG	DA	3188	1/1	0.92	0.38	69,69,69,69	0
54	MG	DA	3316	1/1	0.92	0.75	124,124,124,124	0
54	MG	DA	3489	1/1	0.92	0.24	98,98,98,98	0
54	MG	BA	3430	1/1	0.92	0.13	87,87,87,87	0
54	MG	DA	3193	1/1	0.92	0.16	69,69,69,69	0
54	MG	DA	3079	1/1	0.92	0.22	97,97,97,97	0
54	MG	BA	3050	1/1	0.92	0.47	75,75,75,75	0
54	MG	BA	3363	1/1	0.92	0.34	73,73,73,73	0
54	MG	BA	3264	1/1	0.92	0.43	75,75,75,75	0
54	MG	DA	3414	1/1	0.92	0.09	95,95,95,95	0
54	MG	CA	1634	1/1	0.92	0.14	110,110,110,110	0
54	MG	DA	3326	1/1	0.92	0.29	82,82,82,82	0
54	MG	DA	3005	1/1	0.92	0.23	86,86,86,86	0
54	MG	BA	3117	1/1	0.92	0.27	102,102,102,102	0
54	MG	DA	3420	1/1	0.92	0.11	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	AA	1665	1/1	0.92	0.26	84,84,84,84	0
54	MG	DA	3208	1/1	0.92	0.24	94,94,94,94	0
54	MG	DA	3524	1/1	0.92	0.50	86,86,86,86	0
54	MG	DA	3334	1/1	0.92	0.09	136,136,136,136	0
54	MG	DB	201	1/1	0.92	0.14	88,88,88,88	0
54	MG	AA	1788	1/1	0.92	0.29	124,124,124,124	0
54	MG	BA	3609	1/1	0.92	0.22	102,102,102,102	0
54	MG	DB	205	1/1	0.92	0.18	85,85,85,85	0
54	MG	AA	1615	1/1	0.92	0.21	95,95,95,95	0
54	MG	BA	3209	1/1	0.92	0.37	79,79,79,79	0
54	MG	DA	3429	1/1	0.92	0.24	97,97,97,97	0
54	MG	DA	3340	1/1	0.92	0.13	89,89,89,89	0
54	MG	B5	102	1/1	0.92	0.11	92,92,92,92	0
54	MG	BA	3304	1/1	0.92	0.27	90,90,90,90	0
54	MG	DA	3099	1/1	0.92	0.30	74,74,74,74	0
54	MG	DA	3020	1/1	0.92	0.10	62,62,62,62	0
54	MG	CA	1771	1/1	0.92	0.31	92,92,92,92	0
54	MG	BA	3277	1/1	0.92	0.15	97,97,97,97	0
54	MG	CA	1714	1/1	0.92	0.31	94,94,94,94	0
54	MG	DA	3025	1/1	0.92	0.35	88,88,88,88	0
54	MG	DA	3026	1/1	0.92	0.13	122,122,122,122	0
54	MG	BA	3556	1/1	0.92	0.14	91,91,91,91	0
54	MG	AA	1817	1/1	0.92	0.50	101,101,101,101	0
54	MG	DA	3357	1/1	0.92	0.19	105,105,105,105	0
54	MG	CA	1661	1/1	0.92	0.35	98,98,98,98	0
54	MG	DZ	102	1/1	0.92	0.14	88,88,88,88	0
54	MG	BA	3065	1/1	0.92	0.17	135,135,135,135	0
54	MG	AA	1630	1/1	0.92	0.26	105,105,105,105	0
54	MG	DA	3137	1/1	0.93	0.18	74,74,74,74	0
54	MG	BA	3284	1/1	0.93	0.12	121,121,121,121	0
54	MG	BA	3170	1/1	0.93	0.33	90,90,90,90	0
54	MG	DA	3457	1/1	0.93	0.14	102,102,102,102	0
54	MG	CA	1777	1/1	0.93	0.29	133,133,133,133	0
54	MG	BA	3114	1/1	0.93	0.44	83,83,83,83	0
54	MG	CA	1715	1/1	0.93	0.37	128,128,128,128	0
54	MG	CA	1655	1/1	0.93	0.43	125,125,125,125	0
54	MG	CA	1656	1/1	0.93	0.18	129,129,129,129	0
54	MG	CA	1782	1/1	0.93	0.38	98,98,98,98	0
54	MG	CA	1657	1/1	0.93	0.16	142,142,142,142	0
54	MG	BA	3350	1/1	0.93	1.22	115,115,115,115	0
54	MG	DA	3156	1/1	0.93	0.82	113,113,113,113	0
54	MG	A1	101	1/1	0.93	0.29	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3215	1/1	0.93	0.28	119,119,119,119	0
54	MG	DA	3160	1/1	0.93	0.44	84,84,84,84	0
54	MG	DA	3302	1/1	0.93	0.32	79,79,79,79	0
54	MG	CA	1788	1/1	0.93	0.37	87,87,87,87	0
54	MG	B7	103	1/1	0.93	0.16	88,88,88,88	0
54	MG	DA	3393	1/1	0.93	0.23	76,76,76,76	0
54	MG	AA	1822	1/1	0.93	0.10	144,144,144,144	0
54	MG	BA	3387	1/1	0.93	0.08	135,135,135,135	0
54	MG	AA	1661	1/1	0.93	0.36	94,94,94,94	0
54	MG	DA	3054	1/1	0.93	0.37	88,88,88,88	0
54	MG	BA	3621	1/1	0.93	0.32	66,66,66,66	0
54	MG	AA	1806	1/1	0.93	0.43	100,100,100,100	0
54	MG	CA	1732	1/1	0.93	0.28	144,144,144,144	0
54	MG	DA	3061	1/1	0.93	0.25	64,64,64,64	0
54	MG	BA	3623	1/1	0.93	0.21	86,86,86,86	0
54	MG	DA	3403	1/1	0.93	0.21	84,84,84,84	0
54	MG	BA	3123	1/1	0.93	0.34	73,73,73,73	0
54	MG	CA	1673	1/1	0.93	0.14	89,89,89,89	0
54	MG	AA	1767	1/1	0.93	0.37	100,100,100,100	0
54	MG	DA	3502	1/1	0.93	0.25	64,64,64,64	0
54	MG	DA	3503	1/1	0.93	0.76	105,105,105,105	0
54	MG	DA	3408	1/1	0.93	0.23	107,107,107,107	0
54	MG	DA	3409	1/1	0.93	0.33	132,132,132,132	0
54	MG	BA	3126	1/1	0.93	0.14	89,89,89,89	0
54	MG	DA	3070	1/1	0.93	0.31	76,76,76,76	0
54	MG	BA	3053	1/1	0.93	0.49	92,92,92,92	0
54	MG	DA	3413	1/1	0.93	0.63	115,115,115,115	0
54	MG	BA	3463	1/1	0.93	0.28	77,77,77,77	0
54	MG	BA	3020	1/1	0.93	0.22	109,109,109,109	0
54	MG	DA	3197	1/1	0.93	0.28	103,103,103,103	0
54	MG	BA	3268	1/1	0.93	0.28	87,87,87,87	0
54	MG	AA	1635	1/1	0.93	0.33	122,122,122,122	0
54	MG	BA	3574	1/1	0.93	0.36	60,60,60,60	0
54	MG	DA	3204	1/1	0.93	0.19	126,126,126,126	0
54	MG	BA	3433	1/1	0.93	0.15	107,107,107,107	0
54	MG	BA	3542	1/1	0.93	0.48	100,100,100,100	0
54	MG	DA	3001	1/1	0.93	0.23	83,83,83,83	0
54	MG	BA	3366	1/1	0.93	0.34	95,95,95,95	0
54	MG	CA	1689	1/1	0.93	0.42	122,122,122,122	0
54	MG	CA	1623	1/1	0.93	0.07	180,180,180,180	0
54	MG	CA	1692	1/1	0.93	0.22	104,104,104,104	0
54	MG	BA	3587	1/1	0.93	0.35	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	BA	3588	1/1	0.93	0.41	109,109,109,109	0
54	MG	BA	3592	1/1	0.93	0.28	112,112,112,112	0
54	MG	CA	1629	1/1	0.93	0.07	164,164,164,164	0
54	MG	BA	3203	1/1	0.93	0.39	86,86,86,86	0
54	MG	BB	216	1/1	0.93	0.24	111,111,111,111	0
54	MG	BA	3273	1/1	0.93	0.36	70,70,70,70	0
54	MG	DA	3249	1/1	0.93	0.33	65,65,65,65	0
54	MG	BA	3335	1/1	0.93	0.28	96,96,96,96	0
54	MG	BA	3027	1/1	0.93	0.25	69,69,69,69	0
54	MG	DA	3356	1/1	0.93	0.29	64,64,64,64	0
54	MG	AA	1632	1/1	0.93	0.34	116,116,116,116	0
54	MG	AA	1605	1/1	0.93	0.20	108,108,108,108	0
54	MG	BA	3604	1/1	0.93	0.23	97,97,97,97	0
54	MG	BA	3067	1/1	0.93	1.00	108,108,108,108	0
54	MG	CA	1708	1/1	0.93	0.26	143,143,143,143	0
54	MG	BA	3136	1/1	0.93	0.31	62,62,62,62	0
54	MG	DA	3134	1/1	0.93	0.11	105,105,105,105	0
54	MG	AA	1659	1/1	0.93	0.15	71,71,71,71	0
54	MG	CA	1722	1/1	0.94	0.10	109,109,109,109	0
54	MG	BU	202	1/1	0.94	0.20	80,80,80,80	0
54	MG	DA	3433	1/1	0.94	0.21	66,66,66,66	0
54	MG	BA	3603	1/1	0.94	1.34	113,113,113,113	0
54	MG	DA	3056	1/1	0.94	0.16	86,86,86,86	0
54	MG	AA	1781	1/1	0.94	0.47	120,120,120,120	0
54	MG	BA	3605	1/1	0.94	0.17	82,82,82,82	0
54	MG	AA	1619	1/1	0.94	0.18	96,96,96,96	0
54	MG	AA	1700	1/1	0.94	0.14	123,123,123,123	0
54	MG	DA	3062	1/1	0.94	0.32	112,112,112,112	0
54	MG	AA	1799	1/1	0.94	0.42	79,79,79,79	0
54	MG	DA	3065	1/1	0.94	0.28	103,103,103,103	0
54	MG	BA	3128	1/1	0.94	0.57	99,99,99,99	0
54	MG	DA	3337	1/1	0.94	0.16	88,88,88,88	0
54	MG	DA	3448	1/1	0.94	0.15	89,89,89,89	0
54	MG	BA	3416	1/1	0.94	0.18	70,70,70,70	0
54	MG	BA	3055	1/1	0.94	0.50	69,69,69,69	0
54	MG	AA	1679	1/1	0.94	0.28	105,105,105,105	0
54	MG	BA	3420	1/1	0.94	0.43	70,70,70,70	0
54	MG	CA	1737	1/1	0.94	0.38	97,97,97,97	0
54	MG	BA	3005	1/1	0.94	0.22	61,61,61,61	0
54	MG	DA	3202	1/1	0.94	0.26	88,88,88,88	0
54	MG	DA	3077	1/1	0.94	0.13	96,96,96,96	0
54	MG	DA	3078	1/1	0.94	0.10	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	CA	1739	1/1	0.94	0.24	112,112,112,112	0
54	MG	DA	3206	1/1	0.94	0.40	58,58,58,58	0
54	MG	CA	1674	1/1	0.94	0.68	117,117,117,117	0
54	MG	CA	1675	1/1	0.94	0.08	111,111,111,111	0
54	MG	CA	1606	1/1	0.94	0.39	100,100,100,100	0
54	MG	DA	3084	1/1	0.94	0.11	98,98,98,98	0
54	MG	AA	1702	1/1	0.94	0.35	77,77,77,77	0
54	MG	DA	3216	1/1	0.94	0.19	77,77,77,77	0
54	MG	AA	1746	1/1	0.94	0.16	92,92,92,92	0
54	MG	AA	1714	1/1	0.94	0.18	115,115,115,115	0
54	MG	BA	3512	1/1	0.94	0.23	97,97,97,97	0
54	MG	BA	3018	1/1	0.94	0.31	53,53,53,53	0
54	MG	BA	3270	1/1	0.94	0.20	87,87,87,87	0
54	MG	CA	1614	1/1	0.94	0.16	121,121,121,121	0
54	MG	DA	3246	1/1	0.94	0.09	103,103,103,103	0
54	MG	DA	3006	1/1	0.94	0.42	69,69,69,69	0
54	MG	DA	3476	1/1	0.94	0.44	99,99,99,99	0
54	MG	BA	3427	1/1	0.94	0.44	91,91,91,91	0
54	MG	CA	1686	1/1	0.94	0.41	79,79,79,79	0
54	MG	BA	3516	1/1	0.94	0.24	80,80,80,80	0
54	MG	DA	3251	1/1	0.94	0.16	91,91,91,91	0
54	MG	DA	3375	1/1	0.94	0.22	127,127,127,127	0
54	MG	AA	1610	1/1	0.94	0.31	71,71,71,71	0
54	MG	BA	3347	1/1	0.94	0.28	72,72,72,72	0
54	MG	DA	3254	1/1	0.94	0.40	74,74,74,74	0
54	MG	DA	3015	1/1	0.94	0.18	98,98,98,98	0
54	MG	BA	3272	1/1	0.94	0.29	52,52,52,52	0
54	MG	BA	3023	1/1	0.94	0.20	66,66,66,66	0
54	MG	DA	3107	1/1	0.94	0.23	100,100,100,100	0
54	MG	DA	3110	1/1	0.94	0.27	75,75,75,75	0
54	MG	DA	3498	1/1	0.94	0.10	106,106,106,106	0
54	MG	BA	3308	1/1	0.94	0.38	110,110,110,110	0
54	MG	DA	3388	1/1	0.94	0.08	152,152,152,152	0
54	MG	DA	3116	1/1	0.94	0.26	77,77,77,77	0
54	MG	DA	3019	1/1	0.94	0.24	84,84,84,84	0
54	MG	BA	3476	1/1	0.94	0.45	59,59,59,59	0
54	MG	DA	3274	1/1	0.94	0.22	83,83,83,83	0
54	MG	DA	3275	1/1	0.94	0.20	93,93,93,93	0
54	MG	DA	3514	1/1	0.94	0.13	71,71,71,71	0
54	MG	DA	3276	1/1	0.94	0.17	97,97,97,97	0
54	MG	CA	1624	1/1	0.94	0.32	129,129,129,129	0
54	MG	DA	3128	1/1	0.94	0.27	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	BA	3569	1/1	0.94	0.45	79,79,79,79	0
54	MG	DA	3284	1/1	0.94	0.28	100,100,100,100	0
54	MG	BA	3524	1/1	0.94	0.46	90,90,90,90	0
54	MG	DA	3133	1/1	0.94	0.18	74,74,74,74	0
54	MG	DA	3290	1/1	0.94	0.21	107,107,107,107	0
54	MG	BA	3274	1/1	0.94	0.47	93,93,93,93	0
54	MG	CA	1767	1/1	0.94	0.37	90,90,90,90	0
54	MG	AA	1760	1/1	0.94	0.20	122,122,122,122	0
54	MG	DA	3406	1/1	0.94	0.17	103,103,103,103	0
54	MG	AA	1681	1/1	0.94	0.11	146,146,146,146	0
54	MG	AA	1762	1/1	0.94	0.15	124,124,124,124	0
54	MG	CA	1703	1/1	0.94	0.11	93,93,93,93	0
54	MG	AC	103	1/1	0.94	0.41	75,75,75,75	0
54	MG	DA	3145	1/1	0.94	0.17	110,110,110,110	0
54	MG	DA	3146	1/1	0.94	0.51	87,87,87,87	0
54	MG	BA	3280	1/1	0.94	0.30	106,106,106,106	0
54	MG	BB	215	1/1	0.94	0.17	129,129,129,129	0
54	MG	DA	3150	1/1	0.94	0.42	96,96,96,96	0
54	MG	BA	3281	1/1	0.94	0.71	106,106,106,106	0
54	MG	BA	3238	1/1	0.94	0.38	112,112,112,112	0
54	MG	DA	3308	1/1	0.94	0.25	94,94,94,94	0
54	MG	BA	3151	1/1	0.94	0.28	103,103,103,103	0
54	MG	BA	3362	1/1	0.94	0.59	70,70,70,70	0
54	MG	BA	3078	1/1	0.94	0.32	106,106,106,106	0
54	MG	BA	3033	1/1	0.94	0.32	75,75,75,75	0
54	MG	DA	3043	1/1	0.94	0.21	106,106,106,106	0
54	MG	BA	3491	1/1	0.94	0.37	84,84,84,84	0
54	MG	BO	203	1/1	0.94	0.17	70,70,70,70	0
54	MG	AA	1827	1/1	0.94	0.17	82,82,82,82	0
54	MG	AA	1633	1/1	0.94	0.41	80,80,80,80	0
54	MG	AA	1667	1/1	0.94	0.37	88,88,88,88	0
54	MG	DA	3009	1/1	0.95	0.30	74,74,74,74	0
54	MG	BA	3047	1/1	0.95	0.23	64,64,64,64	0
54	MG	CA	1625	1/1	0.95	0.35	142,142,142,142	0
54	MG	AA	1703	1/1	0.95	0.23	87,87,87,87	0
54	MG	DA	3090	1/1	0.95	0.24	90,90,90,90	0
54	MG	DA	3091	1/1	0.95	0.15	87,87,87,87	0
54	MG	AA	1804	1/1	0.95	0.11	130,130,130,130	0
54	MG	DA	3442	1/1	0.95	0.13	112,112,112,112	0
54	MG	BA	3120	1/1	0.95	0.51	97,97,97,97	0
54	MG	BA	3529	1/1	0.95	0.29	89,89,89,89	0
54	MG	BA	3580	1/1	0.95	0.34	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3210	1/1	0.95	0.24	63,63,63,63	0
54	MG	DA	3342	1/1	0.95	0.26	114,114,114,114	0
54	MG	BA	3051	1/1	0.95	0.22	72,72,72,72	0
54	MG	DA	3213	1/1	0.95	0.26	67,67,67,67	0
54	MG	BE	301	1/1	0.95	0.29	61,61,61,61	0
54	MG	BA	3391	1/1	0.95	0.22	103,103,103,103	0
54	MG	DA	3227	1/1	0.95	0.23	83,83,83,83	0
54	MG	BA	3435	1/1	0.95	0.10	109,109,109,109	0
54	MG	DA	3350	1/1	0.95	0.30	82,82,82,82	0
54	MG	DA	3023	1/1	0.95	0.27	86,86,86,86	0
54	MG	AA	1648	1/1	0.95	0.28	123,123,123,123	0
54	MG	DA	3353	1/1	0.95	0.43	108,108,108,108	0
54	MG	DA	3105	1/1	0.95	0.16	110,110,110,110	0
54	MG	BA	3019	1/1	0.95	0.29	49,49,49,49	0
54	MG	BA	3394	1/1	0.95	0.45	85,85,85,85	0
54	MG	BA	3596	1/1	0.95	0.38	88,88,88,88	0
54	MG	DA	3112	1/1	0.95	0.26	71,71,71,71	0
54	MG	CA	1709	1/1	0.95	0.35	110,110,110,110	0
54	MG	AA	1818	1/1	0.95	0.21	156,156,156,156	0
54	MG	DA	3364	1/1	0.95	0.16	112,112,112,112	0
54	MG	BA	3021	1/1	0.95	0.43	72,72,72,72	0
54	MG	DA	3467	1/1	0.95	0.10	159,159,159,159	0
54	MG	B1	201	1/1	0.95	0.28	61,61,61,61	0
54	MG	AA	1655	1/1	0.95	0.46	106,106,106,106	0
54	MG	AA	1626	1/1	0.95	0.22	80,80,80,80	0
54	MG	DA	3035	1/1	0.95	0.13	93,93,93,93	0
54	MG	BU	201	1/1	0.95	0.12	105,105,105,105	0
54	MG	BA	3444	1/1	0.95	0.07	186,186,186,186	0
54	MG	BA	3064	1/1	0.95	0.24	113,113,113,113	0
54	MG	BA	3316	1/1	0.95	0.30	82,82,82,82	0
54	MG	DA	3259	1/1	0.95	0.38	76,76,76,76	0
54	MG	DA	3136	1/1	0.95	0.26	64,64,64,64	0
54	MG	CA	1783	1/1	0.95	0.41	97,97,97,97	0
54	MG	CA	1720	1/1	0.95	0.30	98,98,98,98	0
54	MG	DA	3271	1/1	0.95	0.26	62,62,62,62	0
54	MG	DA	3140	1/1	0.95	0.14	74,74,74,74	0
54	MG	BZ	101	1/1	0.95	0.22	69,69,69,69	0
54	MG	BA	3025	1/1	0.95	0.38	65,65,65,65	0
54	MG	DA	3384	1/1	0.95	0.09	77,77,77,77	0
54	MG	BA	3402	1/1	0.95	0.18	81,81,81,81	0
54	MG	AA	1607	1/1	0.95	0.39	99,99,99,99	0
54	MG	BA	3179	1/1	0.95	0.66	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	DA	3490	1/1	0.95	0.09	120,120,120,120	0
54	MG	CA	1665	1/1	0.95	0.46	103,103,103,103	0
54	MG	DA	3493	1/1	0.95	0.14	64,64,64,64	0
54	MG	DA	3389	1/1	0.95	0.19	94,94,94,94	0
54	MG	DA	3282	1/1	0.95	0.18	88,88,88,88	0
54	MG	DA	3049	1/1	0.95	0.10	105,105,105,105	0
54	MG	DA	3050	1/1	0.95	0.12	108,108,108,108	0
54	MG	AH	201	1/1	0.95	0.15	118,118,118,118	0
54	MG	DA	3286	1/1	0.95	0.50	115,115,115,115	0
54	MG	DA	3288	1/1	0.95	0.24	95,95,95,95	0
54	MG	BA	3364	1/1	0.95	0.25	137,137,137,137	0
54	MG	AA	1673	1/1	0.95	0.16	133,133,133,133	0
54	MG	DA	3515	1/1	0.95	0.12	94,94,94,94	0
54	MG	CA	1670	1/1	0.95	0.22	91,91,91,91	0
54	MG	BA	3409	1/1	0.95	0.44	86,86,86,86	0
54	MG	BA	3032	1/1	0.95	0.29	69,69,69,69	0
54	MG	DA	3294	1/1	0.95	0.33	64,64,64,64	0
54	MG	BA	3186	1/1	0.95	0.28	62,62,62,62	0
54	MG	BA	3240	1/1	0.95	0.52	93,93,93,93	0
54	MG	CA	1607	1/1	0.95	0.43	83,83,83,83	0
54	MG	BA	3106	1/1	0.95	0.27	52,52,52,52	0
54	MG	CG	302	1/1	0.95	0.40	180,180,180,180	0
54	MG	BA	3138	1/1	0.95	0.22	81,81,81,81	0
54	MG	DA	3165	1/1	0.95	0.20	59,59,59,59	0
54	MG	AA	1780	1/1	0.95	0.08	154,154,154,154	0
54	MG	CA	1743	1/1	0.95	0.36	117,117,117,117	0
54	MG	BA	3072	1/1	0.95	0.42	87,87,87,87	0
54	MG	BA	3462	1/1	0.95	0.43	113,113,113,113	0
54	MG	BA	3142	1/1	0.95	0.47	48,48,48,48	0
54	MG	BA	3145	1/1	0.95	0.40	83,83,83,83	0
54	MG	DA	3076	1/1	0.95	0.28	75,75,75,75	0
54	MG	BA	3199	1/1	0.95	0.08	78,78,78,78	0
54	MG	BA	3202	1/1	0.95	0.27	65,65,65,65	0
54	MG	DA	3185	1/1	0.95	0.21	66,66,66,66	0
54	MG	DA	3186	1/1	0.95	0.15	60,60,60,60	0
54	MG	DA	3187	1/1	0.95	0.21	70,70,70,70	0
54	MG	AA	1608	1/1	0.95	0.14	111,111,111,111	0
54	MG	DA	3319	1/1	0.95	0.17	77,77,77,77	0
54	MG	DA	3190	1/1	0.95	0.38	80,80,80,80	0
54	MG	DE	303	1/1	0.95	0.19	70,70,70,70	0
54	MG	BA	3042	1/1	0.95	0.17	94,94,94,94	0
54	MG	DA	3426	1/1	0.95	0.15	159,159,159,159	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3192	1/1	0.95	0.22	64,64,64,64	0
54	MG	AA	1736	1/1	0.95	0.12	122,122,122,122	0
54	MG	DA	3082	1/1	0.95	0.12	99,99,99,99	0
54	MG	BA	3381	1/1	0.95	0.53	65,65,65,65	0
54	MG	AA	1814	1/1	0.95	0.11	152,152,152,152	0
54	MG	BA	3115	1/1	0.95	0.37	68,68,68,68	0
56	ZN	CG	303	1/1	0.95	0.18	161,161,161,161	0
56	ZN	CQ	101	1/1	0.95	0.07	188,188,188,188	0
54	MG	BA	3555	1/1	0.96	0.20	67,67,67,67	0
54	MG	DA	3102	1/1	0.96	0.11	150,150,150,150	0
54	MG	DA	3439	1/1	0.96	0.07	84,84,84,84	0
54	MG	BA	3113	1/1	0.96	0.14	72,72,72,72	0
54	MG	BA	3146	1/1	0.96	0.47	82,82,82,82	0
54	MG	DA	3211	1/1	0.96	0.23	71,71,71,71	0
54	MG	BA	3080	1/1	0.96	0.19	125,125,125,125	0
54	MG	AA	1677	1/1	0.96	0.30	125,125,125,125	0
54	MG	BA	3193	1/1	0.96	0.45	76,76,76,76	0
54	MG	AA	1613	1/1	0.96	0.17	144,144,144,144	0
54	MG	DA	3217	1/1	0.96	0.23	89,89,89,89	0
54	MG	DA	3223	1/1	0.96	0.26	54,54,54,54	0
54	MG	DA	3224	1/1	0.96	0.16	61,61,61,61	0
54	MG	DA	3226	1/1	0.96	0.26	81,81,81,81	0
54	MG	BB	202	1/1	0.96	0.24	92,92,92,92	0
54	MG	DA	3229	1/1	0.96	0.27	94,94,94,94	0
54	MG	DA	3230	1/1	0.96	0.30	65,65,65,65	0
54	MG	AA	1627	1/1	0.96	0.32	87,87,87,87	0
54	MG	DA	3115	1/1	0.96	0.23	75,75,75,75	0
54	MG	AA	1606	1/1	0.96	0.09	155,155,155,155	0
54	MG	DA	3238	1/1	0.96	0.12	117,117,117,117	0
54	MG	DA	3117	1/1	0.96	0.27	72,72,72,72	0
54	MG	DA	3118	1/1	0.96	0.21	61,61,61,61	0
54	MG	DA	3241	1/1	0.96	0.24	69,69,69,69	0
54	MG	DA	3244	1/1	0.96	0.19	84,84,84,84	0
54	MG	DA	3119	1/1	0.96	0.32	65,65,65,65	0
54	MG	CA	1697	1/1	0.96	0.17	185,185,185,185	0
54	MG	DA	3122	1/1	0.96	0.28	67,67,67,67	0
54	MG	AA	1638	1/1	0.96	0.38	104,104,104,104	0
54	MG	BA	3061	1/1	0.96	0.42	64,64,64,64	0
54	MG	BA	3417	1/1	0.96	0.23	78,78,78,78	0
54	MG	AC	101	1/1	0.96	0.16	78,78,78,78	0
54	MG	DA	3130	1/1	0.96	0.32	92,92,92,92	0
54	MG	BA	3375	1/1	0.96	0.50	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3013	1/1	0.96	0.24	63,63,63,63	0
54	MG	DA	3473	1/1	0.96	0.13	157,157,157,157	0
54	MG	BA	3037	1/1	0.96	0.44	71,71,71,71	0
54	MG	BA	3520	1/1	0.96	0.41	129,129,129,129	0
54	MG	BA	3039	1/1	0.96	0.37	98,98,98,98	0
54	MG	BA	3338	1/1	0.96	0.26	103,103,103,103	0
54	MG	CA	1635	1/1	0.96	0.29	78,78,78,78	0
54	MG	BA	3040	1/1	0.96	0.25	88,88,88,88	0
54	MG	BA	3260	1/1	0.96	0.20	126,126,126,126	0
54	MG	DA	3268	1/1	0.96	0.14	63,63,63,63	0
54	MG	DA	3379	1/1	0.96	0.46	64,64,64,64	0
54	MG	BA	3382	1/1	0.96	0.48	78,78,78,78	0
54	MG	CA	1640	1/1	0.96	0.29	92,92,92,92	0
54	MG	BA	3578	1/1	0.96	0.17	88,88,88,88	0
54	MG	BA	3579	1/1	0.96	0.45	85,85,85,85	0
54	MG	CA	1643	1/1	0.96	0.07	148,148,148,148	0
54	MG	BA	3341	1/1	0.96	0.36	71,71,71,71	0
54	MG	BA	3583	1/1	0.96	0.28	59,59,59,59	0
54	MG	BO	201	1/1	0.96	0.15	90,90,90,90	0
54	MG	CA	1719	1/1	0.96	0.12	116,116,116,116	0
54	MG	DA	3494	1/1	0.96	0.33	45,45,45,45	0
54	MG	DA	3153	1/1	0.96	0.12	145,145,145,145	0
54	MG	CA	1648	1/1	0.96	0.13	96,96,96,96	0
54	MG	BA	3068	1/1	0.96	0.19	71,71,71,71	0
54	MG	DA	3508	1/1	0.96	0.26	68,68,68,68	0
54	MG	DA	3059	1/1	0.96	0.22	68,68,68,68	0
54	MG	CA	1795	1/1	0.96	0.23	112,112,112,112	0
54	MG	DA	3287	1/1	0.96	0.23	67,67,67,67	0
54	MG	CA	1652	1/1	0.96	0.41	120,120,120,120	0
54	MG	CA	1654	1/1	0.96	0.18	128,128,128,128	0
54	MG	BA	3165	1/1	0.96	0.17	119,119,119,119	0
54	MG	DA	3064	1/1	0.96	0.28	79,79,79,79	0
54	MG	BA	3386	1/1	0.96	0.15	117,117,117,117	0
54	MG	CA	1800	1/1	0.96	0.12	145,145,145,145	0
54	MG	CA	1801	1/1	0.96	0.23	139,139,139,139	0
54	MG	AA	1755	1/1	0.96	0.20	143,143,143,143	0
54	MG	BA	3531	1/1	0.96	0.38	101,101,101,101	0
54	MG	AA	1808	1/1	0.96	0.15	139,139,139,139	0
54	MG	CA	1660	1/1	0.96	0.14	118,118,118,118	0
54	MG	BA	3168	1/1	0.96	0.34	52,52,52,52	0
54	MG	BA	3434	1/1	0.96	0.62	107,107,107,107	0
54	MG	BA	3305	1/1	0.96	0.32	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	DA	3179	1/1	0.96	0.18	85,85,85,85	0
54	MG	BA	3349	1/1	0.96	0.48	69,69,69,69	0
54	MG	BA	3044	1/1	0.96	0.16	58,58,58,58	0
54	MG	BA	3602	1/1	0.96	0.50	66,66,66,66	0
54	MG	BA	3438	1/1	0.96	0.43	62,62,62,62	0
54	MG	DA	3309	1/1	0.96	0.07	145,145,145,145	0
54	MG	BA	3487	1/1	0.96	0.06	116,116,116,116	0
54	MG	BA	3103	1/1	0.96	0.21	93,93,93,93	0
54	MG	DA	3418	1/1	0.96	0.35	61,61,61,61	0
54	MG	BA	3352	1/1	0.96	0.35	87,87,87,87	0
54	MG	CA	1744	1/1	0.96	0.33	97,97,97,97	0
54	MG	BA	3223	1/1	0.96	0.46	84,84,84,84	0
54	MG	BA	3171	1/1	0.96	0.26	87,87,87,87	0
54	MG	BA	3172	1/1	0.96	0.24	93,93,93,93	0
54	MG	DA	3317	1/1	0.96	0.46	131,131,131,131	0
54	MG	BA	3610	1/1	0.96	0.14	85,85,85,85	0
54	MG	BA	3105	1/1	0.96	0.23	68,68,68,68	0
54	MG	BA	3045	1/1	0.96	0.43	66,66,66,66	0
54	MG	BA	3313	1/1	0.96	0.26	61,61,61,61	0
54	MG	DA	3199	1/1	0.96	0.14	77,77,77,77	0
54	MG	AA	1644	1/1	0.96	0.26	72,72,72,72	0
54	MG	DA	3201	1/1	0.96	0.29	73,73,73,73	0
54	MG	AA	1777	1/1	0.96	0.05	141,141,141,141	0
54	MG	AA	1650	1/1	0.96	0.26	85,85,85,85	0
54	MG	BA	3500	1/1	0.96	0.19	129,129,129,129	0
56	ZN	AG	303	1/1	0.96	0.25	153,153,153,153	0
54	MG	AA	1823	1/1	0.96	0.11	138,138,138,138	0
54	MG	AA	1660	1/1	0.96	0.14	126,126,126,126	0
54	MG	BA	3257	1/1	0.97	0.30	70,70,70,70	0
54	MG	BA	3258	1/1	0.97	0.45	74,74,74,74	0
54	MG	DA	3228	1/1	0.97	0.08	80,80,80,80	0
54	MG	BA	3408	1/1	0.97	0.13	109,109,109,109	0
54	MG	BA	3015	1/1	0.97	0.25	61,61,61,61	0
54	MG	DA	3231	1/1	0.97	0.23	74,74,74,74	0
54	MG	DA	3232	1/1	0.97	0.24	78,78,78,78	0
54	MG	BA	3035	1/1	0.97	0.26	70,70,70,70	0
54	MG	BA	3263	1/1	0.97	0.35	50,50,50,50	0
54	MG	BA	3141	1/1	0.97	0.23	63,63,63,63	0
54	MG	DA	3236	1/1	0.97	0.28	60,60,60,60	0
54	MG	DA	3132	1/1	0.97	0.22	78,78,78,78	0
54	MG	BA	3057	1/1	0.97	0.35	93,93,93,93	0
54	MG	BA	3058	1/1	0.97	0.26	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	BA	3036	1/1	0.97	0.25	63,63,63,63	0
54	MG	BA	3218	1/1	0.97	0.36	75,75,75,75	0
54	MG	BA	3577	1/1	0.97	0.31	61,61,61,61	0
54	MG	BA	3220	1/1	0.97	0.23	76,76,76,76	0
54	MG	DA	3139	1/1	0.97	0.27	67,67,67,67	0
54	MG	BA	3181	1/1	0.97	0.26	79,79,79,79	0
54	MG	BA	3225	1/1	0.97	0.54	92,92,92,92	0
54	MG	BA	3581	1/1	0.97	0.32	82,82,82,82	0
54	MG	DA	3143	1/1	0.97	0.10	117,117,117,117	0
54	MG	DA	3053	1/1	0.97	0.31	100,100,100,100	0
54	MG	BA	3016	1/1	0.97	0.06	143,143,143,143	0
54	MG	BA	3584	1/1	0.97	0.36	100,100,100,100	0
54	MG	BA	3585	1/1	0.97	0.21	62,62,62,62	0
54	MG	BA	3471	1/1	0.97	0.46	91,91,91,91	0
54	MG	CA	1651	1/1	0.97	0.22	116,116,116,116	0
54	MG	BA	3227	1/1	0.97	0.31	82,82,82,82	0
54	MG	BA	3473	1/1	0.97	0.41	82,82,82,82	0
54	MG	BA	3590	1/1	0.97	0.52	116,116,116,116	0
54	MG	DA	3261	1/1	0.97	0.15	78,78,78,78	0
54	MG	BA	3038	1/1	0.97	0.30	67,67,67,67	0
54	MG	BA	3593	1/1	0.97	0.37	57,57,57,57	0
54	MG	DA	3477	1/1	0.97	0.23	93,93,93,93	0
54	MG	BA	3229	1/1	0.97	0.32	89,89,89,89	0
54	MG	AA	1713	1/1	0.97	0.14	107,107,107,107	0
54	MG	AA	1720	1/1	0.97	0.17	101,101,101,101	0
54	MG	DA	3159	1/1	0.97	0.10	128,128,128,128	0
54	MG	BA	3187	1/1	0.97	0.34	56,56,56,56	0
54	MG	BA	3327	1/1	0.97	0.21	117,117,117,117	0
54	MG	DA	3383	1/1	0.97	0.37	84,84,84,84	0
54	MG	B5	101	1/1	0.97	0.16	61,61,61,61	0
54	MG	DA	3277	1/1	0.97	0.34	77,77,77,77	0
54	MG	DA	3278	1/1	0.97	0.10	80,80,80,80	0
54	MG	CA	1733	1/1	0.97	0.35	124,124,124,124	0
54	MG	DA	3072	1/1	0.97	0.31	94,94,94,94	0
54	MG	DA	3073	1/1	0.97	0.11	102,102,102,102	0
54	MG	DA	3491	1/1	0.97	0.32	65,65,65,65	0
54	MG	BA	3041	1/1	0.97	0.07	142,142,142,142	0
54	MG	DA	3170	1/1	0.97	0.29	80,80,80,80	0
54	MG	DA	3171	1/1	0.97	0.35	87,87,87,87	0
54	MG	DA	3496	1/1	0.97	0.14	72,72,72,72	0
54	MG	BA	3330	1/1	0.97	0.21	102,102,102,102	0
54	MG	BA	3331	1/1	0.97	0.43	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3174	1/1	0.97	0.16	81,81,81,81	0
54	MG	DA	3505	1/1	0.97	0.13	72,72,72,72	0
54	MG	DA	3506	1/1	0.97	0.28	61,61,61,61	0
54	MG	DA	3507	1/1	0.97	0.19	79,79,79,79	0
54	MG	AA	1695	1/1	0.97	0.07	152,152,152,152	0
54	MG	AA	1774	1/1	0.97	0.20	72,72,72,72	0
54	MG	CA	1669	1/1	0.97	0.14	130,130,130,130	0
54	MG	AA	1737	1/1	0.97	0.39	132,132,132,132	0
54	MG	CA	1742	1/1	0.97	0.35	98,98,98,98	0
54	MG	BA	3098	1/1	0.97	0.43	75,75,75,75	0
54	MG	BA	3158	1/1	0.97	0.52	67,67,67,67	0
54	MG	CA	1603	1/1	0.97	0.56	93,93,93,93	0
54	MG	BA	3239	1/1	0.97	0.39	82,82,82,82	0
54	MG	AA	1620	1/1	0.97	0.24	105,105,105,105	0
54	MG	AA	1798	1/1	0.97	0.42	100,100,100,100	0
54	MG	BA	3200	1/1	0.97	0.12	149,149,149,149	0
54	MG	CA	1678	1/1	0.97	0.07	140,140,140,140	0
54	MG	BA	3244	1/1	0.97	0.10	112,112,112,112	0
54	MG	BA	3613	1/1	0.97	0.09	111,111,111,111	0
54	MG	DA	3014	1/1	0.97	0.39	69,69,69,69	0
54	MG	BA	3201	1/1	0.97	0.18	122,122,122,122	0
54	MG	BA	3162	1/1	0.97	0.27	72,72,72,72	0
54	MG	AA	1609	1/1	0.97	0.39	87,87,87,87	0
54	MG	DB	202	1/1	0.97	0.11	113,113,113,113	0
54	MG	BA	3295	1/1	0.97	0.43	70,70,70,70	0
54	MG	BA	3346	1/1	0.97	0.28	112,112,112,112	0
54	MG	BA	3028	1/1	0.97	0.36	57,57,57,57	0
54	MG	CA	1759	1/1	0.97	0.09	157,157,157,157	0
54	MG	BA	3620	1/1	0.97	0.14	72,72,72,72	0
54	MG	CA	1617	1/1	0.97	0.23	140,140,140,140	0
54	MG	BA	3502	1/1	0.97	0.52	90,90,90,90	0
54	MG	CA	1690	1/1	0.97	0.22	102,102,102,102	0
54	MG	BA	3297	1/1	0.97	0.40	78,78,78,78	0
54	MG	DA	3108	1/1	0.97	0.26	67,67,67,67	0
54	MG	DA	3109	1/1	0.97	0.26	63,63,63,63	0
54	MG	AA	1731	1/1	0.97	0.54	90,90,90,90	0
54	MG	BA	3012	1/1	0.97	0.21	70,70,70,70	0
54	MG	AA	1717	1/1	0.97	0.07	137,137,137,137	0
54	MG	DA	3030	1/1	0.97	0.28	89,89,89,89	0
54	MG	BA	3252	1/1	0.97	0.28	70,70,70,70	0
54	MG	DA	3214	1/1	0.97	0.22	63,63,63,63	0
54	MG	DA	3328	1/1	0.97	0.04	138,138,138,138	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	AA	1666	1/1	0.97	0.09	123,123,123,123	0
54	MG	BA	3254	1/1	0.97	0.31	70,70,70,70	0
54	MG	BA	3054	1/1	0.97	0.41	91,91,91,91	0
54	MG	DA	3218	1/1	0.97	0.35	77,77,77,77	0
54	MG	D5	101	1/1	0.97	0.10	63,63,63,63	0
54	MG	DA	3219	1/1	0.97	0.28	71,71,71,71	0
54	MG	DA	3221	1/1	0.97	0.27	61,61,61,61	0
54	MG	DA	3120	1/1	0.97	0.15	75,75,75,75	0
54	MG	DA	3440	1/1	0.97	0.42	83,83,83,83	0
54	MG	BA	3210	1/1	0.97	0.52	78,78,78,78	0
54	MG	CA	1653	1/1	0.98	0.28	122,122,122,122	0
54	MG	DA	3281	1/1	0.98	0.24	74,74,74,74	0
54	MG	AA	1768	1/1	0.98	0.13	126,126,126,126	0
54	MG	BA	3081	1/1	0.98	0.26	88,88,88,88	0
54	MG	AA	1624	1/1	0.98	0.12	98,98,98,98	0
54	MG	BA	3083	1/1	0.98	0.29	108,108,108,108	0
54	MG	BA	3243	1/1	0.98	0.49	122,122,122,122	0
54	MG	BA	3017	1/1	0.98	0.27	67,67,67,67	0
54	MG	DA	3039	1/1	0.98	0.48	116,116,116,116	0
54	MG	BA	3501	1/1	0.98	0.40	99,99,99,99	0
54	MG	BA	3197	1/1	0.98	0.20	66,66,66,66	0
54	MG	BA	3059	1/1	0.98	0.09	144,144,144,144	0
54	MG	AA	1706	1/1	0.98	0.06	134,134,134,134	0
54	MG	BA	3087	1/1	0.98	0.05	142,142,142,142	0
54	MG	CA	1791	1/1	0.98	0.30	78,78,78,78	0
54	MG	BA	3121	1/1	0.98	0.29	87,87,87,87	0
54	MG	BA	3157	1/1	0.98	0.36	74,74,74,74	0
54	MG	DA	3297	1/1	0.98	0.14	71,71,71,71	0
54	MG	DA	3298	1/1	0.98	0.07	96,96,96,96	0
54	MG	AA	1698	1/1	0.98	0.33	132,132,132,132	0
54	MG	DA	3126	1/1	0.98	0.09	58,58,58,58	0
54	MG	DA	3127	1/1	0.98	0.23	66,66,66,66	0
54	MG	BA	3159	1/1	0.98	0.23	101,101,101,101	0
54	MG	BA	3062	1/1	0.98	0.27	70,70,70,70	0
54	MG	BA	3002	1/1	0.98	0.39	63,63,63,63	0
54	MG	CA	1734	1/1	0.98	0.09	93,93,93,93	0
54	MG	BA	3125	1/1	0.98	0.32	88,88,88,88	0
54	MG	BA	3003	1/1	0.98	0.30	78,78,78,78	0
54	MG	BA	3022	1/1	0.98	0.43	65,65,65,65	0
54	MG	CA	1802	1/1	0.98	0.39	136,136,136,136	0
54	MG	BA	3004	1/1	0.98	0.30	79,79,79,79	0
54	MG	BA	3259	1/1	0.98	0.29	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
54	MG	AA	1653	1/1	0.98	0.21	91,91,91,91	0
54	MG	DA	3220	1/1	0.98	0.24	70,70,70,70	0
54	MG	BA	3213	1/1	0.98	0.26	69,69,69,69	0
54	MG	DA	3222	1/1	0.98	0.27	62,62,62,62	0
54	MG	DA	3500	1/1	0.98	0.12	88,88,88,88	0
54	MG	DA	3501	1/1	0.98	0.24	73,73,73,73	0
54	MG	BA	3262	1/1	0.98	0.37	63,63,63,63	0
54	MG	BA	3130	1/1	0.98	0.09	92,92,92,92	0
54	MG	DA	3225	1/1	0.98	0.12	89,89,89,89	0
54	MG	BB	203	1/1	0.98	0.41	73,73,73,73	0
54	MG	CC	102	1/1	0.98	0.18	83,83,83,83	0
54	MG	BA	3006	1/1	0.98	0.22	50,50,50,50	0
54	MG	BA	3315	1/1	0.98	0.34	91,91,91,91	0
54	MG	CC	105	1/1	0.98	0.21	125,125,125,125	0
54	MG	BA	3026	1/1	0.98	0.21	66,66,66,66	0
54	MG	BA	3007	1/1	0.98	0.20	63,63,63,63	0
54	MG	BA	3009	1/1	0.98	0.24	53,53,53,53	0
54	MG	BA	3101	1/1	0.98	0.42	58,58,58,58	0
54	MG	BA	3221	1/1	0.98	0.34	89,89,89,89	0
54	MG	DA	3003	1/1	0.98	0.32	130,130,130,130	0
54	MG	BA	3222	1/1	0.98	0.36	57,57,57,57	0
54	MG	BA	3582	1/1	0.98	0.25	68,68,68,68	0
54	MG	BA	3173	1/1	0.98	0.31	62,62,62,62	0
54	MG	BA	3224	1/1	0.98	0.31	101,101,101,101	0
54	MG	DA	3242	1/1	0.98	0.34	64,64,64,64	0
54	MG	DA	3243	1/1	0.98	0.18	86,86,86,86	0
54	MG	BA	3174	1/1	0.98	0.18	61,61,61,61	0
54	MG	BA	3029	1/1	0.98	0.29	74,74,74,74	0
54	MG	BB	217	1/1	0.98	0.10	132,132,132,132	0
54	MG	BA	3276	1/1	0.98	0.27	90,90,90,90	0
54	MG	AA	1602	1/1	0.98	0.24	95,95,95,95	0
54	MG	DA	3013	1/1	0.98	0.25	69,69,69,69	0
54	MG	BA	3589	1/1	0.98	0.31	77,77,77,77	0
54	MG	BA	3328	1/1	0.98	0.22	119,119,119,119	0
54	MG	DA	3166	1/1	0.98	0.29	65,65,65,65	0
54	MG	BA	3074	1/1	0.98	0.12	142,142,142,142	0
54	MG	DA	3169	1/1	0.98	0.36	76,76,76,76	0
54	MG	BA	3180	1/1	0.98	0.53	73,73,73,73	0
54	MG	CA	1639	1/1	0.98	0.34	129,129,129,129	0
54	MG	BF	302	1/1	0.98	0.40	127,127,127,127	0
54	MG	AA	1604	1/1	0.98	0.11	135,135,135,135	0
54	MG	BA	3076	1/1	0.98	0.09	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	AA	1656	1/1	0.98	0.24	71,71,71,71	0
54	MG	BA	3184	1/1	0.98	0.21	70,70,70,70	0
54	MG	DA	3097	1/1	0.98	0.39	74,74,74,74	0
54	MG	DA	3358	1/1	0.98	0.37	73,73,73,73	0
54	MG	BA	3109	1/1	0.98	0.46	94,94,94,94	0
54	MG	CA	1646	1/1	0.98	0.22	101,101,101,101	0
54	MG	DA	3361	1/1	0.98	0.27	93,93,93,93	0
54	MG	BA	3143	1/1	0.98	0.41	52,52,52,52	0
54	MG	DA	3363	1/1	0.98	0.05	125,125,125,125	0
54	MG	DA	3181	1/1	0.98	0.18	74,74,74,74	0
54	MG	DA	3182	1/1	0.98	0.28	62,62,62,62	0
54	MG	BA	3144	1/1	0.98	0.41	73,73,73,73	0
54	MG	CA	1649	1/1	0.98	0.22	113,113,113,113	0
54	MG	BA	3601	1/1	0.98	0.49	52,52,52,52	0
54	MG	AA	1663	1/1	0.98	0.13	76,76,76,76	0
56	ZN	AQ	103	1/1	0.98	0.09	186,186,186,186	0
54	MG	AA	1682	1/1	0.98	0.12	113,113,113,113	0
54	MG	DA	3189	1/1	0.98	0.27	65,65,65,65	0
54	MG	DA	3263	1/1	0.99	0.14	129,129,129,129	0
54	MG	DA	3264	1/1	0.99	0.28	80,80,80,80	0
54	MG	DA	3055	1/1	0.99	0.28	59,59,59,59	0
54	MG	DA	3266	1/1	0.99	0.13	110,110,110,110	0
54	MG	DA	3267	1/1	0.99	0.14	79,79,79,79	0
54	MG	AA	1657	1/1	0.99	0.43	63,63,63,63	0
54	MG	DA	3167	1/1	0.99	0.07	75,75,75,75	0
54	MG	DA	3270	1/1	0.99	0.20	63,63,63,63	0
54	MG	BA	3147	1/1	0.99	0.36	64,64,64,64	0
54	MG	BA	3198	1/1	0.99	0.36	70,70,70,70	0
54	MG	BA	3099	1/1	0.99	0.42	74,74,74,74	0
54	MG	DA	3111	1/1	0.99	0.18	64,64,64,64	0
54	MG	BA	3267	1/1	0.99	0.07	126,126,126,126	0
54	MG	DA	3237	1/1	0.99	0.11	63,63,63,63	0
54	MG	BA	3118	1/1	0.99	0.41	90,90,90,90	0
54	MG	DA	3114	1/1	0.99	0.21	82,82,82,82	0
54	MG	AA	1601	1/1	0.99	0.27	80,80,80,80	0
54	MG	AA	1783	1/1	0.99	0.13	125,125,125,125	0
54	MG	BA	3219	1/1	0.99	0.13	123,123,123,123	0
54	MG	DA	3147	1/1	0.99	0.33	82,82,82,82	0
54	MG	BA	3591	1/1	0.99	0.46	57,57,57,57	0
54	MG	BA	3549	1/1	0.99	0.10	140,140,140,140	0
54	MG	CA	1721	1/1	0.99	0.12	128,128,128,128	0
54	MG	BA	3008	1/1	0.99	0.49	58,58,58,58	0

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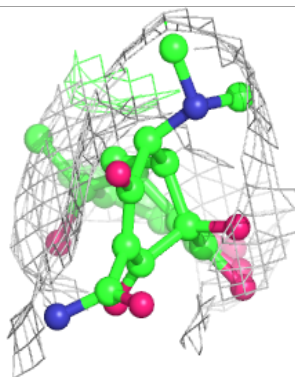
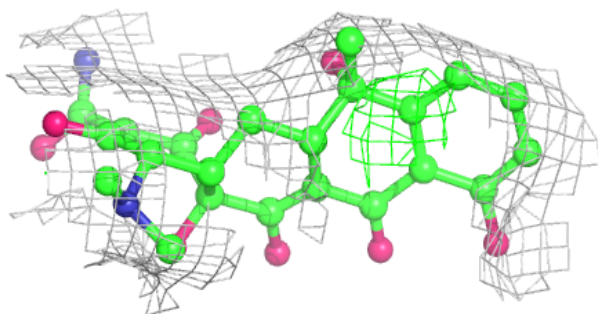
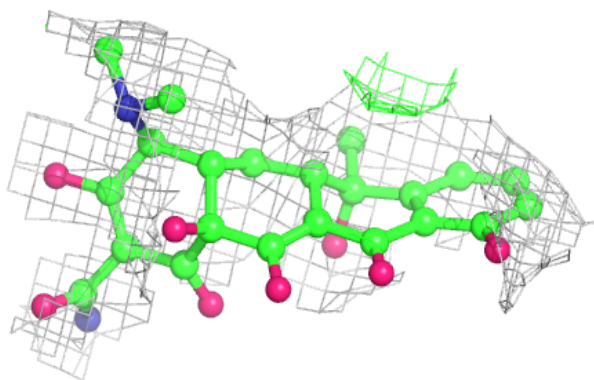
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
54	MG	DA	3094	1/1	0.99	0.13	85,85,85,85	0
54	MG	DA	3327	1/1	0.99	0.32	70,70,70,70	0
54	MG	DA	3184	1/1	0.99	0.23	68,68,68,68	0
54	MG	BA	3175	1/1	0.99	0.10	80,80,80,80	0
54	MG	DA	3495	1/1	0.99	0.32	78,78,78,78	0
54	MG	DA	3124	1/1	0.99	0.25	69,69,69,69	0
54	MG	DA	3497	1/1	0.99	0.21	50,50,50,50	0
54	MG	DA	3331	1/1	0.99	0.09	116,116,116,116	0
54	MG	DA	3499	1/1	0.99	0.14	103,103,103,103	0
54	MG	BA	3176	1/1	0.99	0.08	89,89,89,89	0
54	MG	AA	1640	1/1	0.99	0.22	82,82,82,82	0
54	MG	BA	3104	1/1	0.99	0.35	70,70,70,70	0
54	MG	BA	3192	1/1	0.99	0.29	67,67,67,67	0
54	MG	DA	3504	1/1	0.99	0.46	67,67,67,67	0
54	MG	BA	3495	1/1	0.99	0.32	73,73,73,73	0
54	MG	DA	3075	1/1	0.99	0.29	105,105,105,105	0
54	MG	BA	3089	1/1	0.99	0.51	77,77,77,77	0
54	MG	AA	1603	1/1	0.99	0.25	109,109,109,109	0
54	MG	BA	3195	1/1	0.99	0.13	82,82,82,82	0
54	MG	BA	3479	1/1	0.99	0.38	72,72,72,72	0
54	MG	DA	3262	1/1	0.99	0.13	112,112,112,112	0
54	MG	DA	3344	1/1	1.00	0.11	124,124,124,124	0
54	MG	AA	1616	1/1	1.00	0.28	158,158,158,158	0
54	MG	BA	3049	1/1	1.00	0.29	88,88,88,88	0

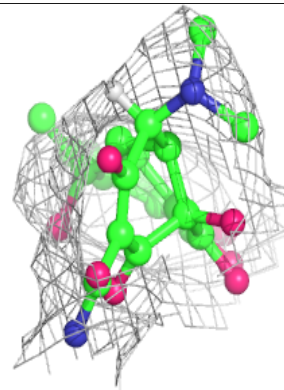
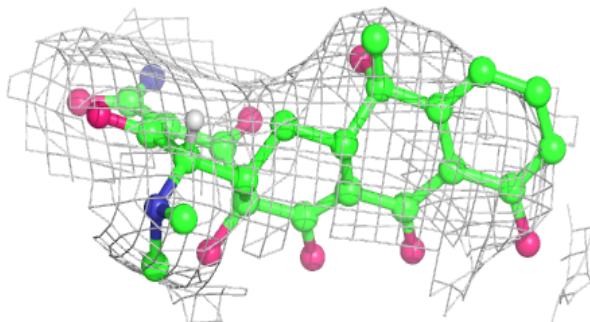
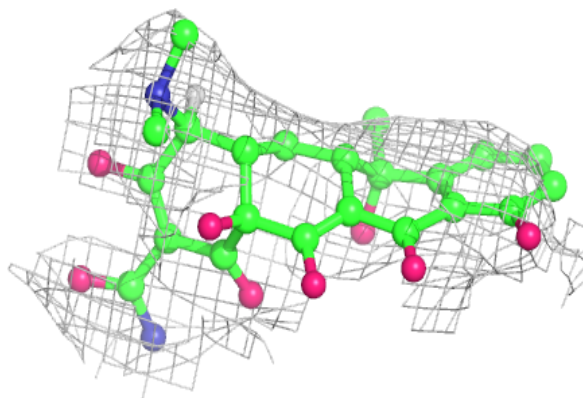
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

**Electron density around TAC CA 1805:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

**Electron density around TAC AA 1833:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



## 6.5 Other polymers [i](#)

There are no such residues in this entry.