



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 11, 2023 – 08:12 AM EDT

PDB ID : 7LH5
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with plazomicin, mRNA and tRNAs
Authors : Golkar, T.; Berghuis, A.M.; Schmeing, T.M.
Deposited on : 2021-01-21
Resolution : 3.27 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.35.1
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.35.1

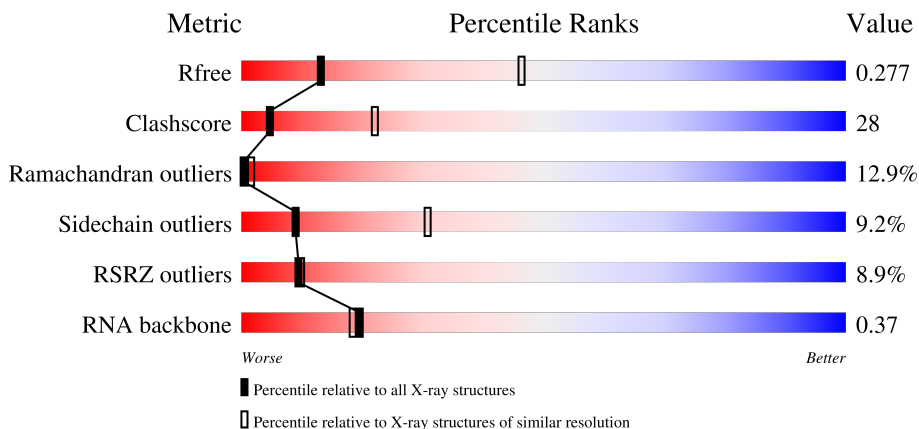
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.27 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	1177 (3.32-3.24)
Clashscore	141614	1044 (3.30-3.26)
Ramachandran outliers	138981	1026 (3.30-3.26)
Sidechain outliers	138945	1025 (3.30-3.26)
RSRZ outliers	127900	1141 (3.32-3.24)
RNA backbone	3102	1091 (3.66-2.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 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	1520	
1	CA	1520	
2	AB	256	
2	CB	256	

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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	3% 47% 43% 9%
16	AP	88	39% 48% 8% 6%
16	CP	88	6% 35% 48% 11% 6%
17	AQ	105	10% 42% 47% 6% 6%
17	CQ	105	38% 31% 51% 11% 6%
18	AR	88	31% 47% 20%
18	CR	88	19% 23% 48% 7% 20%
19	AS	93	20% 17% 53% 14% 16%
19	CS	93	11% 19% 49% 12% 16%
20	AT	106	6% 42% 44% 7% 7%
20	CT	106	14% 36% 45% 10% 7%
21	AU	27	30% 41% 15% 11%
21	CU	27	4% 30% 48% 11% 7%
22	AV	77	34% 30% 22% 13%
22	CV	77	3% 16% 42% 34% 9%
23	AW	76	4% 8% 36% 39% 17%
23	AY	76	5% 11% 5% 75%
23	CW	76	16% 12% 28% 54% 7%
23	CY	76	9% 9% 7% 72%
24	AX	24	8% 29% 8% 50%
24	CX	24	12% 25% 8% 50%
25	B0	85	8% 40% 45% 5% 11%
25	D0	85	8% 44% 44% 9%
26	B1	98	19% 21% 38% 24% 6% 10%
26	D1	98	20% 28% 41% 17% 10%

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Mol	Chain	Length	Quality of chain
27	B2	72	
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2839	
35	DA	2839	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	

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Mol	Chain	Length	Quality of chain
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
43	DI	148	
44	BJ	173	
44	DJ	173	
45	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	

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Mol	Chain	Length	Quality of chain
52	BT	146	
52	DT	146	
53	BU	118	
53	DU	118	
54	BV	101	
54	DV	101	
55	BW	113	
55	DW	113	
56	BX	96	
56	DX	96	
57	BY	110	
57	DY	110	
58	BZ	206	
58	DZ	206	

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
59	MG	AA	1619	-	-	-	X
59	MG	AA	1645	-	-	-	X
59	MG	AA	1660	-	-	-	X
59	MG	AA	1670	-	-	-	X
59	MG	AA	1674	-	-	-	X
59	MG	AA	1676	-	-	-	X
59	MG	AA	1681	-	-	-	X
59	MG	AA	1697	-	-	-	X
59	MG	AA	1743	-	-	-	X
59	MG	AA	1756	-	-	-	X
59	MG	AA	1760	-	-	-	X
59	MG	AA	1770	-	-	-	X
59	MG	AA	1777	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	AA	1804	-	-	-	X
59	MG	AA	1808	-	-	-	X
59	MG	AD	301	-	-	-	X
59	MG	AL	201	-	-	-	X
59	MG	AT	201	-	-	-	X
59	MG	AV	102	-	-	-	X
59	MG	AW	101	-	-	-	X
59	MG	AW	104	-	-	-	X
59	MG	AW	105	-	-	-	X
59	MG	AW	110	-	-	-	X
59	MG	AW	113	-	-	-	X
59	MG	AW	114	-	-	-	X
59	MG	AW	117	-	-	-	X
59	MG	AW	119	-	-	-	X
59	MG	BA	3011	-	-	-	X
59	MG	BA	3014	-	-	-	X
59	MG	BA	3108	-	-	-	X
59	MG	BA	3126	-	-	-	X
59	MG	BA	3132	-	-	-	X
59	MG	BA	3142	-	-	-	X
59	MG	BA	3145	-	-	-	X
59	MG	BA	3186	-	-	-	X
59	MG	BA	3224	-	-	-	X
59	MG	BA	3254	-	-	-	X
59	MG	BA	3257	-	-	-	X
59	MG	BA	3271	-	-	-	X
59	MG	BA	3285	-	-	-	X
59	MG	BA	3302	-	-	-	X
59	MG	BA	3306	-	-	-	X
59	MG	BA	3313	-	-	-	X
59	MG	BA	3344	-	-	-	X
59	MG	BA	3350	-	-	-	X
59	MG	BA	3353	-	-	-	X
59	MG	BA	3357	-	-	-	X
59	MG	BA	3364	-	-	-	X
59	MG	BA	3385	-	-	-	X
59	MG	BA	3389	-	-	-	X
59	MG	BA	3399	-	-	-	X
59	MG	BA	3400	-	-	-	X
59	MG	BA	3405	-	-	-	X
59	MG	BA	3427	-	-	-	X
59	MG	BA	3434	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	BA	3456	-	-	-	X
59	MG	BA	3457	-	-	-	X
59	MG	CA	1602	-	-	-	X
59	MG	CA	1619	-	-	-	X
59	MG	CA	1620	-	-	-	X
59	MG	CA	1627	-	-	-	X
59	MG	CA	1637	-	-	-	X
59	MG	CA	1646	-	-	-	X
59	MG	CA	1649	-	-	-	X
59	MG	CA	1652	-	-	-	X
59	MG	CA	1664	-	-	-	X
59	MG	CA	1674	-	-	-	X
59	MG	CA	1675	-	-	-	X
59	MG	CA	1677	-	-	-	X
59	MG	CA	1690	-	-	-	X
59	MG	CA	1695	-	-	-	X
59	MG	CA	1725	-	-	-	X
59	MG	CA	1742	-	-	-	X
59	MG	CA	1793	-	-	-	X
59	MG	CE	201	-	-	-	X
59	MG	CW	106	-	-	-	X
59	MG	CW	108	-	-	-	X
59	MG	CW	109	-	-	-	X
59	MG	CW	112	-	-	-	X
59	MG	DA	3005	-	-	-	X
59	MG	DA	3007	-	-	-	X
59	MG	DA	3008	-	-	-	X
59	MG	DA	3086	-	-	-	X
59	MG	DA	3105	-	-	-	X
59	MG	DA	3136	-	-	-	X
59	MG	DA	3152	-	-	-	X
59	MG	DA	3163	-	-	-	X
59	MG	DA	3203	-	-	-	X
59	MG	DA	3206	-	-	-	X
59	MG	DA	3224	-	-	-	X
59	MG	DA	3230	-	-	-	X
59	MG	DA	3246	-	-	-	X
59	MG	DA	3256	-	-	-	X
59	MG	DA	3258	-	-	-	X
59	MG	DA	3280	-	-	-	X
59	MG	DA	3307	-	-	-	X
59	MG	DA	3315	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3316	-	-	-	X
59	MG	DA	3320	-	-	-	X
59	MG	DA	3342	-	-	-	X
59	MG	DA	3348	-	-	-	X
59	MG	DA	3356	-	-	-	X
59	MG	DA	3373	-	-	-	X
59	MG	DA	3382	-	-	-	X
59	MG	DB	207	-	-	-	X
59	MG	DB	211	-	-	-	X
59	MG	DO	202	-	-	-	X
59	MG	DV	201	-	-	-	X

2 Entry composition

There are 62 unique types of molecules in this entry. The entry contains 296449 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0
1	CA	1504	Total 32332	C 14390	N 5992	O 10446	P 1504	0	0	0

- Molecule 2 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AB	218	Total 1784	C 1139	N 321	O 319	S 5	0	0	0
2	CB	234	Total 1900	C 1213	N 341	O 341	S 5	0	0	0

- Molecule 3 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	206	Total 1612	C 1016	N 314	O 281	S 1	0	0	0
3	CC	207	Total 1620	C 1021	N 315	O 282	S 2	0	0	0

- Molecule 4 is a protein called 30S ribosomal protein S4.

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

- Molecule 5 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	150	Total	C	N	O	S	0	0	0
			1146	724	217	201	4			
5	CE	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 6 is a protein called 30S ribosomal protein S6.

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

- Molecule 7 is a protein called 30S ribosomal protein S7.

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

- Molecule 8 is a protein called 30S ribosomal protein S8.

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

- Molecule 9 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	121	Total	C	N	O	0	0	0
			947	599	186	162			
9	CI	127	Total	C	N	O	0	0	0
			1010	639	197	174			

- Molecule 10 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	98	Total	C	N	O	S	0	0	0
			794	499	156	138	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	CJ	98	794	499	156	138	1	0	0	0

- Molecule 11 is a protein called 30S ribosomal protein S11.

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

- Molecule 12 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	AL	122	956	603	193	159	1	0	0	0
12	CL	124	970	611	195	163	1	0	0	0

- Molecule 13 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AM	116	922	570	189	161	2	0	0	0
13	CM	119	946	585	195	164	2	0	0	0

- Molecule 14 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	AN	60	491	312	104	71	4	0	0	0
14	CN	60	492	312	104	72	4	0	0	0

- Molecule 15 is a protein called 30S ribosomal protein S15.

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

- Molecule 16 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
16	CP	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 17 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
17	CQ	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 18 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
18	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 19 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	78	Total	C	N	O	S	0	0	0
			629	403	114	110	2			
19	CS	78	Total	C	N	O	S	0	0	0
			629	403	114	110	2			

- Molecule 20 is a protein called 30S ribosomal protein S20.

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

- Molecule 21 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	24	Total	C	N	O	0	0	0
			208	128	50	30			
21	CU	25	Total	C	N	O	0	0	0
			217	134	52	31			

- Molecule 22 is a RNA chain called P-site tRNA fMet.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	76	Total	C	N	O	P	0	0	0
			1622	723	294	529	76			
22	CV	77	Total	C	N	O	P	0	0	0
			1643	732	297	537	77			

- Molecule 23 is a RNA chain called E-Site tRNA Phe and A-site tRNA Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
23	AY	19	Total	C	N	O	P	0	0	0
			410	183	78	130	19			
23	CW	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
23	CY	21	Total	C	N	O	P	0	0	0
			453	202	86	144	21			

- Molecule 24 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	12	Total	C	N	O	P	0	0	0
			255	115	46	82	12			
24	CX	12	Total	C	N	O	P	0	0	0
			255	115	46	82	12			

- Molecule 25 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	76	Total	C	N	O	S	0	0	0
			607	376	128	102	1			
25	D0	82	Total	C	N	O	S	0	0	0
			645	401	136	107	1			

- Molecule 26 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B1	88	Total	C	N	O	0	0	0
			692	435	139	118			
26	D1	88	Total	C	N	O	0	0	0
			692	435	139	118			

- Molecule 27 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B2	50	Total	C	N	O	S	0	0	0
			420	263	84	72	1			
27	D2	53	Total	C	N	O	S	0	0	0
			446	279	88	78	1			

- Molecule 28 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B3	58	Total	C	N	O		0	0	0
			459	293	89	77				
28	D3	60	Total	C	N	O	S	0	0	0
			476	303	91	81	1			

- Molecule 29 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
29	B4	45	Total	C	N	O	0	0	0
			222	132	45	45			
29	D4	49	Total	C	N	O	0	0	0
			241	143	49	49			

- Molecule 30 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	54	Total	C	N	O	S	0	0	0
			418	261	84	68	5			
30	D5	60	Total	C	N	O	S	0	0	0
			467	293	91	77	6			

- Molecule 31 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	46	Total	C	N	O	S	0	0	0
			398	247	81	66	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D6	47	Total	C	N	O	S	0	0	0
			408	253	84	67	4			

- Molecule 32 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
32	D7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 33 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B8	63	Total	C	N	O	S	0	0	0
			507	326	101	78	2			
33	D8	62	Total	C	N	O	S	0	0	0
			495	317	100	76	2			

- Molecule 34 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
34	D9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 35 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2824	Total	C	N	O	P	0	0	0
			60821	27070	11372	19556	2823			
35	DA	2824	Total	C	N	O	P	0	0	0
			60821	27070	11372	19556	2823			

- Molecule 36 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BB	120	Total	C	N	O	P	0	0	0
			2576	1146	476	834	120			
36	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 37 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
37	BC	190	Total	C	N	O	0	0	0
			1141	691	220	230			
37	DC	190	Total	C	N	O	0	0	0
			1141	691	220	230			

- Molecule 38 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
38	BD	273	Total	C	N	O	S	0	0	0
			2126	1341	424	358	3			
38	DD	275	Total	C	N	O	S	0	0	0
			2144	1353	428	360	3			

- Molecule 39 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
			Total	C	N	O				
39	BE	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			
39	DE	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

- Molecule 40 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
40	BF	206	Total	C	N	O	S	0	0	0
			1615	1030	302	281	2			
40	DF	208	Total	C	N	O	S	0	0	0
			1627	1037	304	283	3			

- Molecule 41 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
			Total	C	N	O				
41	BG	178	Total	C	N	O	S	0	0	0
			1449	925	264	256	4			
41	DG	181	Total	C	N	O	S	0	0	0
			1474	942	268	260	4			

- Molecule 42 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BH	159	Total	C	N	O	S	0	0	0
			1222	773	228	220	1			
42	DH	165	Total	C	N	O	S	0	0	0
			1270	806	237	226	1			

- Molecule 43 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BI	145	Total	C	N	O	S	0	0	0
			1131	723	200	207	1			
43	DI	144	Total	C	N	O	S	0	0	0
			1124	718	199	206	1			

- Molecule 44 is a protein called 50S ribosomal protein L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BJ	130	Total	C	N	O	0	0	0
			651	391	130	130			
44	DJ	130	Total	C	N	O	0	0	0
			651	391	130	130			

- Molecule 45 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	BK	140	Total	C	N	O	0	0	0
			700	420	140	140			
45	DK	140	Total	C	N	O	0	0	0
			700	420	140	140			

- Molecule 46 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BN	137	Total	C	N	O	S	0	0	0
			1096	707	205	181	3			
46	DN	140	Total	C	N	O	S	0	0	0
			1120	722	208	186	4			

- Molecule 47 is a protein called 50S ribosomal protein L14.

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

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

- Molecule 48 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	BP	144	Total	C	N	O	S	0	0	0
			1099	684	225	188	2			
48	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 49 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BQ	135	Total	C	N	O	S	0	0	0
			1074	686	205	178	5			
49	DQ	136	Total	C	N	O	S	0	0	0
			1083	691	206	181	5			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	BR	116	Total	C	N	O	0	0	0
			949	593	198	158			
50	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 51 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
51	BS	102	Total	C	N	O	0	0	0
			813	512	164	137			
51	DS	99	Total	C	N	O	0	0	0
			781	492	158	131			

- Molecule 52 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			
52	DT	137	Total	C	N	O	S	0	0	0
			1141	710	234	196	1			

- Molecule 53 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
53	BU	117	Total 964	C 610	N 202	O 151	S 1	0	0	0
53	DU	117	Total 964	C 610	N 202	O 151	S 1	0	0	0

- Molecule 54 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
54	BV	101	Total 779	C 501	N 142	O 135	S 1	0	0	0
54	DV	101	Total 779	C 501	N 142	O 135	S 1	0	0	0

- Molecule 55 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
55	BW	111	Total 886	C 558	N 174	O 152	S 2	0	0	0
55	DW	111	Total 886	C 558	N 174	O 152	S 2	0	0	0

- Molecule 56 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
56	BX	89	Total 704	C 458	N 128	O 118		0	0	0
56	DX	94	Total 742	C 482	N 134	O 125	S 1	0	0	0

- Molecule 57 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
57	BY	100	Total 775	C 500	N 148	O 123	S 4	0	0	0
57	DY	109	Total 835	C 534	N 157	O 139	S 5	0	0	0

- Molecule 58 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	176	Total	C	N	O	S	0	0	0
			1403	897	252	252	2			
58	DZ	176	Total	C	N	O	S	0	0	0
			1403	897	252	252	2			

- Molecule 59 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	AA	209	Total	Mg	0	0
			209	209		
59	AC	1	Total	Mg	0	0
			1	1		
59	AD	1	Total	Mg	0	0
			1	1		
59	AE	1	Total	Mg	0	0
			1	1		
59	AL	1	Total	Mg	0	0
			1	1		
59	AT	1	Total	Mg	0	0
			1	1		
59	AV	7	Total	Mg	0	0
			7	7		
59	AW	20	Total	Mg	0	0
			20	20		
59	AX	3	Total	Mg	0	0
			3	3		
59	B0	1	Total	Mg	0	0
			1	1		
59	B1	2	Total	Mg	0	0
			2	2		
59	B2	1	Total	Mg	0	0
			1	1		
59	B5	1	Total	Mg	0	0
			1	1		
59	B7	1	Total	Mg	0	0
			1	1		
59	B8	2	Total	Mg	0	0
			2	2		
59	BA	457	Total	Mg	0	0
			457	457		
59	BB	17	Total	Mg	0	0
			17	17		
59	BC	2	Total	Mg	0	0
			2	2		

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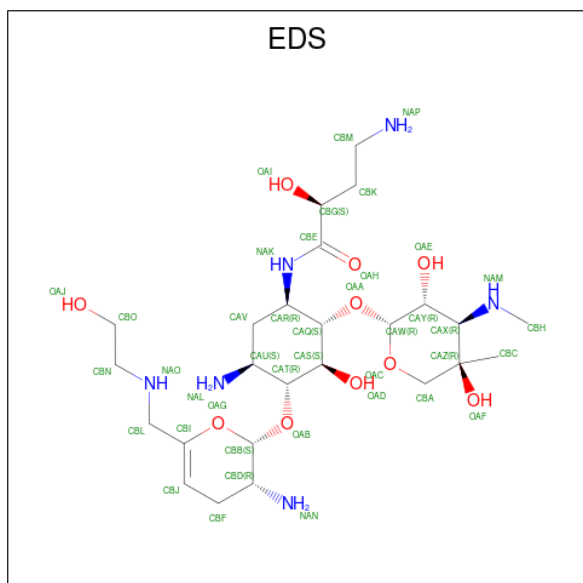
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	BE	2	Total 2	Mg 2	0	0
59	BF	3	Total 3	Mg 3	0	0
59	BQ	1	Total 1	Mg 1	0	0
59	BS	1	Total 1	Mg 1	0	0
59	BU	5	Total 5	Mg 5	0	0
59	BV	1	Total 1	Mg 1	0	0
59	BX	2	Total 2	Mg 2	0	0
59	CA	195	Total 195	Mg 195	0	0
59	CE	1	Total 1	Mg 1	0	0
59	CF	1	Total 1	Mg 1	0	0
59	CG	1	Total 1	Mg 1	0	0
59	CI	1	Total 1	Mg 1	0	0
59	CU	1	Total 1	Mg 1	0	0
59	CV	4	Total 4	Mg 4	0	0
59	CW	13	Total 13	Mg 13	0	0
59	CX	2	Total 2	Mg 2	0	0
59	D2	2	Total 2	Mg 2	0	0
59	D5	1	Total 1	Mg 1	0	0
59	DA	392	Total 392	Mg 392	0	0
59	DB	12	Total 12	Mg 12	0	0
59	DE	1	Total 1	Mg 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	DF	2	Total Mg 2 2	0	0
59	DN	1	Total Mg 1 1	0	0
59	DO	2	Total Mg 2 2	0	0
59	DV	1	Total Mg 1 1	0	0

- Molecule 60 is (2S)-4-amino-N-[(1R,2S,3S,4R,5S)-5-amino-4-{{[(2S,3R)-3-amino-6-{{[(2-hydroxyethyl)amino]methyl}-3,4-dihydro-2H-pyran-2-yl]oxy}-2-{{[3-deoxy-4-C-methyl-3-(methylamino)-beta-L-arabinopyranosyl]oxy}-3-hydroxycyclohexyl]-2-hydroxybutanamide (three-letter code: EDS) (formula: C₂₅H₄₈N₆O₁₀).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
60	AA	1	Total C N O 41 25 6 10	0	0
60	CA	1	Total C N O 41 25 6 10	0	0

- Molecule 61 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	AD	1	Total Zn 1 1	0	0
61	AN	1	Total Zn 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	B9	1	Total 1	Zn 1	0	0
61	CD	1	Total 1	Zn 1	0	0
61	CN	1	Total 1	Zn 1	0	0
61	D9	1	Total 1	Zn 1	0	0

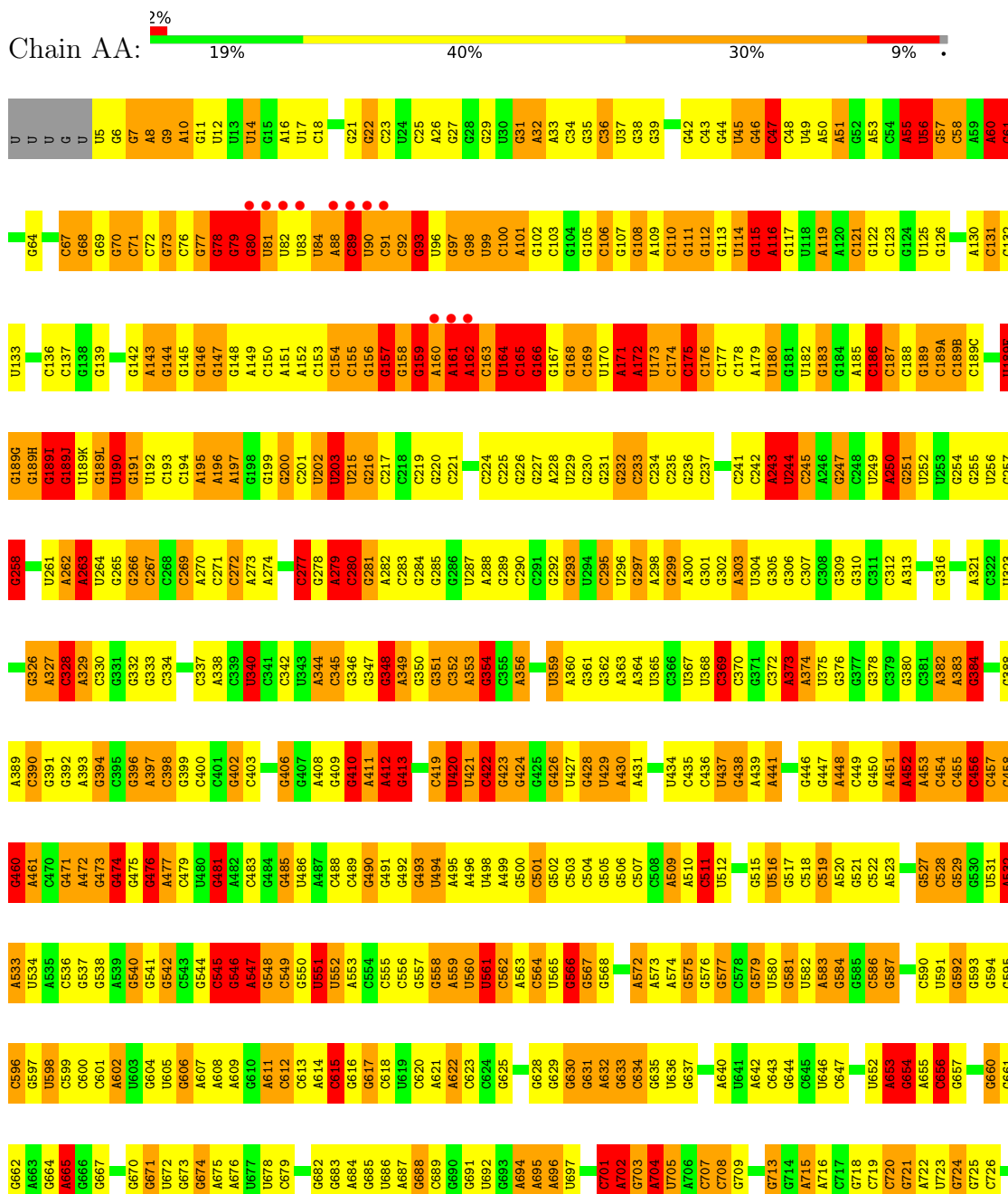
- Molecule 62 is water.

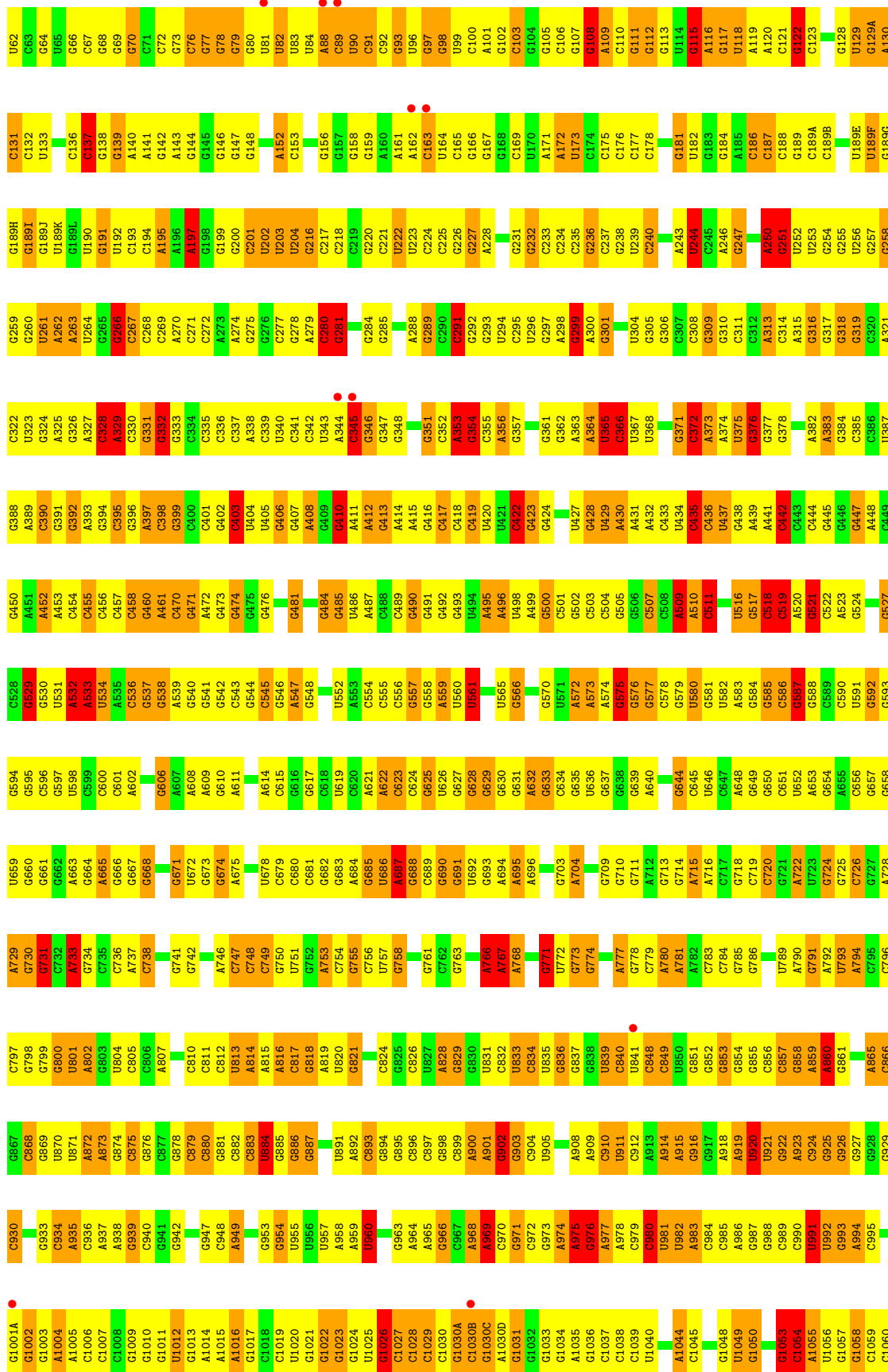
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
62	AA	2	Total 2	O 2	0	0

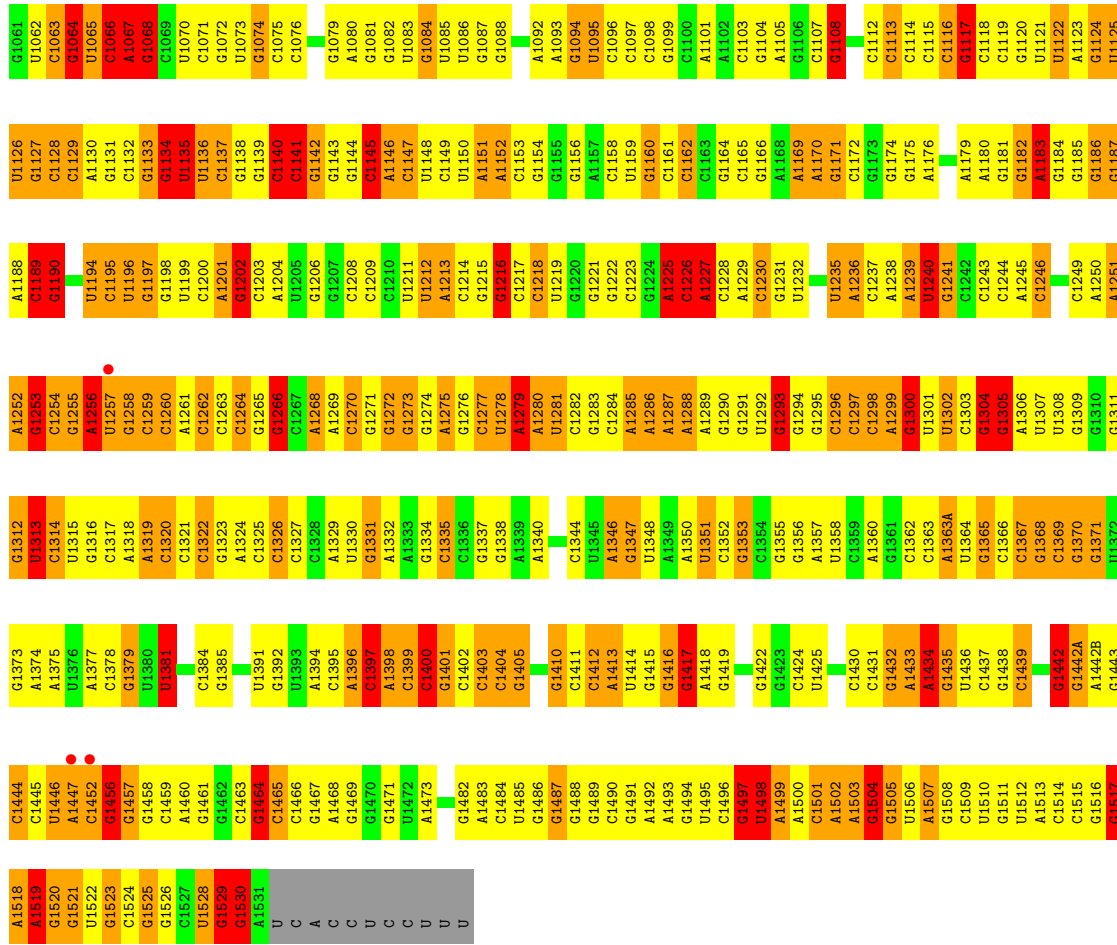
3 Residue-property plots

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

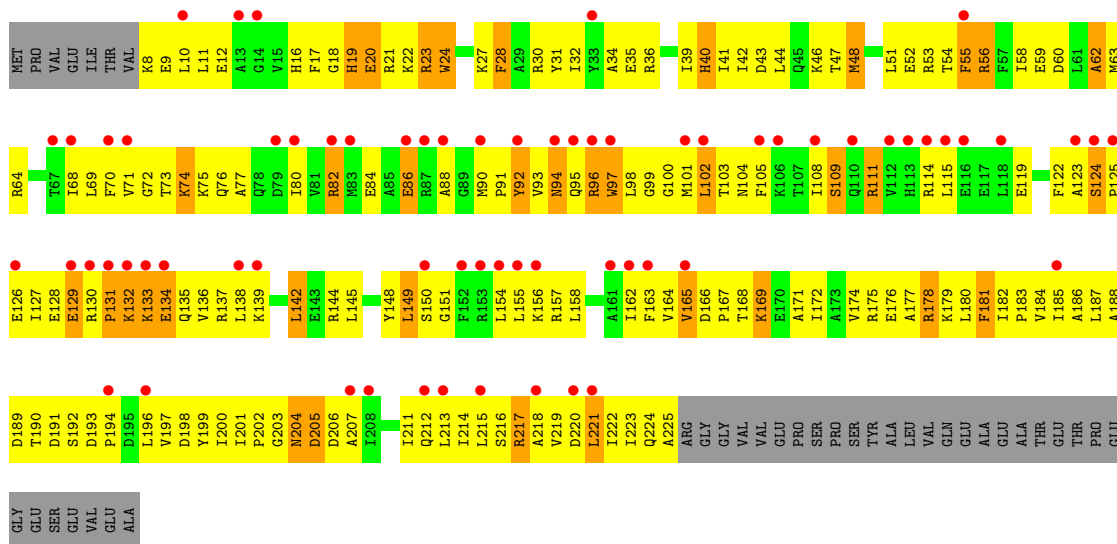
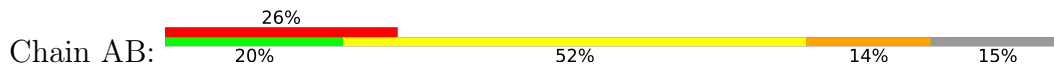
- Molecule 1: 16S ribosomal RNA



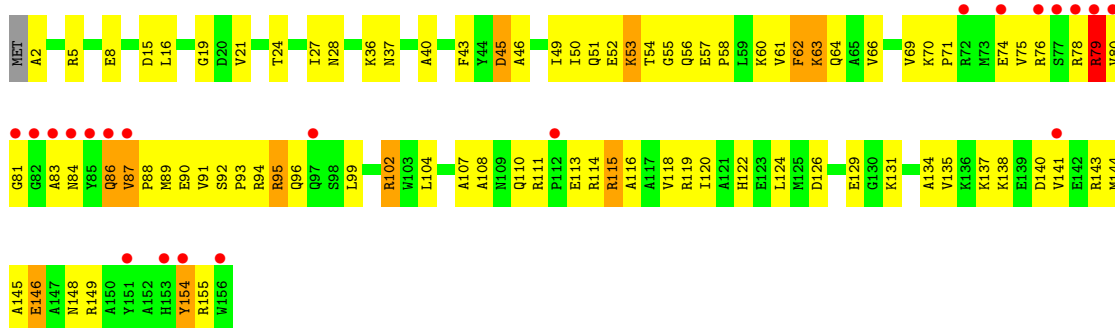




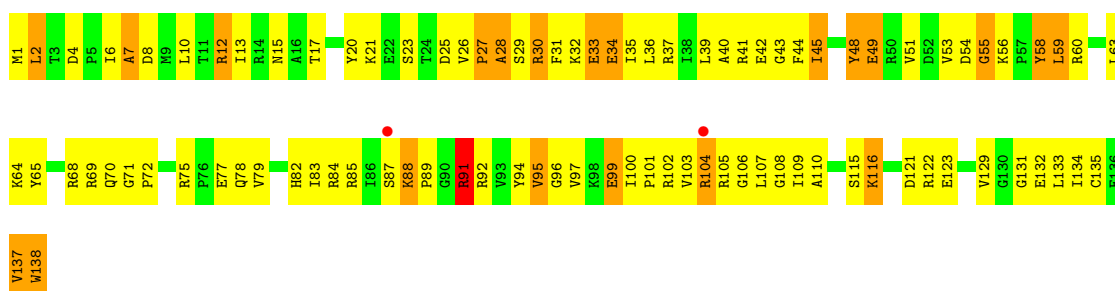
• Molecule 2: 30S ribosomal protein S2



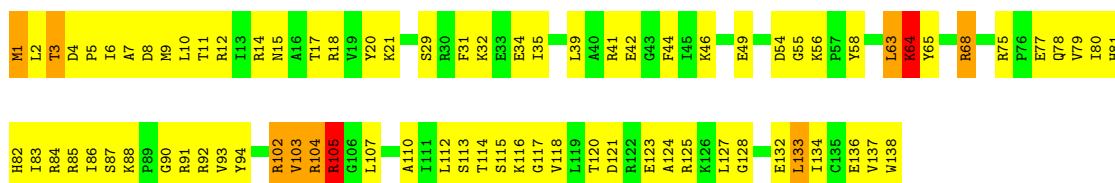
• Molecule 2: 30S ribosomal protein S2



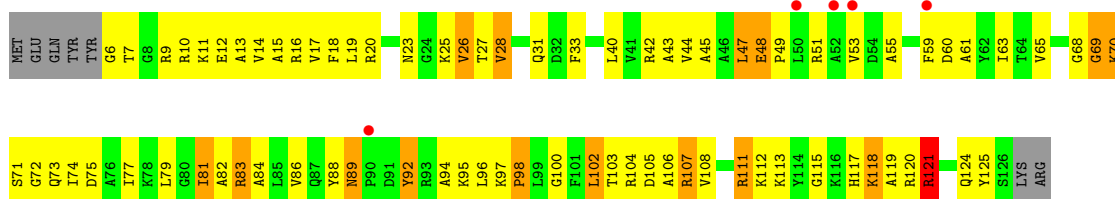
• Molecule 8: 30S ribosomal protein S8



• Molecule 8: 30S ribosomal protein S8

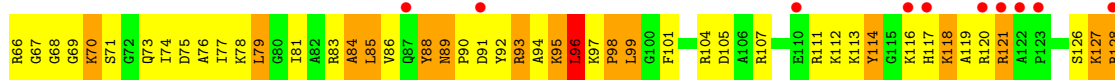


• Molecule 9: 30S ribosomal protein S9

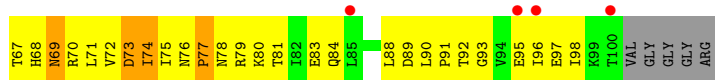


• Molecule 9: 30S ribosomal protein S9

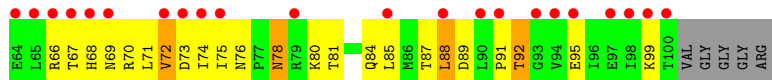
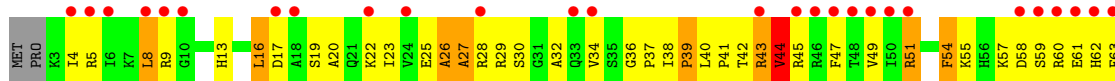




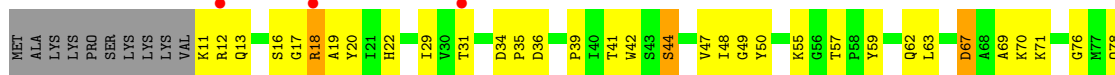
• Molecule 10: 30S ribosomal protein S10



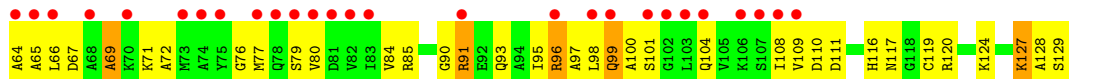
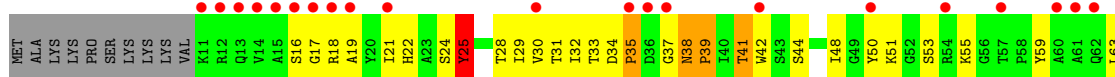
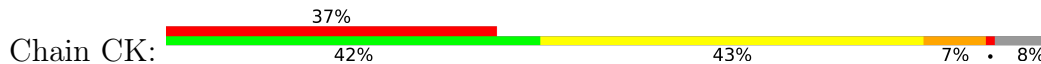
• Molecule 10: 30S ribosomal protein S10



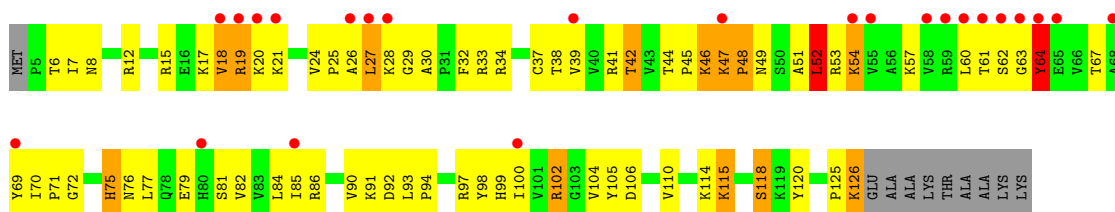
• Molecule 11: 30S ribosomal protein S11



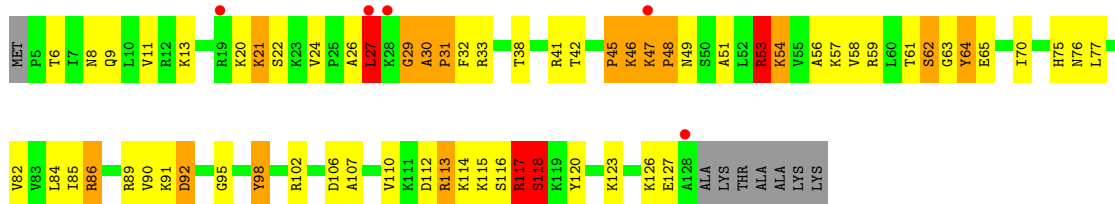
• Molecule 11: 30S ribosomal protein S11



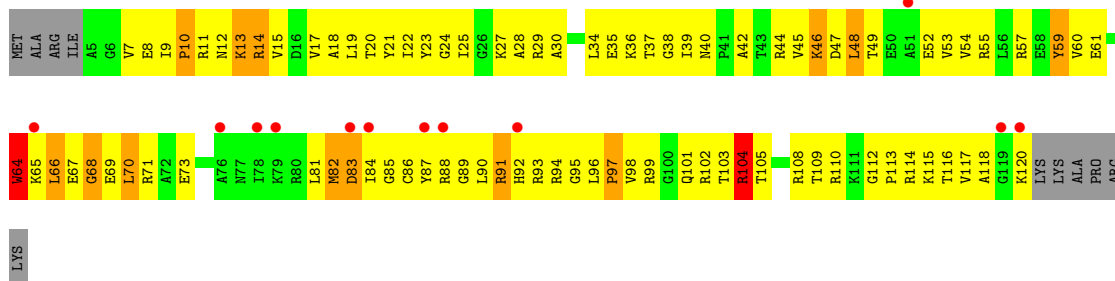
- Molecule 12: 30S ribosomal protein S12



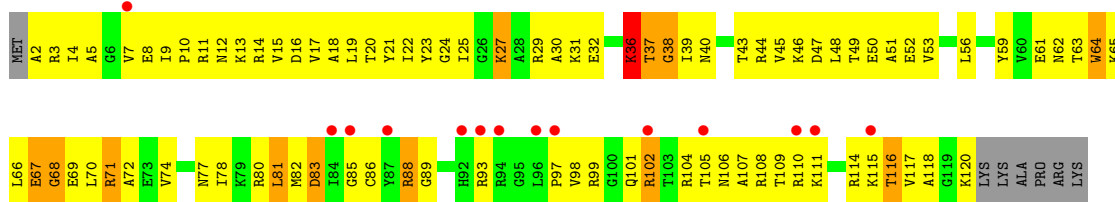
- Molecule 12: 30S ribosomal protein S12



- Molecule 13: 30S ribosomal protein S13

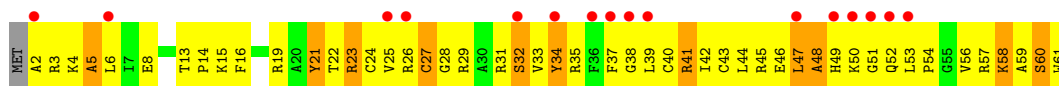


- Molecule 13: 30S ribosomal protein S13

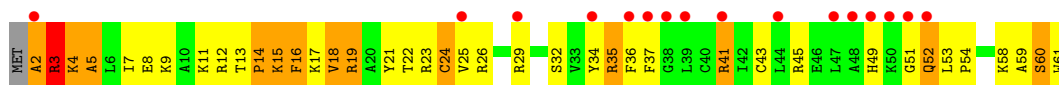


- Molecule 14: 30S ribosomal protein S14 type Z





• Molecule 14: 30S ribosomal protein S14 type Z



• Molecule 15: 30S ribosomal protein S15



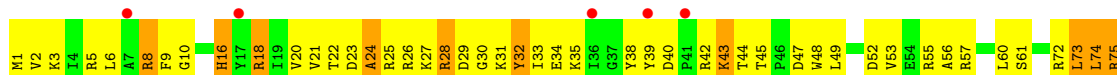
• Molecule 15: 30S ribosomal protein S15



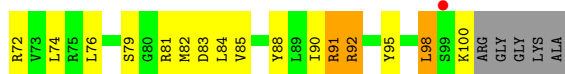
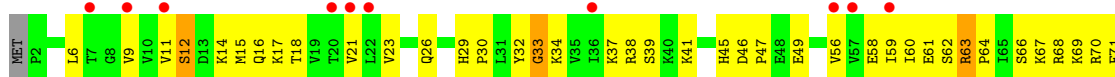
• Molecule 16: 30S ribosomal protein S16



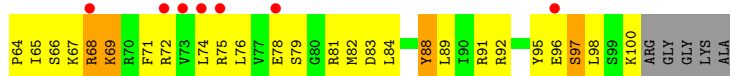
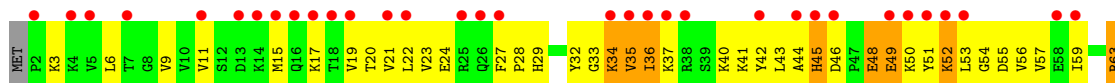
• Molecule 16: 30S ribosomal protein S16



- Molecule 17: 30S ribosomal protein S17



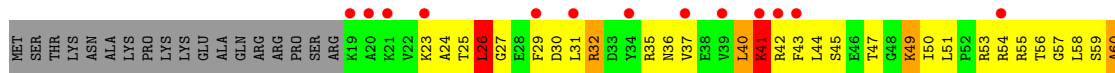
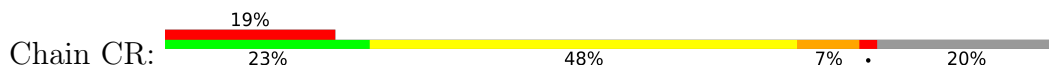
- Molecule 17: 30S ribosomal protein S17



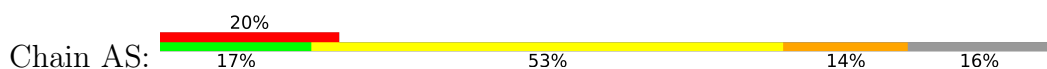
- Molecule 18: 30S ribosomal protein S18

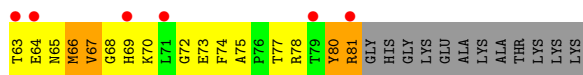


- Molecule 18: 30S ribosomal protein S18

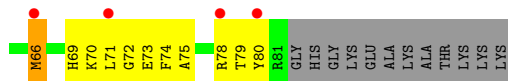
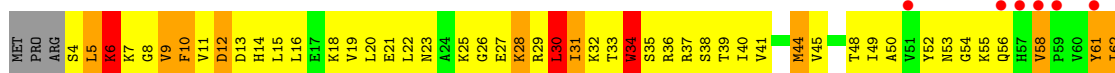
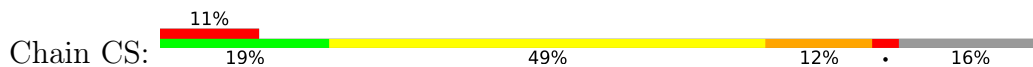


- Molecule 19: 30S ribosomal protein S19

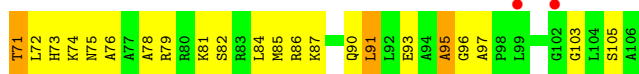
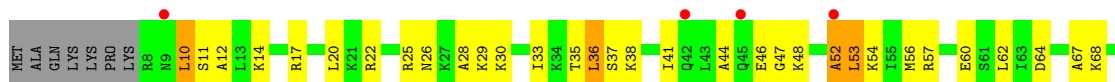




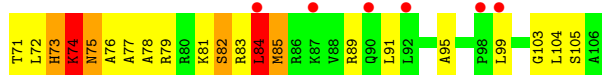
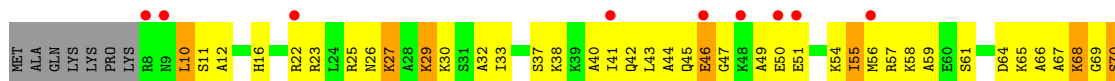
• Molecule 19: 30S ribosomal protein S19



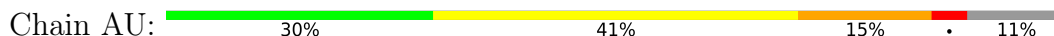
• Molecule 20: 30S ribosomal protein S20



• Molecule 20: 30S ribosomal protein S20



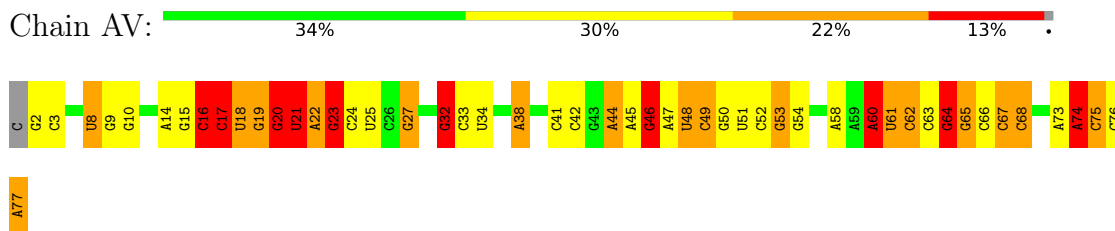
• Molecule 21: 30S ribosomal protein Thx



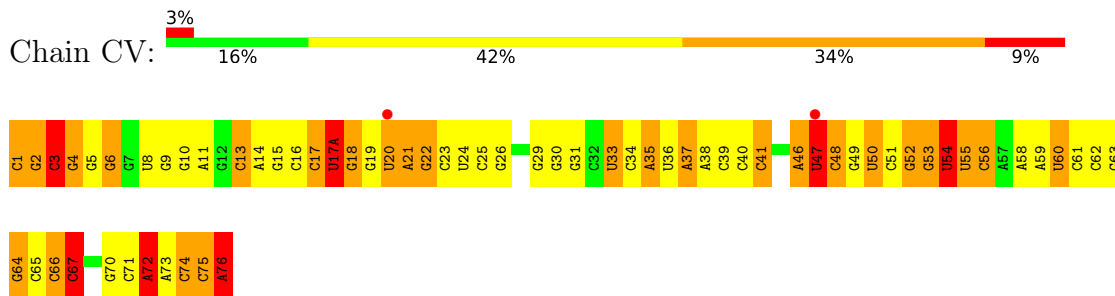
• Molecule 21: 30S ribosomal protein Thx



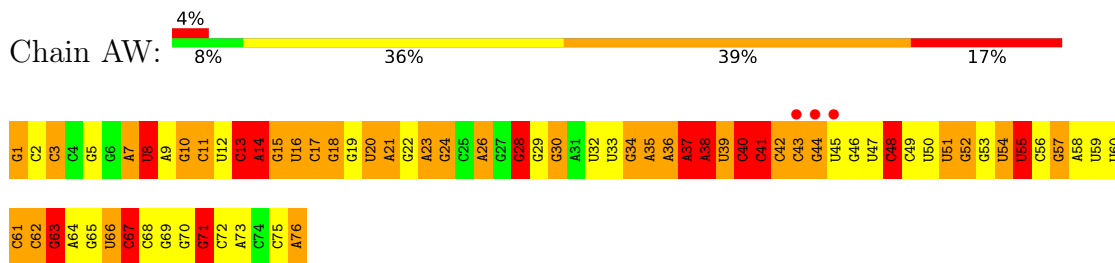
- Molecule 22: P-site tRNA fMet



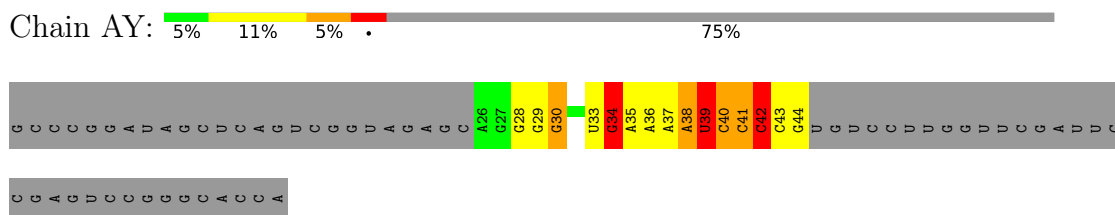
- Molecule 22: P-site tRNA fMet



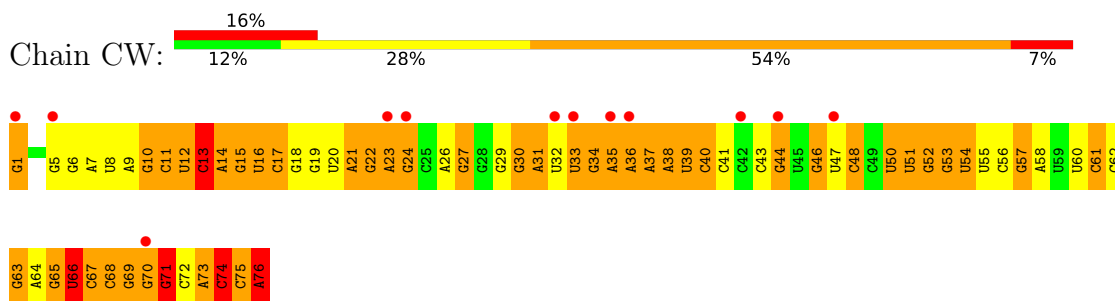
- Molecule 23: E-Site tRNA Phe and A-site tRNA Phe



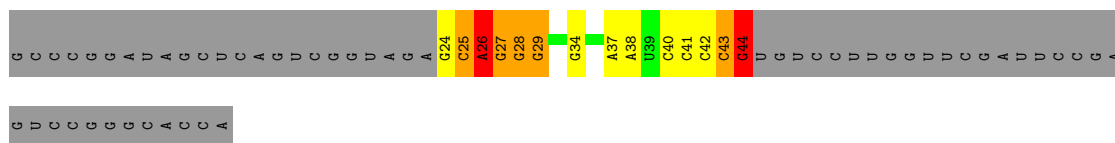
- Molecule 23: E-Site tRNA Phe and A-site tRNA Phe



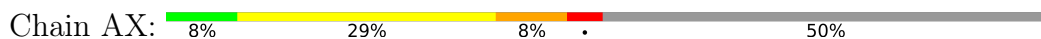
- Molecule 23: E-Site tRNA Phe and A-site tRNA Phe



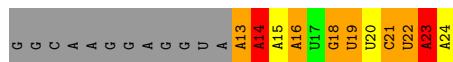
- Molecule 23: E-Site tRNA Phe and A-site tRNA Phe



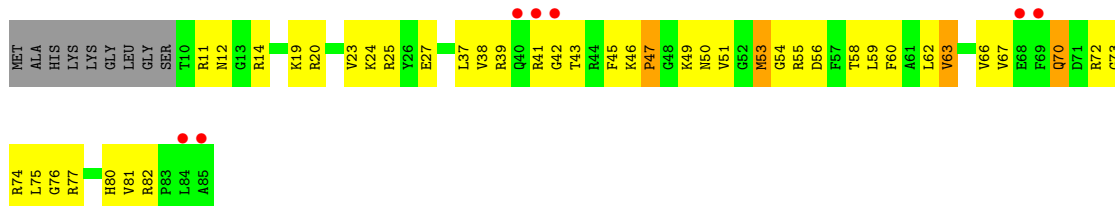
• Molecule 24: mRNA



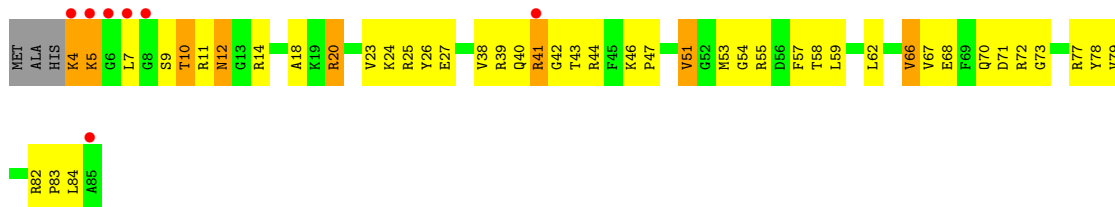
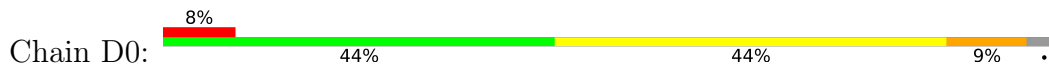
• Molecule 24: mRNA



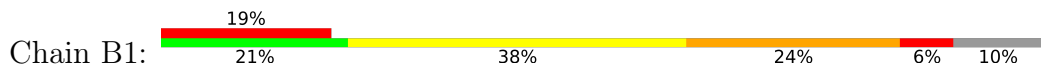
• Molecule 25: 50S ribosomal protein L27

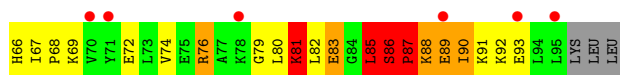


• Molecule 25: 50S ribosomal protein L27

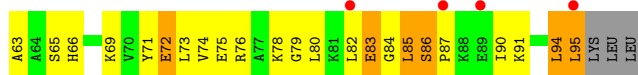
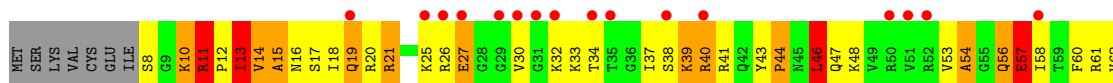
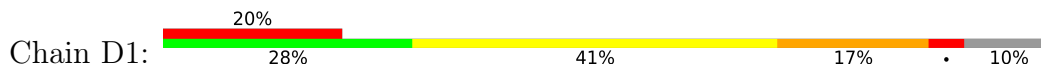


• Molecule 26: 50S ribosomal protein L28

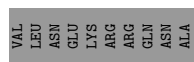
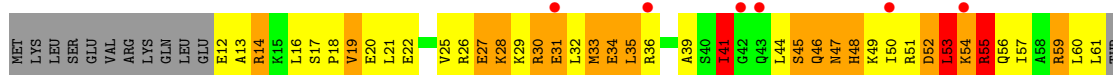




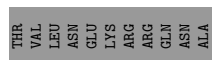
- Molecule 26: 50S ribosomal protein L28



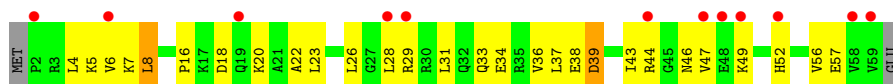
- Molecule 27: 50S ribosomal protein L29



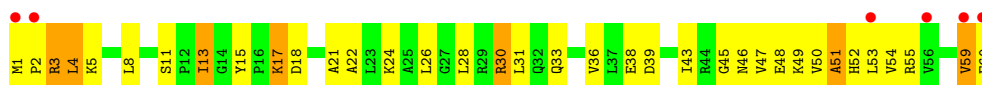
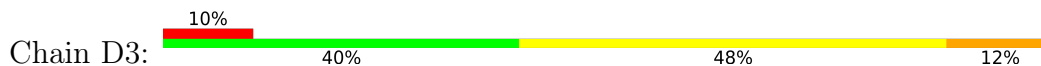
- Molecule 27: 50S ribosomal protein L29



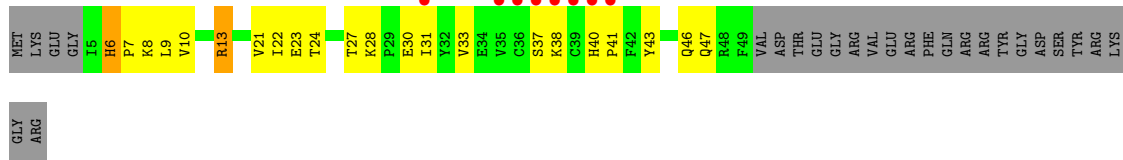
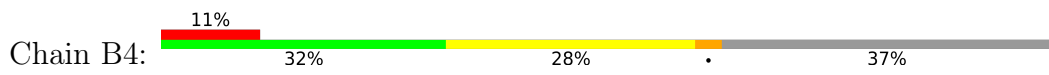
- Molecule 28: 50S ribosomal protein L30



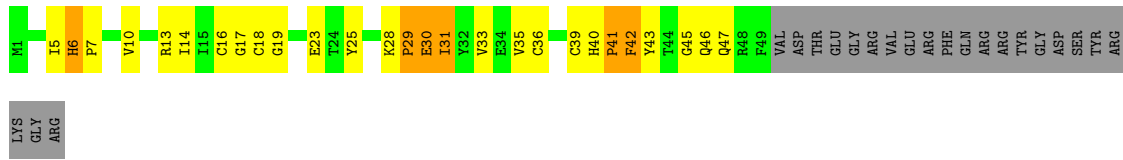
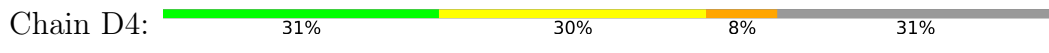
- Molecule 28: 50S ribosomal protein L30



- Molecule 29: 50S ribosomal protein L31



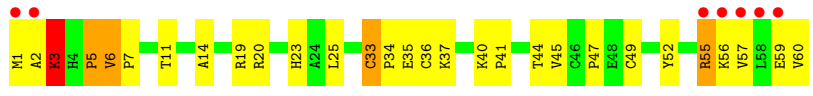
• Molecule 29: 50S ribosomal protein L31



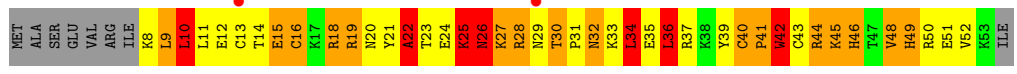
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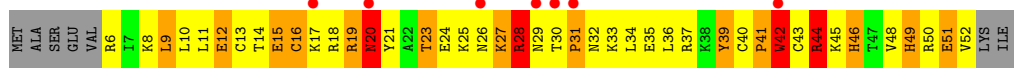
• Molecule 30: 50S ribosomal protein L32



• Molecule 31: 50S ribosomal protein L33

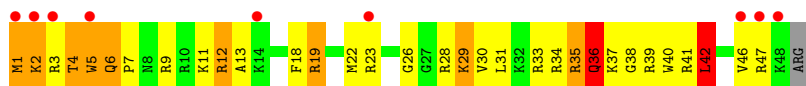


• Molecule 31: 50S ribosomal protein L33

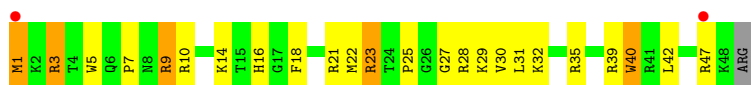


• Molecule 32: 50S ribosomal protein L34

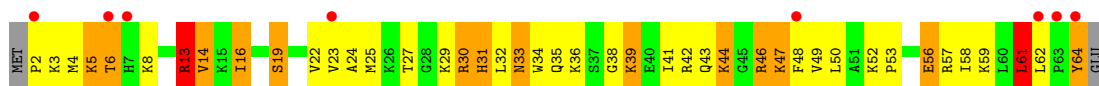




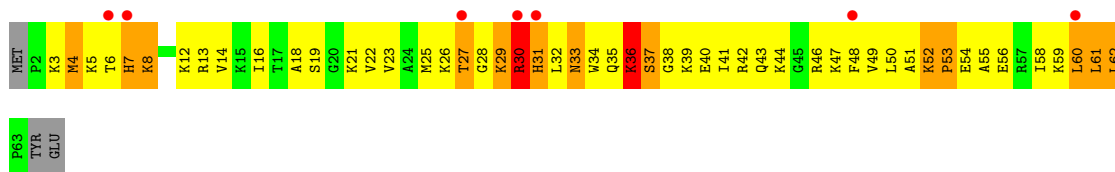
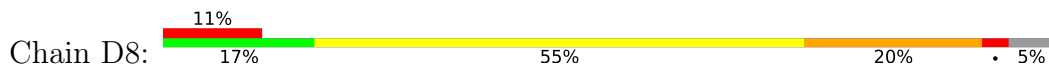
• Molecule 32: 50S ribosomal protein L34



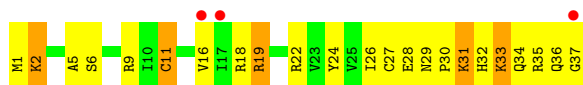
• Molecule 33: 50S ribosomal protein L35



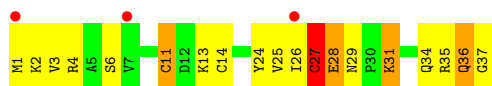
• Molecule 33: 50S ribosomal protein L35



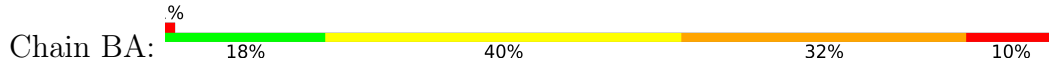
• Molecule 34: 50S ribosomal protein L36



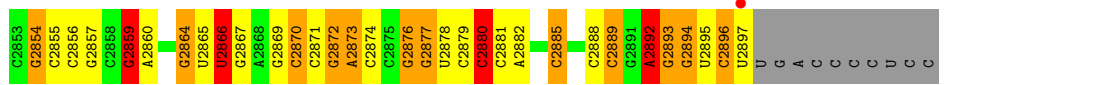
• Molecule 34: 50S ribosomal protein L36



• Molecule 35: 23S ribosomal RNA

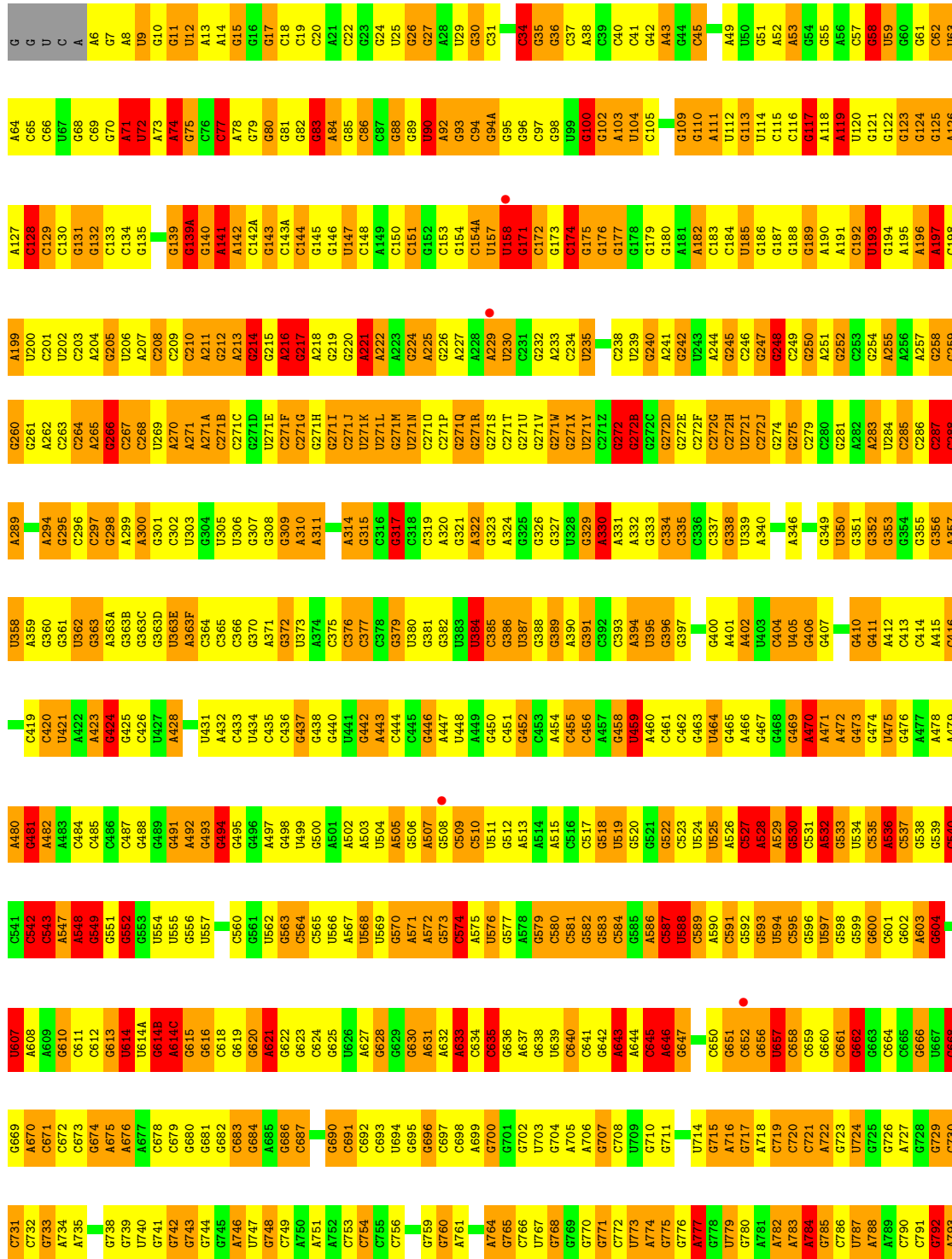


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C2791	G2729	G2670	G2608	U2547	G2486	C2424	C2295	U2233	U2068	C1942
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G2807	C2742	C2683	U2621	C2560	C2499	U2437	A2310	A2247	G2018	U1955
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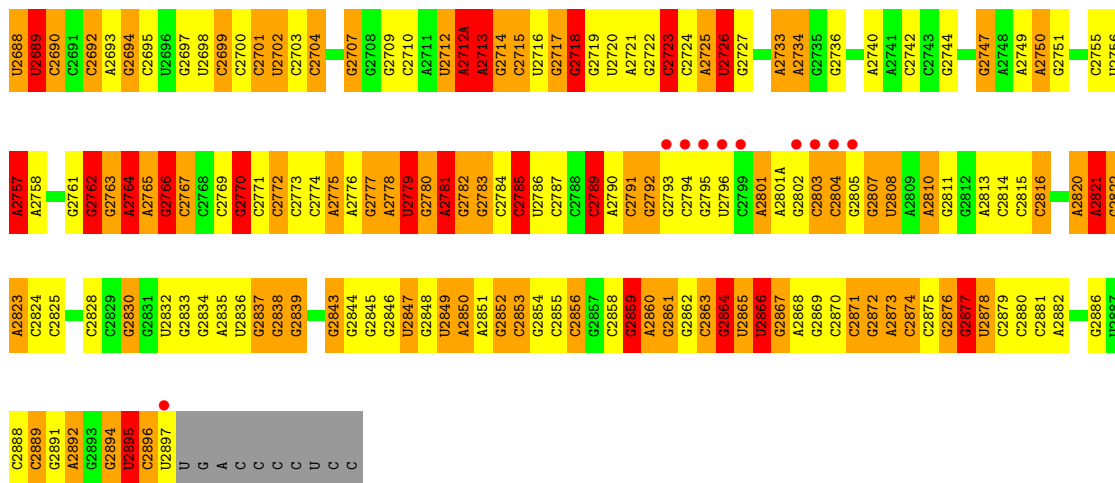


● Molecule 35: 23S ribosomal RNA

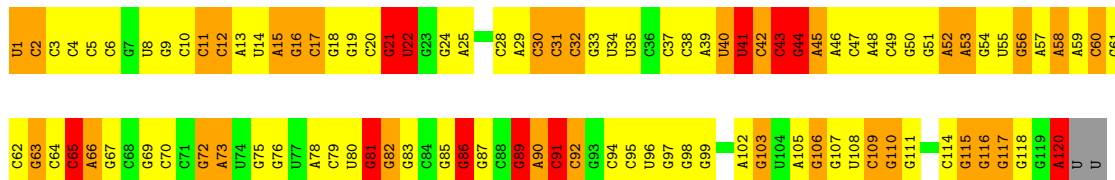
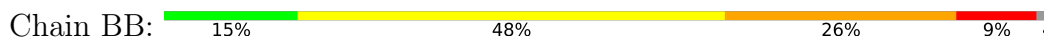
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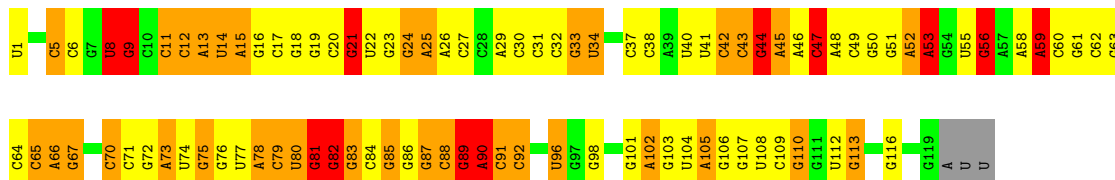
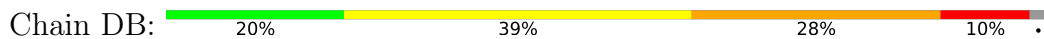
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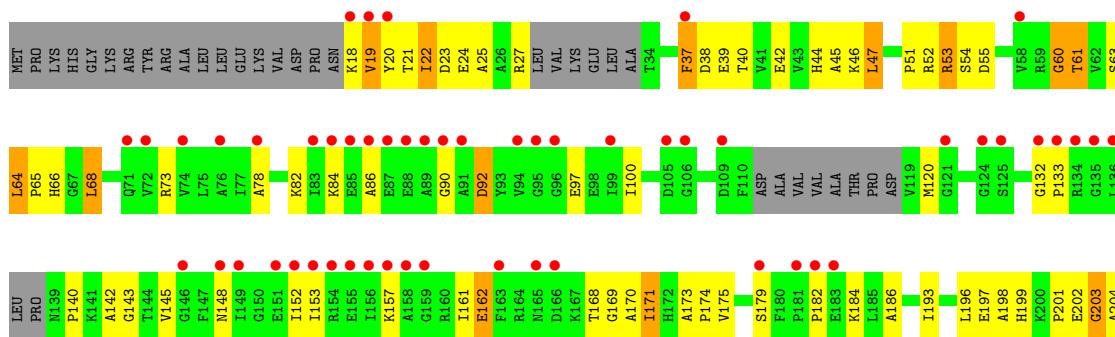
• Molecule 36: 5S ribosomal RNA

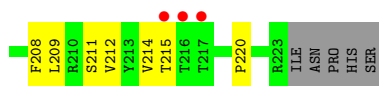


• Molecule 36: 5S ribosomal RNA

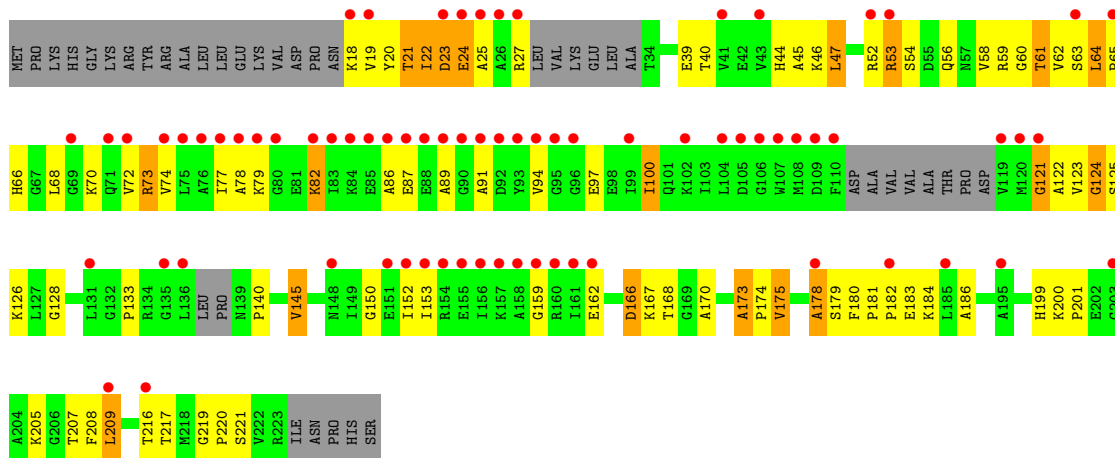


• Molecule 37: 50S ribosomal protein L1

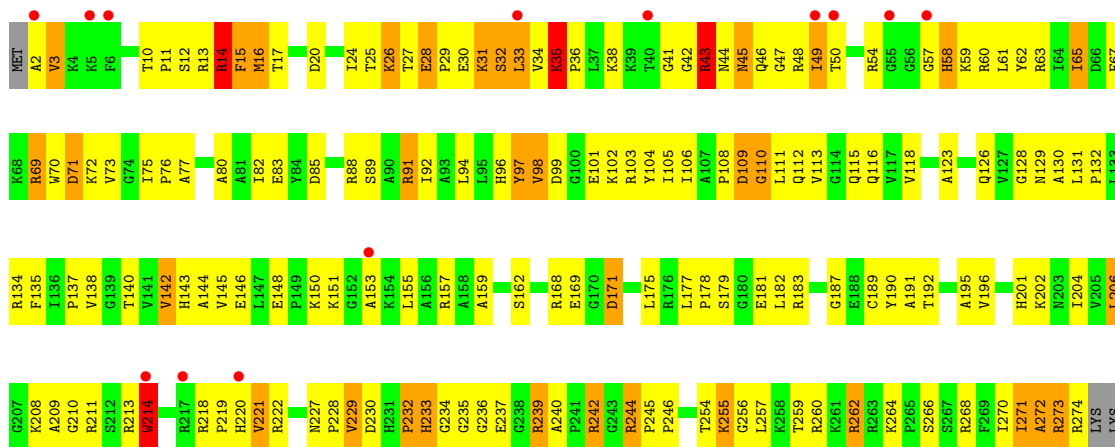




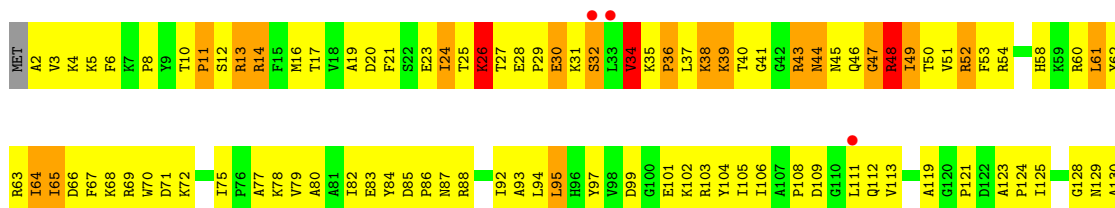
- Molecule 37: 50S ribosomal protein L1

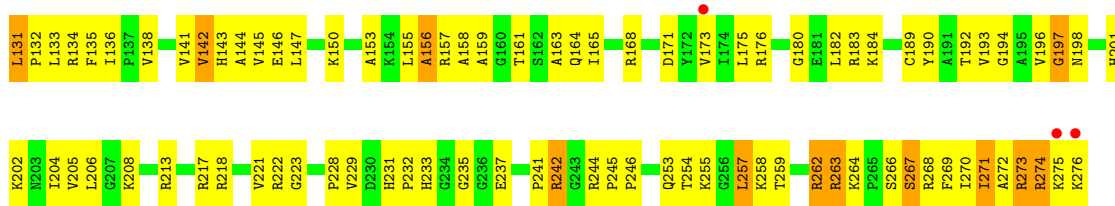


- Molecule 38: 50S ribosomal protein L2

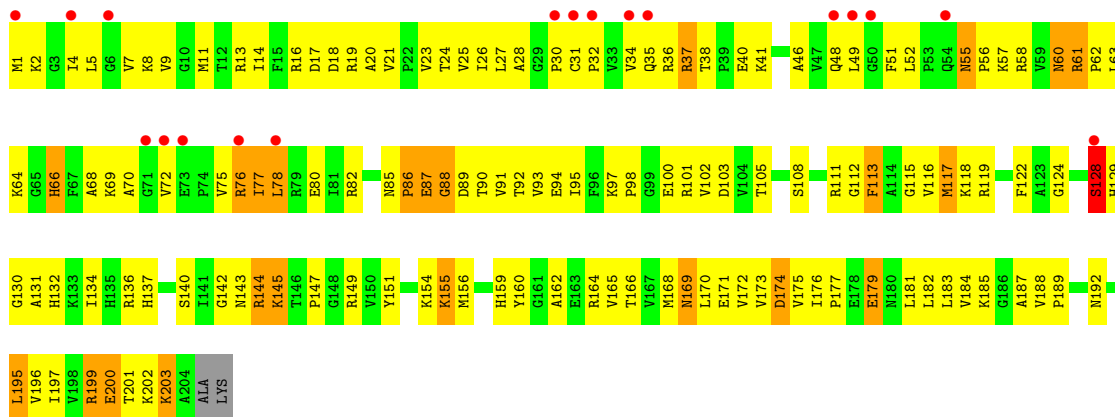


- Molecule 38: 50S ribosomal protein L2

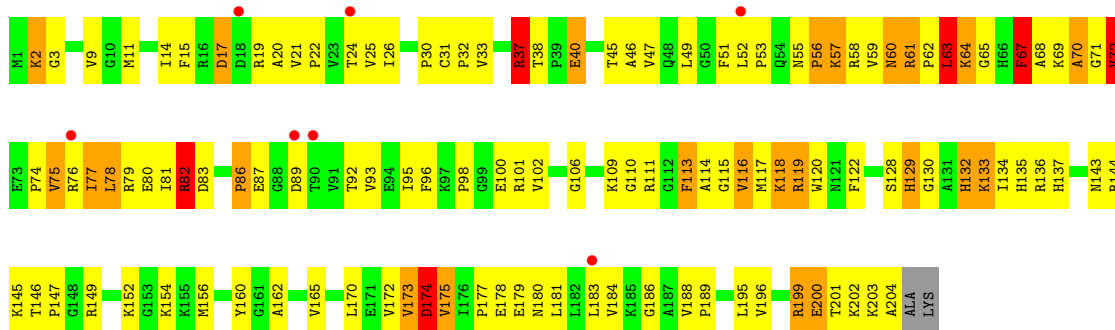




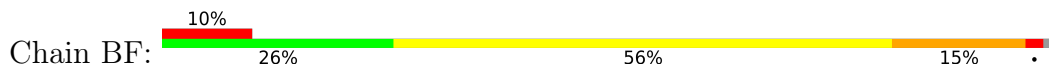
● Molecule 39: 50S ribosomal protein L3

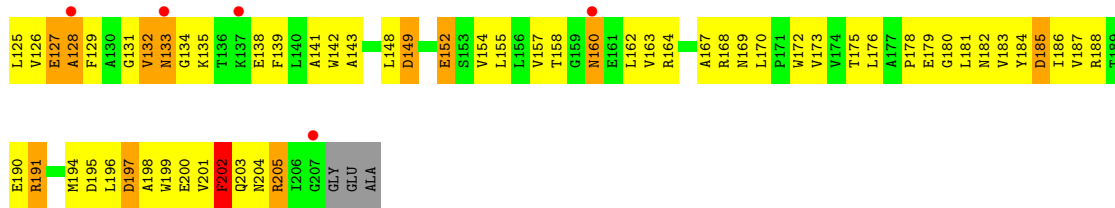


● Molecule 39: 50S ribosomal protein L3

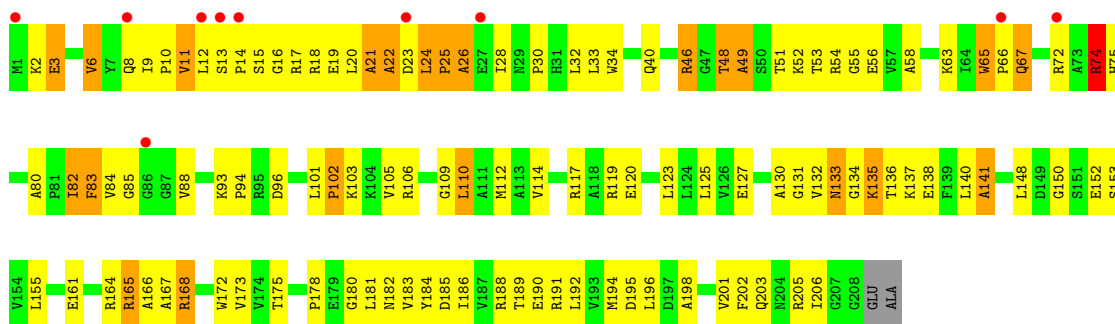


● Molecule 40: 50S ribosomal protein L4

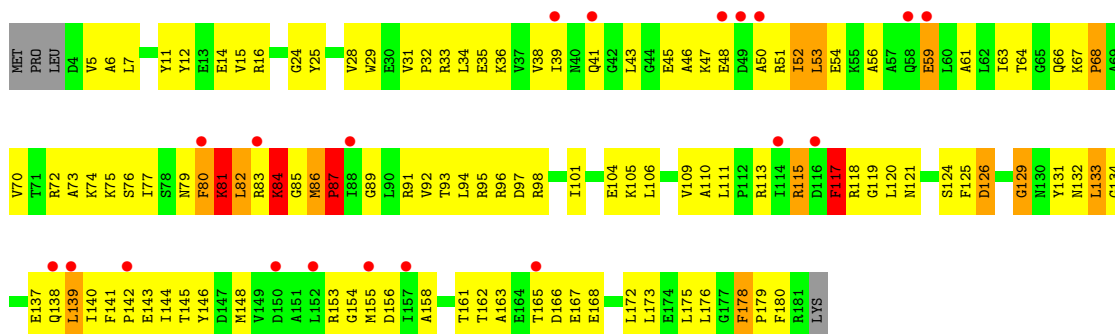




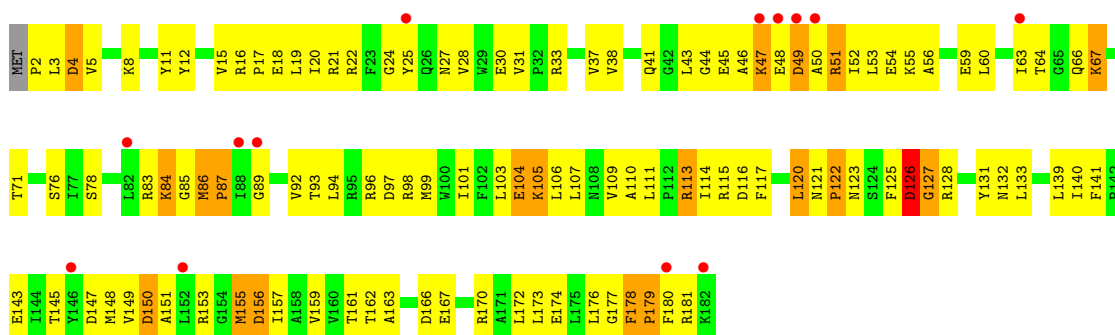
• Molecule 40: 50S ribosomal protein L4



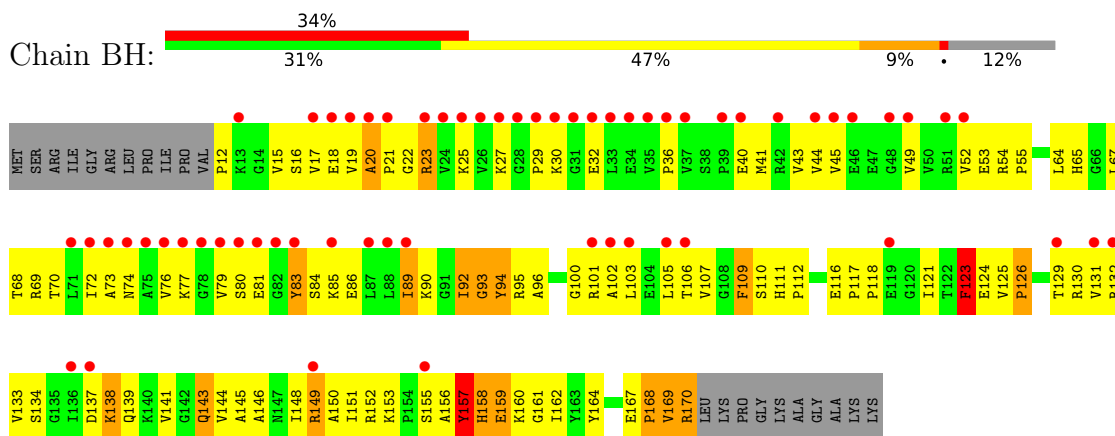
• Molecule 41: 50S ribosomal protein L5



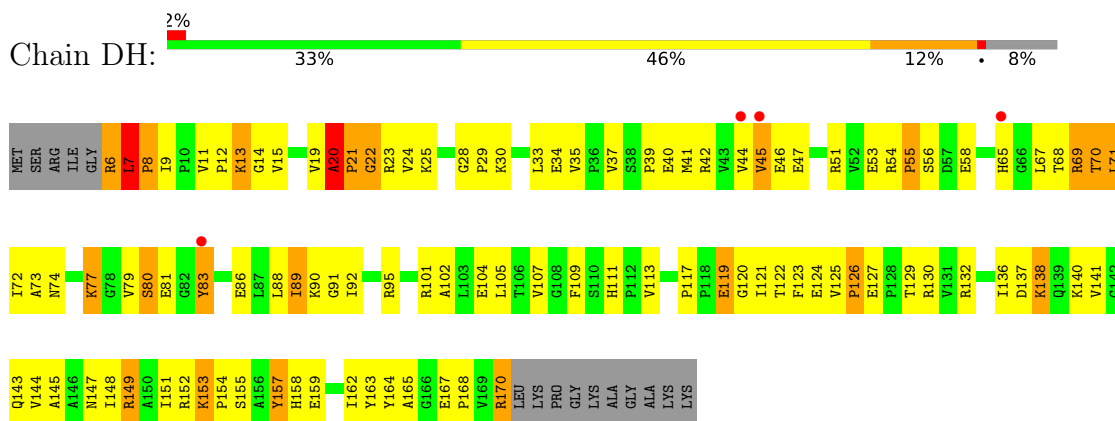
• Molecule 41: 50S ribosomal protein L5



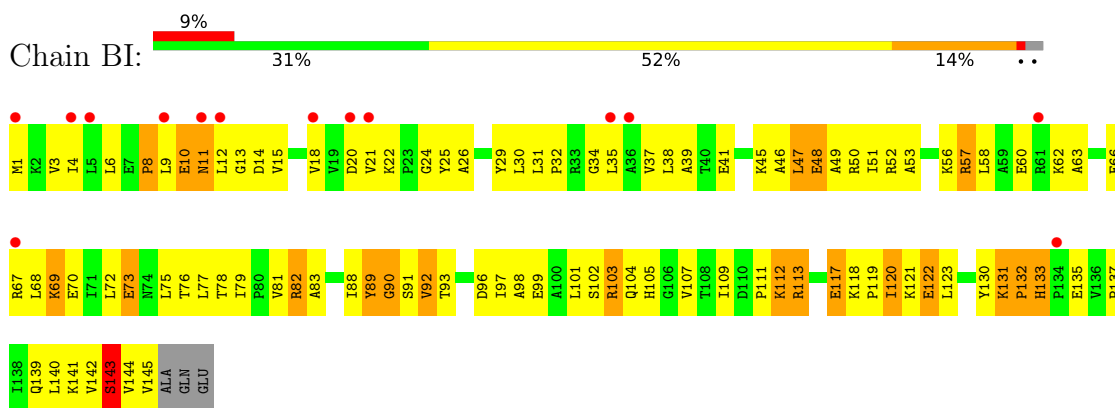
- Molecule 42: 50S ribosomal protein L6



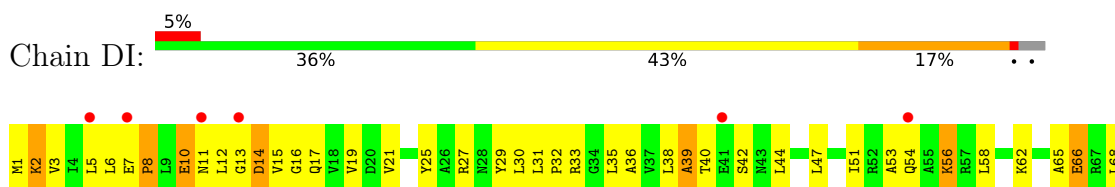
- Molecule 42: 50S ribosomal protein L6

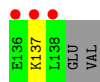


- Molecule 43: 50S ribosomal protein L9

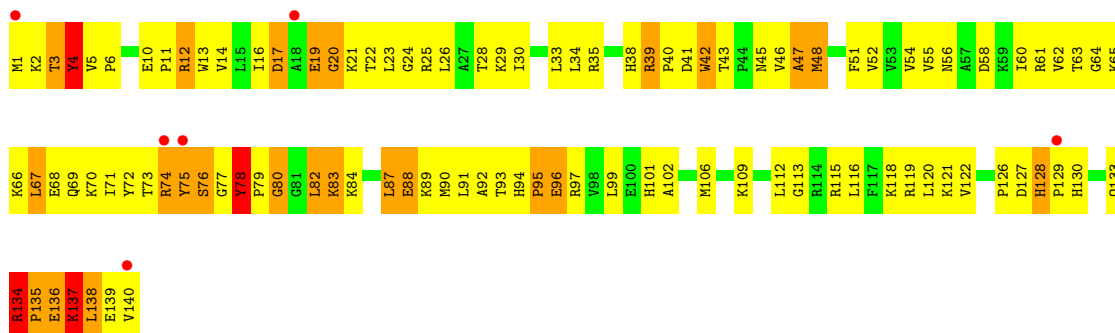


- Molecule 43: 50S ribosomal protein L9

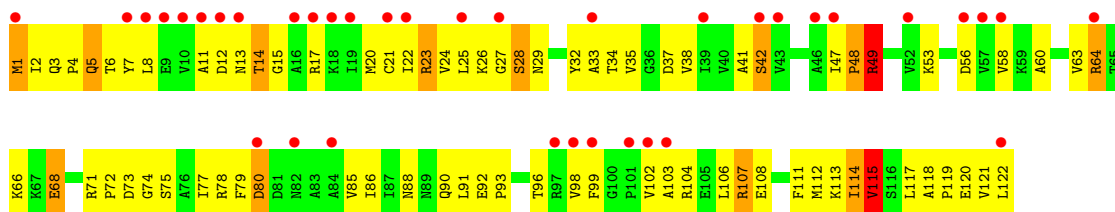




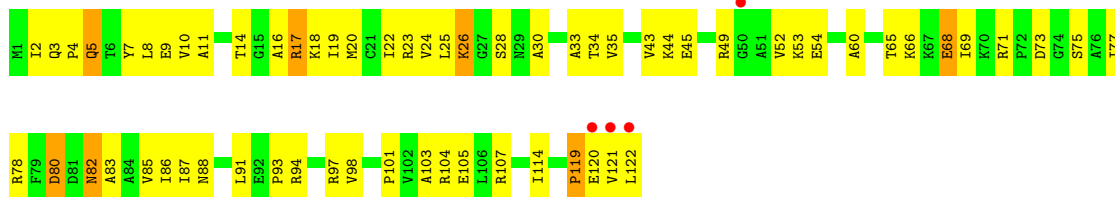
- Molecule 46: 50S ribosomal protein L13



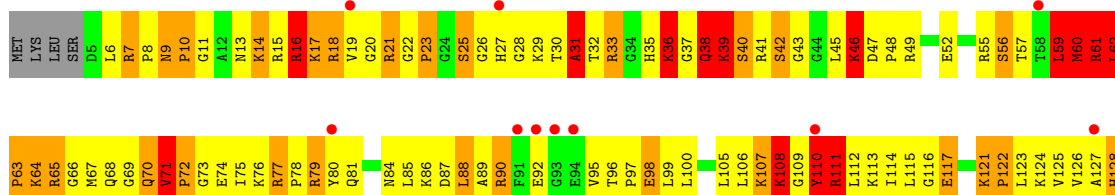
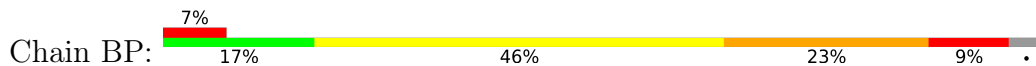
- Molecule 47: 50S ribosomal protein L14

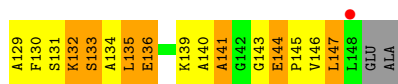


- Molecule 47: 50S ribosomal protein L14

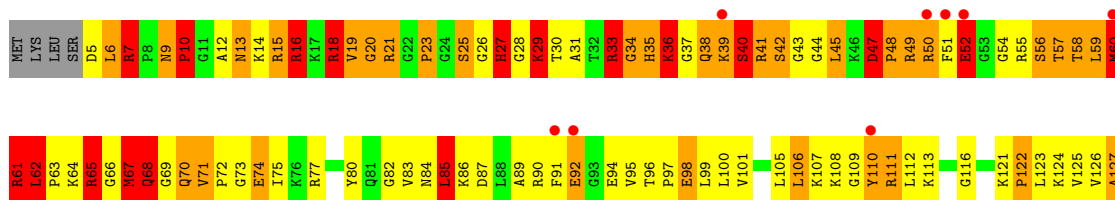
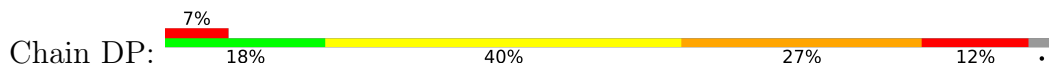


- Molecule 48: 50S ribosomal protein L15

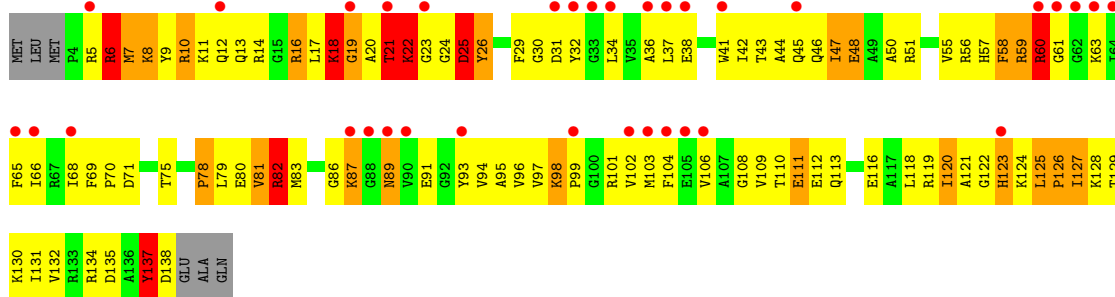




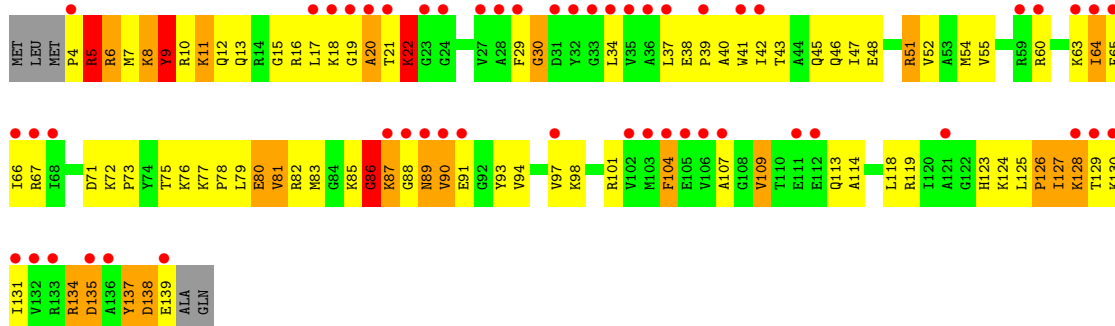
• Molecule 48: 50S ribosomal protein L15



• Molecule 49: 50S ribosomal protein L16

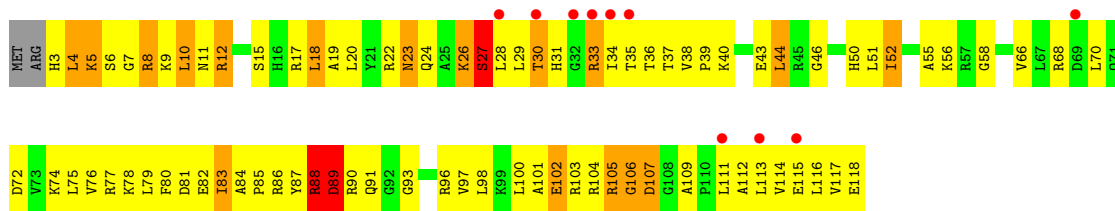


• Molecule 49: 50S ribosomal protein L16

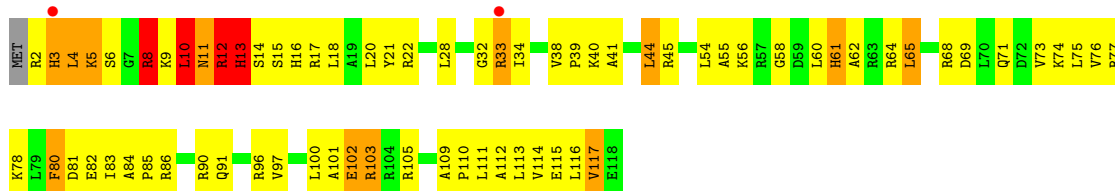


• Molecule 50: 50S ribosomal protein L17

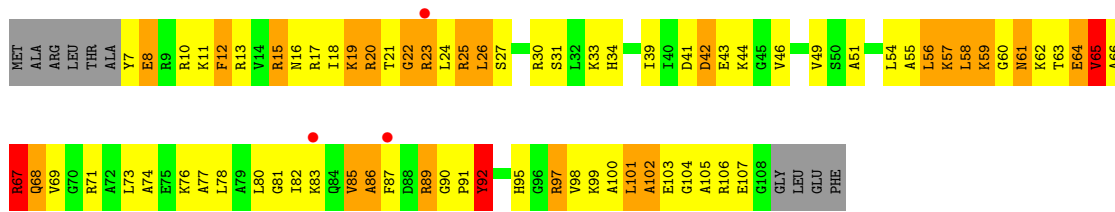
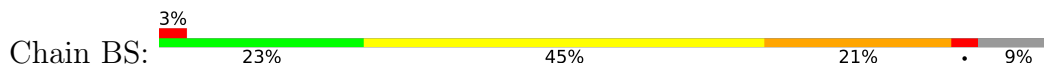




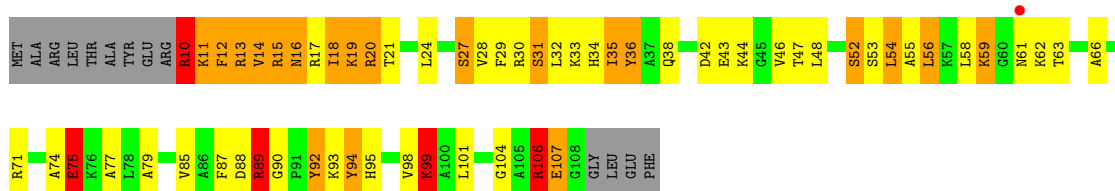
• Molecule 50: 50S ribosomal protein L17



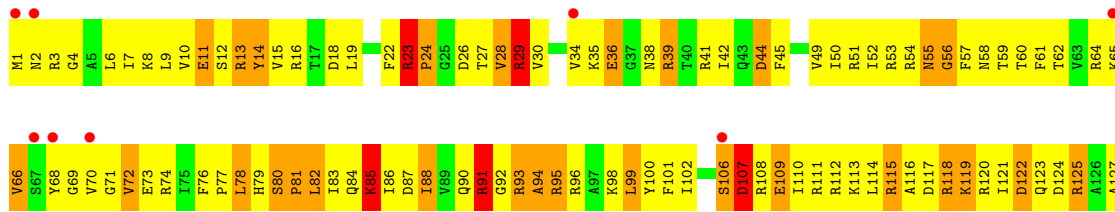
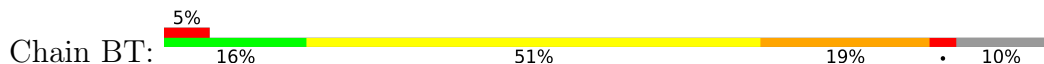
• Molecule 51: 50S ribosomal protein L18



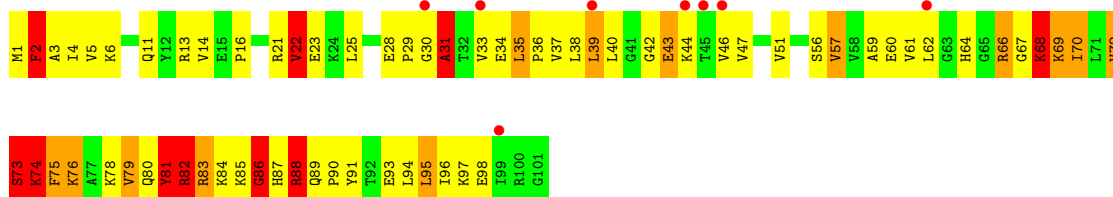
• Molecule 51: 50S ribosomal protein L18



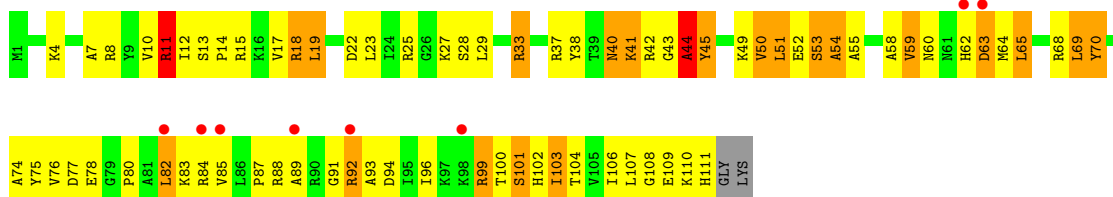
• Molecule 52: 50S ribosomal protein L19



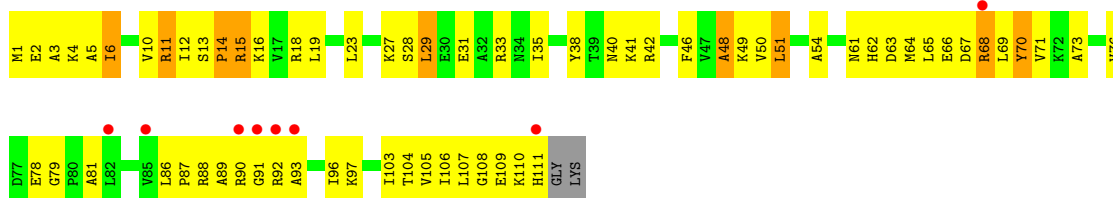
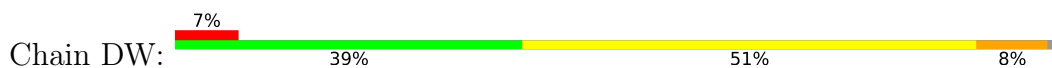
- Molecule 54: 50S ribosomal protein L21



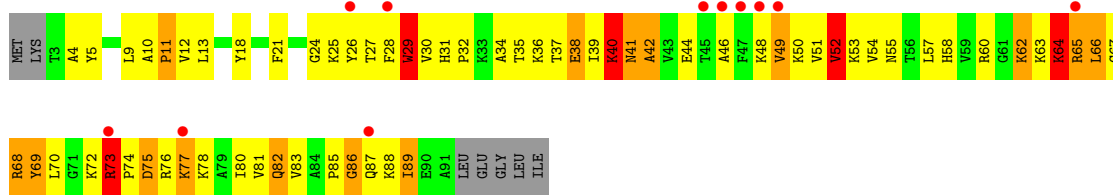
- Molecule 55: 50S ribosomal protein L22



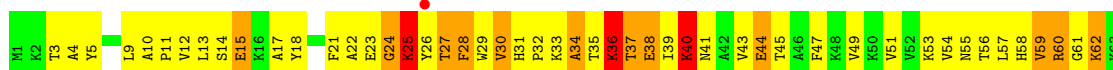
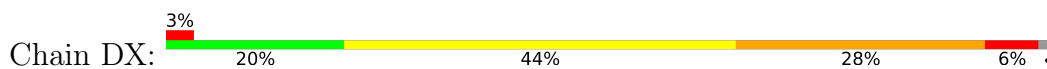
- Molecule 55: 50S ribosomal protein L22

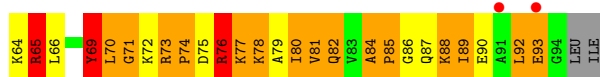


- Molecule 56: 50S ribosomal protein L23

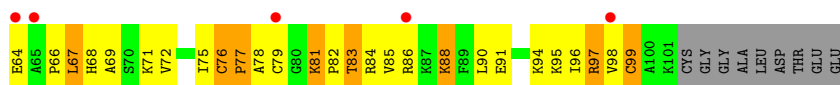
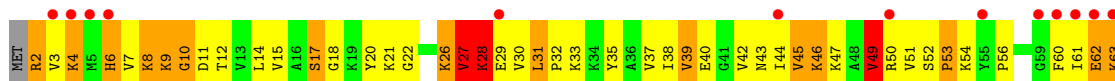
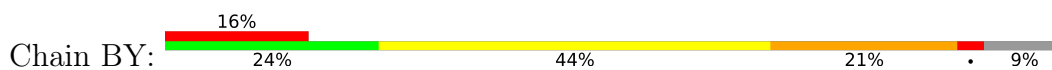


- Molecule 56: 50S ribosomal protein L23

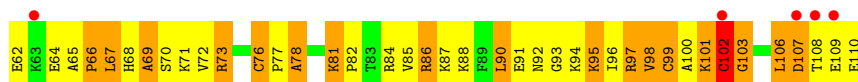
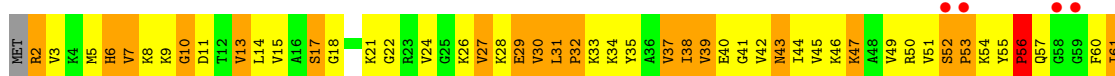
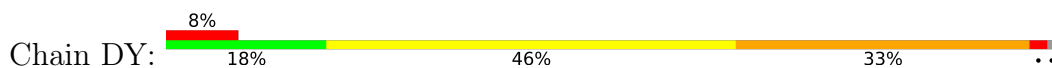




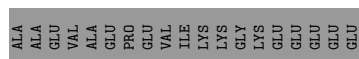
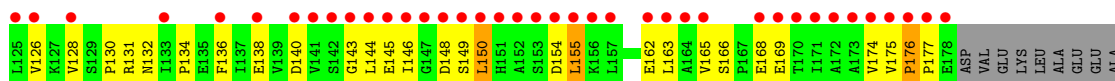
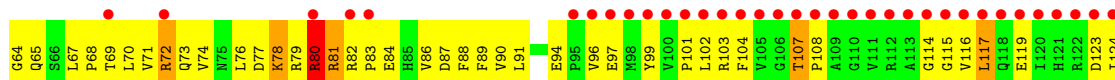
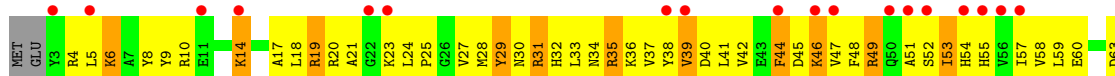
- Molecule 57: 50S ribosomal protein L24



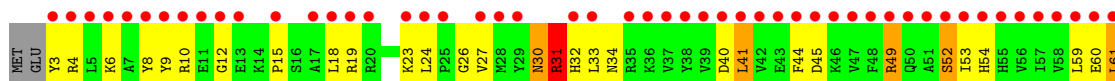
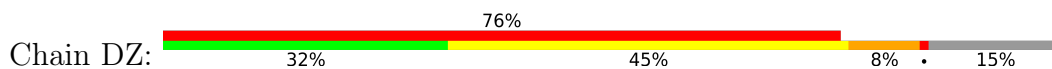
- Molecule 57: 50S ribosomal protein L24



- Molecule 58: 50S ribosomal protein L25



- Molecule 58: 50S ribosomal protein L25



P62	R192	LYS
D63	D123	LEU
G64	I124	ALA
Q65	L125	GLU
S66	V126	GLU
L67	K127	ALA
P68	V128	ALA
T69	S129	ALA
L70	P130	GLU
V71	R131	VAL
R72	N132	ALA
Q73	I133	GLU
V74	P134	PRO
N75	E135	GLU
L76	F136	VAL
D77	I137	ILE
K78	E138	LYS
R79	V139	LYS
R80	D140	GLY
R81	V141	LYS
R82	S142	GLU
P83	G143	GLU
E84	L144	GLU
H85	E145	GLU
V86	L146	GLU
D87	G147	GLU
F88	D148	GLU
F89	S149	GLU
V90	L150	GLU
L91	H151	GLU
S92	A152	GLU
D93	S153	GLU
E94	D154	GLU
P95	L155	GLU
V96	K156	GLU
E97	L157	GLU
M98	P158	GLU
Y99	P159	GLU
V100	G160	GLU
P101	V161	GLU
L102	E162	GLU
R103	L163	GLU
F104	A164	GLU
V105	V165	GLU
G106	S166	GLU
T107	P167	GLU
P108	E168	GLU
A109	E169	GLU
G110	T170	GLU
W111	L171	GLU
R112	A172	GLU
A113	A173	GLU
G114	V174	GLU
G115	V175	GLU
V116	P176	GLU
L117	P177	GLU
G118	E178	GLU
E119	ASP	ASP
I120	VAL	VAL
H121	GLU	GLU

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.45Å 449.38Å 619.59Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	147.06 – 3.27 147.06 – 3.27	Depositor EDS
% Data completeness (in resolution range)	99.7 (147.06-3.27) 99.7 (147.06-3.27)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.40 (at 3.26Å)	Xtrriage
Refinement program	PHENIX 1.16_3549	Depositor
R, R_{free}	0.214 , 0.277 0.214 , 0.277	Depositor DCC
R_{free} test set	44294 reflections (4.98%)	wwPDB-VP
Wilson B-factor (Å ²)	85.1	Xtrriage
Anisotropy	0.091	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 75.3	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	296449	wwPDB-VP
Average B, all atoms (Å ²)	86.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.44% 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: MG, EDS, ZN

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	0.93	31/36190 (0.1%)	1.66	836/56486 (1.5%)
1	CA	0.90	14/36193 (0.0%)	1.53	592/56490 (1.0%)
2	AB	0.50	1/1816 (0.1%)	0.90	6/2445 (0.2%)
2	CB	0.45	0/1935	0.66	1/2609 (0.0%)
3	AC	0.43	0/1636	0.68	1/2205 (0.0%)
3	CC	0.50	0/1644	0.68	1/2215 (0.0%)
4	AD	0.61	0/1733	0.82	2/2318 (0.1%)
4	CD	0.53	0/1733	0.74	0/2318
5	AE	0.50	0/1162	0.94	4/1564 (0.3%)
5	CE	0.60	1/1171 (0.1%)	0.79	0/1576
6	AF	0.52	0/856	0.70	0/1154
6	CF	0.56	0/856	0.68	1/1154 (0.1%)
7	AG	0.48	0/1276	0.71	1/1709 (0.1%)
7	CG	0.53	0/1276	0.73	4/1709 (0.2%)
8	AH	1.00	6/1136 (0.5%)	1.06	6/1527 (0.4%)
8	CH	0.54	0/1136	0.73	1/1527 (0.1%)
9	AI	0.45	0/964	0.64	0/1294
9	CI	0.42	0/1029	0.71	2/1379 (0.1%)
10	AJ	0.44	0/807	0.71	0/1085
10	CJ	0.46	0/807	0.76	1/1085 (0.1%)
11	AK	0.54	0/900	0.75	0/1213
11	CK	0.54	0/900	0.72	0/1213
12	AL	0.67	0/972	0.91	1/1301 (0.1%)
12	CL	0.69	0/986	0.96	1/1320 (0.1%)
13	AM	0.44	0/932	0.71	1/1249 (0.1%)
13	CM	0.51	0/956	0.68	0/1281
14	AN	0.55	0/500	0.83	0/664
14	CN	0.58	0/501	0.84	0/664
15	AO	0.48	0/745	0.78	1/992 (0.1%)
15	CO	0.53	0/745	0.67	0/992
16	AP	0.63	0/716	0.88	2/963 (0.2%)
16	CP	0.54	0/716	0.85	2/963 (0.2%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.57	0/836	0.77	1/1117 (0.1%)
17	CQ	0.56	0/836	0.83	0/1117
18	AR	0.51	0/579	0.78	1/768 (0.1%)
18	CR	0.54	0/579	0.82	0/768
19	AS	0.45	0/642	0.76	0/865
19	CS	0.55	0/642	0.76	0/865
20	AT	0.47	0/765	0.72	1/1007 (0.1%)
20	CT	0.47	0/765	0.77	0/1007
21	AU	0.47	0/212	0.74	0/277
21	CU	0.62	0/221	0.74	0/288
22	AV	0.84	1/1812 (0.1%)	1.59	39/2823 (1.4%)
22	CV	0.96	1/1835 (0.1%)	1.70	38/2857 (1.3%)
23	AW	0.71	1/1813 (0.1%)	1.52	37/2823 (1.3%)
23	AY	1.24	3/459 (0.7%)	1.96	18/714 (2.5%)
23	CW	0.73	1/1813 (0.1%)	1.45	25/2823 (0.9%)
23	CY	0.93	3/507 (0.6%)	1.56	7/789 (0.9%)
24	AX	0.90	0/285	1.66	6/441 (1.4%)
24	CX	1.11	0/285	1.87	13/441 (2.9%)
25	B0	0.64	0/615	0.92	1/819 (0.1%)
25	D0	0.80	1/653 (0.2%)	1.04	1/869 (0.1%)
26	B1	1.05	1/699 (0.1%)	1.30	8/929 (0.9%)
26	D1	1.07	2/699 (0.3%)	1.39	6/929 (0.6%)
27	B2	0.70	0/422	1.04	1/558 (0.2%)
27	D2	1.02	0/448	1.59	7/593 (1.2%)
28	B3	0.59	0/464	0.74	0/623
28	D3	0.65	0/481	0.90	1/646 (0.2%)
29	B4	0.46	0/221	0.72	0/306
29	D4	0.36	0/240	0.76	0/332
30	B5	0.79	0/432	1.00	2/585 (0.3%)
30	D5	0.82	1/481 (0.2%)	1.02	1/649 (0.2%)
31	B6	1.00	1/405 (0.2%)	1.18	3/540 (0.6%)
31	D6	1.10	5/415 (1.2%)	1.24	2/554 (0.4%)
32	B7	0.89	1/426 (0.2%)	1.11	5/561 (0.9%)
32	D7	0.79	1/426 (0.2%)	0.97	2/561 (0.4%)
33	B8	1.06	3/515 (0.6%)	1.47	6/679 (0.9%)
33	D8	0.98	0/502	1.37	6/661 (0.9%)
34	B9	0.56	0/310	0.89	1/407 (0.2%)
34	D9	0.62	0/310	0.95	1/407 (0.2%)
35	BA	1.16	199/68122 (0.3%)	1.89	2611/106350 (2.5%)
35	DA	1.31	367/68122 (0.5%)	2.03	3452/106350 (3.2%)
36	BB	0.81	0/2881	1.58	52/4494 (1.2%)
36	DB	1.00	4/2853 (0.1%)	1.80	95/4451 (2.1%)
37	BC	0.32	0/1144	0.62	0/1554

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DC	0.31	0/1144	0.57	0/1554
38	BD	0.79	0/2176	1.01	9/2933 (0.3%)
38	DD	0.82	1/2194 (0.0%)	1.05	10/2955 (0.3%)
39	BE	0.70	0/1596	0.98	4/2153 (0.2%)
39	DE	0.80	1/1596 (0.1%)	1.01	3/2153 (0.1%)
40	BF	0.72	2/1650 (0.1%)	0.87	1/2234 (0.0%)
40	DF	0.78	1/1662 (0.1%)	0.98	5/2249 (0.2%)
41	BG	0.47	0/1473	0.78	2/1983 (0.1%)
41	DG	0.52	0/1499	0.81	3/2016 (0.1%)
42	BH	0.45	0/1245	0.69	0/1682
42	DH	0.69	1/1295 (0.1%)	0.89	4/1753 (0.2%)
43	BI	0.52	0/1146	0.76	0/1551
43	DI	0.55	0/1139	0.87	3/1541 (0.2%)
46	BN	0.68	0/1123	0.90	1/1515 (0.1%)
46	DN	0.87	3/1147 (0.3%)	0.96	2/1547 (0.1%)
47	BO	0.71	0/943	0.93	3/1269 (0.2%)
47	DO	0.78	0/943	0.88	0/1269
48	BP	0.90	3/1116 (0.3%)	1.35	14/1485 (0.9%)
48	DP	1.12	7/1131 (0.6%)	1.56	22/1504 (1.5%)
49	BQ	0.70	0/1095	1.00	7/1464 (0.5%)
49	DQ	0.90	0/1104	1.21	5/1476 (0.3%)
50	BR	0.74	0/963	1.09	5/1288 (0.4%)
50	DR	0.74	0/974	1.08	6/1302 (0.5%)
51	BS	0.75	3/822 (0.4%)	1.05	4/1094 (0.4%)
51	DS	0.71	0/789	1.10	2/1050 (0.2%)
52	BT	0.72	0/1114	0.98	4/1488 (0.3%)
52	DT	0.84	2/1155 (0.2%)	1.12	5/1542 (0.3%)
53	BU	0.77	0/982	0.87	4/1306 (0.3%)
53	DU	0.83	1/982 (0.1%)	0.99	2/1306 (0.2%)
54	BV	0.70	0/790	1.48	4/1057 (0.4%)
54	DV	0.92	1/790 (0.1%)	1.32	11/1057 (1.0%)
55	BW	0.82	0/897	1.16	8/1204 (0.7%)
55	DW	0.70	0/897	0.97	5/1204 (0.4%)
56	BX	0.83	2/718 (0.3%)	1.08	2/965 (0.2%)
56	DX	1.06	2/756 (0.3%)	1.39	10/1014 (1.0%)
57	BY	0.66	1/788 (0.1%)	0.86	0/1051
57	DY	0.82	1/848 (0.1%)	1.10	3/1132 (0.3%)
58	BZ	0.46	1/1435 (0.1%)	0.69	0/1949
58	DZ	0.53	0/1435	0.82	2/1949 (0.1%)
All	All	1.01	682/317649 (0.2%)	1.64	8092/475105 (1.7%)

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
2	AB	0	1
2	CB	0	1
3	AC	0	1
3	CC	0	1
4	AD	0	2
4	CD	0	2
7	CG	0	1
8	AH	0	2
9	CI	0	1
10	AJ	0	3
10	CJ	0	2
12	AL	0	3
12	CL	0	4
14	CN	0	2
16	AP	0	2
16	CP	0	1
17	AQ	0	1
17	CQ	0	2
18	AR	0	1
18	CR	0	1
19	CS	0	1
20	AT	0	1
20	CT	0	2
26	B1	0	5
26	D1	0	4
27	B2	0	3
27	D2	0	5
29	D4	0	2
30	B5	0	2
31	B6	0	4
31	D6	0	4
32	B7	0	4
32	D7	0	1
33	B8	0	2
33	D8	0	1
37	DC	0	1
38	BD	0	4
38	DD	0	6
39	BE	0	3
39	DE	0	4
40	BF	0	2

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Mol	Chain	#Chirality outliers	#Planarity outliers
40	DF	0	1
41	BG	0	4
41	DG	0	1
42	BH	0	1
42	DH	0	2
43	BI	0	2
43	DI	0	3
46	BN	0	3
46	DN	0	5
47	BO	0	3
47	DO	0	1
48	BP	0	10
48	DP	0	12
49	BQ	0	6
49	DQ	0	5
50	BR	0	3
50	DR	0	1
51	BS	0	3
51	DS	0	5
52	BT	0	4
52	DT	0	6
53	BU	0	3
53	DU	0	3
54	BV	0	5
54	DV	0	5
55	BW	0	2
56	BX	0	4
56	DX	0	5
57	BY	0	2
57	DY	0	3
58	DZ	0	1
All	All	0	209

The worst 5 of 682 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	AH	104	ARG	CG-CD	17.27	1.95	1.51
35	BA	783	A	N9-C4	-13.33	1.29	1.37
8	AH	138	TRP	CE3-CZ3	-12.54	1.17	1.38
48	DP	16	ARG	CZ-NH1	-11.74	1.17	1.33
35	DA	528	A	N9-C4	-11.44	1.30	1.37

The worst 5 of 8092 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	BV	38	LEU	CB-CG-CD2	-27.88	63.60	111.00
35	BA	1899	G	N3-C4-N9	-23.15	112.11	126.00
35	BA	2818	G	N1-C6-O6	22.38	133.33	119.90
35	BA	2818	G	C5-C6-O6	-22.14	115.32	128.60
35	DA	1779	U	C5-C6-N1	-21.39	112.01	122.70

There are no chirality outliers.

5 of 209 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	AB	109	SER	Peptide
3	AC	161	GLU	Peptide
4	AD	31	CYS	Peptide
4	AD	32	ALA	Peptide
8	AH	7	ALA	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1281	0
1	CA	32332	0	16317	1094	0
2	AB	1784	0	1833	164	0
2	CB	1900	0	1951	148	0
3	AC	1612	0	1677	106	0
3	CC	1620	0	1689	122	0
4	AD	1703	0	1763	150	0
4	CD	1703	0	1763	120	0
5	AE	1146	0	1207	77	0
5	CE	1155	0	1213	84	0
6	AF	843	0	857	45	0
6	CF	843	0	857	43	0
7	AG	1257	0	1296	98	0
7	CG	1257	0	1296	76	0
8	AH	1116	0	1177	114	0
8	CH	1116	0	1177	70	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
9	AI	947	0	979	93	0
9	CI	1010	0	1037	86	0
10	AJ	794	0	840	88	0
10	CJ	794	0	840	73	0
11	AK	885	0	904	46	0
11	CK	885	0	904	50	0
12	AL	956	0	1046	89	0
12	CL	970	0	1057	59	0
13	AM	922	0	979	95	0
13	CM	946	0	1008	81	0
14	AN	491	0	529	71	0
14	CN	492	0	530	57	0
15	AO	734	0	771	59	0
15	CO	734	0	771	42	0
16	AP	700	0	720	40	0
16	CP	700	0	720	53	0
17	AQ	823	0	891	53	0
17	CQ	823	0	889	66	0
18	AR	574	0	642	37	0
18	CR	574	0	644	56	0
19	AS	629	0	652	79	0
19	CS	629	0	652	62	0
20	AT	763	0	861	52	0
20	CT	763	0	861	63	0
21	AU	208	0	221	14	0
21	CU	217	0	234	19	0
22	AV	1622	0	825	36	0
22	CV	1643	0	836	49	0
23	AW	1623	0	820	46	0
23	AY	410	0	207	18	0
23	CW	1623	0	821	65	0
23	CY	453	0	229	10	0
24	AX	255	0	129	6	0
24	CX	255	0	129	10	0
25	B0	607	0	628	51	0
25	D0	645	0	673	44	0
26	B1	692	0	764	108	0
26	D1	692	0	764	100	0
27	B2	420	0	461	70	0
27	D2	446	0	486	88	0
28	B3	459	0	512	25	0
28	D3	476	0	529	31	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	B4	222	0	91	4	0
29	D4	241	0	103	7	0
30	B5	418	0	432	43	0
30	D5	467	0	492	48	0
31	B6	398	0	417	60	0
31	D6	408	0	426	53	0
32	B7	418	0	467	38	0
32	D7	418	0	467	30	0
33	B8	507	0	576	93	0
33	D8	495	0	567	93	0
34	B9	307	0	336	31	0
34	D9	307	0	335	17	0
35	BA	60821	0	30654	2020	0
35	DA	60821	0	30655	1774	0
36	BB	2576	0	1305	111	0
36	DB	2551	0	1295	90	0
37	BC	1141	0	865	41	0
37	DC	1141	0	865	57	0
38	BD	2126	0	2208	194	0
38	DD	2144	0	2234	185	0
39	BE	1563	0	1629	144	0
39	DE	1563	0	1629	133	0
40	BF	1615	0	1665	165	0
40	DF	1627	0	1679	125	0
41	BG	1449	0	1503	110	0
41	DG	1474	0	1535	115	0
42	BH	1222	0	1282	88	0
42	DH	1270	0	1339	95	0
43	BI	1131	0	1218	97	0
43	DI	1124	0	1209	72	0
44	BJ	651	0	171	9	0
44	DJ	651	0	163	4	0
45	BK	700	0	166	0	0
45	DK	700	0	179	5	0
46	BN	1096	0	1168	101	0
46	DN	1120	0	1195	111	0
47	BO	933	0	996	72	0
47	DO	933	0	996	57	0
48	BP	1099	0	1176	221	0
48	DP	1114	0	1187	201	0
49	BQ	1074	0	1129	114	0
49	DQ	1083	0	1135	110	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
50	BR	949	0	1008	113	0
50	DR	960	0	1021	90	0
51	BS	813	0	873	115	0
51	DS	781	0	845	87	0
52	BT	1100	0	1164	127	0
52	DT	1141	0	1202	125	0
53	BU	964	0	1022	113	0
53	DU	964	0	1022	108	0
54	BV	779	0	852	122	0
54	DV	779	0	852	108	0
55	BW	886	0	948	89	0
55	DW	886	0	948	53	0
56	BX	704	0	758	103	0
56	DX	742	0	801	126	0
57	BY	775	0	870	91	0
57	DY	835	0	920	127	0
58	BZ	1403	0	1432	118	0
58	DZ	1403	0	1432	91	0
59	AA	209	0	0	0	0
59	AC	1	0	0	0	0
59	AD	1	0	0	0	0
59	AE	1	0	0	0	0
59	AL	1	0	0	0	0
59	AT	1	0	0	0	0
59	AV	7	0	0	0	0
59	AW	20	0	0	0	0
59	AX	3	0	0	0	0
59	B0	1	0	0	0	0
59	B1	2	0	0	0	0
59	B2	1	0	0	0	0
59	B5	1	0	0	0	0
59	B7	1	0	0	0	0
59	B8	2	0	0	0	0
59	BA	457	0	0	0	0
59	BB	17	0	0	0	0
59	BC	2	0	0	0	0
59	BE	2	0	0	0	0
59	BF	3	0	0	0	0
59	BQ	1	0	0	0	0
59	BS	1	0	0	0	0
59	BU	5	0	0	0	0
59	BV	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	BX	2	0	0	0	0
59	CA	195	0	0	0	0
59	CE	1	0	0	0	0
59	CF	1	0	0	0	0
59	CG	1	0	0	0	0
59	CI	1	0	0	0	0
59	CU	1	0	0	0	0
59	CV	4	0	0	0	0
59	CW	13	0	0	0	0
59	CX	2	0	0	0	0
59	D2	2	0	0	0	0
59	D5	1	0	0	0	0
59	DA	392	0	0	0	0
59	DB	12	0	0	0	0
59	DE	1	0	0	0	0
59	DF	2	0	0	0	0
59	DN	1	0	0	0	0
59	DO	2	0	0	0	0
59	DV	1	0	0	0	0
60	AA	41	0	0	2	0
60	CA	41	0	0	1	0
61	AD	1	0	0	0	0
61	AN	1	0	0	0	0
61	B9	1	0	0	0	0
61	CD	1	0	0	0	0
61	CN	1	0	0	0	0
61	D9	1	0	0	0	0
62	AA	2	0	0	1	0
All	All	296449	0	198495	13485	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 28.

The worst 5 of 13485 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)
2:AB:142:LEU:CD2	2:AB:142:LEU:CG	1.77	1.58
4:AD:122:ARG:HH12	4:AD:136:PRO:CD	1.22	1.50
4:AD:122:ARG:NH1	4:AD:136:PRO:HD3	1.27	1.48
8:AH:104:ARG:CD	8:AH:104:ARG:CG	1.95	1.43
58:DZ:61:LEU:HD12	58:DZ:62:PRO:CD	1.52	1.35

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	216/256 (84%)	148 (68%)	42 (19%)	26 (12%)	0	2
2	CB	232/256 (91%)	148 (64%)	59 (25%)	25 (11%)	0	3
3	AC	204/239 (85%)	145 (71%)	41 (20%)	18 (9%)	1	5
3	CC	205/239 (86%)	153 (75%)	37 (18%)	15 (7%)	1	7
4	AD	206/209 (99%)	148 (72%)	35 (17%)	23 (11%)	0	2
4	CD	206/209 (99%)	150 (73%)	41 (20%)	15 (7%)	1	7
5	AE	148/162 (91%)	113 (76%)	24 (16%)	11 (7%)	1	7
5	CE	149/162 (92%)	114 (76%)	27 (18%)	8 (5%)	2	12
6	AF	99/101 (98%)	80 (81%)	12 (12%)	7 (7%)	1	8
6	CF	99/101 (98%)	84 (85%)	12 (12%)	3 (3%)	4	25
7	AG	153/156 (98%)	103 (67%)	33 (22%)	17 (11%)	0	2
7	CG	153/156 (98%)	112 (73%)	30 (20%)	11 (7%)	1	8
8	AH	136/138 (99%)	98 (72%)	25 (18%)	13 (10%)	0	4
8	CH	136/138 (99%)	100 (74%)	26 (19%)	10 (7%)	1	7
9	AI	119/128 (93%)	80 (67%)	20 (17%)	19 (16%)	0	1
9	CI	125/128 (98%)	87 (70%)	23 (18%)	15 (12%)	0	2
10	AJ	96/105 (91%)	61 (64%)	23 (24%)	12 (12%)	0	2
10	CJ	96/105 (91%)	66 (69%)	20 (21%)	10 (10%)	0	3
11	AK	117/129 (91%)	89 (76%)	19 (16%)	9 (8%)	1	6
11	CK	117/129 (91%)	86 (74%)	23 (20%)	8 (7%)	1	8
12	AL	120/132 (91%)	81 (68%)	23 (19%)	16 (13%)	0	1
12	CL	122/132 (92%)	86 (70%)	21 (17%)	15 (12%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
13	AM	114/126 (90%)	78 (68%)	22 (19%)	14 (12%)	0	2
13	CM	117/126 (93%)	88 (75%)	16 (14%)	13 (11%)	0	2
14	AN	58/61 (95%)	35 (60%)	16 (28%)	7 (12%)	0	2
14	CN	58/61 (95%)	36 (62%)	13 (22%)	9 (16%)	0	1
15	AO	86/89 (97%)	67 (78%)	14 (16%)	5 (6%)	1	11
15	CO	86/89 (97%)	61 (71%)	19 (22%)	6 (7%)	1	8
16	AP	81/88 (92%)	58 (72%)	17 (21%)	6 (7%)	1	7
16	CP	81/88 (92%)	53 (65%)	22 (27%)	6 (7%)	1	7
17	AQ	97/105 (92%)	81 (84%)	13 (13%)	3 (3%)	4	24
17	CQ	97/105 (92%)	74 (76%)	13 (13%)	10 (10%)	0	3
18	AR	68/88 (77%)	55 (81%)	8 (12%)	5 (7%)	1	7
18	CR	68/88 (77%)	48 (71%)	12 (18%)	8 (12%)	0	2
19	AS	76/93 (82%)	33 (43%)	30 (40%)	13 (17%)	0	1
19	CS	76/93 (82%)	46 (60%)	15 (20%)	15 (20%)	0	0
20	AT	97/106 (92%)	64 (66%)	23 (24%)	10 (10%)	0	3
20	CT	97/106 (92%)	67 (69%)	18 (19%)	12 (12%)	0	2
21	AU	22/27 (82%)	15 (68%)	3 (14%)	4 (18%)	0	1
21	CU	23/27 (85%)	19 (83%)	1 (4%)	3 (13%)	0	1
25	B0	74/85 (87%)	56 (76%)	13 (18%)	5 (7%)	1	8
25	D0	80/85 (94%)	59 (74%)	13 (16%)	8 (10%)	0	3
26	B1	86/98 (88%)	45 (52%)	21 (24%)	20 (23%)	0	0
26	D1	86/98 (88%)	60 (70%)	12 (14%)	14 (16%)	0	1
27	B2	48/72 (67%)	14 (29%)	20 (42%)	14 (29%)	0	0
27	D2	51/72 (71%)	22 (43%)	16 (31%)	13 (26%)	0	0
28	B3	56/60 (93%)	47 (84%)	7 (12%)	2 (4%)	3	21
28	D3	58/60 (97%)	46 (79%)	7 (12%)	5 (9%)	1	5
29	B4	43/71 (61%)	10 (23%)	13 (30%)	20 (46%)	0	0
29	D4	47/71 (66%)	11 (23%)	17 (36%)	19 (40%)	0	0
30	B5	52/60 (87%)	34 (65%)	9 (17%)	9 (17%)	0	1
30	D5	58/60 (97%)	40 (69%)	14 (24%)	4 (7%)	1	8
31	B6	44/54 (82%)	19 (43%)	8 (18%)	17 (39%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
31	D6	45/54 (83%)	19 (42%)	14 (31%)	12 (27%)	0	0
32	B7	46/49 (94%)	36 (78%)	6 (13%)	4 (9%)	1	5
32	D7	46/49 (94%)	42 (91%)	4 (9%)	0	100	100
33	B8	61/65 (94%)	37 (61%)	15 (25%)	9 (15%)	0	1
33	D8	60/65 (92%)	35 (58%)	13 (22%)	12 (20%)	0	0
34	B9	35/37 (95%)	28 (80%)	5 (14%)	2 (6%)	1	11
34	D9	35/37 (95%)	25 (71%)	7 (20%)	3 (9%)	1	5
37	BC	182/229 (80%)	82 (45%)	54 (30%)	46 (25%)	0	0
37	DC	182/229 (80%)	78 (43%)	63 (35%)	41 (22%)	0	0
38	BD	271/276 (98%)	203 (75%)	45 (17%)	23 (8%)	1	5
38	DD	273/276 (99%)	212 (78%)	43 (16%)	18 (7%)	1	9
39	BE	202/206 (98%)	147 (73%)	35 (17%)	20 (10%)	0	3
39	DE	202/206 (98%)	137 (68%)	36 (18%)	29 (14%)	0	1
40	BF	204/210 (97%)	130 (64%)	39 (19%)	35 (17%)	0	1
40	DF	206/210 (98%)	152 (74%)	35 (17%)	19 (9%)	1	4
41	BG	176/182 (97%)	117 (66%)	42 (24%)	17 (10%)	0	4
41	DG	179/182 (98%)	132 (74%)	32 (18%)	15 (8%)	1	5
42	BH	157/180 (87%)	92 (59%)	43 (27%)	22 (14%)	0	1
42	DH	163/180 (91%)	104 (64%)	33 (20%)	26 (16%)	0	1
43	BI	143/148 (97%)	88 (62%)	35 (24%)	20 (14%)	0	1
43	DI	142/148 (96%)	91 (64%)	30 (21%)	21 (15%)	0	1
46	BN	135/140 (96%)	91 (67%)	20 (15%)	24 (18%)	0	1
46	DN	138/140 (99%)	90 (65%)	22 (16%)	26 (19%)	0	1
47	BO	120/122 (98%)	89 (74%)	21 (18%)	10 (8%)	1	6
47	DO	120/122 (98%)	106 (88%)	13 (11%)	1 (1%)	19	52
48	BP	142/150 (95%)	64 (45%)	38 (27%)	40 (28%)	0	0
48	DP	144/150 (96%)	63 (44%)	35 (24%)	46 (32%)	0	0
49	BQ	133/141 (94%)	76 (57%)	34 (26%)	23 (17%)	0	1
49	DQ	134/141 (95%)	91 (68%)	27 (20%)	16 (12%)	0	2
50	BR	114/118 (97%)	83 (73%)	19 (17%)	12 (10%)	0	3
50	DR	115/118 (98%)	92 (80%)	12 (10%)	11 (10%)	0	4

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	BS	100/112 (89%)	58 (58%)	21 (21%)	21 (21%)	0	0
51	DS	97/112 (87%)	59 (61%)	22 (23%)	16 (16%)	0	1
52	BT	130/146 (89%)	70 (54%)	34 (26%)	26 (20%)	0	0
52	DT	135/146 (92%)	96 (71%)	25 (18%)	14 (10%)	0	3
53	BU	115/118 (98%)	86 (75%)	17 (15%)	12 (10%)	0	3
53	DU	115/118 (98%)	96 (84%)	11 (10%)	8 (7%)	1	8
54	BV	99/101 (98%)	50 (50%)	21 (21%)	28 (28%)	0	0
54	DV	99/101 (98%)	62 (63%)	22 (22%)	15 (15%)	0	1
55	BW	109/113 (96%)	84 (77%)	16 (15%)	9 (8%)	1	6
55	DW	109/113 (96%)	95 (87%)	5 (5%)	9 (8%)	1	6
56	BX	87/96 (91%)	46 (53%)	25 (29%)	16 (18%)	0	1
56	DX	92/96 (96%)	63 (68%)	9 (10%)	20 (22%)	0	0
57	BY	98/110 (89%)	45 (46%)	27 (28%)	26 (26%)	0	0
57	DY	107/110 (97%)	53 (50%)	26 (24%)	28 (26%)	0	0
58	BZ	174/206 (84%)	113 (65%)	43 (25%)	18 (10%)	0	3
58	DZ	174/206 (84%)	120 (69%)	33 (19%)	21 (12%)	0	2
All	All	11584/12586 (92%)	7801 (67%)	2288 (20%)	1495 (13%)	0	1

5 of 1495 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	22	LYS
2	AB	48	MET
2	AB	124	SER
2	AB	132	LYS
2	AB	150	SER

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	189/220 (86%)	167 (88%)	22 (12%)	5	22
2	CB	202/220 (92%)	186 (92%)	16 (8%)	12	37
3	AC	160/188 (85%)	148 (92%)	12 (8%)	13	39
3	CC	161/188 (86%)	150 (93%)	11 (7%)	16	44
4	AD	180/181 (99%)	164 (91%)	16 (9%)	9	32
4	CD	180/181 (99%)	164 (91%)	16 (9%)	9	32
5	AE	115/123 (94%)	105 (91%)	10 (9%)	10	34
5	CE	116/123 (94%)	104 (90%)	12 (10%)	7	26
6	AF	90/90 (100%)	83 (92%)	7 (8%)	12	38
6	CF	90/90 (100%)	89 (99%)	1 (1%)	73	85
7	AG	126/127 (99%)	114 (90%)	12 (10%)	8	29
7	CG	126/127 (99%)	117 (93%)	9 (7%)	14	42
8	AH	119/119 (100%)	110 (92%)	9 (8%)	13	39
8	CH	119/119 (100%)	107 (90%)	12 (10%)	7	27
9	AI	92/99 (93%)	82 (89%)	10 (11%)	6	24
9	CI	98/99 (99%)	85 (87%)	13 (13%)	4	17
10	AJ	88/92 (96%)	75 (85%)	13 (15%)	3	14
10	CJ	88/92 (96%)	83 (94%)	5 (6%)	20	51
11	AK	90/99 (91%)	80 (89%)	10 (11%)	6	24
11	CK	90/99 (91%)	84 (93%)	6 (7%)	16	45
12	AL	103/109 (94%)	96 (93%)	7 (7%)	16	44
12	CL	104/109 (95%)	90 (86%)	14 (14%)	4	17
13	AM	93/101 (92%)	82 (88%)	11 (12%)	5	21
13	CM	95/101 (94%)	84 (88%)	11 (12%)	5	22
14	AN	49/50 (98%)	41 (84%)	8 (16%)	2	10
14	CN	49/50 (98%)	44 (90%)	5 (10%)	7	27
15	AO	79/80 (99%)	72 (91%)	7 (9%)	9	32
15	CO	79/80 (99%)	77 (98%)	2 (2%)	47	72
16	AP	72/74 (97%)	68 (94%)	4 (6%)	21	51
16	CP	72/74 (97%)	68 (94%)	4 (6%)	21	51
17	AQ	94/97 (97%)	88 (94%)	6 (6%)	17	47
17	CQ	94/97 (97%)	88 (94%)	6 (6%)	17	47

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
18	AR	61/77 (79%)	60 (98%)	1 (2%)	62	79
18	CR	61/77 (79%)	54 (88%)	7 (12%)	5	22
19	AS	69/80 (86%)	63 (91%)	6 (9%)	10	34
19	CS	69/80 (86%)	58 (84%)	11 (16%)	2	11
20	AT	76/82 (93%)	76 (100%)	0	100	100
20	CT	76/82 (93%)	69 (91%)	7 (9%)	9	31
21	AU	19/22 (86%)	15 (79%)	4 (21%)	1	4
21	CU	20/22 (91%)	16 (80%)	4 (20%)	1	5
25	B0	61/67 (91%)	59 (97%)	2 (3%)	38	66
25	D0	64/67 (96%)	62 (97%)	2 (3%)	40	67
26	B1	73/83 (88%)	65 (89%)	8 (11%)	6	24
26	D1	73/83 (88%)	66 (90%)	7 (10%)	8	29
27	B2	46/67 (69%)	38 (83%)	8 (17%)	2	8
27	D2	49/67 (73%)	45 (92%)	4 (8%)	11	36
28	B3	50/52 (96%)	49 (98%)	1 (2%)	55	76
28	D3	52/52 (100%)	50 (96%)	2 (4%)	33	62
30	B5	46/52 (88%)	41 (89%)	5 (11%)	6	24
30	D5	52/52 (100%)	47 (90%)	5 (10%)	8	29
31	B6	45/52 (86%)	36 (80%)	9 (20%)	1	5
31	D6	46/52 (88%)	38 (83%)	8 (17%)	2	8
32	B7	41/42 (98%)	36 (88%)	5 (12%)	5	20
32	D7	41/42 (98%)	38 (93%)	3 (7%)	14	40
33	B8	53/55 (96%)	47 (89%)	6 (11%)	6	23
33	D8	52/55 (94%)	49 (94%)	3 (6%)	20	50
34	B9	34/34 (100%)	31 (91%)	3 (9%)	10	33
34	D9	34/34 (100%)	31 (91%)	3 (9%)	10	33
37	BC	61/181 (34%)	58 (95%)	3 (5%)	25	56
37	DC	61/181 (34%)	57 (93%)	4 (7%)	16	46
38	BD	215/218 (99%)	198 (92%)	17 (8%)	12	37
38	DD	217/218 (100%)	198 (91%)	19 (9%)	10	33
39	BE	165/166 (99%)	151 (92%)	14 (8%)	10	35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	DE	165/166 (99%)	153 (93%)	12 (7%)	14	40
40	BF	164/166 (99%)	150 (92%)	14 (8%)	10	35
40	DF	165/166 (99%)	157 (95%)	8 (5%)	25	56
41	BG	152/156 (97%)	145 (95%)	7 (5%)	27	58
41	DG	155/156 (99%)	145 (94%)	10 (6%)	17	46
42	BH	132/148 (89%)	125 (95%)	7 (5%)	22	53
42	DH	138/148 (93%)	129 (94%)	9 (6%)	17	46
43	BI	122/124 (98%)	110 (90%)	12 (10%)	8	29
43	DI	121/124 (98%)	111 (92%)	10 (8%)	11	35
46	BN	116/119 (98%)	106 (91%)	10 (9%)	10	34
46	DN	119/119 (100%)	110 (92%)	9 (8%)	13	39
47	BO	100/100 (100%)	90 (90%)	10 (10%)	7	28
47	DO	100/100 (100%)	92 (92%)	8 (8%)	12	37
48	BP	111/116 (96%)	98 (88%)	13 (12%)	5	22
48	DP	112/116 (97%)	89 (80%)	23 (20%)	1	4
49	BQ	106/111 (96%)	91 (86%)	15 (14%)	3	16
49	DQ	107/111 (96%)	95 (89%)	12 (11%)	6	23
50	BR	99/101 (98%)	90 (91%)	9 (9%)	9	31
50	DR	100/101 (99%)	89 (89%)	11 (11%)	6	24
51	BS	81/88 (92%)	71 (88%)	10 (12%)	4	20
51	DS	78/88 (89%)	65 (83%)	13 (17%)	2	10
52	BT	116/127 (91%)	99 (85%)	17 (15%)	3	14
52	DT	120/127 (94%)	101 (84%)	19 (16%)	2	11
53	BU	93/94 (99%)	81 (87%)	12 (13%)	4	18
53	DU	93/94 (99%)	89 (96%)	4 (4%)	29	59
54	BV	82/82 (100%)	75 (92%)	7 (8%)	10	35
54	DV	82/82 (100%)	74 (90%)	8 (10%)	8	29
55	BW	91/92 (99%)	79 (87%)	12 (13%)	4	17
55	DW	91/92 (99%)	85 (93%)	6 (7%)	16	46
56	BX	72/78 (92%)	63 (88%)	9 (12%)	4	19
56	DX	76/78 (97%)	64 (84%)	12 (16%)	2	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
57	BY	84/91 (92%)	75 (89%)	9 (11%)	6	25
57	DY	90/91 (99%)	78 (87%)	12 (13%)	4	17
58	BZ	155/179 (87%)	138 (89%)	17 (11%)	6	24
58	DZ	155/179 (87%)	141 (91%)	14 (9%)	9	32
All	All	9527/10302 (92%)	8649 (91%)	878 (9%)	9	31

5 of 878 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	CC	20	SER
14	CN	24	CYS
58	DZ	145	GLU
51	DS	71	ARG
4	CD	59	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 99 such sidechains are listed below:

Mol	Chain	Res	Type
2	CB	104	ASN
17	CQ	45	HIS
3	CC	63	ASN
10	CJ	84	GLN
31	D6	26	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1520 (98%)	533 (35%)	67 (4%)
1	CA	1503/1520 (98%)	451 (30%)	39 (2%)
22	AV	75/77 (97%)	27 (36%)	1 (1%)
22	CV	76/77 (98%)	30 (39%)	0
23	AW	75/76 (98%)	63 (84%)	8 (10%)
23	AY	18/76 (23%)	8 (44%)	0
23	CW	75/76 (98%)	50 (66%)	4 (5%)
23	CY	20/76 (26%)	6 (30%)	0
24	AX	11/24 (45%)	4 (36%)	1 (9%)
24	CX	11/24 (45%)	4 (36%)	1 (9%)
35	BA	2823/2839 (99%)	984 (34%)	91 (3%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
35	DA	2823/2839 (99%)	882 (31%)	74 (2%)
36	BB	119/122 (97%)	39 (32%)	2 (1%)
36	DB	118/122 (96%)	37 (31%)	5 (4%)
All	All	9250/9468 (97%)	3118 (33%)	293 (3%)

5 of 3118 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	10	A
1	AA	14	U
1	AA	22	G
1	AA	31	G

5 of 293 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
35	DA	574	C
35	DA	2859	G
35	DA	859	G
35	DA	1740	G
35	BA	405	U

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

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

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1384 ligands modelled in this entry, 1382 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	$\# Z > 2$
60	EDS	AA	1805	-	38,43,43	1.75	9 (23%)	38,61,61	1.54	7 (18%)
60	EDS	CA	1787	-	38,43,43	1.80	6 (15%)	38,61,61	1.96	14 (36%)

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
60	EDS	AA	1805	-	-	4/23/79/79	0/3/3/3
60	EDS	CA	1787	-	-	4/23/79/79	0/3/3/3

The worst 5 of 15 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
60	AA	1805	EDS	CBE-NAK	5.54	1.46	1.34
60	CA	1787	EDS	OAC-CBA	5.00	1.50	1.43
60	CA	1787	EDS	CBE-NAK	4.87	1.44	1.34
60	AA	1805	EDS	OAJ-CBO	-4.21	1.20	1.42
60	CA	1787	EDS	OAF-CAZ	-4.13	1.37	1.44

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
60	AA	1805	EDS	CAT-CAS-CAQ	4.66	118.62	108.96
60	CA	1787	EDS	CBL-NAO-CBN	-3.68	107.50	113.33
60	CA	1787	EDS	CAV-CAR-NAK	-3.58	105.32	110.86
60	CA	1787	EDS	CBA-OAC-CAW	3.58	117.29	111.53
60	CA	1787	EDS	OAJ-CBO-CBN	3.55	124.58	111.59

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
60	CA	1787	EDS	CAY-CAX-NAM-CBH
60	AA	1805	EDS	CBO-CBN-NAO-CBL
60	CA	1787	EDS	OAG-CBB-OAB-CAT
60	AA	1805	EDS	CBI-CBL-NAO-CBN

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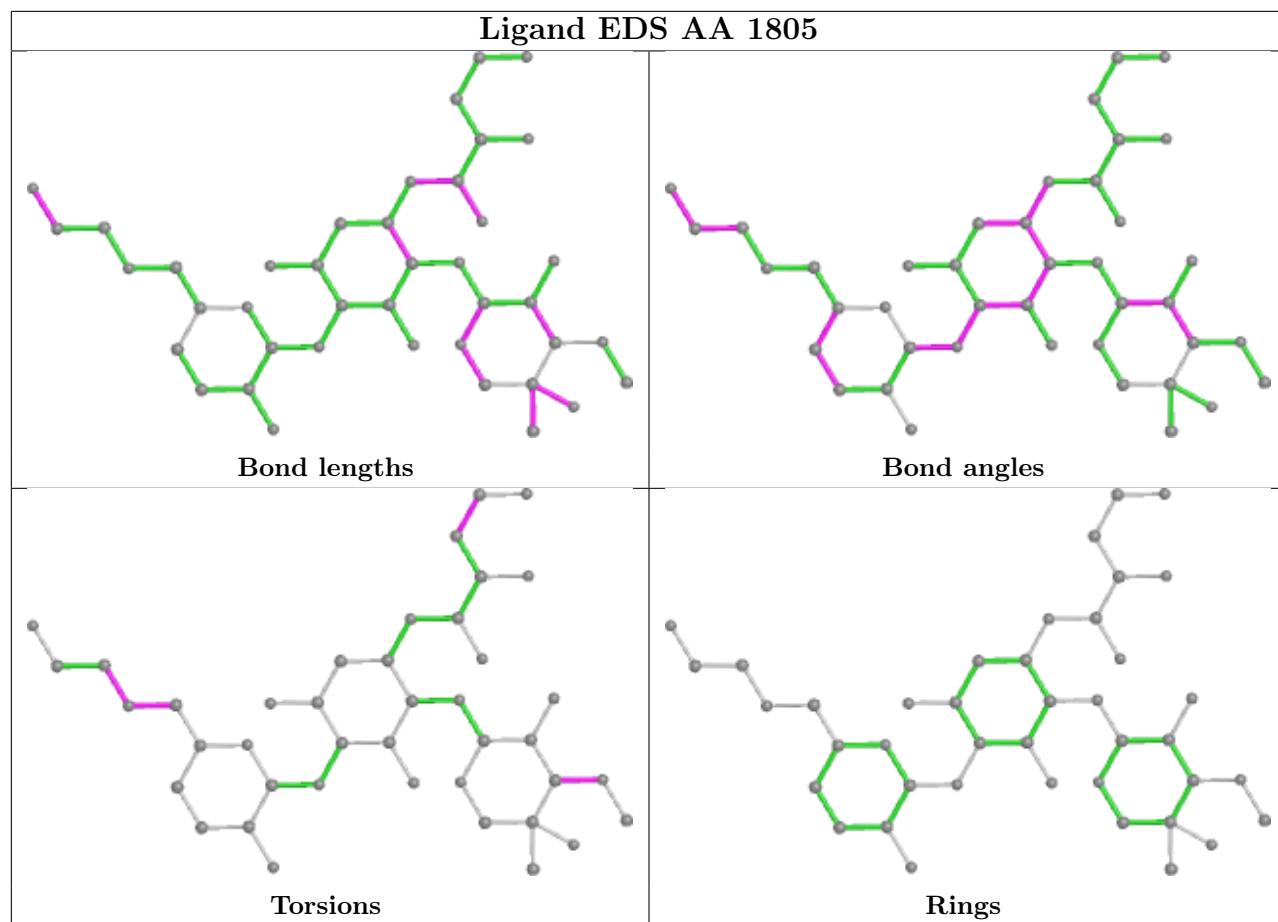
Mol	Chain	Res	Type	Atoms
60	AA	1805	EDS	CBG-CBK-CBM-NAP

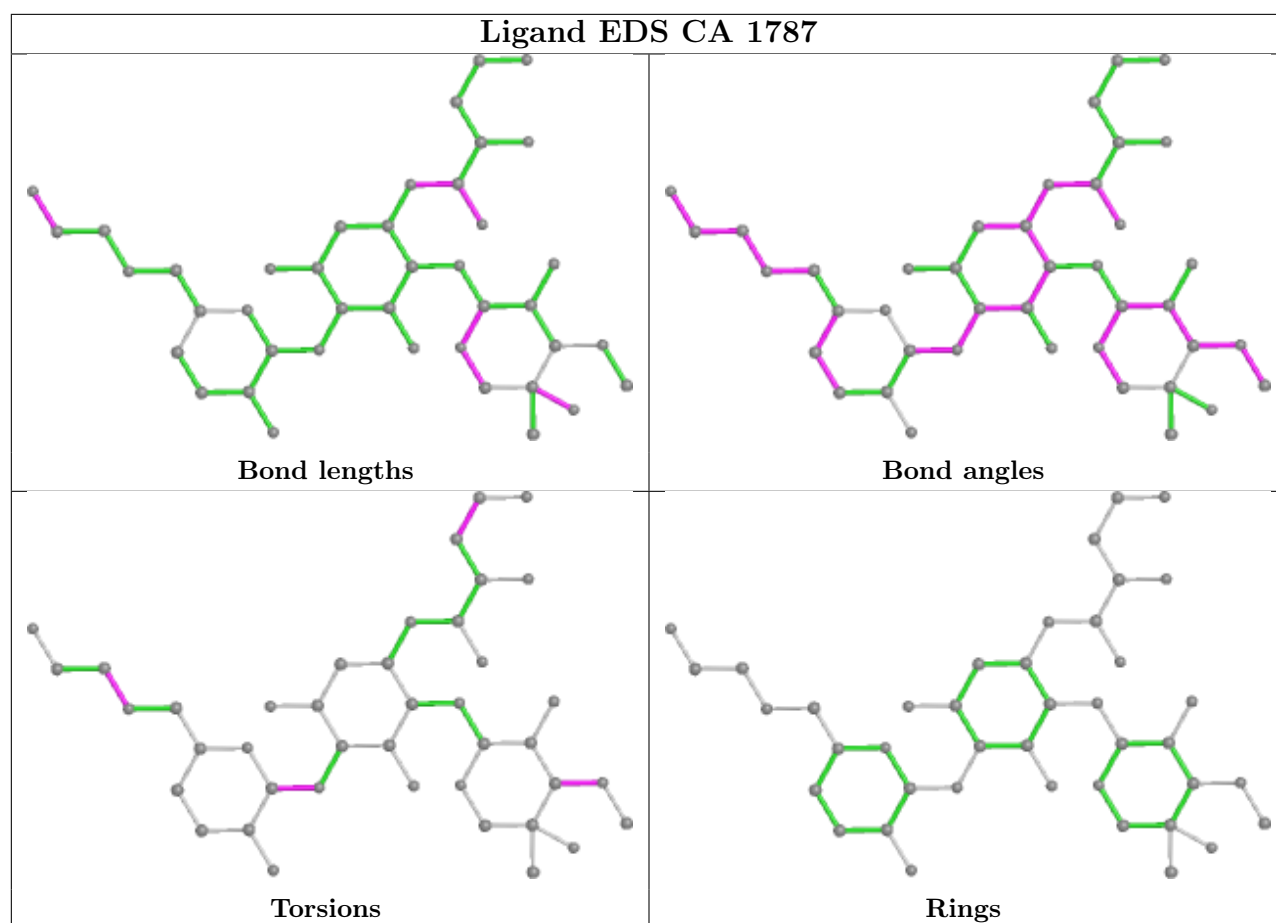
There are no ring outliers.

2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
60	AA	1805	EDS	2	0
60	CA	1787	EDS	1	0

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





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

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

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	1504/1520 (98%)	-0.39	25 (1%) 70 67	45, 87, 160, 209	0
1	CA	1504/1520 (98%)	-0.40	13 (0%) 84 84	41, 84, 187, 269	0
2	AB	218/256 (85%)	1.43	67 (30%) 0 0	101, 144, 193, 209	0
2	CB	234/256 (91%)	-0.17	5 (2%) 63 61	92, 134, 190, 208	0
3	AC	206/239 (86%)	2.09	97 (47%) 0 0	89, 116, 150, 163	0
3	CC	207/239 (86%)	1.55	72 (34%) 0 0	77, 109, 151, 174	0
4	AD	208/209 (99%)	0.04	3 (1%) 75 74	65, 80, 100, 111	0
4	CD	208/209 (99%)	0.34	18 (8%) 10 10	73, 93, 118, 130	0
5	AE	150/162 (92%)	0.88	31 (20%) 1 1	70, 91, 117, 132	0
5	CE	151/162 (93%)	-0.13	2 (1%) 77 76	63, 83, 110, 144	0
6	AF	101/101 (100%)	-0.52	0 100 100	69, 87, 102, 133	0
6	CF	101/101 (100%)	0.49	11 (10%) 5 5	68, 89, 110, 129	0
7	AG	155/156 (99%)	1.04	31 (20%) 1 1	90, 114, 148, 163	0
7	CG	155/156 (99%)	1.35	21 (13%) 3 3	90, 109, 144, 150	0
8	AH	138/138 (100%)	-0.15	2 (1%) 75 74	69, 95, 112, 129	0
8	CH	138/138 (100%)	-0.25	0 100 100	70, 87, 103, 110	0
9	AI	121/128 (94%)	0.05	5 (4%) 37 35	90, 141, 171, 181	0
9	CI	127/128 (99%)	0.29	11 (8%) 10 10	77, 134, 175, 186	0
10	AJ	98/105 (93%)	0.49	9 (9%) 9 9	87, 150, 182, 186	0
10	CJ	98/105 (93%)	2.33	49 (50%) 0 0	75, 151, 194, 200	0
11	AK	119/129 (92%)	0.24	5 (4%) 36 34	72, 89, 120, 186	0
11	CK	119/129 (92%)	1.85	48 (40%) 0 0	54, 90, 135, 188	0
12	AL	122/132 (92%)	1.02	24 (19%) 1 1	56, 70, 94, 129	0
12	CL	124/132 (93%)	0.45	5 (4%) 38 36	49, 64, 106, 170	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	116/126 (92%)	0.38	12 (10%) 6 6	84, 121, 142, 155	0
13	CM	119/126 (94%)	0.26	14 (11%) 4 4	68, 110, 127, 143	0
14	AN	60/61 (98%)	1.17	16 (26%) 0 0	92, 111, 123, 129	0
14	CN	60/61 (98%)	1.30	16 (26%) 0 0	75, 96, 112, 123	0
15	AO	88/89 (98%)	-0.40	0 100 100	68, 89, 116, 119	0
15	CO	88/89 (98%)	-0.30	3 (3%) 45 43	64, 86, 110, 123	0
16	AP	83/88 (94%)	-0.71	0 100 100	65, 77, 100, 140	0
16	CP	83/88 (94%)	0.31	5 (6%) 21 21	75, 88, 119, 176	0
17	AQ	99/105 (94%)	0.84	11 (11%) 5 5	65, 81, 105, 117	0
17	CQ	99/105 (94%)	1.65	40 (40%) 0 0	76, 88, 106, 117	0
18	AR	70/88 (79%)	-0.28	1 (1%) 75 74	70, 90, 121, 132	0
18	CR	70/88 (79%)	1.24	17 (24%) 0 0	67, 86, 131, 149	0
19	AS	78/93 (83%)	1.25	19 (24%) 0 0	106, 141, 172, 180	0
19	CS	78/93 (83%)	0.65	10 (12%) 3 3	85, 113, 165, 167	0
20	AT	99/106 (93%)	0.36	6 (6%) 21 20	71, 89, 135, 151	0
20	CT	99/106 (93%)	0.98	15 (15%) 2 2	78, 104, 140, 145	0
21	AU	24/27 (88%)	-0.24	0 100 100	90, 114, 134, 139	0
21	CU	25/27 (92%)	-0.30	1 (4%) 38 36	86, 96, 126, 130	0
22	AV	76/77 (98%)	-0.24	0 100 100	56, 97, 125, 154	0
22	CV	77/77 (100%)	-0.17	2 (2%) 56 52	43, 88, 118, 155	0
23	AW	76/76 (100%)	0.46	3 (3%) 39 37	51, 193, 217, 221	0
23	AY	19/76 (25%)	-0.17	0 100 100	75, 101, 161, 166	0
23	CW	76/76 (100%)	0.82	12 (15%) 2 2	48, 194, 225, 230	0
23	CY	21/76 (27%)	-0.12	0 100 100	63, 99, 162, 202	0
24	AX	12/24 (50%)	-0.20	0 100 100	64, 74, 143, 145	0
24	CX	12/24 (50%)	0.01	0 100 100	53, 60, 121, 127	0
25	B0	76/85 (89%)	0.65	7 (9%) 9 9	49, 69, 93, 149	0
25	D0	82/85 (96%)	0.46	7 (8%) 10 11	42, 57, 88, 102	0
26	B1	88/98 (89%)	1.18	19 (21%) 0 1	46, 65, 124, 140	0
26	D1	88/98 (89%)	1.35	20 (22%) 0 1	38, 60, 110, 120	0
27	B2	50/72 (69%)	0.38	6 (12%) 4 4	92, 120, 151, 164	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	D2	53/72 (73%)	0.12	1 (1%) 66 64	54, 69, 107, 120	0
28	B3	58/60 (96%)	1.09	12 (20%) 1 1	60, 74, 106, 109	0
28	D3	60/60 (100%)	0.45	6 (10%) 7 7	43, 57, 101, 113	0
29	B4	45/71 (63%)	0.79	8 (17%) 1 1	91, 152, 167, 176	0
29	D4	49/71 (69%)	-0.71	0 100 100	81, 130, 153, 160	0
30	B5	54/60 (90%)	0.82	7 (12%) 3 3	38, 65, 120, 134	0
30	D5	60/60 (100%)	0.50	7 (11%) 4 4	28, 64, 147, 159	0
31	B6	46/54 (85%)	-0.06	2 (4%) 35 33	68, 89, 104, 117	0
31	D6	47/54 (87%)	1.26	7 (14%) 2 2	67, 82, 116, 132	0
32	B7	48/49 (97%)	1.15	9 (18%) 1 1	38, 49, 78, 83	0
32	D7	48/49 (97%)	0.20	2 (4%) 36 34	29, 34, 68, 88	0
33	B8	63/65 (96%)	0.77	8 (12%) 3 3	49, 70, 86, 122	0
33	D8	62/65 (95%)	0.98	7 (11%) 5 5	41, 53, 71, 82	0
34	B9	37/37 (100%)	0.47	3 (8%) 12 11	77, 92, 106, 114	0
34	D9	37/37 (100%)	0.30	3 (8%) 12 11	59, 77, 98, 101	0
35	BA	2824/2839 (99%)	-0.25	23 (0%) 86 86	36, 63, 194, 265	0
35	DA	2824/2839 (99%)	-0.19	47 (1%) 70 67	27, 50, 193, 262	0
36	BB	120/122 (98%)	-0.57	0 100 100	76, 99, 132, 148	0
36	DB	119/122 (97%)	-0.52	0 100 100	53, 78, 113, 159	0
37	BC	190/229 (82%)	1.29	56 (29%) 0 0	161, 211, 232, 239	0
37	DC	190/229 (82%)	1.85	73 (38%) 0 0	166, 210, 231, 235	0
38	BD	273/276 (98%)	0.39	13 (4%) 30 29	34, 55, 77, 89	0
38	DD	275/276 (99%)	0.16	6 (2%) 62 59	28, 47, 73, 112	0
39	BE	204/206 (99%)	0.57	18 (8%) 10 10	41, 68, 120, 139	0
39	DE	204/206 (99%)	0.18	7 (3%) 45 43	27, 55, 101, 125	0
40	BF	206/210 (98%)	0.57	21 (10%) 6 6	34, 76, 149, 186	0
40	DF	208/210 (99%)	0.23	10 (4%) 30 29	29, 56, 138, 190	0
41	BG	178/182 (97%)	0.68	20 (11%) 5 5	84, 108, 143, 182	0
41	DG	181/182 (99%)	0.54	13 (7%) 15 15	67, 91, 134, 186	0
42	BH	159/180 (88%)	1.73	61 (38%) 0 0	117, 156, 198, 206	0
42	DH	165/180 (91%)	0.01	4 (2%) 59 55	57, 80, 107, 168	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BI	145/148 (97%)	0.44	14 (9%) 7 8	61, 99, 133, 152	0
43	DI	144/148 (97%)	0.39	8 (5%) 24 23	55, 140, 180, 195	0
44	BJ	0/173	-	-	-	-
44	DJ	0/173	-	-	-	-
45	BK	0/147	-	-	-	-
45	DK	0/147	-	-	-	-
46	BN	137/140 (97%)	1.12	39 (28%) 0 0	50, 81, 126, 143	0
46	DN	140/140 (100%)	-0.04	6 (4%) 35 33	42, 60, 102, 120	0
47	BO	122/122 (100%)	1.34	37 (30%) 0 0	46, 66, 87, 98	0
47	DO	122/122 (100%)	0.25	4 (3%) 46 44	38, 53, 77, 90	0
48	BP	144/150 (96%)	0.60	11 (7%) 13 13	44, 90, 126, 143	0
48	DP	146/150 (97%)	0.67	11 (7%) 14 13	32, 69, 100, 190	0
49	BQ	135/141 (95%)	1.33	34 (25%) 0 0	54, 85, 119, 154	0
49	DQ	136/141 (96%)	1.94	53 (38%) 0 0	45, 66, 106, 139	0
50	BR	116/118 (98%)	0.61	10 (8%) 10 10	46, 64, 103, 117	0
50	DR	117/118 (99%)	0.03	2 (1%) 70 67	37, 53, 73, 90	0
51	BS	102/112 (91%)	-0.18	3 (2%) 51 50	71, 102, 120, 127	0
51	DS	99/112 (88%)	-0.19	1 (1%) 82 82	62, 82, 104, 107	0
52	BT	132/146 (90%)	0.38	8 (6%) 21 20	54, 77, 131, 169	0
52	DT	137/146 (93%)	1.19	29 (21%) 0 1	48, 68, 157, 221	0
53	BU	117/118 (99%)	0.33	12 (10%) 6 6	44, 72, 113, 127	0
53	DU	117/118 (99%)	-0.07	2 (1%) 70 67	33, 53, 80, 106	0
54	BV	101/101 (100%)	0.38	8 (7%) 12 12	48, 110, 134, 183	0
54	DV	101/101 (100%)	0.51	8 (7%) 12 12	37, 81, 121, 153	0
55	BW	111/113 (98%)	0.53	8 (7%) 15 15	47, 61, 106, 123	0
55	DW	111/113 (98%)	0.30	8 (7%) 15 15	37, 46, 80, 135	0
56	BX	89/96 (92%)	0.65	11 (12%) 4 4	61, 82, 138, 159	0
56	DX	94/96 (97%)	0.22	3 (3%) 47 46	40, 55, 97, 140	0
57	BY	100/110 (90%)	0.95	18 (18%) 1 1	63, 105, 143, 160	0
57	DY	109/110 (99%)	0.26	9 (8%) 11 11	49, 76, 174, 200	0
58	BZ	176/206 (85%)	3.69	92 (52%) 0 0	92, 153, 201, 217	0
58	DZ	176/206 (85%)	5.18	156 (88%) 0 0	68, 128, 208, 216	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
All	All	21060/22694 (92%)	0.29	1875 (8%) 9 10	27, 80, 183, 269	0

The worst 5 of 1875 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
7	CG	84	ASN	29.5
58	DZ	106	GLY	20.4
58	BZ	154	ASP	19.6
7	CG	83	ALA	19.2
7	CG	85	TYR	17.8

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

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3397	1/1	-0.22	0.29	190,190,190,190	0
59	MG	AA	1713	1/1	-0.04	0.33	137,137,137,137	0
59	MG	BC	302	1/1	-0.04	0.28	171,171,171,171	0
59	MG	BA	3323	1/1	-0.01	0.34	159,159,159,159	0
59	MG	AW	105	1/1	0.01	0.72	170,170,170,170	0
59	MG	BA	3344	1/1	0.07	0.65	81,81,81,81	0
59	MG	CW	109	1/1	0.07	1.10	125,125,125,125	0
59	MG	CW	112	1/1	0.08	0.45	191,191,191,191	0
59	MG	CA	1675	1/1	0.10	0.91	77,77,77,77	0
59	MG	BA	3293	1/1	0.14	0.21	108,108,108,108	0
59	MG	AA	1756	1/1	0.16	0.86	107,107,107,107	0
59	MG	AA	1804	1/1	0.18	0.95	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3285	1/1	0.18	1.01	103,103,103,103	0
59	MG	BA	3437	1/1	0.20	0.16	126,126,126,126	0
59	MG	AW	114	1/1	0.25	0.48	193,193,193,193	0
59	MG	DA	3315	1/1	0.28	0.95	71,71,71,71	0
59	MG	DA	3203	1/1	0.30	0.89	57,57,57,57	0
59	MG	BA	3431	1/1	0.30	0.37	94,94,94,94	0
59	MG	CW	108	1/1	0.31	0.79	130,130,130,130	0
59	MG	CA	1668	1/1	0.32	0.34	75,75,75,75	0
59	MG	BA	3324	1/1	0.36	0.24	194,194,194,194	0
59	MG	BA	3351	1/1	0.39	0.27	116,116,116,116	0
59	MG	BA	3302	1/1	0.41	0.48	75,75,75,75	0
59	MG	CW	102	1/1	0.43	0.38	165,165,165,165	0
59	MG	AW	107	1/1	0.44	0.25	115,115,115,115	0
59	MG	DA	3007	1/1	0.44	0.68	77,77,77,77	0
59	MG	DO	202	1/1	0.45	1.27	86,86,86,86	0
59	MG	BA	3257	1/1	0.46	0.97	77,77,77,77	0
59	MG	AA	1611	1/1	0.46	0.34	87,87,87,87	0
59	MG	BA	3433	1/1	0.46	0.32	94,94,94,94	0
59	MG	BA	3222	1/1	0.47	0.35	78,78,78,78	0
59	MG	AA	1775	1/1	0.47	0.14	75,75,75,75	0
59	MG	DB	206	1/1	0.48	0.24	91,91,91,91	0
59	MG	AW	118	1/1	0.48	0.22	188,188,188,188	0
59	MG	DA	3326	1/1	0.49	0.23	68,68,68,68	0
59	MG	BA	3322	1/1	0.49	0.21	130,130,130,130	0
59	MG	BB	216	1/1	0.49	0.35	92,92,92,92	0
59	MG	BA	3301	1/1	0.50	0.25	115,115,115,115	0
59	MG	CA	1725	1/1	0.50	0.51	80,80,80,80	0
59	MG	CA	1620	1/1	0.51	0.54	105,105,105,105	0
59	MG	AW	104	1/1	0.51	1.21	171,171,171,171	0
59	MG	BA	3408	1/1	0.53	0.18	93,93,93,93	0
59	MG	CA	1627	1/1	0.54	0.62	49,49,49,49	0
59	MG	AA	1738	1/1	0.54	0.28	57,57,57,57	0
59	MG	DA	3374	1/1	0.55	0.35	65,65,65,65	0
59	MG	DB	202	1/1	0.55	0.26	83,83,83,83	0
59	MG	BA	3213	1/1	0.55	0.36	72,72,72,72	0
59	MG	DA	3230	1/1	0.55	0.80	98,98,98,98	0
59	MG	CA	1652	1/1	0.56	0.66	85,85,85,85	0
59	MG	AA	1650	1/1	0.56	0.30	80,80,80,80	0
59	MG	BA	3434	1/1	0.56	0.62	90,90,90,90	0
59	MG	CA	1683	1/1	0.56	0.23	74,74,74,74	0
59	MG	AA	1772	1/1	0.56	0.24	86,86,86,86	0
59	MG	DB	211	1/1	0.56	0.42	106,106,106,106	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3438	1/1	0.56	0.20	104,104,104,104	0
59	MG	BB	207	1/1	0.57	0.31	115,115,115,115	0
59	MG	DB	207	1/1	0.57	0.73	73,73,73,73	0
59	MG	AA	1808	1/1	0.58	0.43	65,65,65,65	0
59	MG	DA	3316	1/1	0.58	0.56	63,63,63,63	0
59	MG	AA	1677	1/1	0.58	0.26	72,72,72,72	0
59	MG	BB	217	1/1	0.59	0.29	98,98,98,98	0
59	MG	BA	3325	1/1	0.59	0.22	164,164,164,164	0
59	MG	CA	1700	1/1	0.59	0.35	87,87,87,87	0
59	MG	AA	1724	1/1	0.59	0.22	77,77,77,77	0
59	MG	DA	3143	1/1	0.60	0.28	67,67,67,67	0
59	MG	AA	1740	1/1	0.61	0.07	114,114,114,114	0
59	MG	CA	1643	1/1	0.61	0.19	100,100,100,100	0
59	MG	CA	1792	1/1	0.61	0.36	76,76,76,76	0
59	MG	BA	3218	1/1	0.61	0.22	77,77,77,77	0
59	MG	AA	1697	1/1	0.62	0.50	76,76,76,76	0
59	MG	BA	3442	1/1	0.62	0.38	57,57,57,57	0
59	MG	AA	1759	1/1	0.62	0.18	93,93,93,93	0
59	MG	DA	3348	1/1	0.62	1.02	72,72,72,72	0
59	MG	AW	117	1/1	0.62	0.60	125,125,125,125	0
59	MG	AA	1760	1/1	0.63	0.70	105,105,105,105	0
59	MG	DA	3337	1/1	0.63	0.34	67,67,67,67	0
59	MG	BS	201	1/1	0.63	0.27	97,97,97,97	0
59	MG	BA	3007	1/1	0.64	0.19	69,69,69,69	0
59	MG	BA	3456	1/1	0.64	0.55	73,73,73,73	0
59	MG	CA	1690	1/1	0.64	0.65	84,84,84,84	0
59	MG	CW	104	1/1	0.64	0.27	174,174,174,174	0
59	MG	AA	1674	1/1	0.64	0.49	61,61,61,61	0
59	MG	DA	3210	1/1	0.64	0.36	71,71,71,71	0
59	MG	BA	3157	1/1	0.65	0.26	63,63,63,63	0
59	MG	BA	3364	1/1	0.65	0.48	62,62,62,62	0
59	MG	BA	3224	1/1	0.65	0.41	62,62,62,62	0
59	MG	CE	201	1/1	0.66	0.91	84,84,84,84	0
59	MG	AA	1707	1/1	0.66	0.17	87,87,87,87	0
59	MG	CW	103	1/1	0.66	0.36	178,178,178,178	0
59	MG	AW	110	1/1	0.66	0.58	134,134,134,134	0
59	MG	DA	3163	1/1	0.66	0.88	79,79,79,79	0
59	MG	BA	3405	1/1	0.66	0.77	80,80,80,80	0
59	MG	DA	3342	1/1	0.66	0.50	59,59,59,59	0
59	MG	BB	208	1/1	0.67	0.15	83,83,83,83	0
59	MG	BA	3142	1/1	0.67	0.70	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3206	1/1	0.67	0.43	82,82,82,82	0
59	MG	CA	1640	1/1	0.67	0.25	91,91,91,91	0
59	MG	BA	3398	1/1	0.67	0.25	104,104,104,104	0
59	MG	BA	3003	1/1	0.67	0.33	84,84,84,84	0
59	MG	AA	1763	1/1	0.67	0.14	66,66,66,66	0
59	MG	DA	3320	1/1	0.67	0.45	67,67,67,67	0
59	MG	CA	1602	1/1	0.67	0.54	72,72,72,72	0
59	MG	BA	3080	1/1	0.68	0.35	43,43,43,43	0
59	MG	BA	3132	1/1	0.68	0.44	72,72,72,72	0
59	MG	BA	3331	1/1	0.68	0.22	88,88,88,88	0
59	MG	AA	1645	1/1	0.68	0.43	79,79,79,79	0
59	MG	DA	3356	1/1	0.68	0.63	68,68,68,68	0
59	MG	BA	3011	1/1	0.68	1.51	65,65,65,65	0
59	MG	BA	3353	1/1	0.68	1.11	75,75,75,75	0
59	MG	DA	3244	1/1	0.68	0.15	147,147,147,147	0
59	MG	CA	1695	1/1	0.68	0.43	59,59,59,59	0
59	MG	CA	1636	1/1	0.68	0.26	69,69,69,69	0
59	MG	BA	3059	1/1	0.68	0.35	65,65,65,65	0
59	MG	CW	106	1/1	0.69	0.48	133,133,133,133	0
59	MG	DA	3318	1/1	0.69	0.28	67,67,67,67	0
59	MG	AA	1801	1/1	0.69	0.36	69,69,69,69	0
59	MG	BA	3389	1/1	0.69	0.47	74,74,74,74	0
59	MG	AW	115	1/1	0.69	0.39	193,193,193,193	0
59	MG	AV	103	1/1	0.69	0.36	93,93,93,93	0
59	MG	CA	1733	1/1	0.69	0.11	81,81,81,81	0
59	MG	CA	1742	1/1	0.69	0.66	59,59,59,59	0
59	MG	CA	1766	1/1	0.69	0.15	69,69,69,69	0
59	MG	CA	1646	1/1	0.69	0.80	72,72,72,72	0
59	MG	BA	3306	1/1	0.69	0.72	56,56,56,56	0
59	MG	BA	3187	1/1	0.69	0.38	93,93,93,93	0
59	MG	CA	1619	1/1	0.69	0.40	66,66,66,66	0
59	MG	BA	3108	1/1	0.69	0.45	69,69,69,69	0
59	MG	BX	101	1/1	0.70	0.23	48,48,48,48	0
59	MG	AA	1681	1/1	0.70	0.55	76,76,76,76	0
59	MG	BA	3145	1/1	0.70	0.60	62,62,62,62	0
59	MG	AT	201	1/1	0.70	0.54	75,75,75,75	0
59	MG	BA	3303	1/1	0.70	0.34	73,73,73,73	0
59	MG	BA	3427	1/1	0.70	0.44	84,84,84,84	0
59	MG	CA	1706	1/1	0.70	0.25	61,61,61,61	0
59	MG	BA	3305	1/1	0.70	0.37	77,77,77,77	0
59	MG	CA	1642	1/1	0.70	0.17	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3367	1/1	0.70	0.27	61,61,61,61	0
59	MG	BA	3168	1/1	0.70	0.23	89,89,89,89	0
59	MG	AA	1770	1/1	0.70	0.41	74,74,74,74	0
59	MG	CA	1648	1/1	0.70	0.18	96,96,96,96	0
59	MG	DA	3224	1/1	0.70	0.49	40,40,40,40	0
59	MG	CA	1649	1/1	0.70	0.74	76,76,76,76	0
59	MG	BA	3198	1/1	0.70	0.14	54,54,54,54	0
59	MG	AA	1777	1/1	0.71	0.90	81,81,81,81	0
59	MG	BA	3366	1/1	0.71	0.12	89,89,89,89	0
59	MG	CW	107	1/1	0.71	0.27	145,145,145,145	0
59	MG	DA	3353	1/1	0.71	0.32	51,51,51,51	0
59	MG	BA	3254	1/1	0.71	0.43	89,89,89,89	0
59	MG	CA	1650	1/1	0.71	0.34	78,78,78,78	0
59	MG	BA	3271	1/1	0.72	0.60	61,61,61,61	0
59	MG	CA	1677	1/1	0.72	0.41	68,68,68,68	0
59	MG	DA	3382	1/1	0.72	0.47	80,80,80,80	0
59	MG	BA	3014	1/1	0.72	0.68	55,55,55,55	0
59	MG	BA	3025	1/1	0.72	0.20	61,61,61,61	0
59	MG	CA	1762	1/1	0.72	0.28	57,57,57,57	0
59	MG	CA	1660	1/1	0.72	0.21	65,65,65,65	0
59	MG	AA	1706	1/1	0.72	0.24	86,86,86,86	0
59	MG	DA	3331	1/1	0.73	0.18	99,99,99,99	0
59	MG	CA	1703	1/1	0.73	0.12	47,47,47,47	0
59	MG	AA	1670	1/1	0.73	0.40	68,68,68,68	0
59	MG	CA	1714	1/1	0.73	0.18	67,67,67,67	0
59	MG	BA	3051	1/1	0.73	0.20	66,66,66,66	0
59	MG	AL	201	1/1	0.73	0.94	61,61,61,61	0
59	MG	CA	1678	1/1	0.73	0.39	78,78,78,78	0
59	MG	DA	3246	1/1	0.73	0.45	58,58,58,58	0
59	MG	DA	3307	1/1	0.73	0.94	64,64,64,64	0
59	MG	CA	1761	1/1	0.73	0.26	66,66,66,66	0
59	MG	AA	1700	1/1	0.73	0.34	78,78,78,78	0
59	MG	AW	113	1/1	0.73	0.42	96,96,96,96	0
59	MG	AA	1660	1/1	0.73	1.08	84,84,84,84	0
59	MG	AA	1727	1/1	0.73	0.21	63,63,63,63	0
59	MG	CW	101	1/1	0.74	0.34	101,101,101,101	0
59	MG	BF	302	1/1	0.74	0.34	61,61,61,61	0
59	MG	DA	3322	1/1	0.74	0.20	56,56,56,56	0
59	MG	DA	3182	1/1	0.74	0.29	56,56,56,56	0
59	MG	DA	3194	1/1	0.74	0.20	62,62,62,62	0
59	MG	DA	3258	1/1	0.74	0.44	65,65,65,65	0
59	MG	AA	1675	1/1	0.74	0.27	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3192	1/1	0.74	0.25	80,80,80,80	0
59	MG	AD	301	1/1	0.74	0.44	69,69,69,69	0
59	MG	CA	1758	1/1	0.75	0.20	67,67,67,67	0
59	MG	BA	3400	1/1	0.75	0.44	59,59,59,59	0
59	MG	DA	3280	1/1	0.75	0.44	46,46,46,46	0
59	MG	DA	3152	1/1	0.75	0.44	61,61,61,61	0
59	MG	DA	3213	1/1	0.75	0.30	71,71,71,71	0
59	MG	AA	1683	1/1	0.75	0.31	74,74,74,74	0
59	MG	CA	1686	1/1	0.75	0.19	77,77,77,77	0
59	MG	AW	119	1/1	0.75	0.63	194,194,194,194	0
59	MG	AA	1686	1/1	0.76	0.13	86,86,86,86	0
59	MG	CA	1735	1/1	0.76	0.36	63,63,63,63	0
59	MG	BA	3365	1/1	0.76	0.33	54,54,54,54	0
59	MG	CA	1749	1/1	0.76	0.24	60,60,60,60	0
59	MG	BA	3024	1/1	0.76	0.33	82,82,82,82	0
59	MG	DA	3232	1/1	0.76	0.13	93,93,93,93	0
59	MG	BA	3093	1/1	0.76	0.34	75,75,75,75	0
59	MG	BA	3162	1/1	0.76	0.32	55,55,55,55	0
59	MG	DA	3008	1/1	0.76	0.52	76,76,76,76	0
59	MG	AA	1619	1/1	0.76	1.15	83,83,83,83	0
59	MG	DA	3299	1/1	0.76	0.39	63,63,63,63	0
59	MG	CA	1637	1/1	0.76	0.84	71,71,71,71	0
59	MG	CA	1665	1/1	0.76	0.30	72,72,72,72	0
59	MG	AA	1765	1/1	0.76	0.19	84,84,84,84	0
59	MG	CA	1674	1/1	0.76	0.49	69,69,69,69	0
59	MG	BA	3356	1/1	0.76	0.19	69,69,69,69	0
59	MG	BA	3457	1/1	0.77	0.52	82,82,82,82	0
59	MG	AA	1718	1/1	0.77	0.24	89,89,89,89	0
59	MG	DA	3004	1/1	0.77	0.28	89,89,89,89	0
59	MG	DA	3005	1/1	0.77	0.72	56,56,56,56	0
59	MG	BA	3180	1/1	0.77	0.14	79,79,79,79	0
59	MG	CA	1743	1/1	0.77	0.18	67,67,67,67	0
59	MG	DA	3383	1/1	0.77	0.37	92,92,92,92	0
59	MG	BB	211	1/1	0.77	0.26	74,74,74,74	0
59	MG	BA	3186	1/1	0.77	0.41	65,65,65,65	0
59	MG	AW	112	1/1	0.77	0.38	112,112,112,112	0
59	MG	AA	1712	1/1	0.77	0.07	67,67,67,67	0
59	MG	BA	3230	1/1	0.77	0.32	89,89,89,89	0
59	MG	BA	3313	1/1	0.78	0.64	68,68,68,68	0
59	MG	DA	3321	1/1	0.78	0.23	63,63,63,63	0
59	MG	CA	1750	1/1	0.78	0.31	70,70,70,70	0
59	MG	CA	1751	1/1	0.78	0.16	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AV	102	1/1	0.78	0.60	74,74,74,74	0
59	MG	DA	3211	1/1	0.78	0.32	55,55,55,55	0
59	MG	BA	3350	1/1	0.78	0.45	91,91,91,91	0
59	MG	CA	1721	1/1	0.78	0.20	81,81,81,81	0
59	MG	DA	3350	1/1	0.78	0.37	58,58,58,58	0
59	MG	BQ	201	1/1	0.78	0.23	51,51,51,51	0
59	MG	CA	1783	1/1	0.78	0.23	64,64,64,64	0
59	MG	DA	3357	1/1	0.78	0.22	63,63,63,63	0
59	MG	CA	1732	1/1	0.78	0.24	85,85,85,85	0
59	MG	BA	3126	1/1	0.78	0.45	61,61,61,61	0
59	MG	DA	3105	1/1	0.78	0.47	40,40,40,40	0
59	MG	DA	3136	1/1	0.78	0.49	46,46,46,46	0
59	MG	CI	201	1/1	0.78	0.29	86,86,86,86	0
59	MG	AA	1743	1/1	0.78	0.74	80,80,80,80	0
59	MG	DA	3160	1/1	0.78	0.18	73,73,73,73	0
59	MG	AW	101	1/1	0.78	0.81	154,154,154,154	0
59	MG	BA	3327	1/1	0.78	0.36	109,109,109,109	0
59	MG	DV	201	1/1	0.78	1.76	100,100,100,100	0
59	MG	BA	3171	1/1	0.79	0.26	76,76,76,76	0
59	MG	BA	3172	1/1	0.79	0.13	62,62,62,62	0
59	MG	DA	3086	1/1	0.79	0.47	50,50,50,50	0
59	MG	CV	103	1/1	0.79	0.30	80,80,80,80	0
59	MG	AA	1676	1/1	0.79	0.90	88,88,88,88	0
59	MG	BA	3216	1/1	0.79	0.20	88,88,88,88	0
59	MG	CA	1671	1/1	0.79	0.10	106,106,106,106	0
59	MG	AA	1604	1/1	0.79	0.27	64,64,64,64	0
59	MG	B1	101	1/1	0.79	0.34	52,52,52,52	0
59	MG	DA	3166	1/1	0.79	0.40	63,63,63,63	0
59	MG	CA	1605	1/1	0.79	0.24	69,69,69,69	0
59	MG	CA	1608	1/1	0.79	0.23	75,75,75,75	0
59	MG	CA	1775	1/1	0.79	0.39	76,76,76,76	0
59	MG	BA	3399	1/1	0.79	0.54	89,89,89,89	0
59	MG	DA	3002	1/1	0.79	0.35	58,58,58,58	0
59	MG	BA	3357	1/1	0.79	0.50	63,63,63,63	0
59	MG	CA	1794	1/1	0.79	0.39	66,66,66,66	0
59	MG	CA	1793	1/1	0.80	0.43	75,75,75,75	0
59	MG	CA	1689	1/1	0.80	0.40	66,66,66,66	0
59	MG	BA	3340	1/1	0.80	0.30	62,62,62,62	0
59	MG	CA	1664	1/1	0.80	0.48	75,75,75,75	0
59	MG	BA	3317	1/1	0.80	0.29	99,99,99,99	0
59	MG	BA	3385	1/1	0.80	0.71	84,84,84,84	0
59	MG	DA	3373	1/1	0.80	0.55	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3167	1/1	0.80	0.28	77,77,77,77	0
59	MG	AA	1754	1/1	0.80	0.20	77,77,77,77	0
59	MG	AA	1776	1/1	0.80	0.51	72,72,72,72	0
59	MG	DA	3387	1/1	0.80	1.10	102,102,102,102	0
59	MG	AA	1634	1/1	0.80	0.43	69,69,69,69	0
59	MG	BA	3286	1/1	0.80	0.42	69,69,69,69	0
59	MG	BA	3086	1/1	0.80	0.57	61,61,61,61	0
59	MG	DA	3332	1/1	0.80	0.24	68,68,68,68	0
59	MG	CA	1656	1/1	0.80	0.17	74,74,74,74	0
59	MG	DA	3256	1/1	0.80	0.67	59,59,59,59	0
59	MG	BA	3420	1/1	0.81	0.23	77,77,77,77	0
59	MG	CW	110	1/1	0.81	0.30	197,197,197,197	0
59	MG	AA	1745	1/1	0.81	0.46	77,77,77,77	0
59	MG	CA	1767	1/1	0.81	0.36	67,67,67,67	0
59	MG	BA	3233	1/1	0.81	0.17	69,69,69,69	0
59	MG	CA	1720	1/1	0.81	0.32	67,67,67,67	0
59	MG	BC	301	1/1	0.81	0.19	166,166,166,166	0
59	MG	CA	1673	1/1	0.81	0.13	92,92,92,92	0
59	MG	DA	3014	1/1	0.81	0.43	55,55,55,55	0
59	MG	CA	1729	1/1	0.81	0.23	77,77,77,77	0
59	MG	AA	1764	1/1	0.81	0.46	79,79,79,79	0
59	MG	BA	3256	1/1	0.81	0.67	79,79,79,79	0
59	MG	BA	3152	1/1	0.81	0.39	46,46,46,46	0
59	MG	AW	106	1/1	0.81	0.39	149,149,149,149	0
59	MG	BA	3182	1/1	0.81	0.13	69,69,69,69	0
59	MG	BX	102	1/1	0.81	0.20	47,47,47,47	0
59	MG	AA	1789	1/1	0.81	0.23	126,126,126,126	0
59	MG	AX	102	1/1	0.81	0.25	79,79,79,79	0
59	MG	DA	3190	1/1	0.81	0.66	61,61,61,61	0
59	MG	BA	3229	1/1	0.81	0.38	54,54,54,54	0
59	MG	BA	3413	1/1	0.81	0.62	59,59,59,59	0
59	MG	B1	102	1/1	0.82	0.38	67,67,67,67	0
59	MG	BA	3002	1/1	0.82	0.31	60,60,60,60	0
59	MG	AA	1757	1/1	0.82	0.58	60,60,60,60	0
59	MG	AA	1602	1/1	0.82	0.37	56,56,56,56	0
59	MG	BA	3439	1/1	0.82	0.28	69,69,69,69	0
59	MG	CA	1765	1/1	0.82	0.57	60,60,60,60	0
59	MG	CA	1623	1/1	0.82	0.19	66,66,66,66	0
59	MG	DA	3116	1/1	0.82	0.39	41,41,41,41	0
59	MG	BA	3227	1/1	0.82	0.36	78,78,78,78	0
59	MG	AA	1679	1/1	0.82	0.36	59,59,59,59	0
59	MG	BA	3113	1/1	0.82	0.32	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1692	1/1	0.82	0.13	96,96,96,96	0
59	MG	DA	3333	1/1	0.82	0.16	57,57,57,57	0
59	MG	BA	3388	1/1	0.82	0.38	59,59,59,59	0
59	MG	AA	1654	1/1	0.82	0.61	79,79,79,79	0
59	MG	DA	3176	1/1	0.82	0.47	70,70,70,70	0
59	MG	BA	3022	1/1	0.82	0.49	61,61,61,61	0
59	MG	BB	215	1/1	0.82	0.36	76,76,76,76	0
59	MG	DA	3355	1/1	0.82	0.20	39,39,39,39	0
59	MG	CA	1647	1/1	0.82	0.44	67,67,67,67	0
59	MG	CA	1716	1/1	0.82	0.30	80,80,80,80	0
59	MG	BA	3133	1/1	0.82	0.78	94,94,94,94	0
59	MG	DA	3208	1/1	0.82	0.38	63,63,63,63	0
59	MG	AA	1752	1/1	0.82	0.34	64,64,64,64	0
59	MG	DA	3380	1/1	0.82	0.27	59,59,59,59	0
59	MG	BA	3143	1/1	0.82	0.29	58,58,58,58	0
59	MG	BA	3339	1/1	0.82	0.22	58,58,58,58	0
59	MG	AA	1647	1/1	0.82	0.67	95,95,95,95	0
59	MG	BF	303	1/1	0.82	0.22	42,42,42,42	0
59	MG	BA	3199	1/1	0.82	0.18	60,60,60,60	0
59	MG	BA	3203	1/1	0.82	0.50	58,58,58,58	0
59	MG	AA	1666	1/1	0.82	0.29	58,58,58,58	0
59	MG	BA	3352	1/1	0.82	0.40	66,66,66,66	0
59	MG	DA	3003	1/1	0.82	0.43	63,63,63,63	0
59	MG	CA	1741	1/1	0.83	0.46	57,57,57,57	0
59	MG	AA	1794	1/1	0.83	1.00	103,103,103,103	0
59	MG	AA	1656	1/1	0.83	0.35	102,102,102,102	0
59	MG	BA	3424	1/1	0.83	0.32	52,52,52,52	0
59	MG	CA	1644	1/1	0.83	0.27	75,75,75,75	0
59	MG	DA	3344	1/1	0.83	0.28	43,43,43,43	0
59	MG	BA	3263	1/1	0.83	0.48	60,60,60,60	0
59	MG	DA	3064	1/1	0.83	0.50	32,32,32,32	0
59	MG	CA	1753	1/1	0.83	0.31	82,82,82,82	0
59	MG	CA	1754	1/1	0.83	0.47	53,53,53,53	0
59	MG	DA	3111	1/1	0.83	0.38	28,28,28,28	0
59	MG	AA	1710	1/1	0.83	0.21	53,53,53,53	0
59	MG	DA	3124	1/1	0.83	0.44	61,61,61,61	0
59	MG	BA	3276	1/1	0.83	0.42	70,70,70,70	0
59	MG	DA	3274	1/1	0.83	0.24	45,45,45,45	0
59	MG	BA	3096	1/1	0.83	0.28	47,47,47,47	0
59	MG	AA	1761	1/1	0.83	0.48	52,52,52,52	0
59	MG	AA	1726	1/1	0.83	0.39	72,72,72,72	0
59	MG	BA	3219	1/1	0.83	0.08	181,181,181,181	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	CA	1772	1/1	0.83	0.52	49,49,49,49	0
59	MG	BA	3255	1/1	0.83	0.58	85,85,85,85	0
59	MG	DA	3181	1/1	0.83	0.10	56,56,56,56	0
59	MG	D2	102	1/1	0.83	0.30	35,35,35,35	0
59	MG	DA	3001	1/1	0.83	0.70	71,71,71,71	0
59	MG	BA	3329	1/1	0.83	0.32	50,50,50,50	0
59	MG	CA	1614	1/1	0.84	0.16	65,65,65,65	0
59	MG	BA	3409	1/1	0.84	0.41	61,61,61,61	0
59	MG	BA	3231	1/1	0.84	0.40	55,55,55,55	0
59	MG	BA	3418	1/1	0.84	0.37	61,61,61,61	0
59	MG	BA	3232	1/1	0.84	0.41	74,74,74,74	0
59	MG	AA	1617	1/1	0.84	0.37	81,81,81,81	0
59	MG	AA	1672	1/1	0.84	0.31	58,58,58,58	0
59	MG	BA	3338	1/1	0.84	0.52	89,89,89,89	0
59	MG	BA	3019	1/1	0.84	0.27	68,68,68,68	0
59	MG	BA	3221	1/1	0.84	0.28	87,87,87,87	0
59	MG	CA	1681	1/1	0.84	0.65	69,69,69,69	0
59	MG	BA	3392	1/1	0.84	0.68	83,83,83,83	0
59	MG	AA	1705	1/1	0.84	0.17	83,83,83,83	0
59	MG	BU	205	1/1	0.84	0.42	57,57,57,57	0
59	MG	DA	3233	1/1	0.84	0.33	53,53,53,53	0
59	MG	BA	3116	1/1	0.84	0.49	69,69,69,69	0
59	MG	BA	3125	1/1	0.84	0.20	65,65,65,65	0
59	MG	DA	3366	1/1	0.84	0.58	67,67,67,67	0
59	MG	BA	3206	1/1	0.84	0.32	50,50,50,50	0
59	MG	DA	3140	1/1	0.84	0.52	43,43,43,43	0
59	MG	DA	3264	1/1	0.84	0.48	64,64,64,64	0
59	MG	DA	3271	1/1	0.84	0.15	61,61,61,61	0
59	MG	CA	1756	1/1	0.84	0.27	72,72,72,72	0
59	MG	BA	3280	1/1	0.84	0.13	107,107,107,107	0
59	MG	CA	1655	1/1	0.84	0.55	57,57,57,57	0
59	MG	DA	3304	1/1	0.84	0.20	70,70,70,70	0
59	MG	DA	3162	1/1	0.84	0.21	53,53,53,53	0
59	MG	DA	3311	1/1	0.84	0.32	70,70,70,70	0
59	MG	AA	1696	1/1	0.84	0.19	81,81,81,81	0
59	MG	CW	111	1/1	0.84	1.21	75,75,75,75	0
59	MG	DA	3317	1/1	0.84	0.31	52,52,52,52	0
59	MG	CA	1791	1/1	0.85	0.39	78,78,78,78	0
59	MG	BA	3015	1/1	0.85	0.36	37,37,37,37	0
59	MG	AA	1783	1/1	0.85	0.84	74,74,74,74	0
59	MG	AA	1788	1/1	0.85	0.45	94,94,94,94	0
59	MG	CA	1796	1/1	0.85	0.52	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3225	1/1	0.85	0.46	37,37,37,37	0
59	MG	CA	1682	1/1	0.85	0.22	67,67,67,67	0
59	MG	DA	3108	1/1	0.85	0.27	48,48,48,48	0
59	MG	BA	3156	1/1	0.85	0.25	78,78,78,78	0
59	MG	CA	1747	1/1	0.85	0.36	40,40,40,40	0
59	MG	AE	201	1/1	0.85	0.17	86,86,86,86	0
59	MG	BB	201	1/1	0.85	0.32	87,87,87,87	0
59	MG	BA	3412	1/1	0.85	0.27	64,64,64,64	0
59	MG	DA	3261	1/1	0.85	0.57	50,50,50,50	0
59	MG	AA	1721	1/1	0.85	0.19	63,63,63,63	0
59	MG	CA	1609	1/1	0.85	0.17	69,69,69,69	0
59	MG	BB	209	1/1	0.85	0.32	109,109,109,109	0
59	MG	AA	1601	1/1	0.85	0.70	73,73,73,73	0
59	MG	AA	1742	1/1	0.85	0.10	72,72,72,72	0
59	MG	CA	1707	1/1	0.85	0.38	53,53,53,53	0
59	MG	DA	3169	1/1	0.85	0.26	37,37,37,37	0
59	MG	BA	3332	1/1	0.85	0.40	75,75,75,75	0
59	MG	DA	3391	1/1	0.85	0.21	61,61,61,61	0
59	MG	BA	3079	1/1	0.85	0.41	65,65,65,65	0
59	MG	CA	1669	1/1	0.85	0.52	78,78,78,78	0
59	MG	BA	3013	1/1	0.85	0.42	62,62,62,62	0
59	MG	BA	3177	1/1	0.85	0.08	58,58,58,58	0
59	MG	DA	3195	1/1	0.85	0.36	52,52,52,52	0
59	MG	AA	1733	1/1	0.85	0.41	67,67,67,67	0
59	MG	BA	3071	1/1	0.86	0.53	51,51,51,51	0
59	MG	BA	3287	1/1	0.86	0.20	51,51,51,51	0
59	MG	DA	3301	1/1	0.86	0.26	136,136,136,136	0
59	MG	CA	1708	1/1	0.86	0.38	55,55,55,55	0
59	MG	DA	3141	1/1	0.86	0.23	40,40,40,40	0
59	MG	BA	3012	1/1	0.86	0.30	66,66,66,66	0
59	MG	DA	3145	1/1	0.86	0.28	64,64,64,64	0
59	MG	DA	3148	1/1	0.86	0.33	44,44,44,44	0
59	MG	AV	106	1/1	0.86	0.30	96,96,96,96	0
59	MG	AX	101	1/1	0.86	0.52	71,71,71,71	0
59	MG	AA	1797	1/1	0.86	0.28	73,73,73,73	0
59	MG	AA	1747	1/1	0.86	0.25	68,68,68,68	0
59	MG	CA	1661	1/1	0.86	0.36	56,56,56,56	0
59	MG	BA	3248	1/1	0.86	0.41	54,54,54,54	0
59	MG	DA	3328	1/1	0.86	0.14	155,155,155,155	0
59	MG	BA	3107	1/1	0.86	0.42	53,53,53,53	0
59	MG	CA	1667	1/1	0.86	0.47	62,62,62,62	0
59	MG	CA	1740	1/1	0.86	0.40	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3163	1/1	0.86	0.16	81,81,81,81	0
59	MG	AA	1694	1/1	0.86	0.26	77,77,77,77	0
59	MG	BA	3367	1/1	0.86	0.20	85,85,85,85	0
59	MG	BA	3371	1/1	0.86	0.47	68,68,68,68	0
59	MG	CA	1615	1/1	0.86	0.26	56,56,56,56	0
59	MG	BA	3381	1/1	0.86	0.30	53,53,53,53	0
59	MG	BA	3383	1/1	0.86	0.25	35,35,35,35	0
59	MG	AA	1648	1/1	0.86	0.12	81,81,81,81	0
59	MG	BA	3258	1/1	0.86	0.68	69,69,69,69	0
59	MG	DA	3363	1/1	0.86	0.30	48,48,48,48	0
59	MG	AW	116	1/1	0.86	0.86	76,76,76,76	0
59	MG	BA	3028	1/1	0.86	0.42	23,23,23,23	0
59	MG	DA	3372	1/1	0.86	0.21	68,68,68,68	0
59	MG	DA	3231	1/1	0.86	0.20	71,71,71,71	0
59	MG	CA	1638	1/1	0.86	0.23	75,75,75,75	0
59	MG	BA	3328	1/1	0.86	0.93	80,80,80,80	0
59	MG	DA	3234	1/1	0.86	0.64	72,72,72,72	0
59	MG	BA	3275	1/1	0.86	0.38	45,45,45,45	0
59	MG	AA	1603	1/1	0.86	0.09	65,65,65,65	0
59	MG	DA	3249	1/1	0.86	0.27	68,68,68,68	0
59	MG	BA	3278	1/1	0.86	0.38	86,86,86,86	0
59	MG	DA	3103	1/1	0.86	0.92	59,59,59,59	0
59	MG	CA	1699	1/1	0.86	0.15	66,66,66,66	0
59	MG	AW	109	1/1	0.86	0.26	154,154,154,154	0
59	MG	BA	3063	1/1	0.86	0.35	46,46,46,46	0
59	MG	CA	1705	1/1	0.86	0.48	46,46,46,46	0
59	MG	AW	111	1/1	0.87	0.93	139,139,139,139	0
59	MG	CA	1633	1/1	0.87	0.29	61,61,61,61	0
59	MG	CA	1672	1/1	0.87	0.14	94,94,94,94	0
59	MG	BA	3292	1/1	0.87	0.30	48,48,48,48	0
59	MG	AA	1644	1/1	0.87	0.46	50,50,50,50	0
59	MG	AA	1748	1/1	0.87	0.39	98,98,98,98	0
59	MG	AA	1774	1/1	0.87	0.35	61,61,61,61	0
59	MG	BA	3169	1/1	0.87	0.34	49,49,49,49	0
59	MG	AA	1658	1/1	0.87	0.32	63,63,63,63	0
59	MG	CU	101	1/1	0.87	0.17	84,84,84,84	0
59	MG	DA	3228	1/1	0.87	0.62	43,43,43,43	0
59	MG	BA	3435	1/1	0.87	0.19	73,73,73,73	0
59	MG	BA	3345	1/1	0.87	0.31	74,74,74,74	0
59	MG	BU	203	1/1	0.87	0.35	82,82,82,82	0
59	MG	BA	3112	1/1	0.87	0.72	42,42,42,42	0
59	MG	AA	1701	1/1	0.87	0.39	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3243	1/1	0.87	0.52	42,42,42,42	0
59	MG	BA	3441	1/1	0.87	0.50	50,50,50,50	0
59	MG	AA	1627	1/1	0.87	0.33	56,56,56,56	0
59	MG	DA	3147	1/1	0.87	0.27	31,31,31,31	0
59	MG	DA	3254	1/1	0.87	0.37	66,66,66,66	0
59	MG	DA	3255	1/1	0.87	0.28	55,55,55,55	0
59	MG	CA	1654	1/1	0.87	0.48	45,45,45,45	0
59	MG	BA	3454	1/1	0.87	0.27	61,61,61,61	0
59	MG	DA	3368	1/1	0.87	0.93	50,50,50,50	0
59	MG	BA	3217	1/1	0.87	0.42	72,72,72,72	0
59	MG	CA	1759	1/1	0.87	0.29	61,61,61,61	0
59	MG	DA	3269	1/1	0.87	0.29	32,32,32,32	0
59	MG	DA	3379	1/1	0.87	0.14	53,53,53,53	0
59	MG	AA	1615	1/1	0.87	0.63	32,32,32,32	0
59	MG	BA	3236	1/1	0.87	0.47	48,48,48,48	0
59	MG	DA	3275	1/1	0.87	0.30	53,53,53,53	0
59	MG	DA	3279	1/1	0.87	0.73	52,52,52,52	0
59	MG	DA	3167	1/1	0.87	0.30	76,76,76,76	0
59	MG	DA	3290	1/1	0.87	0.18	68,68,68,68	0
59	MG	BA	3284	1/1	0.87	0.32	62,62,62,62	0
59	MG	BA	3411	1/1	0.87	0.33	52,52,52,52	0
59	MG	BA	3242	1/1	0.87	0.38	49,49,49,49	0
59	MG	BA	3244	1/1	0.87	0.74	85,85,85,85	0
59	MG	DA	3186	1/1	0.87	1.18	43,43,43,43	0
59	MG	CA	1625	1/1	0.88	0.32	71,71,71,71	0
59	MG	AA	1649	1/1	0.88	0.20	54,54,54,54	0
59	MG	DA	3134	1/1	0.88	0.51	49,49,49,49	0
59	MG	DA	3135	1/1	0.88	0.23	56,56,56,56	0
59	MG	BA	3127	1/1	0.88	0.24	77,77,77,77	0
59	MG	DA	3139	1/1	0.88	0.49	57,57,57,57	0
59	MG	AA	1780	1/1	0.88	0.22	72,72,72,72	0
59	MG	BA	3259	1/1	0.88	0.25	55,55,55,55	0
59	MG	BA	3260	1/1	0.88	0.34	59,59,59,59	0
59	MG	CA	1776	1/1	0.88	0.26	53,53,53,53	0
59	MG	CA	1697	1/1	0.88	0.21	77,77,77,77	0
59	MG	AA	1730	1/1	0.88	0.35	59,59,59,59	0
59	MG	BB	204	1/1	0.88	0.35	98,98,98,98	0
59	MG	DA	3156	1/1	0.88	0.65	67,67,67,67	0
59	MG	DA	3314	1/1	0.88	0.12	64,64,64,64	0
59	MG	DA	3159	1/1	0.88	0.41	41,41,41,41	0
59	MG	BA	3266	1/1	0.88	0.35	64,64,64,64	0
59	MG	BA	3269	1/1	0.88	0.21	166,166,166,166	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3394	1/1	0.88	0.40	61,61,61,61	0
59	MG	BA	3396	1/1	0.88	0.39	63,63,63,63	0
59	MG	BB	214	1/1	0.88	0.27	84,84,84,84	0
59	MG	CA	1710	1/1	0.88	0.14	120,120,120,120	0
59	MG	CV	102	1/1	0.88	0.38	62,62,62,62	0
59	MG	AA	1762	1/1	0.88	0.29	100,100,100,100	0
59	MG	AA	1623	1/1	0.88	0.35	79,79,79,79	0
59	MG	CA	1717	1/1	0.88	0.35	48,48,48,48	0
59	MG	DA	3187	1/1	0.88	0.46	53,53,53,53	0
59	MG	BA	3330	1/1	0.88	0.10	104,104,104,104	0
59	MG	BA	3228	1/1	0.88	0.27	68,68,68,68	0
59	MG	AA	1735	1/1	0.88	0.44	56,56,56,56	0
59	MG	DA	3202	1/1	0.88	0.21	54,54,54,54	0
59	MG	CA	1728	1/1	0.88	0.18	73,73,73,73	0
59	MG	AW	102	1/1	0.88	0.50	79,79,79,79	0
59	MG	CA	1657	1/1	0.88	0.10	88,88,88,88	0
59	MG	BA	3282	1/1	0.88	0.27	76,76,76,76	0
59	MG	AA	1749	1/1	0.88	0.14	105,105,105,105	0
59	MG	CA	1736	1/1	0.88	0.41	63,63,63,63	0
59	MG	DA	3215	1/1	0.88	0.76	46,46,46,46	0
59	MG	CA	1739	1/1	0.88	0.23	131,131,131,131	0
59	MG	BA	3342	1/1	0.88	0.38	64,64,64,64	0
59	MG	DA	3229	1/1	0.88	0.25	52,52,52,52	0
59	MG	AA	1737	1/1	0.88	0.32	78,78,78,78	0
59	MG	BA	3416	1/1	0.88	0.24	50,50,50,50	0
59	MG	AW	120	1/1	0.88	0.30	104,104,104,104	0
59	MG	AA	1691	1/1	0.88	0.62	45,45,45,45	0
59	MG	BA	3207	1/1	0.88	0.24	46,46,46,46	0
59	MG	BA	3164	1/1	0.88	0.18	78,78,78,78	0
59	MG	BA	3300	1/1	0.88	0.45	62,62,62,62	0
59	MG	BA	3246	1/1	0.88	0.29	54,54,54,54	0
59	MG	AA	1635	1/1	0.88	0.45	53,53,53,53	0
59	MG	DB	203	1/1	0.88	0.17	59,59,59,59	0
59	MG	DA	3253	1/1	0.88	0.16	80,80,80,80	0
59	MG	BA	3362	1/1	0.88	0.63	83,83,83,83	0
59	MG	AA	1741	1/1	0.88	0.11	69,69,69,69	0
59	MG	BA	3304	1/1	0.88	0.20	71,71,71,71	0
59	MG	AA	1703	1/1	0.88	0.54	72,72,72,72	0
59	MG	DA	3293	1/1	0.89	0.30	16,16,16,16	0
59	MG	CA	1694	1/1	0.89	0.16	80,80,80,80	0
59	MG	BU	202	1/1	0.89	0.23	52,52,52,52	0
59	MG	AA	1636	1/1	0.89	0.42	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3017	1/1	0.89	0.25	43,43,43,43	0
59	MG	BA	3136	1/1	0.89	0.30	51,51,51,51	0
59	MG	DA	3188	1/1	0.89	0.44	30,30,30,30	0
59	MG	BA	3440	1/1	0.89	0.43	54,54,54,54	0
59	MG	BA	3214	1/1	0.89	0.39	59,59,59,59	0
59	MG	CA	1760	1/1	0.89	0.11	92,92,92,92	0
59	MG	DA	3197	1/1	0.89	0.47	49,49,49,49	0
59	MG	BA	3270	1/1	0.89	0.20	73,73,73,73	0
59	MG	BA	3234	1/1	0.89	0.51	83,83,83,83	0
59	MG	DA	3019	1/1	0.89	0.47	52,52,52,52	0
59	MG	DA	3325	1/1	0.89	0.23	56,56,56,56	0
59	MG	BA	3308	1/1	0.89	0.32	53,53,53,53	0
59	MG	DA	3074	1/1	0.89	0.22	40,40,40,40	0
59	MG	CA	1709	1/1	0.89	0.46	49,49,49,49	0
59	MG	DA	3100	1/1	0.89	0.36	29,29,29,29	0
59	MG	AA	1714	1/1	0.89	0.12	88,88,88,88	0
59	MG	BA	3315	1/1	0.89	0.32	64,64,64,64	0
59	MG	BA	3173	1/1	0.89	0.20	62,62,62,62	0
59	MG	BA	3001	1/1	0.89	0.63	56,56,56,56	0
59	MG	AA	1717	1/1	0.89	0.14	67,67,67,67	0
59	MG	DA	3349	1/1	0.89	0.99	39,39,39,39	1
59	MG	AA	1729	1/1	0.89	0.19	61,61,61,61	0
59	MG	DA	3132	1/1	0.89	0.39	44,44,44,44	0
59	MG	CA	1722	1/1	0.89	0.17	67,67,67,67	0
59	MG	CA	1723	1/1	0.89	0.09	132,132,132,132	0
59	MG	DA	3235	1/1	0.89	0.94	73,73,73,73	0
59	MG	BA	3253	1/1	0.89	0.27	97,97,97,97	0
59	MG	BB	213	1/1	0.89	0.32	50,50,50,50	0
59	MG	CA	1634	1/1	0.89	0.22	68,68,68,68	0
59	MG	CA	1730	1/1	0.89	0.18	93,93,93,93	0
59	MG	AA	1685	1/1	0.89	0.05	104,104,104,104	0
59	MG	BA	3008	1/1	0.89	0.36	49,49,49,49	0
59	MG	CA	1734	1/1	0.89	0.53	75,75,75,75	0
59	MG	AA	1781	1/1	0.89	0.26	70,70,70,70	0
59	MG	BA	3423	1/1	0.89	0.61	61,61,61,61	0
59	MG	DA	3154	1/1	0.89	0.12	54,54,54,54	0
59	MG	BA	3376	1/1	0.89	0.49	81,81,81,81	0
59	MG	BA	3380	1/1	0.89	0.20	60,60,60,60	0
59	MG	AV	107	1/1	0.89	0.26	63,63,63,63	0
59	MG	AA	1655	1/1	0.89	0.65	73,73,73,73	0
59	MG	BA	3299	1/1	0.89	0.20	63,63,63,63	0
59	MG	DB	204	1/1	0.89	0.29	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3278	1/1	0.89	0.66	52,52,52,52	0
59	MG	CA	1745	1/1	0.89	0.20	51,51,51,51	0
59	MG	CA	1691	1/1	0.89	0.14	65,65,65,65	0
59	MG	DA	3282	1/1	0.89	0.63	52,52,52,52	0
59	MG	AA	1787	1/1	0.89	0.08	84,84,84,84	0
59	MG	DA	3313	1/1	0.90	0.36	47,47,47,47	0
59	MG	CA	1610	1/1	0.90	0.26	76,76,76,76	0
59	MG	CA	1613	1/1	0.90	0.13	63,63,63,63	0
59	MG	BA	3226	1/1	0.90	0.20	57,57,57,57	0
59	MG	CA	1789	1/1	0.90	0.13	89,89,89,89	0
59	MG	BA	3160	1/1	0.90	0.18	57,57,57,57	0
59	MG	CA	1727	1/1	0.90	0.09	99,99,99,99	0
59	MG	CA	1618	1/1	0.90	0.28	65,65,65,65	0
59	MG	BA	3055	1/1	0.90	0.31	23,23,23,23	0
59	MG	BA	3122	1/1	0.90	0.22	27,27,27,27	0
59	MG	BB	203	1/1	0.90	0.33	99,99,99,99	0
59	MG	BA	3200	1/1	0.90	0.32	68,68,68,68	0
59	MG	CA	1626	1/1	0.90	0.37	94,94,94,94	0
59	MG	AA	1616	1/1	0.90	0.17	63,63,63,63	0
59	MG	BA	3166	1/1	0.90	0.11	105,105,105,105	0
59	MG	DA	3144	1/1	0.90	0.20	45,45,45,45	0
59	MG	CA	1737	1/1	0.90	0.41	82,82,82,82	0
59	MG	CA	1738	1/1	0.90	0.28	95,95,95,95	0
59	MG	BA	3311	1/1	0.90	0.35	63,63,63,63	0
59	MG	DA	3248	1/1	0.90	0.61	44,44,44,44	0
59	MG	AA	1690	1/1	0.90	0.30	69,69,69,69	0
59	MG	DA	3250	1/1	0.90	0.33	48,48,48,48	0
59	MG	BA	3210	1/1	0.90	0.17	56,56,56,56	0
59	MG	AA	1767	1/1	0.90	0.25	47,47,47,47	0
59	MG	BA	3417	1/1	0.90	0.38	43,43,43,43	0
59	MG	DA	3358	1/1	0.90	0.16	72,72,72,72	0
59	MG	BA	3237	1/1	0.90	0.42	37,37,37,37	0
59	MG	BA	3279	1/1	0.90	0.28	66,66,66,66	0
59	MG	BA	3421	1/1	0.90	0.55	50,50,50,50	0
59	MG	BA	3422	1/1	0.90	0.11	48,48,48,48	0
59	MG	AA	1746	1/1	0.90	0.10	87,87,87,87	0
59	MG	CA	1752	1/1	0.90	0.32	41,41,41,41	0
59	MG	BA	3369	1/1	0.90	0.36	60,60,60,60	0
59	MG	AA	1758	1/1	0.90	0.54	42,42,42,42	0
59	MG	BA	3326	1/1	0.90	0.31	130,130,130,130	0
59	MG	DA	3381	1/1	0.90	0.21	57,57,57,57	0
59	MG	BA	3245	1/1	0.90	0.41	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	AA	1699	1/1	0.90	0.05	105,105,105,105	0
59	MG	AA	1633	1/1	0.90	0.23	64,64,64,64	0
59	MG	DA	3286	1/1	0.90	0.28	35,35,35,35	0
59	MG	DB	201	1/1	0.90	0.12	65,65,65,65	0
59	MG	AA	1798	1/1	0.90	0.37	75,75,75,75	0
59	MG	DA	3192	1/1	0.90	0.22	53,53,53,53	0
59	MG	DA	3296	1/1	0.90	0.29	46,46,46,46	0
59	MG	AA	1618	1/1	0.90	0.20	65,65,65,65	0
59	MG	AA	1750	1/1	0.90	0.31	68,68,68,68	0
59	MG	BA	3295	1/1	0.90	0.34	51,51,51,51	0
59	MG	DO	201	1/1	0.90	0.27	64,64,64,64	0
59	MG	AW	103	1/1	0.90	0.75	105,105,105,105	0
59	MG	AA	1711	1/1	0.90	0.09	60,60,60,60	0
59	MG	BA	3057	1/1	0.91	0.59	52,52,52,52	0
59	MG	CA	1611	1/1	0.91	0.31	71,71,71,71	0
59	MG	BA	3134	1/1	0.91	0.30	30,30,30,30	0
59	MG	AV	104	1/1	0.91	0.73	102,102,102,102	0
59	MG	AV	105	1/1	0.91	0.58	62,62,62,62	0
59	MG	AA	1625	1/1	0.91	0.14	66,66,66,66	0
59	MG	AA	1613	1/1	0.91	0.17	89,89,89,89	0
59	MG	BA	3208	1/1	0.91	0.15	36,36,36,36	0
59	MG	CA	1744	1/1	0.91	0.33	94,94,94,94	0
59	MG	CA	1685	1/1	0.91	0.18	56,56,56,56	0
59	MG	BA	3147	1/1	0.91	0.26	58,58,58,58	0
59	MG	BA	3316	1/1	0.91	0.80	59,59,59,59	0
59	MG	BA	3151	1/1	0.91	0.40	78,78,78,78	0
59	MG	BA	3384	1/1	0.91	0.83	63,63,63,63	0
59	MG	BA	3320	1/1	0.91	0.35	173,173,173,173	0
59	MG	BA	3386	1/1	0.91	0.26	83,83,83,83	0
59	MG	AA	1779	1/1	0.91	0.58	58,58,58,58	0
59	MG	BA	3082	1/1	0.91	0.34	42,42,42,42	0
59	MG	AA	1736	1/1	0.91	0.44	56,56,56,56	0
59	MG	BA	3089	1/1	0.91	0.26	42,42,42,42	0
59	MG	BA	3090	1/1	0.91	0.27	73,73,73,73	0
59	MG	AA	1766	1/1	0.91	0.10	54,54,54,54	0
59	MG	AA	1809	1/1	0.91	0.66	57,57,57,57	0
59	MG	BA	3098	1/1	0.91	0.41	55,55,55,55	0
59	MG	AA	1629	1/1	0.91	0.27	61,61,61,61	0
59	MG	AA	1631	1/1	0.91	0.31	62,62,62,62	0
59	MG	CA	1770	1/1	0.91	0.32	80,80,80,80	0
59	MG	BA	3109	1/1	0.91	0.32	32,32,32,32	0
59	MG	CA	1713	1/1	0.91	0.12	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3170	1/1	0.91	0.35	66,66,66,66	0
59	MG	CA	1777	1/1	0.91	0.22	60,60,60,60	0
59	MG	DA	3360	1/1	0.91	0.14	55,55,55,55	0
59	MG	AA	1640	1/1	0.91	0.36	42,42,42,42	0
59	MG	B0	101	1/1	0.91	0.27	44,44,44,44	0
59	MG	CA	1718	1/1	0.91	0.35	81,81,81,81	0
59	MG	AA	1642	1/1	0.91	0.24	57,57,57,57	0
59	MG	BA	3415	1/1	0.91	0.53	71,71,71,71	0
59	MG	AA	1790	1/1	0.91	0.17	120,120,120,120	0
59	MG	BA	3178	1/1	0.91	0.12	53,53,53,53	0
59	MG	B5	101	1/1	0.91	0.27	30,30,30,30	0
59	MG	CF	201	1/1	0.91	0.35	69,69,69,69	0
59	MG	DA	3153	1/1	0.91	0.25	49,49,49,49	0
59	MG	DA	3268	1/1	0.91	0.33	53,53,53,53	0
59	MG	CA	1662	1/1	0.91	0.16	60,60,60,60	0
59	MG	DA	3385	1/1	0.91	0.11	226,226,226,226	0
59	MG	DA	3386	1/1	0.91	0.76	181,181,181,181	0
59	MG	BA	3036	1/1	0.91	0.32	56,56,56,56	0
59	MG	DA	3390	1/1	0.91	0.43	49,49,49,49	0
59	MG	DA	3157	1/1	0.91	0.26	42,42,42,42	0
59	MG	BA	3298	1/1	0.91	0.23	65,65,65,65	0
59	MG	BA	3184	1/1	0.91	0.36	59,59,59,59	0
59	MG	CV	104	1/1	0.91	0.25	55,55,55,55	0
59	MG	B8	101	1/1	0.91	0.38	79,79,79,79	0
59	MG	DA	3164	1/1	0.91	0.17	57,57,57,57	0
59	MG	BA	3131	1/1	0.91	0.36	55,55,55,55	0
59	MG	AA	1731	1/1	0.91	0.35	56,56,56,56	0
59	MG	BA	3363	1/1	0.91	0.34	43,43,43,43	0
59	MG	DA	3172	1/1	0.91	0.26	48,48,48,48	0
59	MG	DA	3297	1/1	0.91	0.41	50,50,50,50	0
59	MG	BA	3188	1/1	0.92	0.33	66,66,66,66	0
59	MG	BA	3058	1/1	0.92	0.15	47,47,47,47	0
59	MG	BA	3358	1/1	0.92	0.11	73,73,73,73	0
59	MG	AA	1791	1/1	0.92	0.24	91,91,91,91	0
59	MG	DA	3114	1/1	0.92	0.07	32,32,32,32	0
59	MG	BA	3161	1/1	0.92	0.44	35,35,35,35	0
59	MG	DA	3319	1/1	0.92	0.53	81,81,81,81	0
59	MG	BA	3062	1/1	0.92	0.34	30,30,30,30	0
59	MG	DA	3216	1/1	0.92	0.41	26,26,26,26	0
59	MG	DA	3220	1/1	0.92	0.30	47,47,47,47	0
59	MG	AA	1792	1/1	0.92	0.10	99,99,99,99	0
59	MG	DA	3227	1/1	0.92	0.25	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CG	201	1/1	0.92	0.42	72,72,72,72	0
59	MG	DA	3330	1/1	0.92	0.34	55,55,55,55	0
59	MG	BA	3067	1/1	0.92	0.58	36,36,36,36	0
59	MG	BA	3165	1/1	0.92	0.33	44,44,44,44	0
59	MG	AA	1626	1/1	0.92	0.29	60,60,60,60	0
59	MG	DA	3336	1/1	0.92	0.56	62,62,62,62	0
59	MG	BA	3209	1/1	0.92	0.20	45,45,45,45	0
59	MG	BA	3372	1/1	0.92	0.32	70,70,70,70	0
59	MG	CA	1696	1/1	0.92	0.39	44,44,44,44	0
59	MG	AA	1673	1/1	0.92	0.13	55,55,55,55	0
59	MG	AA	1695	1/1	0.92	0.26	51,51,51,51	0
59	MG	B2	101	1/1	0.92	0.49	49,49,49,49	0
59	MG	CW	105	1/1	0.92	0.43	107,107,107,107	0
59	MG	DA	3247	1/1	0.92	0.27	41,41,41,41	0
59	MG	DA	3150	1/1	0.92	0.16	54,54,54,54	0
59	MG	BA	3021	1/1	0.92	0.24	61,61,61,61	0
59	MG	CA	1653	1/1	0.92	0.41	38,38,38,38	0
59	MG	AA	1663	1/1	0.92	0.45	61,61,61,61	0
59	MG	BA	3436	1/1	0.92	0.18	65,65,65,65	0
59	MG	BA	3297	1/1	0.92	0.08	66,66,66,66	0
59	MG	AA	1802	1/1	0.92	0.28	85,85,85,85	0
59	MG	AA	1723	1/1	0.92	0.18	64,64,64,64	0
59	MG	DA	3370	1/1	0.92	0.43	37,37,37,37	0
59	MG	AA	1785	1/1	0.92	0.41	52,52,52,52	0
59	MG	AA	1657	1/1	0.92	0.21	92,92,92,92	0
59	MG	DA	3267	1/1	0.92	0.42	53,53,53,53	0
59	MG	CA	1663	1/1	0.92	0.36	71,71,71,71	0
59	MG	AA	1668	1/1	0.92	0.11	47,47,47,47	0
59	MG	BA	3444	1/1	0.92	0.47	58,58,58,58	0
59	MG	AA	1688	1/1	0.92	0.37	50,50,50,50	0
59	MG	BA	3261	1/1	0.92	0.29	59,59,59,59	0
59	MG	DA	3276	1/1	0.92	0.33	38,38,38,38	0
59	MG	BA	3346	1/1	0.92	0.51	128,128,128,128	0
59	MG	DA	3180	1/1	0.92	0.14	26,26,26,26	0
59	MG	AA	1628	1/1	0.92	0.24	52,52,52,52	0
59	MG	DA	3018	1/1	0.92	0.30	73,73,73,73	0
59	MG	BA	3153	1/1	0.92	0.23	42,42,42,42	0
59	MG	DA	3040	1/1	0.92	0.24	22,22,22,22	0
59	MG	DA	3049	1/1	0.92	0.52	38,38,38,38	0
59	MG	DA	3050	1/1	0.92	0.26	44,44,44,44	0
59	MG	BA	3307	1/1	0.92	0.47	39,39,39,39	0
59	MG	CA	1624	1/1	0.92	0.30	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3076	1/1	0.92	0.17	29,29,29,29	0
59	MG	BA	3111	1/1	0.92	0.21	52,52,52,52	0
59	MG	DA	3201	1/1	0.92	0.11	45,45,45,45	0
59	MG	BA	3354	1/1	0.92	0.35	38,38,38,38	0
59	MG	AA	1641	1/1	0.93	0.17	78,78,78,78	0
59	MG	BA	3174	1/1	0.93	0.23	48,48,48,48	0
59	MG	AA	1784	1/1	0.93	0.41	70,70,70,70	0
59	MG	DA	3221	1/1	0.93	0.24	51,51,51,51	0
59	MG	DA	3222	1/1	0.93	0.62	38,38,38,38	0
59	MG	BA	3144	1/1	0.93	0.37	54,54,54,54	0
59	MG	BA	3099	1/1	0.93	0.23	40,40,40,40	0
59	MG	BA	3390	1/1	0.93	0.37	30,30,30,30	0
59	MG	AA	1607	1/1	0.93	0.19	53,53,53,53	0
59	MG	BA	3009	1/1	0.93	0.14	48,48,48,48	0
59	MG	BA	3349	1/1	0.93	0.41	73,73,73,73	0
59	MG	DA	3327	1/1	0.93	0.48	89,89,89,89	0
59	MG	BA	3185	1/1	0.93	0.17	63,63,63,63	0
59	MG	CA	1659	1/1	0.93	0.43	50,50,50,50	0
59	MG	BA	3010	1/1	0.93	0.26	48,48,48,48	0
59	MG	DA	3151	1/1	0.93	0.31	40,40,40,40	0
59	MG	BA	3449	1/1	0.93	0.58	46,46,46,46	0
59	MG	CA	1712	1/1	0.93	0.13	86,86,86,86	0
59	MG	AA	1768	1/1	0.93	0.21	63,63,63,63	0
59	MG	BA	3312	1/1	0.93	0.21	65,65,65,65	0
59	MG	DA	3343	1/1	0.93	0.40	26,26,26,26	0
59	MG	AA	1716	1/1	0.93	0.09	99,99,99,99	0
59	MG	AA	1620	1/1	0.93	0.42	38,38,38,38	0
59	MG	AA	1698	1/1	0.93	0.14	54,54,54,54	0
59	MG	DA	3252	1/1	0.93	0.23	68,68,68,68	0
59	MG	AA	1732	1/1	0.93	0.61	56,56,56,56	0
59	MG	CA	1621	1/1	0.93	0.19	67,67,67,67	0
59	MG	BB	205	1/1	0.93	0.14	65,65,65,65	0
59	MG	CA	1774	1/1	0.93	0.62	49,49,49,49	0
59	MG	BA	3076	1/1	0.93	0.23	65,65,65,65	0
59	MG	DA	3259	1/1	0.93	0.47	34,34,34,34	0
59	MG	DA	3260	1/1	0.93	0.41	43,43,43,43	0
59	MG	DA	3168	1/1	0.93	0.52	60,60,60,60	0
59	MG	BA	3321	1/1	0.93	0.08	175,175,175,175	0
59	MG	AA	1719	1/1	0.93	0.31	112,112,112,112	0
59	MG	BA	3204	1/1	0.93	0.40	40,40,40,40	0
59	MG	CA	1784	1/1	0.93	0.09	66,66,66,66	0
59	MG	DA	3051	1/1	0.93	0.25	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3272	1/1	0.93	0.24	57,57,57,57	0
59	MG	DA	3375	1/1	0.93	0.20	84,84,84,84	0
59	MG	AA	1630	1/1	0.93	0.12	67,67,67,67	0
59	MG	DA	3065	1/1	0.93	0.32	23,23,23,23	0
59	MG	DA	3070	1/1	0.93	0.42	41,41,41,41	0
59	MG	BA	3129	1/1	0.93	0.66	61,61,61,61	0
59	MG	CA	1680	1/1	0.93	0.09	84,84,84,84	0
59	MG	DA	3084	1/1	0.93	0.39	41,41,41,41	0
59	MG	AA	1722	1/1	0.93	0.14	75,75,75,75	0
59	MG	AA	1653	1/1	0.93	0.30	45,45,45,45	0
59	MG	DA	3289	1/1	0.93	0.33	50,50,50,50	0
59	MG	CA	1795	1/1	0.93	0.18	62,62,62,62	0
59	MG	B8	102	1/1	0.93	0.27	58,58,58,58	0
59	MG	CA	1639	1/1	0.93	0.36	48,48,48,48	0
59	MG	AA	1646	1/1	0.93	0.44	67,67,67,67	0
59	MG	AA	1782	1/1	0.93	0.16	116,116,116,116	0
59	MG	BA	3139	1/1	0.93	0.41	37,37,37,37	0
59	MG	DA	3121	1/1	0.93	0.23	41,41,41,41	0
59	MG	DA	3306	1/1	0.93	0.13	39,39,39,39	0
59	MG	DB	212	1/1	0.93	0.20	99,99,99,99	0
59	MG	DF	301	1/1	0.93	0.44	66,66,66,66	0
59	MG	DN	201	1/1	0.93	0.33	98,98,98,98	0
59	MG	BA	3140	1/1	0.93	0.26	36,36,36,36	0
59	MG	BA	3432	1/1	0.93	0.22	48,48,48,48	0
59	MG	DA	3214	1/1	0.93	0.60	31,31,31,31	0
59	MG	DA	3251	1/1	0.94	0.18	53,53,53,53	0
59	MG	DA	3081	1/1	0.94	0.58	39,39,39,39	0
59	MG	BA	3430	1/1	0.94	0.13	69,69,69,69	0
59	MG	AA	1806	1/1	0.94	0.46	30,30,30,30	0
59	MG	DA	3091	1/1	0.94	0.38	37,37,37,37	0
59	MG	DA	3094	1/1	0.94	0.34	38,38,38,38	0
59	MG	CA	1679	1/1	0.94	0.18	63,63,63,63	0
59	MG	CA	1755	1/1	0.94	0.38	47,47,47,47	0
59	MG	DA	3104	1/1	0.94	0.22	23,23,23,23	0
59	MG	BA	3041	1/1	0.94	0.62	46,46,46,46	0
59	MG	DA	3263	1/1	0.94	0.57	38,38,38,38	0
59	MG	DA	3106	1/1	0.94	0.16	32,32,32,32	0
59	MG	BA	3264	1/1	0.94	0.46	55,55,55,55	0
59	MG	BA	3368	1/1	0.94	0.15	57,57,57,57	0
59	MG	DA	3113	1/1	0.94	0.19	23,23,23,23	0
59	MG	CA	1612	1/1	0.94	0.62	37,37,37,37	0
59	MG	BA	3118	1/1	0.94	0.46	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3267	1/1	0.94	0.34	51,51,51,51	0
59	MG	CA	1687	1/1	0.94	0.32	56,56,56,56	0
59	MG	DA	3130	1/1	0.94	0.21	41,41,41,41	0
59	MG	CA	1688	1/1	0.94	0.28	81,81,81,81	0
59	MG	BA	3155	1/1	0.94	0.15	61,61,61,61	0
59	MG	BA	3042	1/1	0.94	0.49	52,52,52,52	0
59	MG	BA	3084	1/1	0.94	0.19	58,58,58,58	0
59	MG	DA	3285	1/1	0.94	0.29	44,44,44,44	0
59	MG	BA	3043	1/1	0.94	0.23	52,52,52,52	0
59	MG	BA	3087	1/1	0.94	0.16	53,53,53,53	0
59	MG	CA	1622	1/1	0.94	0.28	50,50,50,50	0
59	MG	BA	3197	1/1	0.94	1.09	68,68,68,68	0
59	MG	CA	1778	1/1	0.94	0.38	77,77,77,77	0
59	MG	BA	3004	1/1	0.94	0.53	48,48,48,48	0
59	MG	DA	3298	1/1	0.94	0.20	50,50,50,50	0
59	MG	BA	3446	1/1	0.94	0.45	53,53,53,53	0
59	MG	CA	1785	1/1	0.94	0.30	46,46,46,46	0
59	MG	DA	3303	1/1	0.94	0.13	48,48,48,48	0
59	MG	DA	3149	1/1	0.94	0.47	40,40,40,40	0
59	MG	BA	3447	1/1	0.94	0.21	35,35,35,35	0
59	MG	CA	1701	1/1	0.94	0.36	53,53,53,53	0
59	MG	CA	1702	1/1	0.94	0.14	75,75,75,75	0
59	MG	BA	3448	1/1	0.94	0.55	44,44,44,44	0
59	MG	CA	1704	1/1	0.94	0.23	66,66,66,66	0
59	MG	CA	1629	1/1	0.94	0.32	45,45,45,45	0
59	MG	BA	3005	1/1	0.94	0.27	53,53,53,53	0
59	MG	DA	3158	1/1	0.94	0.30	51,51,51,51	0
59	MG	BA	3450	1/1	0.94	0.11	57,57,57,57	0
59	MG	BA	3451	1/1	0.94	0.34	45,45,45,45	0
59	MG	BA	3453	1/1	0.94	2.01	172,172,172,172	0
59	MG	BA	3281	1/1	0.94	0.47	68,68,68,68	0
59	MG	BA	3092	1/1	0.94	0.28	57,57,57,57	0
59	MG	BA	3202	1/1	0.94	0.52	65,65,65,65	0
59	MG	CA	1641	1/1	0.94	0.36	71,71,71,71	0
59	MG	BA	3016	1/1	0.94	0.65	27,27,27,27	0
59	MG	BA	3393	1/1	0.94	0.43	34,34,34,34	0
59	MG	BA	3006	1/1	0.94	0.47	49,49,49,49	0
59	MG	BA	3241	1/1	0.94	0.64	41,41,41,41	0
59	MG	BA	3289	1/1	0.94	0.28	49,49,49,49	0
59	MG	BA	3290	1/1	0.94	0.69	47,47,47,47	0
59	MG	DA	3335	1/1	0.94	0.42	51,51,51,51	0
59	MG	BA	3135	1/1	0.94	0.18	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3184	1/1	0.94	0.07	49,49,49,49	0
59	MG	DA	3338	1/1	0.94	0.58	37,37,37,37	0
59	MG	DA	3185	1/1	0.94	0.32	31,31,31,31	0
59	MG	BB	210	1/1	0.94	0.29	93,93,93,93	0
59	MG	CA	1726	1/1	0.94	0.30	64,64,64,64	0
59	MG	AA	1755	1/1	0.94	0.40	70,70,70,70	0
59	MG	DA	3189	1/1	0.94	0.34	47,47,47,47	0
59	MG	BA	3138	1/1	0.94	0.15	34,34,34,34	0
59	MG	BA	3296	1/1	0.94	0.44	59,59,59,59	0
59	MG	AA	1704	1/1	0.94	0.65	61,61,61,61	0
59	MG	CW	113	1/1	0.94	0.21	123,123,123,123	0
59	MG	D2	101	1/1	0.94	0.13	59,59,59,59	0
59	MG	CA	1731	1/1	0.94	0.37	51,51,51,51	0
59	MG	BA	3348	1/1	0.94	0.30	63,63,63,63	0
59	MG	BA	3100	1/1	0.94	0.29	32,32,32,32	0
59	MG	DA	3364	1/1	0.94	0.23	46,46,46,46	0
59	MG	DA	3365	1/1	0.94	0.14	38,38,38,38	0
59	MG	BA	3249	1/1	0.94	0.27	49,49,49,49	0
59	MG	DA	3207	1/1	0.94	0.73	83,83,83,83	0
59	MG	BA	3414	1/1	0.94	0.28	48,48,48,48	0
59	MG	BA	3250	1/1	0.94	0.49	30,30,30,30	0
59	MG	BA	3212	1/1	0.94	0.28	64,64,64,64	0
59	MG	AA	1810	1/1	0.94	0.14	88,88,88,88	0
59	MG	DA	3010	1/1	0.94	0.19	40,40,40,40	0
59	MG	DA	3011	1/1	0.94	0.40	27,27,27,27	0
59	MG	DA	3378	1/1	0.94	0.13	35,35,35,35	0
59	MG	BA	3065	1/1	0.94	0.30	35,35,35,35	0
59	MG	AW	108	1/1	0.94	0.15	154,154,154,154	0
59	MG	AC	301	1/1	0.94	0.32	66,66,66,66	0
59	MG	DA	3020	1/1	0.94	0.41	29,29,29,29	0
59	MG	DA	3026	1/1	0.94	0.42	28,28,28,28	0
59	MG	DA	3038	1/1	0.94	0.17	41,41,41,41	0
59	MG	DA	3039	1/1	0.94	0.43	27,27,27,27	0
59	MG	BU	204	1/1	0.94	0.15	64,64,64,64	0
59	MG	AA	1662	1/1	0.94	0.76	43,43,43,43	0
59	MG	BA	3179	1/1	0.94	0.16	66,66,66,66	0
59	MG	BA	3220	1/1	0.94	0.16	59,59,59,59	0
59	MG	DA	3060	1/1	0.94	0.65	24,24,24,24	0
59	MG	DA	3062	1/1	0.94	0.57	26,26,26,26	0
59	MG	CA	1601	1/1	0.94	0.44	53,53,53,53	0
59	MG	DA	3241	1/1	0.94	0.38	33,33,33,33	0
59	MG	CA	1748	1/1	0.94	0.39	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DB	208	1/1	0.94	0.30	55,55,55,55	0
59	MG	DA	3067	1/1	0.94	0.37	26,26,26,26	0
59	MG	DA	3245	1/1	0.94	0.27	47,47,47,47	0
59	MG	DA	3069	1/1	0.94	0.19	48,48,48,48	0
59	MG	BA	3310	1/1	0.94	0.45	44,44,44,44	0
59	MG	CA	1603	1/1	0.94	0.66	55,55,55,55	0
59	MG	DA	3075	1/1	0.94	0.18	29,29,29,29	0
59	MG	CA	1676	1/1	0.94	0.39	49,49,49,49	0
59	MG	DA	3073	1/1	0.95	0.29	38,38,38,38	0
59	MG	CA	1788	1/1	0.95	0.19	124,124,124,124	0
59	MG	BA	3314	1/1	0.95	0.71	66,66,66,66	0
59	MG	BA	3273	1/1	0.95	0.30	42,42,42,42	0
59	MG	DA	3080	1/1	0.95	0.25	51,51,51,51	0
59	MG	BA	3191	1/1	0.95	0.32	51,51,51,51	0
59	MG	BA	3110	1/1	0.95	0.47	35,35,35,35	0
59	MG	DA	3204	1/1	0.95	0.35	26,26,26,26	0
59	MG	DA	3085	1/1	0.95	0.31	42,42,42,42	0
59	MG	CA	1724	1/1	0.95	0.22	120,120,120,120	0
59	MG	BA	3319	1/1	0.95	0.23	133,133,133,133	0
59	MG	DA	3209	1/1	0.95	0.14	80,80,80,80	0
59	MG	BA	3277	1/1	0.95	0.27	56,56,56,56	0
59	MG	AA	1715	1/1	0.95	0.28	52,52,52,52	0
59	MG	AA	1667	1/1	0.95	0.36	64,64,64,64	0
59	MG	CA	1670	1/1	0.95	0.29	68,68,68,68	0
59	MG	AA	1744	1/1	0.95	0.23	70,70,70,70	0
59	MG	BA	3382	1/1	0.95	0.29	43,43,43,43	0
59	MG	AA	1680	1/1	0.95	0.19	51,51,51,51	0
59	MG	AA	1689	1/1	0.95	0.26	53,53,53,53	0
59	MG	AA	1708	1/1	0.95	0.34	61,61,61,61	0
59	MG	AA	1709	1/1	0.95	0.16	59,59,59,59	0
59	MG	DA	3226	1/1	0.95	0.25	51,51,51,51	0
59	MG	CA	1616	1/1	0.95	0.52	32,32,32,32	0
59	MG	DA	3117	1/1	0.95	0.22	57,57,57,57	0
59	MG	BA	3205	1/1	0.95	0.24	48,48,48,48	0
59	MG	BA	3081	1/1	0.95	0.38	37,37,37,37	0
59	MG	DA	3127	1/1	0.95	0.29	31,31,31,31	0
59	MG	AV	101	1/1	0.95	0.36	61,61,61,61	0
59	MG	DA	3339	1/1	0.95	0.45	47,47,47,47	0
59	MG	BA	3083	1/1	0.95	0.28	28,28,28,28	0
59	MG	BA	3291	1/1	0.95	0.46	63,63,63,63	0
59	MG	BA	3333	1/1	0.95	0.39	51,51,51,51	0
59	MG	DA	3347	1/1	0.95	0.14	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3238	1/1	0.95	0.48	26,26,26,26	0
59	MG	AA	1796	1/1	0.95	0.24	47,47,47,47	0
59	MG	DA	3137	1/1	0.95	0.72	25,25,25,25	0
59	MG	BA	3029	1/1	0.95	0.36	50,50,50,50	0
59	MG	BA	3294	1/1	0.95	0.35	35,35,35,35	0
59	MG	CA	1746	1/1	0.95	0.12	79,79,79,79	0
59	MG	DA	3142	1/1	0.95	0.36	30,30,30,30	0
59	MG	BA	3341	1/1	0.95	0.23	57,57,57,57	0
59	MG	CX	102	1/1	0.95	0.36	49,49,49,49	0
59	MG	DA	3362	1/1	0.95	0.30	56,56,56,56	0
59	MG	BA	3251	1/1	0.95	0.36	46,46,46,46	0
59	MG	BA	3343	1/1	0.95	0.27	70,70,70,70	0
59	MG	BA	3030	1/1	0.95	0.27	52,52,52,52	0
59	MG	BA	3034	1/1	0.95	0.34	27,27,27,27	0
59	MG	BA	3410	1/1	0.95	0.14	206,206,206,206	0
59	MG	AA	1637	1/1	0.95	0.25	71,71,71,71	0
59	MG	BA	3347	1/1	0.95	0.26	47,47,47,47	0
59	MG	DA	3371	1/1	0.95	0.54	46,46,46,46	0
59	MG	DA	3006	1/1	0.95	0.63	63,63,63,63	0
59	MG	AA	1652	1/1	0.95	0.21	92,92,92,92	0
59	MG	AA	1799	1/1	0.95	0.37	41,41,41,41	0
59	MG	BA	3095	1/1	0.95	0.59	30,30,30,30	0
59	MG	AA	1800	1/1	0.95	0.19	74,74,74,74	0
59	MG	AA	1751	1/1	0.95	0.57	52,52,52,52	0
59	MG	DA	3265	1/1	0.95	0.30	38,38,38,38	0
59	MG	DA	3015	1/1	0.95	0.22	29,29,29,29	0
59	MG	CA	1645	1/1	0.95	0.39	50,50,50,50	0
59	MG	AA	1692	1/1	0.95	0.43	48,48,48,48	0
59	MG	BA	3262	1/1	0.95	0.43	31,31,31,31	0
59	MG	BF	301	1/1	0.95	0.18	45,45,45,45	0
59	MG	AA	1684	1/1	0.95	0.42	44,44,44,44	0
59	MG	DA	3388	1/1	0.95	0.21	46,46,46,46	0
59	MG	BA	3105	1/1	0.95	0.24	43,43,43,43	0
59	MG	CA	1771	1/1	0.95	0.13	62,62,62,62	0
59	MG	DA	3392	1/1	0.95	0.29	28,28,28,28	0
59	MG	BA	3146	1/1	0.95	0.35	43,43,43,43	0
59	MG	CA	1773	1/1	0.95	0.51	44,44,44,44	0
59	MG	AA	1678	1/1	0.95	0.29	82,82,82,82	0
59	MG	BU	201	1/1	0.95	0.23	74,74,74,74	0
59	MG	DA	3284	1/1	0.95	0.14	35,35,35,35	0
59	MG	BA	3149	1/1	0.95	0.50	38,38,38,38	0
59	MG	BA	3429	1/1	0.95	0.45	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3288	1/1	0.95	0.28	22,22,22,22	0
59	MG	CA	1715	1/1	0.95	0.09	104,104,104,104	0
59	MG	AA	1807	1/1	0.95	0.30	66,66,66,66	0
59	MG	DF	302	1/1	0.95	0.20	42,42,42,42	0
59	MG	DA	3068	1/1	0.95	0.35	16,16,16,16	0
59	MG	AA	1786	1/1	0.95	0.28	56,56,56,56	0
59	MG	BV	201	1/1	0.95	0.29	33,33,33,33	0
59	MG	DA	3071	1/1	0.95	0.24	53,53,53,53	0
60	EDS	AA	1805	41/41	0.95	0.20	47,55,60,66	0
59	MG	DA	3300	1/1	0.96	0.35	33,33,33,33	0
59	MG	DA	3093	1/1	0.96	0.12	22,22,22,22	0
59	MG	DA	3199	1/1	0.96	0.21	52,52,52,52	0
59	MG	DA	3200	1/1	0.96	0.38	45,45,45,45	0
59	MG	DA	3305	1/1	0.96	0.07	62,62,62,62	0
59	MG	BA	3334	1/1	0.96	0.24	54,54,54,54	0
59	MG	CA	1711	1/1	0.96	0.64	72,72,72,72	0
59	MG	DA	3308	1/1	0.96	0.26	47,47,47,47	0
59	MG	DA	3102	1/1	0.96	0.34	27,27,27,27	0
59	MG	CA	1666	1/1	0.96	0.35	60,60,60,60	0
59	MG	BA	3379	1/1	0.96	0.12	74,74,74,74	0
59	MG	BA	3335	1/1	0.96	0.13	81,81,81,81	0
59	MG	CX	101	1/1	0.96	0.46	44,44,44,44	0
59	MG	BB	212	1/1	0.96	0.27	48,48,48,48	0
59	MG	CA	1763	1/1	0.96	0.14	50,50,50,50	0
59	MG	BA	3425	1/1	0.96	0.23	67,67,67,67	0
59	MG	BA	3336	1/1	0.96	0.21	73,73,73,73	0
59	MG	BA	3428	1/1	0.96	0.40	71,71,71,71	0
59	MG	CA	1768	1/1	0.96	0.54	58,58,58,58	0
59	MG	DA	3118	1/1	0.96	0.81	51,51,51,51	0
59	MG	DA	3218	1/1	0.96	0.47	29,29,29,29	0
59	MG	DA	3120	1/1	0.96	0.56	37,37,37,37	0
59	MG	BA	3176	1/1	0.96	0.77	66,66,66,66	0
59	MG	AA	1624	1/1	0.96	0.22	63,63,63,63	0
59	MG	BA	3272	1/1	0.96	0.41	44,44,44,44	0
59	MG	DA	3225	1/1	0.96	0.42	42,42,42,42	0
59	MG	CA	1631	1/1	0.96	0.33	31,31,31,31	0
59	MG	AA	1795	1/1	0.96	0.71	47,47,47,47	0
59	MG	DA	3133	1/1	0.96	0.46	22,22,22,22	0
59	MG	DA	3009	1/1	0.96	0.20	29,29,29,29	0
59	MG	AA	1693	1/1	0.96	0.30	56,56,56,56	0
59	MG	BA	3158	1/1	0.96	0.10	71,71,71,71	0
59	MG	BA	3159	1/1	0.96	0.13	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3183	1/1	0.96	0.67	68,68,68,68	0
59	MG	CA	1779	1/1	0.96	0.54	46,46,46,46	0
59	MG	DA	3345	1/1	0.96	0.48	53,53,53,53	0
59	MG	DA	3346	1/1	0.96	0.32	13,13,13,13	0
59	MG	CA	1782	1/1	0.96	0.15	58,58,58,58	0
59	MG	DA	3236	1/1	0.96	0.69	35,35,35,35	0
59	MG	DA	3237	1/1	0.96	0.23	34,34,34,34	0
59	MG	BA	3247	1/1	0.96	0.12	34,34,34,34	0
59	MG	DA	3351	1/1	0.96	0.14	40,40,40,40	0
59	MG	DA	3240	1/1	0.96	0.16	27,27,27,27	0
59	MG	BA	3035	1/1	0.96	0.37	30,30,30,30	0
59	MG	DA	3032	1/1	0.96	0.45	28,28,28,28	0
59	MG	DA	3033	1/1	0.96	0.17	26,26,26,26	0
59	MG	DA	3146	1/1	0.96	0.35	46,46,46,46	0
59	MG	DA	3359	1/1	0.96	0.11	57,57,57,57	0
59	MG	DA	3035	1/1	0.96	0.79	44,44,44,44	0
59	MG	DA	3036	1/1	0.96	0.24	62,62,62,62	0
59	MG	DA	3037	1/1	0.96	0.47	31,31,31,31	0
59	MG	AA	1669	1/1	0.96	0.20	57,57,57,57	0
59	MG	BA	3066	1/1	0.96	0.22	47,47,47,47	0
59	MG	AA	1665	1/1	0.96	0.14	86,86,86,86	0
59	MG	DA	3044	1/1	0.96	0.23	23,23,23,23	0
59	MG	DA	3045	1/1	0.96	0.42	38,38,38,38	0
59	MG	DA	3155	1/1	0.96	0.23	56,56,56,56	0
59	MG	DA	3046	1/1	0.96	0.42	35,35,35,35	0
59	MG	BA	3252	1/1	0.96	0.64	50,50,50,50	0
59	MG	BA	3068	1/1	0.96	0.41	36,36,36,36	0
59	MG	BA	3189	1/1	0.96	0.28	42,42,42,42	0
59	MG	DA	3052	1/1	0.96	0.34	20,20,20,20	0
59	MG	DA	3053	1/1	0.96	0.32	29,29,29,29	0
59	MG	BA	3402	1/1	0.96	0.22	54,54,54,54	0
59	MG	BA	3288	1/1	0.96	0.17	78,78,78,78	0
59	MG	CA	1693	1/1	0.96	0.23	87,87,87,87	0
59	MG	BA	3190	1/1	0.96	0.30	38,38,38,38	0
59	MG	AA	1682	1/1	0.96	0.15	117,117,117,117	0
59	MG	DA	3384	1/1	0.96	0.20	188,188,188,188	0
59	MG	BA	3124	1/1	0.96	0.36	49,49,49,49	0
59	MG	DA	3270	1/1	0.96	0.31	45,45,45,45	0
59	MG	DA	3170	1/1	0.96	0.11	87,87,87,87	0
59	MG	DA	3171	1/1	0.96	0.26	46,46,46,46	0
59	MG	CA	1606	1/1	0.96	0.35	41,41,41,41	0
59	MG	DA	3173	1/1	0.96	0.21	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1698	1/1	0.96	0.07	74,74,74,74	0
59	MG	BA	3194	1/1	0.96	0.23	54,54,54,54	0
59	MG	DA	3072	1/1	0.96	0.52	22,22,22,22	0
59	MG	BA	3073	1/1	0.96	0.34	37,37,37,37	0
59	MG	AA	1661	1/1	0.96	0.51	40,40,40,40	0
59	MG	DB	205	1/1	0.96	0.20	66,66,66,66	0
59	MG	DA	3283	1/1	0.96	0.26	33,33,33,33	0
59	MG	BA	3048	1/1	0.96	0.26	69,69,69,69	0
59	MG	CA	1658	1/1	0.96	0.48	55,55,55,55	0
59	MG	DB	209	1/1	0.96	0.30	46,46,46,46	0
59	MG	AA	1606	1/1	0.96	0.22	65,65,65,65	0
59	MG	BA	3201	1/1	0.96	0.55	49,49,49,49	0
59	MG	DE	301	1/1	0.96	0.39	25,25,25,25	0
59	MG	DA	3082	1/1	0.96	0.35	32,32,32,32	0
59	MG	BA	3130	1/1	0.96	0.27	54,54,54,54	0
59	MG	DA	3191	1/1	0.96	0.21	32,32,32,32	0
59	MG	AA	1739	1/1	0.96	0.29	44,44,44,44	0
59	MG	DA	3193	1/1	0.96	0.37	50,50,50,50	0
59	MG	AA	1803	1/1	0.96	0.11	70,70,70,70	0
59	MG	BA	3154	1/1	0.96	0.54	50,50,50,50	0
60	EDS	CA	1787	41/41	0.96	0.20	39,46,57,70	0
59	MG	AA	1771	1/1	0.97	0.27	48,48,48,48	0
59	MG	BA	3039	1/1	0.97	0.26	45,45,45,45	0
59	MG	AA	1702	1/1	0.97	0.12	93,93,93,93	0
59	MG	CA	1780	1/1	0.97	0.16	71,71,71,71	0
59	MG	DA	3287	1/1	0.97	0.14	30,30,30,30	0
59	MG	AA	1773	1/1	0.97	0.32	52,52,52,52	0
59	MG	DA	3054	1/1	0.97	0.27	18,18,18,18	0
59	MG	DA	3056	1/1	0.97	0.15	32,32,32,32	0
59	MG	AA	1664	1/1	0.97	0.12	89,89,89,89	0
59	MG	DA	3294	1/1	0.97	0.61	34,34,34,34	0
59	MG	DA	3295	1/1	0.97	0.31	66,66,66,66	0
59	MG	DA	3061	1/1	0.97	0.39	21,21,21,21	0
59	MG	DA	3178	1/1	0.97	0.16	40,40,40,40	0
59	MG	BA	3128	1/1	0.97	0.54	41,41,41,41	0
59	MG	DA	3063	1/1	0.97	0.54	19,19,19,19	0
59	MG	BA	3211	1/1	0.97	0.21	44,44,44,44	0
59	MG	DA	3183	1/1	0.97	0.28	49,49,49,49	0
59	MG	DA	3302	1/1	0.97	0.31	48,48,48,48	0
59	MG	BA	3085	1/1	0.97	0.26	30,30,30,30	0
59	MG	AA	1725	1/1	0.97	0.66	54,54,54,54	0
59	MG	CA	1790	1/1	0.97	0.22	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	CA	1651	1/1	0.97	0.34	60,60,60,60	0
59	MG	BA	3050	1/1	0.97	0.25	25,25,25,25	0
59	MG	CA	1719	1/1	0.97	0.14	57,57,57,57	0
59	MG	BE	301	1/1	0.97	0.30	35,35,35,35	0
59	MG	BE	302	1/1	0.97	0.20	23,23,23,23	0
59	MG	BA	3309	1/1	0.97	0.56	31,31,31,31	0
59	MG	BA	3419	1/1	0.97	0.48	49,49,49,49	0
59	MG	BA	3088	1/1	0.97	0.25	42,42,42,42	0
59	MG	AA	1643	1/1	0.97	0.17	58,58,58,58	0
59	MG	DA	3196	1/1	0.97	0.23	26,26,26,26	0
59	MG	BA	3360	1/1	0.97	0.33	51,51,51,51	0
59	MG	DA	3198	1/1	0.97	0.45	52,52,52,52	0
59	MG	BA	3054	1/1	0.97	0.30	16,16,16,16	0
59	MG	DA	3083	1/1	0.97	0.33	33,33,33,33	0
59	MG	DA	3323	1/1	0.97	0.30	43,43,43,43	0
59	MG	CV	101	1/1	0.97	0.38	31,31,31,31	0
59	MG	BA	3018	1/1	0.97	0.39	36,36,36,36	0
59	MG	AA	1638	1/1	0.97	0.35	43,43,43,43	0
59	MG	DA	3087	1/1	0.97	0.23	17,17,17,17	0
59	MG	DA	3329	1/1	0.97	0.06	94,94,94,94	0
59	MG	DA	3205	1/1	0.97	0.59	35,35,35,35	0
59	MG	DA	3088	1/1	0.97	0.54	24,24,24,24	0
59	MG	DA	3089	1/1	0.97	0.40	46,46,46,46	0
59	MG	BA	3137	1/1	0.97	0.24	33,33,33,33	0
59	MG	DA	3334	1/1	0.97	0.28	21,21,21,21	0
59	MG	DA	3092	1/1	0.97	0.23	26,26,26,26	0
59	MG	BA	3094	1/1	0.97	0.26	30,30,30,30	0
59	MG	BA	3223	1/1	0.97	0.24	52,52,52,52	0
59	MG	DA	3098	1/1	0.97	0.37	29,29,29,29	0
59	MG	AA	1793	1/1	0.97	0.19	85,85,85,85	0
59	MG	DA	3341	1/1	0.97	0.28	45,45,45,45	0
59	MG	DA	3101	1/1	0.97	0.55	37,37,37,37	0
59	MG	BA	3181	1/1	0.97	0.35	44,44,44,44	0
59	MG	BA	3370	1/1	0.97	0.17	47,47,47,47	0
59	MG	AA	1651	1/1	0.97	0.14	78,78,78,78	0
59	MG	BA	3060	1/1	0.97	0.35	26,26,26,26	0
59	MG	CA	1604	1/1	0.97	0.23	42,42,42,42	0
59	MG	DA	3107	1/1	0.97	0.22	31,31,31,31	0
59	MG	AA	1659	1/1	0.97	0.34	74,74,74,74	0
59	MG	DA	3109	1/1	0.97	0.35	17,17,17,17	0
59	MG	DA	3110	1/1	0.97	0.29	20,20,20,20	0
59	MG	DA	3352	1/1	0.97	0.21	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3377	1/1	0.97	0.15	30,30,30,30	0
59	MG	DA	3354	1/1	0.97	0.33	36,36,36,36	0
59	MG	AA	1639	1/1	0.97	0.17	49,49,49,49	0
59	MG	BA	3101	1/1	0.97	0.37	49,49,49,49	0
59	MG	BA	3102	1/1	0.97	0.45	31,31,31,31	0
59	MG	BA	3104	1/1	0.97	0.54	38,38,38,38	0
59	MG	BA	3026	1/1	0.97	0.40	19,19,19,19	0
59	MG	AA	1614	1/1	0.97	0.11	85,85,85,85	0
59	MG	DA	3361	1/1	0.97	0.19	42,42,42,42	0
59	MG	BA	3443	1/1	0.97	0.40	37,37,37,37	0
59	MG	DA	3122	1/1	0.97	0.32	47,47,47,47	0
59	MG	BA	3235	1/1	0.97	0.44	29,29,29,29	0
59	MG	BA	3445	1/1	0.97	0.39	36,36,36,36	0
59	MG	DA	3129	1/1	0.97	0.26	34,34,34,34	0
59	MG	CA	1617	1/1	0.97	0.34	51,51,51,51	0
59	MG	DA	3242	1/1	0.97	0.38	36,36,36,36	0
59	MG	DA	3369	1/1	0.97	0.16	58,58,58,58	0
59	MG	DA	3131	1/1	0.97	0.47	26,26,26,26	0
59	MG	AA	1605	1/1	0.97	0.46	37,37,37,37	0
59	MG	BA	3387	1/1	0.97	0.14	42,42,42,42	0
59	MG	AX	103	1/1	0.97	0.27	52,52,52,52	0
59	MG	BA	3031	1/1	0.97	0.31	25,25,25,25	0
59	MG	BA	3196	1/1	0.97	0.13	56,56,56,56	0
59	MG	BA	3243	1/1	0.97	0.20	52,52,52,52	0
59	MG	DA	3138	1/1	0.97	0.59	34,34,34,34	0
59	MG	CA	1757	1/1	0.97	0.64	60,60,60,60	0
59	MG	BA	3032	1/1	0.97	0.52	45,45,45,45	0
59	MG	DA	3012	1/1	0.97	0.35	45,45,45,45	0
59	MG	BA	3337	1/1	0.97	0.21	80,80,80,80	0
59	MG	BA	3455	1/1	0.97	0.19	59,59,59,59	0
59	MG	DA	3016	1/1	0.97	0.30	18,18,18,18	0
59	MG	DA	3257	1/1	0.97	0.30	21,21,21,21	0
59	MG	BA	3395	1/1	0.97	0.16	37,37,37,37	0
59	MG	BA	3075	1/1	0.97	0.28	21,21,21,21	0
59	MG	DA	3389	1/1	0.97	0.25	24,24,24,24	0
59	MG	CA	1630	1/1	0.97	0.19	120,120,120,120	0
59	MG	CA	1764	1/1	0.97	0.55	29,29,29,29	0
59	MG	DA	3262	1/1	0.97	0.42	51,51,51,51	0
59	MG	DA	3027	1/1	0.97	0.26	32,32,32,32	0
59	MG	AA	1769	1/1	0.97	0.26	71,71,71,71	0
59	MG	CA	1632	1/1	0.97	0.18	54,54,54,54	0
59	MG	DA	3266	1/1	0.97	0.49	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BB	202	1/1	0.97	0.17	98,98,98,98	0
59	MG	BA	3115	1/1	0.97	0.22	48,48,48,48	0
59	MG	CA	1635	1/1	0.97	0.45	35,35,35,35	0
59	MG	BA	3078	1/1	0.97	0.61	35,35,35,35	0
59	MG	BA	3117	1/1	0.97	0.39	26,26,26,26	0
59	MG	BB	206	1/1	0.97	0.35	94,94,94,94	0
59	MG	DA	3273	1/1	0.97	0.33	54,54,54,54	0
59	MG	DA	3041	1/1	0.97	0.32	24,24,24,24	0
59	MG	DA	3042	1/1	0.97	0.32	52,52,52,52	0
59	MG	BA	3401	1/1	0.97	0.42	42,42,42,42	0
59	MG	DA	3277	1/1	0.97	0.17	49,49,49,49	0
59	MG	AA	1610	1/1	0.97	0.17	95,95,95,95	0
59	MG	BA	3121	1/1	0.97	0.31	47,47,47,47	0
59	MG	DA	3048	1/1	0.97	0.44	14,14,14,14	0
59	MG	DA	3281	1/1	0.97	0.39	38,38,38,38	0
59	MG	DA	3165	1/1	0.97	0.25	34,34,34,34	0
61	ZN	AN	101	1/1	0.97	0.06	100,100,100,100	0
59	MG	AA	1671	1/1	0.98	0.21	85,85,85,85	0
59	MG	AA	1621	1/1	0.98	0.22	58,58,58,58	0
59	MG	DA	3324	1/1	0.98	0.23	46,46,46,46	0
59	MG	BA	3193	1/1	0.98	0.48	37,37,37,37	0
59	MG	BA	3265	1/1	0.98	0.19	55,55,55,55	0
59	MG	BA	3077	1/1	0.98	0.39	52,52,52,52	0
59	MG	DA	3066	1/1	0.98	0.38	23,23,23,23	0
59	MG	BA	3195	1/1	0.98	0.48	42,42,42,42	0
59	MG	BA	3268	1/1	0.98	0.22	48,48,48,48	0
59	MG	BA	3052	1/1	0.98	0.35	58,58,58,58	0
59	MG	DA	3239	1/1	0.98	0.21	35,35,35,35	0
59	MG	CA	1607	1/1	0.98	0.26	59,59,59,59	0
59	MG	BA	3053	1/1	0.98	0.22	47,47,47,47	0
59	MG	BA	3106	1/1	0.98	0.16	62,62,62,62	0
59	MG	AA	1720	1/1	0.98	0.26	59,59,59,59	0
59	MG	BA	3452	1/1	0.98	0.39	51,51,51,51	0
59	MG	D5	101	1/1	0.98	0.14	44,44,44,44	0
59	MG	BA	3033	1/1	0.98	0.23	37,37,37,37	0
59	MG	DA	3340	1/1	0.98	0.12	84,84,84,84	0
59	MG	DA	3077	1/1	0.98	0.36	21,21,21,21	0
59	MG	DA	3078	1/1	0.98	0.41	33,33,33,33	0
59	MG	DA	3161	1/1	0.98	0.34	37,37,37,37	0
59	MG	AA	1753	1/1	0.98	0.52	22,22,22,22	0
59	MG	CA	1769	1/1	0.98	0.42	35,35,35,35	0
59	MG	BA	3403	1/1	0.98	0.44	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3355	1/1	0.98	0.21	60,60,60,60	0
59	MG	BA	3406	1/1	0.98	0.12	72,72,72,72	0
59	MG	BA	3023	1/1	0.98	0.28	41,41,41,41	0
59	MG	AA	1608	1/1	0.98	0.35	45,45,45,45	0
59	MG	BA	3238	1/1	0.98	0.37	42,42,42,42	0
59	MG	BA	3359	1/1	0.98	0.23	78,78,78,78	0
59	MG	BA	3318	1/1	0.98	0.16	46,46,46,46	0
59	MG	BA	3239	1/1	0.98	0.38	35,35,35,35	0
59	MG	DA	3013	1/1	0.98	0.32	26,26,26,26	0
59	MG	DA	3174	1/1	0.98	0.28	37,37,37,37	0
59	MG	DA	3175	1/1	0.98	0.22	38,38,38,38	0
59	MG	BA	3141	1/1	0.98	0.31	32,32,32,32	0
59	MG	DA	3177	1/1	0.98	0.47	25,25,25,25	0
59	MG	AA	1612	1/1	0.98	0.35	50,50,50,50	0
59	MG	DA	3179	1/1	0.98	0.23	37,37,37,37	0
59	MG	DA	3096	1/1	0.98	0.23	31,31,31,31	0
59	MG	DA	3097	1/1	0.98	0.41	19,19,19,19	0
59	MG	CA	1781	1/1	0.98	0.23	40,40,40,40	0
59	MG	BA	3061	1/1	0.98	0.23	42,42,42,42	0
59	MG	BA	3283	1/1	0.98	0.23	29,29,29,29	0
59	MG	BA	3040	1/1	0.98	0.30	54,54,54,54	0
59	MG	DA	3021	1/1	0.98	0.42	25,25,25,25	0
59	MG	DA	3023	1/1	0.98	0.56	31,31,31,31	0
59	MG	DA	3025	1/1	0.98	0.40	22,22,22,22	0
59	MG	CA	1628	1/1	0.98	0.25	33,33,33,33	0
59	MG	CA	1786	1/1	0.98	0.71	35,35,35,35	0
59	MG	DA	3028	1/1	0.98	0.55	23,23,23,23	0
59	MG	DA	3029	1/1	0.98	0.30	28,28,28,28	0
59	MG	DA	3031	1/1	0.98	0.45	32,32,32,32	0
59	MG	DA	3376	1/1	0.98	0.14	56,56,56,56	0
59	MG	DA	3377	1/1	0.98	0.40	23,23,23,23	0
59	MG	BA	3175	1/1	0.98	0.33	52,52,52,52	0
59	MG	DA	3112	1/1	0.98	0.35	22,22,22,22	0
59	MG	AA	1687	1/1	0.98	0.16	84,84,84,84	0
59	MG	BA	3027	1/1	0.98	0.23	29,29,29,29	0
59	MG	DA	3115	1/1	0.98	0.43	27,27,27,27	0
59	MG	B7	101	1/1	0.98	0.17	39,39,39,39	0
59	MG	CA	1684	1/1	0.98	0.13	79,79,79,79	0
59	MG	BA	3148	1/1	0.98	0.80	24,24,24,24	0
59	MG	DA	3119	1/1	0.98	0.38	44,44,44,44	0
59	MG	BA	3373	1/1	0.98	0.15	73,73,73,73	0
59	MG	BA	3374	1/1	0.98	0.26	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3375	1/1	0.98	0.19	47,47,47,47	0
59	MG	DA	3123	1/1	0.98	0.23	49,49,49,49	0
59	MG	BA	3120	1/1	0.98	0.20	38,38,38,38	0
59	MG	DA	3125	1/1	0.98	0.22	43,43,43,43	0
59	MG	DA	3126	1/1	0.98	0.42	25,25,25,25	0
59	MG	DA	3043	1/1	0.98	0.18	26,26,26,26	0
59	MG	DA	3128	1/1	0.98	0.22	28,28,28,28	0
59	MG	DA	3212	1/1	0.98	0.33	45,45,45,45	0
59	MG	BA	3150	1/1	0.98	0.69	37,37,37,37	0
59	MG	BA	3378	1/1	0.98	0.18	68,68,68,68	0
59	MG	BA	3215	1/1	0.98	0.34	47,47,47,47	0
59	MG	BA	3091	1/1	0.98	0.25	38,38,38,38	0
59	MG	DA	3217	1/1	0.98	0.11	40,40,40,40	0
59	MG	DB	210	1/1	0.98	0.07	88,88,88,88	0
59	MG	BA	3044	1/1	0.98	0.42	70,70,70,70	0
59	MG	DA	3310	1/1	0.98	0.51	27,27,27,27	0
59	MG	BA	3123	1/1	0.98	0.26	34,34,34,34	0
59	MG	BA	3046	1/1	0.98	0.27	39,39,39,39	0
59	MG	BA	3069	1/1	0.98	0.48	29,29,29,29	0
59	MG	DA	3223	1/1	0.98	0.47	19,19,19,19	0
59	MG	BA	3070	1/1	0.98	0.40	21,21,21,21	0
59	MG	BA	3047	1/1	0.98	0.30	37,37,37,37	0
59	MG	AA	1778	1/1	0.98	0.50	71,71,71,71	0
59	MG	DA	3057	1/1	0.98	0.36	28,28,28,28	0
59	MG	DA	3059	1/1	0.98	0.34	38,38,38,38	0
59	MG	BA	3074	1/1	0.98	0.22	30,30,30,30	0
61	ZN	B9	101	1/1	0.98	0.07	91,91,91,91	0
59	MG	DA	3219	1/1	0.99	0.32	26,26,26,26	0
59	MG	BA	3119	1/1	0.99	0.18	41,41,41,41	0
59	MG	BA	3103	1/1	0.99	0.27	42,42,42,42	0
59	MG	BA	3240	1/1	0.99	0.24	28,28,28,28	0
59	MG	DA	3017	1/1	0.99	0.34	29,29,29,29	0
59	MG	DA	3079	1/1	0.99	0.34	30,30,30,30	0
59	MG	DA	3047	1/1	0.99	0.26	16,16,16,16	0
59	MG	AA	1632	1/1	0.99	0.23	77,77,77,77	0
59	MG	BA	3064	1/1	0.99	0.20	37,37,37,37	0
59	MG	AA	1734	1/1	0.99	0.19	75,75,75,75	0
59	MG	AA	1622	1/1	0.99	0.08	61,61,61,61	0
59	MG	DA	3022	1/1	0.99	0.43	17,17,17,17	0
59	MG	BA	3045	1/1	0.99	0.38	38,38,38,38	0
59	MG	DA	3024	1/1	0.99	0.30	19,19,19,19	0
59	MG	DA	3309	1/1	0.99	0.08	67,67,67,67	0

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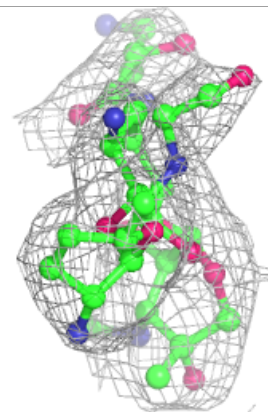
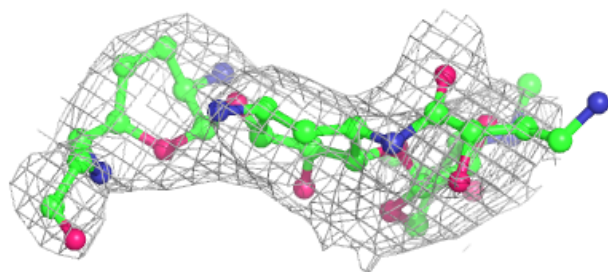
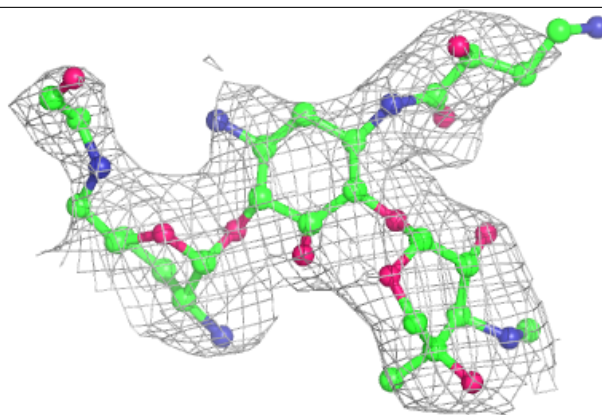
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3055	1/1	0.99	0.22	54,54,54,54	0
59	MG	BA	3056	1/1	0.99	0.37	31,31,31,31	0
59	MG	DA	3090	1/1	0.99	0.30	31,31,31,31	0
59	MG	BA	3037	1/1	0.99	0.51	28,28,28,28	0
59	MG	DA	3058	1/1	0.99	0.29	29,29,29,29	0
59	MG	BA	3361	1/1	0.99	0.11	42,42,42,42	0
59	MG	BA	3426	1/1	0.99	0.26	67,67,67,67	0
59	MG	DA	3095	1/1	0.99	0.59	24,24,24,24	0
59	MG	BA	3038	1/1	0.99	0.48	32,32,32,32	0
59	MG	DA	3030	1/1	0.99	0.35	28,28,28,28	0
59	MG	BA	3404	1/1	0.99	0.38	46,46,46,46	0
59	MG	DA	3099	1/1	0.99	0.41	33,33,33,33	0
59	MG	BA	3097	1/1	0.99	0.30	46,46,46,46	0
59	MG	AA	1609	1/1	0.99	0.21	80,80,80,80	0
59	MG	DA	3034	1/1	0.99	0.28	36,36,36,36	0
59	MG	BA	3407	1/1	0.99	0.14	54,54,54,54	0
59	MG	BA	3114	1/1	0.99	0.13	49,49,49,49	0
59	MG	BA	3072	1/1	0.99	0.23	31,31,31,31	0
59	MG	BA	3049	1/1	0.99	0.26	35,35,35,35	0
59	MG	BA	3020	1/1	0.99	0.20	49,49,49,49	0
59	MG	AA	1728	1/1	0.99	0.29	88,88,88,88	0
59	MG	DA	3291	1/1	0.99	0.26	44,44,44,44	0
59	MG	DA	3292	1/1	0.99	0.18	21,21,21,21	0
61	ZN	AD	302	1/1	0.99	0.26	64,64,64,64	0
59	MG	BA	3274	1/1	0.99	0.15	58,58,58,58	0
59	MG	BA	3391	1/1	0.99	0.30	44,44,44,44	0
61	ZN	CD	301	1/1	0.99	0.31	68,68,68,68	0
61	ZN	CN	101	1/1	0.99	0.09	77,77,77,77	0
61	ZN	D9	101	1/1	0.99	0.05	75,75,75,75	0
59	MG	DA	3312	1/1	1.00	0.10	46,46,46,46	0

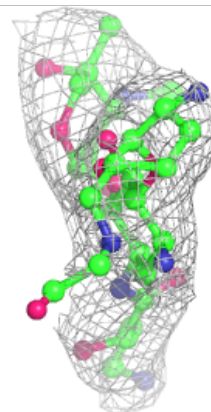
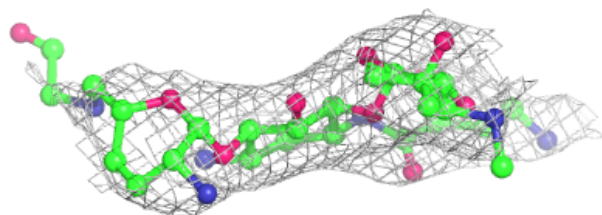
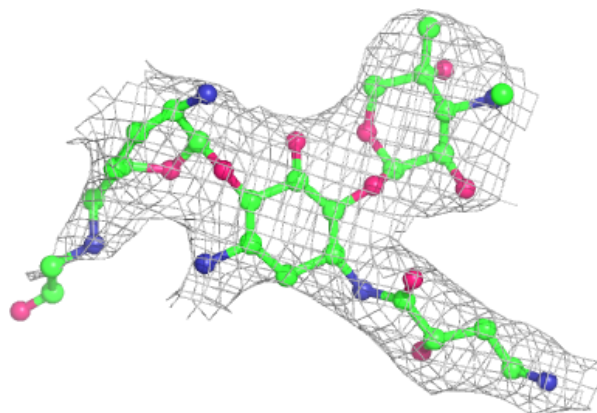
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation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

Electron density around EDS AA 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 EDS CA 1787:**

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



6.5 Other polymers [i](#)

There are no such residues in this entry.