



wwPDB X-ray Structure Validation Summary Report ⓘ

May 13, 2020 – 11:03 am BST

PDB ID : 4V8C
Title : Crystal structure analysis of ribosomal decoding (near-cognate tRNA-leu complex with paromomycin).
Authors : Jenner, L.; Demeshkina, N.; Yusupov, M.; Yusupova, G.
Deposited on : 2011-12-07
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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

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

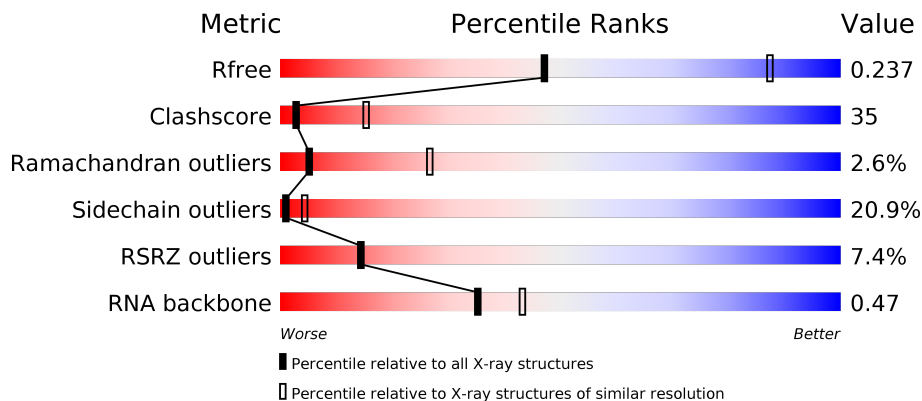
MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

1 Overall quality at a glance

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

The reported resolution of this entry is 3.30 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 on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	2912	
1	BA	2912	
2	AB	122	
2	BB	122	

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Mol	Chain	Length	Quality of chain
3	AD	276	4% 38% 47% 12% ..
3	BD	276	5% 41% 42% 14% ..
4	AE	206	18% 33% 46% 16% 5%
4	BE	206	17% 25% 50% 19% 5%
5	AF	210	% 37% 48% 11% .
5	BF	210	11% 34% 46% 19% .
6	AG	182	18% 32% 52% 14% ..
6	BG	182	21% 24% 60% 15% .
7	AH	180	3% 35% 41% 17% . 6%
7	BH	180	67% 31% 53% 10% . 6%
8	AK	148	12% 27% 52% 18% ..
8	BK	148	4% 36% 43% 17% ..
9	AM	140	4% 33% 45% 19% ..
9	BM	140	45% 45% 41% 12% ..
10	AN	122	2% 50% 43% 7%
10	BN	122	9% 43% 46% 11%
11	AO	150	2% 24% 47% 24% 5%
11	BO	150	8% 25% 41% 27% 7%
12	AP	141	8% 30% 48% 18% .
12	BP	141	28% 22% 55% 20% .
13	A0	118	36% 51% 12% .
13	B0	118	% 37% 50% 12% .
14	AQ	112	11% 39% 46% 12% ..
14	BQ	112	6% 33% 47% 17% ..
15	AR	146	6% 23% 53% 17% . 6%

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Mol	Chain	Length	Quality of chain
15	BR	146	
16	A1	118	
16	B1	118	
17	A2	101	
17	B2	101	
18	AS	113	
18	BS	113	
19	AT	96	
19	BT	96	
20	AU	110	
20	BU	110	
21	AV	206	
21	BV	206	
22	A3	85	
22	B3	85	
23	AZ	98	
23	BZ	98	
24	AW	72	
24	BW	72	
25	AX	60	
25	BX	60	
26	A4	71	
26	B4	71	
27	A5	60	
27	B5	60	

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Mol	Chain	Length	Quality of chain
28	A6	54	
28	B6	54	
29	A7	49	
29	B7	49	
30	A8	65	
30	B8	65	
31	CA	1506	
31	DA	1506	
32	CE	256	
32	DE	256	
33	CF	239	
33	DF	239	
34	CG	208	
34	DG	208	
35	CH	162	
35	DH	162	
36	CI	101	
36	DI	101	
37	CJ	156	
37	DJ	156	
38	CK	138	
38	DK	138	
39	CL	128	
39	DL	128	
40	CM	105	

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Mol	Chain	Length	Quality of chain
40	DM	105	
41	CN	129	
41	DN	129	
42	CO	132	
42	DO	132	
43	CP	126	
43	DP	126	
44	CQ	61	
44	DQ	61	
45	CR	89	
45	DR	89	
46	CS	88	
46	DS	88	
47	CT	105	
47	DT	105	
48	CU	88	
48	DU	88	
49	CV	93	
49	DV	93	
50	CW	106	
50	DW	106	
51	CX	27	
51	DX	27	
52	CB	87	
52	DB	87	

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Mol	Chain	Length	Quality of chain
53	CC	77	
53	CD	77	
53	DC	77	
53	DD	77	
54	C1	10	
54	D1	10	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	A3	101	-	-	-	X
55	MG	A5	102	-	-	-	X
55	MG	A6	101	-	-	-	X
55	MG	AA	3039	-	-	-	X
55	MG	AA	3053	-	-	-	X
55	MG	AA	3060	-	-	-	X
55	MG	AA	3067	-	-	-	X
55	MG	AA	3073	-	-	-	X
55	MG	AA	3075	-	-	-	X
55	MG	AA	3077	-	-	-	X
55	MG	AA	3078	-	-	-	X
55	MG	AA	3080	-	-	-	X
55	MG	AA	3093	-	-	-	X
55	MG	AA	3097	-	-	-	X
55	MG	AA	3108	-	-	-	X
55	MG	AA	3118	-	-	-	X
55	MG	AA	3121	-	-	-	X
55	MG	AA	3132	-	-	-	X
55	MG	AA	3148	-	-	-	X
55	MG	AA	3156	-	-	-	X
55	MG	AA	3182	-	-	-	X
55	MG	AA	3185	-	-	-	X
55	MG	AA	3193	-	-	-	X
55	MG	AA	3224	-	-	-	X
55	MG	AA	3225	-	-	-	X
55	MG	AA	3231	-	-	-	X
55	MG	AA	3235	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	AA	3236	-	-	-	X
55	MG	AA	3249	-	-	-	X
55	MG	AA	3258	-	-	-	X
55	MG	AA	3260	-	-	-	X
55	MG	AA	3261	-	-	-	X
55	MG	AA	3264	-	-	-	X
55	MG	AA	3268	-	-	-	X
55	MG	AA	3278	-	-	-	X
55	MG	AA	3286	-	-	-	X
55	MG	AA	3291	-	-	-	X
55	MG	AA	3294	-	-	-	X
55	MG	AA	3295	-	-	-	X
55	MG	AA	3302	-	-	-	X
55	MG	AA	3307	-	-	-	X
55	MG	AA	3309	-	-	-	X
55	MG	AA	3334	-	-	-	X
55	MG	AA	3335	-	-	-	X
55	MG	AA	3353	-	-	-	X
55	MG	AA	3356	-	-	-	X
55	MG	AA	3357	-	-	-	X
55	MG	AA	3358	-	-	-	X
55	MG	AA	3359	-	-	-	X
55	MG	AA	3361	-	-	-	X
55	MG	AA	3363	-	-	-	X
55	MG	AA	3366	-	-	-	X
55	MG	AA	3367	-	-	-	X
55	MG	AA	3369	-	-	-	X
55	MG	AA	3371	-	-	-	X
55	MG	AA	3373	-	-	-	X
55	MG	AA	3374	-	-	-	X
55	MG	AA	3375	-	-	-	X
55	MG	AA	3376	-	-	-	X
55	MG	AA	3377	-	-	-	X
55	MG	AA	3381	-	-	-	X
55	MG	AA	3382	-	-	-	X
55	MG	AA	3384	-	-	-	X
55	MG	AA	3385	-	-	-	X
55	MG	AA	3390	-	-	-	X
55	MG	AA	3391	-	-	-	X
55	MG	AA	3392	-	-	-	X
55	MG	AA	3393	-	-	-	X
55	MG	AA	3395	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	AA	3396	-	-	-	X
55	MG	AA	3397	-	-	-	X
55	MG	AA	3402	-	-	-	X
55	MG	AA	3407	-	-	-	X
55	MG	AA	3409	-	-	-	X
55	MG	AA	3416	-	-	-	X
55	MG	AA	3419	-	-	-	X
55	MG	AA	3421	-	-	-	X
55	MG	AA	3426	-	-	-	X
55	MG	AA	3435	-	-	-	X
55	MG	AA	3437	-	-	-	X
55	MG	AA	3438	-	-	-	X
55	MG	AA	3439	-	-	-	X
55	MG	AA	3441	-	-	-	X
55	MG	AA	3452	-	-	-	X
55	MG	AA	3456	-	-	-	X
55	MG	AA	3463	-	-	-	X
55	MG	AA	3466	-	-	-	X
55	MG	AA	3469	-	-	-	X
55	MG	AA	3480	-	-	-	X
55	MG	AA	3490	-	-	-	X
55	MG	AA	3497	-	-	-	X
55	MG	AA	3498	-	-	-	X
55	MG	AA	3499	-	-	-	X
55	MG	AA	3501	-	-	-	X
55	MG	AA	3502	-	-	-	X
55	MG	AA	3522	-	-	-	X
55	MG	AA	3524	-	-	-	X
55	MG	AA	3527	-	-	-	X
55	MG	AA	3536	-	-	-	X
55	MG	AA	3556	-	-	-	X
55	MG	AA	3557	-	-	-	X
55	MG	AA	3583	-	-	-	X
55	MG	AA	3593	-	-	-	X
55	MG	AA	3594	-	-	-	X
55	MG	AA	3604	-	-	-	X
55	MG	AA	3612	-	-	-	X
55	MG	AA	3626	-	-	-	X
55	MG	AB	204	-	-	-	X
55	MG	AB	209	-	-	-	X
55	MG	AB	212	-	-	-	X
55	MG	BA	3003	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	BA	3024	-	-	-	X
55	MG	BA	3041	-	-	-	X
55	MG	BA	3044	-	-	-	X
55	MG	BA	3065	-	-	-	X
55	MG	BA	3067	-	-	-	X
55	MG	BA	3073	-	-	-	X
55	MG	BA	3108	-	-	-	X
55	MG	BA	3121	-	-	-	X
55	MG	BA	3125	-	-	-	X
55	MG	BA	3185	-	-	-	X
55	MG	BA	3191	-	-	-	X
55	MG	BA	3226	-	-	-	X
55	MG	BA	3235	-	-	-	X
55	MG	BA	3266	-	-	-	X
55	MG	BA	3289	-	-	-	X
55	MG	BA	3350	-	-	-	X
55	MG	BA	3355	-	-	-	X
55	MG	BA	3374	-	-	-	X
55	MG	BA	3383	-	-	-	X
55	MG	BA	3387	-	-	-	X
55	MG	BA	3390	-	-	-	X
55	MG	BA	3394	-	-	-	X
55	MG	BA	3398	-	-	-	X
55	MG	BA	3410	-	-	-	X
55	MG	BA	3413	-	-	-	X
55	MG	BA	3423	-	-	-	X
55	MG	BA	3424	-	-	-	X
55	MG	BA	3444	-	-	-	X
55	MG	BA	3454	-	-	-	X
55	MG	BA	3472	-	-	-	X
55	MG	BA	3474	-	-	-	X
55	MG	BB	208	-	-	-	X
55	MG	BB	213	-	-	-	X
55	MG	BR	202	-	-	-	X
55	MG	C1	101	-	-	-	X
55	MG	CA	1617	-	-	-	X
55	MG	CA	1639	-	-	-	X
55	MG	CA	1653	-	-	-	X
55	MG	CA	1662	-	-	-	X
55	MG	CA	1694	-	-	-	X
55	MG	CA	1704	-	-	-	X
55	MG	CA	1709	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
55	MG	CA	1714	-	-	-	X
55	MG	CA	1722	-	-	-	X
55	MG	CA	1734	-	-	-	X
55	MG	CA	1735	-	-	-	X
55	MG	CA	1757	-	-	-	X
55	MG	CA	1758	-	-	-	X
55	MG	CA	1766	-	-	-	X
55	MG	CA	1774	-	-	-	X
55	MG	CA	1776	-	-	-	X
55	MG	CA	1778	-	-	-	X
55	MG	CA	1782	-	-	-	X
55	MG	CA	1783	-	-	-	X
55	MG	CA	1798	-	-	-	X
55	MG	CA	1803	-	-	-	X
55	MG	CA	1813	-	-	-	X
55	MG	CC	107	-	-	-	X
55	MG	CG	301	-	-	-	X
55	MG	DA	1613	-	-	-	X
55	MG	DA	1661	-	-	-	X
55	MG	DA	1678	-	-	-	X
55	MG	DA	1682	-	-	-	X
55	MG	DA	1683	-	-	-	X
55	MG	DA	1698	-	-	-	X
55	MG	DA	1708	-	-	-	X
55	MG	DA	1710	-	-	-	X
55	MG	DA	1711	-	-	-	X
55	MG	DA	1712	-	-	-	X
55	MG	DA	1719	-	-	-	X
55	MG	DA	1748	-	-	-	X
55	MG	DA	1758	-	-	-	X
55	MG	DA	1759	-	-	-	X
55	MG	DA	1760	-	-	-	X
55	MG	DA	1764	-	-	-	X
55	MG	DA	1766	-	-	-	X
55	MG	DA	1777	-	-	-	X
55	MG	DA	1791	-	-	-	X
55	MG	DA	1794	-	-	-	X
55	MG	DA	1802	-	-	-	X
55	MG	DA	1803	-	-	-	X
55	MG	DC	107	-	-	-	X
55	MG	DS	101	-	-	-	X

2 Entry composition [i](#)

There are 57 unique types of molecules in this entry. The entry contains 299682 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called RNA (2912-MER).

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

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AA	161	U	-	EXPRESSION TAG	GB AP008226.1
AA	654A	A	G	CONFLICT	GB AP008226.1
AA	654E	C	G	CONFLICT	GB AP008226.1
AA	654P	G	C	CONFLICT	GB AP008226.1
AA	654T	A	C	CONFLICT	GB AP008226.1
AA	1058	U	G	CONFLICT	GB AP008226.1
AA	1080	A	C	CONFLICT	GB AP008226.1
BA	158	U	-	EXPRESSION TAG	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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AK	146	Total	C	N	O	S	0	0	0
			1136	726	201	208	1			

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	A0	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
13	B0	117	Total	C	N	O		0	0	0
			960	599	202	159				

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
16	A1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
16	B1	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
17	A2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
17	B2	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	A3	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
22	B3	77	Total	C	N	O	S	0	0	0
			613	379	129	104	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AW	66	Total	C	N	O	S	0	0	0
			558	346	113	98	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	BW	69	Total	C	N	O	S	0	0	0
			581	358	118	104	1			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	A4	66	Total	C	N	O	S	0	0	0
			533	335	96	97	5			
26	B4	63	Total	C	N	O	S	0	0	0
			515	326	93	91	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	A5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
27	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	A6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			
28	B6	45	Total	C	N	O	S	0	0	0
			389	241	79	65	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	A7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			
29	B7	49	Total	C	N	O	S	0	0	0
			430	263	108	57	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	A8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			
30	B8	61	Total	C	N	O	S	0	0	0
			488	312	99	75	2			

- Molecule 31 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	CA	1506	Total	C	N	O	P	0	0	0
			32369	14408	5997	10459	1505			
31	DA	1506	Total	C	N	O	P	0	0	0
			32372	14408	5997	10461	1506			

- Molecule 32 is a protein called 30S RIBOSOMAL PROTEIN S2.

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

- Molecule 33 is a protein called 30S RIBOSOMAL PROTEIN S3.

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

- Molecule 34 is a protein called 30S RIBOSOMAL PROTEIN S4.

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

- Molecule 35 is a protein called 30S RIBOSOMAL PROTEIN S5.

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

- Molecule 36 is a protein called 30S RIBOSOMAL PROTEIN S6.

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

- Molecule 37 is a protein called 30S RIBOSOMAL PROTEIN S7.

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

- Molecule 38 is a protein called 30S RIBOSOMAL PROTEIN S8.

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

- Molecule 39 is a protein called 30S RIBOSOMAL PROTEIN S9.

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

- Molecule 40 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	CM	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			
40	DM	99	801	504	157	139	1	0	0	0

- Molecule 41 is a protein called 30S RIBOSOMAL PROTEIN S11.

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

- Molecule 42 is a protein called 30S RIBOSOMAL PROTEIN S12.

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

- Molecule 43 is a protein called 30S RIBOSOMAL PROTEIN S13.

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

- Molecule 44 is a protein called 30S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
44	CQ	60	492	312	104	72	4	0	0	0
44	DQ	60	492	312	104	72	4	0	0	0

- Molecule 45 is a protein called 30S RIBOSOMAL PROTEIN S15.

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

- Molecule 46 is a protein called 30S RIBOSOMAL PROTEIN S16.

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

- Molecule 47 is a protein called 30S RIBOSOMAL PROTEIN S17.

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

- Molecule 48 is a protein called 30S RIBOSOMAL PROTEIN S18.

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

- Molecule 49 is a protein called 30S RIBOSOMAL PROTEIN S19.

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

- Molecule 50 is a protein called 30S RIBOSOMAL PROTEIN S20.

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

- Molecule 51 is a protein called 30S RIBOSOMAL PROTEIN THX.

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

- Molecule 52 is a RNA chain called TRNA-LEU.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	CB	87	Total	C	N	O	P	9	0	0
			1861	829	333	612	87			
52	DB	87	Total	C	N	O	P	8	0	0
			1861	829	333	612	87			

- Molecule 53 is a RNA chain called TRNA-FMET.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	CC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
53	CD	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
53	DC	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			
53	DD	77	Total	C	N	O	P	0	0	0
			1643	732	298	536	77			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
CC	18	C	U	CONFLICT	GB AP012306.1
CD	18	C	U	CONFLICT	GB AP012306.1
DC	18	C	U	CONFLICT	GB AP012306.1
DD	18	C	U	CONFLICT	GB AP012306.1

- Molecule 54 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	C1	10	Total	C	N	O	P	0	0	0
			205	92	26	77	10			
54	D1	10	Total	C	N	O	P	0	0	0
			205	92	26	77	10			

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

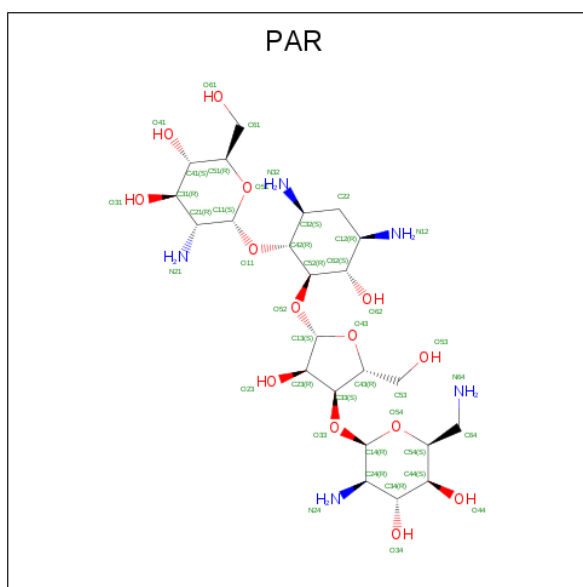
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	BA	528	Total Mg 528 528	0	0
55	CA	240	Total Mg 240 240	0	0
55	AB	17	Total Mg 17 17	0	0
55	A6	1	Total Mg 1 1	0	0
55	BE	3	Total Mg 3 3	0	0
55	B1	1	Total Mg 1 1	0	0
55	C1	1	Total Mg 1 1	0	0
55	CD	1	Total Mg 1 1	0	0
55	BP	1	Total Mg 1 1	0	0
55	CN	2	Total Mg 2 2	0	0
55	A2	1	Total Mg 1 1	0	0
55	DC	8	Total Mg 8 8	0	0
55	B5	1	Total Mg 1 1	0	0
55	BB	15	Total Mg 15 15	0	0
55	AE	4	Total Mg 4 4	0	0
55	DG	2	Total Mg 2 2	0	0
55	AA	626	Total Mg 626 626	0	0
55	CQ	2	Total Mg 2 2	0	0
55	A5	2	Total Mg 2 2	0	0
55	CG	2	Total Mg 2 2	0	0
55	A1	1	Total Mg 1 1	0	0
55	AD	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	CT	1	Total Mg 1 1	0	0
55	DH	1	Total Mg 1 1	0	0
55	CC	7	Total Mg 7 7	0	0
55	DS	1	Total Mg 1 1	0	0
55	B3	1	Total Mg 1 1	0	0
55	BR	2	Total Mg 2 2	0	0
55	AZ	1	Total Mg 1 1	0	0
55	DA	204	Total Mg 204 204	0	0
55	AU	1	Total Mg 1 1	0	0
55	A0	1	Total Mg 1 1	0	0
55	CB	5	Total Mg 5 5	0	0
55	A7	2	Total Mg 2 2	0	0
55	BD	1	Total Mg 1 1	0	0
55	AO	3	Total Mg 3 3	0	0
55	A3	1	Total Mg 1 1	0	0
55	AF	3	Total Mg 3 3	0	0
55	DB	2	Total Mg 2 2	0	0

- Molecule 56 is PAROMOMYCIN (three-letter code: PAR) (formula: $C_{23}H_{45}N_5O_{14}$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
56	CA	1	Total	C	N	O	0	0
			42	23	5	14		
56	DA	1	Total	C	N	O	0	0
			42	23	5	14		

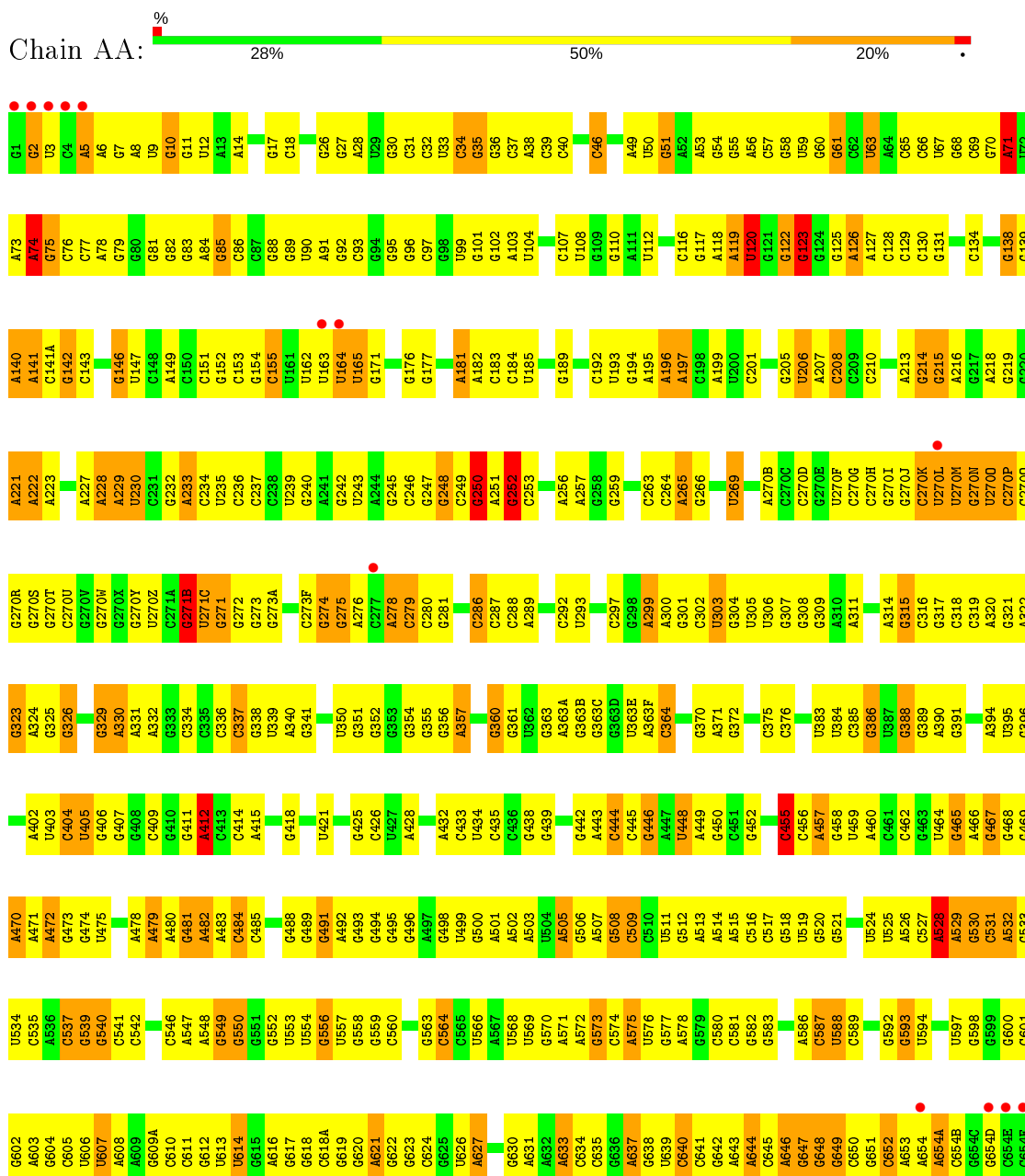
- Molecule 57 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	DG	1	Total	Zn	0	0
			1	1		
57	CQ	1	Total	Zn	0	0
			1	1		
57	DQ	1	Total	Zn	0	0
			1	1		
57	CG	1	Total	Zn	0	0
			1	1		

3 Residue-property plots [i](#)

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

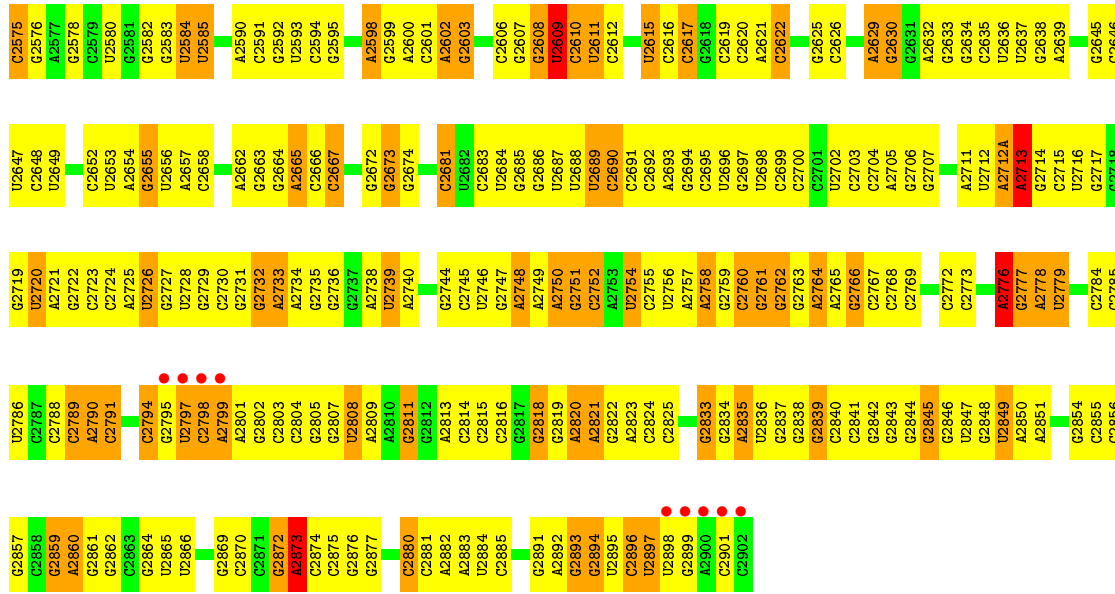
- Molecule 1: RNA (2912-MER)



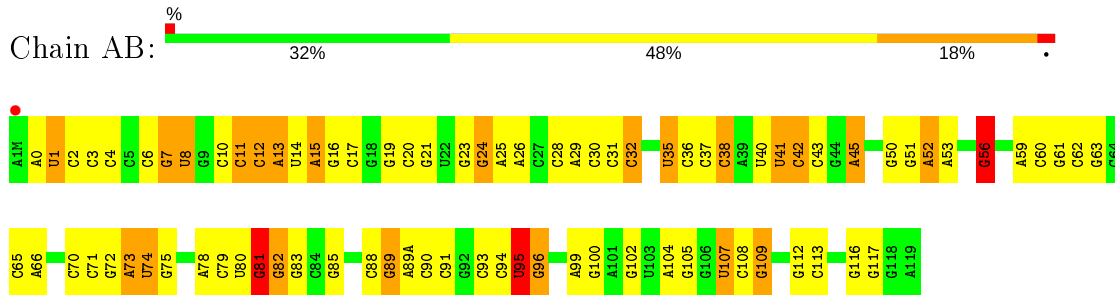
G1525	G1526	G1527	A1529	G1530	G1531	G1532	G1533	G1534	G1535	G1536	G1537	G1538	G1539	G1540	G1541	G1542	G1543	G1544	G1545	G1546	G1547	G1548	G1549	G1550	A1553	A1554	G1556	G1557	A1558	G1559	G1560	G1561	G1562	G1563	G1564	G1565	A1566	A1567	G1568	A1569	A1570	A1571	A1572	C1575	C1576	C1577	C1578	C1579	C1580	C1581	C1582	C1585								
G1461	G1462	C1463	G1464	G1465	G1466	G1467	C1468	A1469	G1470	A1471	C1474	G1475	C1476	G1477	G1478	G1479	G1480	G1482	G1483	G1484	G1485	G1486	G1487	G1488	G1489	A1490	G1491	C1492	A1493	A1494	A1495	A1496	U1497	C1498	G1499	G1500	C1501	G1502	G1503	G1504	G1505	C1506	A1507	A1508	C1509	G1510	A1511	G1512	C1513	C1514	G1515	G1516	G1517	G1518	G1519	U1520	A1521	C1522	G1523	G1524
A1395	U1396	U1397	G1398	G1399	G1400	G1401	G1402	G1403	G1404	G1405	G1406	G1409	G1410	G1411	G1412	G1413	G1416	G1417	G1418	G1419	U1420	G1421	G1424	G1425	G1426	A1427	G1428	G1429	G1430	G1431	G1432	G1433	G1434	G1435	G1436	G1437	G1438	G1439	G1440	G1441	G1442	G1443	G1444	A1444A	G1448	A1449	G1450	G1451	G1452	G1453	G1454	G1455	G1456	G1457	G1458	G1459	G1460			
U1326	G1327	G1328	U1329	G1330	A1331	C1332	A1336	G1337	G1338	G1339	U1340	U1341	G1344	G1345	G1348	A1349	U1352	A1353	A1354	G1355	G1356	U1357	G1358	A1359	A1360	G1361	A1365	A1366	G1367	G1368	G1369	U1372	G1373	G1374	G1375	A1379	G1380	G1381	G1382	G1383	A1384	G1385	G1386	G1387	G1388	G1389	U1390	U1391	A1392	A1393	U1394	G1395	G1396	G1397	G1398	G1399				
G1251	G1252	A1253	G1256	G1257	C1258	G1259	G1260	G1261	A1262	G1263	G1264	A1265	G1266	G1267	A1268	A1269	G1270	G1271	A1272	U1273	A1274	A1275	A1276	G1277	G1278	G1279	A1287	G1280	G1281	G1282	G1283	G1284	G1285	G1286	G1287	G1288	G1289	U1300	A1301	G1303	G1310	G1311	U1312	U1313	G1314	C1315	C1316	G1317	G1318	G1319	G1320	A1321	A1322	U1323	U1324	U1325				
C1180	C1181	A1182	G1183	G1184	G1185	G1186	G1187	U1188	A1189	G1190	G1191	G1192	G1193	A1194	U1195	G1196	G1197	C1201	G1202	G1203	A1204	U1205	G1206	G1207	G1208	G1209	A1210	U1211	G1212	G1215	G1216	G1217	G1218	G1219	A1220	A1227	G1228	G1230	G1231	G1232	G1233	U1234	G1235	U1236	A1237	G1238	C1315	C1316	U1317	U1318	U1319	U1320	U1249	G1250	G1251					
A1054	G1055	G1056	A1057	U1058	G1059	U1060	U1061	G1062	G1063	C1064	U1065	U1066	A1067	G1068	A1069	A1070	G1071	C1072	A1073	G1074	C1075	C1076	A1077	C1078	A1080	U1081	U1082	U1083	A1084	A1085	A1086	G1087	A1088	G1089	U1090	G1091	C1092	G1093	U1094	A1095	A1096	U1097	A1098	G1099	C1100	U1101	U1102	A1103	C1104	U1105	G1106	G1107	U1108	A1109	G1110	A1111	G1112	U1113		
G1117	C1118	C1119	G1122	G1125	A1126	A1127	A1128	C1064	U1129	G1130	G1131	A1132	U1133	G1135	G1136	G1137	G1138	G1139	U1140	U1141	U1142	A1142A	A1143	U1144	C1145	C1146	C1147	A1148	G1149	U1150	G1151	C1152	C1153	G1154	A1155	U1156	G1157	C1158	U1159	G1160	C1161	G1162	U1165	C1166	U1167	G1168	G1169	G1170	G1171	G1173	A1174	U1175	G1176	A1177	C1178	C1179				
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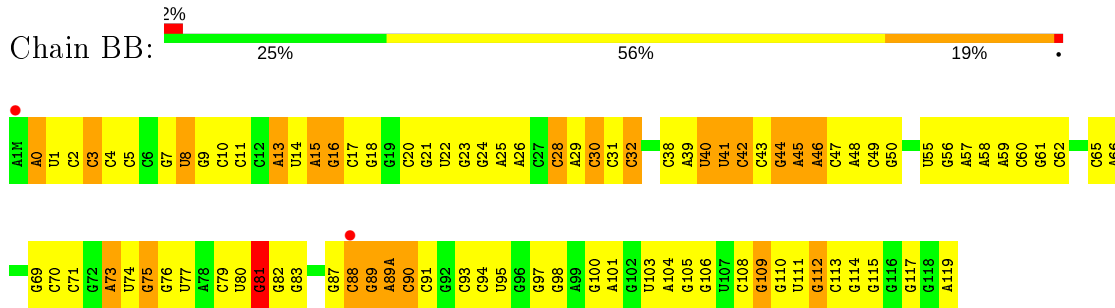
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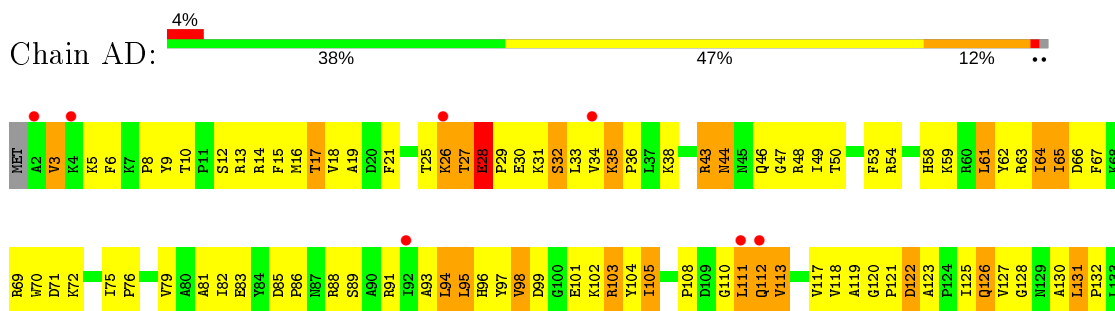
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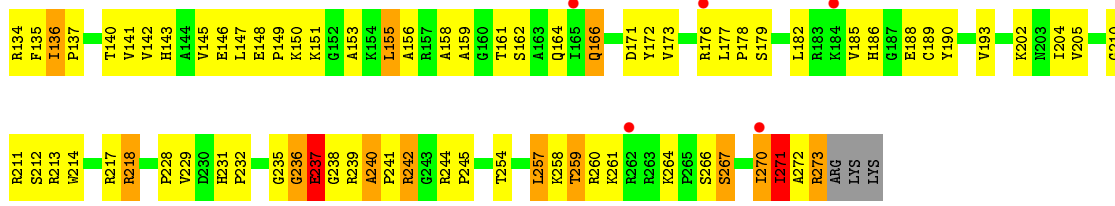


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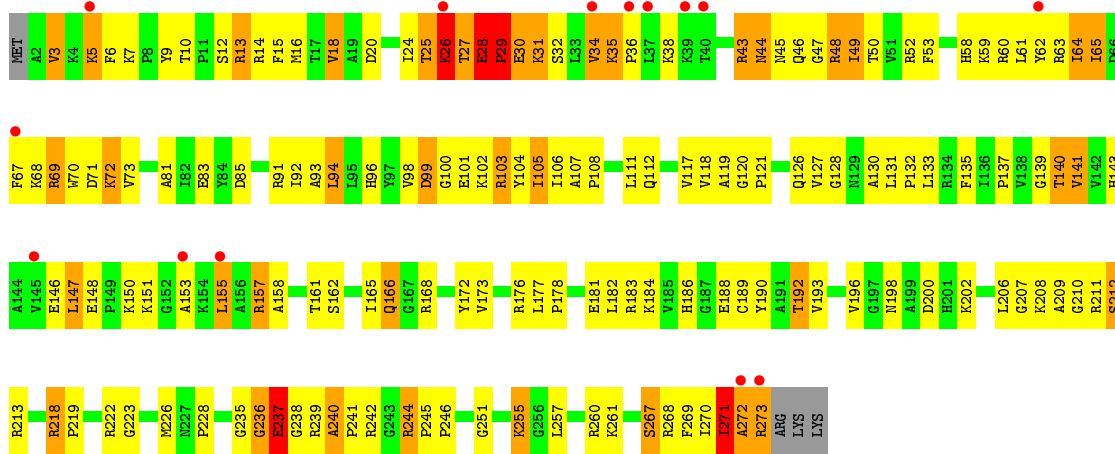


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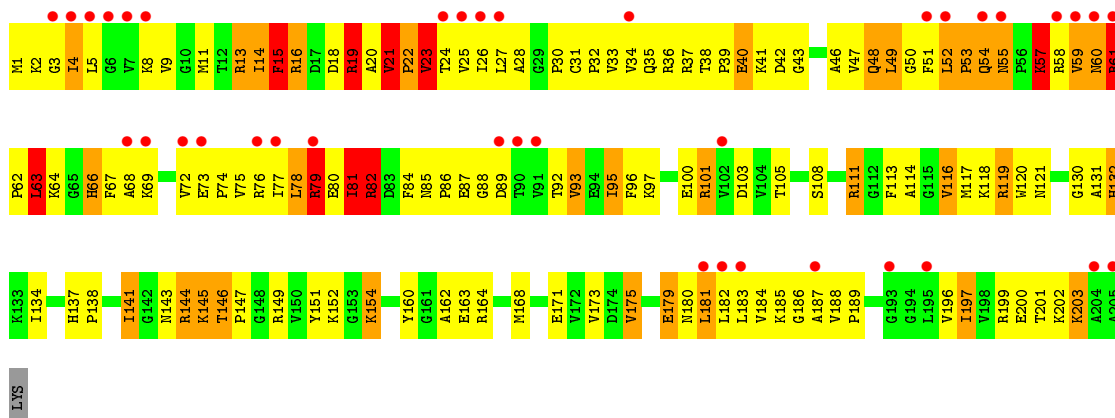




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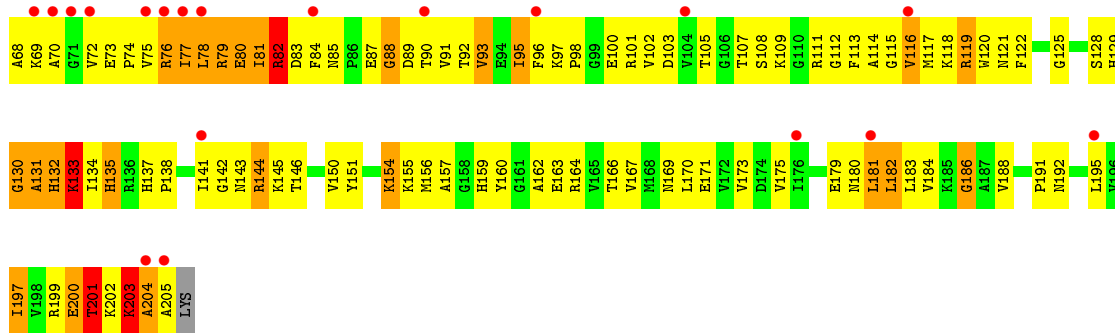


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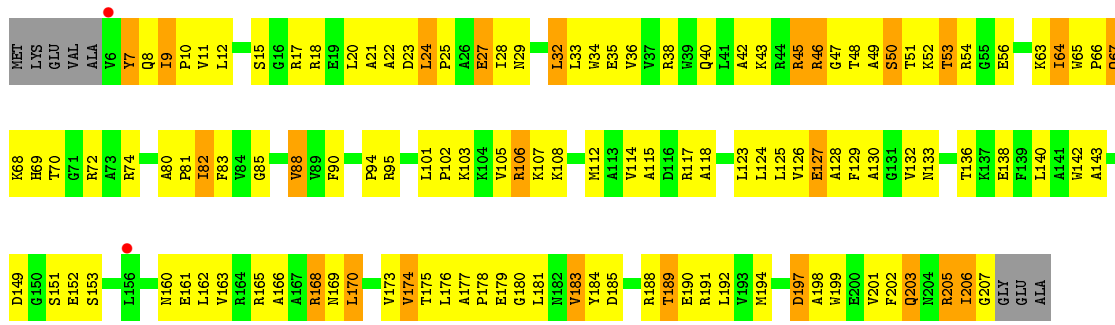


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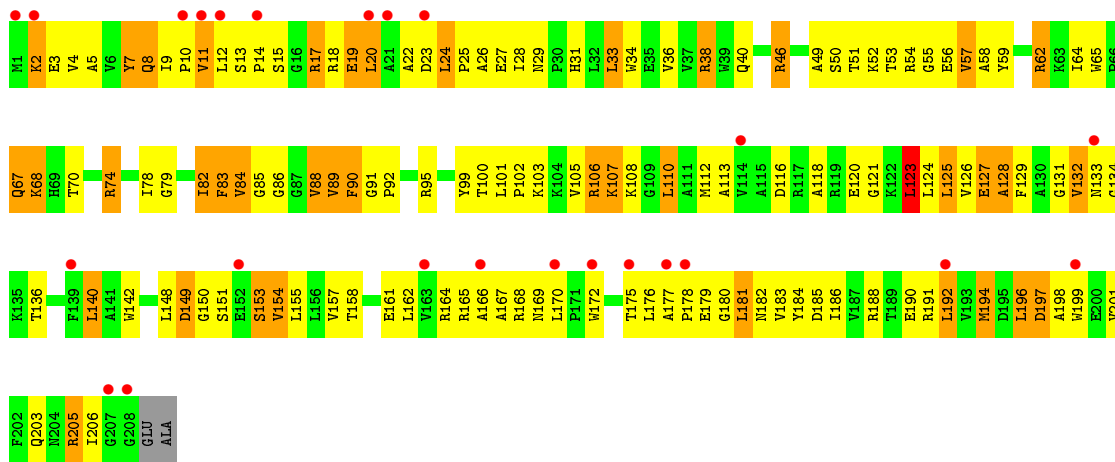




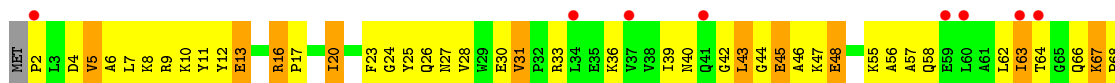
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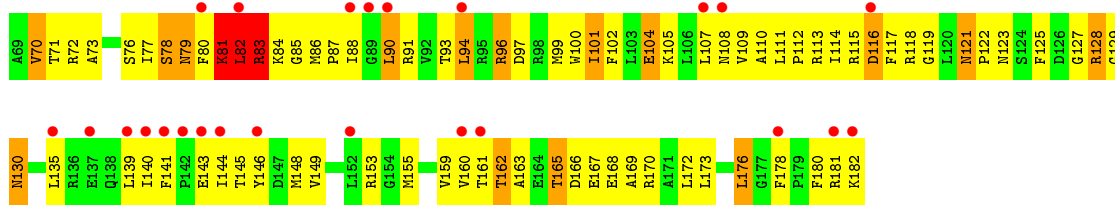


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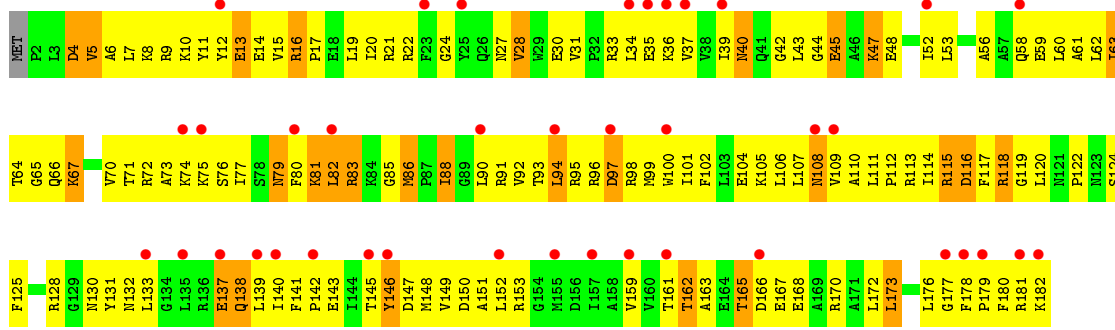


• Molecule 6: 50S ribosomal protein L5

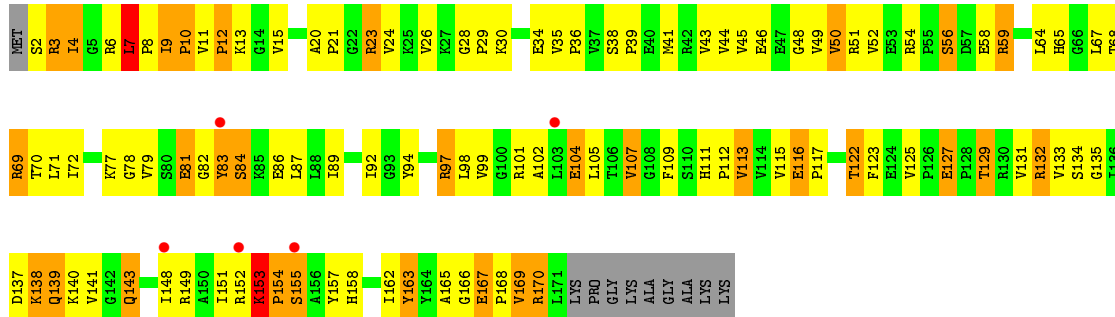




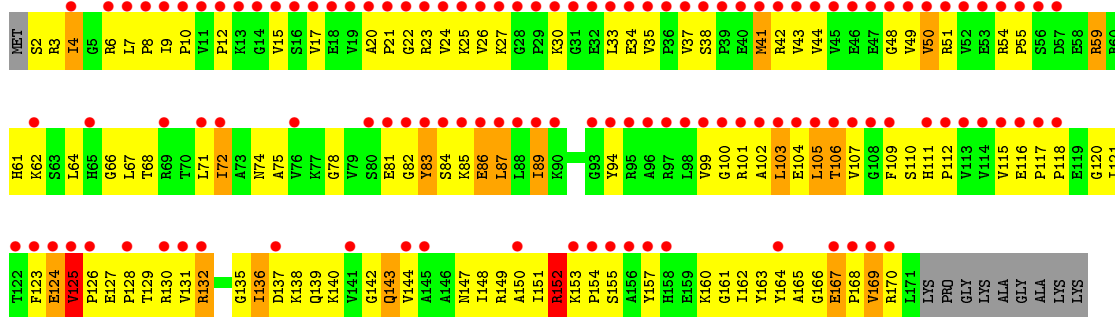
• Molecule 6: 50S ribosomal protein L5



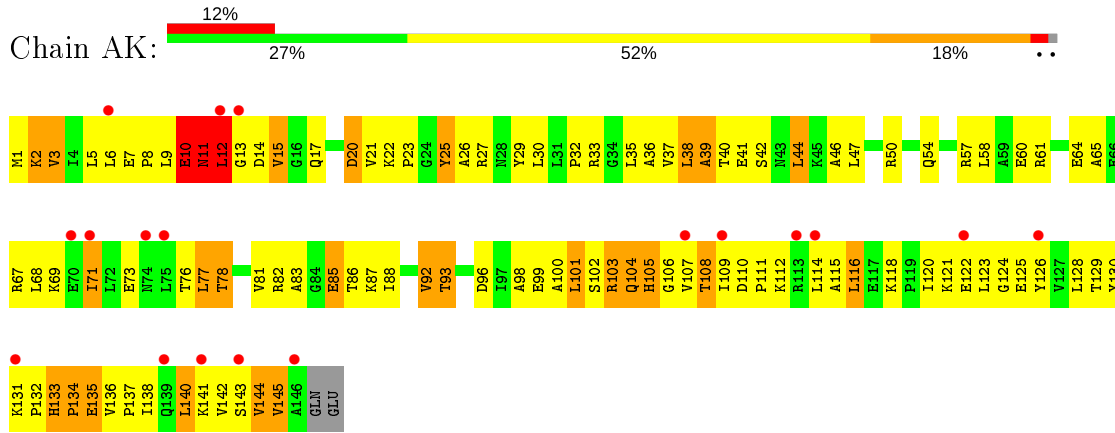
• Molecule 7: 50S ribosomal protein L6



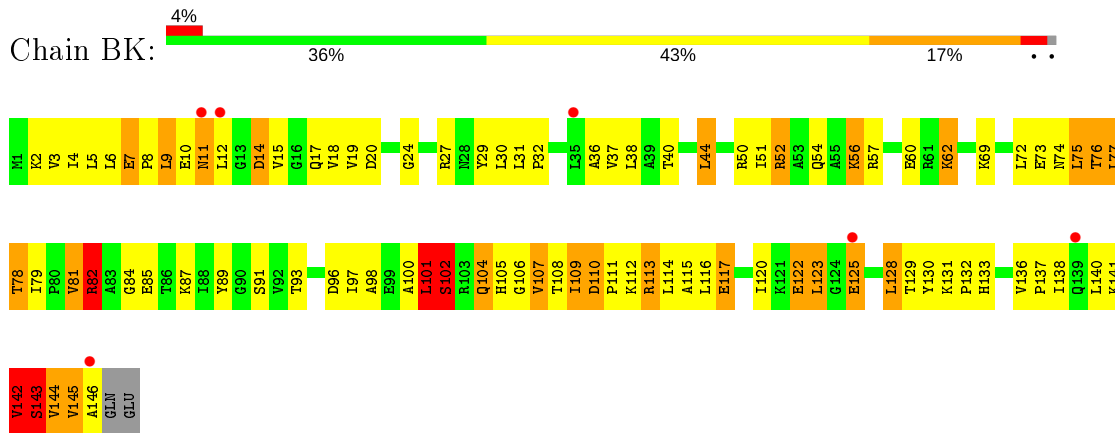
• Molecule 7: 50S ribosomal protein L6



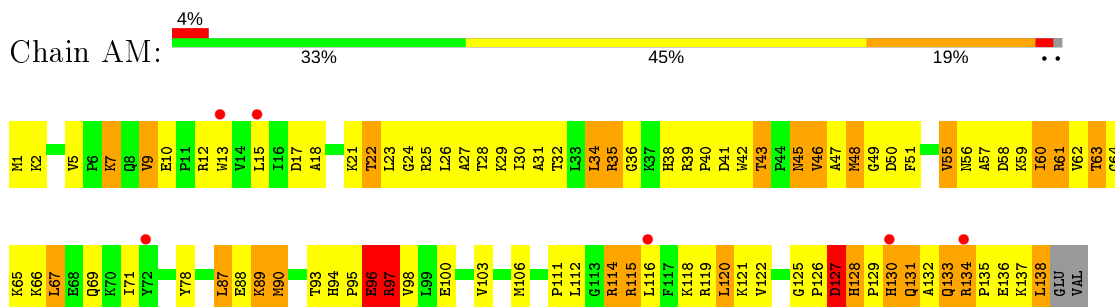
• Molecule 8: 50S ribosomal protein L9

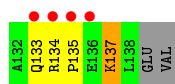


• Molecule 8: 50S ribosomal protein L9

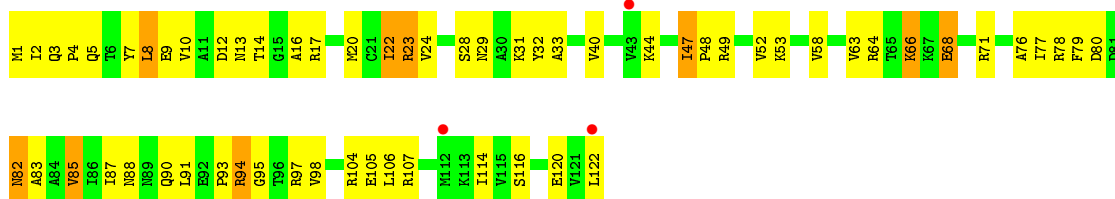


• Molecule 9: 50S ribosomal protein L13

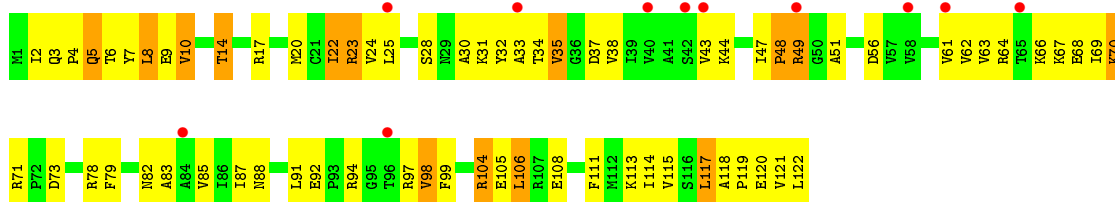
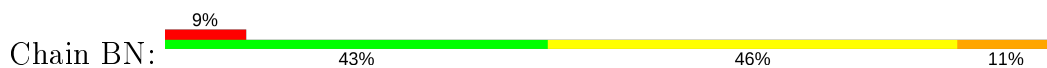




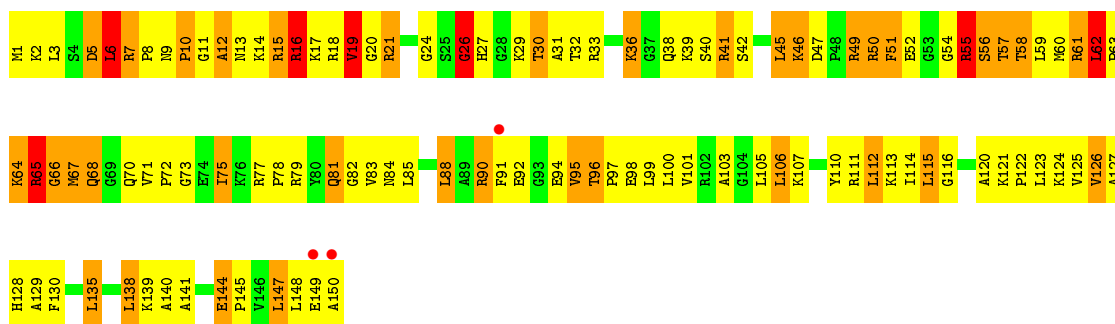
- Molecule 10: 50S ribosomal protein L14



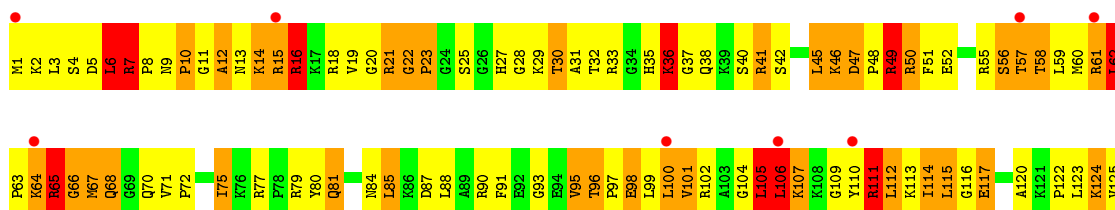
- Molecule 10: 50S ribosomal protein L14

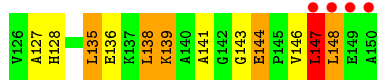


- Molecule 11: 50S ribosomal protein L15

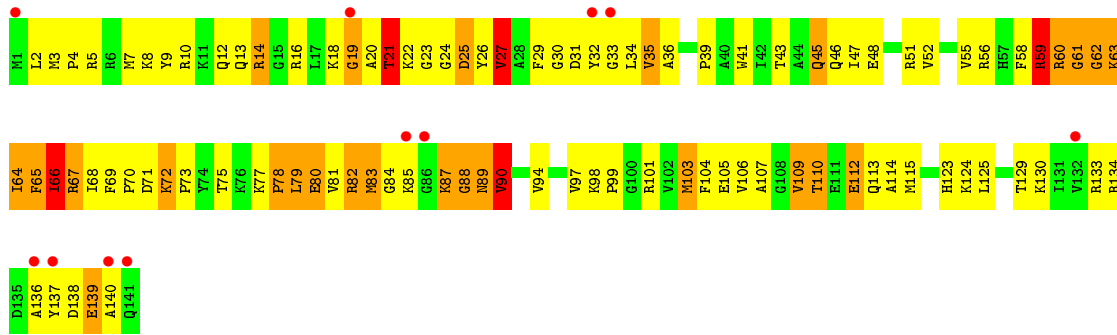


- Molecule 11: 50S ribosomal protein L15

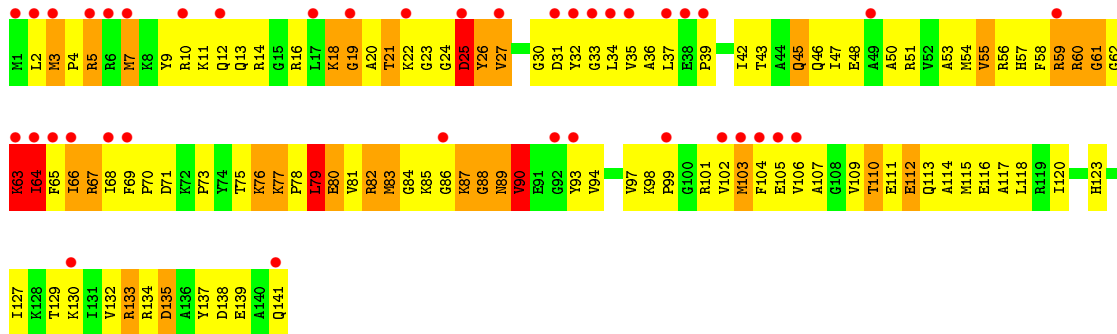




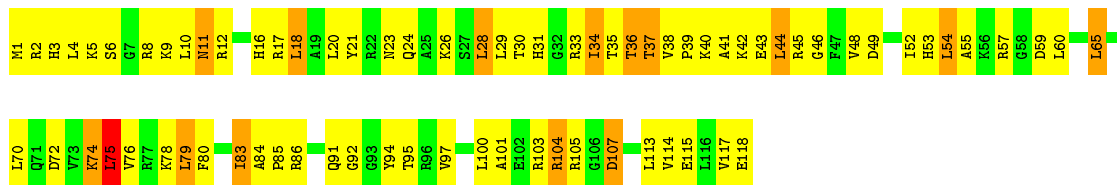
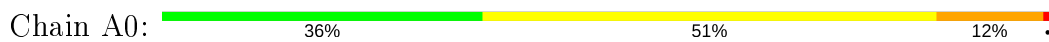
• Molecule 12: 50S ribosomal protein L16



• Molecule 12: 50S ribosomal protein L16

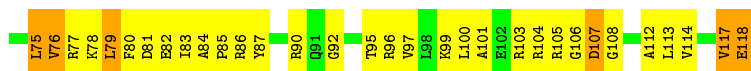


• Molecule 13: 50S ribosomal protein L17

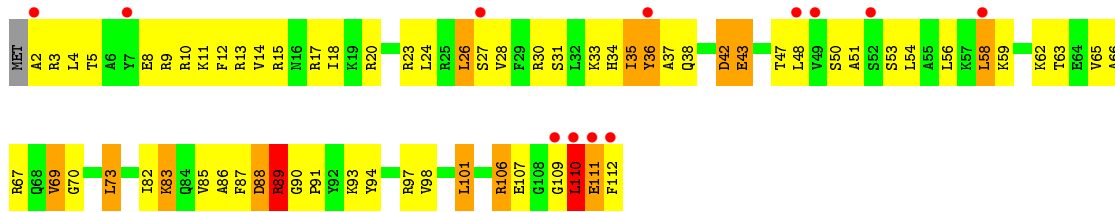


• Molecule 13: 50S ribosomal protein L17

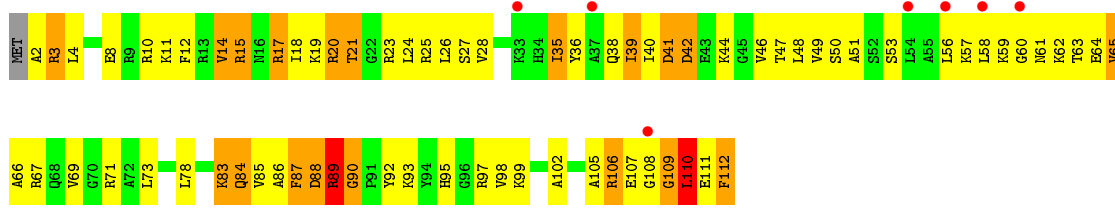




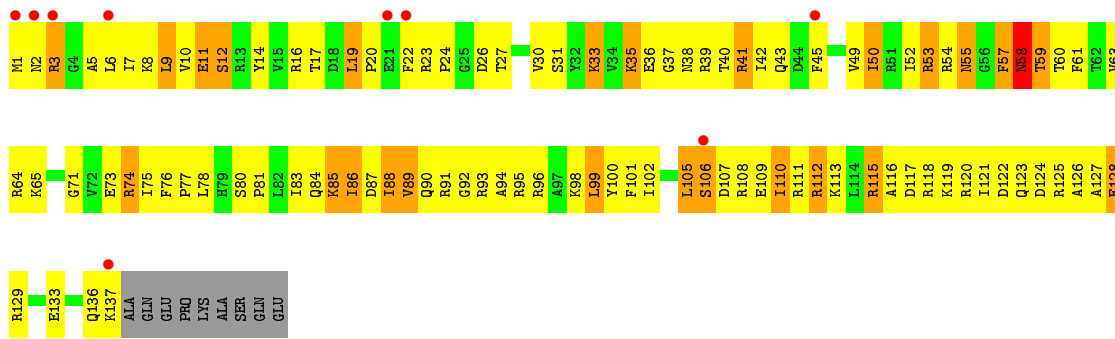
• Molecule 14: 50S ribosomal protein L18



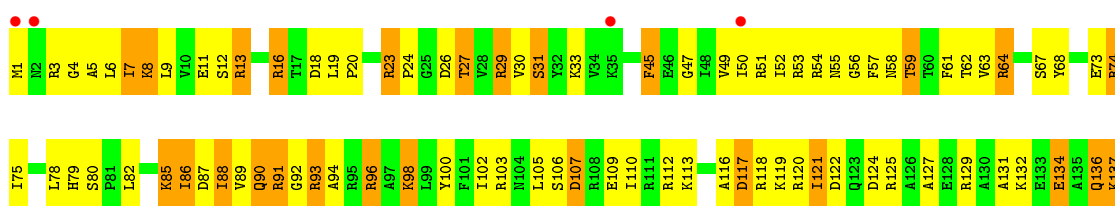
• Molecule 14: 50S ribosomal protein L18



• Molecule 15: 50S ribosomal protein L19

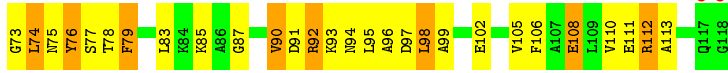
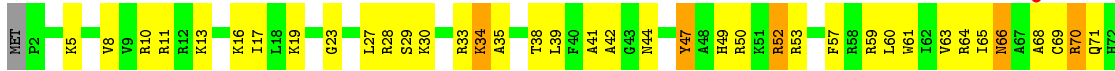


• Molecule 15: 50S ribosomal protein L19

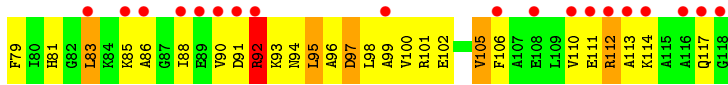


ALA
GLN
GLU
PRO
LYS
ALA
SER
GLN
GLU

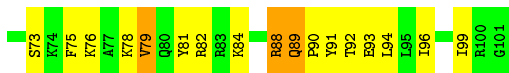
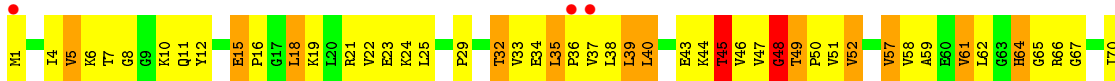
• Molecule 16: 50S ribosomal protein L20



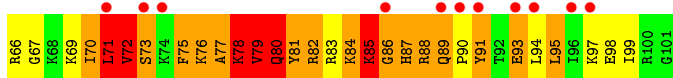
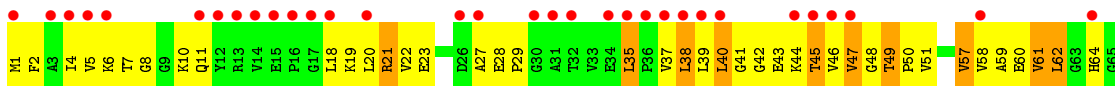
• Molecule 16: 50S ribosomal protein L20



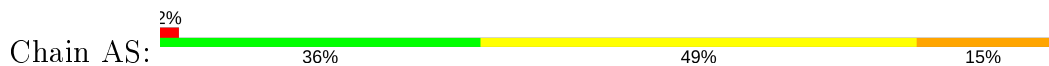
• Molecule 17: 50S ribosomal protein L21

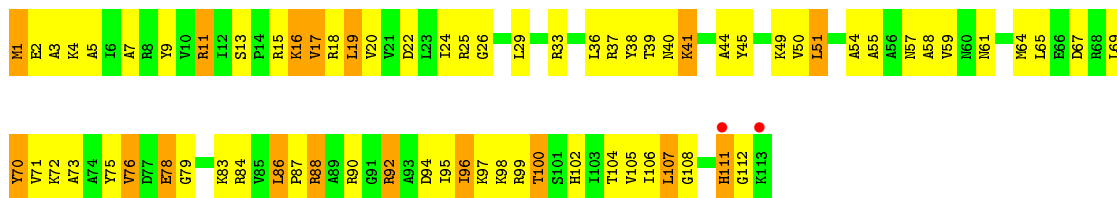


• Molecule 17: 50S ribosomal protein L21

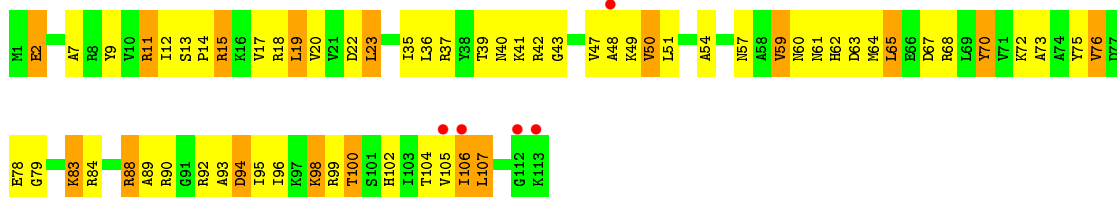
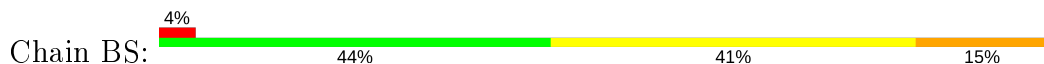


• Molecule 18: 50S ribosomal protein L22

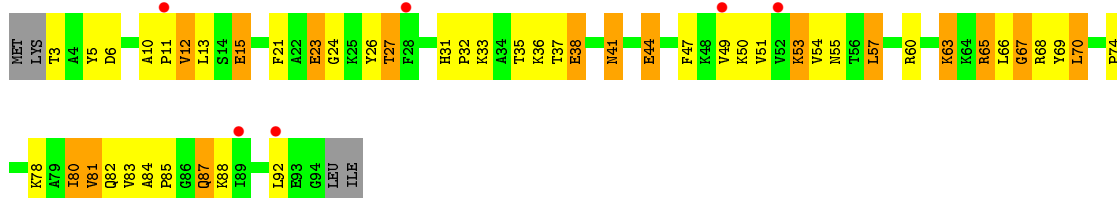




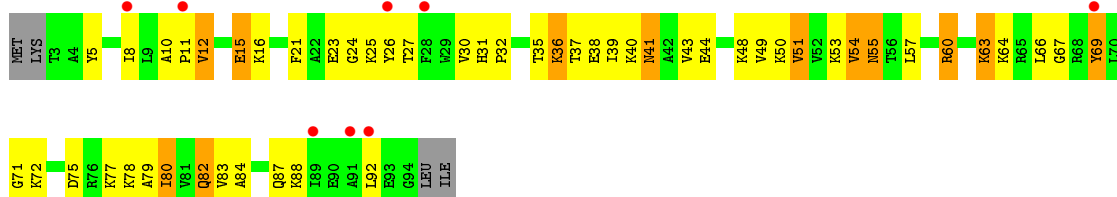
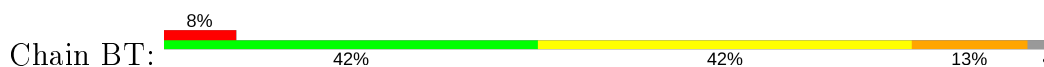
• Molecule 18: 50S ribosomal protein L22



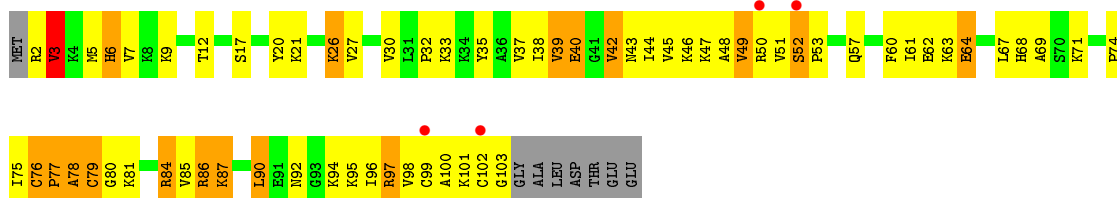
• Molecule 19: 50S ribosomal protein L23



• Molecule 19: 50S ribosomal protein L23

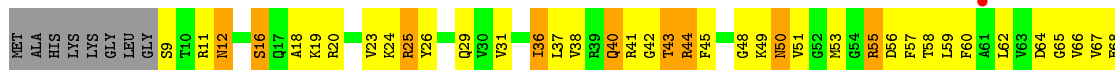


• Molecule 20: 50S ribosomal protein L24

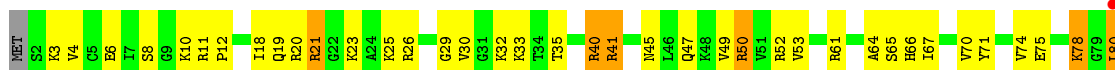




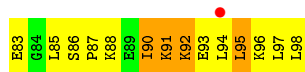
• Molecule 22: 50S ribosomal protein L27



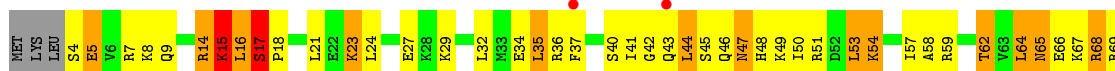
• Molecule 23: 50S ribosomal protein L28



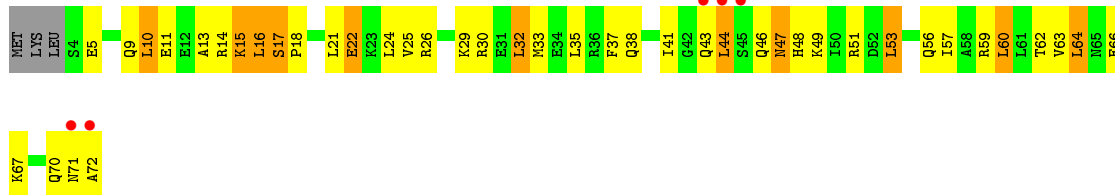
• Molecule 23: 50S ribosomal protein L28



• Molecule 24: 50S ribosomal protein L29



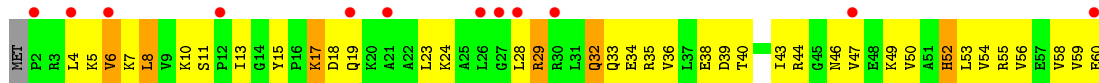
• Molecule 24: 50S ribosomal protein L29



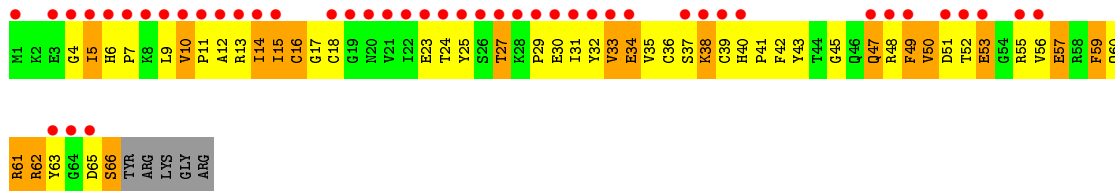
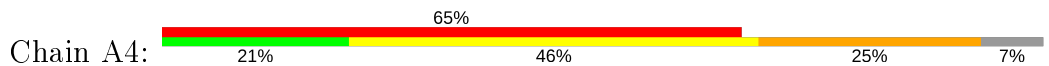
- Molecule 25: 50S ribosomal protein L30



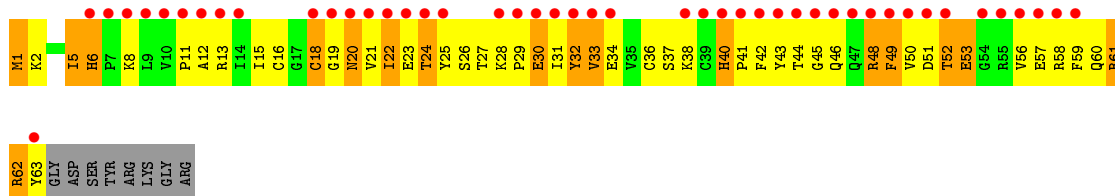
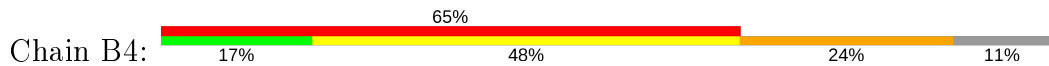
- Molecule 25: 50S ribosomal protein L30



- Molecule 26: 50S ribosomal protein L31

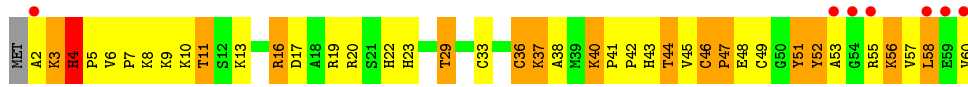


- Molecule 26: 50S ribosomal protein L31

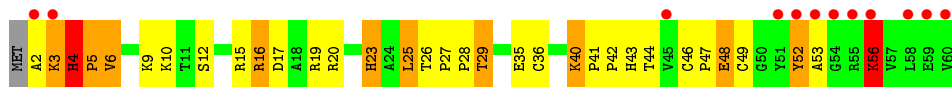


- Molecule 27: 50S ribosomal protein L32

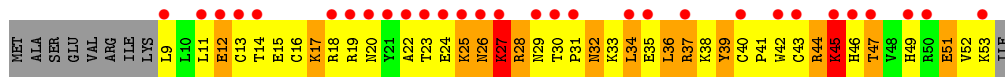




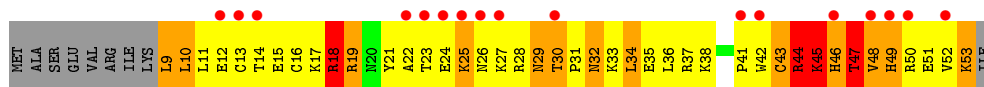
• Molecule 27: 50S ribosomal protein L32



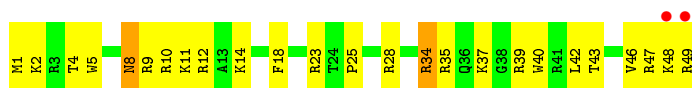
• Molecule 28: 50S ribosomal protein L33



• Molecule 28: 50S ribosomal protein L33



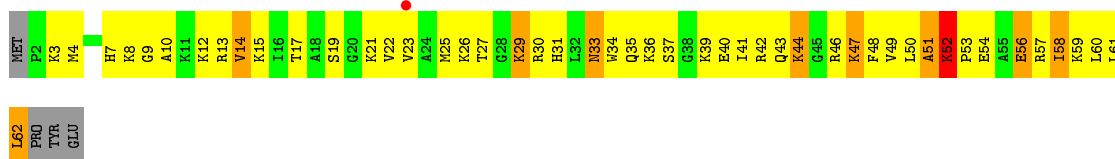
• Molecule 29: 50S ribosomal protein L34

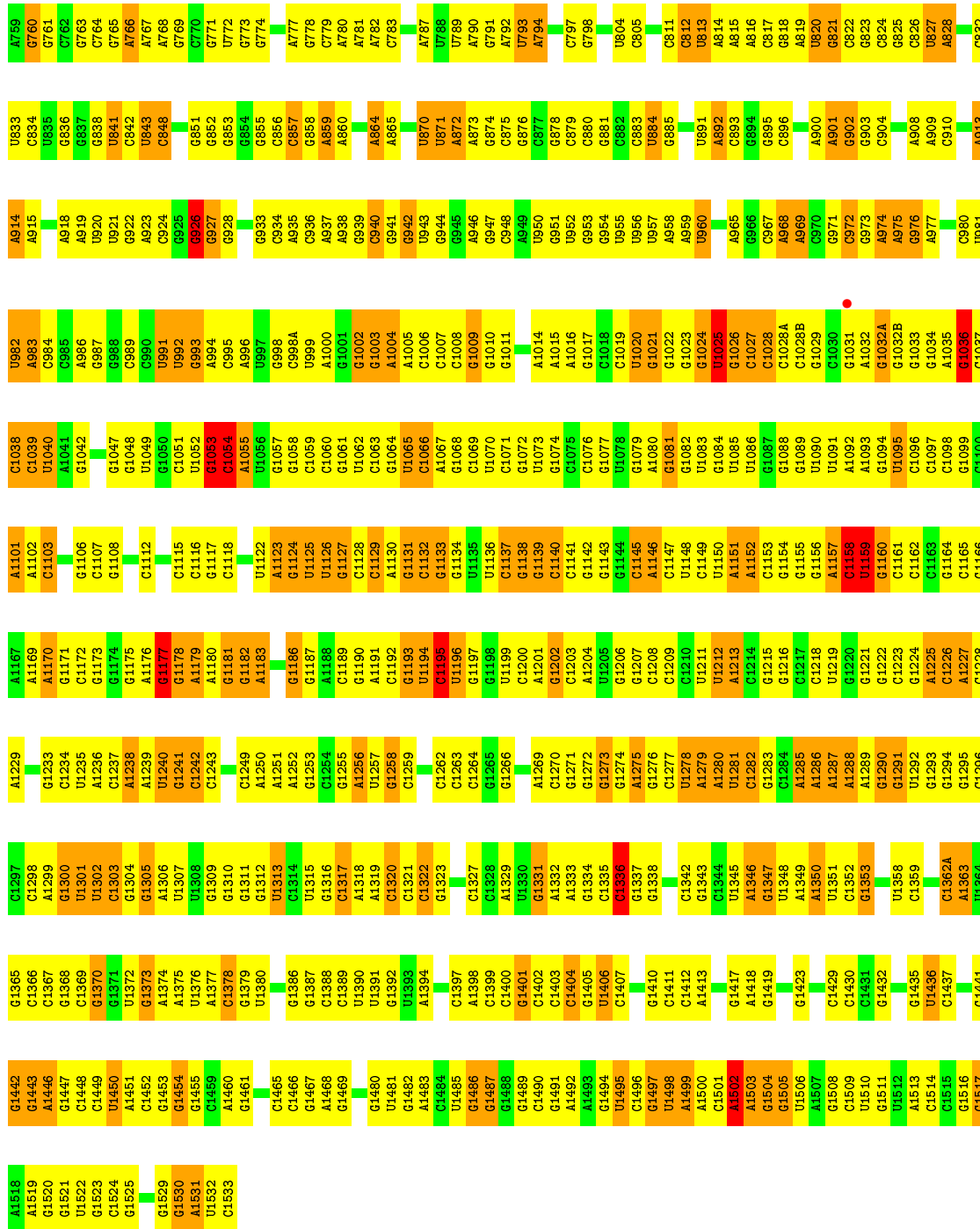


• Molecule 29: 50S ribosomal protein L34

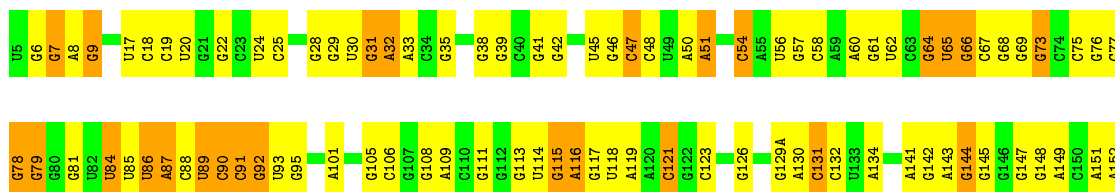
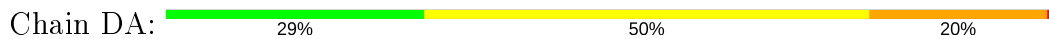


• Molecule 30: 50S ribosomal protein L35

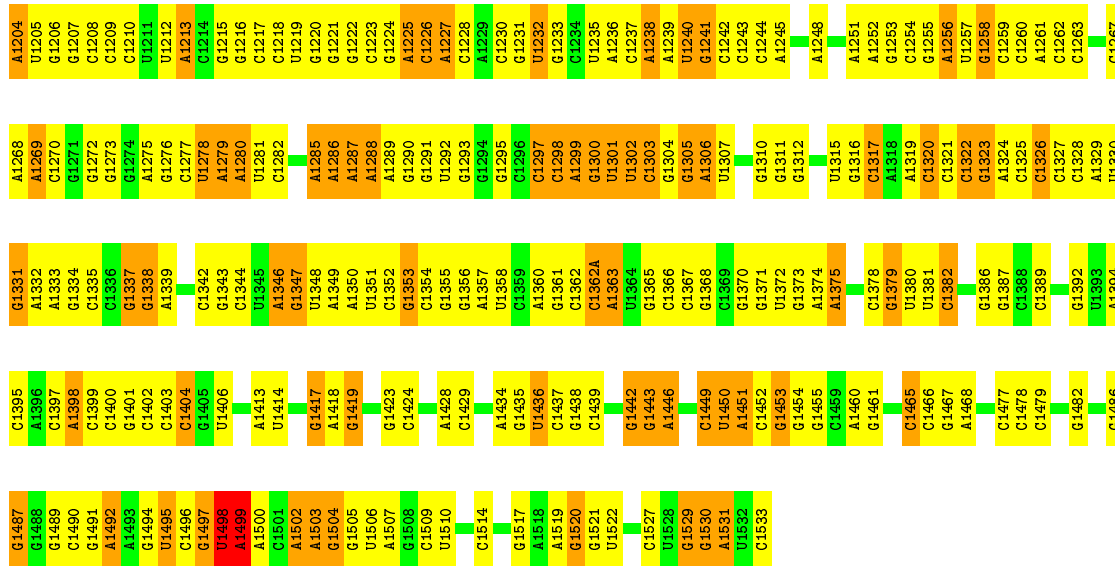




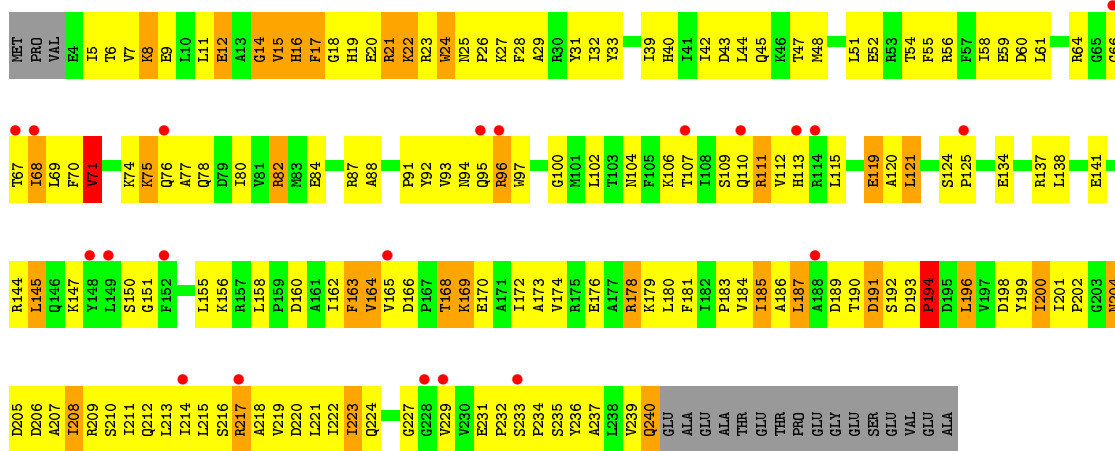
• Molecule 31: 16S ribosomal RNA



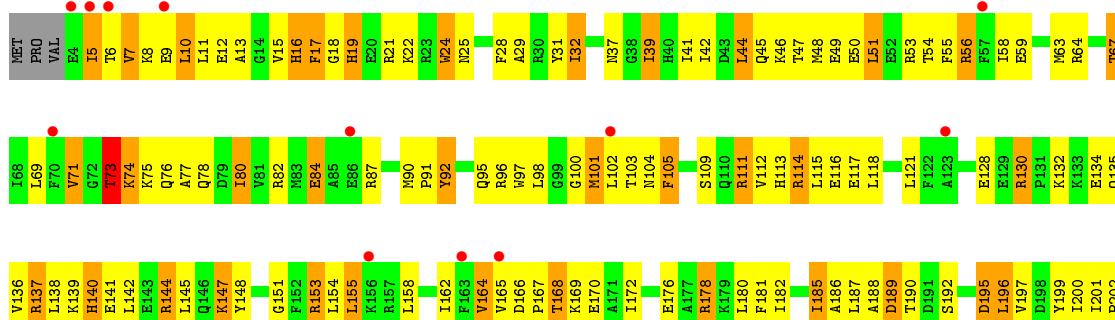
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C1018	C1019	U1020	G1021	G1022	G1023	G1024	U1025	G1026	C1027	G1028	C1028A	C1028B	G1029	C1030	G1031	A1032	G1032A	G1032B	G1033	G1034	A1035	G1036	C1037	C1038	C1039	U1040	C985	A1041	G986	G987	G988	G1043	G1042	U1044	G1045	G1046	A1046	G1047	G1048	G1051	U1052	G1053	C1054	A1055	U1056	G1057	G1058	C1059	G1060	G1061	A1062	A1063	G1064	U1065	C1066	G1067	G1068	G1069	U1070	G1071	A1014	U1015	U1016	U1017	G1073																																																																																																																																																																																																																																																																																																																																																						
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A892	C893	G894	G895	C896	C897	G898	C899	A900	A901	G902	A907	A908	A909	C910	A913	A914	A915	U920	G921	G922	C923	C924	G925	G926	G927	G928	G929	C930	C931	C932	C933	C934	A935	C936	A937	A938	G939	C940	G941	G942	U943	G944	G945	A946	A947	C948	A949	U950	G951	U952	A953	G954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073																																																																																																																																																																																																																																												
G741	G742	C745	A746	C747	C748	C749	U750	C751	G752	A753	C754	G755	U756	C757	G758	A759	G760	G761	C762	A763	A764	G765	A766	A767	A768	C769	C770	G771	G772	G773	G774	A775	G776	A777	A778	C779	A780	A781	A782	U783	U784	U785	U786	U787	U788	U789	A790	U791	A792	U793	A794	G799	G800	U801	A802	C803	U804	C805	U806	U807	U808	U809	U810	U811	U812	U813	U814	U815	U816	U817	U818	U819	U820	U821	U822	U823	U824	U825	U826	U827	U828	U829	U830	U831	U832	U833	U834	U835	U836	U837	U838	U839	U840	U841	U842	U843	U844	U845	U846	U847	U848	U849	U850	U851	U852	U853	U854	U855	U856	U857	U858	U859	U860	U861	U862	U863	U864	U865	U866	U867	U868	U869	U870	U871	U872	U873	U874	U875	U876	U877	U878	U879	U880	U881	U882	U883	U884	U885	U886	U887	U888	U889	U890	U891	U892	U893	U894	U895	U896	U897	U898	U899	U900	U901	U902	U903	U904	U905	U906	U907	U908	U909	U910	U911	U912	U913	U914	U915	U916	U917	U918	U919	U920	U921	U922	U923	U924	U925	U926	U927	U928	U929	U930	U931	U932	U933	U934	U935	U936	U937	U938	U939	U940	U941	U942	U943	U944	U945	U946	U947	U948	U949	U950	U951	U952	U953	U954	U955	U956	U957	U958	U959	U960	U961	U962	U963	U964	U965	U966	U967	U968	U969	U970	U971	U972	U973	U974	U975	U976	U977	U978	U979	U980	U981	U982	U983	U984	U985	U986	U987	U988	U989	U990	U991	U992	U993	U994	U995	U996	U997	U998	U999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073																																																																																	
G666	G667	G668	U669	C670	G671	G672	A673	A674	A675	A676	A677	A678	A679	A680	A681	A682	A683	A684	A685	A686	A687	A688	A689	A690	A691	A692	A693	A694	A695	A696	A697	A698	A699	A700	A701	A702	A703	A704	A705	A706	A707	A708	A709	A710	A711	A712	A713	A714	A715	A716	A717	A718	A719	A720	A721	A722	A723	A724	A725	A726	A727	A728	A729	A730	A731	A732	A733	A734	A735	A736	A737	A738	A739	A740	A741	A742	A743	A744	A745	A746	A747	A748	A749	A750	A751	A752	A753	A754	A755	A756	A757	A758	A759	A760	A761	A762	A763	A764	A765	A766	A767	A768	A769	A770	A771	A772	A773	A774	A775	A776	A777	A778	A779	A780	A781	A782	A783	A784	A785	A786	A787	A788	A789	A790	A791	A792	A793	A794	A795	A796	A797	A798	A799	A800	A801	A802	A803	A804	A805	A806	A807	A808	A809	A810	A811	A812	A813	A814	A815	A816	A817	A818	A819	A820	A821	A822	A823	A824	A825	A826	A827	A828	A829	A830	A831	A832	A833	A834	A835	A836	A837	A838	A839	A840	A841	A842	A843	A844	A845	A846	A847	A848	A849	A850	A851	A852	A853	A854	A855	A856	A857	A858	A859	A860	A861	A862	A863	A864	A865	A866	A867	A868	A869	A870	A871	A872	A873	A874	A875	A876	A877	A878	A879	A880	A881	A882	A883	A884	A885	A886	A887	A888	A889	A890	A891	A892	A893	A894	A895	A896	A897	A898	A899	A900	A901	A902	A903	A904	A905	A906	A907	A908	A909	A910	A911	A912	A913	A914	A915	A916	A917	A918	A919	A920	A921	A922	A923	A924	A925	A926	A927	A928	A929	A930	A931	A932	A933	A934	A935	A936	A937	A938	A939	A940	A941	A942	A943	A944	A945	A946	A947	A948	A949	A950	A951	A952	A953	A954	A955	A956	A957	A958	A959	A960	A961	A962	A963	A964	A965	A966	A967	A968	A969	A970	A971	A972	A973	A974	A975	A976	A977	A978	A979	A980	A981	A982	A983	A984	A985	A986	A987	A988	A989	A990	A991	A992	A993	A994	A995	A996	A997	A998	A999	U1000	U1001	U1002	U1003	U1004	U1005	U1006	U1007	U1008	U1009	U1010	U1011	U1012	U1013	U1014	U1015	U1016	U1017	U1018	U1019	U1020	U1021	U1022	U1023	U1024	U1025	U1026	U1027	U1028	U1029	U1030	U1031	U1032	U1033	U1034	U1035	U1036	U1037	U1038	U1039	U1040	U1041	U1042	U1043	U1044	U1045	U1046	U1047	U1048	U1049	U1050	U1051	U1052	U1053	U1054	U1055	U1056	U1057	U1058	U1059	U1060	U1061	U1062	U1063	U1064	U1065	U1066	U1067	U1068	U1069	U1070	U1071	U1072	U1073
C372	A373	A374	U375	G376	C379	C382	A383	G384	C385	C386	U387	C390	G391	G392	A393	C394	C395	C396	C397	C398	C402	U403	U404	U405	G406	G407	A408	C409	G410	G411	A412	G413	A414	A415	G416	C417	C418	C419	U420	U421	C422	G423	G424	G425	G426	U427	G428	C429	G430	G431	G432	G433	G434	G435	G436	G437	G438	G439	G440	G441	G442	G443	G444	G445	G446	G447	G448	G449	G450	G451	G452	G453	G454	G455	G456	G457	G458	G459	G460	G461	G462	G463	G464	G465	G466	G467	G468	G469	G470	G471	G472	G473	G474	G475	G476	G477	G478	G479	G480	G481	G482	G483	G484	G485	G486	G487	G488	G489	G490	G491	G492	G493	G494	G495	G496	G497	G498	G499	G500	G501	G502	G503	G504	G505	G506	G507	G508	G509	G510	G511	G512	G513	G514	G515	G516	G517	G518	G519	G520	G521	G522	G523	G524	G525	G526	G527	G528	G529	G530	G531	G532	G533	G534	G535	G536	G537	G538	G539	G540	G541	G542	G543	G5																																																																																																																																																																																																																																																				

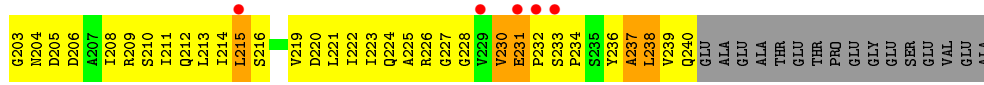


• Molecule 32: 30S RIBOSOMAL PROTEIN S2

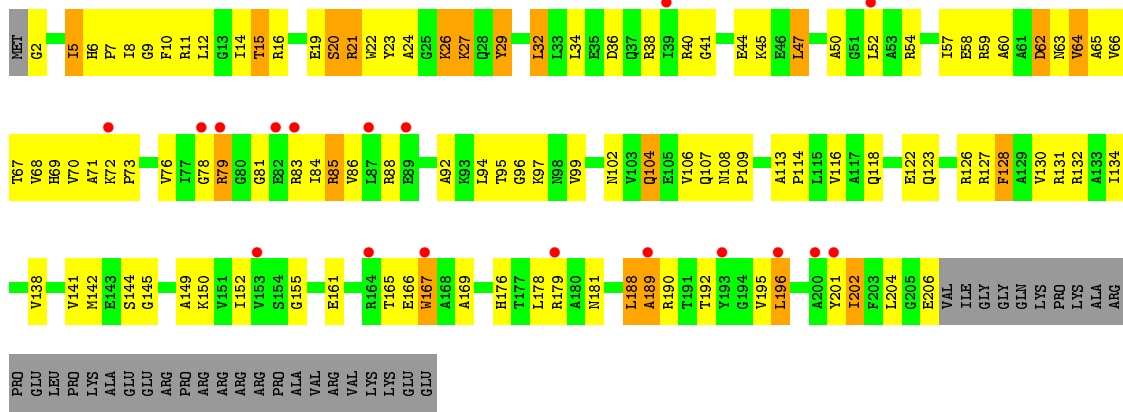


• Molecule 32: 30S RIBOSOMAL PROTEIN S2

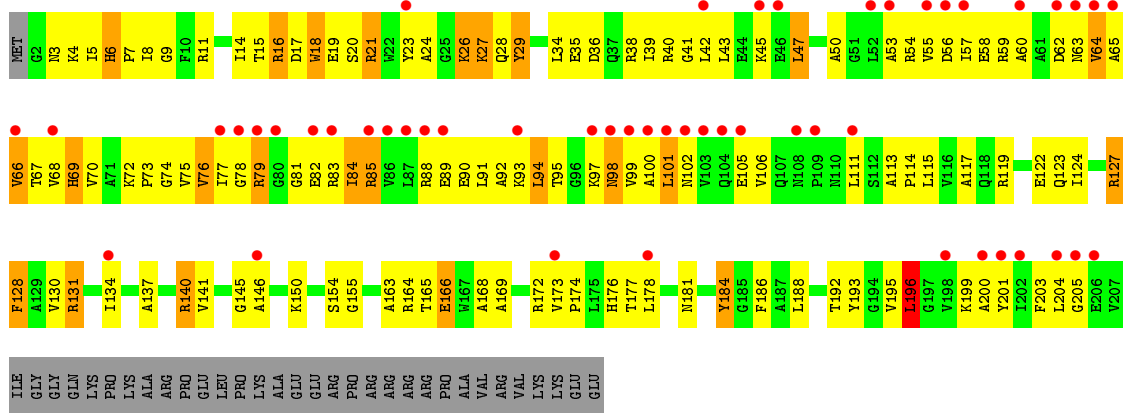




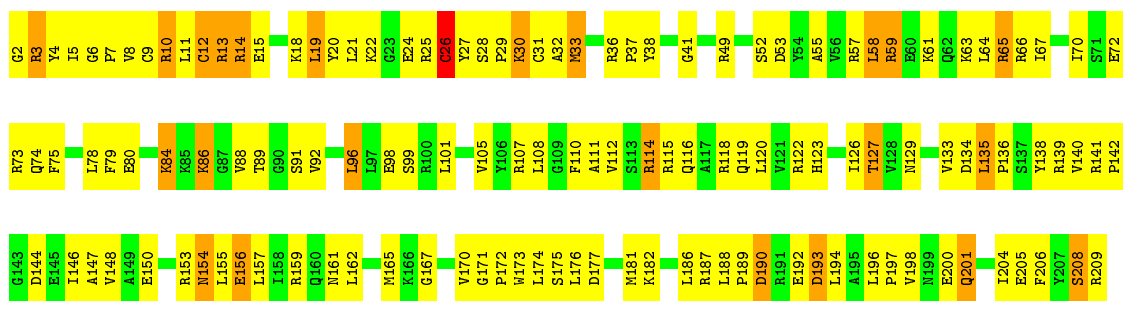
• Molecule 33: 30S RIBOSOMAL PROTEIN S3



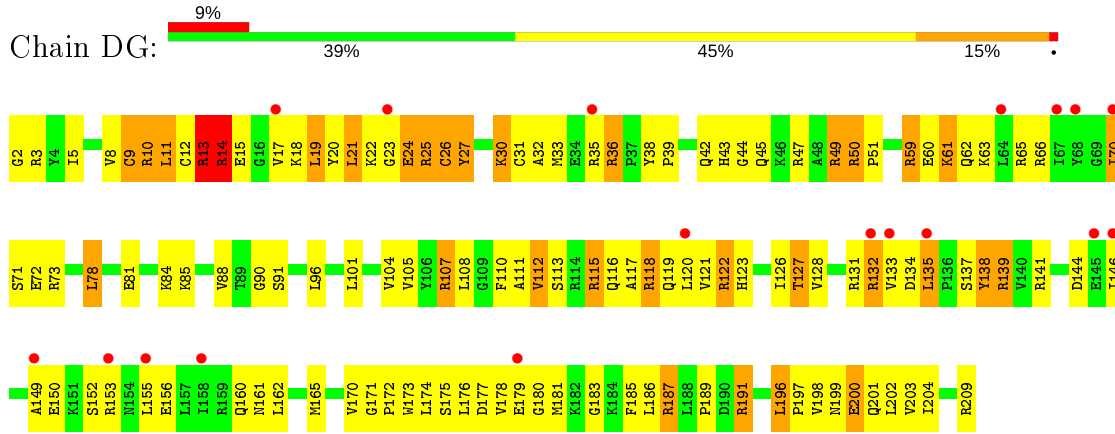
• Molecule 33: 30S RIBOSOMAL PROTEIN S3



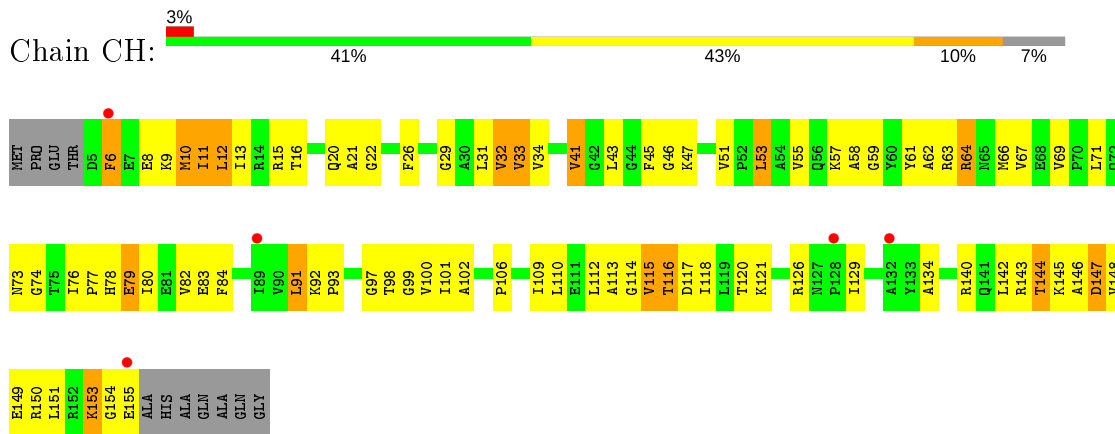
• Molecule 34: 30S RIBOSOMAL PROTEIN S4



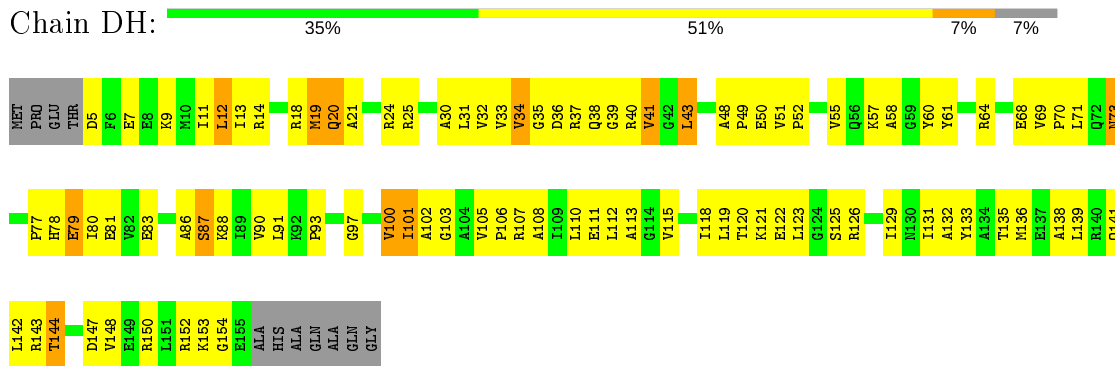
- Molecule 34: 30S RIBOSOMAL PROTEIN S4



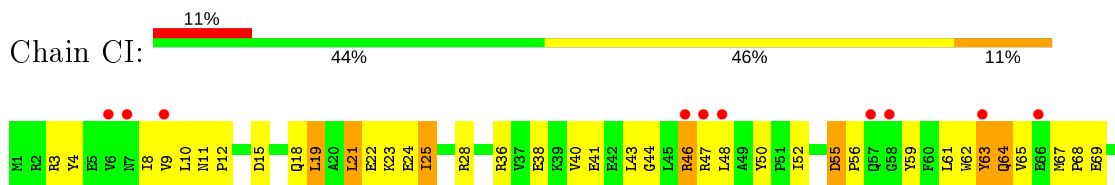
- Molecule 35: 30S RIBOSOMAL PROTEIN S5

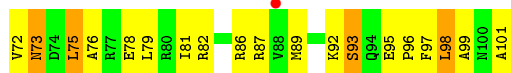


- Molecule 35: 30S RIBOSOMAL PROTEIN S5

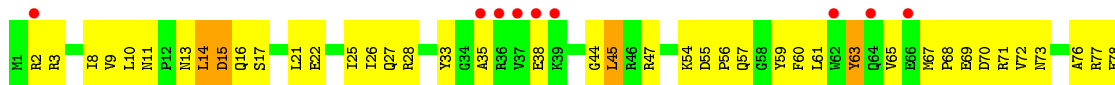


- Molecule 36: 30S RIBOSOMAL PROTEIN S6

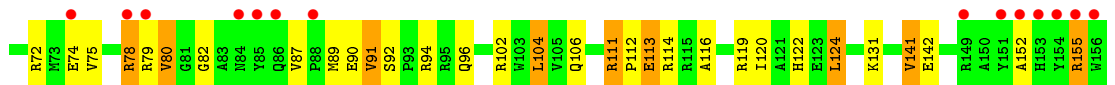
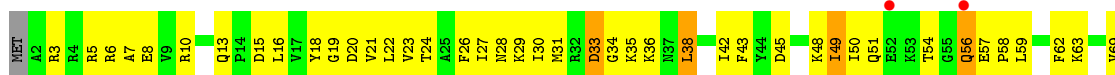




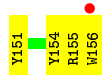
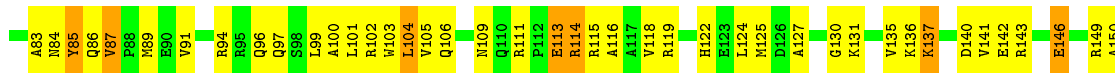
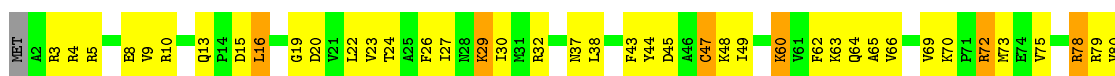
• Molecule 36: 30S RIBOSOMAL PROTEIN S6



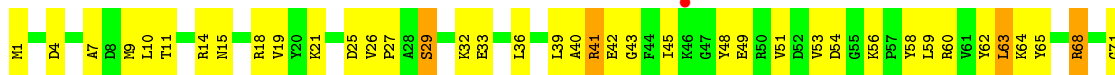
• Molecule 37: 30S RIBOSOMAL PROTEIN S7



• Molecule 37: 30S RIBOSOMAL PROTEIN S7



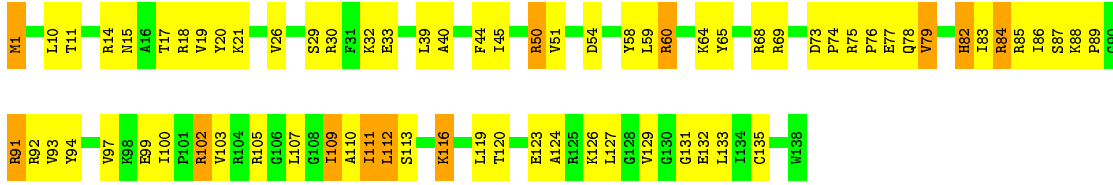
• Molecule 38: 30S RIBOSOMAL PROTEIN S8



W138

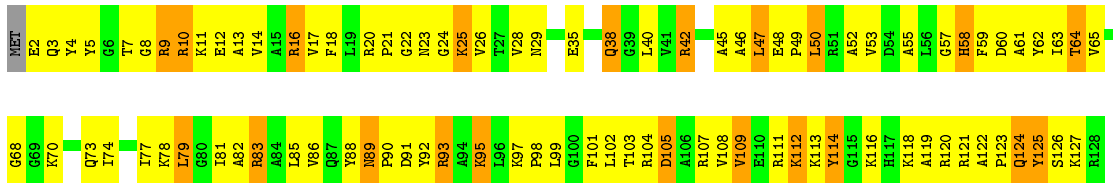
• Molecule 38: 30S RIBOSOMAL PROTEIN S8

Chain DK: 48% 43% 9%



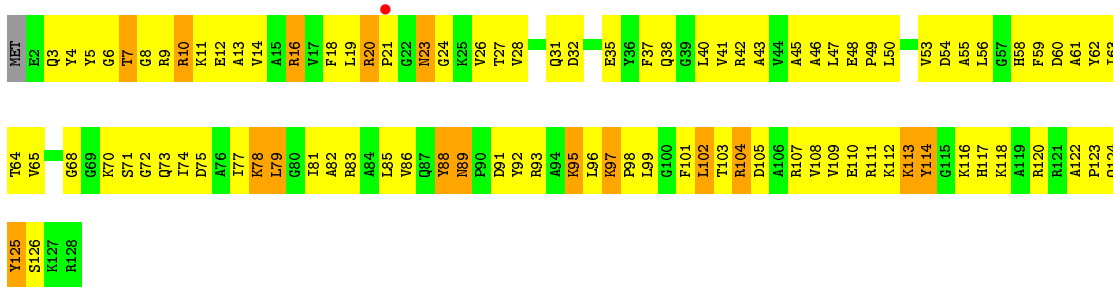
• Molecule 39: 30S RIBOSOMAL PROTEIN S9

Chain CL: 28% 55% 16%



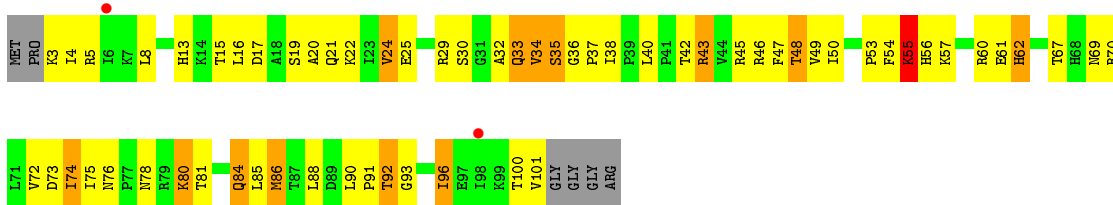
• Molecule 39: 30S RIBOSOMAL PROTEIN S9

Chain DL: 24% 63% 13%



• Molecule 40: 30S RIBOSOMAL PROTEIN S10

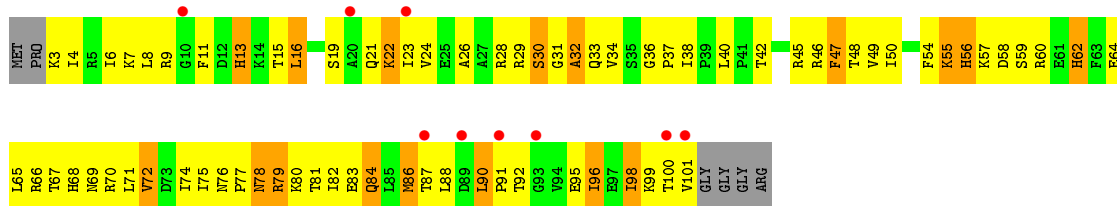
Chain CM: 2% 35% 46% 12% 6%



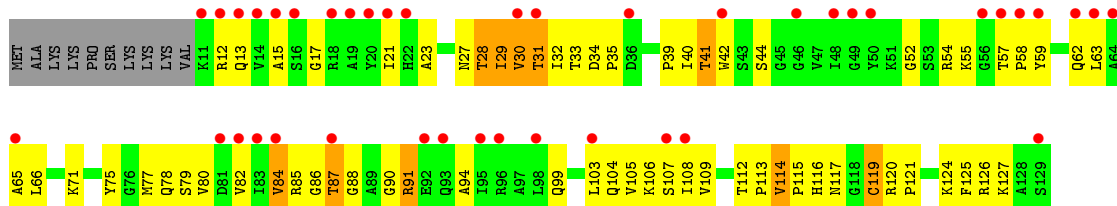
• Molecule 40: 30S RIBOSOMAL PROTEIN S10

Chain DM: 9% 24% 54% 16% 6%

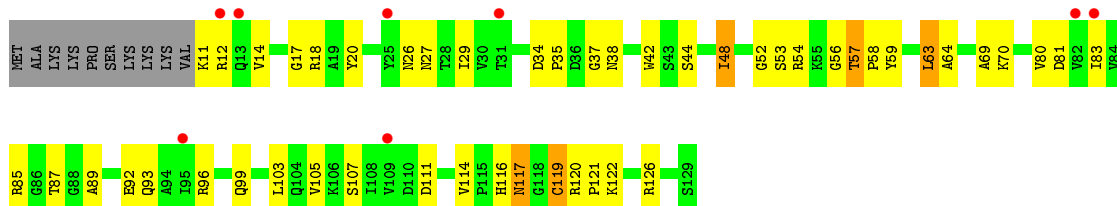




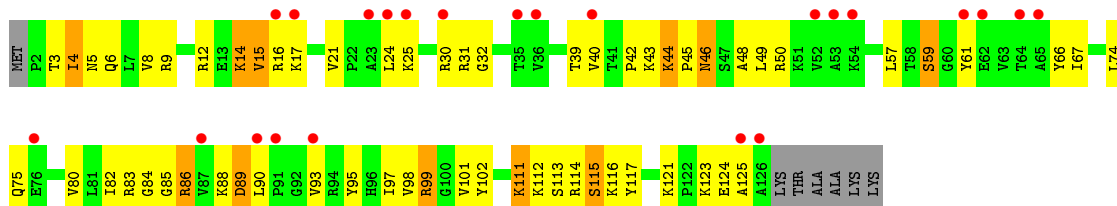
• Molecule 41: 30S RIBOSOMAL PROTEIN S11



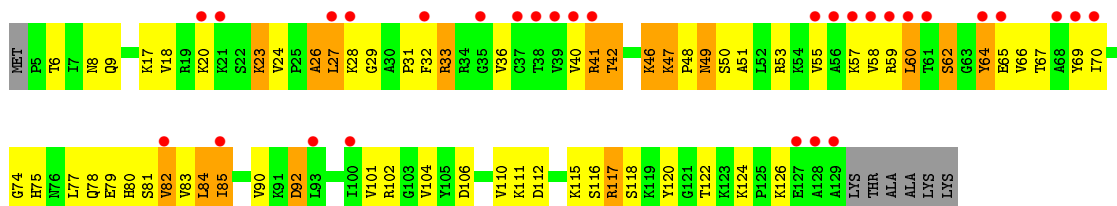
• Molecule 41: 30S RIBOSOMAL PROTEIN S11



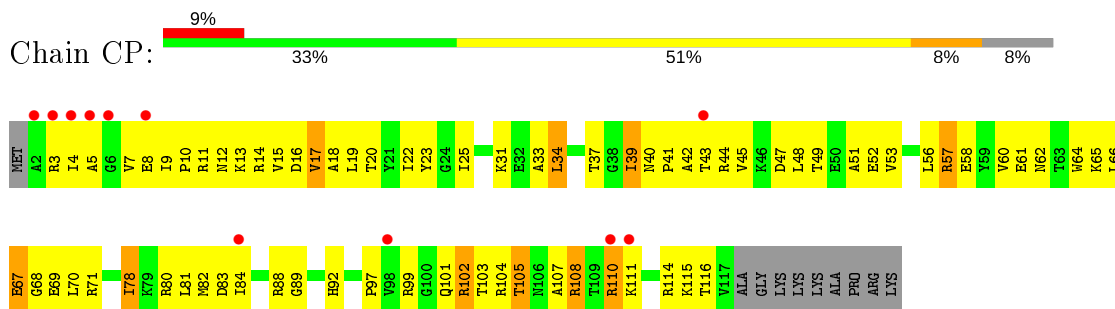
• Molecule 42: 30S RIBOSOMAL PROTEIN S12



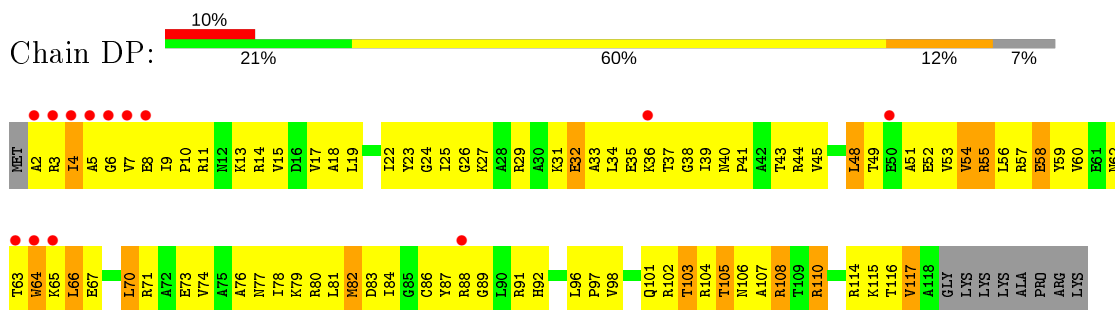
• Molecule 42: 30S RIBOSOMAL PROTEIN S12



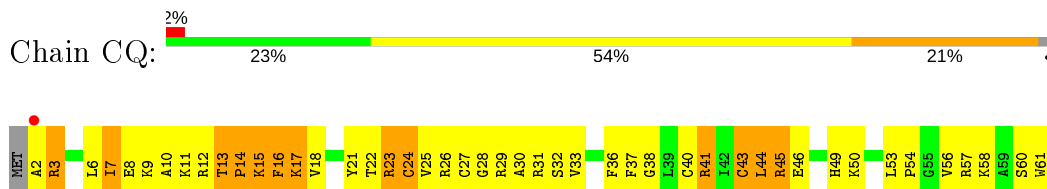
- Molecule 43: 30S RIBOSOMAL PROTEIN S13



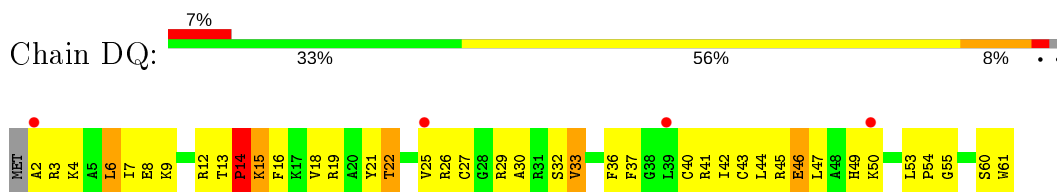
- Molecule 43: 30S RIBOSOMAL PROTEIN S13



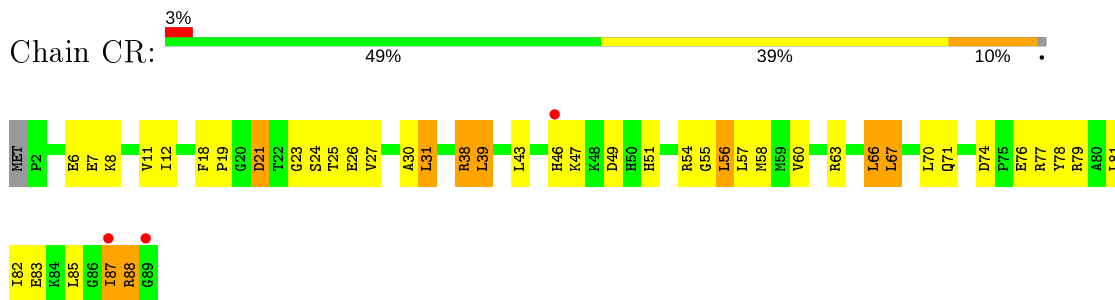
- Molecule 44: 30S RIBOSOMAL PROTEIN S14



- Molecule 44: 30S RIBOSOMAL PROTEIN S14

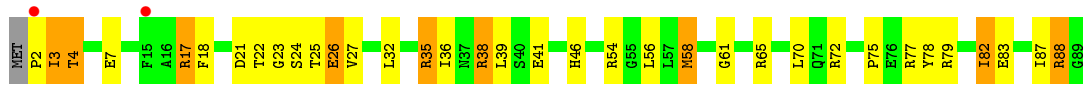


- Molecule 45: 30S RIBOSOMAL PROTEIN S15

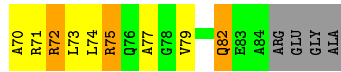
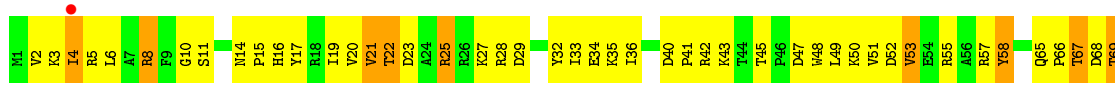


- Molecule 45: 30S RIBOSOMAL PROTEIN S15





• Molecule 46: 30S RIBOSOMAL PROTEIN S16



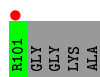
• Molecule 46: 30S RIBOSOMAL PROTEIN S16



• Molecule 47: 30S RIBOSOMAL PROTEIN S17

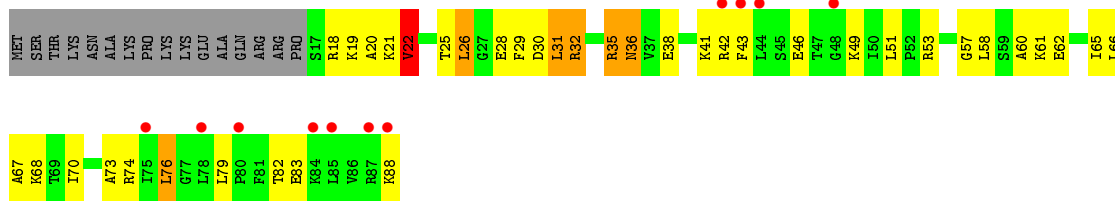


• Molecule 47: 30S RIBOSOMAL PROTEIN S17

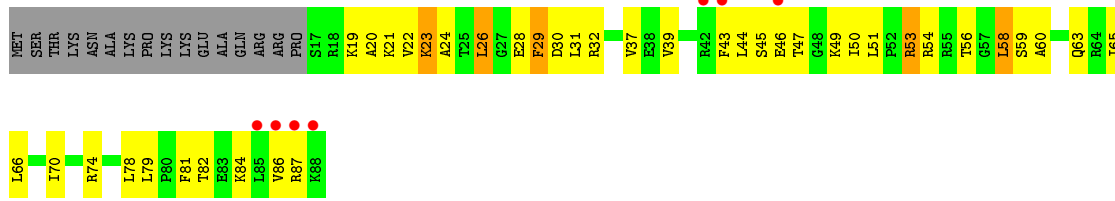


• Molecule 48: 30S RIBOSOMAL PROTEIN S18

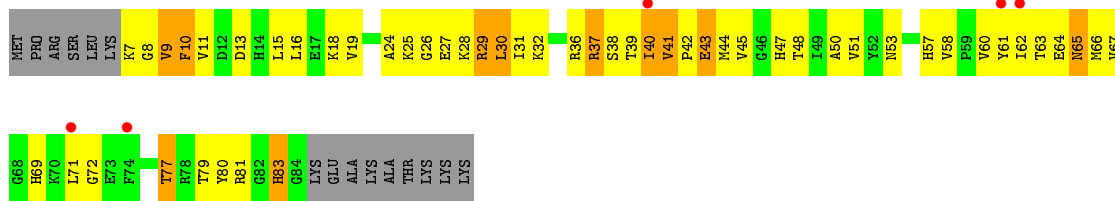




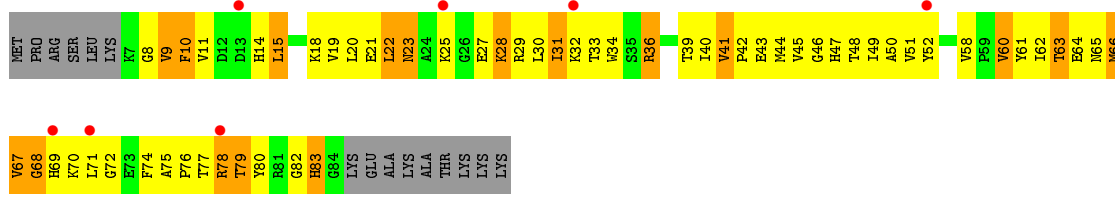
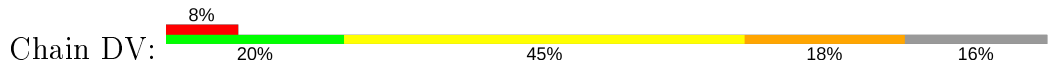
● Molecule 48: 30S RIBOSOMAL PROTEIN S18



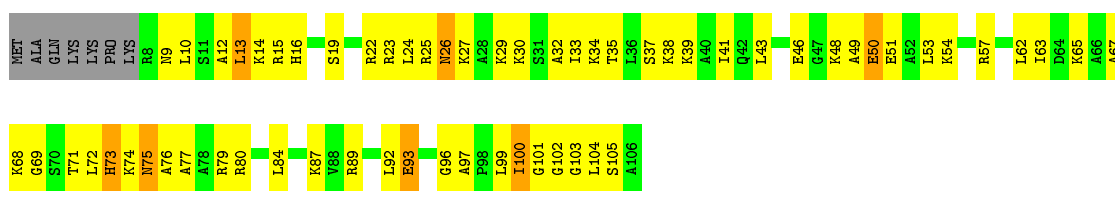
● Molecule 49: 30S RIBOSOMAL PROTEIN S19



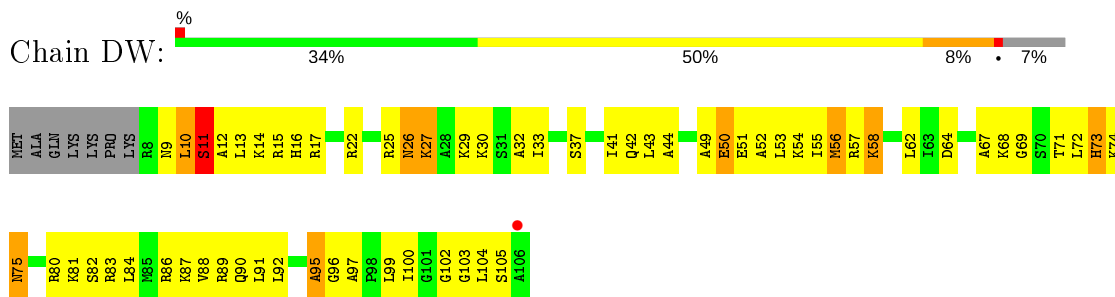
● Molecule 49: 30S RIBOSOMAL PROTEIN S19



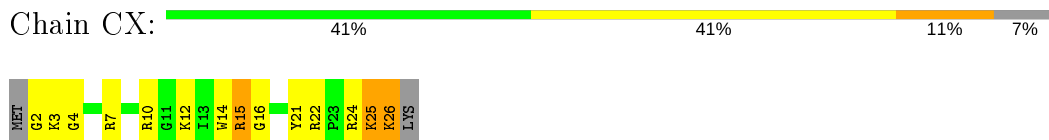
● Molecule 50: 30S RIBOSOMAL PROTEIN S20



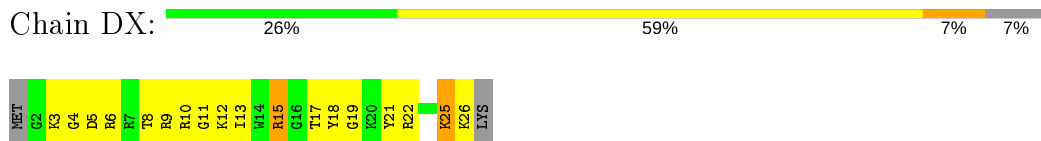
● Molecule 50: 30S RIBOSOMAL PROTEIN S20



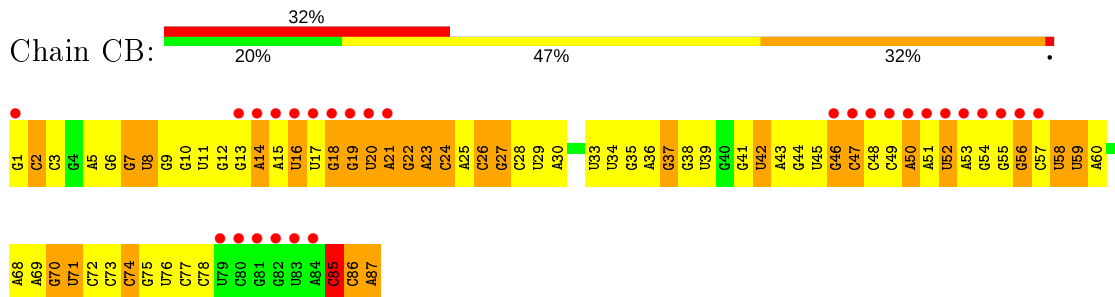
• Molecule 51: 30S RIBOSOMAL PROTEIN THX



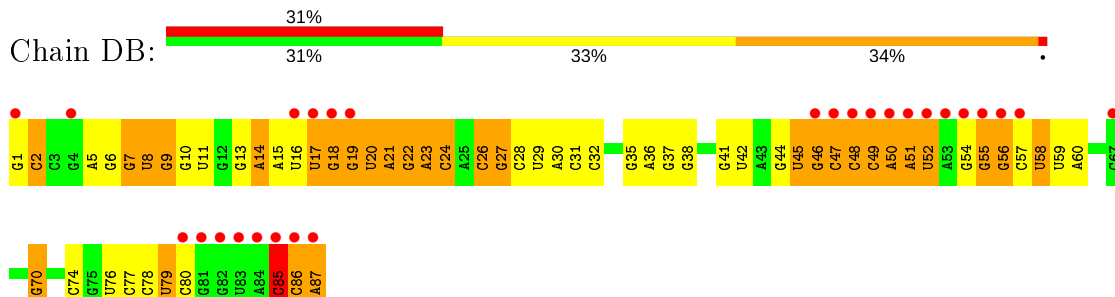
• Molecule 51: 30S RIBOSOMAL PROTEIN THX



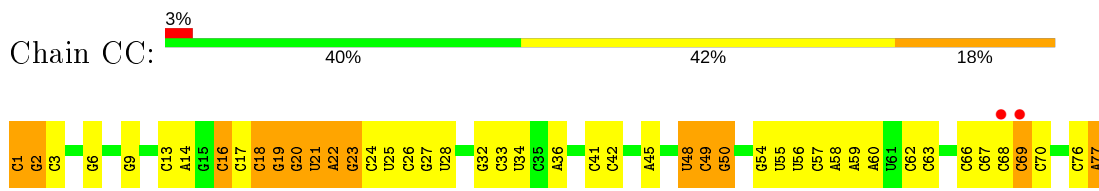
• Molecule 52: TRNA-LEU



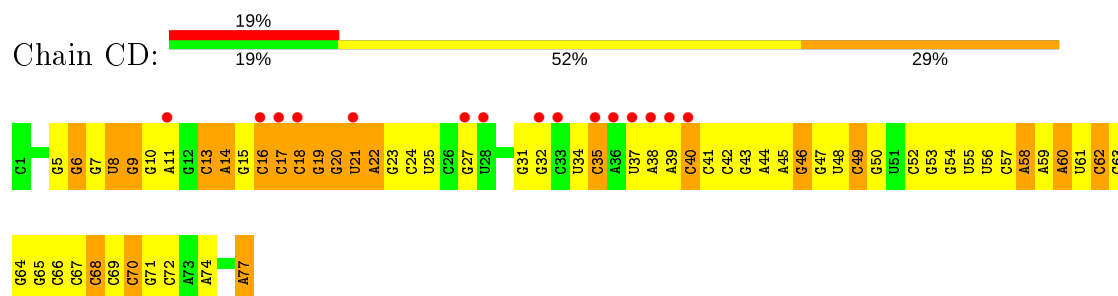
• Molecule 52: TRNA-LEU



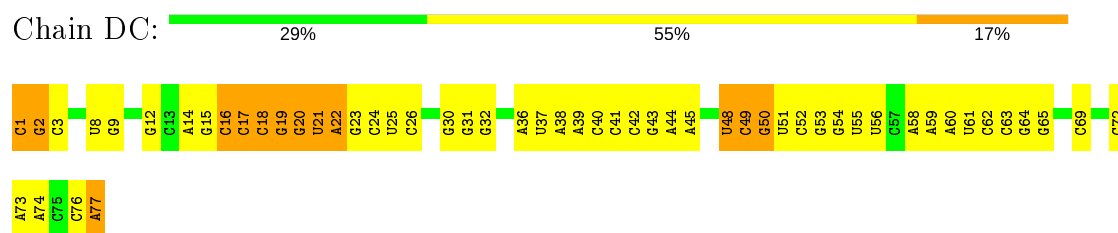
• Molecule 53: TRNA-FMET



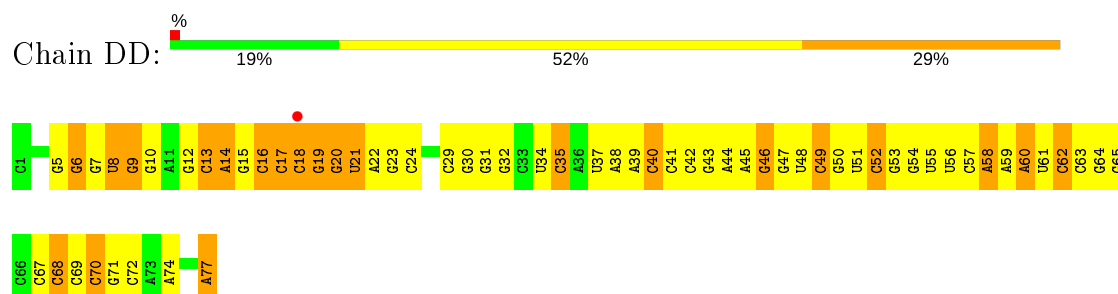
- Molecule 53: TRNA-FMET



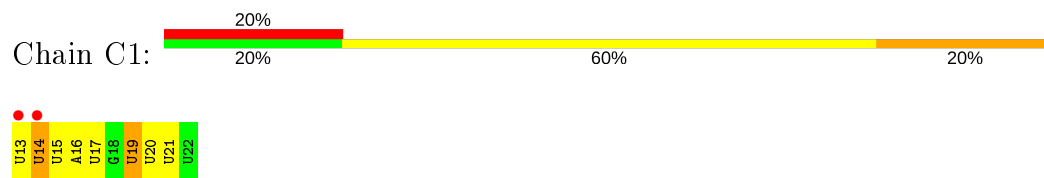
- Molecule 53: TRNA-FMET



- Molecule 53: TRNA-FMET



- Molecule 54: MRNA



- Molecule 54: MRNA



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.43Å 448.15Å 619.40Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	189.73 – 3.30 224.07 – 3.30	Depositor EDS
% Data completeness (in resolution range)	100.0 (189.73-3.30) 95.4 (224.07-3.30)	Depositor EDS
R_{merge}	0.28	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.35 (at 3.33Å)	Xtrriage
Refinement program	PHENIX 1.7.1_743	Depositor
R, R_{free}	0.199 , 0.237 0.198 , 0.237	Depositor DCC
R_{free} test set	2000 reflections (0.23%)	wwPDB-VP
Wilson B-factor (Å ²)	102.7	Xtrriage
Anisotropy	0.186	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.28 , 87.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.28$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	299682	wwPDB-VP
Average B, all atoms (Å ²)	114.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.60% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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

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	0.62	12/70233 (0.0%)	1.11	353/109643 (0.3%)
1	BA	0.56	6/70167 (0.0%)	1.03	240/109541 (0.2%)
2	AB	0.53	0/2928	1.07	13/4568 (0.3%)
2	BB	0.45	0/2928	0.93	6/4568 (0.1%)
3	AD	0.55	0/2165	0.81	3/2919 (0.1%)
3	BD	0.47	0/2165	0.73	1/2919 (0.0%)
4	AE	0.44	0/1601	0.73	1/2160 (0.0%)
4	BE	0.41	0/1601	0.72	1/2160 (0.0%)
5	AF	0.45	0/1620	0.72	0/2194
5	BF	0.38	0/1662	0.67	0/2249
6	AG	0.36	0/1499	0.60	0/2016
6	BG	0.30	0/1499	0.55	0/2016
7	AH	0.41	0/1332	0.71	0/1802
7	BH	0.29	0/1332	0.58	0/1802
8	AK	0.38	0/1151	0.72	1/1558 (0.1%)
8	BK	0.36	0/1151	0.66	1/1558 (0.1%)
9	AM	0.45	0/1131	0.71	0/1525
9	BM	0.32	0/1131	0.58	0/1525
10	AN	0.41	0/943	0.66	0/1269
10	BN	0.40	0/943	0.61	0/1269
11	AO	0.39	0/1162	0.71	1/1544 (0.1%)
11	BO	0.33	0/1162	0.64	1/1544 (0.1%)
12	AP	0.41	0/1143	0.59	0/1527
12	BP	0.33	0/1143	0.52	0/1527
13	A0	0.41	0/982	0.71	1/1312 (0.1%)
13	B0	0.40	0/974	0.67	0/1302
14	AQ	0.40	0/892	0.69	1/1187 (0.1%)
14	BQ	0.34	0/892	0.62	1/1187 (0.1%)
15	AR	0.45	0/1155	0.70	0/1542
15	BR	0.41	0/1155	0.63	0/1542
16	A1	0.46	0/982	0.67	0/1306
16	B1	0.38	0/982	0.59	0/1306

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	A2	0.44	0/790	0.71	0/1057
17	B2	0.33	0/790	0.59	0/1057
18	AS	0.43	0/911	0.69	0/1220
18	BS	0.42	0/911	0.65	0/1220
19	AT	0.52	0/739	0.69	0/993
19	BT	0.48	0/739	0.66	0/993
20	AU	0.48	0/798	0.72	0/1064
20	BU	0.43	0/798	0.72	0/1064
21	AV	0.35	0/1427	0.67	2/1935 (0.1%)
21	BV	0.28	0/1460	0.56	0/1982
22	A3	0.46	0/615	0.69	0/819
22	B3	0.40	0/621	0.64	0/827
23	AZ	0.46	0/770	0.78	0/1022
23	BZ	0.43	0/770	0.75	0/1022
24	AW	0.51	0/560	0.75	0/741
24	BW	0.40	0/583	0.62	0/771
25	AX	0.35	0/474	0.61	0/635
25	BX	0.33	0/474	0.54	0/635
26	A4	0.39	0/545	0.73	1/733 (0.1%)
26	B4	0.34	0/527	0.65	0/709
27	A5	0.45	0/473	0.67	0/639
27	B5	0.40	0/473	0.73	0/639
28	A6	0.47	0/396	0.68	0/529
28	B6	0.36	0/396	0.60	0/529
29	A7	0.50	0/438	0.71	0/575
29	B7	0.40	0/438	0.62	0/575
30	A8	0.56	0/494	0.87	0/649
30	B8	0.40	0/494	0.58	0/649
31	CA	0.49	1/36234 (0.0%)	0.94	68/56554 (0.1%)
31	DA	0.46	0/36237	0.90	64/56558 (0.1%)
32	CE	0.31	0/1959	0.55	0/2642
32	DE	0.30	0/1959	0.54	0/2642
33	CF	0.34	0/1629	0.54	0/2195
33	DF	0.32	0/1636	0.57	1/2205 (0.0%)
34	CG	0.42	1/1733 (0.1%)	0.62	0/2318
34	DG	0.38	0/1733	0.63	0/2318
35	CH	0.38	0/1171	0.58	0/1576
35	DH	0.34	0/1171	0.58	0/1576
36	CI	0.38	0/856	0.58	0/1154
36	DI	0.36	0/856	0.55	0/1154
37	CJ	0.31	0/1276	0.48	0/1709
37	DJ	0.32	0/1276	0.48	0/1709
38	CK	0.36	0/1136	0.64	0/1527

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DK	0.31	0/1136	0.54	0/1527
39	CL	0.30	0/1029	0.52	0/1379
39	DL	0.29	0/1029	0.53	0/1379
40	CM	0.32	0/814	0.61	1/1095 (0.1%)
40	DM	0.31	0/814	0.59	0/1095
41	CN	0.37	0/900	0.61	0/1213
41	DN	0.36	0/900	0.59	0/1213
42	CO	0.45	0/991	0.75	1/1327 (0.1%)
42	DO	0.41	0/991	0.65	0/1327
43	CP	0.33	0/938	0.59	0/1258
43	DP	0.29	0/943	0.53	0/1265
44	CQ	0.42	1/501 (0.2%)	0.68	1/664 (0.2%)
44	DQ	0.32	0/501	0.57	0/664
45	CR	0.38	0/745	0.64	0/992
45	DR	0.35	0/745	0.53	0/992
46	CS	0.31	0/721	0.55	0/970
46	DS	0.38	0/721	0.60	0/970
47	CT	0.36	0/847	0.56	0/1131
47	DT	0.34	0/847	0.55	0/1131
48	CU	0.35	0/596	0.62	0/790
48	DU	0.36	0/596	0.57	0/790
49	CV	0.34	0/638	0.57	0/860
49	DV	0.29	0/638	0.63	0/860
50	CW	0.32	0/765	0.55	0/1007
50	DW	0.35	0/765	0.63	0/1007
51	CX	0.29	0/221	0.49	0/288
51	DX	0.27	0/221	0.48	0/288
52	CB	0.44	0/2080	0.80	1/3242 (0.0%)
52	DB	0.46	0/2080	0.80	3/3242 (0.1%)
53	CC	0.46	0/1835	0.85	0/2859
53	CD	0.28	0/1835	0.66	2/2859 (0.1%)
53	DC	0.44	0/1835	0.83	0/2859
53	DD	0.27	0/1835	0.63	1/2859 (0.0%)
54	C1	0.69	0/226	0.84	0/348
54	D1	0.58	0/226	0.81	0/348
All	All	0.51	21/324077 (0.0%)	0.93	771/485305 (0.2%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
3	AD	0	6
3	BD	0	3
4	AE	0	1
4	BE	0	6
5	BF	0	2
6	AG	0	1
6	BG	0	1
7	AH	0	2
7	BH	0	4
8	AK	0	5
8	BK	0	5
9	AM	0	1
11	AO	0	3
11	BO	0	3
13	B0	0	1
14	AQ	0	2
14	BQ	0	3
15	AR	0	2
16	A1	0	2
17	A2	0	1
20	BU	0	2
21	AV	0	3
21	BV	0	3
22	A3	0	2
24	AW	0	2
24	BW	0	1
26	A4	0	3
26	B4	0	1
27	A5	0	3
27	B5	0	1
28	A6	0	1
28	B6	0	1
30	A8	0	2
32	CE	0	3
32	DE	0	4
33	CF	0	1
33	DF	0	1
34	DG	0	1
38	CK	0	1
40	CM	0	1
40	DM	0	1
42	CO	0	2
44	CQ	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
44	DQ	0	1
45	CR	0	1
50	DW	0	1
All	All	0	98

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	BA	1143	A	N7-C5	-9.76	1.33	1.39
1	BA	1342	A	N7-C5	-8.93	1.33	1.39
1	BA	2873	A	N7-C5	-8.51	1.34	1.39
1	BA	2287	A	N9-C4	-8.15	1.32	1.37
1	AA	1021	A	N9-C4	-8.08	1.32	1.37

The worst 5 of 771 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	CA	1025	U	C5-C4-O4	-13.19	117.99	125.90
1	BA	933	A	C6-C5-N7	-12.57	123.50	132.30
1	AA	1899	G	N3-C4-N9	-12.39	118.57	126.00
1	BA	1899	G	N3-C4-N9	-12.35	118.59	126.00
1	BA	2720	U	C2-N3-C4	-11.91	119.85	127.00

There are no chirality outliers.

5 of 98 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	AD	122	ASP	Peptide
3	AD	236	GLY	Peptide
3	AD	27	THR	Peptide
3	AD	28	GLU	Peptide
3	AD	47	GLY	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	62707	0	31613	2746	0
1	BA	62647	0	31583	2774	1
2	AB	2617	0	1328	105	0
2	BB	2617	0	1328	133	0
3	AD	2115	0	2195	263	0
3	BD	2115	0	2195	244	0
4	AE	1568	0	1634	288	0
4	BE	1568	0	1634	286	0
5	AF	1585	0	1632	143	0
5	BF	1627	0	1680	208	0
6	AG	1474	0	1535	200	0
6	BG	1474	0	1535	164	0
7	AH	1307	0	1382	158	0
7	BH	1307	0	1382	148	2
8	AK	1136	0	1223	128	0
8	BK	1136	0	1223	102	0
9	AM	1104	0	1180	139	0
9	BM	1104	0	1180	102	0
10	AN	933	0	996	53	0
10	BN	933	0	996	68	0
11	AO	1145	0	1228	245	0
11	BO	1145	0	1228	306	0
12	AP	1122	0	1179	208	0
12	BP	1122	0	1179	250	0
13	A0	968	0	1033	81	0
13	B0	960	0	1021	82	0
14	AQ	882	0	943	101	0
14	BQ	882	0	943	104	0
15	AR	1141	0	1202	128	0
15	BR	1141	0	1202	132	0
16	A1	964	0	1022	109	0
16	B1	964	0	1022	108	0
17	A2	779	0	852	98	1
17	B2	779	0	852	182	0
18	AS	900	0	964	86	0
18	BS	900	0	964	56	0
19	AT	725	0	778	60	0
19	BT	725	0	778	60	0
20	AU	785	0	878	95	0
20	BU	785	0	878	113	0
21	AV	1397	0	1430	140	0
21	BV	1428	0	1454	142	0
22	A3	607	0	628	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	B3	613	0	633	59	0
23	AZ	763	0	848	61	0
23	BZ	763	0	848	59	0
24	AW	558	0	610	47	0
24	BW	581	0	629	63	0
25	AX	469	0	518	36	0
25	BX	469	0	518	33	0
26	A4	533	0	522	78	0
26	B4	515	0	510	109	0
27	A5	459	0	480	78	1
27	B5	459	0	480	72	0
28	A6	389	0	404	90	0
28	B6	389	0	404	110	0
29	A7	430	0	480	28	0
29	B7	430	0	480	32	0
30	A8	488	0	560	105	0
30	B8	488	0	560	153	0
31	CA	32369	0	16339	1550	2
31	DA	32372	0	16338	1515	1
32	CE	1924	0	1975	186	0
32	DE	1924	0	1975	206	0
33	CF	1605	0	1668	123	0
33	DF	1612	0	1677	160	0
34	CG	1703	0	1764	180	0
34	DG	1703	0	1763	158	1
35	CH	1155	0	1213	81	0
35	DH	1155	0	1213	91	0
36	CI	843	0	857	59	1
36	DI	843	0	857	48	0
37	CJ	1257	0	1296	72	0
37	DJ	1257	0	1296	90	0
38	CK	1116	0	1177	100	0
38	DK	1116	0	1177	62	0
39	CL	1010	0	1037	111	0
39	DL	1010	0	1037	130	0
40	CM	801	0	849	86	0
40	DM	801	0	849	95	0
41	CN	885	0	904	76	0
41	DN	885	0	904	45	0
42	CO	975	0	1062	63	0
42	DO	975	0	1062	89	0
43	CP	928	0	987	77	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	DP	933	0	992	108	0
44	CQ	492	0	529	55	0
44	DQ	492	0	529	56	0
45	CR	734	0	771	55	0
45	DR	734	0	771	44	0
46	CS	705	0	725	63	0
46	DS	705	0	725	45	0
47	CT	834	0	904	79	0
47	DT	834	0	904	44	0
48	CU	591	0	662	31	0
48	DU	591	0	662	43	0
49	CV	624	0	636	74	0
49	DV	624	0	636	100	0
50	CW	763	0	861	76	0
50	DW	763	0	861	71	0
51	CX	217	0	234	20	0
51	DX	217	0	234	28	0
52	CB	1861	0	938	84	0
52	DB	1861	0	938	82	0
53	CC	1643	0	837	69	0
53	CD	1643	0	837	98	0
53	DC	1643	0	837	78	0
53	DD	1643	0	837	111	0
54	C1	205	0	103	9	0
54	D1	205	0	103	9	0
55	A0	1	0	0	0	0
55	A1	1	0	0	0	0
55	A2	1	0	0	0	0
55	A3	1	0	0	0	0
55	A5	2	0	0	0	0
55	A6	1	0	0	0	0
55	A7	2	0	0	0	0
55	AA	626	0	0	0	0
55	AB	17	0	0	0	0
55	AD	1	0	0	0	0
55	AE	4	0	0	0	0
55	AF	3	0	0	0	0
55	AO	3	0	0	0	0
55	AU	1	0	0	0	0
55	AZ	1	0	0	0	0
55	B1	1	0	0	0	0
55	B3	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	B5	1	0	0	0	0
55	BA	528	0	0	0	0
55	BB	15	0	0	0	0
55	BD	1	0	0	0	0
55	BE	3	0	0	0	0
55	BP	1	0	0	0	0
55	BR	2	0	0	0	0
55	C1	1	0	0	0	0
55	CA	240	0	0	0	0
55	CB	5	0	0	0	0
55	CC	7	0	0	0	0
55	CD	1	0	0	0	0
55	CG	2	0	0	0	0
55	CN	2	0	0	0	0
55	CQ	2	0	0	0	0
55	CT	1	0	0	0	0
55	DA	204	0	0	0	0
55	DB	2	0	0	0	0
55	DC	8	0	0	0	0
55	DG	2	0	0	0	0
55	DH	1	0	0	0	0
55	DS	1	0	0	0	0
56	CA	42	0	45	4	0
56	DA	42	0	45	5	0
57	CG	1	0	0	0	0
57	CQ	1	0	0	0	0
57	DG	1	0	0	0	0
57	DQ	1	0	0	0	0
All	All	299682	0	201028	17558	5

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 35.

The worst 5 of 17558 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)
11:BO:62:LEU:CD1	30:B8:30:ARG:HH11	1.03	1.63
11:BO:71:VAL:CG1	11:BO:72:PRO:HD3	1.32	1.59
4:AE:23:VAL:HG12	4:AE:185:LYS:CA	1.33	1.59
1:BA:2015:A:C1'	27:B5:2:ALA:HA	1.42	1.48
4:BE:51:PHE:CG	4:BE:52:LEU:HB3	1.45	1.47

All (5) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:BA:276:A:OP2	31:DA:86:U:O2'[3_555]	1.96	0.24
7:BH:100:GLY:O	31:CA:85:U:O2'[3_545]	2.02	0.18
36:CI:15:ASP:OD2	34:DG:27:TYR:OH[4_555]	2.06	0.14
7:BH:132:ARG:O	31:CA:84:U:N3[3_545]	2.18	0.02
17:A2:51:VAL:N	27:A5:60:VAL:O[4_465]	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	
3	AD	270/276 (98%)	244 (90%)	20 (7%)	6 (2%)	6	30
3	BD	270/276 (98%)	246 (91%)	15 (6%)	9 (3%)	4	22
4	AE	203/206 (98%)	149 (73%)	37 (18%)	17 (8%)	1	5
4	BE	203/206 (98%)	149 (73%)	34 (17%)	20 (10%)	0	3
5	AF	200/210 (95%)	181 (90%)	19 (10%)	0	100	100
5	BF	206/210 (98%)	172 (84%)	29 (14%)	5 (2%)	6	28
6	AG	179/182 (98%)	155 (87%)	17 (10%)	7 (4%)	3	18
6	BG	179/182 (98%)	150 (84%)	28 (16%)	1 (1%)	25	57
7	AH	168/180 (93%)	135 (80%)	25 (15%)	8 (5%)	2	14
7	BH	168/180 (93%)	129 (77%)	37 (22%)	2 (1%)	13	42
8	AK	144/148 (97%)	108 (75%)	28 (19%)	8 (6%)	2	11
8	BK	144/148 (97%)	114 (79%)	27 (19%)	3 (2%)	7	31
9	AM	136/140 (97%)	113 (83%)	17 (12%)	6 (4%)	2	16
9	BM	136/140 (97%)	120 (88%)	12 (9%)	4 (3%)	4	24
10	AN	120/122 (98%)	114 (95%)	6 (5%)	0	100	100
10	BN	120/122 (98%)	113 (94%)	6 (5%)	1 (1%)	19	51

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
11	AO	148/150 (99%)	101 (68%)	31 (21%)	16 (11%)	0	2
11	BO	148/150 (99%)	95 (64%)	32 (22%)	21 (14%)	0	1
12	AP	139/141 (99%)	101 (73%)	19 (14%)	19 (14%)	0	1
12	BP	139/141 (99%)	88 (63%)	34 (24%)	17 (12%)	0	1
13	A0	116/118 (98%)	99 (85%)	16 (14%)	1 (1%)	17	48
13	B0	115/118 (98%)	108 (94%)	7 (6%)	0	100	100
14	AQ	109/112 (97%)	87 (80%)	20 (18%)	2 (2%)	8	35
14	BQ	109/112 (97%)	87 (80%)	18 (16%)	4 (4%)	3	20
15	AR	135/146 (92%)	111 (82%)	22 (16%)	2 (2%)	10	38
15	BR	135/146 (92%)	124 (92%)	11 (8%)	0	100	100
16	A1	115/118 (98%)	105 (91%)	9 (8%)	1 (1%)	17	48
16	B1	115/118 (98%)	102 (89%)	12 (10%)	1 (1%)	17	48
17	A2	99/101 (98%)	91 (92%)	5 (5%)	3 (3%)	4	24
17	B2	99/101 (98%)	73 (74%)	13 (13%)	13 (13%)	0	1
18	AS	111/113 (98%)	102 (92%)	8 (7%)	1 (1%)	17	48
18	BS	111/113 (98%)	104 (94%)	7 (6%)	0	100	100
19	AT	90/96 (94%)	84 (93%)	4 (4%)	2 (2%)	6	30
19	BT	90/96 (94%)	81 (90%)	8 (9%)	1 (1%)	14	45
20	AU	100/110 (91%)	84 (84%)	10 (10%)	6 (6%)	1	10
20	BU	100/110 (91%)	67 (67%)	27 (27%)	6 (6%)	1	10
21	AV	173/206 (84%)	131 (76%)	35 (20%)	7 (4%)	3	18
21	BV	177/206 (86%)	139 (78%)	30 (17%)	8 (4%)	2	15
22	A3	74/85 (87%)	68 (92%)	4 (5%)	2 (3%)	5	26
22	B3	75/85 (88%)	70 (93%)	5 (7%)	0	100	100
23	AZ	95/98 (97%)	86 (90%)	6 (6%)	3 (3%)	4	22
23	BZ	95/98 (97%)	84 (88%)	10 (10%)	1 (1%)	14	45
24	AW	64/72 (89%)	60 (94%)	1 (2%)	3 (5%)	2	14
24	BW	67/72 (93%)	60 (90%)	6 (9%)	1 (2%)	10	38
25	AX	57/60 (95%)	53 (93%)	4 (7%)	0	100	100
25	BX	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
26	A4	64/71 (90%)	42 (66%)	20 (31%)	2 (3%)	4	23

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	B4	61/71 (86%)	32 (52%)	27 (44%)	2 (3%)	4	22
27	A5	57/60 (95%)	48 (84%)	8 (14%)	1 (2%)	8	35
27	B5	57/60 (95%)	48 (84%)	6 (10%)	3 (5%)	2	12
28	A6	43/54 (80%)	28 (65%)	13 (30%)	2 (5%)	2	14
28	B6	43/54 (80%)	26 (60%)	11 (26%)	6 (14%)	0	1
29	A7	47/49 (96%)	43 (92%)	4 (8%)	0	100	100
29	B7	47/49 (96%)	45 (96%)	2 (4%)	0	100	100
30	A8	59/65 (91%)	54 (92%)	4 (7%)	1 (2%)	9	35
30	B8	59/65 (91%)	42 (71%)	10 (17%)	7 (12%)	0	2
32	CE	235/256 (92%)	190 (81%)	44 (19%)	1 (0%)	34	66
32	DE	235/256 (92%)	186 (79%)	45 (19%)	4 (2%)	9	35
33	CF	203/239 (85%)	180 (89%)	23 (11%)	0	100	100
33	DF	204/239 (85%)	179 (88%)	23 (11%)	2 (1%)	15	46
34	CG	206/208 (99%)	180 (87%)	25 (12%)	1 (0%)	29	61
34	DG	206/208 (99%)	177 (86%)	28 (14%)	1 (0%)	29	61
35	CH	149/162 (92%)	137 (92%)	11 (7%)	1 (1%)	22	54
35	DH	149/162 (92%)	139 (93%)	10 (7%)	0	100	100
36	CI	99/101 (98%)	92 (93%)	7 (7%)	0	100	100
36	DI	99/101 (98%)	94 (95%)	5 (5%)	0	100	100
37	CJ	153/156 (98%)	144 (94%)	9 (6%)	0	100	100
37	DJ	153/156 (98%)	143 (94%)	10 (6%)	0	100	100
38	CK	136/138 (99%)	122 (90%)	13 (10%)	1 (1%)	22	54
38	DK	136/138 (99%)	123 (90%)	13 (10%)	0	100	100
39	CL	125/128 (98%)	111 (89%)	14 (11%)	0	100	100
39	DL	125/128 (98%)	114 (91%)	11 (9%)	0	100	100
40	CM	97/105 (92%)	87 (90%)	10 (10%)	0	100	100
40	DM	97/105 (92%)	88 (91%)	7 (7%)	2 (2%)	7	31
41	CN	117/129 (91%)	106 (91%)	11 (9%)	0	100	100
41	DN	117/129 (91%)	105 (90%)	12 (10%)	0	100	100
42	CO	123/132 (93%)	108 (88%)	13 (11%)	2 (2%)	9	36
42	DO	123/132 (93%)	105 (85%)	16 (13%)	2 (2%)	9	36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	CP	114/126 (90%)	90 (79%)	24 (21%)	0	100	100
43	DP	115/126 (91%)	97 (84%)	17 (15%)	1 (1%)	17	48
44	CQ	58/61 (95%)	50 (86%)	6 (10%)	2 (3%)	3	22
44	DQ	58/61 (95%)	49 (84%)	8 (14%)	1 (2%)	9	35
45	CR	86/89 (97%)	79 (92%)	7 (8%)	0	100	100
45	DR	86/89 (97%)	78 (91%)	8 (9%)	0	100	100
46	CS	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
46	DS	82/88 (93%)	76 (93%)	6 (7%)	0	100	100
47	CT	98/105 (93%)	89 (91%)	7 (7%)	2 (2%)	7	32
47	DT	98/105 (93%)	93 (95%)	5 (5%)	0	100	100
48	CU	70/88 (80%)	63 (90%)	6 (9%)	1 (1%)	11	38
48	DU	70/88 (80%)	63 (90%)	7 (10%)	0	100	100
49	CV	76/93 (82%)	68 (90%)	6 (8%)	2 (3%)	5	27
49	DV	76/93 (82%)	58 (76%)	13 (17%)	5 (7%)	1	8
50	CW	97/106 (92%)	82 (84%)	14 (14%)	1 (1%)	15	46
50	DW	97/106 (92%)	81 (84%)	15 (16%)	1 (1%)	15	46
51	CX	23/27 (85%)	22 (96%)	1 (4%)	0	100	100
51	DX	23/27 (85%)	21 (91%)	2 (9%)	0	100	100
All	All	11336/12052 (94%)	9645 (85%)	1396 (12%)	295 (3%)	5	27

5 of 295 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	AD	237	GLU
3	AD	271	ILE
4	AE	15	PHE
4	AE	19	ARG
4	AE	23	VAL

5.3.2 Protein sidechains [i](#)

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
3	AD	214/218 (98%)	176 (82%)	38 (18%)	2	8
3	BD	214/218 (98%)	163 (76%)	51 (24%)	0	2
4	AE	165/166 (99%)	119 (72%)	46 (28%)	0	1
4	BE	165/166 (99%)	127 (77%)	38 (23%)	1	3
5	AF	161/166 (97%)	125 (78%)	36 (22%)	1	3
5	BF	165/166 (99%)	124 (75%)	41 (25%)	0	2
6	AG	155/156 (99%)	121 (78%)	34 (22%)	1	3
6	BG	155/156 (99%)	116 (75%)	39 (25%)	0	2
7	AH	142/148 (96%)	110 (78%)	32 (22%)	1	3
7	BH	142/148 (96%)	118 (83%)	24 (17%)	2	9
8	AK	122/124 (98%)	99 (81%)	23 (19%)	1	6
8	BK	122/124 (98%)	89 (73%)	33 (27%)	0	1
9	AM	117/119 (98%)	88 (75%)	29 (25%)	0	2
9	BM	117/119 (98%)	95 (81%)	22 (19%)	1	6
10	AN	100/100 (100%)	86 (86%)	14 (14%)	3	16
10	BN	100/100 (100%)	80 (80%)	20 (20%)	1	5
11	AO	116/116 (100%)	81 (70%)	35 (30%)	0	1
11	BO	116/116 (100%)	76 (66%)	40 (34%)	0	1
12	AP	111/111 (100%)	86 (78%)	25 (22%)	1	3
12	BP	111/111 (100%)	86 (78%)	25 (22%)	1	3
13	A0	101/101 (100%)	80 (79%)	21 (21%)	1	4
13	B0	100/101 (99%)	81 (81%)	19 (19%)	1	6
14	AQ	87/88 (99%)	69 (79%)	18 (21%)	1	4
14	BQ	87/88 (99%)	66 (76%)	21 (24%)	0	2
15	AR	120/127 (94%)	91 (76%)	29 (24%)	0	2
15	BR	120/127 (94%)	84 (70%)	36 (30%)	0	1
16	A1	93/94 (99%)	77 (83%)	16 (17%)	2	9
16	B1	93/94 (99%)	80 (86%)	13 (14%)	3	16
17	A2	82/82 (100%)	59 (72%)	23 (28%)	0	1
17	B2	82/82 (100%)	54 (66%)	28 (34%)	0	1
18	AS	92/92 (100%)	72 (78%)	20 (22%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	BS	92/92 (100%)	66 (72%)	26 (28%)	0	1
19	AT	74/78 (95%)	58 (78%)	16 (22%)	1	4
19	BT	74/78 (95%)	60 (81%)	14 (19%)	1	6
20	AU	85/91 (93%)	68 (80%)	17 (20%)	1	5
20	BU	85/91 (93%)	61 (72%)	24 (28%)	0	1
21	AV	154/179 (86%)	123 (80%)	31 (20%)	1	5
21	BV	158/179 (88%)	130 (82%)	28 (18%)	2	8
22	A3	61/67 (91%)	52 (85%)	9 (15%)	3	13
22	B3	62/67 (92%)	50 (81%)	12 (19%)	1	5
23	AZ	82/83 (99%)	70 (85%)	12 (15%)	3	14
23	BZ	82/83 (99%)	66 (80%)	16 (20%)	1	5
24	AW	62/67 (92%)	46 (74%)	16 (26%)	0	2
24	BW	64/67 (96%)	51 (80%)	13 (20%)	1	5
25	AX	51/52 (98%)	47 (92%)	4 (8%)	12	38
25	BX	51/52 (98%)	38 (74%)	13 (26%)	0	2
26	A4	59/63 (94%)	42 (71%)	17 (29%)	0	1
26	B4	57/63 (90%)	41 (72%)	16 (28%)	0	1
27	A5	51/52 (98%)	37 (72%)	14 (28%)	0	1
27	B5	51/52 (98%)	38 (74%)	13 (26%)	0	2
28	A6	44/52 (85%)	28 (64%)	16 (36%)	0	0
28	B6	44/52 (85%)	29 (66%)	15 (34%)	0	1
29	A7	42/42 (100%)	35 (83%)	7 (17%)	2	10
29	B7	42/42 (100%)	30 (71%)	12 (29%)	0	1
30	A8	51/55 (93%)	41 (80%)	10 (20%)	1	5
30	B8	51/55 (93%)	37 (72%)	14 (28%)	0	1
32	CE	205/220 (93%)	164 (80%)	41 (20%)	1	5
32	DE	205/220 (93%)	168 (82%)	37 (18%)	1	7
33	CF	159/188 (85%)	132 (83%)	27 (17%)	2	9
33	DF	160/188 (85%)	129 (81%)	31 (19%)	1	5
34	CG	180/180 (100%)	150 (83%)	30 (17%)	2	10
34	DG	180/180 (100%)	141 (78%)	39 (22%)	1	4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	CH	116/123 (94%)	94 (81%)	22 (19%)	1	6
35	DH	116/123 (94%)	97 (84%)	19 (16%)	2	10
36	CI	90/90 (100%)	78 (87%)	12 (13%)	4	17
36	DI	90/90 (100%)	78 (87%)	12 (13%)	4	17
37	CJ	126/127 (99%)	105 (83%)	21 (17%)	2	10
37	DJ	126/127 (99%)	100 (79%)	26 (21%)	1	4
38	CK	119/119 (100%)	106 (89%)	13 (11%)	6	24
38	DK	119/119 (100%)	102 (86%)	17 (14%)	3	15
39	CL	98/99 (99%)	69 (70%)	29 (30%)	0	1
39	DL	98/99 (99%)	72 (74%)	26 (26%)	0	1
40	CM	89/92 (97%)	69 (78%)	20 (22%)	1	3
40	DM	89/92 (97%)	65 (73%)	24 (27%)	0	1
41	CN	90/99 (91%)	77 (86%)	13 (14%)	3	15
41	DN	90/99 (91%)	79 (88%)	11 (12%)	5	20
42	CO	104/109 (95%)	88 (85%)	16 (15%)	2	12
42	DO	104/109 (95%)	85 (82%)	19 (18%)	1	7
43	CP	94/101 (93%)	76 (81%)	18 (19%)	1	6
43	DP	94/101 (93%)	77 (82%)	17 (18%)	1	7
44	CQ	49/50 (98%)	34 (69%)	15 (31%)	0	1
44	DQ	49/50 (98%)	37 (76%)	12 (24%)	0	2
45	CR	79/80 (99%)	69 (87%)	10 (13%)	4	19
45	DR	79/80 (99%)	68 (86%)	11 (14%)	3	16
46	CS	72/74 (97%)	58 (81%)	14 (19%)	1	5
46	DS	72/74 (97%)	58 (81%)	14 (19%)	1	5
47	CT	95/97 (98%)	83 (87%)	12 (13%)	4	19
47	DT	95/97 (98%)	88 (93%)	7 (7%)	13	40
48	CU	63/77 (82%)	51 (81%)	12 (19%)	1	6
48	DU	63/77 (82%)	50 (79%)	13 (21%)	1	4
49	CV	67/80 (84%)	50 (75%)	17 (25%)	0	2
49	DV	67/80 (84%)	53 (79%)	14 (21%)	1	4
50	CW	76/82 (93%)	64 (84%)	12 (16%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	DW	76/82 (93%)	62 (82%)	14 (18%)	1	7
51	CX	20/22 (91%)	15 (75%)	5 (25%)	0	2
51	DX	20/22 (91%)	18 (90%)	2 (10%)	7	27
All	All	9579/9996 (96%)	7581 (79%)	1998 (21%)	1	4

5 of 1998 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
11	BO	101	VAL
20	BU	96	ILE
40	DM	30	SER
12	BP	83	MET
15	BR	134	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 265 such sidechains are listed below:

Mol	Chain	Res	Type
16	B1	49	HIS
23	BZ	66	HIS
40	DM	13	HIS
17	B2	64	HIS
19	BT	82	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	2911/2912 (99%)	700 (24%)	52 (1%)
1	BA	2908/2912 (99%)	711 (24%)	53 (1%)
2	AB	121/122 (99%)	29 (23%)	0
2	BB	121/122 (99%)	29 (23%)	0
31	CA	1506/1506 (100%)	346 (22%)	35 (2%)
31	DA	1505/1506 (99%)	353 (23%)	49 (3%)
52	CB	86/87 (98%)	37 (43%)	4 (4%)
52	DB	86/87 (98%)	33 (38%)	3 (3%)
53	CC	77/77 (100%)	17 (22%)	4 (5%)
53	CD	76/77 (98%)	27 (35%)	1 (1%)
53	DC	77/77 (100%)	17 (22%)	4 (5%)
53	DD	76/77 (98%)	26 (34%)	1 (1%)
54	C1	9/10 (90%)	2 (22%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
54	D1	9/10 (90%)	2 (22%)	0
All	All	9568/9582 (99%)	2329 (24%)	206 (2%)

5 of 2329 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	2	G
1	AA	5	A
1	AA	10	G
1	AA	34	C
1	AA	35	G

5 of 206 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	BA	2282	G
31	CA	428	G
31	DA	1305	G
1	BA	2422	A
1	BA	2893	G

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 1703 ligands modelled in this entry, 1701 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
56	PAR	CA	1841	-	45,45,45	0.58	0	64,67,67	1.42	10 (15%)
56	PAR	DA	1805	-	45,45,45	0.58	0	64,67,67	1.69	17 (26%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
56	PAR	CA	1841	-	-	8/18/94/94	0/4/4/4
56	PAR	DA	1805	-	-	6/18/94/94	0/4/4/4

There are no bond length outliers.

The worst 5 of 27 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
56	DA	1805	PAR	C13-O52-C52	-4.32	107.28	117.96
56	DA	1805	PAR	O54-C54-C64	4.10	113.64	106.01
56	DA	1805	PAR	C11-O51-C51	3.98	121.51	113.69
56	CA	1841	PAR	O54-C54-C64	3.91	113.28	106.01
56	CA	1841	PAR	C41-C31-C21	-3.70	104.72	111.07

There are no chirality outliers.

5 of 14 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
56	CA	1841	PAR	C23-C13-O52-C52
56	CA	1841	PAR	C44-C54-C64-N64
56	CA	1841	PAR	O54-C54-C64-N64
56	DA	1805	PAR	C23-C13-O52-C52
56	CA	1841	PAR	O43-C43-C53-O53

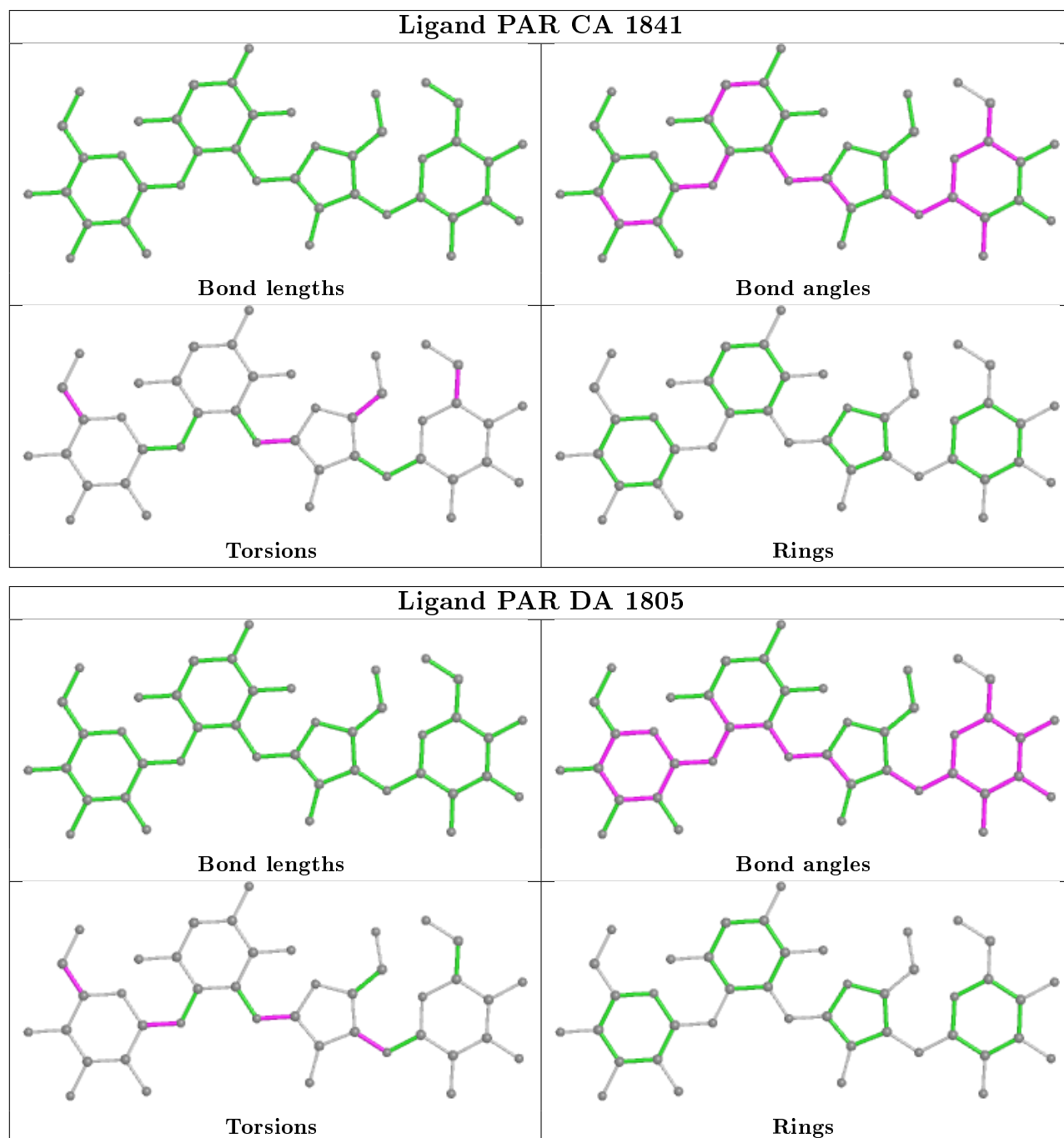
There are no ring outliers.

2 monomers are involved in 9 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
56	CA	1841	PAR	4	0
56	DA	1805	PAR	5	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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	2912/2912 (100%)	-0.06	43 (1%) 73 72	50, 81, 215, 247	0
1	BA	2909/2912 (99%)	-0.16	40 (1%) 75 75	60, 95, 235, 249	0
2	AB	122/122 (100%)	-0.28	1 (0%) 86 86	81, 105, 124, 182	0
2	BB	122/122 (100%)	-0.36	2 (1%) 72 70	98, 133, 156, 203	0
3	AD	272/276 (98%)	0.73	12 (4%) 34 33	47, 72, 94, 112	0
3	BD	272/276 (98%)	0.53	14 (5%) 28 26	56, 82, 103, 138	0
4	AE	205/206 (99%)	0.87	38 (18%) 1 1	55, 91, 137, 149	0
4	BE	205/206 (99%)	1.01	36 (17%) 1 1	66, 104, 153, 172	0
5	AF	202/210 (96%)	0.05	2 (0%) 82 82	52, 84, 123, 137	0
5	BF	208/210 (99%)	0.78	24 (11%) 4 4	64, 108, 166, 191	0
6	AG	181/182 (99%)	1.15	32 (17%) 1 1	95, 115, 143, 157	0
6	BG	181/182 (99%)	1.18	39 (21%) 0 1	125, 148, 169, 176	0
7	AH	170/180 (94%)	0.25	5 (2%) 51 50	89, 119, 138, 160	0
7	BH	170/180 (94%)	3.45	120 (70%) 0 0	161, 203, 224, 232	0
8	AK	146/148 (98%)	0.68	18 (12%) 4 3	85, 134, 151, 157	0
8	BK	146/148 (98%)	0.35	6 (4%) 37 35	91, 134, 158, 167	0
9	AM	138/140 (98%)	0.30	6 (4%) 35 34	70, 95, 131, 144	0
9	BM	138/140 (98%)	1.87	63 (45%) 0 0	86, 118, 148, 158	0
10	AN	122/122 (100%)	0.61	3 (2%) 57 54	63, 82, 98, 111	0
10	BN	122/122 (100%)	0.89	11 (9%) 9 9	76, 98, 117, 133	0
11	AO	150/150 (100%)	0.25	3 (2%) 65 64	45, 90, 122, 167	0
11	BO	150/150 (100%)	0.58	12 (8%) 12 11	44, 101, 149, 186	0
12	AP	141/141 (100%)	0.71	11 (7%) 13 12	58, 91, 116, 142	0
12	BP	141/141 (100%)	1.57	40 (28%) 0 0	58, 107, 142, 164	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	A0	118/118 (100%)	0.07	0 100 100	64, 90, 109, 123	0
13	B0	117/118 (99%)	0.12	1 (0%) 84 84	68, 90, 113, 128	0
14	AQ	111/112 (99%)	0.76	12 (10%) 5 5	83, 103, 126, 142	0
14	BQ	111/112 (99%)	0.38	7 (6%) 20 20	95, 132, 156, 175	0
15	AR	137/146 (93%)	0.64	9 (6%) 18 18	75, 97, 147, 178	0
15	BR	137/146 (93%)	0.37	4 (2%) 51 50	86, 107, 167, 187	0
16	A1	117/118 (99%)	-0.15	3 (2%) 56 53	61, 84, 116, 145	0
16	B1	117/118 (99%)	1.43	33 (28%) 0 0	71, 106, 146, 165	0
17	A2	101/101 (100%)	0.17	3 (2%) 50 49	61, 105, 126, 145	0
17	B2	101/101 (100%)	2.01	43 (42%) 0 0	73, 131, 148, 158	0
18	AS	113/113 (100%)	-0.09	2 (1%) 68 67	55, 80, 111, 163	0
18	BS	113/113 (100%)	0.55	5 (4%) 34 33	69, 84, 121, 162	0
19	AT	92/96 (95%)	0.58	6 (6%) 18 18	63, 78, 102, 118	0
19	BT	92/96 (95%)	0.73	8 (8%) 10 10	78, 96, 119, 134	0
20	AU	102/110 (92%)	0.20	4 (3%) 39 37	82, 107, 157, 172	0
20	BU	102/110 (92%)	1.49	29 (28%) 0 0	97, 123, 176, 191	0
21	AV	175/206 (84%)	1.52	63 (36%) 0 0	93, 133, 193, 198	0
21	BV	179/206 (86%)	2.94	108 (60%) 0 0	128, 166, 212, 218	0
22	A3	76/85 (89%)	0.22	1 (1%) 77 77	65, 84, 98, 137	0
22	B3	77/85 (90%)	0.35	2 (2%) 56 53	79, 101, 122, 155	0
23	AZ	97/98 (98%)	0.78	10 (10%) 6 6	61, 81, 137, 165	0
23	BZ	97/98 (98%)	0.31	2 (2%) 63 62	69, 91, 141, 162	0
24	AW	66/72 (91%)	0.09	2 (3%) 50 49	69, 87, 106, 137	0
24	BW	69/72 (95%)	0.66	5 (7%) 15 15	90, 114, 148, 183	0
25	AX	59/60 (98%)	-0.04	1 (1%) 70 68	73, 90, 120, 135	0
25	BX	59/60 (98%)	1.36	12 (20%) 1 1	86, 114, 146, 166	0
26	A4	66/71 (92%)	3.36	46 (69%) 0 0	127, 161, 179, 187	0
26	B4	63/71 (88%)	3.59	46 (73%) 0 0	154, 190, 200, 207	0
27	A5	59/60 (98%)	0.48	7 (11%) 4 4	55, 95, 180, 185	0
27	B5	59/60 (98%)	1.09	12 (20%) 1 1	65, 94, 181, 192	0
28	A6	45/54 (83%)	3.26	30 (66%) 0 0	122, 152, 173, 181	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	B6	45/54 (83%)	1.84	17 (37%) 0 0	141, 173, 188, 192	0
29	A7	49/49 (100%)	0.04	2 (4%) 37 35	50, 60, 106, 137	0
29	B7	49/49 (100%)	0.42	4 (8%) 11 11	60, 69, 129, 148	0
30	A8	61/65 (93%)	0.37	1 (1%) 72 70	64, 78, 95, 120	0
30	B8	61/65 (93%)	0.91	4 (6%) 18 18	78, 95, 110, 142	0
31	CA	1506/1506 (100%)	-0.36	6 (0%) 92 93	64, 112, 193, 248	0
31	DA	1506/1506 (100%)	-0.39	5 (0%) 94 94	76, 122, 195, 248	0
32	CE	237/256 (92%)	0.52	21 (8%) 9 10	115, 149, 188, 198	0
32	DE	237/256 (92%)	0.24	17 (7%) 15 15	127, 165, 200, 215	0
33	CF	205/239 (85%)	0.63	18 (8%) 10 10	98, 124, 158, 166	0
33	DF	206/239 (86%)	1.11	51 (24%) 0 0	128, 151, 180, 188	0
34	CG	208/208 (100%)	-0.10	0 100 100	95, 119, 143, 154	0
34	DG	208/208 (100%)	0.71	18 (8%) 10 10	91, 116, 137, 151	0
35	CH	151/162 (93%)	0.39	5 (3%) 46 44	87, 109, 132, 166	0
35	DH	151/162 (93%)	-0.04	0 100 100	104, 125, 148, 169	0
36	CI	101/101 (100%)	0.86	11 (10%) 5 5	89, 112, 130, 153	0
36	DI	101/101 (100%)	0.65	10 (9%) 7 7	87, 109, 130, 156	0
37	CJ	155/156 (99%)	0.65	16 (10%) 6 6	111, 128, 158, 167	0
37	DJ	155/156 (99%)	-0.15	1 (0%) 89 90	116, 136, 164, 170	0
38	CK	138/138 (100%)	0.11	3 (2%) 62 60	95, 116, 130, 137	0
38	DK	138/138 (100%)	-0.25	0 100 100	109, 129, 143, 151	0
39	CL	127/128 (99%)	-0.27	0 100 100	99, 147, 167, 173	0
39	DL	127/128 (99%)	-0.50	1 (0%) 86 86	120, 158, 174, 178	0
40	CM	99/105 (94%)	-0.12	2 (2%) 65 64	93, 146, 176, 179	0
40	DM	99/105 (94%)	0.36	9 (9%) 9 9	127, 164, 180, 185	0
41	CN	119/129 (92%)	1.78	41 (34%) 0 0	79, 110, 142, 169	0
41	DN	119/129 (92%)	0.56	8 (6%) 17 17	90, 116, 148, 172	0
42	CO	125/132 (94%)	1.05	23 (18%) 1 1	76, 87, 119, 164	0
42	DO	125/132 (94%)	1.26	30 (24%) 0 0	88, 112, 137, 175	0
43	CP	116/126 (92%)	0.59	11 (9%) 8 8	98, 132, 151, 160	0
43	DP	117/126 (92%)	0.80	13 (11%) 5 5	117, 160, 174, 178	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	CQ	60/61 (98%)	0.03	1 (1%) 70 68	95, 115, 129, 139	0
44	DQ	60/61 (98%)	0.35	4 (6%) 17 17	129, 146, 159, 166	0
45	CR	88/89 (98%)	0.19	3 (3%) 45 43	86, 108, 129, 133	0
45	DR	88/89 (98%)	0.18	2 (2%) 60 59	85, 118, 142, 148	0
46	CS	84/88 (95%)	0.16	1 (1%) 79 78	104, 121, 148, 179	0
46	DS	84/88 (95%)	0.12	0 100 100	94, 111, 134, 166	0
47	CT	100/105 (95%)	0.15	5 (5%) 28 27	94, 115, 132, 146	0
47	DT	100/105 (95%)	0.20	2 (2%) 65 64	95, 117, 141, 155	0
48	CU	72/88 (81%)	0.93	11 (15%) 2 2	91, 112, 146, 173	0
48	DU	72/88 (81%)	0.61	7 (9%) 7 8	97, 120, 156, 173	0
49	CV	78/93 (83%)	0.61	5 (6%) 19 19	112, 136, 151, 158	0
49	DV	78/93 (83%)	0.79	7 (8%) 9 9	150, 167, 187, 191	0
50	CW	99/106 (93%)	-0.17	0 100 100	106, 130, 158, 169	0
50	DW	99/106 (93%)	-0.18	1 (1%) 82 82	97, 124, 158, 172	0
51	CX	25/27 (92%)	-0.24	0 100 100	101, 124, 142, 160	0
51	DX	25/27 (92%)	-0.10	0 100 100	126, 149, 163, 175	0
52	CB	87/87 (100%)	1.55	28 (32%) 0 0	91, 155, 201, 213	2 (2%)
52	DB	87/87 (100%)	1.45	27 (31%) 0 0	97, 156, 203, 216	2 (2%)
53	CC	77/77 (100%)	0.32	2 (2%) 56 53	82, 118, 149, 164	0
53	CD	77/77 (100%)	0.72	15 (19%) 1 1	86, 232, 246, 248	0
53	DC	77/77 (100%)	-0.31	0 100 100	87, 120, 153, 167	0
53	DD	77/77 (100%)	-0.48	1 (1%) 77 77	91, 234, 245, 249	0
54	C1	10/10 (100%)	1.27	2 (20%) 1 1	85, 102, 117, 131	0
54	D1	10/10 (100%)	-0.14	0 100 100	88, 109, 119, 137	0
All	All	21107/21634 (97%)	0.30	1569 (7%) 14 14	44, 110, 191, 249	4 (0%)

The worst 5 of 1569 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AA	654(J)	A	13.7
21	BV	179	ASP	13.6
1	AA	654(K)	C	11.7
41	CN	11	LYS	11.7
7	BH	29	PRO	11.4

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 carbohydrates in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3420	1/1	-0.36	0.18	136,136,136,136	0
55	MG	CA	1704	1/1	-0.20	0.42	113,113,113,113	0
55	MG	AA	3224	1/1	-0.03	0.45	93,93,93,93	0
55	MG	CA	1728	1/1	0.02	0.37	117,117,117,117	0
55	MG	CA	1694	1/1	0.13	0.60	104,104,104,104	0
55	MG	CA	1693	1/1	0.17	0.37	102,102,102,102	0
55	MG	BA	3024	1/1	0.18	1.02	110,110,110,110	0
55	MG	BA	3471	1/1	0.21	0.38	96,96,96,96	0
55	MG	DA	1703	1/1	0.22	0.37	115,115,115,115	0
55	MG	BA	3371	1/1	0.23	0.16	129,129,129,129	0
55	MG	AA	3385	1/1	0.23	0.54	88,88,88,88	0
55	MG	BA	3406	1/1	0.24	0.30	97,97,97,97	0
55	MG	CA	1720	1/1	0.25	0.27	102,102,102,102	0
55	MG	CA	1653	1/1	0.25	0.41	91,91,91,91	0
55	MG	CA	1714	1/1	0.25	0.47	118,118,118,118	0
55	MG	DA	1713	1/1	0.26	0.36	111,111,111,111	0
55	MG	BB	212	1/1	0.27	0.31	104,104,104,104	0
55	MG	CA	1621	1/1	0.27	0.38	107,107,107,107	0
55	MG	DA	1802	1/1	0.28	0.47	102,102,102,102	0
55	MG	CA	1774	1/1	0.28	0.43	97,97,97,97	0
55	MG	BA	3078	1/1	0.28	0.23	95,95,95,95	0
55	MG	BA	3329	1/1	0.29	0.17	66,66,66,66	0
55	MG	AA	3433	1/1	0.29	0.12	152,152,152,152	0
55	MG	BA	3116	1/1	0.30	0.22	107,107,107,107	0
55	MG	DA	1719	1/1	0.30	0.56	112,112,112,112	0
55	MG	DA	1641	1/1	0.31	0.31	95,95,95,95	0
55	MG	BB	208	1/1	0.31	0.42	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3279	1/1	0.32	0.32	89,89,89,89	0
55	MG	CB	102	1/1	0.32	0.33	106,106,106,106	0
55	MG	AA	3413	1/1	0.33	0.40	109,109,109,109	0
55	MG	BA	3383	1/1	0.33	0.49	95,95,95,95	0
55	MG	CA	1637	1/1	0.34	0.32	106,106,106,106	0
55	MG	AA	3382	1/1	0.34	0.50	102,102,102,102	0
55	MG	AA	3393	1/1	0.35	0.57	98,98,98,98	0
55	MG	BA	3027	1/1	0.36	0.24	107,107,107,107	0
55	MG	BA	3472	1/1	0.36	0.44	83,83,83,83	0
55	MG	AA	3482	1/1	0.36	0.32	96,96,96,96	0
55	MG	BA	3465	1/1	0.36	0.34	97,97,97,97	0
55	MG	AA	3193	1/1	0.37	0.69	96,96,96,96	0
55	MG	AA	3466	1/1	0.37	0.48	100,100,100,100	0
55	MG	AA	3407	1/1	0.38	0.48	110,110,110,110	0
55	MG	BA	3463	1/1	0.38	0.29	114,114,114,114	0
55	MG	DA	1793	1/1	0.39	0.38	108,108,108,108	0
55	MG	BA	3422	1/1	0.39	0.36	102,102,102,102	0
55	MG	BA	3344	1/1	0.39	0.35	101,101,101,101	0
55	MG	BA	3095	1/1	0.40	0.38	112,112,112,112	0
55	MG	AA	3564	1/1	0.40	0.34	76,76,76,76	0
55	MG	AA	3347	1/1	0.40	0.33	92,92,92,92	0
55	MG	DA	1784	1/1	0.40	0.34	103,103,103,103	0
55	MG	AA	3416	1/1	0.41	0.45	95,95,95,95	0
55	MG	BA	3395	1/1	0.41	0.21	89,89,89,89	0
55	MG	CA	1773	1/1	0.41	0.36	101,101,101,101	0
55	MG	CA	1783	1/1	0.41	0.86	106,106,106,106	0
55	MG	AB	204	1/1	0.42	0.56	96,96,96,96	0
55	MG	AA	3409	1/1	0.43	0.54	104,104,104,104	0
55	MG	AA	3320	1/1	0.43	0.32	103,103,103,103	0
55	MG	BA	3399	1/1	0.44	0.26	104,104,104,104	0
55	MG	AA	3370	1/1	0.44	0.22	106,106,106,106	0
55	MG	BA	3507	1/1	0.45	0.34	102,102,102,102	0
55	MG	CA	1679	1/1	0.45	0.35	101,101,101,101	0
55	MG	DA	1625	1/1	0.45	0.22	105,105,105,105	0
55	MG	DA	1663	1/1	0.45	0.26	103,103,103,103	0
55	MG	BA	3277	1/1	0.46	0.30	109,109,109,109	0
55	MG	CA	1718	1/1	0.46	0.39	93,93,93,93	0
55	MG	BA	3303	1/1	0.46	0.37	89,89,89,89	0
55	MG	BA	3301	1/1	0.46	0.32	106,106,106,106	0
55	MG	CA	1768	1/1	0.46	0.33	105,105,105,105	0
55	MG	AA	3132	1/1	0.46	0.57	106,106,106,106	0
55	MG	BA	3468	1/1	0.47	0.28	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3612	1/1	0.47	0.69	92,92,92,92	0
55	MG	BA	3051	1/1	0.47	0.33	90,90,90,90	0
55	MG	DA	1801	1/1	0.48	0.32	90,90,90,90	0
55	MG	AA	3537	1/1	0.48	0.30	105,105,105,105	0
55	MG	CA	1823	1/1	0.48	0.14	110,110,110,110	0
55	MG	AA	3456	1/1	0.48	0.41	91,91,91,91	0
55	MG	DA	1794	1/1	0.48	0.43	91,91,91,91	0
55	MG	BA	3367	1/1	0.49	0.39	91,91,91,91	0
55	MG	AA	3626	1/1	0.49	0.62	96,96,96,96	0
55	MG	DA	1795	1/1	0.49	0.32	101,101,101,101	0
55	MG	AA	3325	1/1	0.49	0.37	100,100,100,100	0
55	MG	AA	3522	1/1	0.50	0.55	97,97,97,97	0
55	MG	AA	3080	1/1	0.50	0.57	104,104,104,104	0
55	MG	BA	3407	1/1	0.50	0.14	96,96,96,96	0
55	MG	DA	1664	1/1	0.50	0.20	97,97,97,97	0
55	MG	CA	1672	1/1	0.50	0.26	106,106,106,106	0
55	MG	BA	3336	1/1	0.50	0.34	97,97,97,97	0
55	MG	AA	3366	1/1	0.50	0.55	92,92,92,92	0
55	MG	CG	301	1/1	0.50	0.49	94,94,94,94	0
55	MG	CA	1758	1/1	0.50	0.40	97,97,97,97	0
55	MG	CA	1803	1/1	0.51	0.66	94,94,94,94	0
55	MG	BA	3521	1/1	0.51	0.33	79,79,79,79	0
55	MG	CC	107	1/1	0.51	0.43	93,93,93,93	0
55	MG	AA	3304	1/1	0.51	0.32	90,90,90,90	0
55	MG	DA	1774	1/1	0.51	0.33	103,103,103,103	0
55	MG	DA	1804	1/1	0.51	0.34	123,123,123,123	0
55	MG	AA	3524	1/1	0.51	0.41	94,94,94,94	0
55	MG	CA	1832	1/1	0.51	0.25	106,106,106,106	0
55	MG	CA	1745	1/1	0.51	0.37	95,95,95,95	0
55	MG	CA	1767	1/1	0.52	0.27	120,120,120,120	0
55	MG	BA	3104	1/1	0.52	0.35	115,115,115,115	0
55	MG	BA	3164	1/1	0.52	0.21	99,99,99,99	0
55	MG	AA	3498	1/1	0.52	0.50	95,95,95,95	0
55	MG	AA	3073	1/1	0.52	0.57	97,97,97,97	0
55	MG	CA	1776	1/1	0.52	0.49	79,79,79,79	0
55	MG	BA	3193	1/1	0.53	0.34	102,102,102,102	0
55	MG	CA	1613	1/1	0.53	0.17	94,94,94,94	0
55	MG	BA	3098	1/1	0.53	0.25	106,106,106,106	0
55	MG	AA	3501	1/1	0.54	0.44	99,99,99,99	0
55	MG	AA	3156	1/1	0.54	0.46	94,94,94,94	0
55	MG	AA	3430	1/1	0.54	0.28	105,105,105,105	0
55	MG	CA	1727	1/1	0.54	0.27	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1770	1/1	0.54	0.32	90,90,90,90	0
55	MG	AA	3148	1/1	0.54	0.59	83,83,83,83	0
55	MG	BA	3003	1/1	0.54	0.50	99,99,99,99	0
55	MG	AA	3441	1/1	0.54	0.59	101,101,101,101	0
55	MG	AA	3273	1/1	0.54	0.29	101,101,101,101	0
55	MG	CB	104	1/1	0.54	0.35	101,101,101,101	0
55	MG	AA	3446	1/1	0.55	0.40	93,93,93,93	0
55	MG	AA	3107	1/1	0.55	0.31	69,69,69,69	0
55	MG	DC	107	1/1	0.55	0.41	105,105,105,105	0
55	MG	BA	3416	1/1	0.55	0.31	103,103,103,103	0
55	MG	AA	3301	1/1	0.55	0.30	85,85,85,85	0
55	MG	DA	1787	1/1	0.55	0.37	114,114,114,114	0
55	MG	AA	3425	1/1	0.55	0.33	94,94,94,94	0
55	MG	DA	1624	1/1	0.55	0.25	95,95,95,95	0
55	MG	CA	1831	1/1	0.55	0.33	105,105,105,105	0
55	MG	CA	1757	1/1	0.55	0.43	92,92,92,92	0
55	MG	BA	3151	1/1	0.56	0.27	96,96,96,96	0
55	MG	BA	3413	1/1	0.56	0.53	94,94,94,94	0
55	MG	AA	3604	1/1	0.56	0.46	93,93,93,93	0
55	MG	BA	3423	1/1	0.56	0.42	91,91,91,91	0
55	MG	AA	3286	1/1	0.57	0.46	86,86,86,86	0
55	MG	AA	3319	1/1	0.57	0.33	94,94,94,94	0
55	MG	CA	1753	1/1	0.57	0.24	107,107,107,107	0
55	MG	BA	3527	1/1	0.57	0.31	97,97,97,97	0
55	MG	BB	214	1/1	0.57	0.34	99,99,99,99	0
55	MG	CA	1710	1/1	0.57	0.35	81,81,81,81	0
55	MG	CA	1716	1/1	0.57	0.30	117,117,117,117	0
55	MG	BB	207	1/1	0.57	0.34	116,116,116,116	0
55	MG	CA	1821	1/1	0.57	0.38	94,94,94,94	0
55	MG	AA	3397	1/1	0.57	0.46	95,95,95,95	0
55	MG	AB	214	1/1	0.57	0.39	102,102,102,102	0
55	MG	BA	3478	1/1	0.57	0.39	92,92,92,92	0
55	MG	AA	3354	1/1	0.57	0.38	84,84,84,84	0
55	MG	BA	3398	1/1	0.58	0.55	96,96,96,96	0
55	MG	BA	3174	1/1	0.58	0.32	82,82,82,82	0
55	MG	CA	1611	1/1	0.58	0.21	97,97,97,97	0
55	MG	AA	3308	1/1	0.58	0.23	96,96,96,96	0
55	MG	BA	3520	1/1	0.58	0.32	101,101,101,101	0
55	MG	BA	3375	1/1	0.58	0.30	75,75,75,75	0
55	MG	CA	1724	1/1	0.58	0.22	97,97,97,97	0
55	MG	BA	3500	1/1	0.58	0.20	104,104,104,104	0
55	MG	AA	3402	1/1	0.58	0.46	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	1758	1/1	0.59	0.46	109,109,109,109	0
55	MG	DA	1757	1/1	0.59	0.32	104,104,104,104	0
55	MG	BA	3332	1/1	0.59	0.23	100,100,100,100	0
55	MG	AA	3391	1/1	0.59	0.43	106,106,106,106	0
55	MG	BA	3447	1/1	0.59	0.30	100,100,100,100	0
55	MG	BA	3290	1/1	0.59	0.21	82,82,82,82	0
55	MG	AA	3075	1/1	0.59	0.61	85,85,85,85	0
55	MG	BA	3334	1/1	0.59	0.14	103,103,103,103	0
55	MG	CA	1706	1/1	0.59	0.34	91,91,91,91	0
55	MG	BB	210	1/1	0.59	0.38	96,96,96,96	0
55	MG	DA	1768	1/1	0.59	0.13	82,82,82,82	0
55	MG	AA	3235	1/1	0.59	0.46	84,84,84,84	0
55	MG	CA	1635	1/1	0.59	0.28	100,100,100,100	0
55	MG	AA	3277	1/1	0.59	0.32	82,82,82,82	0
55	MG	CN	202	1/1	0.60	0.32	99,99,99,99	0
55	MG	CA	1828	1/1	0.60	0.23	98,98,98,98	0
55	MG	AB	212	1/1	0.60	0.45	94,94,94,94	0
55	MG	BA	3459	1/1	0.60	0.22	115,115,115,115	0
55	MG	BA	3312	1/1	0.60	0.33	98,98,98,98	0
55	MG	BA	3424	1/1	0.60	0.64	86,86,86,86	0
55	MG	DA	1710	1/1	0.60	0.49	100,100,100,100	0
55	MG	BA	3475	1/1	0.60	0.32	90,90,90,90	0
55	MG	AA	3278	1/1	0.60	0.71	100,100,100,100	0
55	MG	AA	3265	1/1	0.60	0.23	95,95,95,95	0
55	MG	BA	3393	1/1	0.60	0.10	84,84,84,84	0
55	MG	DA	1785	1/1	0.61	0.30	93,93,93,93	0
55	MG	CA	1827	1/1	0.61	0.29	89,89,89,89	0
55	MG	CA	1809	1/1	0.61	0.39	79,79,79,79	0
55	MG	BA	3379	1/1	0.61	0.32	84,84,84,84	0
55	MG	DA	1629	1/1	0.61	0.20	92,92,92,92	0
55	MG	CA	1760	1/1	0.61	0.20	91,91,91,91	0
55	MG	BA	3041	1/1	0.61	0.48	104,104,104,104	0
55	MG	AA	3394	1/1	0.62	0.36	99,99,99,99	0
55	MG	BA	3449	1/1	0.62	0.29	109,109,109,109	0
55	MG	AA	3437	1/1	0.62	0.47	122,122,122,122	0
55	MG	BR	202	1/1	0.62	0.83	105,105,105,105	0
55	MG	BA	3067	1/1	0.62	0.42	74,74,74,74	0
55	MG	CA	1788	1/1	0.62	0.15	105,105,105,105	0
55	MG	BA	3090	1/1	0.62	0.33	109,109,109,109	0
55	MG	CA	1725	1/1	0.62	0.31	98,98,98,98	0
55	MG	C1	101	1/1	0.62	0.50	98,98,98,98	0
55	MG	BA	3397	1/1	0.62	0.32	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	CA	1800	1/1	0.62	0.17	104,104,104,104	0
55	MG	AA	3359	1/1	0.62	0.41	84,84,84,84	0
55	MG	BA	3363	1/1	0.62	0.23	88,88,88,88	0
55	MG	BA	3318	1/1	0.62	0.32	89,89,89,89	0
55	MG	BA	3037	1/1	0.63	0.26	75,75,75,75	0
55	MG	BA	3004	1/1	0.63	0.27	105,105,105,105	0
55	MG	DA	1763	1/1	0.63	0.28	89,89,89,89	0
55	MG	BA	3033	1/1	0.63	0.25	94,94,94,94	0
55	MG	CA	1819	1/1	0.63	0.21	109,109,109,109	0
55	MG	AA	3253	1/1	0.63	0.30	81,81,81,81	0
55	MG	AA	3367	1/1	0.63	0.52	87,87,87,87	0
55	MG	BA	3294	1/1	0.63	0.28	98,98,98,98	0
55	MG	DA	1777	1/1	0.63	0.40	87,87,87,87	0
55	MG	BA	3461	1/1	0.63	0.19	83,83,83,83	0
55	MG	BA	3175	1/1	0.63	0.22	100,100,100,100	0
55	MG	AA	3335	1/1	0.63	0.65	91,91,91,91	0
55	MG	BA	3081	1/1	0.63	0.21	91,91,91,91	0
55	MG	CA	1804	1/1	0.63	0.39	107,107,107,107	0
55	MG	AA	3435	1/1	0.63	0.45	78,78,78,78	0
55	MG	BA	3299	1/1	0.64	0.21	82,82,82,82	0
55	MG	CA	1775	1/1	0.64	0.27	113,113,113,113	0
55	MG	AA	3420	1/1	0.64	0.31	88,88,88,88	0
55	MG	BA	3454	1/1	0.64	0.42	105,105,105,105	0
55	MG	CA	1628	1/1	0.64	0.40	85,85,85,85	0
55	MG	AA	3556	1/1	0.64	0.49	96,96,96,96	0
55	MG	CA	1797	1/1	0.64	0.19	93,93,93,93	0
55	MG	AA	3372	1/1	0.64	0.28	87,87,87,87	0
55	MG	BA	3008	1/1	0.64	0.31	89,89,89,89	0
55	MG	CA	1711	1/1	0.64	0.30	98,98,98,98	0
55	MG	BA	3404	1/1	0.64	0.21	101,101,101,101	0
55	MG	AA	3118	1/1	0.64	0.41	87,87,87,87	0
55	MG	AA	3357	1/1	0.64	0.57	99,99,99,99	0
55	MG	DA	1754	1/1	0.64	0.25	98,98,98,98	0
55	MG	AE	303	1/1	0.64	0.37	91,91,91,91	0
55	MG	DA	1759	1/1	0.65	0.42	108,108,108,108	0
55	MG	DA	1749	1/1	0.65	0.25	101,101,101,101	0
55	MG	DA	1740	1/1	0.65	0.17	113,113,113,113	0
55	MG	AA	3469	1/1	0.65	0.49	103,103,103,103	0
55	MG	DA	1714	1/1	0.65	0.29	105,105,105,105	0
55	MG	AA	3492	1/1	0.65	0.32	94,94,94,94	0
55	MG	AA	3620	1/1	0.65	0.34	115,115,115,115	0
55	MG	AA	3169	1/1	0.65	0.35	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3226	1/1	0.65	0.45	82,82,82,82	0
55	MG	CA	1759	1/1	0.65	0.36	117,117,117,117	0
55	MG	AA	3362	1/1	0.65	0.36	89,89,89,89	0
55	MG	BA	3170	1/1	0.65	0.24	96,96,96,96	0
55	MG	BA	3101	1/1	0.65	0.25	94,94,94,94	0
55	MG	DA	1764	1/1	0.65	0.41	85,85,85,85	0
55	MG	CA	1615	1/1	0.65	0.32	104,104,104,104	0
55	MG	CA	1701	1/1	0.65	0.15	105,105,105,105	0
55	MG	DA	1682	1/1	0.65	0.47	96,96,96,96	0
55	MG	BA	3282	1/1	0.66	0.30	93,93,93,93	0
55	MG	AA	3443	1/1	0.66	0.34	90,90,90,90	0
55	MG	AA	3486	1/1	0.66	0.34	90,90,90,90	0
55	MG	BA	3392	1/1	0.66	0.21	85,85,85,85	0
55	MG	BA	3401	1/1	0.66	0.21	100,100,100,100	0
55	MG	BA	3429	1/1	0.66	0.16	95,95,95,95	0
55	MG	A6	101	1/1	0.66	0.50	111,111,111,111	0
55	MG	DA	1800	1/1	0.66	0.33	99,99,99,99	0
55	MG	AA	3445	1/1	0.66	0.30	95,95,95,95	0
55	MG	CA	1689	1/1	0.66	0.22	115,115,115,115	0
55	MG	CA	1640	1/1	0.66	0.35	85,85,85,85	0
55	MG	AA	3261	1/1	0.66	0.52	85,85,85,85	0
55	MG	AA	3097	1/1	0.66	0.59	106,106,106,106	0
55	MG	AA	3509	1/1	0.66	0.31	95,95,95,95	0
55	MG	BA	3384	1/1	0.66	0.35	92,92,92,92	0
55	MG	BA	3513	1/1	0.67	0.23	104,104,104,104	0
55	MG	DA	1611	1/1	0.67	0.38	100,100,100,100	0
55	MG	BA	3457	1/1	0.67	0.24	99,99,99,99	0
55	MG	BA	3469	1/1	0.67	0.35	92,92,92,92	0
55	MG	BA	3073	1/1	0.67	0.41	99,99,99,99	0
55	MG	DA	1760	1/1	0.67	0.45	100,100,100,100	0
55	MG	BA	3467	1/1	0.67	0.40	93,93,93,93	0
55	MG	BA	3056	1/1	0.67	0.25	96,96,96,96	0
55	MG	AA	3384	1/1	0.67	0.56	87,87,87,87	0
55	MG	DA	1688	1/1	0.67	0.27	99,99,99,99	0
55	MG	AA	3395	1/1	0.67	0.51	80,80,80,80	0
55	MG	AA	3236	1/1	0.67	0.57	96,96,96,96	0
55	MG	AE	304	1/1	0.67	0.13	87,87,87,87	0
55	MG	BA	3474	1/1	0.67	0.41	88,88,88,88	0
55	MG	AA	3560	1/1	0.67	0.35	87,87,87,87	0
55	MG	AA	3259	1/1	0.67	0.29	81,81,81,81	0
55	MG	BA	3339	1/1	0.67	0.20	90,90,90,90	0
55	MG	BA	3235	1/1	0.68	0.44	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3270	1/1	0.68	0.30	69,69,69,69	0
55	MG	AA	3480	1/1	0.68	0.55	86,86,86,86	0
55	MG	DA	1747	1/1	0.68	0.30	105,105,105,105	0
55	MG	AA	3340	1/1	0.68	0.38	83,83,83,83	0
55	MG	BA	3121	1/1	0.68	0.45	99,99,99,99	0
55	MG	CA	1629	1/1	0.68	0.15	95,95,95,95	0
55	MG	DA	1711	1/1	0.68	0.41	89,89,89,89	0
55	MG	CA	1681	1/1	0.68	0.35	80,80,80,80	0
55	MG	AA	3361	1/1	0.68	0.54	93,93,93,93	0
55	MG	BA	3331	1/1	0.68	0.20	101,101,101,101	0
55	MG	DA	1618	1/1	0.68	0.31	104,104,104,104	0
55	MG	BA	3063	1/1	0.68	0.30	89,89,89,89	0
55	MG	BA	3050	1/1	0.68	0.24	103,103,103,103	0
55	MG	CA	1662	1/1	0.68	0.42	81,81,81,81	0
55	MG	BA	3394	1/1	0.68	0.43	88,88,88,88	0
55	MG	AA	3182	1/1	0.68	0.47	88,88,88,88	0
55	MG	BA	3453	1/1	0.68	0.24	93,93,93,93	0
55	MG	AA	3185	1/1	0.68	0.60	88,88,88,88	0
55	MG	DA	1613	1/1	0.68	0.42	88,88,88,88	0
55	MG	AA	3060	1/1	0.68	0.43	84,84,84,84	0
55	MG	CA	1719	1/1	0.68	0.35	85,85,85,85	0
55	MG	BB	215	1/1	0.69	0.17	101,101,101,101	0
55	MG	AA	3249	1/1	0.69	0.41	76,76,76,76	0
55	MG	BA	3444	1/1	0.69	0.50	96,96,96,96	0
55	MG	AA	3525	1/1	0.69	0.17	73,73,73,73	0
55	MG	BA	3287	1/1	0.69	0.35	87,87,87,87	0
55	MG	AA	3341	1/1	0.69	0.26	95,95,95,95	0
55	MG	BA	3441	1/1	0.69	0.34	93,93,93,93	0
55	MG	BA	3293	1/1	0.69	0.22	96,96,96,96	0
55	MG	CA	1722	1/1	0.69	0.41	74,74,74,74	0
55	MG	AB	208	1/1	0.69	0.34	92,92,92,92	0
55	MG	AA	3120	1/1	0.69	0.32	86,86,86,86	0
55	MG	CA	1813	1/1	0.69	0.58	94,94,94,94	0
55	MG	BA	3345	1/1	0.69	0.19	87,87,87,87	0
55	MG	BA	3105	1/1	0.69	0.24	81,81,81,81	0
55	MG	CA	1647	1/1	0.69	0.21	92,92,92,92	0
55	MG	AA	3392	1/1	0.69	0.50	93,93,93,93	0
55	MG	AA	3374	1/1	0.69	0.41	74,74,74,74	0
55	MG	BA	3068	1/1	0.69	0.27	93,93,93,93	0
55	MG	AF	302	1/1	0.69	0.33	93,93,93,93	0
55	MG	BA	3464	1/1	0.70	0.33	104,104,104,104	0
55	MG	AA	3275	1/1	0.70	0.40	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3369	1/1	0.70	0.53	93,93,93,93	0
55	MG	AA	3461	1/1	0.70	0.39	105,105,105,105	0
55	MG	AA	3077	1/1	0.70	0.49	103,103,103,103	0
55	MG	CA	1806	1/1	0.70	0.17	62,62,62,62	0
55	MG	AB	202	1/1	0.70	0.23	92,92,92,92	0
55	MG	CA	1752	1/1	0.70	0.15	96,96,96,96	0
55	MG	AA	3475	1/1	0.70	0.27	102,102,102,102	0
55	MG	AA	3053	1/1	0.70	0.58	67,67,67,67	0
55	MG	AA	3497	1/1	0.70	0.61	95,95,95,95	0
55	MG	AA	3307	1/1	0.70	0.45	76,76,76,76	0
55	MG	DA	1718	1/1	0.70	0.21	132,132,132,132	0
55	MG	BA	3380	1/1	0.70	0.23	78,78,78,78	0
55	MG	DA	1702	1/1	0.70	0.36	99,99,99,99	0
55	MG	DA	1615	1/1	0.70	0.32	96,96,96,96	0
55	MG	BA	3313	1/1	0.71	0.20	106,106,106,106	0
55	MG	DA	1607	1/1	0.71	0.32	92,92,92,92	0
55	MG	CB	101	1/1	0.71	0.32	108,108,108,108	0
55	MG	BA	3387	1/1	0.71	0.48	107,107,107,107	0
55	MG	BA	3378	1/1	0.71	0.20	78,78,78,78	0
55	MG	AA	3419	1/1	0.71	0.57	89,89,89,89	0
55	MG	AA	3426	1/1	0.71	0.44	80,80,80,80	0
55	MG	CA	1735	1/1	0.71	0.46	101,101,101,101	0
55	MG	AA	3490	1/1	0.71	0.58	97,97,97,97	0
55	MG	CA	1816	1/1	0.71	0.20	95,95,95,95	0
55	MG	AA	3527	1/1	0.71	0.43	86,86,86,86	0
55	MG	DA	1770	1/1	0.71	0.35	95,95,95,95	0
55	MG	CA	1787	1/1	0.71	0.29	100,100,100,100	0
55	MG	CA	1715	1/1	0.71	0.26	115,115,115,115	0
55	MG	BA	3191	1/1	0.71	0.43	77,77,77,77	0
55	MG	BA	3370	1/1	0.71	0.22	98,98,98,98	0
55	MG	AA	3363	1/1	0.71	0.43	95,95,95,95	0
55	MG	DA	1746	1/1	0.71	0.25	104,104,104,104	0
55	MG	A3	101	1/1	0.71	0.42	74,74,74,74	0
55	MG	DA	1791	1/1	0.71	0.45	80,80,80,80	0
55	MG	CA	1778	1/1	0.71	0.43	95,95,95,95	0
55	MG	DA	1717	1/1	0.71	0.19	103,103,103,103	0
55	MG	AA	3390	1/1	0.71	0.40	109,109,109,109	0
55	MG	BA	3045	1/1	0.71	0.26	88,88,88,88	0
55	MG	AA	3583	1/1	0.72	0.56	103,103,103,103	0
55	MG	AA	3479	1/1	0.72	0.21	94,94,94,94	0
55	MG	DA	1683	1/1	0.72	0.56	80,80,80,80	0
55	MG	AA	3513	1/1	0.72	0.36	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3464	1/1	0.72	0.32	83,83,83,83	0
55	MG	BA	3448	1/1	0.72	0.22	85,85,85,85	0
55	MG	CG	302	1/1	0.72	0.17	122,122,122,122	0
55	MG	BA	3064	1/1	0.72	0.24	103,103,103,103	0
55	MG	CQ	102	1/1	0.72	0.25	97,97,97,97	0
55	MG	DA	1708	1/1	0.72	0.59	102,102,102,102	0
55	MG	DA	1789	1/1	0.72	0.22	77,77,77,77	0
55	MG	BA	3297	1/1	0.72	0.12	63,63,63,63	0
55	MG	AA	3067	1/1	0.72	0.52	108,108,108,108	0
55	MG	AA	3373	1/1	0.72	0.44	106,106,106,106	0
55	MG	AA	3309	1/1	0.72	0.70	90,90,90,90	0
55	MG	DA	1642	1/1	0.72	0.25	110,110,110,110	0
55	MG	BA	3114	1/1	0.72	0.29	103,103,103,103	0
55	MG	BA	3421	1/1	0.72	0.14	102,102,102,102	0
55	MG	CA	1815	1/1	0.72	0.27	91,91,91,91	0
55	MG	BA	3077	1/1	0.72	0.24	101,101,101,101	0
55	MG	BA	3039	1/1	0.72	0.32	85,85,85,85	0
55	MG	CC	101	1/1	0.72	0.30	108,108,108,108	0
55	MG	DA	1745	1/1	0.72	0.24	106,106,106,106	0
55	MG	AA	3316	1/1	0.72	0.18	83,83,83,83	0
55	MG	AA	3108	1/1	0.72	0.49	66,66,66,66	0
55	MG	DA	1778	1/1	0.72	0.25	118,118,118,118	0
55	MG	AA	3601	1/1	0.72	0.23	86,86,86,86	0
55	MG	AA	3410	1/1	0.73	0.40	95,95,95,95	0
55	MG	AA	3532	1/1	0.73	0.31	88,88,88,88	0
55	MG	AA	3332	1/1	0.73	0.15	62,62,62,62	0
55	MG	DA	1798	1/1	0.73	0.22	92,92,92,92	0
55	MG	BA	3382	1/1	0.73	0.24	89,89,89,89	0
55	MG	DA	1623	1/1	0.73	0.38	96,96,96,96	0
55	MG	DA	1748	1/1	0.73	0.50	91,91,91,91	0
55	MG	DC	104	1/1	0.73	0.21	102,102,102,102	0
55	MG	DA	1722	1/1	0.73	0.28	106,106,106,106	0
55	MG	BA	3057	1/1	0.73	0.20	97,97,97,97	0
55	MG	AA	3096	1/1	0.73	0.32	89,89,89,89	0
55	MG	BA	3065	1/1	0.73	0.44	101,101,101,101	0
55	MG	BA	3477	1/1	0.73	0.25	94,94,94,94	0
55	MG	AA	3104	1/1	0.73	0.34	80,80,80,80	0
55	MG	BA	3432	1/1	0.73	0.35	88,88,88,88	0
55	MG	BA	3410	1/1	0.73	0.43	94,94,94,94	0
55	MG	AA	3280	1/1	0.73	0.34	94,94,94,94	0
55	MG	DA	1606	1/1	0.73	0.29	95,95,95,95	0
55	MG	DA	1712	1/1	0.73	0.43	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3264	1/1	0.73	0.54	80,80,80,80	0
55	MG	CA	1661	1/1	0.73	0.17	52,52,52,52	0
55	MG	CA	1765	1/1	0.73	0.25	109,109,109,109	0
55	MG	AA	3381	1/1	0.73	0.71	90,90,90,90	0
55	MG	CA	1709	1/1	0.74	0.46	96,96,96,96	0
55	MG	BA	3296	1/1	0.74	0.25	76,76,76,76	0
55	MG	BA	3350	1/1	0.74	0.51	77,77,77,77	0
55	MG	BA	3089	1/1	0.74	0.27	83,83,83,83	0
55	MG	CA	1764	1/1	0.74	0.20	92,92,92,92	0
55	MG	CA	1685	1/1	0.74	0.27	103,103,103,103	0
55	MG	BA	3091	1/1	0.74	0.37	86,86,86,86	0
55	MG	AA	3442	1/1	0.74	0.37	78,78,78,78	0
55	MG	AA	3302	1/1	0.74	0.41	104,104,104,104	0
55	MG	AA	3172	1/1	0.74	0.30	94,94,94,94	0
55	MG	CA	1766	1/1	0.74	0.53	108,108,108,108	0
55	MG	BA	3278	1/1	0.74	0.32	92,92,92,92	0
55	MG	BA	3112	1/1	0.74	0.12	69,69,69,69	0
55	MG	BA	3070	1/1	0.74	0.28	81,81,81,81	0
55	MG	BA	3355	1/1	0.74	0.43	87,87,87,87	0
55	MG	BA	3435	1/1	0.74	0.16	108,108,108,108	0
55	MG	BA	3099	1/1	0.74	0.20	98,98,98,98	0
55	MG	AA	3093	1/1	0.74	0.52	65,65,65,65	0
55	MG	BB	206	1/1	0.75	0.12	102,102,102,102	0
55	MG	CA	1612	1/1	0.75	0.23	102,102,102,102	0
55	MG	BA	3204	1/1	0.75	0.30	74,74,74,74	0
55	MG	AA	3256	1/1	0.75	0.39	66,66,66,66	0
55	MG	DA	1661	1/1	0.75	0.50	98,98,98,98	0
55	MG	CA	1790	1/1	0.75	0.26	89,89,89,89	0
55	MG	DA	1636	1/1	0.75	0.24	103,103,103,103	0
55	MG	BA	3402	1/1	0.75	0.32	95,95,95,95	0
55	MG	BA	3519	1/1	0.75	0.24	107,107,107,107	0
55	MG	BA	3368	1/1	0.75	0.30	106,106,106,106	0
55	MG	BA	3526	1/1	0.75	0.26	92,92,92,92	0
55	MG	AA	3439	1/1	0.75	0.40	97,97,97,97	0
55	MG	CA	1652	1/1	0.75	0.30	93,93,93,93	0
55	MG	BA	3034	1/1	0.75	0.28	81,81,81,81	0
55	MG	BA	3442	1/1	0.75	0.37	91,91,91,91	0
55	MG	AA	3376	1/1	0.75	0.62	85,85,85,85	0
55	MG	DA	1720	1/1	0.75	0.32	96,96,96,96	0
55	MG	AA	3421	1/1	0.75	0.56	94,94,94,94	0
55	MG	BA	3044	1/1	0.75	0.48	104,104,104,104	0
55	MG	BA	3374	1/1	0.75	0.52	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3595	1/1	0.75	0.36	79,79,79,79	0
55	MG	AA	3593	1/1	0.75	0.50	95,95,95,95	0
55	MG	AA	3396	1/1	0.75	0.55	104,104,104,104	0
55	MG	AA	3121	1/1	0.75	0.71	90,90,90,90	0
55	MG	AA	3291	1/1	0.76	0.45	68,68,68,68	0
55	MG	AA	3171	1/1	0.76	0.33	84,84,84,84	0
55	MG	AA	3375	1/1	0.76	0.43	88,88,88,88	0
55	MG	BA	3327	1/1	0.76	0.28	91,91,91,91	0
55	MG	BA	3311	1/1	0.76	0.22	82,82,82,82	0
55	MG	DA	1602	1/1	0.76	0.33	85,85,85,85	0
55	MG	AA	3499	1/1	0.76	0.67	93,93,93,93	0
55	MG	AA	3258	1/1	0.76	0.42	92,92,92,92	0
55	MG	BA	3262	1/1	0.76	0.21	94,94,94,94	0
55	MG	CA	1677	1/1	0.76	0.25	90,90,90,90	0
55	MG	DA	1655	1/1	0.76	0.33	96,96,96,96	0
55	MG	BA	3426	1/1	0.76	0.39	87,87,87,87	0
55	MG	BA	3391	1/1	0.76	0.29	95,95,95,95	0
55	MG	BA	3305	1/1	0.76	0.33	76,76,76,76	0
55	MG	CA	1683	1/1	0.76	0.32	104,104,104,104	0
55	MG	AA	3231	1/1	0.76	0.53	106,106,106,106	0
55	MG	BA	3117	1/1	0.76	0.39	91,91,91,91	0
55	MG	BA	3163	1/1	0.76	0.21	84,84,84,84	0
55	MG	CA	1616	1/1	0.76	0.24	103,103,103,103	0
55	MG	BA	3046	1/1	0.76	0.34	83,83,83,83	0
55	MG	BA	3304	1/1	0.76	0.33	91,91,91,91	0
55	MG	BA	3266	1/1	0.76	0.48	91,91,91,91	0
55	MG	CA	1633	1/1	0.76	0.30	83,83,83,83	0
55	MG	AA	3242	1/1	0.76	0.23	93,93,93,93	0
55	MG	DS	101	1/1	0.76	0.48	87,87,87,87	0
55	MG	DG	302	1/1	0.76	0.08	112,112,112,112	0
55	MG	AA	3418	1/1	0.76	0.30	91,91,91,91	0
55	MG	AA	3334	1/1	0.76	0.70	76,76,76,76	0
55	MG	AA	3078	1/1	0.77	0.64	88,88,88,88	0
55	MG	AA	3126	1/1	0.77	0.24	83,83,83,83	0
55	MG	DA	1769	1/1	0.77	0.34	79,79,79,79	0
55	MG	BA	3390	1/1	0.77	0.46	77,77,77,77	0
55	MG	CA	1623	1/1	0.77	0.30	73,73,73,73	0
55	MG	DA	1660	1/1	0.77	0.24	102,102,102,102	0
55	MG	BA	3035	1/1	0.77	0.25	103,103,103,103	0
55	MG	AA	3463	1/1	0.77	0.42	90,90,90,90	0
55	MG	AA	3039	1/1	0.77	0.67	82,82,82,82	0
55	MG	DA	1725	1/1	0.77	0.39	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3415	1/1	0.77	0.30	109,109,109,109	0
55	MG	DA	1698	1/1	0.77	0.48	103,103,103,103	0
55	MG	BA	3111	1/1	0.77	0.20	82,82,82,82	0
55	MG	BA	3165	1/1	0.77	0.34	42,42,42,42	0
55	MG	BA	3466	1/1	0.77	0.14	73,73,73,73	0
55	MG	CA	1834	1/1	0.77	0.33	90,90,90,90	0
55	MG	BA	3337	1/1	0.77	0.34	100,100,100,100	0
55	MG	AA	3353	1/1	0.77	0.52	86,86,86,86	0
55	MG	AA	3423	1/1	0.77	0.20	74,74,74,74	0
55	MG	AA	3616	1/1	0.77	0.30	95,95,95,95	0
55	MG	AA	3260	1/1	0.77	0.55	91,91,91,91	0
55	MG	AA	3094	1/1	0.77	0.35	62,62,62,62	0
55	MG	DA	1627	1/1	0.77	0.13	105,105,105,105	0
55	MG	AA	3365	1/1	0.77	0.38	74,74,74,74	0
55	MG	BB	213	1/1	0.77	0.45	97,97,97,97	0
55	MG	BA	3289	1/1	0.77	0.43	70,70,70,70	0
55	MG	AA	3493	1/1	0.77	0.33	92,92,92,92	0
55	MG	AA	3294	1/1	0.77	0.76	93,93,93,93	0
55	MG	CA	1729	1/1	0.77	0.35	94,94,94,94	0
55	MG	AA	3358	1/1	0.77	0.68	89,89,89,89	0
55	MG	CA	1799	1/1	0.77	0.38	95,95,95,95	0
55	MG	BA	3357	1/1	0.77	0.39	71,71,71,71	0
55	MG	AA	3173	1/1	0.78	0.34	67,67,67,67	0
55	MG	BA	3088	1/1	0.78	0.20	94,94,94,94	0
55	MG	BA	3043	1/1	0.78	0.22	108,108,108,108	0
55	MG	BA	3040	1/1	0.78	0.20	94,94,94,94	0
55	MG	BA	3427	1/1	0.78	0.33	100,100,100,100	0
55	MG	BA	3107	1/1	0.78	0.23	89,89,89,89	0
55	MG	BA	3108	1/1	0.78	0.40	99,99,99,99	0
55	MG	AA	3377	1/1	0.78	0.55	94,94,94,94	0
55	MG	CA	1798	1/1	0.78	0.40	82,82,82,82	0
55	MG	BA	3436	1/1	0.78	0.28	94,94,94,94	0
55	MG	CA	1808	1/1	0.78	0.26	67,67,67,67	0
55	MG	CA	1782	1/1	0.78	0.55	94,94,94,94	0
55	MG	BA	3119	1/1	0.78	0.20	79,79,79,79	0
55	MG	CA	1617	1/1	0.78	0.51	72,72,72,72	0
55	MG	CD	101	1/1	0.78	0.19	105,105,105,105	0
55	MG	CA	1817	1/1	0.78	0.27	85,85,85,85	0
55	MG	AA	3364	1/1	0.78	0.34	69,69,69,69	0
55	MG	BA	3389	1/1	0.78	0.17	96,96,96,96	0
55	MG	BA	3356	1/1	0.78	0.19	84,84,84,84	0
55	MG	AA	3557	1/1	0.78	0.49	100,100,100,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3076	1/1	0.78	0.37	91,91,91,91	0
55	MG	AA	3217	1/1	0.78	0.17	64,64,64,64	0
55	MG	AA	3268	1/1	0.78	0.49	85,85,85,85	0
55	MG	CA	1805	1/1	0.78	0.37	75,75,75,75	0
55	MG	CB	105	1/1	0.78	0.12	113,113,113,113	0
55	MG	BA	3256	1/1	0.78	0.35	102,102,102,102	0
55	MG	BB	209	1/1	0.78	0.31	95,95,95,95	0
55	MG	AA	3356	1/1	0.78	0.54	86,86,86,86	0
55	MG	CA	1748	1/1	0.78	0.38	87,87,87,87	0
55	MG	BA	3270	1/1	0.78	0.28	81,81,81,81	0
55	MG	CA	1738	1/1	0.78	0.31	103,103,103,103	0
55	MG	DA	1686	1/1	0.78	0.34	97,97,97,97	0
55	MG	AB	209	1/1	0.79	0.50	108,108,108,108	0
55	MG	AA	3536	1/1	0.79	0.47	92,92,92,92	0
55	MG	AA	3452	1/1	0.79	0.43	76,76,76,76	0
55	MG	BA	3125	1/1	0.79	1.04	104,104,104,104	0
55	MG	CA	1743	1/1	0.79	0.16	112,112,112,112	0
55	MG	AA	3295	1/1	0.79	0.66	102,102,102,102	0
55	MG	CA	1639	1/1	0.79	0.42	86,86,86,86	0
55	MG	DA	1639	1/1	0.79	0.33	78,78,78,78	0
55	MG	AA	3438	1/1	0.79	0.45	90,90,90,90	0
55	MG	AA	3064	1/1	0.79	0.12	79,79,79,79	0
55	MG	BA	3476	1/1	0.79	0.18	68,68,68,68	0
55	MG	BA	3361	1/1	0.79	0.15	88,88,88,88	0
55	MG	AA	3310	1/1	0.79	0.26	65,65,65,65	0
55	MG	BA	3185	1/1	0.79	0.41	68,68,68,68	0
55	MG	BA	3019	1/1	0.79	0.24	100,100,100,100	0
55	MG	DA	1803	1/1	0.79	0.49	100,100,100,100	0
55	MG	CA	1737	1/1	0.79	0.26	92,92,92,92	0
55	MG	DA	1788	1/1	0.79	0.39	90,90,90,90	0
55	MG	CA	1723	1/1	0.79	0.39	106,106,106,106	0
55	MG	CA	1833	1/1	0.79	0.14	95,95,95,95	0
55	MG	DA	1678	1/1	0.79	0.46	86,86,86,86	0
55	MG	BA	3353	1/1	0.79	0.22	84,84,84,84	0
55	MG	AA	3502	1/1	0.79	0.65	96,96,96,96	0
55	MG	AA	3467	1/1	0.79	0.38	87,87,87,87	0
55	MG	AF	301	1/1	0.79	0.20	80,80,80,80	0
55	MG	AA	3225	1/1	0.79	0.44	95,95,95,95	0
55	MG	AA	3371	1/1	0.79	0.43	89,89,89,89	0
55	MG	DA	1684	1/1	0.79	0.25	92,92,92,92	0
55	MG	BA	3092	1/1	0.79	0.24	95,95,95,95	0
55	MG	CA	1726	1/1	0.79	0.26	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3094	1/1	0.79	0.23	79,79,79,79	0
55	MG	BR	201	1/1	0.79	0.24	77,77,77,77	0
55	MG	A5	102	1/1	0.79	0.42	83,83,83,83	0
55	MG	DA	1631	1/1	0.79	0.20	102,102,102,102	0
55	MG	DA	1766	1/1	0.79	0.53	116,116,116,116	0
55	MG	DA	1765	1/1	0.79	0.20	93,93,93,93	0
55	MG	BA	3093	1/1	0.79	0.17	78,78,78,78	0
55	MG	AA	3518	1/1	0.79	0.36	90,90,90,90	0
55	MG	BA	3074	1/1	0.80	0.20	83,83,83,83	0
55	MG	BA	3445	1/1	0.80	0.23	95,95,95,95	0
55	MG	DA	1767	1/1	0.80	0.40	113,113,113,113	0
55	MG	AA	3594	1/1	0.80	0.56	105,105,105,105	0
55	MG	AA	3099	1/1	0.80	0.46	64,64,64,64	0
55	MG	AA	3523	1/1	0.80	0.21	91,91,91,91	0
55	MG	DA	1635	1/1	0.80	0.29	79,79,79,79	0
55	MG	AA	3473	1/1	0.80	0.46	77,77,77,77	0
55	MG	DA	1626	1/1	0.80	0.34	104,104,104,104	0
55	MG	BA	3258	1/1	0.80	0.34	64,64,64,64	0
55	MG	CA	1736	1/1	0.80	0.26	88,88,88,88	0
55	MG	AA	3494	1/1	0.80	0.37	88,88,88,88	0
55	MG	BA	3124	1/1	0.80	0.39	102,102,102,102	0
55	MG	CA	1690	1/1	0.80	0.40	102,102,102,102	0
55	MG	AZ	101	1/1	0.80	0.30	77,77,77,77	0
55	MG	DH	201	1/1	0.80	0.18	105,105,105,105	0
55	MG	BA	3298	1/1	0.80	0.15	61,61,61,61	0
55	MG	CA	1687	1/1	0.80	0.29	78,78,78,78	0
55	MG	BA	3498	1/1	0.80	0.15	99,99,99,99	0
55	MG	DA	1608	1/1	0.80	0.24	92,92,92,92	0
55	MG	CA	1734	1/1	0.80	0.51	86,86,86,86	0
55	MG	CA	1644	1/1	0.80	0.21	84,84,84,84	0
55	MG	AA	3350	1/1	0.80	0.24	90,90,90,90	0
55	MG	DA	1633	1/1	0.80	0.32	88,88,88,88	0
55	MG	AA	3542	1/1	0.80	0.37	93,93,93,93	0
55	MG	BA	3348	1/1	0.80	0.32	98,98,98,98	0
55	MG	AA	3163	1/1	0.80	0.31	55,55,55,55	0
55	MG	AA	3055	1/1	0.80	0.35	67,67,67,67	0
55	MG	BA	3047	1/1	0.80	0.18	80,80,80,80	0
55	MG	AA	3227	1/1	0.80	0.62	90,90,90,90	0
55	MG	AA	3276	1/1	0.81	0.53	78,78,78,78	0
55	MG	AA	3201	1/1	0.81	0.34	85,85,85,85	0
55	MG	BA	3153	1/1	0.81	0.39	77,77,77,77	0
55	MG	AA	3489	1/1	0.81	0.66	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3503	1/1	0.81	0.47	81,81,81,81	0
55	MG	CA	1630	1/1	0.81	0.28	112,112,112,112	0
55	MG	AA	3237	1/1	0.81	0.45	83,83,83,83	0
55	MG	BA	3326	1/1	0.81	0.23	84,84,84,84	0
55	MG	BA	3433	1/1	0.81	0.24	88,88,88,88	0
55	MG	AA	3328	1/1	0.81	0.39	82,82,82,82	0
55	MG	AA	3500	1/1	0.81	0.39	103,103,103,103	0
55	MG	AA	3109	1/1	0.81	0.37	53,53,53,53	0
55	MG	DA	1743	1/1	0.81	0.24	94,94,94,94	0
55	MG	AA	3184	1/1	0.81	0.39	94,94,94,94	0
55	MG	AA	3250	1/1	0.81	0.33	99,99,99,99	0
55	MG	AA	3207	1/1	0.81	0.21	50,50,50,50	0
55	MG	AA	3515	1/1	0.81	0.37	77,77,77,77	0
55	MG	AB	211	1/1	0.81	0.53	100,100,100,100	0
55	MG	BA	3188	1/1	0.81	0.30	85,85,85,85	0
55	MG	BA	3109	1/1	0.81	0.16	75,75,75,75	0
55	MG	CA	1739	1/1	0.81	0.56	86,86,86,86	0
55	MG	BA	3195	1/1	0.81	0.40	94,94,94,94	0
55	MG	BA	3346	1/1	0.81	0.40	99,99,99,99	0
55	MG	BA	3058	1/1	0.81	0.35	89,89,89,89	0
55	MG	BA	3505	1/1	0.81	0.29	94,94,94,94	0
55	MG	AA	3429	1/1	0.81	0.44	90,90,90,90	0
55	MG	BA	3376	1/1	0.81	0.33	65,65,65,65	0
55	MG	AA	3215	1/1	0.81	0.32	79,79,79,79	0
55	MG	DA	1614	1/1	0.81	0.54	93,93,93,93	0
55	MG	CA	1656	1/1	0.81	0.52	88,88,88,88	0
55	MG	BA	3405	1/1	0.81	0.23	87,87,87,87	0
55	MG	BA	3341	1/1	0.81	0.43	82,82,82,82	0
55	MG	BA	3273	1/1	0.81	0.34	102,102,102,102	0
55	MG	AA	3206	1/1	0.81	0.16	51,51,51,51	0
55	MG	DC	108	1/1	0.81	0.17	102,102,102,102	0
55	MG	BA	3260	1/1	0.81	0.14	82,82,82,82	0
55	MG	AA	3042	1/1	0.81	0.18	77,77,77,77	0
55	MG	BA	3446	1/1	0.81	0.32	98,98,98,98	0
55	MG	AA	3468	1/1	0.82	0.29	95,95,95,95	0
55	MG	AA	3624	1/1	0.82	0.32	111,111,111,111	0
55	MG	A2	201	1/1	0.82	0.50	101,101,101,101	0
55	MG	AA	3451	1/1	0.82	0.38	76,76,76,76	0
55	MG	AA	3292	1/1	0.82	0.39	76,76,76,76	0
55	MG	BA	3362	1/1	0.82	0.14	71,71,71,71	0
55	MG	AA	3510	1/1	0.82	0.53	84,84,84,84	0
55	MG	BA	3209	1/1	0.82	0.31	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3113	1/1	0.82	0.12	84,84,84,84	0
55	MG	BA	3120	1/1	0.82	0.18	81,81,81,81	0
55	MG	AB	216	1/1	0.82	0.34	106,106,106,106	0
55	MG	CA	1668	1/1	0.82	0.53	79,79,79,79	0
55	MG	AA	3251	1/1	0.82	0.34	68,68,68,68	0
55	MG	AA	3511	1/1	0.82	0.70	98,98,98,98	0
55	MG	AA	3531	1/1	0.82	0.45	96,96,96,96	0
55	MG	BA	3055	1/1	0.82	0.30	99,99,99,99	0
55	MG	BA	3460	1/1	0.82	0.17	101,101,101,101	0
55	MG	CA	1771	1/1	0.82	0.22	102,102,102,102	0
55	MG	AA	3038	1/1	0.82	0.55	80,80,80,80	0
55	MG	AA	3440	1/1	0.82	0.42	87,87,87,87	0
55	MG	BA	3495	1/1	0.82	0.29	81,81,81,81	0
55	MG	AA	3241	1/1	0.82	0.67	80,80,80,80	0
55	MG	AA	3323	1/1	0.82	0.26	71,71,71,71	0
55	MG	AA	3554	1/1	0.82	0.46	74,74,74,74	0
55	MG	BE	302	1/1	0.82	0.15	76,76,76,76	0
55	MG	CA	1649	1/1	0.82	0.29	86,86,86,86	0
55	MG	BA	3499	1/1	0.82	0.15	78,78,78,78	0
55	MG	BA	3032	1/1	0.82	0.36	110,110,110,110	0
55	MG	AA	3589	1/1	0.82	0.38	60,60,60,60	0
55	MG	DA	1779	1/1	0.82	0.34	91,91,91,91	0
55	MG	BA	3026	1/1	0.82	0.30	72,72,72,72	0
55	MG	DA	1637	1/1	0.82	0.30	97,97,97,97	0
55	MG	AA	3428	1/1	0.82	0.23	120,120,120,120	0
55	MG	AA	3415	1/1	0.82	0.47	87,87,87,87	0
55	MG	BA	3021	1/1	0.82	0.35	105,105,105,105	0
55	MG	CA	1646	1/1	0.82	0.37	75,75,75,75	0
55	MG	DA	1771	1/1	0.82	0.29	114,114,114,114	0
55	MG	BA	3411	1/1	0.82	0.35	83,83,83,83	0
55	MG	BA	3122	1/1	0.82	0.33	95,95,95,95	0
55	MG	CA	1762	1/1	0.82	0.14	89,89,89,89	0
55	MG	AA	3346	1/1	0.82	0.42	88,88,88,88	0
55	MG	CA	1730	1/1	0.83	0.28	107,107,107,107	0
55	MG	AD	301	1/1	0.83	0.29	99,99,99,99	0
55	MG	CA	1659	1/1	0.83	0.30	71,71,71,71	0
55	MG	BA	3172	1/1	0.83	0.31	85,85,85,85	0
55	MG	CA	1822	1/1	0.83	0.14	105,105,105,105	0
55	MG	BA	3455	1/1	0.83	0.17	92,92,92,92	0
55	MG	CA	1794	1/1	0.83	0.13	106,106,106,106	0
55	MG	DA	1709	1/1	0.83	0.28	109,109,109,109	0
55	MG	AA	3048	1/1	0.83	0.31	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3502	1/1	0.83	0.19	91,91,91,91	0
55	MG	BA	3031	1/1	0.83	0.32	60,60,60,60	0
55	MG	AA	3289	1/1	0.83	0.55	84,84,84,84	0
55	MG	BA	3202	1/1	0.83	0.23	69,69,69,69	0
55	MG	AA	3444	1/1	0.83	0.33	58,58,58,58	0
55	MG	AA	3512	1/1	0.83	0.14	97,97,97,97	0
55	MG	AA	3559	1/1	0.83	0.33	83,83,83,83	0
55	MG	BA	3030	1/1	0.83	0.20	99,99,99,99	0
55	MG	DA	1730	1/1	0.83	0.42	102,102,102,102	0
55	MG	AA	3398	1/1	0.83	0.36	73,73,73,73	0
55	MG	DA	1772	1/1	0.83	0.32	68,68,68,68	0
55	MG	AA	3408	1/1	0.83	0.38	83,83,83,83	0
55	MG	AA	3411	1/1	0.83	0.50	85,85,85,85	0
55	MG	AA	3158	1/1	0.83	0.34	68,68,68,68	0
55	MG	BA	3118	1/1	0.83	0.26	110,110,110,110	0
55	MG	CA	1761	1/1	0.83	0.42	66,66,66,66	0
55	MG	DA	1776	1/1	0.83	0.27	70,70,70,70	0
55	MG	CA	1750	1/1	0.83	0.51	104,104,104,104	0
55	MG	BA	3320	1/1	0.83	0.28	77,77,77,77	0
55	MG	AA	3561	1/1	0.83	0.24	82,82,82,82	0
55	MG	AA	3615	1/1	0.83	0.33	102,102,102,102	0
55	MG	AA	3238	1/1	0.83	0.52	82,82,82,82	0
55	MG	BA	3524	1/1	0.83	0.46	105,105,105,105	0
55	MG	AA	3336	1/1	0.83	0.25	82,82,82,82	0
55	MG	CA	1810	1/1	0.83	0.35	108,108,108,108	0
55	MG	CC	102	1/1	0.83	0.29	69,69,69,69	0
55	MG	CA	1826	1/1	0.83	0.28	81,81,81,81	0
55	MG	AA	3198	1/1	0.83	0.65	74,74,74,74	0
55	MG	DA	1773	1/1	0.83	0.47	69,69,69,69	0
55	MG	AA	3507	1/1	0.83	0.48	99,99,99,99	0
55	MG	BA	3366	1/1	0.83	0.25	76,76,76,76	0
55	MG	AA	3331	1/1	0.83	0.46	76,76,76,76	0
55	MG	BA	3434	1/1	0.83	0.16	90,90,90,90	0
55	MG	DA	1601	1/1	0.83	0.16	107,107,107,107	0
55	MG	BA	3479	1/1	0.83	0.35	95,95,95,95	0
55	MG	CA	1755	1/1	0.84	0.26	81,81,81,81	0
55	MG	BA	3386	1/1	0.84	0.23	81,81,81,81	0
55	MG	CA	1814	1/1	0.84	0.28	86,86,86,86	0
55	MG	DA	1671	1/1	0.84	0.40	77,77,77,77	0
55	MG	DA	1603	1/1	0.84	0.44	89,89,89,89	0
55	MG	AA	3613	1/1	0.84	0.31	76,76,76,76	0
55	MG	AA	3625	1/1	0.84	0.28	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3079	1/1	0.84	0.18	82,82,82,82	0
55	MG	CA	1829	1/1	0.84	0.22	102,102,102,102	0
55	MG	AA	3313	1/1	0.84	0.45	70,70,70,70	0
55	MG	BA	3343	1/1	0.84	0.24	75,75,75,75	0
55	MG	BA	3247	1/1	0.84	0.33	74,74,74,74	0
55	MG	AO	203	1/1	0.84	0.34	43,43,43,43	0
55	MG	DA	1621	1/1	0.84	0.46	99,99,99,99	0
55	MG	CA	1698	1/1	0.84	0.26	89,89,89,89	0
55	MG	CT	201	1/1	0.84	0.32	102,102,102,102	0
55	MG	AA	3618	1/1	0.84	0.54	97,97,97,97	0
55	MG	AA	3448	1/1	0.84	0.38	106,106,106,106	0
55	MG	AA	3317	1/1	0.84	0.41	85,85,85,85	0
55	MG	CA	1812	1/1	0.84	0.20	84,84,84,84	0
55	MG	BA	3020	1/1	0.84	0.26	76,76,76,76	0
55	MG	CA	1703	1/1	0.84	0.16	103,103,103,103	0
55	MG	BA	3330	1/1	0.84	0.39	91,91,91,91	0
55	MG	AA	3131	1/1	0.84	0.20	90,90,90,90	0
55	MG	BA	3212	1/1	0.84	0.49	70,70,70,70	0
55	MG	BA	3438	1/1	0.84	0.23	88,88,88,88	0
55	MG	AA	3588	1/1	0.84	0.47	68,68,68,68	0
55	MG	AA	3465	1/1	0.84	0.32	71,71,71,71	0
55	MG	AA	3412	1/1	0.84	0.36	110,110,110,110	0
55	MG	DG	301	1/1	0.84	0.34	94,94,94,94	0
55	MG	CA	1655	1/1	0.84	0.52	95,95,95,95	0
55	MG	BA	3162	1/1	0.84	0.15	92,92,92,92	0
55	MG	AA	3272	1/1	0.84	0.37	65,65,65,65	0
55	MG	CA	1626	1/1	0.84	0.33	88,88,88,88	0
55	MG	CA	1731	1/1	0.84	0.35	98,98,98,98	0
55	MG	BA	3335	1/1	0.84	0.13	100,100,100,100	0
55	MG	AA	3605	1/1	0.84	0.58	72,72,72,72	0
55	MG	AA	3470	1/1	0.84	0.52	96,96,96,96	0
55	MG	BA	3506	1/1	0.85	0.20	74,74,74,74	0
55	MG	DA	1775	1/1	0.85	0.41	102,102,102,102	0
55	MG	AA	3223	1/1	0.85	0.30	71,71,71,71	0
55	MG	BA	3473	1/1	0.85	0.25	78,78,78,78	0
55	MG	DA	1677	1/1	0.85	0.24	82,82,82,82	0
55	MG	BA	3359	1/1	0.85	0.46	98,98,98,98	0
55	MG	AA	3329	1/1	0.85	0.16	94,94,94,94	0
55	MG	BA	3443	1/1	0.85	0.23	92,92,92,92	0
55	MG	BA	3106	1/1	0.85	0.06	85,85,85,85	0
55	MG	BA	3110	1/1	0.85	0.37	92,92,92,92	0
55	MG	CA	1747	1/1	0.85	0.43	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BB	201	1/1	0.85	0.24	90,90,90,90	0
55	MG	DA	1781	1/1	0.85	0.13	87,87,87,87	0
55	MG	BA	3084	1/1	0.85	0.15	99,99,99,99	0
55	MG	AA	3495	1/1	0.85	0.60	90,90,90,90	0
55	MG	AA	3189	1/1	0.85	0.38	90,90,90,90	0
55	MG	BA	3085	1/1	0.85	0.34	74,74,74,74	0
55	MG	CA	1784	1/1	0.85	0.46	101,101,101,101	0
55	MG	BA	3369	1/1	0.85	0.35	69,69,69,69	0
55	MG	BA	3075	1/1	0.85	0.17	99,99,99,99	0
55	MG	DA	1640	1/1	0.85	0.17	101,101,101,101	0
55	MG	AA	3496	1/1	0.85	0.49	87,87,87,87	0
55	MG	BA	3510	1/1	0.85	0.26	67,67,67,67	0
55	MG	BA	3333	1/1	0.85	0.27	73,73,73,73	0
55	MG	AA	3587	1/1	0.85	0.55	77,77,77,77	0
55	MG	CA	1688	1/1	0.85	0.23	77,77,77,77	0
55	MG	CA	1707	1/1	0.85	0.38	78,78,78,78	0
55	MG	BA	3338	1/1	0.85	0.38	71,71,71,71	0
55	MG	AA	3274	1/1	0.85	0.42	72,72,72,72	0
55	MG	AA	3263	1/1	0.85	0.28	51,51,51,51	0
55	MG	AA	3303	1/1	0.85	0.39	95,95,95,95	0
55	MG	AA	3386	1/1	0.85	0.17	74,74,74,74	0
55	MG	AA	3404	1/1	0.85	0.29	95,95,95,95	0
55	MG	CB	103	1/1	0.85	0.21	110,110,110,110	0
55	MG	AA	3296	1/1	0.85	0.53	72,72,72,72	0
55	MG	BA	3528	1/1	0.85	0.20	98,98,98,98	0
55	MG	AA	3622	1/1	0.85	0.53	65,65,65,65	0
55	MG	DA	1700	1/1	0.85	0.41	94,94,94,94	0
55	MG	DC	106	1/1	0.85	0.15	111,111,111,111	0
55	MG	AA	3599	1/1	0.85	0.32	87,87,87,87	0
55	MG	AA	3424	1/1	0.85	0.48	54,54,54,54	0
55	MG	DA	1762	1/1	0.85	0.21	109,109,109,109	0
55	MG	BA	3086	1/1	0.86	0.38	82,82,82,82	0
55	MG	AA	3562	1/1	0.86	0.30	82,82,82,82	0
55	MG	AA	3602	1/1	0.86	0.19	59,59,59,59	0
55	MG	BA	3308	1/1	0.86	0.22	108,108,108,108	0
55	MG	DA	1662	1/1	0.86	0.45	78,78,78,78	0
55	MG	BA	3322	1/1	0.86	0.22	79,79,79,79	0
55	MG	AA	3194	1/1	0.86	0.49	102,102,102,102	0
55	MG	DA	1628	1/1	0.86	0.42	97,97,97,97	0
55	MG	CA	1793	1/1	0.86	0.15	96,96,96,96	0
55	MG	DA	1695	1/1	0.86	0.43	88,88,88,88	0
55	MG	AA	3338	1/1	0.86	0.47	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3488	1/1	0.86	0.25	93,93,93,93	0
55	MG	B3	101	1/1	0.86	0.21	76,76,76,76	0
55	MG	CA	1791	1/1	0.86	0.17	97,97,97,97	0
55	MG	AA	3360	1/1	0.86	0.36	63,63,63,63	0
55	MG	BA	3269	1/1	0.86	0.30	58,58,58,58	0
55	MG	BA	3259	1/1	0.86	0.35	54,54,54,54	0
55	MG	BA	3396	1/1	0.86	0.35	91,91,91,91	0
55	MG	DA	1685	1/1	0.86	0.43	72,72,72,72	0
55	MG	DA	1693	1/1	0.86	0.40	93,93,93,93	0
55	MG	AA	3547	1/1	0.86	0.20	45,45,45,45	0
55	MG	BA	3354	1/1	0.86	0.30	90,90,90,90	0
55	MG	DA	1756	1/1	0.86	0.46	106,106,106,106	0
55	MG	BA	3360	1/1	0.86	0.32	83,83,83,83	0
55	MG	AA	3344	1/1	0.86	0.46	68,68,68,68	0
55	MG	DA	1739	1/1	0.86	0.15	113,113,113,113	0
55	MG	BA	3281	1/1	0.86	0.32	92,92,92,92	0
55	MG	AA	3183	1/1	0.86	0.32	93,93,93,93	0
55	MG	BA	3205	1/1	0.86	0.24	70,70,70,70	0
55	MG	BA	3347	1/1	0.86	0.23	85,85,85,85	0
55	MG	BA	3061	1/1	0.86	0.13	69,69,69,69	0
55	MG	BA	3439	1/1	0.86	0.23	103,103,103,103	0
55	MG	DA	1707	1/1	0.86	0.25	95,95,95,95	0
55	MG	AB	206	1/1	0.86	0.48	93,93,93,93	0
55	MG	DA	1753	1/1	0.86	0.51	87,87,87,87	0
55	MG	BA	3373	1/1	0.86	0.39	88,88,88,88	0
55	MG	AA	3348	1/1	0.86	0.25	94,94,94,94	0
55	MG	DA	1797	1/1	0.86	0.35	85,85,85,85	0
55	MG	CA	1717	1/1	0.86	0.22	69,69,69,69	0
55	MG	BA	3525	1/1	0.86	0.36	98,98,98,98	0
55	MG	BA	3302	1/1	0.86	0.36	75,75,75,75	0
55	MG	CA	1824	1/1	0.86	0.14	94,94,94,94	0
55	MG	AA	3252	1/1	0.86	0.49	94,94,94,94	0
55	MG	AA	3254	1/1	0.86	0.63	85,85,85,85	0
55	MG	BB	204	1/1	0.86	0.32	90,90,90,90	0
55	MG	AA	3305	1/1	0.86	0.36	80,80,80,80	0
55	MG	BA	3201	1/1	0.86	0.22	94,94,94,94	0
55	MG	AA	3079	1/1	0.87	0.23	92,92,92,92	0
55	MG	BA	3115	1/1	0.87	0.28	79,79,79,79	0
55	MG	AA	3378	1/1	0.87	0.53	84,84,84,84	0
55	MG	BA	3351	1/1	0.87	0.47	81,81,81,81	0
55	MG	BA	3450	1/1	0.87	0.31	99,99,99,99	0
55	MG	AA	3619	1/1	0.87	0.50	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3580	1/1	0.87	0.30	78,78,78,78	0
55	MG	BA	3072	1/1	0.87	0.27	104,104,104,104	0
55	MG	AA	3190	1/1	0.87	0.24	58,58,58,58	0
55	MG	CN	201	1/1	0.87	0.09	78,78,78,78	0
55	MG	AA	3056	1/1	0.87	0.65	98,98,98,98	0
55	MG	AA	3271	1/1	0.87	0.36	92,92,92,92	0
55	MG	AA	3245	1/1	0.87	0.41	75,75,75,75	0
55	MG	DA	1630	1/1	0.87	0.26	102,102,102,102	0
55	MG	AA	3290	1/1	0.87	0.42	72,72,72,72	0
55	MG	CA	1695	1/1	0.87	0.36	90,90,90,90	0
55	MG	BA	3487	1/1	0.87	0.19	66,66,66,66	0
55	MG	AA	3552	1/1	0.87	0.35	83,83,83,83	0
55	MG	A7	101	1/1	0.87	0.38	60,60,60,60	0
55	MG	BA	3381	1/1	0.87	0.36	80,80,80,80	0
55	MG	CA	1741	1/1	0.87	0.24	80,80,80,80	0
55	MG	CA	1756	1/1	0.87	0.13	113,113,113,113	0
55	MG	BA	3176	1/1	0.87	0.20	79,79,79,79	0
55	MG	BA	3364	1/1	0.87	0.22	76,76,76,76	0
55	MG	BA	3203	1/1	0.87	0.39	53,53,53,53	0
55	MG	BA	3025	1/1	0.87	0.13	80,80,80,80	0
55	MG	BA	3321	1/1	0.87	0.11	59,59,59,59	0
55	MG	AA	3449	1/1	0.87	0.26	63,63,63,63	0
55	MG	CA	1676	1/1	0.87	0.29	76,76,76,76	0
55	MG	BA	3342	1/1	0.87	0.17	80,80,80,80	0
55	MG	AA	3611	1/1	0.87	0.26	100,100,100,100	0
55	MG	BA	3414	1/1	0.87	0.18	92,92,92,92	0
55	MG	AA	3453	1/1	0.87	0.30	95,95,95,95	0
55	MG	AA	3063	1/1	0.87	0.30	85,85,85,85	0
55	MG	AA	3197	1/1	0.87	0.40	74,74,74,74	0
55	MG	BA	3358	1/1	0.87	0.51	85,85,85,85	0
55	MG	BA	3189	1/1	0.87	0.32	61,61,61,61	0
55	MG	BA	3310	1/1	0.87	0.24	74,74,74,74	0
55	MG	DC	101	1/1	0.87	0.12	95,95,95,95	0
55	MG	AB	213	1/1	0.87	0.54	73,73,73,73	0
55	MG	BA	3408	1/1	0.87	0.42	88,88,88,88	0
55	MG	CA	1712	1/1	0.87	0.28	92,92,92,92	0
55	MG	BA	3005	1/1	0.87	0.29	70,70,70,70	0
55	MG	AA	3221	1/1	0.87	0.41	47,47,47,47	0
55	MG	AA	3155	1/1	0.87	0.45	71,71,71,71	0
55	MG	CA	1733	1/1	0.87	0.18	107,107,107,107	0
55	MG	AA	3322	1/1	0.87	0.53	68,68,68,68	0
55	MG	BA	3252	1/1	0.87	0.31	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	DA	1669	1/1	0.87	0.46	68,68,68,68	0
55	MG	AA	3519	1/1	0.87	0.16	53,53,53,53	0
55	MG	BA	3522	1/1	0.87	0.43	84,84,84,84	0
55	MG	AA	3176	1/1	0.87	0.22	74,74,74,74	0
55	MG	AA	3483	1/1	0.88	0.16	87,87,87,87	0
55	MG	BB	203	1/1	0.88	0.29	76,76,76,76	0
55	MG	DA	1728	1/1	0.88	0.32	112,112,112,112	0
55	MG	CA	1675	1/1	0.88	0.24	97,97,97,97	0
55	MG	BA	3494	1/1	0.88	0.33	88,88,88,88	0
55	MG	BA	3223	1/1	0.88	0.27	64,64,64,64	0
55	MG	BA	3023	1/1	0.88	0.39	70,70,70,70	0
55	MG	AA	3091	1/1	0.88	0.43	78,78,78,78	0
55	MG	CA	1779	1/1	0.88	0.13	113,113,113,113	0
55	MG	BA	3249	1/1	0.88	0.21	40,40,40,40	0
55	MG	BA	3207	1/1	0.88	0.29	46,46,46,46	0
55	MG	AA	3572	1/1	0.88	0.49	54,54,54,54	0
55	MG	DA	1799	1/1	0.88	0.37	68,68,68,68	0
55	MG	BA	3234	1/1	0.88	0.30	67,67,67,67	0
55	MG	AA	3529	1/1	0.88	0.28	68,68,68,68	0
55	MG	AA	3521	1/1	0.88	0.45	75,75,75,75	0
55	MG	BA	3470	1/1	0.88	0.28	81,81,81,81	0
55	MG	BA	3316	1/1	0.88	0.26	67,67,67,67	0
55	MG	AA	3135	1/1	0.88	0.30	66,66,66,66	0
55	MG	BA	3150	1/1	0.88	0.40	96,96,96,96	0
55	MG	AA	3582	1/1	0.88	0.31	44,44,44,44	0
55	MG	CA	1818	1/1	0.88	0.25	89,89,89,89	0
55	MG	CA	1795	1/1	0.88	0.30	68,68,68,68	0
55	MG	DA	1783	1/1	0.88	0.33	86,86,86,86	0
55	MG	DB	102	1/1	0.88	0.11	107,107,107,107	0
55	MG	AA	3485	1/1	0.88	0.52	71,71,71,71	0
55	MG	CA	1625	1/1	0.88	0.18	71,71,71,71	0
55	MG	AA	3414	1/1	0.88	0.48	94,94,94,94	0
55	MG	BA	3508	1/1	0.88	0.34	73,73,73,73	0
55	MG	CA	1670	1/1	0.88	0.29	70,70,70,70	0
55	MG	AA	3342	1/1	0.88	0.49	70,70,70,70	0
55	MG	AA	3458	1/1	0.88	0.26	70,70,70,70	0
55	MG	AA	3405	1/1	0.88	0.72	90,90,90,90	0
55	MG	AA	3102	1/1	0.88	0.33	90,90,90,90	0
55	MG	AB	217	1/1	0.88	0.40	110,110,110,110	0
55	MG	DA	1727	1/1	0.88	0.36	86,86,86,86	0
55	MG	AA	3491	1/1	0.88	0.45	85,85,85,85	0
55	MG	AA	3297	1/1	0.88	0.38	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3323	1/1	0.88	0.55	74,74,74,74	0
55	MG	AA	3337	1/1	0.88	0.45	99,99,99,99	0
55	MG	BA	3504	1/1	0.88	0.15	117,117,117,117	0
55	MG	BA	3069	1/1	0.88	0.14	70,70,70,70	0
55	MG	BA	3096	1/1	0.88	0.19	89,89,89,89	0
55	MG	DA	1680	1/1	0.88	0.35	81,81,81,81	0
55	MG	BA	3309	1/1	0.88	0.30	80,80,80,80	0
55	MG	CA	1684	1/1	0.88	0.31	101,101,101,101	0
55	MG	AA	3388	1/1	0.88	0.51	85,85,85,85	0
55	MG	BA	3198	1/1	0.88	0.26	44,44,44,44	0
55	MG	DA	1716	1/1	0.88	0.42	105,105,105,105	0
55	MG	BA	3083	1/1	0.88	0.21	92,92,92,92	0
55	MG	BA	3306	1/1	0.89	0.25	86,86,86,86	0
55	MG	AA	3432	1/1	0.89	0.42	87,87,87,87	0
55	MG	AA	3505	1/1	0.89	0.57	85,85,85,85	0
55	MG	BA	3049	1/1	0.89	0.23	86,86,86,86	0
55	MG	BA	3419	1/1	0.89	0.13	99,99,99,99	0
55	MG	AA	3349	1/1	0.89	0.44	84,84,84,84	0
55	MG	AE	301	1/1	0.89	0.15	65,65,65,65	0
55	MG	AA	3553	1/1	0.89	0.35	87,87,87,87	0
55	MG	AA	3558	1/1	0.89	0.33	89,89,89,89	0
55	MG	CQ	101	1/1	0.89	0.18	102,102,102,102	0
55	MG	CA	1686	1/1	0.89	0.37	86,86,86,86	0
55	MG	CA	1802	1/1	0.89	0.23	77,77,77,77	0
55	MG	BA	3029	1/1	0.89	0.39	75,75,75,75	0
55	MG	DA	1699	1/1	0.89	0.40	68,68,68,68	0
55	MG	CA	1692	1/1	0.89	0.11	127,127,127,127	0
55	MG	CA	1721	1/1	0.89	0.28	89,89,89,89	0
55	MG	DA	1738	1/1	0.89	0.37	85,85,85,85	0
55	MG	AA	3009	1/1	0.89	0.33	63,63,63,63	0
55	MG	CA	1754	1/1	0.89	0.39	114,114,114,114	0
55	MG	DA	1651	1/1	0.89	0.27	72,72,72,72	0
55	MG	DA	1659	1/1	0.89	0.12	80,80,80,80	0
55	MG	DA	1750	1/1	0.89	0.19	84,84,84,84	0
55	MG	BA	3048	1/1	0.89	0.17	74,74,74,74	0
55	MG	BA	3291	1/1	0.89	0.26	67,67,67,67	0
55	MG	BA	3246	1/1	0.89	0.14	99,99,99,99	0
55	MG	AA	3170	1/1	0.89	0.17	41,41,41,41	0
55	MG	CA	1838	1/1	0.89	0.14	103,103,103,103	0
55	MG	AA	3200	1/1	0.89	0.35	71,71,71,71	0
55	MG	BA	3161	1/1	0.89	0.30	89,89,89,89	0
55	MG	BA	3340	1/1	0.89	0.16	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3122	1/1	0.89	0.20	84,84,84,84	0
55	MG	BA	3462	1/1	0.89	0.11	123,123,123,123	0
55	MG	AA	3315	1/1	0.89	0.48	70,70,70,70	0
55	MG	AA	3072	1/1	0.89	0.12	101,101,101,101	0
55	MG	AA	3585	1/1	0.89	0.61	91,91,91,91	0
55	MG	AA	3255	1/1	0.89	0.44	88,88,88,88	0
55	MG	AA	3134	1/1	0.89	0.36	79,79,79,79	0
55	MG	CA	1671	1/1	0.89	0.26	72,72,72,72	0
55	MG	AA	3351	1/1	0.89	0.37	82,82,82,82	0
55	MG	DA	1790	1/1	0.89	0.48	100,100,100,100	0
55	MG	AA	3609	1/1	0.89	0.28	62,62,62,62	0
55	MG	DA	1604	1/1	0.89	0.27	92,92,92,92	0
55	MG	AA	3065	1/1	0.89	0.42	88,88,88,88	0
55	MG	BA	3451	1/1	0.89	0.24	89,89,89,89	0
55	MG	BA	3523	1/1	0.89	0.43	84,84,84,84	0
55	MG	AA	3222	1/1	0.89	0.46	54,54,54,54	0
55	MG	BA	3103	1/1	0.89	0.19	82,82,82,82	0
55	MG	CA	1663	1/1	0.89	0.24	52,52,52,52	0
55	MG	AA	3234	1/1	0.89	0.38	82,82,82,82	0
55	MG	DA	1619	1/1	0.89	0.33	77,77,77,77	0
55	MG	AA	3211	1/1	0.89	0.32	58,58,58,58	0
55	MG	AA	3454	1/1	0.89	0.56	94,94,94,94	0
55	MG	BA	3233	1/1	0.89	0.36	74,74,74,74	0
55	MG	AA	3555	1/1	0.89	0.19	67,67,67,67	0
55	MG	AO	202	1/1	0.89	0.60	80,80,80,80	0
55	MG	AA	3089	1/1	0.89	0.54	64,64,64,64	0
55	MG	BA	3512	1/1	0.89	0.26	75,75,75,75	0
55	MG	AA	3196	1/1	0.89	0.21	61,61,61,61	0
55	MG	BA	3257	1/1	0.89	0.56	86,86,86,86	0
55	MG	AA	3298	1/1	0.89	0.59	73,73,73,73	0
55	MG	CA	1697	1/1	0.89	0.76	92,92,92,92	0
55	MG	CC	104	1/1	0.90	0.18	97,97,97,97	0
55	MG	DA	1694	1/1	0.90	0.60	84,84,84,84	0
55	MG	BA	3263	1/1	0.90	0.24	84,84,84,84	0
55	MG	AA	3481	1/1	0.90	0.15	112,112,112,112	0
55	MG	AA	3186	1/1	0.90	0.21	58,58,58,58	0
55	MG	AF	303	1/1	0.90	0.33	69,69,69,69	0
55	MG	BA	3042	1/1	0.90	0.16	86,86,86,86	0
55	MG	AA	3422	1/1	0.90	0.47	106,106,106,106	0
55	MG	AA	3208	1/1	0.90	0.23	44,44,44,44	0
55	MG	AA	3031	1/1	0.90	0.43	52,52,52,52	0
55	MG	AA	3596	1/1	0.90	0.49	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3349	1/1	0.90	0.28	93,93,93,93	0
55	MG	CA	1691	1/1	0.90	0.34	56,56,56,56	0
55	MG	AA	3526	1/1	0.90	0.42	90,90,90,90	0
55	MG	AA	3299	1/1	0.90	0.34	79,79,79,79	0
55	MG	BA	3213	1/1	0.90	0.26	75,75,75,75	0
55	MG	BA	3038	1/1	0.90	0.27	78,78,78,78	0
55	MG	CA	1839	1/1	0.90	0.21	68,68,68,68	0
55	MG	BA	3377	1/1	0.90	0.31	81,81,81,81	0
55	MG	DA	1726	1/1	0.90	0.50	79,79,79,79	0
55	MG	AA	3478	1/1	0.90	0.30	75,75,75,75	0
55	MG	DA	1751	1/1	0.90	0.35	124,124,124,124	0
55	MG	BB	205	1/1	0.90	0.21	86,86,86,86	0
55	MG	CA	1666	1/1	0.90	0.20	70,70,70,70	0
55	MG	BA	3267	1/1	0.90	0.23	62,62,62,62	0
55	MG	AA	3345	1/1	0.90	0.58	93,93,93,93	0
55	MG	BA	3431	1/1	0.90	0.25	84,84,84,84	0
55	MG	AA	3262	1/1	0.90	0.29	33,33,33,33	0
55	MG	BA	3240	1/1	0.90	0.33	72,72,72,72	0
55	MG	AA	3508	1/1	0.90	0.37	101,101,101,101	0
55	MG	AA	3088	1/1	0.90	0.22	42,42,42,42	0
55	MG	DA	1697	1/1	0.90	0.17	111,111,111,111	0
55	MG	CA	1785	1/1	0.90	0.57	89,89,89,89	0
55	MG	AA	3548	1/1	0.90	0.30	54,54,54,54	0
55	MG	CA	1769	1/1	0.90	0.09	79,79,79,79	0
55	MG	BA	3516	1/1	0.90	0.14	73,73,73,73	0
55	MG	DA	1650	1/1	0.90	0.47	95,95,95,95	0
55	MG	DA	1761	1/1	0.90	0.40	84,84,84,84	0
55	MG	AA	3062	1/1	0.90	0.37	86,86,86,86	0
55	MG	DA	1782	1/1	0.90	0.36	94,94,94,94	0
55	MG	AA	3050	1/1	0.90	0.76	108,108,108,108	0
55	MG	BA	3458	1/1	0.90	0.24	71,71,71,71	0
55	MG	AA	3592	1/1	0.90	0.35	76,76,76,76	0
55	MG	CA	1665	1/1	0.90	0.53	74,74,74,74	0
55	MG	DA	1731	1/1	0.90	0.43	70,70,70,70	0
55	MG	CA	1830	1/1	0.90	0.33	94,94,94,94	0
55	MG	BA	3192	1/1	0.90	0.35	72,72,72,72	0
55	MG	AA	3140	1/1	0.90	0.38	67,67,67,67	0
55	MG	BA	3372	1/1	0.90	0.38	105,105,105,105	0
55	MG	DA	1741	1/1	0.90	0.37	93,93,93,93	0
55	MG	AA	3293	1/1	0.90	0.20	77,77,77,77	0
55	MG	AA	3218	1/1	0.90	0.40	73,73,73,73	0
55	MG	AA	3333	1/1	0.90	0.47	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3245	1/1	0.90	0.19	72,72,72,72	0
55	MG	DA	1734	1/1	0.90	0.31	88,88,88,88	0
55	MG	CA	1742	1/1	0.90	0.13	115,115,115,115	0
55	MG	AA	3487	1/1	0.90	0.08	77,77,77,77	0
55	MG	AA	3598	1/1	0.90	0.29	87,87,87,87	0
55	MG	AA	3105	1/1	0.90	0.42	61,61,61,61	0
55	MG	BA	3243	1/1	0.90	0.26	65,65,65,65	0
55	MG	BA	3503	1/1	0.90	0.13	69,69,69,69	0
55	MG	DA	1735	1/1	0.90	0.38	106,106,106,106	0
55	MG	AA	3543	1/1	0.90	0.45	46,46,46,46	0
55	MG	BA	3007	1/1	0.90	0.07	83,83,83,83	0
55	MG	AA	3586	1/1	0.90	0.14	53,53,53,53	0
55	MG	BE	301	1/1	0.90	0.26	54,54,54,54	0
55	MG	BA	3509	1/1	0.90	0.34	73,73,73,73	0
55	MG	AA	3623	1/1	0.91	0.29	74,74,74,74	0
55	MG	CC	103	1/1	0.91	0.38	104,104,104,104	0
55	MG	AA	3506	1/1	0.91	0.20	80,80,80,80	0
55	MG	CA	1624	1/1	0.91	0.19	97,97,97,97	0
55	MG	BA	3254	1/1	0.91	0.46	69,69,69,69	0
55	MG	DA	1792	1/1	0.91	0.22	81,81,81,81	0
55	MG	DA	1752	1/1	0.91	0.37	89,89,89,89	0
55	MG	AA	3355	1/1	0.91	0.36	94,94,94,94	0
55	MG	BA	3054	1/1	0.91	0.17	81,81,81,81	0
55	MG	AU	201	1/1	0.91	0.23	85,85,85,85	0
55	MG	CA	1705	1/1	0.91	0.16	95,95,95,95	0
55	MG	DA	1687	1/1	0.91	0.39	72,72,72,72	0
55	MG	AA	3311	1/1	0.91	0.57	68,68,68,68	0
55	MG	AA	3431	1/1	0.91	0.31	89,89,89,89	0
55	MG	AA	3379	1/1	0.91	0.30	66,66,66,66	0
55	MG	BA	3199	1/1	0.91	0.37	76,76,76,76	0
55	MG	AA	3380	1/1	0.91	0.20	96,96,96,96	0
55	MG	AB	201	1/1	0.91	0.67	96,96,96,96	0
55	MG	AA	3214	1/1	0.91	0.44	47,47,47,47	0
55	MG	AA	3545	1/1	0.91	0.36	75,75,75,75	0
55	MG	AA	3300	1/1	0.91	0.44	81,81,81,81	0
55	MG	DA	1736	1/1	0.91	0.48	65,65,65,65	0
55	MG	AO	201	1/1	0.91	0.43	65,65,65,65	0
55	MG	AA	3092	1/1	0.91	0.31	71,71,71,71	0
55	MG	AA	3165	1/1	0.91	0.45	82,82,82,82	0
55	MG	DA	1605	1/1	0.91	0.43	82,82,82,82	0
55	MG	AA	3069	1/1	0.91	0.28	64,64,64,64	0
55	MG	AB	205	1/1	0.91	0.38	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	DA	1645	1/1	0.91	0.34	51,51,51,51	0
55	MG	AA	3191	1/1	0.91	0.17	95,95,95,95	0
55	MG	AA	3071	1/1	0.91	0.48	56,56,56,56	0
55	MG	DB	101	1/1	0.91	0.21	103,103,103,103	0
55	MG	AA	3145	1/1	0.91	0.63	91,91,91,91	0
55	MG	AA	3210	1/1	0.91	0.43	72,72,72,72	0
55	MG	AA	3399	1/1	0.91	0.30	60,60,60,60	0
55	MG	AA	3447	1/1	0.91	0.59	75,75,75,75	0
55	MG	AA	3103	1/1	0.91	0.39	97,97,97,97	0
55	MG	BA	3036	1/1	0.91	0.44	85,85,85,85	0
55	MG	BA	3177	1/1	0.91	0.27	75,75,75,75	0
55	MG	AA	3540	1/1	0.91	0.41	63,63,63,63	0
55	MG	BA	3190	1/1	0.91	0.23	73,73,73,73	0
55	MG	AA	3533	1/1	0.91	0.20	67,67,67,67	0
55	MG	AA	3474	1/1	0.91	0.34	65,65,65,65	0
55	MG	AA	3043	1/1	0.91	0.37	108,108,108,108	0
55	MG	AA	3240	1/1	0.91	0.32	80,80,80,80	0
55	MG	CA	1608	1/1	0.91	0.22	68,68,68,68	0
55	MG	AA	3287	1/1	0.91	0.28	69,69,69,69	0
55	MG	CA	1837	1/1	0.91	0.25	88,88,88,88	0
55	MG	DA	1681	1/1	0.91	0.22	106,106,106,106	0
55	MG	BA	3196	1/1	0.91	0.32	84,84,84,84	0
55	MG	BA	3187	1/1	0.91	0.37	65,65,65,65	0
55	MG	BA	3066	1/1	0.91	0.21	86,86,86,86	0
55	MG	AA	3188	1/1	0.91	0.51	57,57,57,57	0
55	MG	DA	1634	1/1	0.91	0.24	77,77,77,77	0
55	MG	AA	3406	1/1	0.91	0.41	83,83,83,83	0
55	MG	AA	3100	1/1	0.91	0.52	67,67,67,67	0
55	MG	BA	3388	1/1	0.91	0.32	87,87,87,87	0
55	MG	AA	3212	1/1	0.92	0.34	52,52,52,52	0
55	MG	AA	3081	1/1	0.92	0.56	51,51,51,51	0
55	MG	BA	3155	1/1	0.92	0.30	87,87,87,87	0
55	MG	AA	3164	1/1	0.92	0.25	95,95,95,95	0
55	MG	AA	3199	1/1	0.92	0.48	46,46,46,46	0
55	MG	CA	1751	1/1	0.92	0.23	78,78,78,78	0
55	MG	A5	101	1/1	0.92	0.21	51,51,51,51	0
55	MG	AA	3219	1/1	0.92	0.41	81,81,81,81	0
55	MG	AA	3146	1/1	0.92	0.41	65,65,65,65	0
55	MG	DA	1780	1/1	0.92	0.45	107,107,107,107	0
55	MG	BA	3307	1/1	0.92	0.35	106,106,106,106	0
55	MG	AA	3195	1/1	0.92	0.21	62,62,62,62	0
55	MG	AA	3216	1/1	0.92	0.33	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3383	1/1	0.92	0.29	85,85,85,85	0
55	MG	BA	3087	1/1	0.92	0.41	80,80,80,80	0
55	MG	DA	1732	1/1	0.92	0.39	94,94,94,94	0
55	MG	AA	3117	1/1	0.92	0.31	54,54,54,54	0
55	MG	DA	1668	1/1	0.92	0.16	73,73,73,73	0
55	MG	AA	3504	1/1	0.92	0.41	80,80,80,80	0
55	MG	BA	3015	1/1	0.92	0.20	71,71,71,71	0
55	MG	BA	3480	1/1	0.92	0.23	56,56,56,56	0
55	MG	AA	3326	1/1	0.92	0.31	64,64,64,64	0
55	MG	AA	3603	1/1	0.92	0.43	41,41,41,41	0
55	MG	BA	3271	1/1	0.92	0.32	84,84,84,84	0
55	MG	DA	1679	1/1	0.92	0.33	64,64,64,64	0
55	MG	BA	3142	1/1	0.92	0.23	70,70,70,70	0
55	MG	AA	3014	1/1	0.92	0.29	38,38,38,38	0
55	MG	BA	3228	1/1	0.92	0.35	74,74,74,74	0
55	MG	DA	1755	1/1	0.92	0.47	79,79,79,79	0
55	MG	CA	1614	1/1	0.92	0.32	101,101,101,101	0
55	MG	BA	3496	1/1	0.92	0.35	96,96,96,96	0
55	MG	DA	1666	1/1	0.92	0.35	115,115,115,115	0
55	MG	AA	3129	1/1	0.92	0.45	73,73,73,73	0
55	MG	CA	1636	1/1	0.92	0.29	91,91,91,91	0
55	MG	AA	3136	1/1	0.92	0.14	61,61,61,61	0
55	MG	BA	3518	1/1	0.92	0.42	74,74,74,74	0
55	MG	DA	1667	1/1	0.92	0.27	82,82,82,82	0
55	MG	BA	3452	1/1	0.92	0.14	96,96,96,96	0
55	MG	DA	1733	1/1	0.92	0.35	98,98,98,98	0
55	MG	BA	3180	1/1	0.92	0.29	57,57,57,57	0
55	MG	BA	3147	1/1	0.92	0.23	63,63,63,63	0
55	MG	BA	3440	1/1	0.92	0.23	80,80,80,80	0
55	MG	AA	3187	1/1	0.92	0.46	87,87,87,87	0
55	MG	CA	1713	1/1	0.92	0.29	83,83,83,83	0
55	MG	BP	201	1/1	0.92	0.18	65,65,65,65	0
55	MG	DA	1786	1/1	0.92	0.38	86,86,86,86	0
55	MG	DA	1616	1/1	0.92	0.35	100,100,100,100	0
55	MG	DA	1737	1/1	0.92	0.35	74,74,74,74	0
55	MG	CA	1674	1/1	0.92	0.33	102,102,102,102	0
55	MG	DA	1665	1/1	0.92	0.37	82,82,82,82	0
55	MG	BA	3013	1/1	0.92	0.26	74,74,74,74	0
55	MG	BA	3128	1/1	0.92	0.23	56,56,56,56	0
55	MG	AA	3128	1/1	0.92	0.38	56,56,56,56	0
55	MG	BA	3102	1/1	0.92	0.11	86,86,86,86	0
55	MG	BA	3315	1/1	0.92	0.17	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3138	1/1	0.92	0.41	45,45,45,45	0
55	MG	BB	202	1/1	0.92	0.14	103,103,103,103	0
55	MG	AA	3269	1/1	0.92	0.50	55,55,55,55	0
55	MG	BA	3284	1/1	0.93	0.12	61,61,61,61	0
55	MG	CA	1638	1/1	0.93	0.42	108,108,108,108	0
55	MG	CA	1780	1/1	0.93	0.34	55,55,55,55	0
55	MG	CA	1669	1/1	0.93	0.23	70,70,70,70	0
55	MG	BA	3082	1/1	0.93	0.37	76,76,76,76	0
55	MG	AA	3387	1/1	0.93	0.64	80,80,80,80	0
55	MG	AA	3246	1/1	0.93	0.52	73,73,73,73	0
55	MG	AA	3314	1/1	0.93	0.52	80,80,80,80	0
55	MG	AA	3535	1/1	0.93	0.16	103,103,103,103	0
55	MG	AA	3180	1/1	0.93	0.52	64,64,64,64	0
55	MG	DA	1691	1/1	0.93	0.48	82,82,82,82	0
55	MG	BA	3130	1/1	0.93	0.24	44,44,44,44	0
55	MG	BA	3144	1/1	0.93	0.50	95,95,95,95	0
55	MG	AA	3228	1/1	0.93	0.46	79,79,79,79	0
55	MG	AA	3162	1/1	0.93	0.30	45,45,45,45	0
55	MG	DA	1620	1/1	0.93	0.30	85,85,85,85	0
55	MG	BA	3279	1/1	0.93	0.34	73,73,73,73	0
55	MG	BA	3178	1/1	0.93	0.27	62,62,62,62	0
55	MG	CA	1789	1/1	0.93	0.07	71,71,71,71	0
55	MG	AA	3149	1/1	0.93	0.37	57,57,57,57	0
55	MG	CA	1772	1/1	0.93	0.21	83,83,83,83	0
55	MG	DA	1692	1/1	0.93	0.40	81,81,81,81	0
55	MG	AA	3119	1/1	0.93	0.38	75,75,75,75	0
55	MG	AA	3147	1/1	0.93	0.54	89,89,89,89	0
55	MG	AA	3281	1/1	0.93	0.45	74,74,74,74	0
55	MG	DA	1632	1/1	0.93	0.17	84,84,84,84	0
55	MG	CA	1680	1/1	0.93	0.31	79,79,79,79	0
55	MG	DA	1744	1/1	0.93	0.40	57,57,57,57	0
55	MG	BA	3206	1/1	0.93	0.26	98,98,98,98	0
55	MG	A7	102	1/1	0.93	0.46	68,68,68,68	0
55	MG	CA	1643	1/1	0.93	0.39	91,91,91,91	0
55	MG	BA	3214	1/1	0.93	0.27	77,77,77,77	0
55	MG	CA	1696	1/1	0.93	0.39	90,90,90,90	0
55	MG	BA	3148	1/1	0.93	0.23	91,91,91,91	0
55	MG	CA	1648	1/1	0.93	0.40	79,79,79,79	0
55	MG	BA	3220	1/1	0.93	0.32	40,40,40,40	0
55	MG	AA	3417	1/1	0.93	0.28	67,67,67,67	0
55	MG	AA	3232	1/1	0.93	0.66	104,104,104,104	0
55	MG	CA	1811	1/1	0.93	0.33	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3330	1/1	0.93	0.34	60,60,60,60	0
55	MG	BA	3018	1/1	0.93	0.29	83,83,83,83	0
55	MG	AA	3459	1/1	0.93	0.28	81,81,81,81	0
55	MG	BA	3385	1/1	0.93	0.18	97,97,97,97	0
55	MG	BA	3146	1/1	0.93	0.24	86,86,86,86	0
55	MG	AA	3457	1/1	0.93	0.56	64,64,64,64	0
55	MG	B1	201	1/1	0.93	0.23	82,82,82,82	0
55	MG	DA	1701	1/1	0.93	0.52	80,80,80,80	0
55	MG	BA	3253	1/1	0.93	0.42	66,66,66,66	0
55	MG	BA	3250	1/1	0.93	0.24	58,58,58,58	0
55	MG	AA	3472	1/1	0.93	0.67	80,80,80,80	0
55	MG	AA	3045	1/1	0.93	0.49	54,54,54,54	0
55	MG	CA	1700	1/1	0.93	0.09	72,72,72,72	0
55	MG	CA	1740	1/1	0.93	0.38	72,72,72,72	0
55	MG	BA	3251	1/1	0.93	0.24	81,81,81,81	0
55	MG	CA	1732	1/1	0.93	0.33	69,69,69,69	0
55	MG	CA	1654	1/1	0.93	0.38	75,75,75,75	0
55	MG	AA	3059	1/1	0.93	0.42	80,80,80,80	0
55	MG	AA	3150	1/1	0.93	0.54	59,59,59,59	0
55	MG	AA	3248	1/1	0.93	0.51	74,74,74,74	0
55	MG	BA	3238	1/1	0.93	0.26	66,66,66,66	0
55	MG	BA	3183	1/1	0.93	0.19	80,80,80,80	0
55	MG	DA	1657	1/1	0.93	0.46	95,95,95,95	0
55	MG	AA	3544	1/1	0.93	0.37	63,63,63,63	0
55	MG	CA	1609	1/1	0.93	0.43	78,78,78,78	0
55	MG	AA	3530	1/1	0.93	0.39	79,79,79,79	0
55	MG	BA	3317	1/1	0.93	0.32	91,91,91,91	0
55	MG	AA	3229	1/1	0.93	0.20	89,89,89,89	0
55	MG	AA	3086	1/1	0.93	0.57	62,62,62,62	0
55	MG	AB	215	1/1	0.93	0.39	93,93,93,93	0
55	MG	CA	1820	1/1	0.93	0.43	88,88,88,88	0
55	MG	AA	3159	1/1	0.93	0.07	28,28,28,28	0
55	MG	CA	1807	1/1	0.93	0.38	64,64,64,64	0
55	MG	AA	3575	1/1	0.93	0.39	42,42,42,42	0
55	MG	AA	3239	1/1	0.94	0.45	60,60,60,60	0
55	MG	BA	3186	1/1	0.94	0.28	52,52,52,52	0
55	MG	AA	3157	1/1	0.94	0.45	39,39,39,39	0
55	MG	AA	3563	1/1	0.94	0.40	52,52,52,52	0
55	MG	AA	3032	1/1	0.94	0.32	65,65,65,65	0
55	MG	DA	1696	1/1	0.94	0.32	66,66,66,66	0
55	MG	AA	3403	1/1	0.94	0.28	91,91,91,91	0
55	MG	AA	3033	1/1	0.94	0.33	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	AA	3569	1/1	0.94	0.31	60,60,60,60	0
55	MG	AA	3282	1/1	0.94	0.39	78,78,78,78	0
55	MG	BA	3365	1/1	0.94	0.38	90,90,90,90	0
55	MG	AA	3167	1/1	0.94	0.38	50,50,50,50	0
55	MG	CA	1746	1/1	0.94	0.25	98,98,98,98	0
55	MG	CA	1622	1/1	0.94	0.15	86,86,86,86	0
55	MG	BA	3160	1/1	0.94	0.30	82,82,82,82	0
55	MG	DA	1715	1/1	0.94	0.31	92,92,92,92	0
55	MG	AA	3389	1/1	0.94	0.55	72,72,72,72	0
55	MG	BA	3173	1/1	0.94	0.39	50,50,50,50	0
55	MG	BA	3511	1/1	0.94	0.21	68,68,68,68	0
55	MG	BA	3501	1/1	0.94	0.16	88,88,88,88	0
55	MG	BA	3071	1/1	0.94	0.29	78,78,78,78	0
55	MG	BA	3437	1/1	0.94	0.35	73,73,73,73	0
55	MG	AA	3244	1/1	0.94	0.44	45,45,45,45	0
55	MG	BA	3456	1/1	0.94	0.23	88,88,88,88	0
55	MG	DA	1729	1/1	0.94	0.46	84,84,84,84	0
55	MG	CA	1678	1/1	0.94	0.29	69,69,69,69	0
55	MG	AA	3054	1/1	0.94	0.29	62,62,62,62	0
55	MG	BA	3224	1/1	0.94	0.26	51,51,51,51	0
55	MG	CA	1673	1/1	0.94	0.40	76,76,76,76	0
55	MG	CA	1781	1/1	0.94	0.38	62,62,62,62	0
55	MG	AA	3546	1/1	0.94	0.25	74,74,74,74	0
55	MG	AA	3181	1/1	0.94	0.39	66,66,66,66	0
55	MG	CA	1801	1/1	0.94	0.24	84,84,84,84	0
55	MG	AA	3152	1/1	0.94	0.54	58,58,58,58	0
55	MG	AA	3226	1/1	0.94	0.30	77,77,77,77	0
55	MG	CA	1744	1/1	0.94	0.46	57,57,57,57	0
55	MG	BA	3272	1/1	0.94	0.38	81,81,81,81	0
55	MG	AA	3013	1/1	0.94	0.34	44,44,44,44	0
55	MG	AA	3460	1/1	0.94	0.26	106,106,106,106	0
56	PAR	DA	1805	42/42	0.94	0.21	46,59,73,84	0
55	MG	BA	3417	1/1	0.94	0.14	88,88,88,88	0
55	MG	BA	3514	1/1	0.94	0.34	51,51,51,51	0
55	MG	CA	1631	1/1	0.94	0.21	74,74,74,74	0
55	MG	AA	3621	1/1	0.94	0.46	91,91,91,91	0
55	MG	AA	3076	1/1	0.94	0.38	82,82,82,82	0
55	MG	DA	1675	1/1	0.94	0.39	60,60,60,60	0
55	MG	AA	3051	1/1	0.94	0.33	71,71,71,71	0
55	MG	AA	3058	1/1	0.94	0.29	64,64,64,64	0
55	MG	CA	1651	1/1	0.94	0.38	75,75,75,75	0
55	MG	AA	3179	1/1	0.94	0.29	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3168	1/1	0.94	0.31	68,68,68,68	0
55	MG	CA	1602	1/1	0.94	0.17	74,74,74,74	0
55	MG	BA	3274	1/1	0.94	0.19	90,90,90,90	0
55	MG	AA	3114	1/1	0.94	0.50	56,56,56,56	0
55	MG	CA	1606	1/1	0.94	0.07	94,94,94,94	0
55	MG	AA	3570	1/1	0.94	0.39	41,41,41,41	0
55	MG	BA	3425	1/1	0.94	0.49	85,85,85,85	0
55	MG	AA	3047	1/1	0.94	0.26	60,60,60,60	0
55	MG	DA	1674	1/1	0.94	0.27	76,76,76,76	0
55	MG	BA	3143	1/1	0.94	0.21	63,63,63,63	0
55	MG	CA	1835	1/1	0.94	0.16	87,87,87,87	0
55	MG	BA	3022	1/1	0.94	0.23	75,75,75,75	0
55	MG	DA	1796	1/1	0.94	0.25	97,97,97,97	0
55	MG	BA	3418	1/1	0.94	0.17	73,73,73,73	0
55	MG	BA	3493	1/1	0.94	0.27	39,39,39,39	0
55	MG	BA	3194	1/1	0.94	0.38	70,70,70,70	0
55	MG	AA	3514	1/1	0.94	0.36	67,67,67,67	0
55	MG	CA	1699	1/1	0.94	0.11	63,63,63,63	0
55	MG	AA	3401	1/1	0.94	0.49	93,93,93,93	0
55	MG	BA	3491	1/1	0.94	0.10	49,49,49,49	0
55	MG	BA	3184	1/1	0.94	0.14	76,76,76,76	0
55	MG	BA	3171	1/1	0.94	0.24	63,63,63,63	0
55	MG	CA	1632	1/1	0.94	0.21	76,76,76,76	0
55	MG	AB	207	1/1	0.94	0.20	103,103,103,103	0
55	MG	AA	3520	1/1	0.94	0.27	68,68,68,68	0
55	MG	CA	1792	1/1	0.94	0.31	81,81,81,81	0
55	MG	AA	3324	1/1	0.94	0.24	92,92,92,92	0
55	MG	AA	3617	1/1	0.94	0.46	92,92,92,92	0
55	MG	CA	1618	1/1	0.94	0.28	94,94,94,94	0
55	MG	BA	3276	1/1	0.94	0.14	88,88,88,88	0
55	MG	AA	3517	1/1	0.94	0.20	66,66,66,66	0
55	MG	AA	3584	1/1	0.94	0.15	63,63,63,63	0
55	MG	BA	3292	1/1	0.94	0.36	51,51,51,51	0
55	MG	AA	3087	1/1	0.94	0.45	76,76,76,76	0
55	MG	DA	1610	1/1	0.94	0.24	97,97,97,97	0
55	MG	AA	3321	1/1	0.94	0.33	65,65,65,65	0
55	MG	BA	3152	1/1	0.94	0.19	73,73,73,73	0
55	MG	AA	3144	1/1	0.95	0.47	45,45,45,45	0
55	MG	BE	303	1/1	0.95	0.23	57,57,57,57	0
55	MG	AA	3471	1/1	0.95	0.45	85,85,85,85	0
55	MG	BA	3328	1/1	0.95	0.14	61,61,61,61	0
55	MG	DC	103	1/1	0.95	0.33	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	DA	1704	1/1	0.95	0.49	87,87,87,87	0
55	MG	BA	3139	1/1	0.95	0.19	58,58,58,58	0
55	MG	AA	3578	1/1	0.95	0.39	50,50,50,50	0
55	MG	BA	3300	1/1	0.95	0.38	56,56,56,56	0
55	MG	AA	3085	1/1	0.95	0.41	34,34,34,34	0
55	MG	CA	1786	1/1	0.95	0.08	74,74,74,74	0
55	MG	CA	1840	1/1	0.95	0.32	69,69,69,69	0
55	MG	AB	203	1/1	0.95	0.42	69,69,69,69	0
55	MG	CA	1682	1/1	0.95	0.16	106,106,106,106	0
55	MG	AA	3052	1/1	0.95	0.29	73,73,73,73	0
55	MG	DA	1622	1/1	0.95	0.13	98,98,98,98	0
55	MG	A1	201	1/1	0.95	0.37	64,64,64,64	0
55	MG	DA	1644	1/1	0.95	0.31	82,82,82,82	0
55	MG	BA	3028	1/1	0.95	0.50	85,85,85,85	0
55	MG	AA	3137	1/1	0.95	0.12	51,51,51,51	0
55	MG	AA	3285	1/1	0.95	0.52	80,80,80,80	0
56	PAR	CA	1841	42/42	0.95	0.30	40,56,74,83	0
55	MG	AA	3011	1/1	0.95	0.37	37,37,37,37	0
55	MG	CA	1645	1/1	0.95	0.42	60,60,60,60	0
55	MG	AA	3037	1/1	0.95	0.35	69,69,69,69	0
55	MG	CA	1749	1/1	0.95	0.32	62,62,62,62	0
55	MG	DA	1646	1/1	0.95	0.27	65,65,65,65	0
55	MG	BA	3126	1/1	0.95	0.21	51,51,51,51	0
55	MG	BA	3265	1/1	0.95	0.46	86,86,86,86	0
55	MG	DA	1658	1/1	0.95	0.21	113,113,113,113	0
55	MG	DA	1670	1/1	0.95	0.36	49,49,49,49	0
55	MG	AA	3550	1/1	0.95	0.52	39,39,39,39	0
55	MG	BA	3006	1/1	0.95	0.09	47,47,47,47	0
55	MG	BA	3400	1/1	0.95	0.28	74,74,74,74	0
55	MG	CA	1763	1/1	0.95	0.44	81,81,81,81	0
55	MG	AA	3288	1/1	0.95	0.62	90,90,90,90	0
55	MG	AA	3066	1/1	0.95	0.53	48,48,48,48	0
55	MG	BA	3483	1/1	0.95	0.32	34,34,34,34	0
55	MG	BA	3325	1/1	0.95	0.42	50,50,50,50	0
55	MG	BA	3136	1/1	0.95	0.23	43,43,43,43	0
55	MG	CA	1708	1/1	0.95	0.42	45,45,45,45	0
55	MG	AA	3339	1/1	0.95	0.35	85,85,85,85	0
55	MG	BA	3230	1/1	0.95	0.19	68,68,68,68	0
55	MG	CA	1610	1/1	0.95	0.32	54,54,54,54	0
55	MG	AA	3090	1/1	0.95	0.30	45,45,45,45	0
55	MG	AA	3002	1/1	0.95	0.43	41,41,41,41	0
55	MG	BA	3428	1/1	0.95	0.11	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3280	1/1	0.95	0.35	74,74,74,74	0
55	MG	AA	3036	1/1	0.95	0.21	39,39,39,39	0
55	MG	DA	1612	1/1	0.95	0.14	73,73,73,73	0
55	MG	BA	3242	1/1	0.95	0.35	62,62,62,62	0
55	MG	AA	3044	1/1	0.95	0.41	52,52,52,52	0
55	MG	AA	3041	1/1	0.95	0.33	66,66,66,66	0
55	MG	AA	3528	1/1	0.95	0.49	76,76,76,76	0
55	MG	BA	3319	1/1	0.95	0.43	68,68,68,68	0
55	MG	BA	3149	1/1	0.95	0.23	72,72,72,72	0
55	MG	AA	3551	1/1	0.95	0.31	69,69,69,69	0
55	MG	BA	3244	1/1	0.95	0.34	54,54,54,54	0
55	MG	AA	3257	1/1	0.95	0.42	79,79,79,79	0
55	MG	BA	3261	1/1	0.95	0.37	65,65,65,65	0
55	MG	AA	3581	1/1	0.95	0.12	36,36,36,36	0
55	MG	AA	3590	1/1	0.95	0.31	81,81,81,81	0
55	MG	BA	3060	1/1	0.95	0.17	51,51,51,51	0
55	MG	AA	3040	1/1	0.95	0.31	68,68,68,68	0
55	MG	DA	1690	1/1	0.95	0.41	92,92,92,92	0
55	MG	BA	3080	1/1	0.95	0.20	72,72,72,72	0
55	MG	AA	3106	1/1	0.95	0.35	69,69,69,69	0
55	MG	AA	3312	1/1	0.95	0.46	76,76,76,76	0
55	MG	AA	3477	1/1	0.95	0.60	86,86,86,86	0
55	MG	BB	211	1/1	0.95	0.31	71,71,71,71	0
55	MG	BA	3053	1/1	0.95	0.36	65,65,65,65	0
55	MG	A0	201	1/1	0.95	0.21	62,62,62,62	0
55	MG	BA	3197	1/1	0.95	0.11	76,76,76,76	0
55	MG	BA	3314	1/1	0.95	0.29	71,71,71,71	0
55	MG	AA	3143	1/1	0.95	0.38	35,35,35,35	0
55	MG	BA	3157	1/1	0.95	0.42	93,93,93,93	0
55	MG	AA	3213	1/1	0.95	0.46	59,59,59,59	0
55	MG	BA	3486	1/1	0.95	0.24	30,30,30,30	0
55	MG	BA	3129	1/1	0.95	0.24	41,41,41,41	0
55	MG	CC	106	1/1	0.95	0.21	92,92,92,92	0
55	MG	BA	3181	1/1	0.95	0.15	49,49,49,49	0
55	MG	AA	3343	1/1	0.95	0.35	74,74,74,74	0
55	MG	AA	3243	1/1	0.95	0.39	51,51,51,51	0
55	MG	DA	1656	1/1	0.95	0.37	99,99,99,99	0
55	MG	AA	3591	1/1	0.95	0.18	74,74,74,74	0
55	MG	AA	3318	1/1	0.96	0.29	92,92,92,92	0
55	MG	CA	1650	1/1	0.96	0.40	73,73,73,73	0
55	MG	AA	3068	1/1	0.96	0.36	72,72,72,72	0
55	MG	BA	3283	1/1	0.96	0.23	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3577	1/1	0.96	0.19	52,52,52,52	0
55	MG	BA	3166	1/1	0.96	0.32	40,40,40,40	0
55	MG	BA	3484	1/1	0.96	0.25	65,65,65,65	0
55	MG	AA	3573	1/1	0.96	0.34	31,31,31,31	0
55	MG	BA	3182	1/1	0.96	0.17	47,47,47,47	0
55	MG	BA	3430	1/1	0.96	0.08	89,89,89,89	0
55	MG	CA	1627	1/1	0.96	0.25	65,65,65,65	0
55	MG	AA	3095	1/1	0.96	0.29	89,89,89,89	0
55	MG	AA	3142	1/1	0.96	0.22	71,71,71,71	0
55	MG	AA	3057	1/1	0.96	0.41	66,66,66,66	0
55	MG	AA	3209	1/1	0.96	0.37	81,81,81,81	0
55	MG	BA	3324	1/1	0.96	0.38	75,75,75,75	0
55	MG	DA	1706	1/1	0.96	0.61	90,90,90,90	0
55	MG	AA	3202	1/1	0.96	0.29	46,46,46,46	0
55	MG	AA	3484	1/1	0.96	0.21	44,44,44,44	0
55	MG	AA	3161	1/1	0.96	0.33	42,42,42,42	0
55	MG	AA	3034	1/1	0.96	0.40	52,52,52,52	0
55	MG	DA	1643	1/1	0.96	0.39	81,81,81,81	0
55	MG	AA	3166	1/1	0.96	0.38	53,53,53,53	0
55	MG	BA	3403	1/1	0.96	0.19	77,77,77,77	0
55	MG	DA	1742	1/1	0.96	0.26	82,82,82,82	0
55	MG	BA	3200	1/1	0.96	0.38	65,65,65,65	0
55	MG	BA	3097	1/1	0.96	0.25	60,60,60,60	0
55	MG	AA	3247	1/1	0.96	0.42	74,74,74,74	0
55	MG	AA	3534	1/1	0.96	0.43	49,49,49,49	0
55	MG	CA	1836	1/1	0.96	0.26	71,71,71,71	0
55	MG	CA	1601	1/1	0.96	0.19	56,56,56,56	0
55	MG	BA	3492	1/1	0.96	0.28	47,47,47,47	0
55	MG	BA	3352	1/1	0.96	0.42	102,102,102,102	0
55	MG	BA	3137	1/1	0.96	0.30	48,48,48,48	0
55	MG	AA	3175	1/1	0.96	0.20	45,45,45,45	0
55	MG	AA	3123	1/1	0.96	0.42	52,52,52,52	0
55	MG	AA	3124	1/1	0.96	0.51	47,47,47,47	0
55	MG	AA	3006	1/1	0.96	0.54	46,46,46,46	0
55	MG	BA	3123	1/1	0.96	0.13	77,77,77,77	0
55	MG	AA	3567	1/1	0.96	0.25	39,39,39,39	0
55	MG	CA	1702	1/1	0.96	0.09	71,71,71,71	0
55	MG	AA	3115	1/1	0.96	0.55	70,70,70,70	0
55	MG	AA	3010	1/1	0.96	0.39	47,47,47,47	0
55	MG	AA	3177	1/1	0.96	0.46	46,46,46,46	0
55	MG	AA	3001	1/1	0.96	0.45	44,44,44,44	0
55	MG	BA	3208	1/1	0.96	0.24	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	AA	3220	1/1	0.96	0.41	70,70,70,70	0
55	MG	BA	3159	1/1	0.96	0.23	83,83,83,83	0
55	MG	AA	3074	1/1	0.96	0.51	68,68,68,68	0
55	MG	DA	1721	1/1	0.96	0.36	71,71,71,71	0
55	MG	BA	3409	1/1	0.96	0.30	71,71,71,71	0
55	MG	AA	3606	1/1	0.96	0.53	61,61,61,61	0
55	MG	AA	3111	1/1	0.96	0.51	36,36,36,36	0
55	MG	DC	105	1/1	0.96	0.38	75,75,75,75	0
55	MG	AA	3267	1/1	0.96	0.36	62,62,62,62	0
55	MG	AA	3597	1/1	0.96	0.17	91,91,91,91	0
55	MG	BA	3229	1/1	0.96	0.32	50,50,50,50	0
55	MG	AA	3434	1/1	0.96	0.50	44,44,44,44	0
55	MG	AA	3005	1/1	0.96	0.30	25,25,25,25	0
55	MG	BA	3497	1/1	0.96	0.23	63,63,63,63	0
55	MG	AA	3266	1/1	0.96	0.47	49,49,49,49	0
55	MG	AA	3061	1/1	0.96	0.26	79,79,79,79	0
55	MG	AA	3015	1/1	0.96	0.40	44,44,44,44	0
55	MG	BA	3222	1/1	0.96	0.18	54,54,54,54	0
55	MG	BA	3219	1/1	0.96	0.25	48,48,48,48	0
55	MG	BA	3231	1/1	0.96	0.24	47,47,47,47	0
55	MG	DA	1676	1/1	0.96	0.43	82,82,82,82	0
55	MG	BA	3100	1/1	0.96	0.24	66,66,66,66	0
55	MG	AA	3600	1/1	0.96	0.45	74,74,74,74	0
55	MG	AA	3028	1/1	0.96	0.38	54,54,54,54	0
55	MG	B5	101	1/1	0.96	0.20	61,61,61,61	0
55	MG	BA	3275	1/1	0.96	0.38	52,52,52,52	0
55	MG	CA	1657	1/1	0.96	0.32	63,63,63,63	0
55	MG	BA	3217	1/1	0.96	0.30	39,39,39,39	0
55	MG	AA	3020	1/1	0.96	0.24	39,39,39,39	0
55	MG	BA	3288	1/1	0.96	0.22	98,98,98,98	0
55	MG	AA	3574	1/1	0.96	0.34	54,54,54,54	0
55	MG	AA	3151	1/1	0.96	0.45	58,58,58,58	0
55	MG	AA	3029	1/1	0.96	0.20	46,46,46,46	0
55	MG	BA	3141	1/1	0.96	0.23	72,72,72,72	0
55	MG	CA	1607	1/1	0.96	0.41	93,93,93,93	0
55	MG	BA	3158	1/1	0.96	0.21	70,70,70,70	0
55	MG	CA	1825	1/1	0.96	0.07	114,114,114,114	0
55	MG	BA	3052	1/1	0.96	0.29	58,58,58,58	0
55	MG	AA	3284	1/1	0.96	0.43	81,81,81,81	0
55	MG	BA	3014	1/1	0.96	0.26	72,72,72,72	0
55	MG	BA	3481	1/1	0.96	0.26	49,49,49,49	0
55	MG	BA	3001	1/1	0.96	0.30	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
55	MG	BA	3236	1/1	0.96	0.43	41,41,41,41	0
55	MG	CA	1620	1/1	0.96	0.19	74,74,74,74	0
55	MG	AA	3368	1/1	0.96	0.48	90,90,90,90	0
55	MG	AA	3049	1/1	0.96	0.36	80,80,80,80	0
55	MG	DA	1672	1/1	0.96	0.32	63,63,63,63	0
55	MG	AA	3283	1/1	0.96	0.38	91,91,91,91	0
55	MG	AA	3571	1/1	0.96	0.19	52,52,52,52	0
55	MG	BA	3059	1/1	0.96	0.26	50,50,50,50	0
55	MG	BA	3154	1/1	0.96	0.14	46,46,46,46	0
55	MG	AA	3462	1/1	0.97	0.33	85,85,85,85	0
55	MG	AA	3127	1/1	0.97	0.37	53,53,53,53	0
55	MG	BA	3485	1/1	0.97	0.28	46,46,46,46	0
55	MG	BA	3012	1/1	0.97	0.32	63,63,63,63	0
55	MG	AA	3178	1/1	0.97	0.17	54,54,54,54	0
55	MG	CC	105	1/1	0.97	0.22	105,105,105,105	0
55	MG	AA	3614	1/1	0.97	0.55	78,78,78,78	0
55	MG	AA	3450	1/1	0.97	0.46	72,72,72,72	0
55	MG	AA	3153	1/1	0.97	0.26	48,48,48,48	0
55	MG	CA	1667	1/1	0.97	0.27	77,77,77,77	0
55	MG	BD	301	1/1	0.97	0.20	39,39,39,39	0
55	MG	DA	1653	1/1	0.97	0.24	96,96,96,96	0
55	MG	AA	3018	1/1	0.97	0.36	43,43,43,43	0
55	MG	BA	3002	1/1	0.97	0.22	66,66,66,66	0
55	MG	AA	3008	1/1	0.97	0.37	44,44,44,44	0
55	MG	AA	3476	1/1	0.97	0.63	79,79,79,79	0
55	MG	AA	3566	1/1	0.97	0.29	27,27,27,27	0
55	MG	AA	3025	1/1	0.97	0.39	40,40,40,40	0
55	MG	CA	1664	1/1	0.97	0.13	47,47,47,47	0
55	MG	BA	3140	1/1	0.97	0.26	42,42,42,42	0
55	MG	AA	3021	1/1	0.97	0.30	42,42,42,42	0
55	MG	AA	3101	1/1	0.97	0.32	79,79,79,79	0
55	MG	BA	3133	1/1	0.97	0.22	50,50,50,50	0
55	MG	AA	3230	1/1	0.97	0.10	34,34,34,34	0
55	MG	AA	3541	1/1	0.97	0.24	48,48,48,48	0
55	MG	BA	3016	1/1	0.97	0.07	56,56,56,56	0
55	MG	DA	1652	1/1	0.97	0.17	85,85,85,85	0
55	MG	BA	3515	1/1	0.97	0.21	59,59,59,59	0
55	MG	AA	3568	1/1	0.97	0.24	49,49,49,49	0
55	MG	BA	3517	1/1	0.97	0.21	61,61,61,61	0
55	MG	AA	3098	1/1	0.97	0.40	81,81,81,81	0
55	MG	BA	3167	1/1	0.97	0.29	59,59,59,59	0
55	MG	AE	302	1/1	0.97	0.41	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3489	1/1	0.97	0.40	68,68,68,68	0
55	MG	CA	1796	1/1	0.97	0.44	82,82,82,82	0
55	MG	BA	3255	1/1	0.97	0.37	52,52,52,52	0
55	MG	BA	3227	1/1	0.97	0.37	50,50,50,50	0
55	MG	CA	1604	1/1	0.97	0.34	77,77,77,77	0
55	MG	AA	3608	1/1	0.97	0.27	41,41,41,41	0
55	MG	BA	3017	1/1	0.97	0.34	50,50,50,50	0
55	MG	DA	1724	1/1	0.97	0.45	72,72,72,72	0
55	MG	AA	3083	1/1	0.97	0.39	34,34,34,34	0
55	MG	BA	3011	1/1	0.97	0.29	65,65,65,65	0
55	MG	CA	1658	1/1	0.97	0.43	50,50,50,50	0
55	MG	AA	3516	1/1	0.97	0.31	76,76,76,76	0
55	MG	AA	3084	1/1	0.97	0.26	43,43,43,43	0
55	MG	DA	1638	1/1	0.97	0.25	74,74,74,74	0
55	MG	DA	1648	1/1	0.97	0.10	69,69,69,69	0
55	MG	AA	3116	1/1	0.97	0.47	37,37,37,37	0
55	MG	AA	3233	1/1	0.97	0.30	55,55,55,55	0
55	MG	AA	3070	1/1	0.97	0.31	68,68,68,68	0
55	MG	BA	3295	1/1	0.97	0.17	58,58,58,58	0
55	MG	AA	3113	1/1	0.97	0.50	49,49,49,49	0
55	MG	BA	3062	1/1	0.97	0.26	110,110,110,110	0
55	MG	DA	1617	1/1	0.97	0.28	102,102,102,102	0
55	MG	AB	210	1/1	0.97	0.38	65,65,65,65	0
55	MG	AA	3204	1/1	0.97	0.31	44,44,44,44	0
55	MG	AA	3019	1/1	0.97	0.29	55,55,55,55	0
55	MG	DA	1705	1/1	0.97	0.35	97,97,97,97	0
55	MG	AA	3174	1/1	0.97	0.41	40,40,40,40	0
55	MG	DA	1673	1/1	0.97	0.12	88,88,88,88	0
55	MG	AA	3400	1/1	0.97	0.47	39,39,39,39	0
55	MG	BA	3135	1/1	0.97	0.33	52,52,52,52	0
55	MG	BA	3248	1/1	0.97	0.22	54,54,54,54	0
57	ZN	DQ	101	1/1	0.97	0.17	118,118,118,118	0
55	MG	AA	3352	1/1	0.97	0.35	52,52,52,52	0
55	MG	BA	3218	1/1	0.97	0.35	51,51,51,51	0
55	MG	AA	3205	1/1	0.97	0.35	55,55,55,55	0
55	MG	AA	3133	1/1	0.97	0.51	46,46,46,46	0
55	MG	AA	3192	1/1	0.97	0.35	63,63,63,63	0
55	MG	DC	102	1/1	0.97	0.16	74,74,74,74	0
55	MG	DA	1723	1/1	0.97	0.32	83,83,83,83	0
55	MG	AA	3607	1/1	0.97	0.36	44,44,44,44	0
55	MG	AA	3427	1/1	0.97	0.38	82,82,82,82	0
55	MG	BA	3490	1/1	0.97	0.25	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3179	1/1	0.97	0.34	61,61,61,61	0
55	MG	AA	3082	1/1	0.97	0.38	50,50,50,50	0
55	MG	AA	3306	1/1	0.97	0.40	65,65,65,65	0
55	MG	BA	3239	1/1	0.97	0.24	80,80,80,80	0
55	MG	CA	1777	1/1	0.97	0.35	92,92,92,92	0
55	MG	CA	1605	1/1	0.97	0.27	86,86,86,86	0
55	MG	AA	3046	1/1	0.98	0.14	57,57,57,57	0
55	MG	BA	3127	1/1	0.98	0.38	55,55,55,55	0
55	MG	DA	1654	1/1	0.98	0.41	92,92,92,92	0
55	MG	BA	3169	1/1	0.98	0.25	56,56,56,56	0
55	MG	CA	1619	1/1	0.98	0.26	59,59,59,59	0
55	MG	AA	3026	1/1	0.98	0.24	40,40,40,40	0
55	MG	BA	3412	1/1	0.98	0.41	50,50,50,50	0
55	MG	AA	3565	1/1	0.98	0.37	53,53,53,53	0
55	MG	AA	3112	1/1	0.98	0.59	45,45,45,45	0
55	MG	AA	3141	1/1	0.98	0.35	50,50,50,50	0
55	MG	BA	3264	1/1	0.98	0.25	59,59,59,59	0
55	MG	BA	3211	1/1	0.98	0.25	57,57,57,57	0
55	MG	BA	3221	1/1	0.98	0.25	37,37,37,37	0
55	MG	AA	3154	1/1	0.98	0.44	52,52,52,52	0
55	MG	BA	3285	1/1	0.98	0.19	45,45,45,45	0
55	MG	AA	3576	1/1	0.98	0.47	46,46,46,46	0
55	MG	BA	3168	1/1	0.98	0.21	60,60,60,60	0
55	MG	BA	3225	1/1	0.98	0.20	78,78,78,78	0
55	MG	AA	3130	1/1	0.98	0.22	67,67,67,67	0
55	MG	BA	3488	1/1	0.98	0.14	59,59,59,59	0
55	MG	AA	3539	1/1	0.98	0.30	49,49,49,49	0
55	MG	BA	3131	1/1	0.98	0.17	49,49,49,49	0
55	MG	AA	3022	1/1	0.98	0.27	49,49,49,49	0
55	MG	CA	1642	1/1	0.98	0.32	69,69,69,69	0
55	MG	AA	3023	1/1	0.98	0.55	56,56,56,56	0
55	MG	DA	1609	1/1	0.98	0.23	116,116,116,116	0
57	ZN	CG	303	1/1	0.98	0.34	95,95,95,95	0
55	MG	AA	3160	1/1	0.98	0.30	32,32,32,32	0
55	MG	BA	3009	1/1	0.98	0.25	48,48,48,48	0
55	MG	DA	1689	1/1	0.98	0.33	72,72,72,72	0
55	MG	AA	3024	1/1	0.98	0.39	45,45,45,45	0
55	MG	AA	3538	1/1	0.98	0.32	36,36,36,36	0
55	MG	BA	3156	1/1	0.98	0.40	87,87,87,87	0
55	MG	CA	1660	1/1	0.98	0.38	64,64,64,64	0
55	MG	BA	3237	1/1	0.98	0.21	47,47,47,47	0
55	MG	BA	3210	1/1	0.98	0.37	55,55,55,55	0

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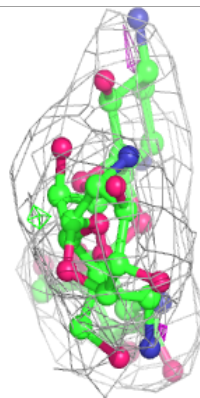
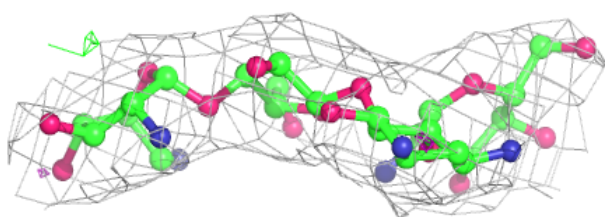
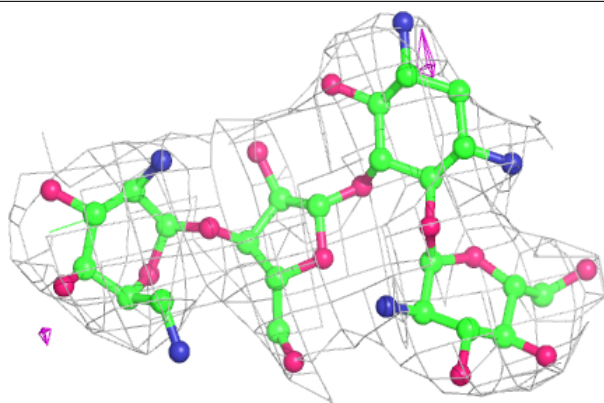
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
55	MG	BA	3145	1/1	0.98	0.36	53,53,53,53	0
55	MG	AA	3549	1/1	0.98	0.54	50,50,50,50	0
55	MG	AA	3579	1/1	0.98	0.29	39,39,39,39	0
55	MG	BA	3138	1/1	0.98	0.30	52,52,52,52	0
55	MG	AA	3455	1/1	0.98	0.46	49,49,49,49	0
55	MG	CA	1603	1/1	0.98	0.20	73,73,73,73	0
55	MG	AA	3030	1/1	0.98	0.31	45,45,45,45	0
55	MG	AA	3139	1/1	0.98	0.29	54,54,54,54	0
55	MG	AA	3203	1/1	0.98	0.47	65,65,65,65	0
55	MG	BA	3482	1/1	0.98	0.19	65,65,65,65	0
55	MG	AA	3016	1/1	0.98	0.31	48,48,48,48	0
55	MG	BA	3010	1/1	0.98	0.24	68,68,68,68	0
55	MG	AA	3327	1/1	0.98	0.52	84,84,84,84	0
55	MG	BA	3286	1/1	0.98	0.24	85,85,85,85	0
55	MG	AA	3017	1/1	0.98	0.47	64,64,64,64	0
55	MG	AA	3436	1/1	0.98	0.46	66,66,66,66	0
55	MG	AA	3003	1/1	0.98	0.48	64,64,64,64	0
55	MG	BA	3134	1/1	0.98	0.28	63,63,63,63	0
55	MG	AA	3125	1/1	0.98	0.42	55,55,55,55	0
55	MG	BA	3241	1/1	0.98	0.36	52,52,52,52	0
55	MG	AA	3004	1/1	0.98	0.39	40,40,40,40	0
55	MG	CA	1634	1/1	0.99	0.32	60,60,60,60	0
55	MG	CA	1641	1/1	0.99	0.23	65,65,65,65	0
55	MG	AA	3007	1/1	0.99	0.28	42,42,42,42	0
55	MG	AA	3035	1/1	0.99	0.30	45,45,45,45	0
57	ZN	CQ	103	1/1	0.99	0.13	144,144,144,144	0
55	MG	BA	3232	1/1	0.99	0.27	55,55,55,55	0
55	MG	BA	3216	1/1	0.99	0.28	56,56,56,56	0
55	MG	AA	3027	1/1	0.99	0.36	45,45,45,45	0
55	MG	BA	3268	1/1	0.99	0.15	59,59,59,59	0
55	MG	AA	3012	1/1	0.99	0.38	40,40,40,40	0
55	MG	DA	1649	1/1	0.99	0.29	93,93,93,93	0
55	MG	DA	1647	1/1	0.99	0.18	71,71,71,71	0
57	ZN	DG	303	1/1	0.99	0.29	134,134,134,134	0
55	MG	BA	3215	1/1	0.99	0.32	66,66,66,66	0
55	MG	AA	3610	1/1	0.99	0.19	46,46,46,46	0
55	MG	AA	3110	1/1	0.99	0.16	40,40,40,40	0
55	MG	BA	3132	1/1	0.99	0.25	54,54,54,54	0

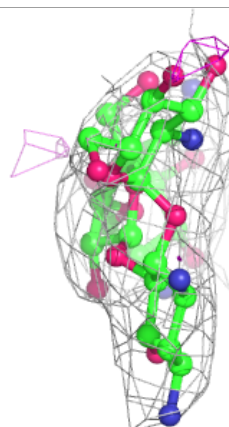
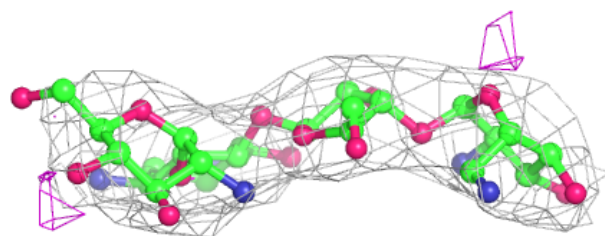
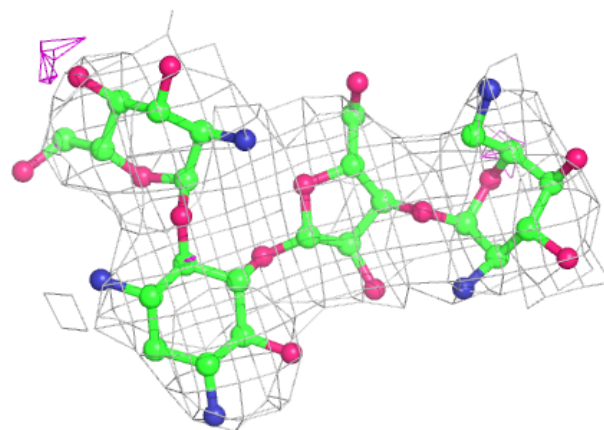
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around PAR DA 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 PAR CA 1841:**

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



6.5 Other polymers

There are no such residues in this entry.