



wwPDB X-ray Structure Validation Summary Report ⓘ

Sep 14, 2023 – 05:58 AM EDT

PDB ID : 4V6A
Title : Structure of EF-P bound to the 70S ribosome.
Authors : Stanley, R.E.; Blaha, G.
Deposited on : 2009-06-15
Resolution : 3.10 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
Xtriage (Phenix) : 1.13
EDS : 2.35.1
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

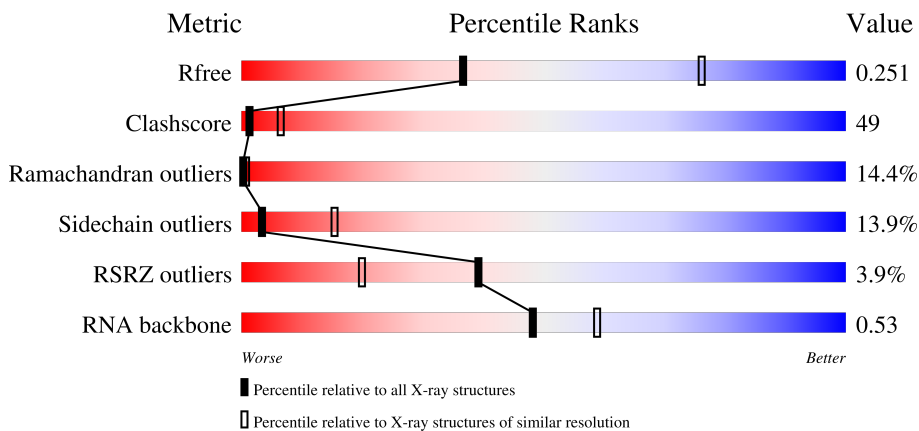
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 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	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)
RNA backbone	3102	1116 (3.40-2.80)

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	1509	 3% 17% 67% 14% 8%
1	CA	1509	 2% 21% 65% 13% 8%
2	AB	256	 7% 12% 59% 19% 8%
2	CB	256	 9% 15% 56% 19% 8%

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Mol	Chain	Length	Quality of chain
3	AC	239	5% 14% 56% 15% 13%
3	CC	239	8% 16% 58% 12% 13%
4	AD	209	13% 64% 20%
4	CD	209	2% 25% 56% 17%
5	AE	162	6% 19% 60% 13% 7%
5	CE	162	3% 23% 59% 9% 7%
6	AF	101	24% 58% 16%
6	CF	101	2% 21% 57% 21%
7	AG	156	5% 18% 66% 14% ..
7	CG	156	8% 18% 60% 19% ..
8	AH	138	22% 63% 14%
8	CH	138	3% 20% 62% 17%
9	AI	128	9% 15% 64% 19% ..
9	CI	128	22% 19% 62% 14% 5%
10	AJ	105	14% 14% 60% 18% 6%
10	CJ	105	43% 15% 62% 17% 6%
11	AK	129	8% 26% 59% 6% 8%
11	CK	129	3% 29% 53% 11% 8%
12	AL	132	2% 24% 53% 16% 5%
12	CL	132	5% 26% 55% 13% 5%
13	AM	126	6% 15% 54% 22% 5%
13	CM	126	6% 18% 50% 23% 5%
14	AN	61	3% 15% 57% 25% ..
14	CN	61	2% 18% 61% 16% ..
15	AO	89	18% 70% 10% ..

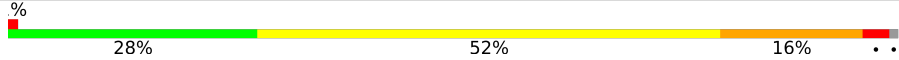
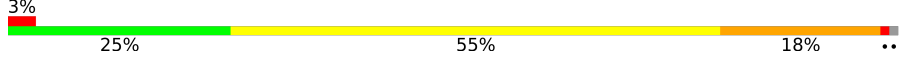
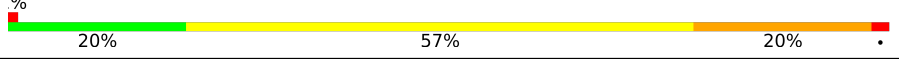
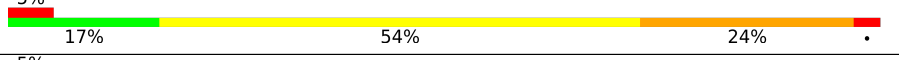
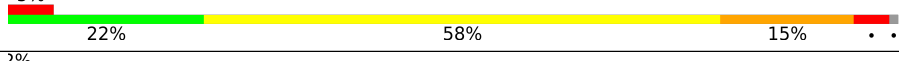
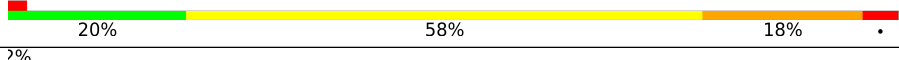
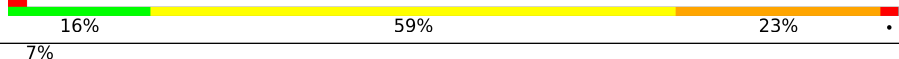
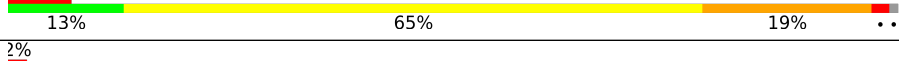
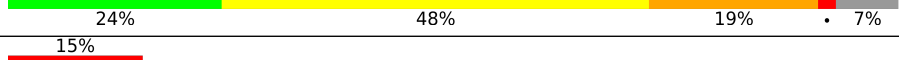

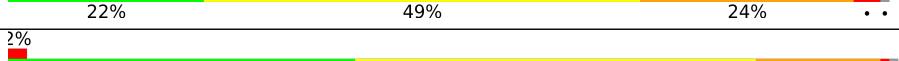
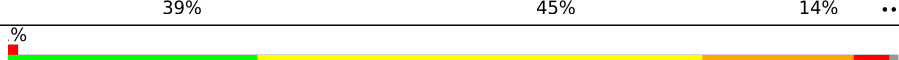
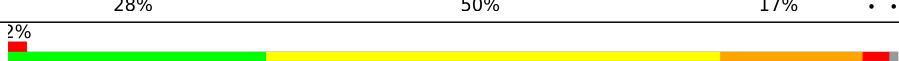
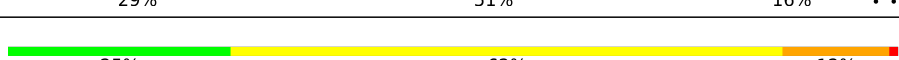
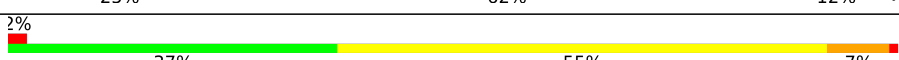
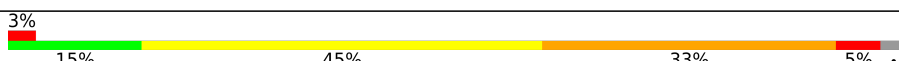
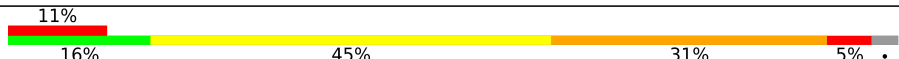
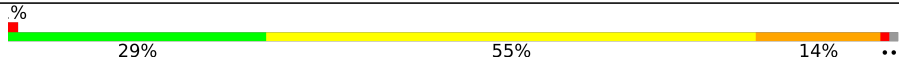


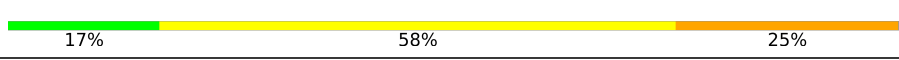


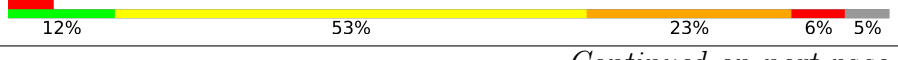

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Mol	Chain	Length	Quality of chain
15	CO	89	18% 62% 19%
16	AP	88	7% 16% 64% 14% 5%
16	CP	88	2% 18% 64% 13% 5%
17	AQ	105	2% 24% 55% 15% 5%
17	CQ	105	29% 57% 7% 5%
18	AR	88	16% 51% 10% 20%
18	CR	88	5% 18% 49% 11% 20%
19	AS	93	5% 12% 48% 24% 14%
19	CS	93	10% 12% 54% 16% 16%
20	AT	106	6% 16% 60% 16% 7%
20	CT	106	5% 14% 61% 17% 7%
21	AU	27	19% 22% 59% 11% 7%
21	CU	27	22% 30% 48% 15% 7%
22	AV	184	2% 23% 61% 11% 2%
22	CV	184	7% 24% 55% 16% 2%
23	AW	77	3% 26% 53% 18% 2%
23	CW	77	22% 51% 26% 2%
24	AX	5	100%
24	CX	5	20% 40% 60%
25	BA	2915	2% 26% 52% 15% 5%
25	DA	2915	2% 22% 55% 16% 5%
26	BB	122	39% 43% 15% 2%
26	DB	122	2% 18% 62% 16% 2%
27	BC	229	7% 22% 59% 15% 2%
27	DC	229	10% 27% 59% 10% 2%

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Mol	Chain	Length	Quality of chain
28	BD	276	 28% 52% 16% ..
28	DD	276	 3% 25% 55% 18% ..
29	BE	206	 20% 57% 20% .
29	DE	206	 5% 17% 54% 24% .
30	BF	210	 5% 22% 58% 15% ..
30	DF	210	 2% 20% 58% 18% ..
31	BG	182	 2% 16% 59% 23% ..
31	DG	182	 7% 13% 65% 19% ..
32	BH	180	 2% 24% 48% 19% . 7%
32	DH	180	 15% 19% 48% 19% . 11%
33	BI	148	 22% 49% 24% ..
33	DI	148	 2% 39% 45% 14% ..
34	BN	140	 28% 50% 17% ..
34	DN	140	 2% 29% 51% 16% ..
35	BO	122	 25% 62% 12% .
35	DO	122	 2% 37% 55% 7% .
36	BP	150	 3% 15% 45% 33% 5% .
36	DP	150	 11% 16% 45% 31% 5% .
37	BQ	141	 29% 55% 14% ..
37	DQ	141	 4% 27% 59% 13% .
38	BR	118	 28% 55% 15% .
38	DR	118	 17% 58% 25% .
39	BS	112	 10% 19% 36% 31% . 10%
39	DS	112	 12% 13% 46% 25% . 12%
40	BT	146	 5% 12% 53% 23% 6% 5%




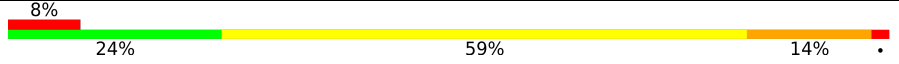
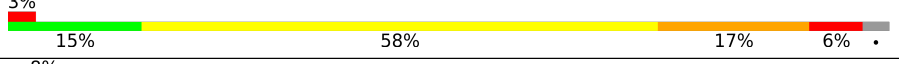
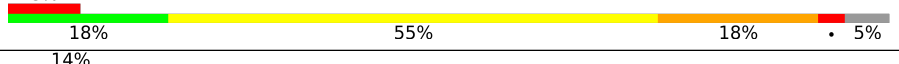


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Mol	Chain	Length	Quality of chain
40	DT	146	4% 12% 51% 27% 5%
41	BU	118	3% 35% 51% 11% ..
41	DU	118	3% 19% 63% 16% ..
42	BV	101	% 26% 46% 23% 6%
42	DV	101	3% 13% 58% 25% .
43	BW	113	% 34% 50% 14% .
43	DW	113	% 20% 67% 12% .
44	BX	96	33% 51% 12% ..
44	DX	96	4% 19% 64% 14% ..
45	BY	110	3% 13% 43% 29% 7% 8%
45	DY	110	7% 5% 53% 25% 9% 8%
46	BZ	206	% 22% 50% 12% . 12%
46	DZ	206	7% 12% 55% 17% . 14%
47	B0	85	2% 26% 58% 7% 9%
47	D0	85	7% 28% 55% 14% ..
48	B1	98	20% 54% 22% ..
48	D1	98	6% 28% 53% 15% .
49	B2	72	31% 53% 12% ..
49	D2	72	3% 14% 62% 19% ..
50	B3	60	8% 37% 53% 8% .
50	D3	60	13% 17% 68% 15%
51	B4	71	% 7% 23% 13% . 56%
51	D4	71	3% 13% 20% 11% 56%
52	B5	60	22% 42% 27% 5% 5%
52	D5	60	8% 33% 38% 23% ..

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Mol	Chain	Length	Quality of chain
53	B6	54	
53	D6	54	
54	B7	49	
54	D7	49	
55	B8	65	
55	D8	65	
56	B9	37	
56	D9	37	

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
57	MG	AA	1604	-	-	-	X
57	MG	AA	1611	-	-	-	X
57	MG	AA	1619	-	-	-	X
57	MG	AA	1664	-	-	-	X
57	MG	BA	3022	-	-	-	X
57	MG	BA	3038	-	-	-	X
57	MG	BA	3052	-	-	-	X
57	MG	BA	3086	-	-	-	X
57	MG	BA	3118	-	-	-	X
57	MG	BA	3139	-	-	-	X
57	MG	BA	3188	-	-	-	X
57	MG	BA	3268	-	-	-	X
57	MG	BA	3300	-	-	-	X
57	MG	BA	3323	-	-	-	X
57	MG	BA	3355	-	-	-	X
57	MG	BA	3388	-	-	-	X
57	MG	BA	3432	-	-	-	X
57	MG	BA	3442	-	-	-	X
57	MG	BA	3444	-	-	-	X
57	MG	BA	3448	-	-	-	X
57	MG	BP	201	-	-	-	X
57	MG	CA	1608	-	-	-	X
57	MG	CA	1652	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
57	MG	CA	1708	-	-	-	X
57	MG	CW	102	-	-	-	X
57	MG	DA	3033	-	-	-	X
57	MG	DA	3072	-	-	-	X
57	MG	DA	3094	-	-	-	X
57	MG	DA	3108	-	-	-	X
57	MG	DA	3111	-	-	-	X
57	MG	DA	3144	-	-	-	X
57	MG	DA	3164	-	-	-	X
57	MG	DA	3175	-	-	-	X
57	MG	DA	3195	-	-	-	X
57	MG	DA	3267	-	-	-	X
57	MG	DB	208	-	-	-	X
58	ZN	AD	301	-	-	-	X
58	ZN	D9	101	-	-	X	-

2 Entry composition

There are 58 unique types of molecules in this entry. The entry contains 290405 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	1495	Total	C	N	O	P	0	0	0
			32144	14306	5964	10379	1495			
1	CA	1504	Total	C	N	O	P	0	0	0
			32332	14390	5992	10446	1504			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			
2	CB	235	Total	C	N	O	S	0	0	1
			1901	1213	342	341	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			
3	CC	207	Total	C	N	O	S	0	0	1
			1613	1016	315	281	1			

- 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	C	N	O	S	0	0	0
			1703	1066	339	291	7			
4	CD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	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	127	Total	C	N	O	0	0	0
			1004	635	195	174			
9	CI	127	Total	C	N	O	0	0	0
			1004	635	195	174			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	CJ	99	795	499	157	138	1	0	0	1

- 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	125	971	611	196	163	1	0	0	1
12	CL	125	971	611	196	163	1	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AM	120	947	585	196	164	2	0	0	1
13	CM	120	947	585	196	164	2	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
14	AN	60	492	312	104	72	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	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	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	80	Total	C	N	O	S	0	0	1
			613	392	110	109	2			
19	CS	78	Total	C	N	O	S	0	0	1
			619	397	111	109	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	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a protein called Elongation factor P.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	176	Total	C	N	O	S	0	0	0
			1367	870	223	267	7			
22	CV	176	Total	C	N	O	S	0	0	0
			1367	870	223	267	7			

- Molecule 23 is a RNA chain called tRNA-Met.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	77	Total	C	N	O	P	0	0	0
			1644	732	297	538	77			
23	CW	77	Total	C	N	O	P	0	0	0
			1644	732	297	538	77			

- Molecule 24 is a RNA chain called RNA (5'-R(P*AP*AP*AP*UP*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	5	Total	C	N	O	P	0	0	0
			110	49	22	34	5			
24	CX	5	Total	C	N	O	P	0	0	0
			110	49	22	34	5			

- Molecule 25 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2767	Total	C	N	O	P	0	0	0
			59596	26524	11148	19158	2766			
25	DA	2777	Total	C	N	O	P	0	0	0
			59809	26619	11186	19228	2776			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
26	DB	119	2551	1136	471	826	118	0	0	0

- Molecule 27 is a protein called 50S ribosomal protein L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
27	BC	224	1702	1075	309	315	3	2	0	0
27	DC	220	1640	1033	297	307	3	1	0	0

- Molecule 28 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
28	BD	274	2127	1341	425	358	3	0	0	1
28	DD	274	2115	1335	419	358	3	0	0	1

- Molecule 29 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
29	BE	205	1564	988	300	270	6	0	0	1
29	DE	205	1564	988	300	270	6	0	0	1

- Molecule 30 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
30	BF	208	1624	1035	304	282	3	0	0	1
30	DF	208	1624	1035	304	282	3	0	0	1

- Molecule 31 is a protein called 50S ribosomal protein L5.

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

- Molecule 32 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BH	168	Total	C	N	O	S	0	0	1
			1231	780	228	222	1			
32	DH	160	Total	C	N	O	S	0	0	1
			1223	773	229	220	1			

- Molecule 33 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BI	146	Total	C	N	O	S	0	0	1
			1043	661	185	196	1			
33	DI	146	Total	C	N	O	S	0	0	1
			871	543	162	165	1			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			
34	DN	139	Total	C	N	O	S	0	0	1
			1105	712	207	182	4			

- Molecule 35 is a protein called 50S ribosomal protein L14.

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

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
36	DP	146	Total	C	N	O	S	0	0	0
			1079	672	216	189	2			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BQ	139	Total	C	N	O	S	0	0	1
			1099	702	209	181	7			
37	DQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BR	116	Total	C	N	O		0	0	0
			923	575	191	157				
38	DR	117	Total	C	N	O		0	0	0
			960	599	202	159				

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BS	101	Total	C	N	O		0	0	1
			777	489	156	132				
39	DS	99	Total	C	N	O		0	0	1
			771	486	155	130				

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			
40	DT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			
41	DU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 42 is a protein called 50S ribosomal protein L21.

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

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

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
43	BW	113	896	563	176	155	2	0	0	0
43	DW	113	896	563	176	155	2	0	0	0

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace	
			Total	C	N	O				
44	BX	94	735	477	134	124		0	0	1
44	DX	93	726	471	132	123		0	0	1

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
45	BY	101	757	486	144	123	4	0	0	1
45	DY	101	776	500	149	123	4	0	0	1

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
46	BZ	182	1438	917	258	261	2	0	0	1
46	DZ	177	1404	897	253	252	2	0	0	1

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
47	B0	77	613	379	129	104	1	0	0	0
47	D0	84	662	410	140	111	1	0	0	0

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
48	B1	96	Total 757	C 478	N 149	O 129	S 1	0	0	0
48	D1	94	Total 732	C 460	N 146	O 125	S 1	0	0	1

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
49	B2	71	Total 598	C 370	N 121	O 106	S 1	0	0	0
49	D2	71	Total 598	C 370	N 121	O 106	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
50	B3	59	Total 460	C 293	N 90	O 77		0	0	1
50	D3	60	Total 468	C 298	N 91	O 78	S 1	0	0	1

- Molecule 51 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	B4	31	Total 226	C 142	N 37	O 43	S 4	0	0	1
51	D4	31	Total 226	C 142	N 37	O 43	S 4	0	0	1

- Molecule 52 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
52	B5	57	Total 435	C 272	N 88	O 70	S 5	0	0	1
52	D5	59	Total 459	C 288	N 90	O 76	S 5	0	0	0

- Molecule 53 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B6	49	Total	C	N	O	S	0	0	1
			401	247	82	68	4			
53	D6	48	Total	C	N	O	S	0	0	0
			322	199	62	57	4			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
54	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B8	63	Total	C	N	O	S	0	0	1
			496	317	101	76	2			
55	D8	62	Total	C	N	O	S	0	0	1
			467	299	95	71	2			

- Molecule 56 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	B9	36	Total	C	N	O	S	0	0	0
			294	179	66	46	3			
56	D9	36	Total	C	N	O	S	0	0	0
			299	183	67	46	3			

- Molecule 57 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	AA	117	Total	Mg	0	0
			117	117		
57	AL	1	Total	Mg	0	0
			1	1		
57	AT	1	Total	Mg	0	0
			1	1		
57	AW	2	Total	Mg	0	0
			2	2		
57	BA	459	Total	Mg	0	0
			459	459		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	BB	9	Total Mg 9 9	0	0
57	BD	1	Total Mg 1 1	0	0
57	BE	1	Total Mg 1 1	0	0
57	BF	1	Total Mg 1 1	0	0
57	BH	1	Total Mg 1 1	0	0
57	BP	3	Total Mg 3 3	0	0
57	BQ	3	Total Mg 3 3	0	0
57	BR	1	Total Mg 1 1	0	0
57	BT	1	Total Mg 1 1	0	0
57	BU	1	Total Mg 1 1	0	0
57	BX	1	Total Mg 1 1	0	0
57	B0	2	Total Mg 2 2	0	0
57	B1	1	Total Mg 1 1	0	0
57	B5	4	Total Mg 4 4	0	0
57	B7	1	Total Mg 1 1	0	0
57	CA	109	Total Mg 109 109	0	0
57	CE	1	Total Mg 1 1	0	0
57	CW	5	Total Mg 5 5	0	0
57	CX	1	Total Mg 1 1	0	0
57	DA	305	Total Mg 305 305	0	0
57	DB	10	Total Mg 10 10	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	DD	1	Total Mg 1 1	0	0
57	DF	1	Total Mg 1 1	0	0
57	DP	1	Total Mg 1 1	0	0
57	DR	1	Total Mg 1 1	0	0
57	D5	2	Total Mg 2 2	0	0
57	D6	2	Total Mg 2 2	0	0

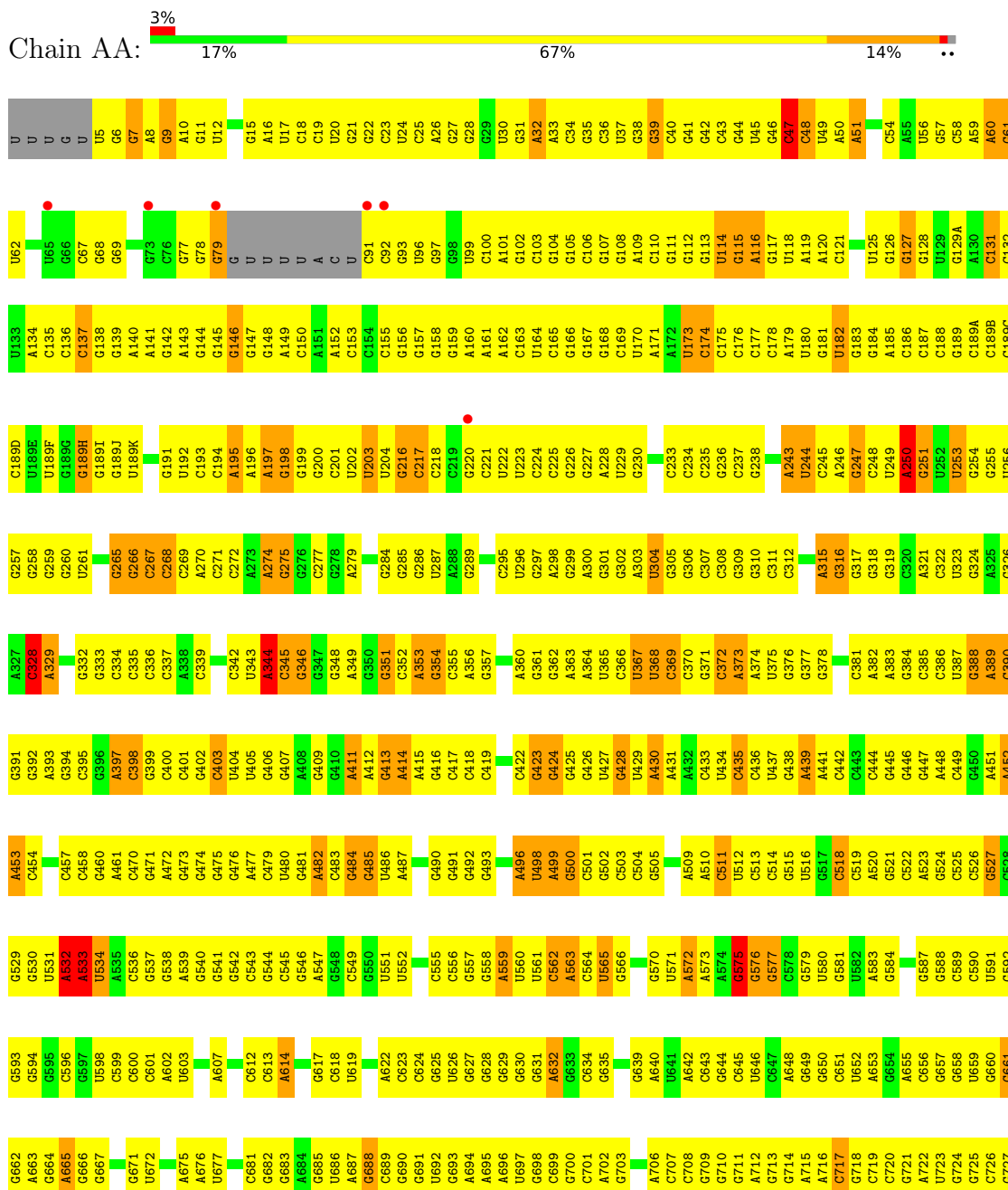
- Molecule 58 is ZINC ION (three-letter code: ZN) (formula: Zn).

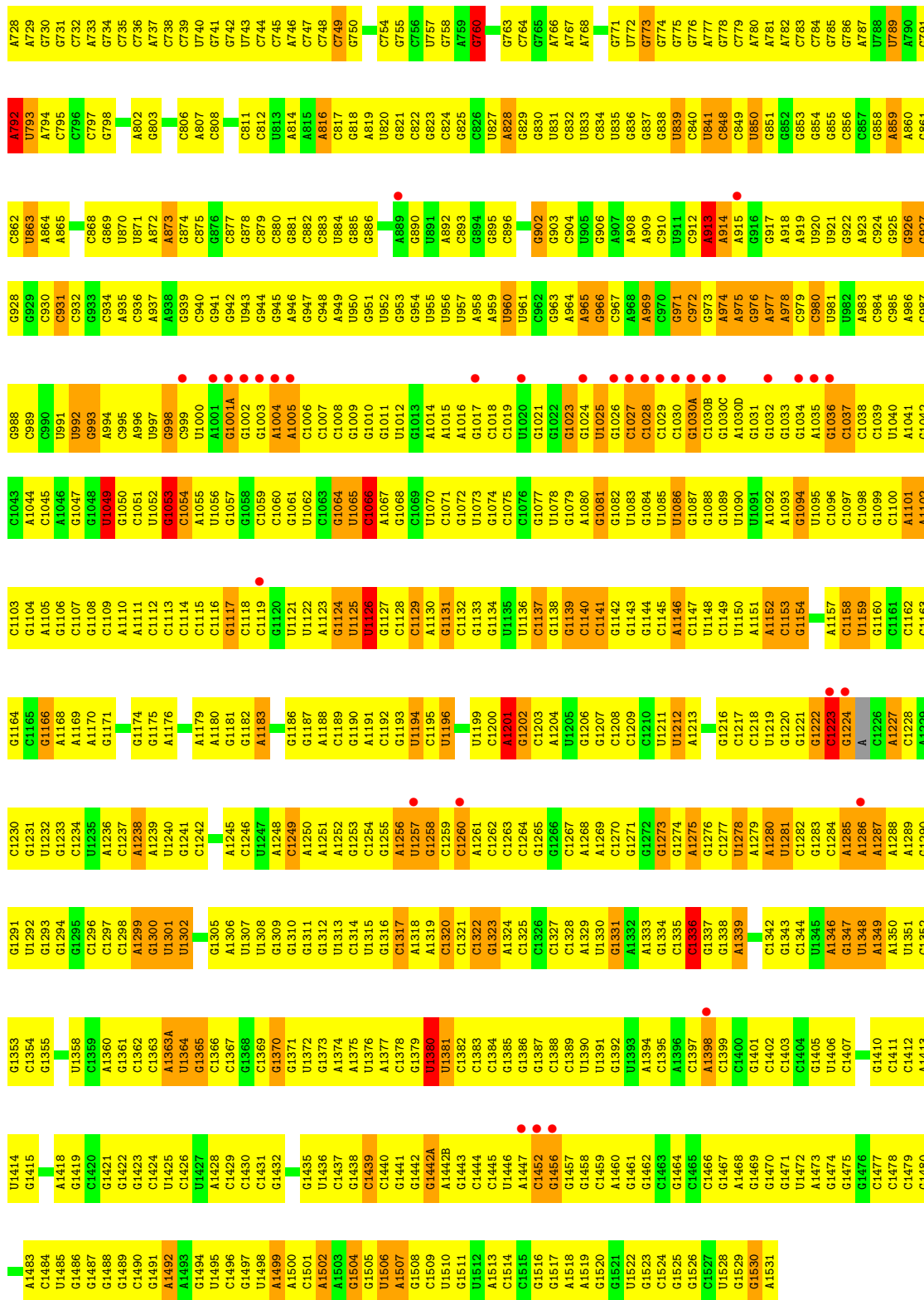
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
58	AD	1	Total Zn 1 1	0	0
58	B5	1	Total Zn 1 1	0	0
58	B9	1	Total Zn 1 1	0	0
58	CD	1	Total Zn 1 1	0	0
58	D5	1	Total Zn 1 1	0	0
58	D9	1	Total Zn 1 1	0	0

3 Residue-property plots

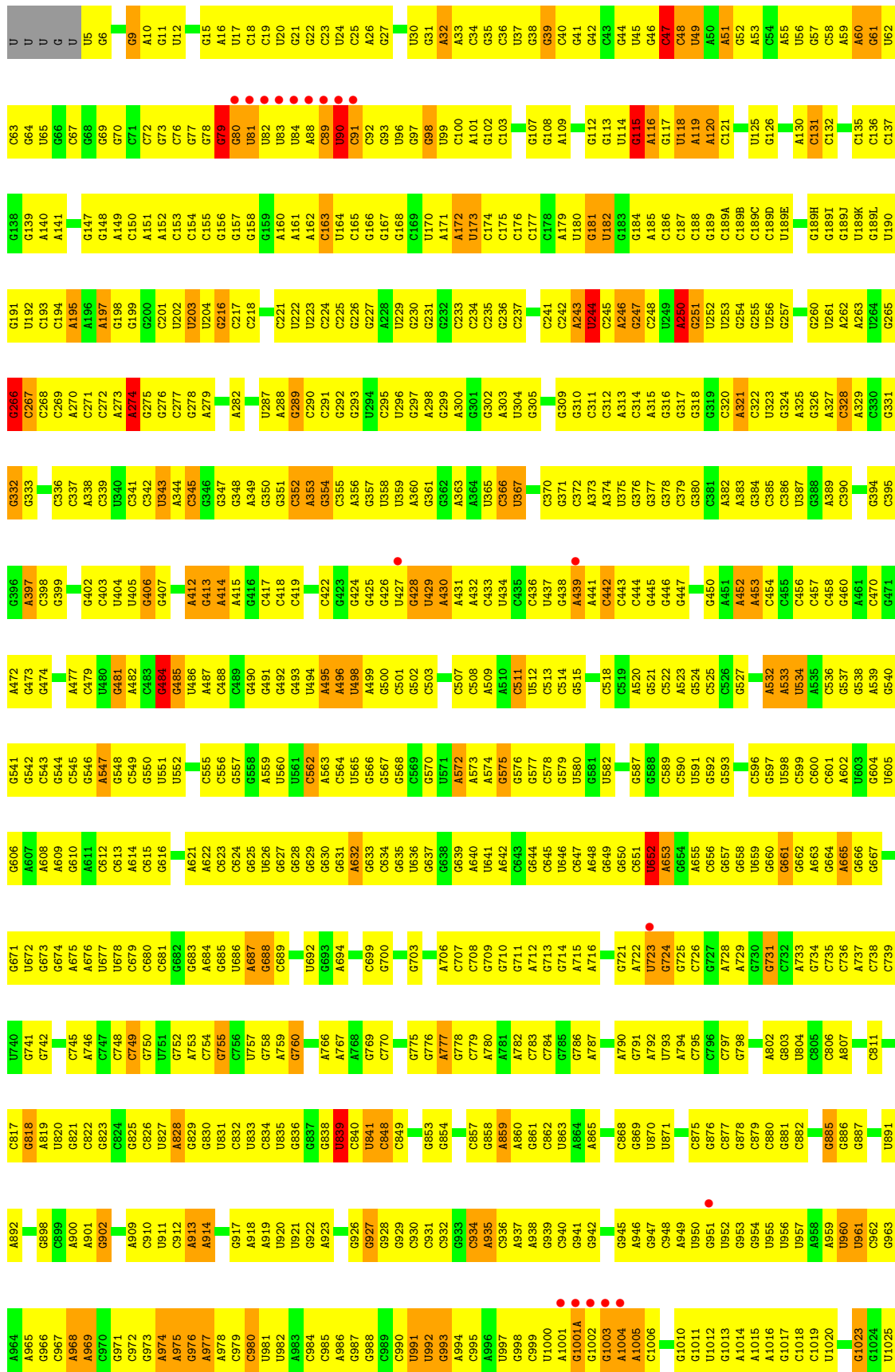
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

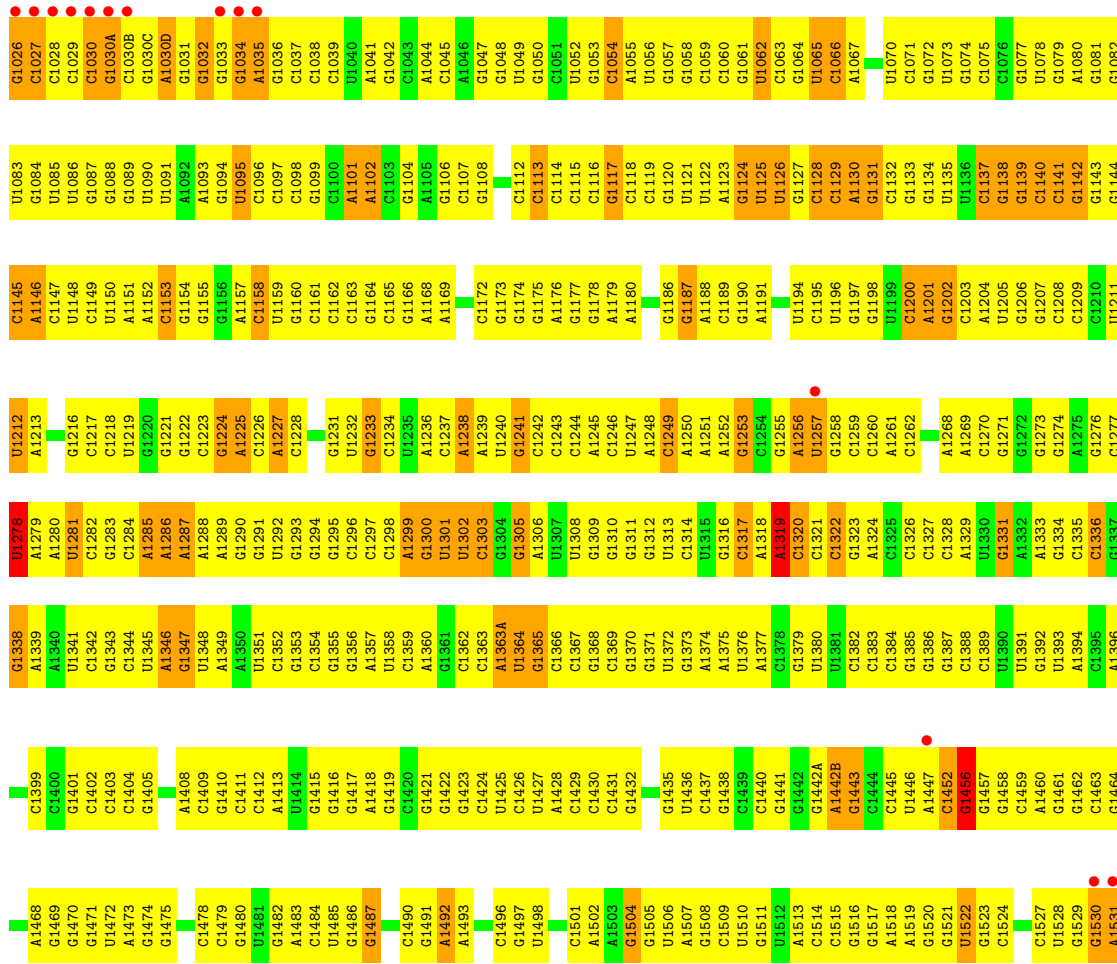
- Molecule 1: 16S ribosomal RNA



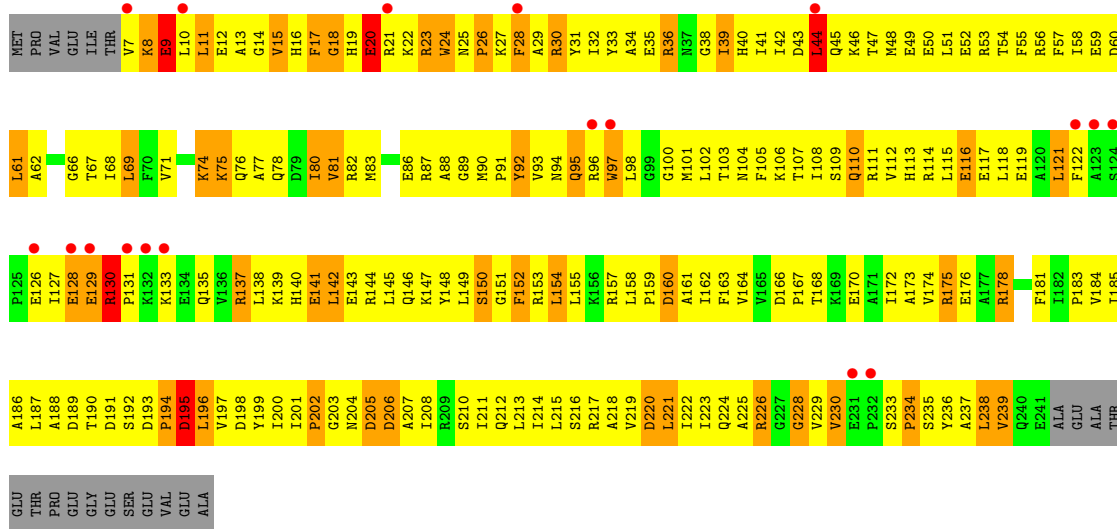
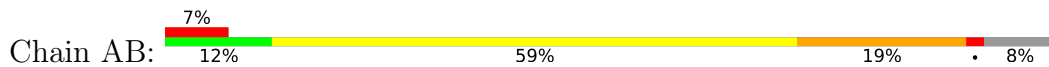


● Molecule 1: 16S ribosomal RNA

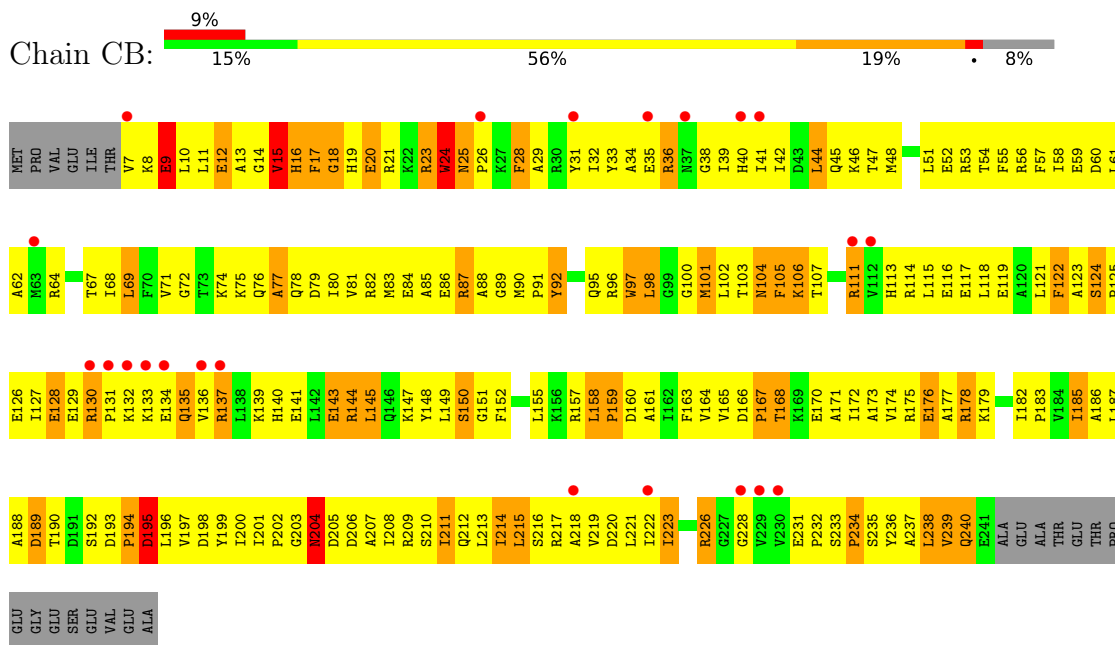




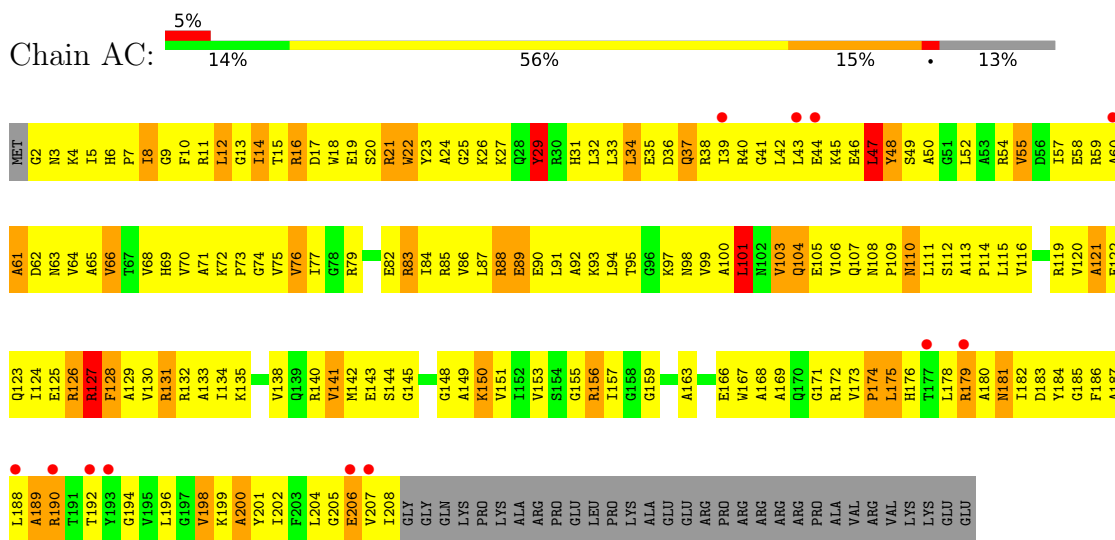
• Molecule 2: 30S ribosomal protein S2



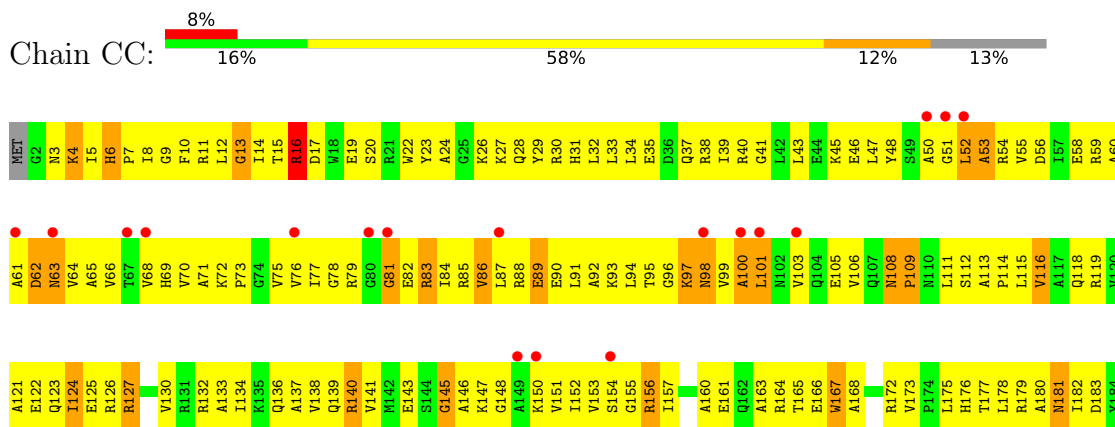
• Molecule 2: 30S ribosomal protein S2

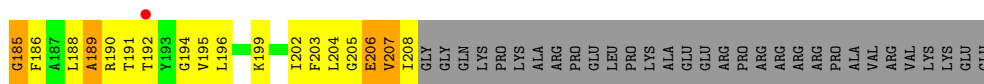


• Molecule 3: 30S ribosomal protein S3

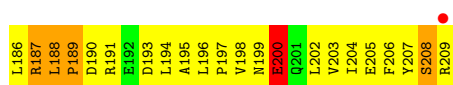
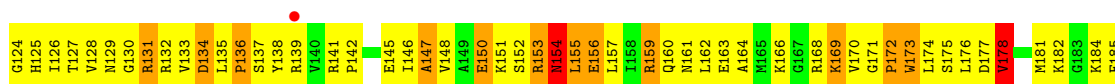
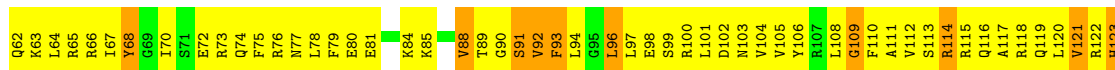


• Molecule 3: 30S ribosomal protein S3

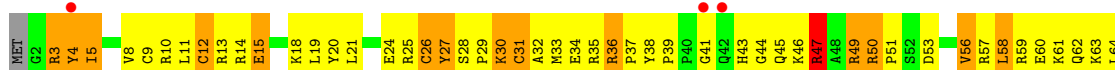




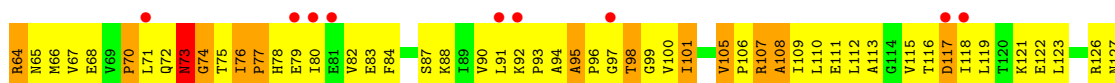
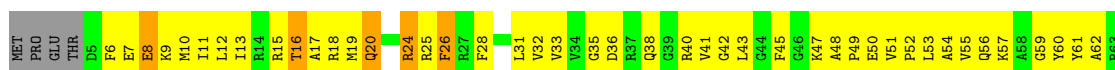
• Molecule 4: 30S ribosomal protein S4

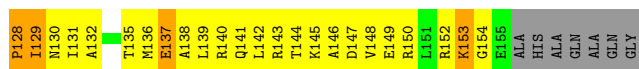


• Molecule 4: 30S ribosomal protein S4

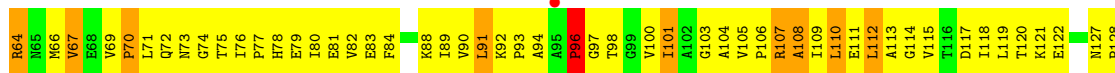


• Molecule 5: 30S ribosomal protein S5

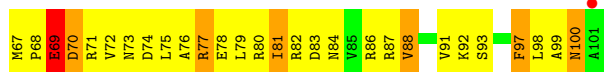
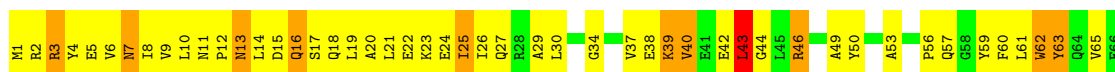




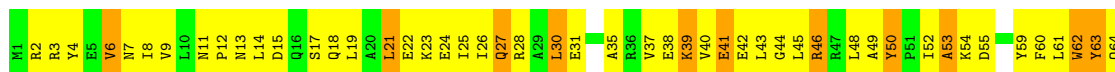
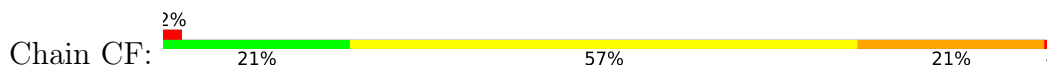
• Molecule 5: 30S ribosomal protein S5



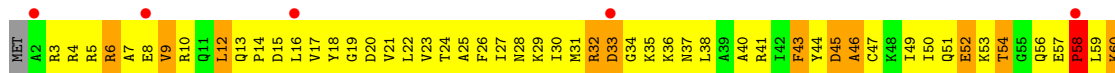
• Molecule 6: 30S ribosomal protein S6



• Molecule 6: 30S ribosomal protein S6

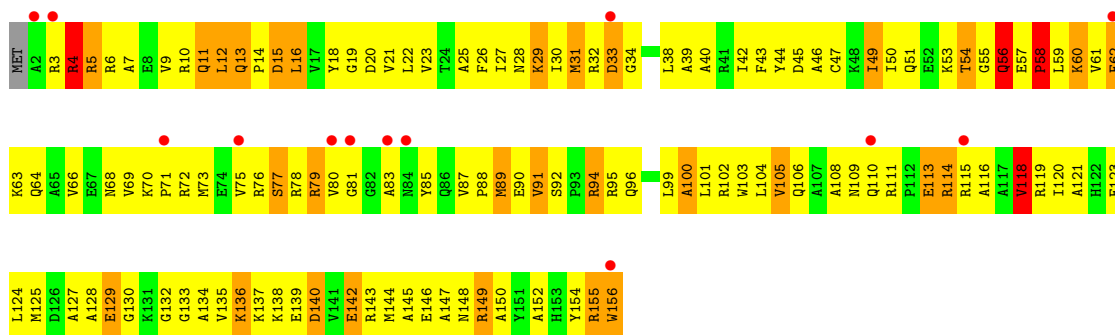


• Molecule 7: 30S ribosomal protein S7

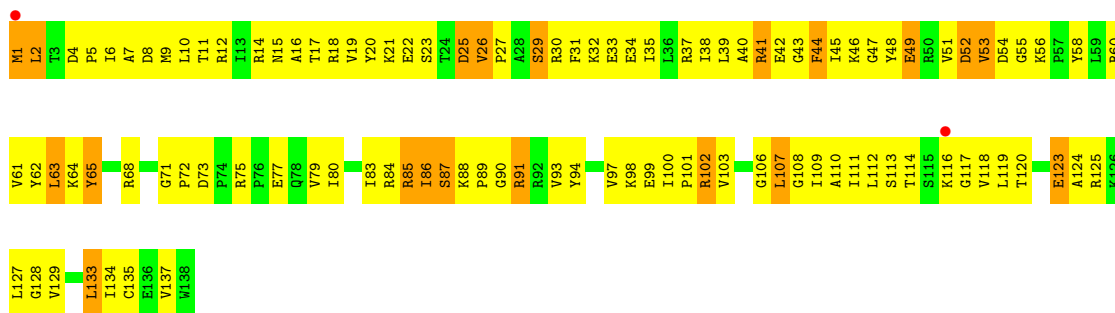




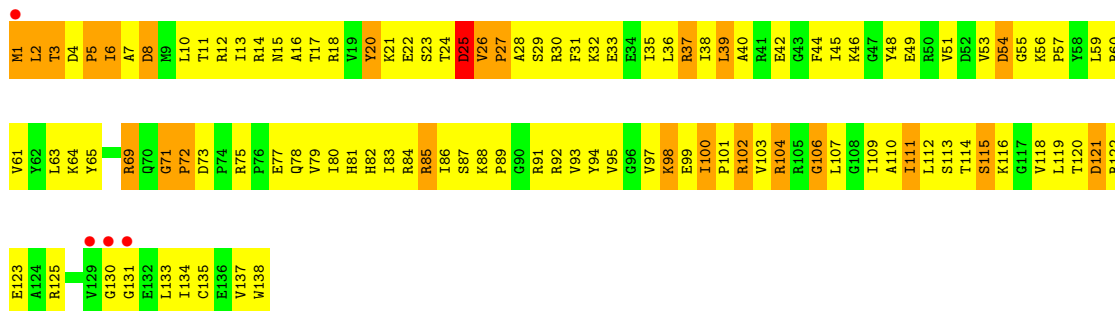
- Molecule 7: 30S ribosomal protein S7



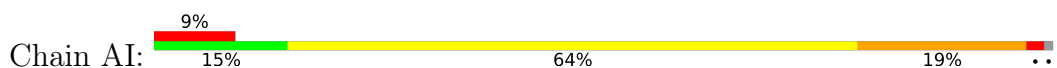
- Molecule 8: 30S ribosomal protein S8

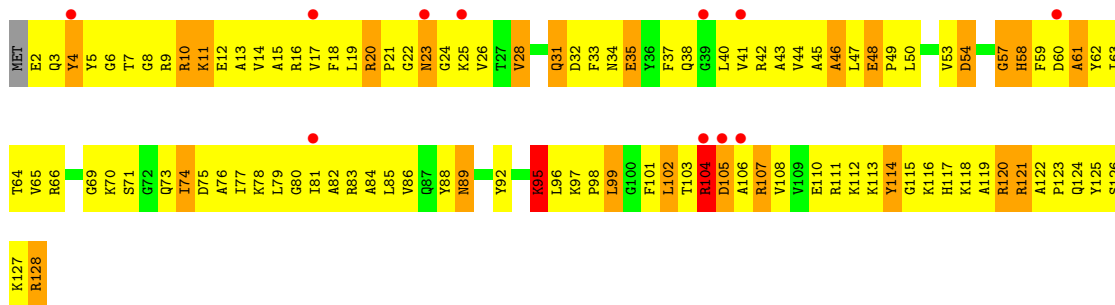


- Molecule 8: 30S ribosomal protein S8

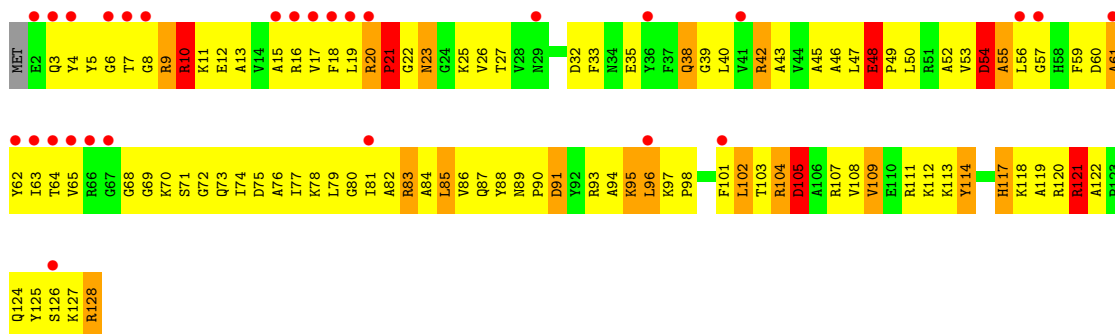


- Molecule 9: 30S ribosomal protein S9

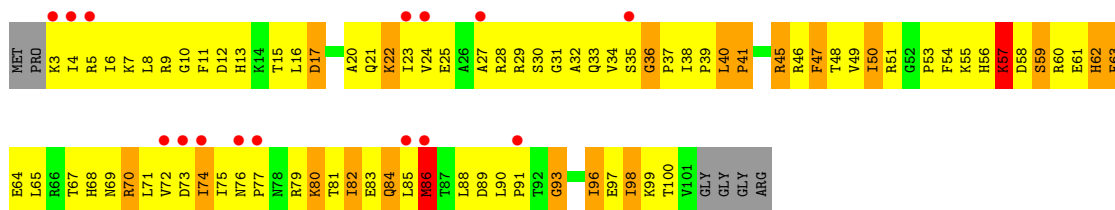
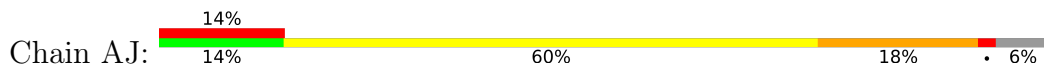




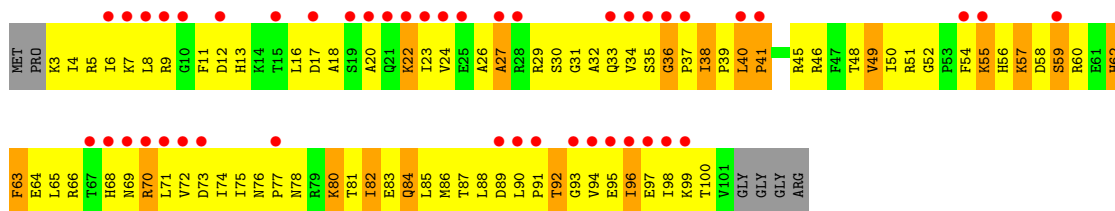
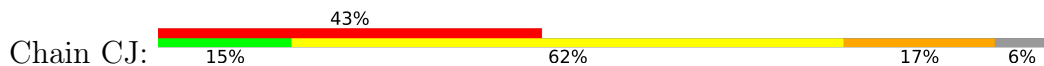
• Molecule 9: 30S ribosomal protein S9



• Molecule 10: 30S ribosomal protein S10



• Molecule 10: 30S ribosomal protein S10

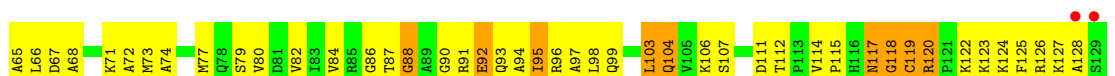


• Molecule 11: 30S ribosomal protein S11

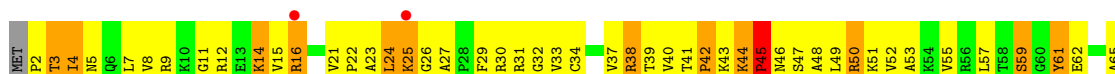




- Molecule 11: 30S ribosomal protein S11

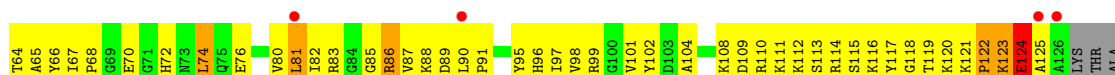
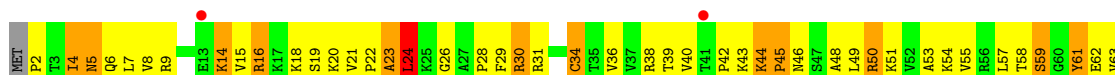


- Molecule 12: 30S ribosomal protein S12



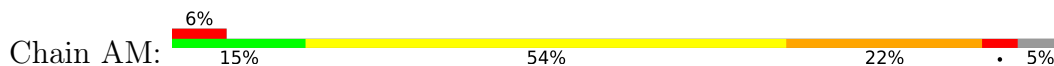
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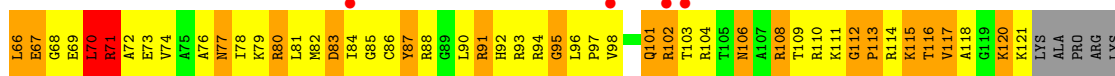
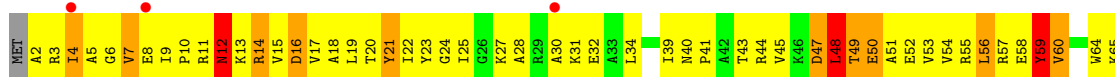
- Molecule 12: 30S ribosomal protein S12



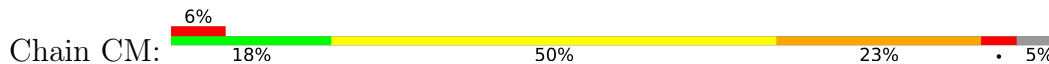
ALA
LYS
LYS

- Molecule 13: 30S ribosomal protein S13

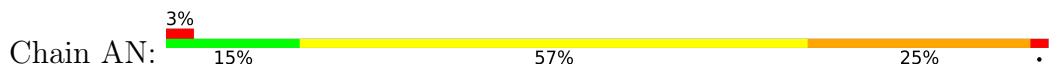




• Molecule 13: 30S ribosomal protein S13



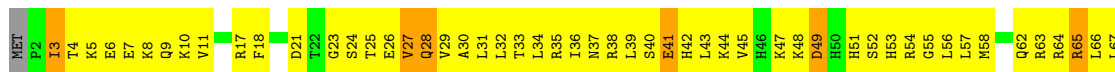
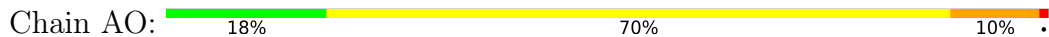
• Molecule 14: 30S ribosomal protein S14



• Molecule 14: 30S ribosomal protein S14

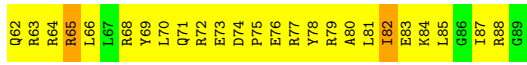


• Molecule 15: 30S ribosomal protein S15

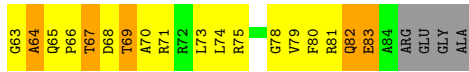
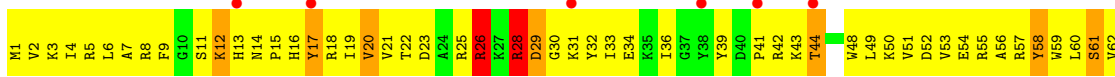


• Molecule 15: 30S ribosomal protein S15

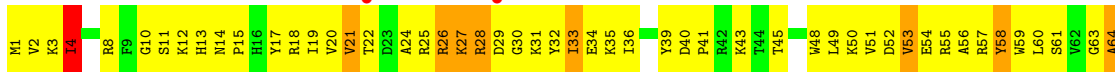




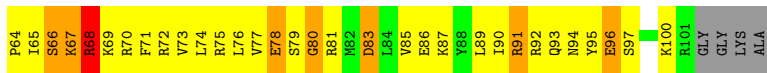
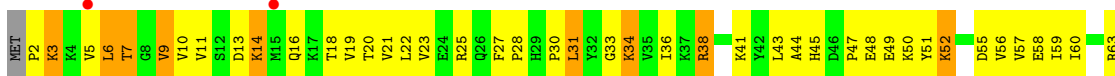
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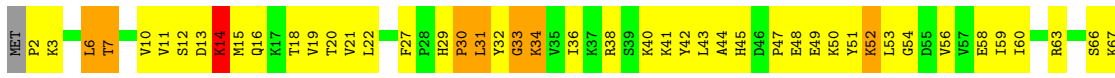
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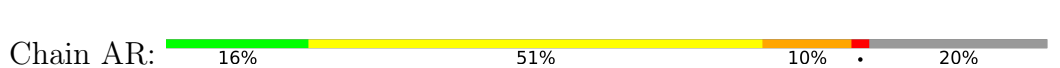
• Molecule 17: 30S ribosomal protein S17



• Molecule 17: 30S ribosomal protein S17

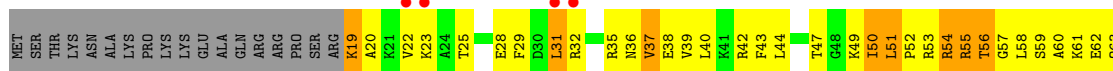
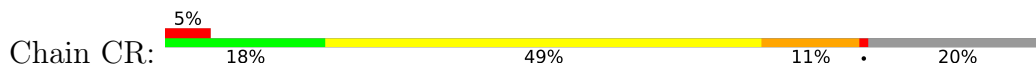


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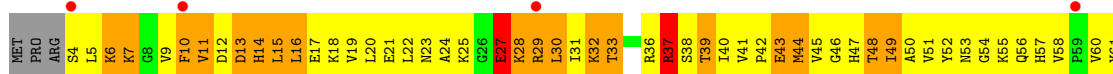
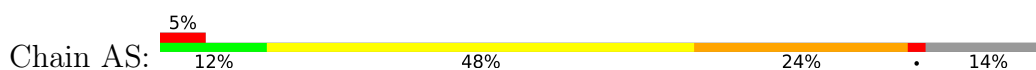




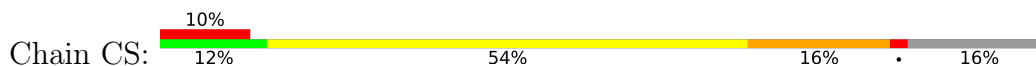
- Molecule 18: 30S ribosomal protein S18



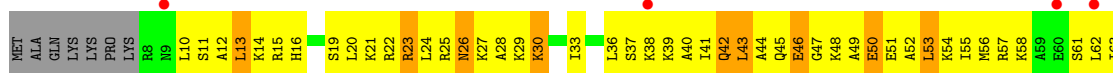
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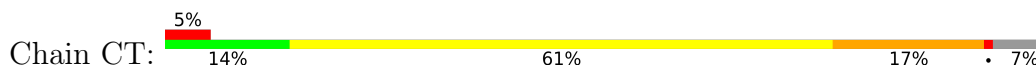
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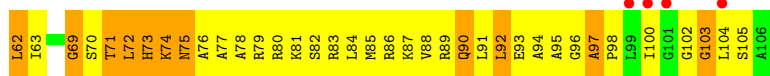
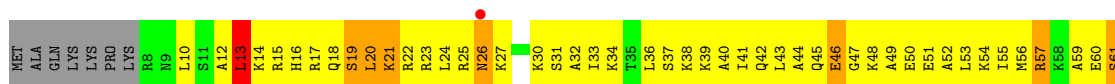


- Molecule 20: 30S ribosomal protein S20

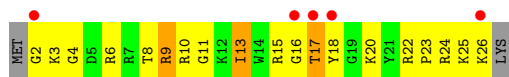


- Molecule 20: 30S ribosomal protein S20

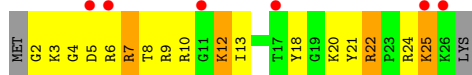




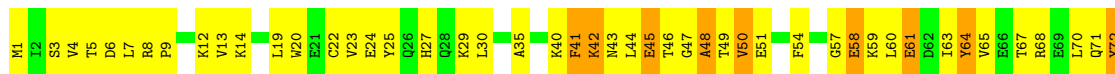
• Molecule 21: 30S ribosomal protein Thx



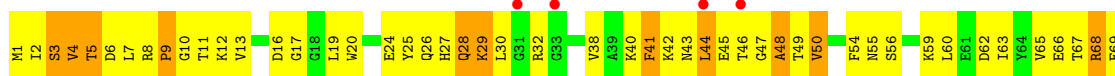
• Molecule 21: 30S ribosomal protein Thx



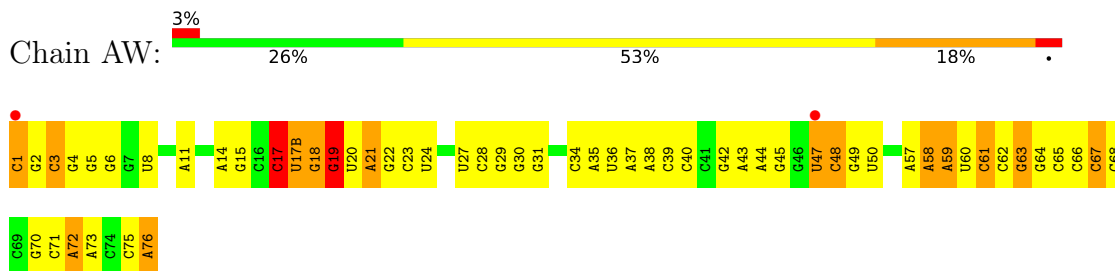
• Molecule 22: Elongation factor P



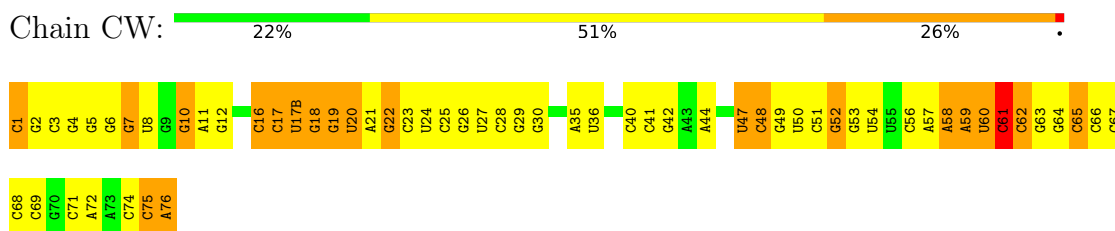
• Molecule 22: Elongation factor P



- Molecule 23: tRNA-Met



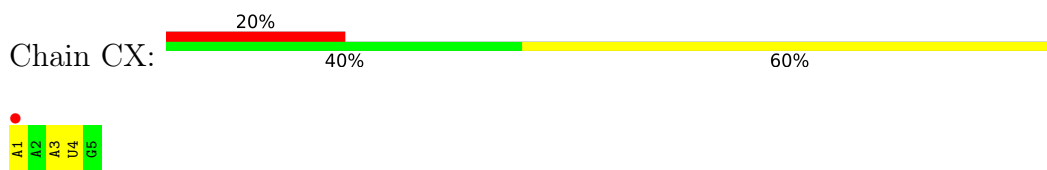
- Molecule 23: tRNA-Met



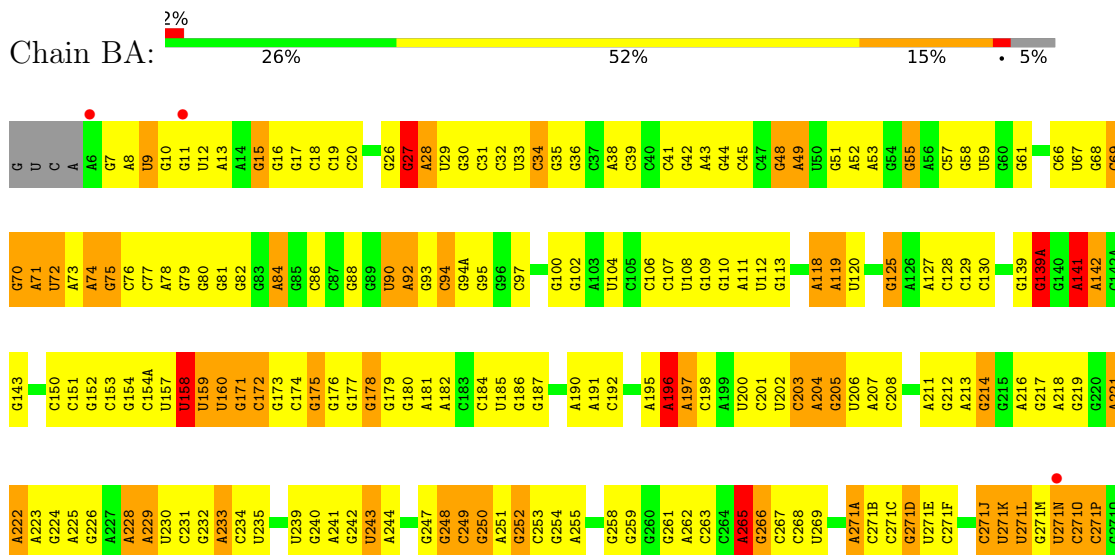
- Molecule 24: RNA (5'-R(P*AP*AP*AP*UP*G)-3')



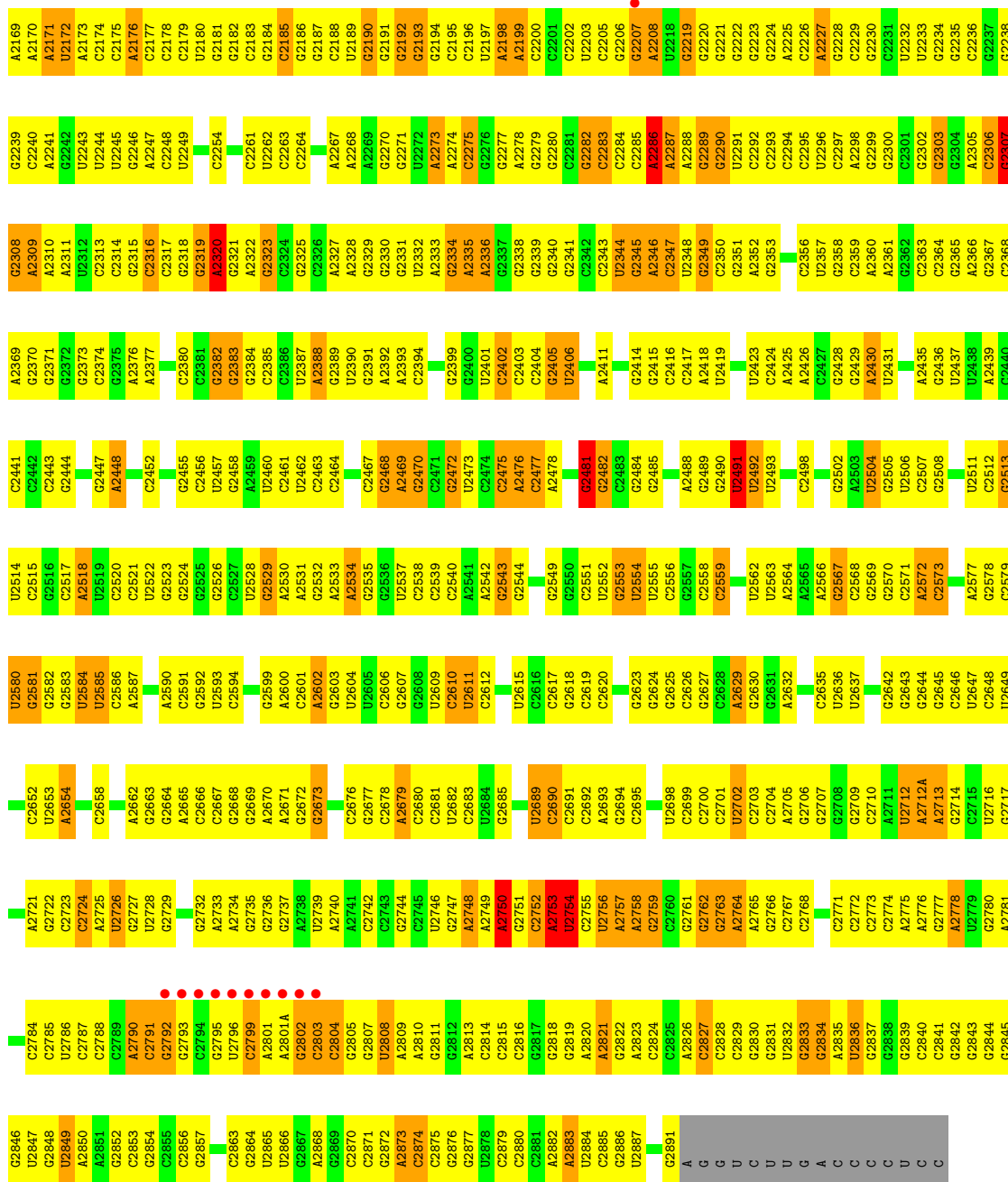
- Molecule 24: RNA (5'-R(P*AP*AP*AP*UP*G)-3')



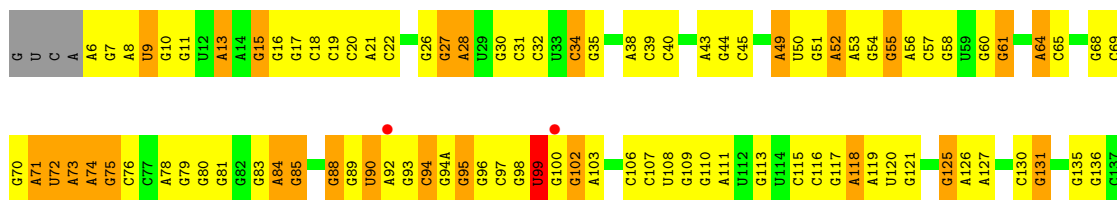
- Molecule 25: 23S ribosomal RNA

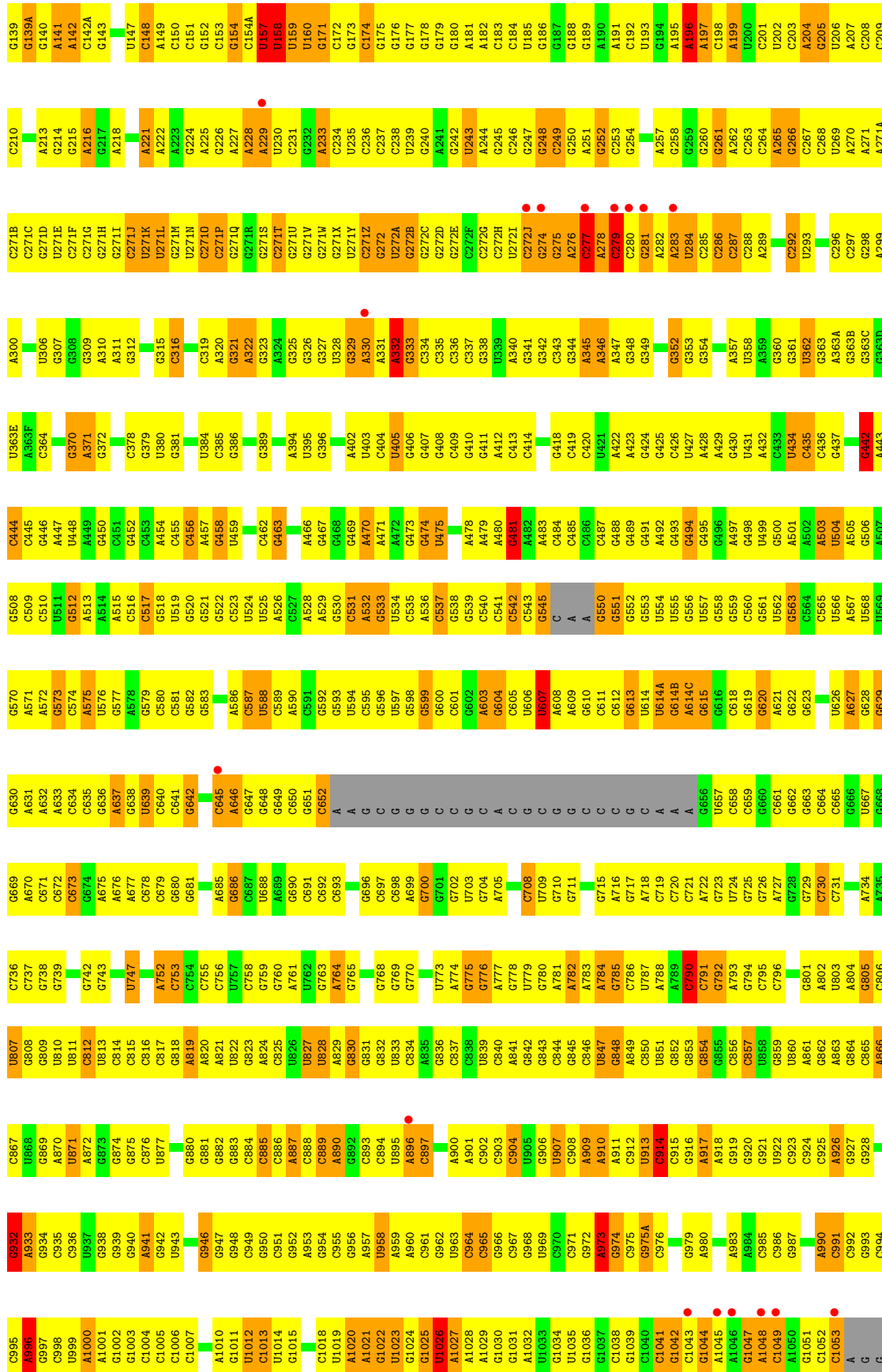


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• Molecule 25: 23S ribosomal RNA

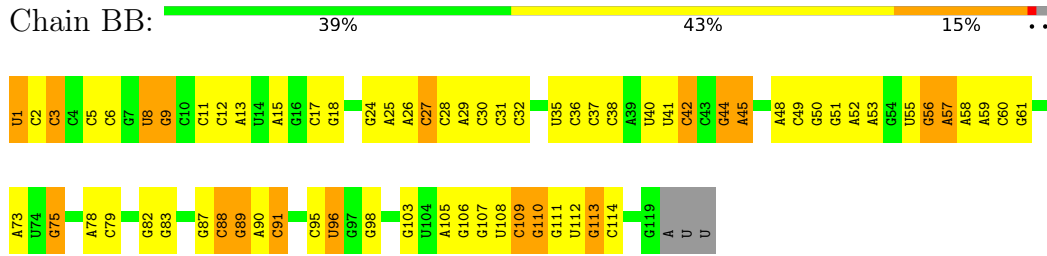




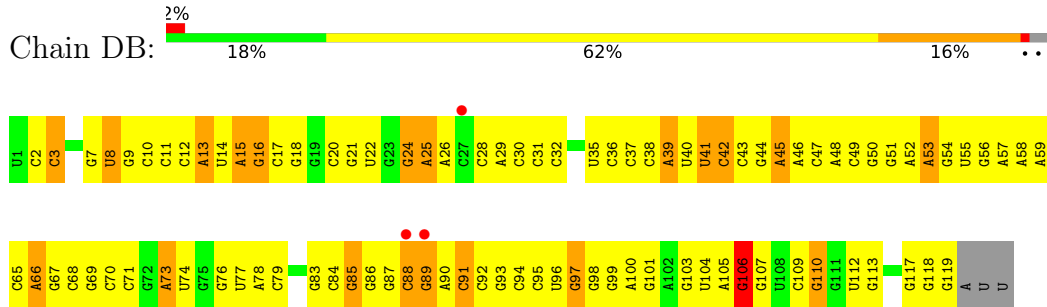
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C2008	G1937	G1855	A1786	G1699	G1491	G1491	G1430	G1358	U1293	A1226	C1166	C
G2009	A1938	U1856	U1787	A1700	U1629	G1492	U1431	A1359	U1294	G1227	U1167	A
G2010	U1939	G1857	C1788	A1701	G1630	C1493	C1432	A1360	C1295	G1228	G1168	C
U2011	U1940	U1858	A1789	G1702	G1631	A1494	U1433	G1361	G1296	G1229	G1169	U
G2012	G1941	G1859	U1790	G1703	A1632	A1495	A1434	C1362	C1297	C1230	G1170	C
A2013	U1942	G1862	C1790	G1704	A1561	A1496	G1435	C1363	C1298	G1231	G1171	U
A2014	G1945	G1863	A1791	G1705	A1562	U1497	U1436	G1364	U1299	G1232	G1173	U
A2015	C1946	U1864	G1792	A1637	C1498	G1498	C1437	A1365	U1300	G1233	A1174	U
A2019	U1948	G1865	C1793	C1638	U1503	U1503	U1438	G1368	A1301	U1234	G1175	U
A2020	G1949	A1876	U1795	U1640	A1566	A1439	G1440	G1369	A1302	U1235	A1176	U
	U1949	A1877	U1796	A1641	G1568	G1441	G1441	C1370	A1308	G1239	C1177	U
	G1949	U1712	C1797	G1642	A1569	C1506	G1442	U1372	G1309	U1240	C1178	U
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	C	C2209	U2291	C2420	C2557	U2491	C2691	A2753	G2816	C2881	U2942	U2943
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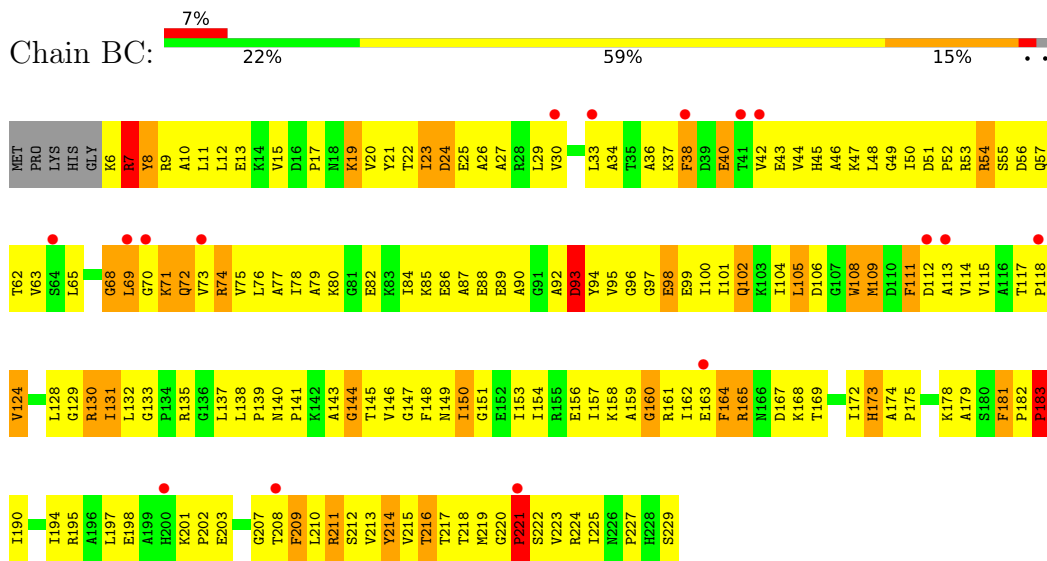
- Molecule 26: 5S ribosomal RNA



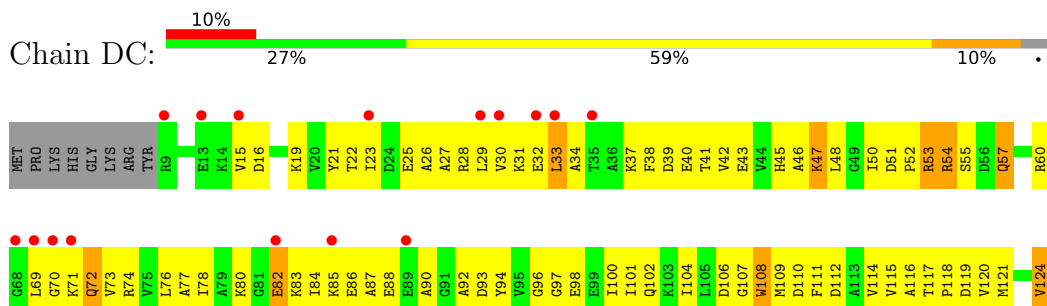
- Molecule 26: 5S ribosomal RNA

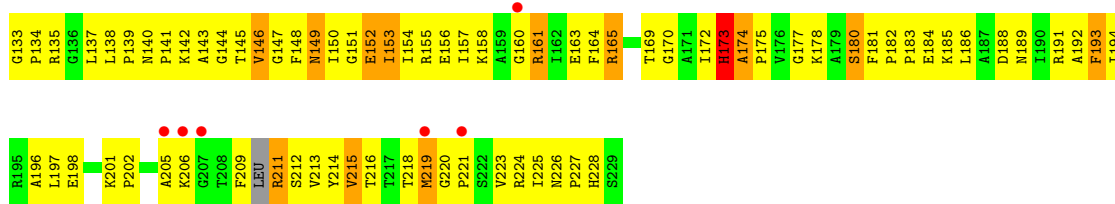


- Molecule 27: 50S ribosomal protein L1

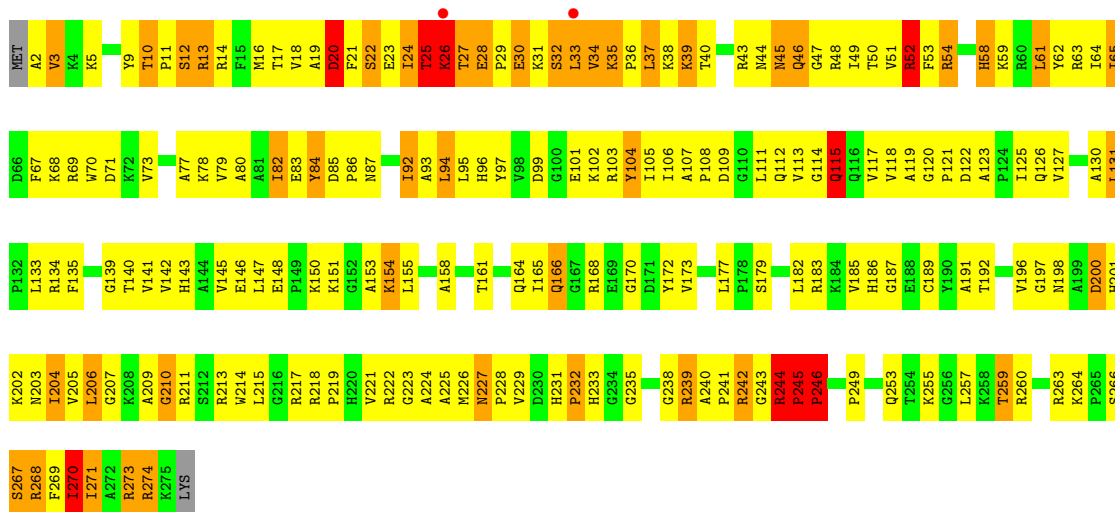


- Molecule 27: 50S ribosomal protein L1

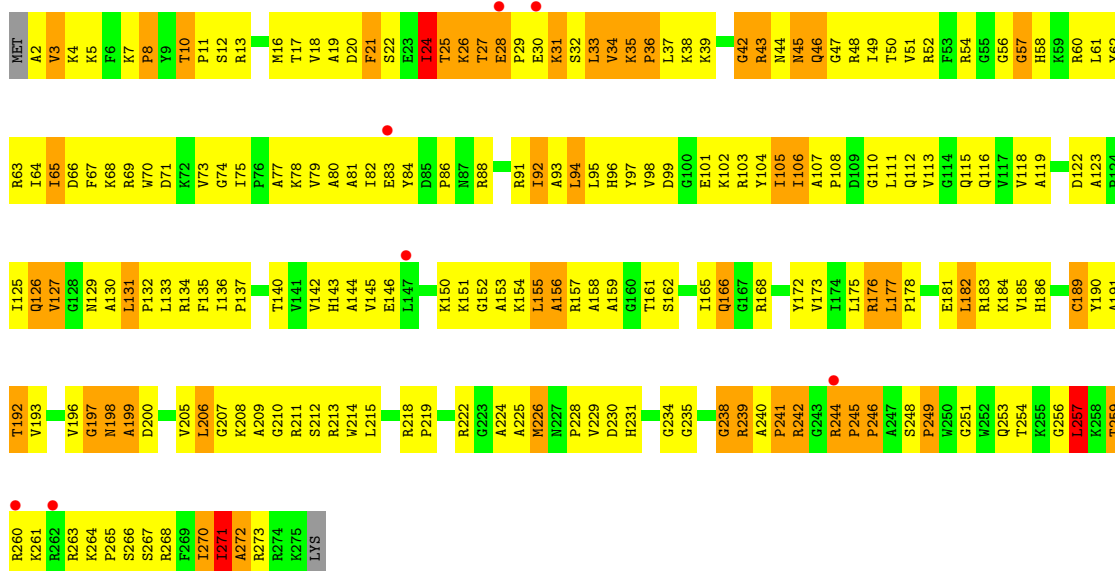




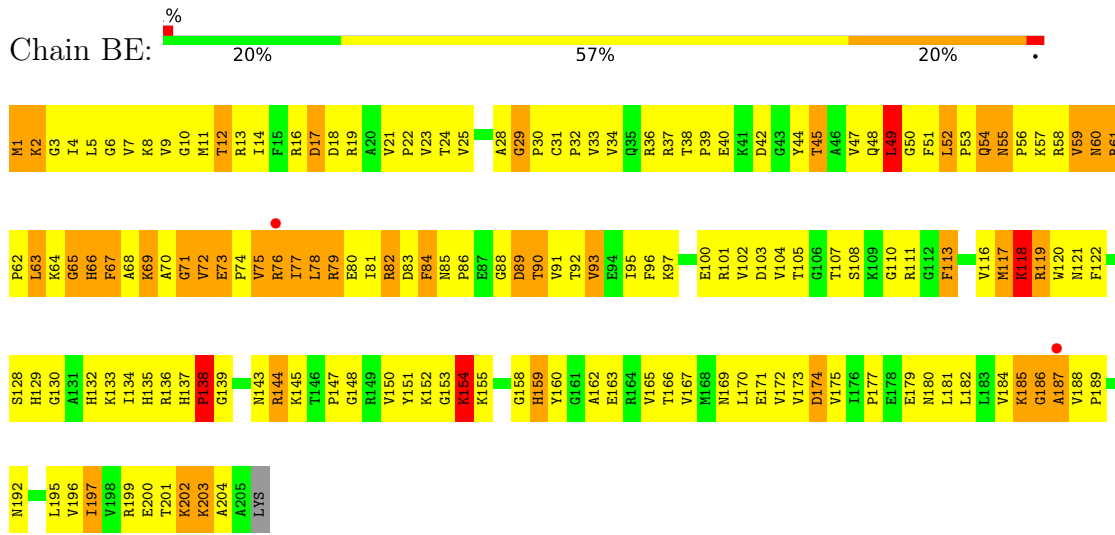
• Molecule 28: 50S ribosomal protein L2



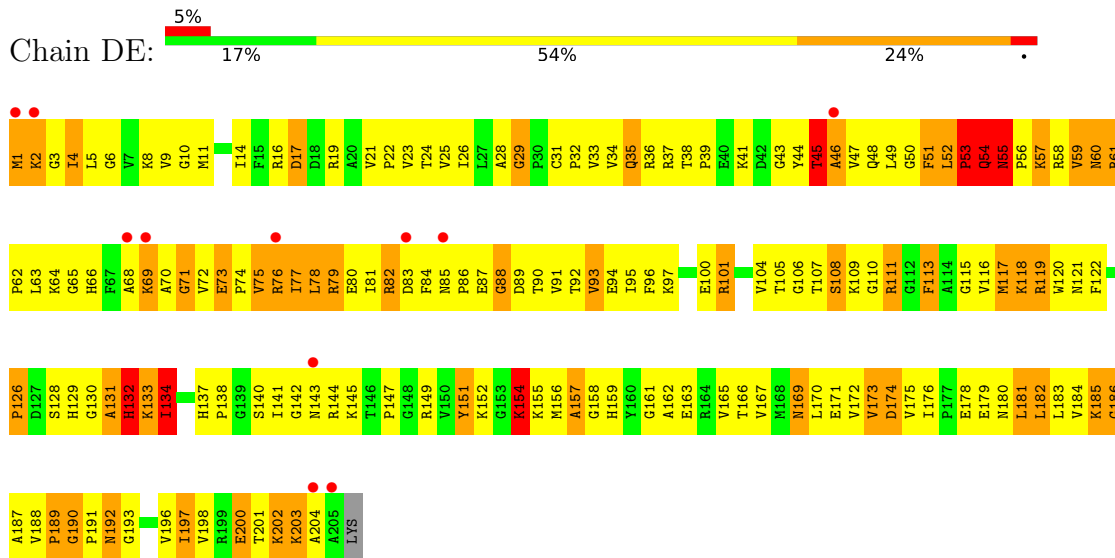
• Molecule 28: 50S ribosomal protein L2



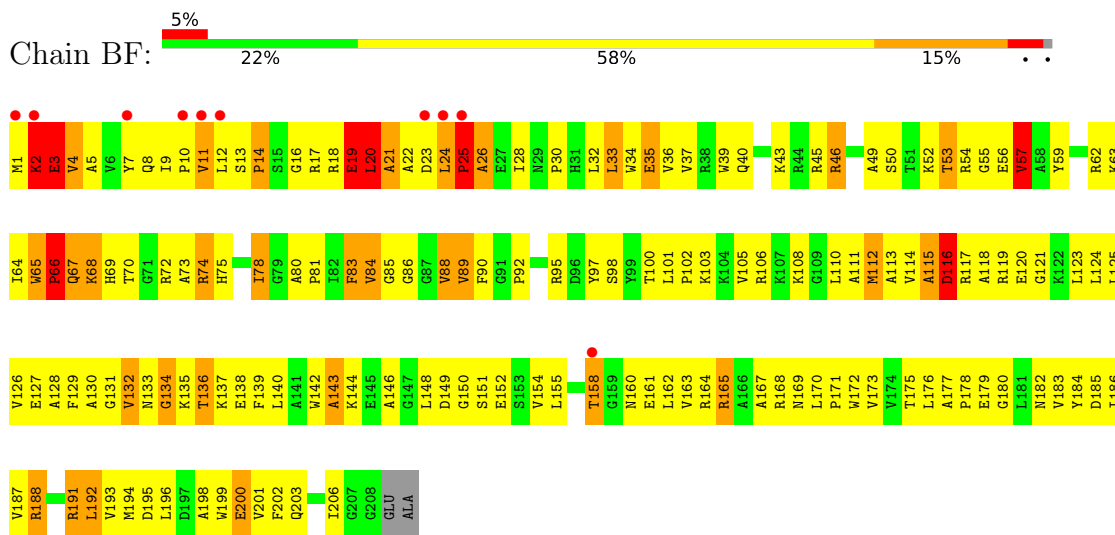
• Molecule 29: 50S ribosomal protein L3



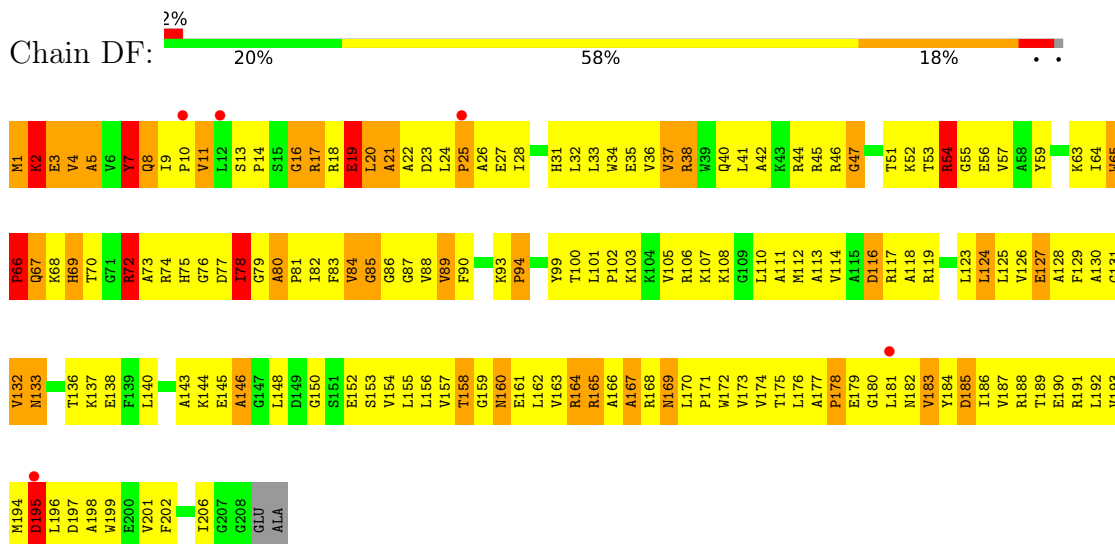
• Molecule 29: 50S ribosomal protein L3



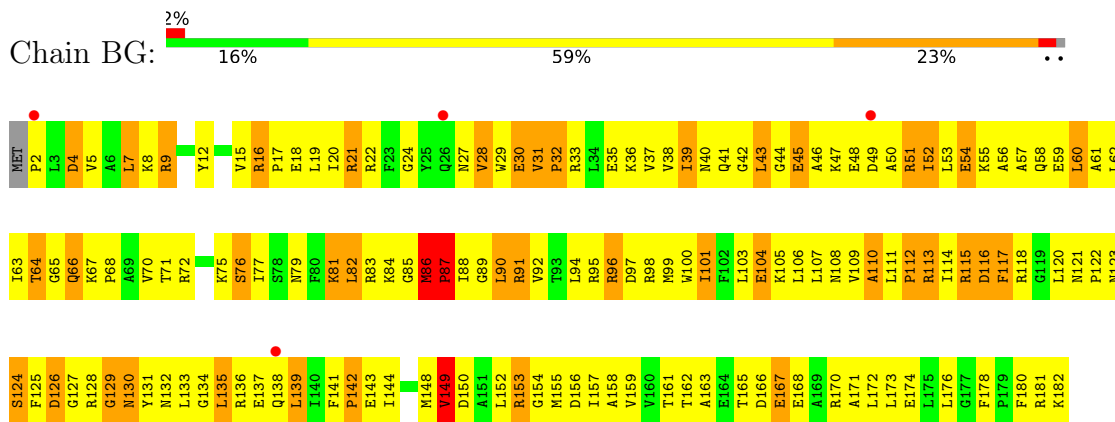
• Molecule 30: 50S ribosomal protein L4



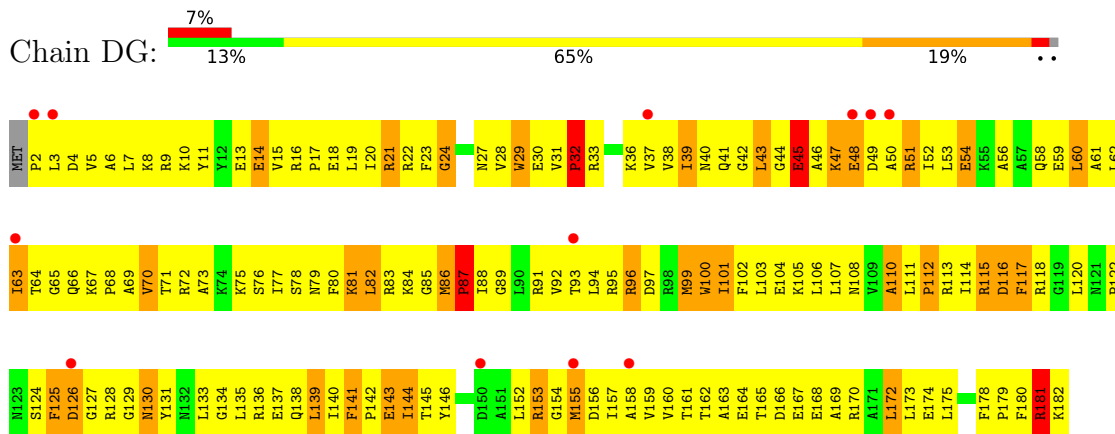
- Molecule 30: 50S ribosomal protein L4



- Molecule 31: 50S ribosomal protein L5

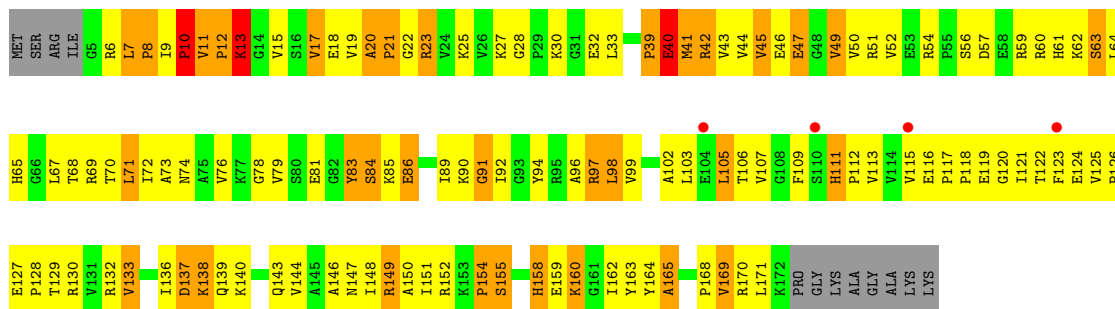


- Molecule 31: 50S ribosomal protein L5

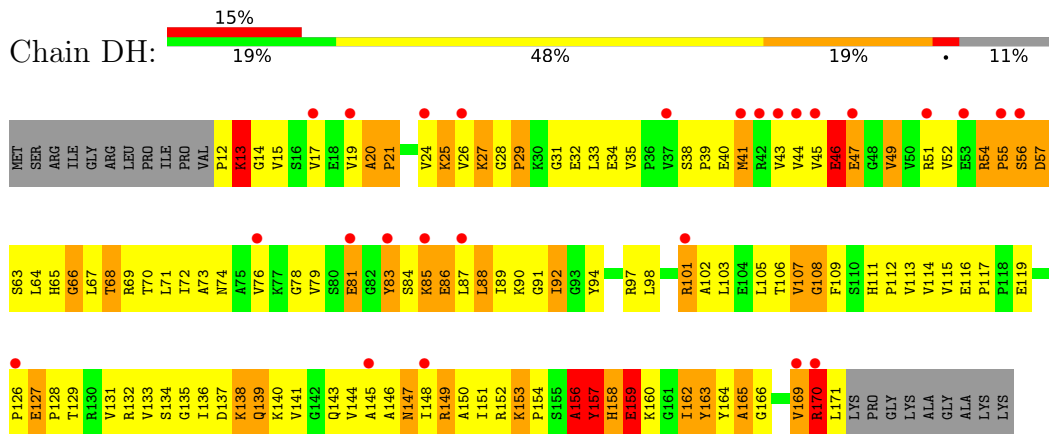


- Molecule 32: 50S ribosomal protein L6

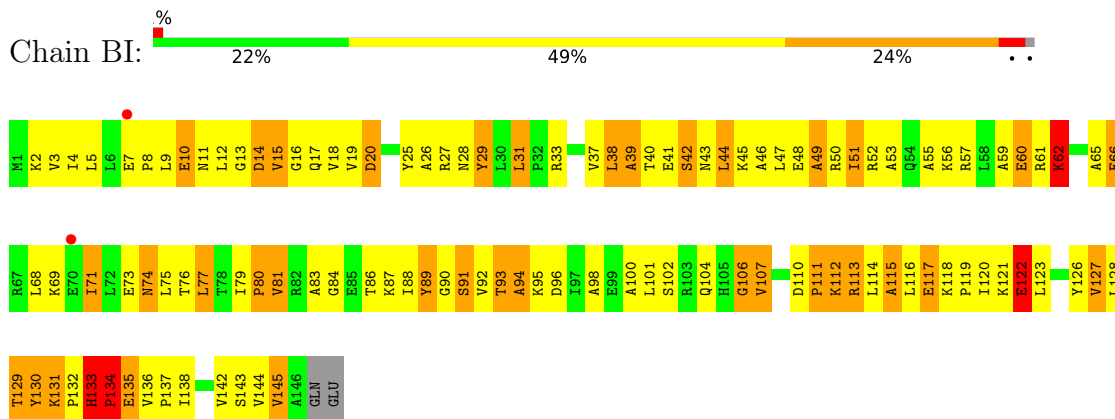




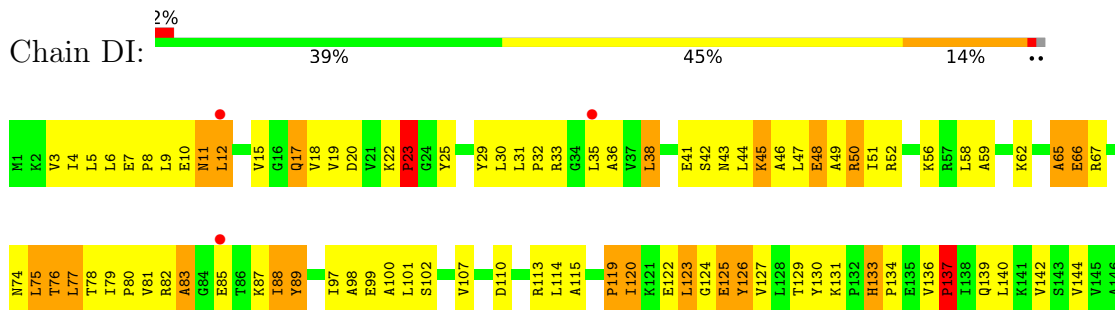
• Molecule 32: 50S ribosomal protein L6



• Molecule 33: 50S ribosomal protein L9

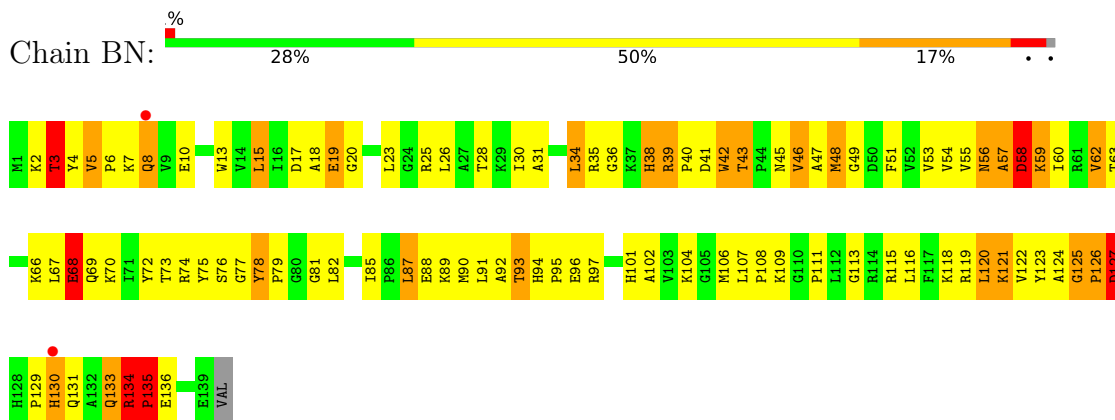


• Molecule 33: 50S ribosomal protein L9

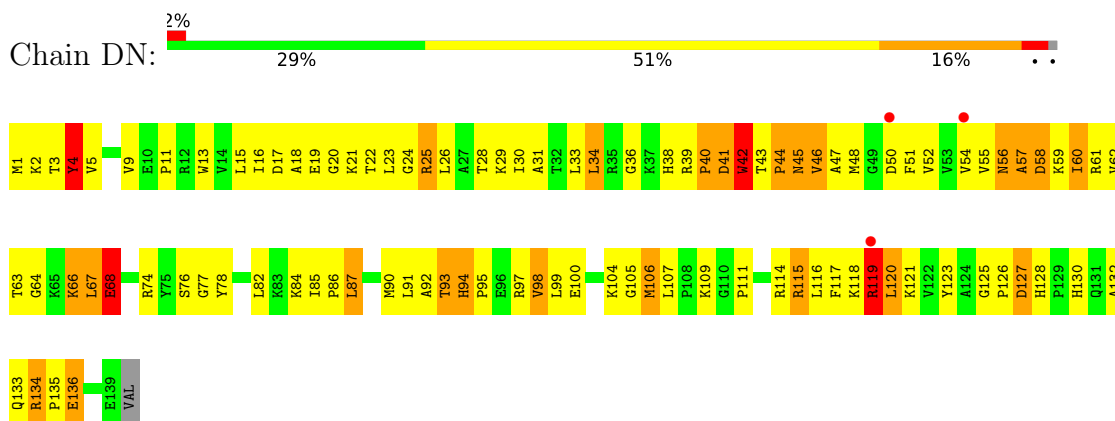


GLN
GLU

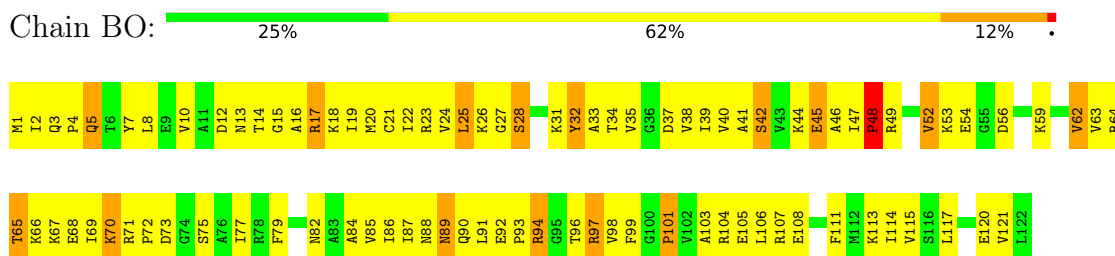
- Molecule 34: 50S ribosomal protein L13



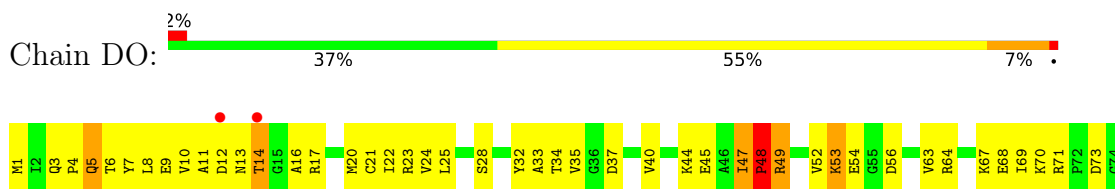
- Molecule 34: 50S ribosomal protein L13



- Molecule 35: 50S ribosomal protein L14

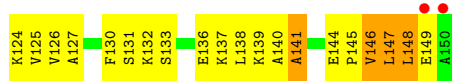
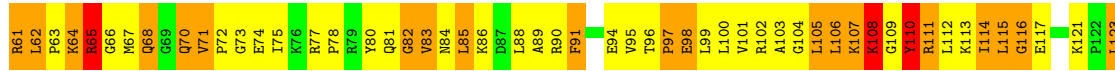
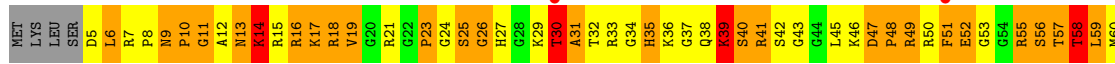
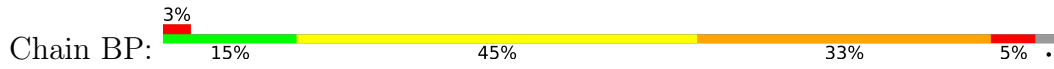


- Molecule 35: 50S ribosomal protein L14

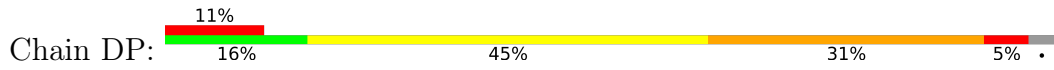




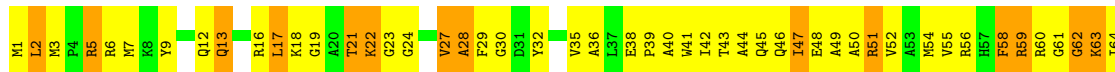
● Molecule 36: 50S ribosomal protein L15



● Molecule 36: 50S ribosomal protein L15

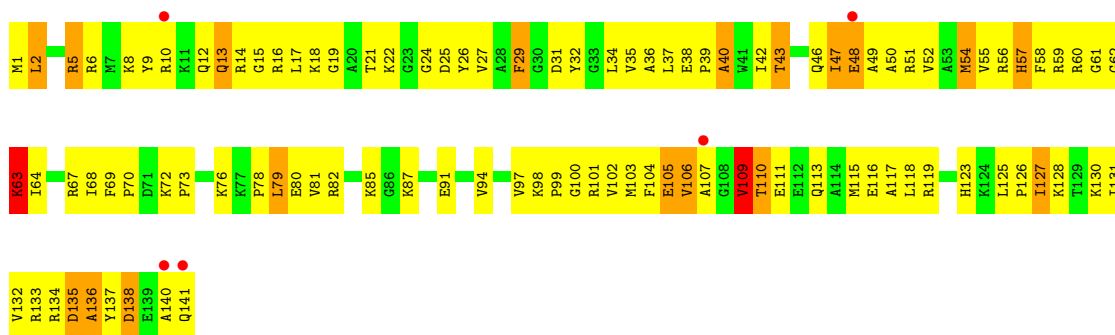


● Molecule 37: 50S ribosomal protein L16

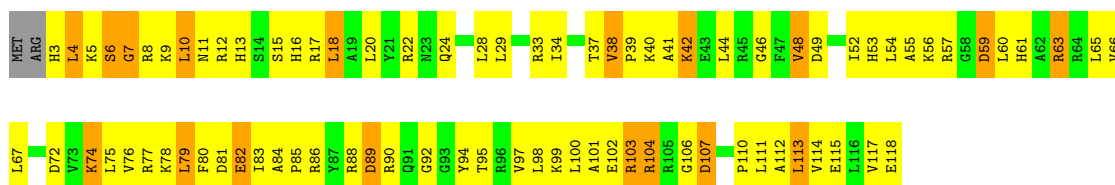
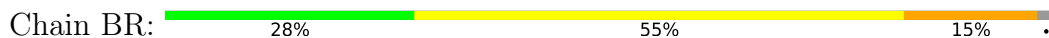


● Molecule 37: 50S ribosomal protein L16

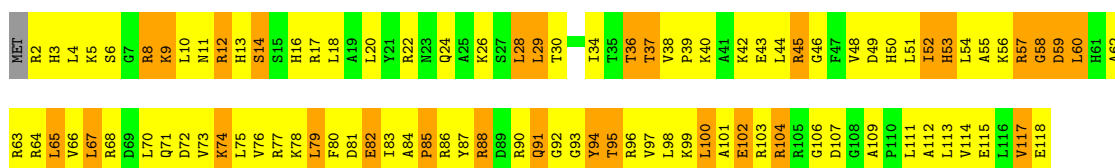
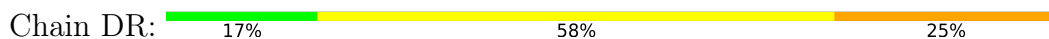




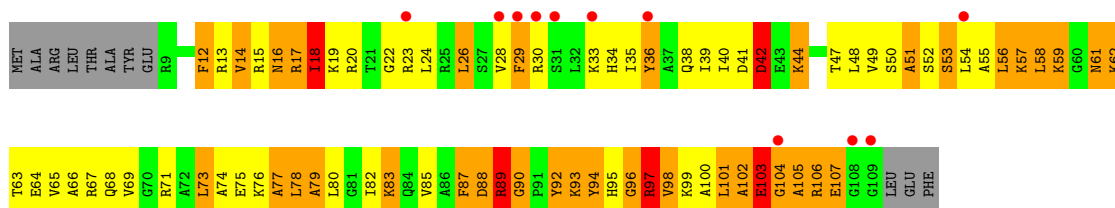
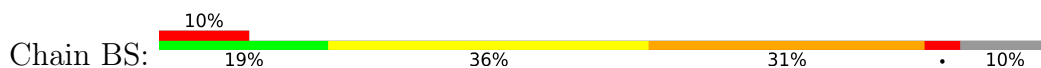
• Molecule 38: 50S ribosomal protein L17



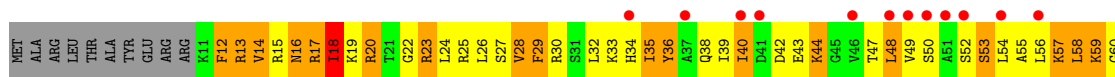
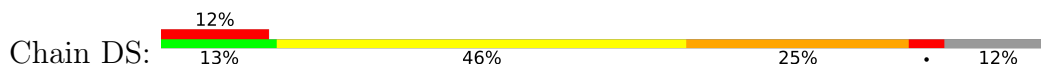
• Molecule 38: 50S ribosomal protein L17

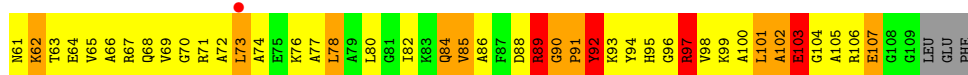


• Molecule 39: 50S ribosomal protein L18

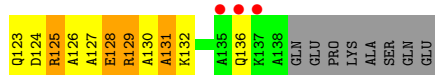
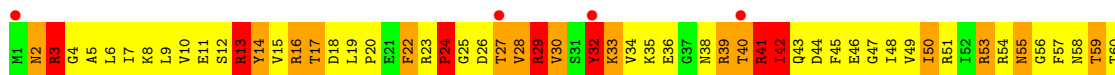
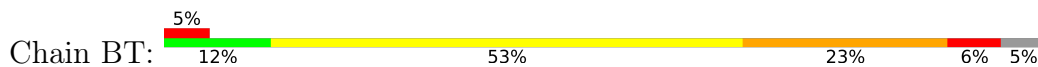


• Molecule 39: 50S ribosomal protein L18

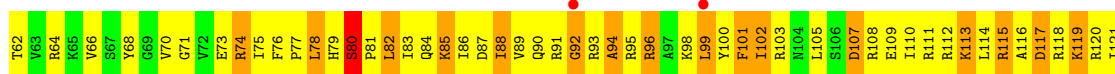
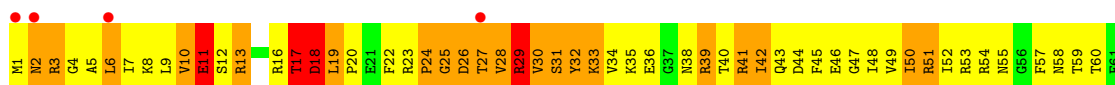
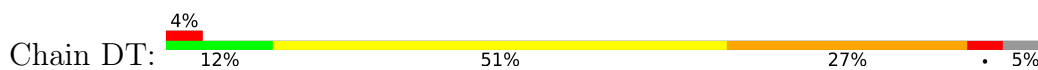




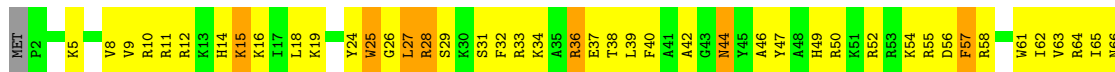
• Molecule 40: 50S ribosomal protein L19



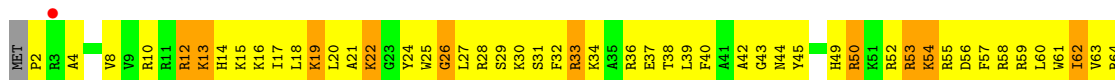
• Molecule 40: 50S ribosomal protein L19

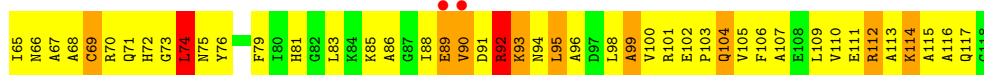


• Molecule 41: 50S ribosomal protein L20

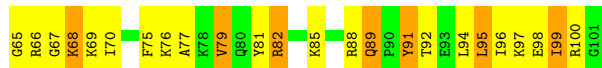
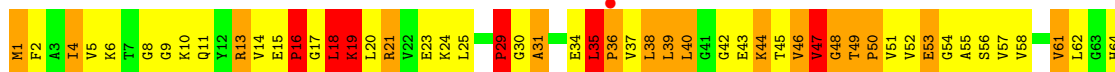


• Molecule 41: 50S ribosomal protein L20

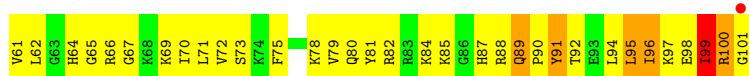
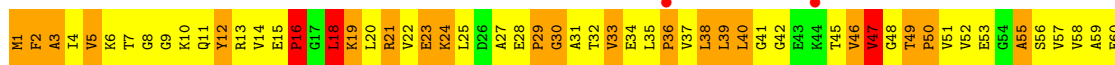
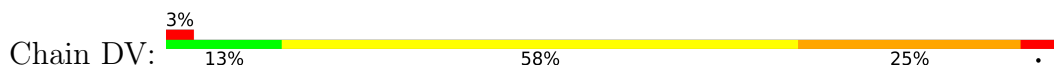




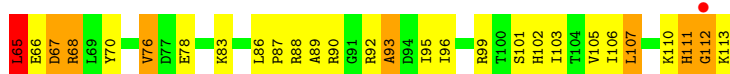
• Molecule 42: 50S ribosomal protein L21



• Molecule 42: 50S ribosomal protein L21



• Molecule 43: 50S ribosomal protein L22

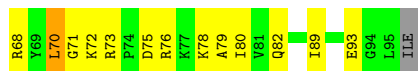


• Molecule 43: 50S ribosomal protein L22

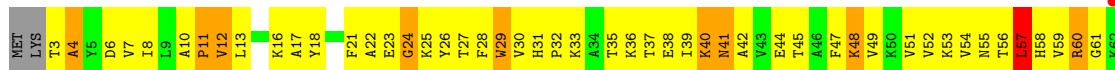


• Molecule 44: 50S ribosomal protein L23

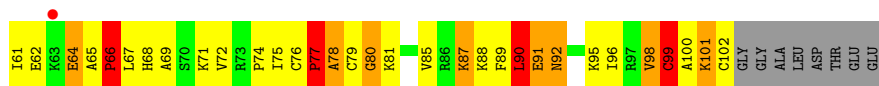




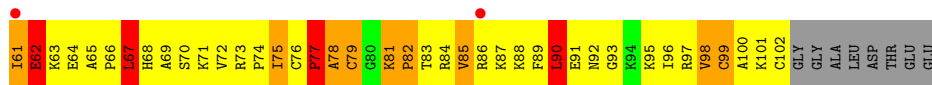
• Molecule 44: 50S ribosomal protein L23



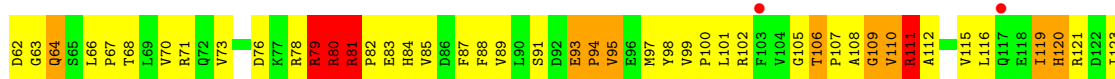
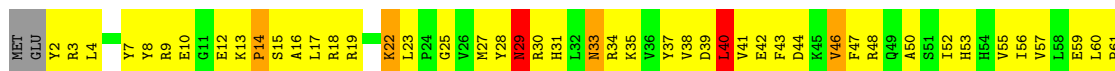
• Molecule 45: 50S ribosomal protein L24

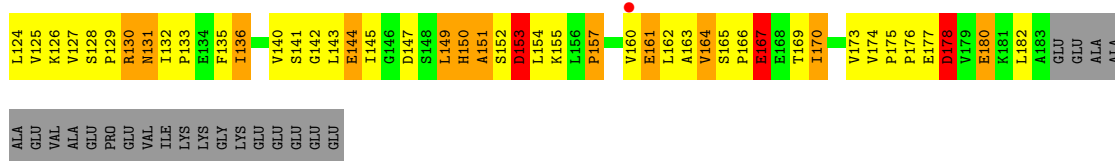


• Molecule 45: 50S ribosomal protein L24

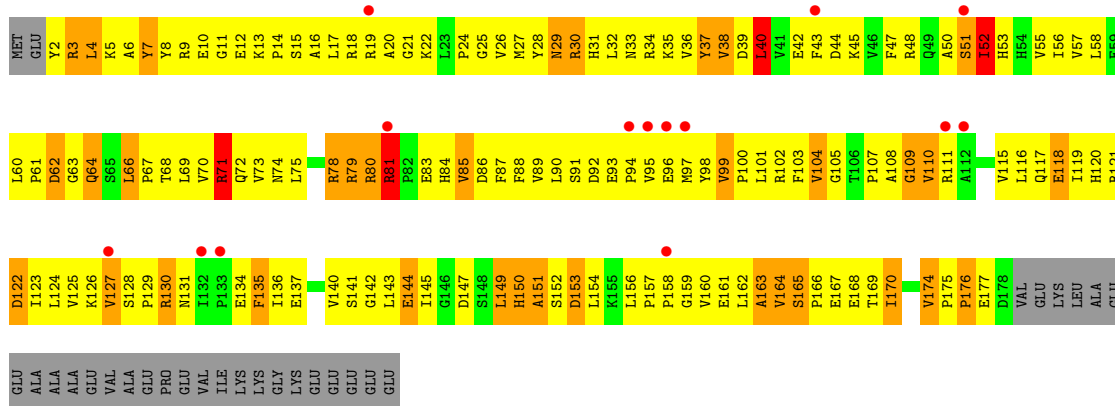
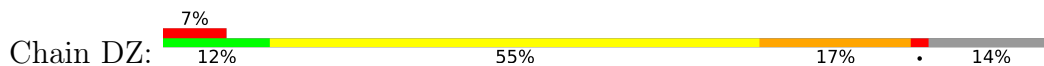


• Molecule 46: 50S ribosomal protein L25

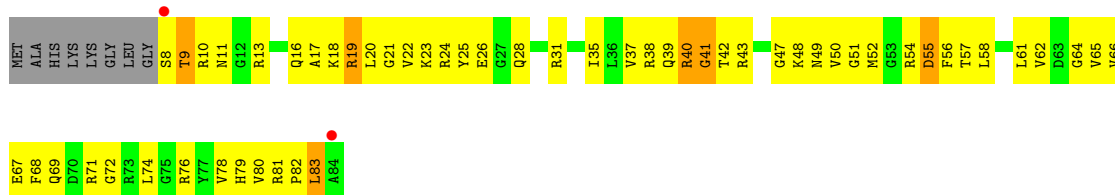
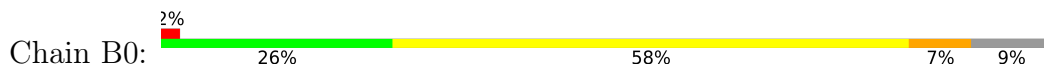




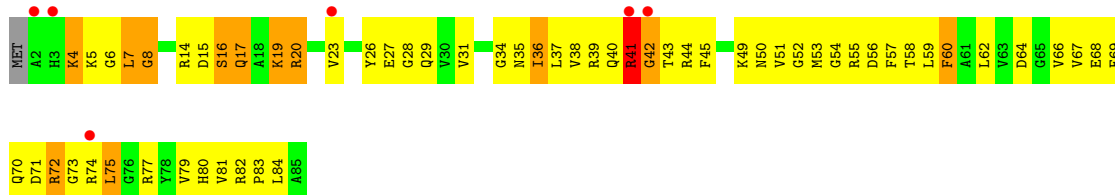
• Molecule 46: 50S ribosomal protein L25



• Molecule 47: 50S ribosomal protein L27

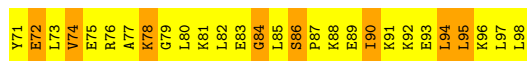


• Molecule 47: 50S ribosomal protein L27

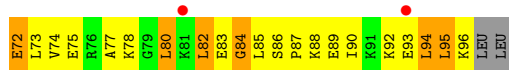


• Molecule 48: 50S ribosomal protein L28

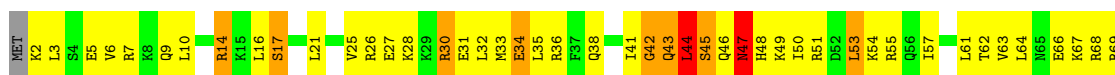




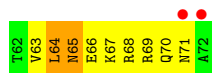
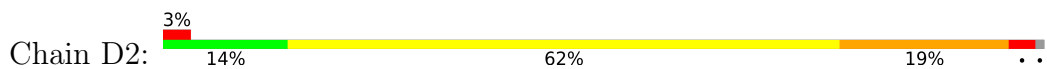
- Molecule 48: 50S ribosomal protein L28



- Molecule 49: 50S ribosomal protein L29



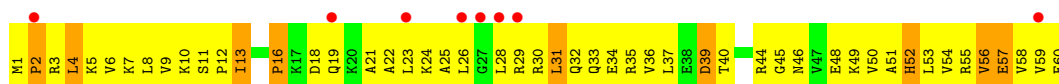
- Molecule 49: 50S ribosomal protein L29



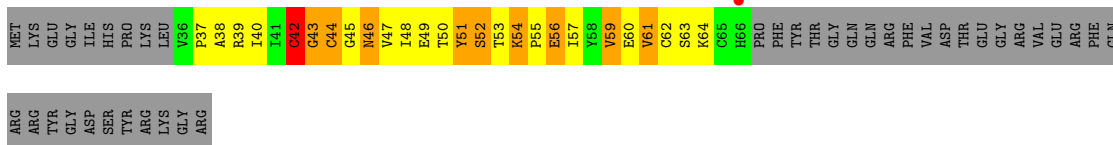
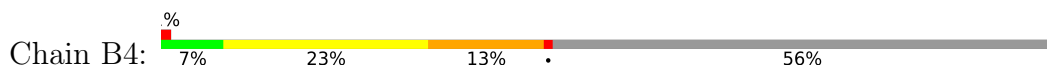
- Molecule 50: 50S ribosomal protein L30



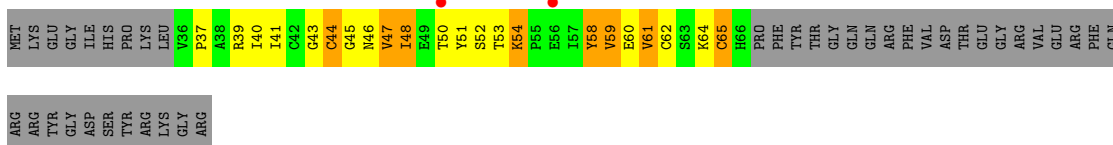
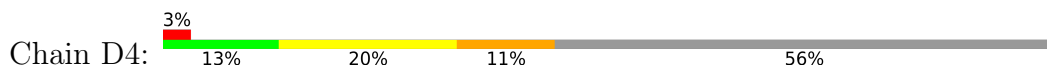
- Molecule 50: 50S ribosomal protein L30



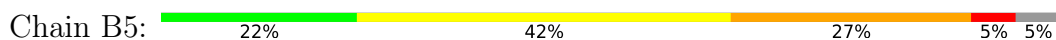
- Molecule 51: 50S ribosomal protein L31



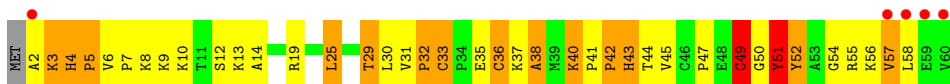
- Molecule 51: 50S ribosomal protein L31



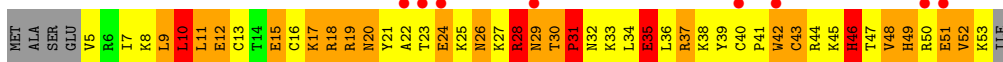
- Molecule 52: 50S ribosomal protein L32



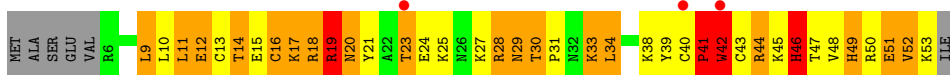
- Molecule 52: 50S ribosomal protein L32



- Molecule 53: 50S ribosomal protein L33



- Molecule 53: 50S ribosomal protein L33

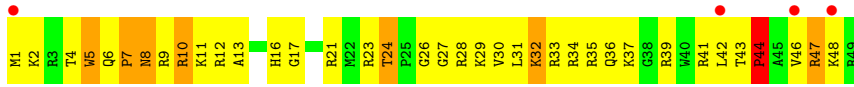


- Molecule 54: 50S ribosomal protein L34

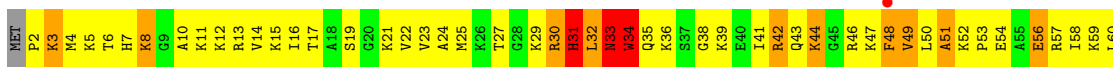
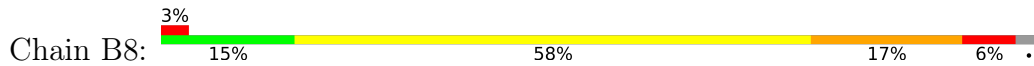




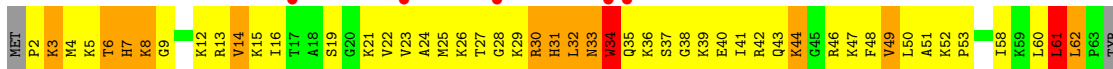
- Molecule 54: 50S ribosomal protein L34



- Molecule 55: 50S ribosomal protein L35



- Molecule 55: 50S ribosomal protein L35



- Molecule 56: 50S ribosomal protein L36



- Molecule 56: 50S ribosomal protein L36



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.53Å 447.03Å 622.75Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	(Not available) – 3.10 49.65 – 3.10	Depositor EDS
% Data completeness (in resolution range)	(Not available) ((Not available)-3.10) 94.7 (49.65-3.10)	Depositor EDS
R_{merge}	0.26	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.10 (at 3.12Å)	Xtrriage
Refinement program	CNS	Depositor
R, R_{free}	0.252 , 0.302 0.254 , 0.251	Depositor DCC
R_{free} test set	49631 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	72.6	Xtrriage
Anisotropy	0.174	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 56.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	290405	wwPDB-VP
Average B, all atoms (Å ²)	65.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.57% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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

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	0.82	6/35982 (0.0%)	0.78	24/56156 (0.0%)
1	CA	0.47	0/36193	0.72	9/56490 (0.0%)
2	AB	0.41	0/1936	0.69	0/2611
2	CB	0.43	0/1936	0.73	1/2611 (0.0%)
3	AC	0.41	0/1637	0.66	0/2207
3	CC	0.40	0/1637	0.66	0/2207
4	AD	0.41	0/1733	0.69	0/2318
4	CD	0.42	0/1733	0.72	1/2318 (0.0%)
5	AE	0.42	0/1163	0.68	0/1566
5	CE	0.40	0/1163	0.69	0/1566
6	AF	0.44	0/856	0.71	0/1154
6	CF	0.40	0/856	0.70	0/1154
7	AG	0.42	0/1276	0.67	0/1709
7	CG	0.42	0/1276	0.67	0/1709
8	AH	0.41	0/1136	0.72	0/1527
8	CH	0.39	0/1136	0.67	0/1527
9	AI	0.46	0/1022	0.69	0/1369
9	CI	0.43	0/1022	0.70	0/1369
10	AJ	0.43	0/808	0.71	0/1087
10	CJ	0.45	0/808	0.72	0/1087
11	AK	0.41	0/900	0.72	1/1213 (0.1%)
11	CK	0.39	0/900	0.67	0/1213
12	AL	0.41	0/987	0.78	0/1322
12	CL	0.41	0/987	0.77	1/1322 (0.1%)
13	AM	0.41	0/957	0.78	1/1283 (0.1%)
13	CM	0.39	0/957	0.76	1/1283 (0.1%)
14	AN	0.43	0/501	0.69	0/664
14	CN	0.45	0/501	0.66	0/664
15	AO	0.42	0/745	0.66	0/992
15	CO	0.39	0/745	0.67	1/992 (0.1%)
16	AP	0.42	0/717	0.71	1/965 (0.1%)
16	CP	0.42	0/717	0.73	1/965 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.44	0/837	0.67	0/1119
17	CQ	0.40	0/837	0.70	0/1119
18	AR	0.40	0/579	0.73	0/768
18	CR	0.45	0/579	0.75	0/768
19	AS	0.42	0/625	0.74	0/844
19	CS	0.45	0/632	0.76	0/853
20	AT	0.37	0/765	0.74	0/1007
20	CT	0.38	0/765	0.73	0/1007
21	AU	0.52	0/213	0.58	0/279
21	CU	0.48	0/213	0.61	0/279
22	AV	0.47	0/1393	0.68	0/1883
22	CV	0.46	0/1393	0.67	0/1883
23	AW	0.61	3/1836 (0.2%)	0.90	6/2859 (0.2%)
23	CW	0.50	1/1836 (0.1%)	0.72	1/2859 (0.0%)
24	AX	0.99	1/123 (0.8%)	0.68	0/188
24	CX	0.89	1/123 (0.8%)	0.67	0/188
25	BA	0.68	8/66745 (0.0%)	0.78	54/104189 (0.1%)
25	DA	0.56	10/66983 (0.0%)	0.76	54/104560 (0.1%)
26	BB	0.50	0/2853	0.79	3/4451 (0.1%)
26	DB	0.47	0/2853	0.72	2/4451 (0.0%)
27	BC	0.41	0/1732	0.69	0/2335
27	DC	0.87	1/1668 (0.1%)	0.65	0/2251
28	BD	0.56	0/2177	0.88	4/2935 (0.1%)
28	DD	0.48	0/2165	0.83	0/2921
29	BE	0.52	0/1597	0.84	2/2155 (0.1%)
29	DE	0.49	0/1597	0.84	1/2155 (0.0%)
30	BF	0.54	0/1659	0.82	1/2246 (0.0%)
30	DF	0.44	0/1659	0.74	0/2246
31	BG	0.45	0/1499	0.75	1/2016 (0.0%)
31	DG	0.43	0/1499	0.77	2/2016 (0.1%)
32	BH	0.55	0/1254	0.83	0/1703
32	DH	0.43	0/1246	0.75	2/1684 (0.1%)
33	BI	0.41	0/1056	0.75	0/1443
33	DI	0.37	0/881	0.73	0/1219
34	BN	0.52	0/1132	0.82	2/1527 (0.1%)
34	DN	0.41	0/1132	0.75	0/1527
35	BO	0.52	0/943	0.79	0/1269
35	DO	0.47	0/943	0.72	0/1269
36	BP	0.54	0/1131	1.08	7/1504 (0.5%)
36	DP	0.45	0/1095	0.90	4/1460 (0.3%)
37	BQ	0.46	0/1120	0.70	0/1498
37	DQ	0.45	0/1143	0.71	0/1527
38	BR	0.49	0/936	0.80	1/1256 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DR	0.42	0/974	0.78	0/1302
39	BS	0.47	0/785	0.85	2/1048 (0.2%)
39	DS	0.47	0/779	0.83	1/1038 (0.1%)
40	BT	0.49	0/1156	0.87	3/1544 (0.2%)
40	DT	0.46	0/1156	0.85	1/1544 (0.1%)
41	BU	0.53	0/975	0.79	0/1297
41	DU	0.42	0/975	0.71	0/1297
42	BV	0.54	0/790	0.88	0/1057
42	DV	0.42	0/790	0.77	0/1057
43	BW	0.52	0/907	0.77	0/1216
43	DW	0.42	0/907	0.71	0/1216
44	BX	0.56	0/749	0.81	1/1006 (0.1%)
44	DX	0.47	0/740	0.72	0/995
45	BY	0.58	0/770	0.93	1/1031 (0.1%)
45	DY	0.49	0/789	0.88	1/1053 (0.1%)
46	BZ	0.44	0/1470	0.72	1/1998 (0.1%)
46	DZ	0.42	0/1436	0.70	0/1951
47	B0	0.54	0/621	0.76	0/827
47	D0	0.45	0/671	0.68	0/892
48	B1	0.51	0/764	0.78	0/1014
48	D1	0.41	0/739	0.72	0/983
49	B2	0.45	0/600	0.69	0/793
49	D2	0.42	0/600	0.69	0/793
50	B3	0.47	0/465	0.73	0/625
50	D3	0.36	0/473	0.70	0/636
51	B4	0.57	0/229	0.83	0/311
51	D4	0.46	0/229	0.73	0/311
52	B5	0.58	0/449	0.86	0/608
52	D5	0.51	0/473	0.73	0/639
53	B6	0.68	1/408 (0.2%)	0.95	2/548 (0.4%)
53	D6	0.47	0/328	0.96	1/450 (0.2%)
54	B7	0.59	0/427	0.83	1/563 (0.2%)
54	D7	0.47	0/427	0.74	0/563
55	B8	0.55	0/503	0.94	3/663 (0.5%)
55	D8	0.49	0/473	0.82	0/626
56	B9	0.49	0/297	0.74	0/391
56	D9	0.43	0/302	0.70	0/397
All	All	0.59	32/313996 (0.0%)	0.76	207/468619 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	0	38
1	CA	0	17
23	AW	0	2
23	CW	0	2
25	BA	3	106
25	DA	1	76
26	BB	0	2
26	DB	0	1
28	BD	0	1
52	B5	0	1
52	D5	0	1
All	All	4	247

The worst 5 of 32 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	AA	1223	C	C4'-C3'	85.69	2.47	1.53
1	AA	1223	C	C3'-C2'	69.16	2.29	1.52
1	AA	1223	C	C3'-O3'	-41.26	0.84	1.42
27	DC	180	SER	CB-OG	31.26	1.82	1.42
1	AA	1223	C	N3-C4	27.30	1.53	1.33

The worst 5 of 207 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AA	1223	C	C4'-C3'-C2'	-42.89	59.71	102.60
1	AA	1223	C	C3'-C2'-C1'	32.11	127.19	101.50
1	AA	1223	C	P-O3'-C3'	-30.31	83.33	119.70
1	AA	1223	C	O4'-C4'-C3'	20.77	124.77	104.00
1	AA	1223	C	N3-C4-C5	-18.18	114.63	121.90

All (4) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
25	BA	454	A	C3'
25	BA	775	G	C3'
25	BA	1992	G	C3'
25	DA	1992	G	C3'

5 of 247 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	114	U	Sidechain

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Mol	Chain	Res	Type	Group
1	AA	127	G	Sidechain
1	AA	250	A	Sidechain
1	AA	253	U	Sidechain
1	AA	47	C	Sidechain

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	32144	0	16225	1841	0
1	CA	32332	0	16317	1680	0
2	AB	1901	0	1951	360	0
2	CB	1901	0	1951	361	0
3	AC	1613	0	1677	329	0
3	CC	1613	0	1677	275	0
4	AD	1703	0	1763	325	0
4	CD	1703	0	1763	212	0
5	AE	1147	0	1207	168	0
5	CE	1147	0	1207	177	0
6	AF	843	0	857	111	0
6	CF	843	0	857	137	0
7	AG	1257	0	1296	192	0
7	CG	1257	0	1296	213	0
8	AH	1116	0	1177	183	0
8	CH	1116	0	1177	170	0
9	AI	1004	0	1031	187	0
9	CI	1004	0	1031	200	0
10	AJ	795	0	840	215	0
10	CJ	795	0	840	192	0
11	AK	885	0	904	130	0
11	CK	885	0	904	111	0
12	AL	971	0	1057	168	0
12	CL	971	0	1057	133	0
13	AM	947	0	1008	191	0
13	CM	947	0	1008	135	0
14	AN	492	0	533	111	0
14	CN	492	0	533	95	0
15	AO	734	0	771	102	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
15	CO	734	0	771	111	0
16	AP	701	0	720	122	0
16	CP	701	0	720	98	0
17	AQ	824	0	891	108	0
17	CQ	824	0	891	88	0
18	AR	574	0	644	108	0
18	CR	574	0	644	102	0
19	AS	613	0	621	132	0
19	CS	619	0	639	120	0
20	AT	763	0	861	142	0
20	CT	763	0	861	138	0
21	AU	209	0	221	15	0
21	CU	209	0	221	31	0
22	AV	1367	0	1364	182	0
22	CV	1367	0	1364	199	0
23	AW	1644	0	834	67	0
23	CW	1644	0	836	75	0
24	AX	110	0	55	4	0
24	CX	110	0	55	3	0
25	BA	59596	0	30049	2582	0
25	DA	59809	0	30157	2949	0
26	BB	2551	0	1295	92	0
26	DB	2551	0	1295	145	0
27	BC	1702	0	1747	274	0
27	DC	1640	0	1651	242	0
28	BD	2127	0	2208	330	0
28	DD	2115	0	2186	338	0
29	BE	1564	0	1629	252	0
29	DE	1564	0	1629	273	0
30	BF	1624	0	1677	280	0
30	DF	1624	0	1677	300	0
31	BG	1474	0	1535	285	0
31	DG	1474	0	1535	269	0
32	BH	1231	0	1260	198	0
32	DH	1223	0	1282	234	0
33	BI	1043	0	1019	181	0
33	DI	871	0	680	103	0
34	BN	1105	0	1180	132	0
34	DN	1105	0	1180	175	0
35	BO	933	0	996	158	0
35	DO	933	0	996	112	0
36	BP	1114	0	1187	332	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
36	DP	1079	0	1117	265	0
37	BQ	1099	0	1160	144	0
37	DQ	1122	0	1179	190	0
38	BR	923	0	949	105	0
38	DR	960	0	1021	156	0
39	BS	777	0	825	180	0
39	DS	771	0	832	159	0
40	BT	1142	0	1202	274	0
40	DT	1142	0	1202	231	0
41	BU	958	0	1015	150	0
41	DU	958	0	1015	224	0
42	BV	779	0	852	167	0
42	DV	779	0	852	217	0
43	BW	896	0	953	91	0
43	DW	896	0	953	126	0
44	BX	735	0	791	85	0
44	DX	726	0	778	122	0
45	BY	757	0	821	198	0
45	DY	776	0	870	199	0
46	BZ	1438	0	1455	202	0
46	DZ	1404	0	1432	302	0
47	B0	613	0	633	88	0
47	D0	662	0	688	109	0
48	B1	757	0	843	108	0
48	D1	732	0	808	99	0
49	B2	598	0	653	56	0
49	D2	598	0	653	101	0
50	B3	460	0	512	46	0
50	D3	468	0	523	91	0
51	B4	226	0	229	46	0
51	D4	226	0	229	39	0
52	B5	435	0	452	58	0
52	D5	459	0	477	64	0
53	B6	401	0	399	118	0
53	D6	322	0	250	85	0
54	B7	419	0	467	27	0
54	D7	419	0	467	49	0
55	B8	496	0	567	113	0
55	D8	467	0	519	114	0
56	B9	294	0	311	43	0
56	D9	299	0	325	31	0
57	AA	117	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
57	AL	1	0	0	0	0
57	AT	1	0	0	0	0
57	AW	2	0	0	0	0
57	B0	2	0	0	0	0
57	B1	1	0	0	0	0
57	B5	4	0	0	0	0
57	B7	1	0	0	0	0
57	BA	459	0	0	1	0
57	BB	9	0	0	0	0
57	BD	1	0	0	0	0
57	BE	1	0	0	0	0
57	BF	1	0	0	0	0
57	BH	1	0	0	0	0
57	BP	3	0	0	0	0
57	BQ	3	0	0	0	0
57	BR	1	0	0	0	0
57	BT	1	0	0	0	0
57	BU	1	0	0	0	0
57	BX	1	0	0	0	0
57	CA	109	0	0	0	0
57	CE	1	0	0	0	0
57	CW	5	0	0	0	0
57	CX	1	0	0	0	0
57	D5	2	0	0	0	0
57	D6	2	0	0	0	0
57	DA	305	0	0	0	0
57	DB	10	0	0	0	0
57	DD	1	0	0	0	0
57	DF	1	0	0	0	0
57	DP	1	0	0	0	0
57	DR	1	0	0	0	0
58	AD	1	0	0	0	0
58	B5	1	0	0	0	0
58	B9	1	0	0	0	0
58	CD	1	0	0	0	0
58	D5	1	0	0	1	0
58	D9	1	0	0	2	0
All	All	290405	0	198457	23826	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 49.

The worst 5 of 23826 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)
52:D5:49:CYS:SG	58:D5:103:ZN:ZN	0.84	1.63
56:D9:14:CYS:SG	58:D9:101:ZN:ZN	1.23	1.27
27:DC:180:SER:CB	27:DC:180:SER:OG	1.82	1.25
36:BP:59:LEU:HA	36:BP:61:ARG:NH1	1.53	1.21
39:BS:97:ARG:NH2	39:BS:98:VAL:HA	1.55	1.20

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	233/256 (91%)	128 (55%)	72 (31%)	33 (14%)	0	1
2	CB	233/256 (91%)	138 (59%)	54 (23%)	41 (18%)	0	0
3	AC	205/239 (86%)	106 (52%)	68 (33%)	31 (15%)	0	0
3	CC	205/239 (86%)	134 (65%)	45 (22%)	26 (13%)	0	1
4	AD	206/209 (99%)	124 (60%)	52 (25%)	30 (15%)	0	1
4	CD	206/209 (99%)	132 (64%)	46 (22%)	28 (14%)	0	1
5	AE	149/162 (92%)	107 (72%)	26 (17%)	16 (11%)	0	2
5	CE	149/162 (92%)	98 (66%)	37 (25%)	14 (9%)	0	3
6	AF	99/101 (98%)	63 (64%)	27 (27%)	9 (9%)	1	4
6	CF	99/101 (98%)	61 (62%)	19 (19%)	19 (19%)	0	0
7	AG	153/156 (98%)	98 (64%)	39 (26%)	16 (10%)	0	3
7	CG	153/156 (98%)	95 (62%)	34 (22%)	24 (16%)	0	0
8	AH	136/138 (99%)	96 (71%)	28 (21%)	12 (9%)	1	4
8	CH	136/138 (99%)	93 (68%)	26 (19%)	17 (12%)	0	1
9	AI	125/128 (98%)	82 (66%)	27 (22%)	16 (13%)	0	1
9	CI	125/128 (98%)	80 (64%)	32 (26%)	13 (10%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	AJ	97/105 (92%)	58 (60%)	29 (30%)	10 (10%)	0	3
10	CJ	97/105 (92%)	59 (61%)	26 (27%)	12 (12%)	0	1
11	AK	117/129 (91%)	88 (75%)	23 (20%)	6 (5%)	2	13
11	CK	117/129 (91%)	86 (74%)	25 (21%)	6 (5%)	2	13
12	AL	123/132 (93%)	84 (68%)	23 (19%)	16 (13%)	0	1
12	CL	123/132 (93%)	86 (70%)	21 (17%)	16 (13%)	0	1
13	AM	118/126 (94%)	72 (61%)	24 (20%)	22 (19%)	0	0
13	CM	118/126 (94%)	72 (61%)	22 (19%)	24 (20%)	0	0
14	AN	58/61 (95%)	34 (59%)	14 (24%)	10 (17%)	0	0
14	CN	58/61 (95%)	33 (57%)	15 (26%)	10 (17%)	0	0
15	AO	86/89 (97%)	58 (67%)	20 (23%)	8 (9%)	0	3
15	CO	86/89 (97%)	55 (64%)	19 (22%)	12 (14%)	0	1
16	AP	82/88 (93%)	46 (56%)	26 (32%)	10 (12%)	0	1
16	CP	82/88 (93%)	46 (56%)	26 (32%)	10 (12%)	0	1
17	AQ	98/105 (93%)	73 (74%)	14 (14%)	11 (11%)	0	2
17	CQ	98/105 (93%)	71 (72%)	19 (19%)	8 (8%)	1	5
18	AR	68/88 (77%)	39 (57%)	17 (25%)	12 (18%)	0	0
18	CR	68/88 (77%)	37 (54%)	26 (38%)	5 (7%)	1	6
19	AS	78/93 (84%)	47 (60%)	16 (20%)	15 (19%)	0	0
19	CS	76/93 (82%)	50 (66%)	16 (21%)	10 (13%)	0	1
20	AT	97/106 (92%)	66 (68%)	18 (19%)	13 (13%)	0	1
20	CT	97/106 (92%)	57 (59%)	27 (28%)	13 (13%)	0	1
21	AU	23/27 (85%)	12 (52%)	7 (30%)	4 (17%)	0	0
21	CU	23/27 (85%)	13 (56%)	7 (30%)	3 (13%)	0	1
22	AV	172/184 (94%)	124 (72%)	31 (18%)	17 (10%)	0	3
22	CV	172/184 (94%)	126 (73%)	28 (16%)	18 (10%)	0	3
27	BC	222/229 (97%)	165 (74%)	33 (15%)	24 (11%)	0	2
27	DC	216/229 (94%)	141 (65%)	62 (29%)	13 (6%)	1	9
28	BD	272/276 (99%)	194 (71%)	47 (17%)	31 (11%)	0	2
28	DD	272/276 (99%)	187 (69%)	47 (17%)	38 (14%)	0	1
29	BE	203/206 (98%)	130 (64%)	37 (18%)	36 (18%)	0	0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
29	DE	203/206 (98%)	122 (60%)	35 (17%)	46 (23%)	0	0
30	BF	206/210 (98%)	136 (66%)	46 (22%)	24 (12%)	0	1
30	DF	206/210 (98%)	123 (60%)	48 (23%)	35 (17%)	0	0
31	BG	179/182 (98%)	118 (66%)	43 (24%)	18 (10%)	0	3
31	DG	179/182 (98%)	109 (61%)	44 (25%)	26 (14%)	0	1
32	BH	166/180 (92%)	98 (59%)	33 (20%)	35 (21%)	0	0
32	DH	158/180 (88%)	80 (51%)	49 (31%)	29 (18%)	0	0
33	BI	144/148 (97%)	84 (58%)	32 (22%)	28 (19%)	0	0
33	DI	144/148 (97%)	74 (51%)	41 (28%)	29 (20%)	0	0
34	BN	137/140 (98%)	104 (76%)	14 (10%)	19 (14%)	0	1
34	DN	137/140 (98%)	79 (58%)	38 (28%)	20 (15%)	0	1
35	BO	120/122 (98%)	91 (76%)	17 (14%)	12 (10%)	0	3
35	DO	120/122 (98%)	100 (83%)	15 (12%)	5 (4%)	3	16
36	BP	144/150 (96%)	71 (49%)	34 (24%)	39 (27%)	0	0
36	DP	144/150 (96%)	69 (48%)	34 (24%)	41 (28%)	0	0
37	BQ	137/141 (97%)	102 (74%)	23 (17%)	12 (9%)	1	4
37	DQ	139/141 (99%)	91 (66%)	35 (25%)	13 (9%)	0	3
38	BR	114/118 (97%)	82 (72%)	21 (18%)	11 (10%)	0	3
38	DR	115/118 (98%)	81 (70%)	17 (15%)	17 (15%)	0	0
39	BS	99/112 (88%)	44 (44%)	25 (25%)	30 (30%)	0	0
39	DS	97/112 (87%)	48 (50%)	25 (26%)	24 (25%)	0	0
40	BT	136/146 (93%)	86 (63%)	21 (15%)	29 (21%)	0	0
40	DT	136/146 (93%)	72 (53%)	33 (24%)	31 (23%)	0	0
41	BU	115/118 (98%)	74 (64%)	31 (27%)	10 (9%)	1	4
41	DU	115/118 (98%)	75 (65%)	25 (22%)	15 (13%)	0	1
42	BV	99/101 (98%)	68 (69%)	13 (13%)	18 (18%)	0	0
42	DV	99/101 (98%)	57 (58%)	20 (20%)	22 (22%)	0	0
43	BW	111/113 (98%)	75 (68%)	24 (22%)	12 (11%)	0	2
43	DW	111/113 (98%)	82 (74%)	18 (16%)	11 (10%)	0	3
44	BX	92/96 (96%)	64 (70%)	21 (23%)	7 (8%)	1	5
44	DX	91/96 (95%)	64 (70%)	16 (18%)	11 (12%)	0	1

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	BY	99/110 (90%)	38 (38%)	23 (23%)	38 (38%)	0	0
45	DY	99/110 (90%)	39 (39%)	26 (26%)	34 (34%)	0	0
46	BZ	180/206 (87%)	114 (63%)	41 (23%)	25 (14%)	0	1
46	DZ	175/206 (85%)	103 (59%)	46 (26%)	26 (15%)	0	0
47	B0	75/85 (88%)	60 (80%)	13 (17%)	2 (3%)	5	25
47	D0	82/85 (96%)	60 (73%)	15 (18%)	7 (8%)	1	5
48	B1	94/98 (96%)	65 (69%)	15 (16%)	14 (15%)	0	0
48	D1	92/98 (94%)	65 (71%)	17 (18%)	10 (11%)	0	2
49	B2	69/72 (96%)	53 (77%)	9 (13%)	7 (10%)	0	3
49	D2	69/72 (96%)	41 (59%)	17 (25%)	11 (16%)	0	0
50	B3	57/60 (95%)	51 (90%)	5 (9%)	1 (2%)	8	34
50	D3	58/60 (97%)	38 (66%)	13 (22%)	7 (12%)	0	1
51	B4	29/71 (41%)	13 (45%)	9 (31%)	7 (24%)	0	0
51	D4	29/71 (41%)	13 (45%)	9 (31%)	7 (24%)	0	0
52	B5	55/60 (92%)	31 (56%)	10 (18%)	14 (26%)	0	0
52	D5	57/60 (95%)	35 (61%)	11 (19%)	11 (19%)	0	0
53	B6	47/54 (87%)	19 (40%)	13 (28%)	15 (32%)	0	0
53	D6	46/54 (85%)	19 (41%)	11 (24%)	16 (35%)	0	0
54	B7	47/49 (96%)	40 (85%)	7 (15%)	0	100	100
54	D7	47/49 (96%)	37 (79%)	6 (13%)	4 (8%)	1	5
55	B8	61/65 (94%)	36 (59%)	16 (26%)	9 (15%)	0	0
55	D8	60/65 (92%)	37 (62%)	14 (23%)	9 (15%)	0	0
56	B9	34/37 (92%)	24 (71%)	9 (26%)	1 (3%)	4	24
56	D9	34/37 (92%)	31 (91%)	3 (9%)	0	100	100
All	All	12117/12954 (94%)	7729 (64%)	2646 (22%)	1742 (14%)	0	1

5 of 1742 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	23	ARG
2	AB	26	PRO
2	AB	75	LYS
2	AB	128	GLU

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	202/220 (92%)	173 (86%)	29 (14%)	3	14
2	CB	202/220 (92%)	179 (89%)	23 (11%)	5	23
3	AC	160/188 (85%)	142 (89%)	18 (11%)	6	23
3	CC	160/188 (85%)	146 (91%)	14 (9%)	10	36
4	AD	180/181 (99%)	157 (87%)	23 (13%)	4	18
4	CD	180/181 (99%)	158 (88%)	22 (12%)	5	19
5	AE	115/123 (94%)	102 (89%)	13 (11%)	6	23
5	CE	115/123 (94%)	104 (90%)	11 (10%)	8	31
6	AF	90/90 (100%)	77 (86%)	13 (14%)	3	14
6	CF	90/90 (100%)	81 (90%)	9 (10%)	7	28
7	AG	126/127 (99%)	112 (89%)	14 (11%)	6	24
7	CG	126/127 (99%)	110 (87%)	16 (13%)	4	18
8	AH	119/119 (100%)	109 (92%)	10 (8%)	11	38
8	CH	119/119 (100%)	108 (91%)	11 (9%)	9	33
9	AI	97/99 (98%)	80 (82%)	17 (18%)	2	8
9	CI	97/99 (98%)	78 (80%)	19 (20%)	1	6
10	AJ	88/92 (96%)	75 (85%)	13 (15%)	3	13
10	CJ	88/92 (96%)	79 (90%)	9 (10%)	7	27
11	AK	90/99 (91%)	85 (94%)	5 (6%)	21	52
11	CK	90/99 (91%)	81 (90%)	9 (10%)	7	28
12	AL	104/109 (95%)	94 (90%)	10 (10%)	8	31
12	CL	104/109 (95%)	92 (88%)	12 (12%)	5	22
13	AM	95/101 (94%)	74 (78%)	21 (22%)	1	4
13	CM	95/101 (94%)	79 (83%)	16 (17%)	2	9
14	AN	49/50 (98%)	40 (82%)	9 (18%)	1	7
14	CN	49/50 (98%)	44 (90%)	5 (10%)	7	27

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	AO	79/80 (99%)	73 (92%)	6 (8%)	13	41
15	CO	79/80 (99%)	73 (92%)	6 (8%)	13	41
16	AP	72/74 (97%)	64 (89%)	8 (11%)	6	24
16	CP	72/74 (97%)	65 (90%)	7 (10%)	8	30
17	AQ	94/97 (97%)	86 (92%)	8 (8%)	10	37
17	CQ	94/97 (97%)	86 (92%)	8 (8%)	10	37
18	AR	61/77 (79%)	57 (93%)	4 (7%)	16	47
18	CR	61/77 (79%)	54 (88%)	7 (12%)	5	22
19	AS	65/80 (81%)	52 (80%)	13 (20%)	1	5
19	CS	68/80 (85%)	56 (82%)	12 (18%)	2	8
20	AT	76/82 (93%)	67 (88%)	9 (12%)	5	21
20	CT	76/82 (93%)	66 (87%)	10 (13%)	4	17
21	AU	19/22 (86%)	17 (90%)	2 (10%)	7	26
21	CU	19/22 (86%)	18 (95%)	1 (5%)	22	54
22	AV	148/154 (96%)	136 (92%)	12 (8%)	11	39
22	CV	148/154 (96%)	129 (87%)	19 (13%)	4	18
27	BC	175/181 (97%)	148 (85%)	27 (15%)	2	11
27	DC	165/181 (91%)	146 (88%)	19 (12%)	5	22
28	BD	215/218 (99%)	179 (83%)	36 (17%)	2	9
28	DD	213/218 (98%)	184 (86%)	29 (14%)	3	16
29	BE	165/166 (99%)	144 (87%)	21 (13%)	4	18
29	DE	165/166 (99%)	140 (85%)	25 (15%)	3	12
30	BF	165/166 (99%)	137 (83%)	28 (17%)	2	9
30	DF	165/166 (99%)	143 (87%)	22 (13%)	4	16
31	BG	155/156 (99%)	126 (81%)	29 (19%)	1	7
31	DG	155/156 (99%)	132 (85%)	23 (15%)	3	13
32	BH	127/148 (86%)	115 (91%)	12 (9%)	8	32
32	DH	132/148 (89%)	111 (84%)	21 (16%)	2	11
33	BI	97/124 (78%)	78 (80%)	19 (20%)	1	6
33	DI	49/124 (40%)	41 (84%)	8 (16%)	2	10
34	BN	117/119 (98%)	95 (81%)	22 (19%)	1	6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
34	DN	117/119 (98%)	100 (86%)	17 (14%)	3	13
35	BO	100/100 (100%)	90 (90%)	10 (10%)	7	28
35	DO	100/100 (100%)	91 (91%)	9 (9%)	9	34
36	BP	112/116 (97%)	88 (79%)	24 (21%)	1	4
36	DP	103/116 (89%)	81 (79%)	22 (21%)	1	4
37	BQ	109/111 (98%)	95 (87%)	14 (13%)	4	18
37	DQ	111/111 (100%)	100 (90%)	11 (10%)	8	29
38	BR	92/101 (91%)	80 (87%)	12 (13%)	4	18
38	DR	100/101 (99%)	83 (83%)	17 (17%)	2	9
39	BS	76/88 (86%)	61 (80%)	15 (20%)	1	6
39	DS	77/88 (88%)	60 (78%)	17 (22%)	1	4
40	BT	120/127 (94%)	94 (78%)	26 (22%)	1	4
40	DT	120/127 (94%)	97 (81%)	23 (19%)	1	6
41	BU	92/94 (98%)	77 (84%)	15 (16%)	2	10
41	DU	92/94 (98%)	82 (89%)	10 (11%)	6	25
42	BV	82/82 (100%)	63 (77%)	19 (23%)	1	3
42	DV	82/82 (100%)	66 (80%)	16 (20%)	1	6
43	BW	91/92 (99%)	77 (85%)	14 (15%)	2	11
43	DW	91/92 (99%)	84 (92%)	7 (8%)	13	41
44	BX	75/78 (96%)	64 (85%)	11 (15%)	3	13
44	DX	74/78 (95%)	66 (89%)	8 (11%)	6	25
45	BY	79/91 (87%)	64 (81%)	15 (19%)	1	6
45	DY	84/91 (92%)	69 (82%)	15 (18%)	2	8
46	BZ	158/179 (88%)	136 (86%)	22 (14%)	3	15
46	DZ	155/179 (87%)	131 (84%)	24 (16%)	2	11
47	B0	62/67 (92%)	56 (90%)	6 (10%)	8	30
47	D0	66/67 (98%)	56 (85%)	10 (15%)	3	12
48	B1	81/83 (98%)	66 (82%)	15 (18%)	1	7
48	D1	78/83 (94%)	69 (88%)	9 (12%)	5	22
49	B2	66/67 (98%)	57 (86%)	9 (14%)	3	16
49	D2	66/67 (98%)	57 (86%)	9 (14%)	3	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
50	B3	50/52 (96%)	43 (86%)	7 (14%)	3	15
50	D3	51/52 (98%)	48 (94%)	3 (6%)	19	50
51	B4	27/63 (43%)	23 (85%)	4 (15%)	3	13
51	D4	27/63 (43%)	25 (93%)	2 (7%)	13	42
52	B5	48/52 (92%)	36 (75%)	12 (25%)	0	2
52	D5	51/52 (98%)	44 (86%)	7 (14%)	3	16
53	B6	43/52 (83%)	32 (74%)	11 (26%)	0	1
53	D6	24/52 (46%)	14 (58%)	10 (42%)	0	0
54	B7	41/42 (98%)	38 (93%)	3 (7%)	14	43
54	D7	41/42 (98%)	32 (78%)	9 (22%)	1	4
55	B8	52/55 (94%)	44 (85%)	8 (15%)	2	11
55	D8	46/55 (84%)	36 (78%)	10 (22%)	1	4
56	B9	32/34 (94%)	26 (81%)	6 (19%)	1	6
56	D9	33/34 (97%)	28 (85%)	5 (15%)	3	12
All	All	9998/10736 (93%)	8606 (86%)	1392 (14%)	3	15

5 of 1392 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
18	CR	19	LYS
35	DO	96	THR
20	CT	75	ASN
17	CQ	78	GLU
29	DE	173	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 340 such sidechains are listed below:

Mol	Chain	Res	Type
19	CS	56	GLN
36	DP	84	ASN
22	CV	55	ASN
29	DE	159	HIS
41	DU	81	HIS

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1492/1509 (98%)	236 (15%)	40 (2%)
1	CA	1503/1509 (99%)	227 (15%)	33 (2%)
23	AW	76/77 (98%)	18 (23%)	2 (2%)
23	CW	76/77 (98%)	19 (25%)	6 (7%)
24	AX	4/5 (80%)	0	0
24	CX	4/5 (80%)	0	0
25	BA	2761/2915 (94%)	508 (18%)	77 (2%)
25	DA	2771/2915 (95%)	546 (19%)	84 (3%)
26	BB	118/122 (96%)	19 (16%)	2 (1%)
26	DB	118/122 (96%)	20 (16%)	2 (1%)
All	All	8923/9256 (96%)	1593 (17%)	246 (2%)

5 of 1593 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	31	G
1	AA	32	A
1	AA	39	G
1	AA	47	C

5 of 246 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
25	BA	2756	U
25	DA	2225	A
1	CA	968	A
25	DA	2171	A
25	DA	2611	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 1056 ligands modelled in this entry, 1056 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	AA	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	AA	1222:G	O3'	1223:C	P	1.79

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	1495/1509 (99%)	0.09	40 (2%) 54 31	43, 73, 89, 96	1 (0%)
1	CA	1504/1509 (99%)	0.16	32 (2%) 63 43	47, 71, 88, 97	1 (0%)
2	AB	235/256 (91%)	0.22	18 (7%) 13 5	65, 75, 82, 88	0
2	CB	235/256 (91%)	0.34	22 (9%) 8 3	66, 76, 82, 85	0
3	AC	207/239 (86%)	0.33	12 (5%) 23 10	67, 75, 82, 86	0
3	CC	207/239 (86%)	0.35	19 (9%) 9 3	67, 75, 81, 84	0
4	AD	208/209 (99%)	-0.08	2 (0%) 82 67	61, 72, 79, 85	0
4	CD	208/209 (99%)	-0.05	5 (2%) 59 37	55, 68, 75, 83	0
5	AE	151/162 (93%)	0.22	9 (5%) 21 10	60, 69, 76, 83	0
5	CE	151/162 (93%)	0.21	5 (3%) 46 24	60, 69, 77, 90	0
6	AF	101/101 (100%)	-0.36	1 (0%) 82 67	56, 67, 76, 81	0
6	CF	101/101 (100%)	-0.03	2 (1%) 65 44	61, 70, 78, 83	0
7	AG	155/156 (99%)	0.09	8 (5%) 27 12	63, 74, 80, 83	0
7	CG	155/156 (99%)	0.44	13 (8%) 11 4	67, 74, 81, 84	0
8	AH	138/138 (100%)	-0.04	2 (1%) 75 56	56, 69, 74, 79	0
8	CH	138/138 (100%)	0.02	4 (2%) 51 28	57, 70, 76, 82	0
9	AI	127/128 (99%)	0.55	11 (8%) 10 4	66, 77, 83, 87	0
9	CI	127/128 (99%)	1.02	28 (22%) 0 0	70, 77, 83, 86	0
10	AJ	99/105 (94%)	0.85	15 (15%) 2 1	66, 79, 84, 88	0
10	CJ	99/105 (94%)	1.96	45 (45%) 0 0	66, 79, 84, 87	0
11	AK	119/129 (92%)	0.57	10 (8%) 11 4	58, 68, 78, 82	0
11	CK	119/129 (92%)	0.07	4 (3%) 45 24	64, 72, 78, 84	0
12	AL	125/132 (94%)	-0.10	3 (2%) 59 37	53, 67, 76, 85	0
12	CL	125/132 (94%)	0.29	6 (4%) 30 14	56, 65, 74, 84	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	120/126 (95%)	0.32	7 (5%) 23 10	66, 75, 81, 83	0
13	CM	120/126 (95%)	0.26	7 (5%) 23 10	65, 75, 81, 84	0
14	AN	60/61 (98%)	0.08	2 (3%) 46 24	65, 74, 80, 82	0
14	CN	60/61 (98%)	0.12	1 (1%) 70 49	62, 74, 78, 82	0
15	AO	88/89 (98%)	-0.05	0 100 100	52, 66, 74, 79	0
15	CO	88/89 (98%)	-0.06	1 (1%) 80 64	59, 68, 76, 78	0
16	AP	84/88 (95%)	0.21	6 (7%) 16 6	62, 69, 77, 80	0
16	CP	84/88 (95%)	0.38	2 (2%) 59 37	59, 66, 75, 83	0
17	AQ	100/105 (95%)	0.17	2 (2%) 65 44	59, 68, 75, 76	0
17	CQ	100/105 (95%)	-0.05	0 100 100	58, 68, 76, 78	0
18	AR	70/88 (79%)	0.07	0 100 100	58, 69, 78, 85	0
18	CR	70/88 (79%)	0.50	4 (5%) 23 11	63, 69, 77, 82	0
19	AS	80/93 (86%)	0.40	5 (6%) 20 8	66, 76, 83, 86	0
19	CS	78/93 (83%)	0.60	9 (11%) 4 2	70, 76, 82, 84	0
20	AT	99/106 (93%)	0.28	6 (6%) 21 9	62, 71, 79, 83	0
20	CT	99/106 (93%)	0.25	5 (5%) 28 13	63, 69, 77, 83	0
21	AU	25/27 (92%)	1.11	5 (20%) 1 0	67, 74, 81, 83	0
21	CU	25/27 (92%)	1.48	6 (24%) 0 0	68, 77, 83, 85	0
22	AV	176/184 (95%)	-0.04	3 (1%) 70 49	51, 71, 79, 83	0
22	CV	176/184 (95%)	0.34	13 (7%) 14 5	58, 72, 80, 84	0
23	AW	77/77 (100%)	0.21	2 (2%) 56 33	45, 69, 81, 92	0
23	CW	77/77 (100%)	-0.18	0 100 100	58, 72, 83, 87	0
24	AX	5/5 (100%)	0.66	0 100 100	65, 65, 83, 88	0
24	CX	5/5 (100%)	0.65	1 (20%) 1 0	68, 70, 82, 88	0
25	BA	2767/2915 (94%)	0.07	48 (1%) 70 49	25, 53, 82, 97	0
25	DA	2777/2915 (95%)	0.13	58 (2%) 63 43	38, 65, 85, 97	0
26	BB	119/122 (97%)	-0.17	0 100 100	53, 67, 77, 86	0
26	DB	119/122 (97%)	0.18	3 (2%) 57 34	68, 77, 83, 92	0
27	BC	224/229 (97%)	0.52	17 (7%) 13 5	67, 76, 81, 86	1 (0%)
27	DC	220/229 (96%)	0.55	24 (10%) 5 2	66, 76, 82, 87	1 (0%)
28	BD	274/276 (99%)	-0.06	2 (0%) 87 75	38, 53, 65, 74	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	DD	274/276 (99%)	0.08	7 (2%) 56 33	42, 59, 70, 77	0
29	BE	205/206 (99%)	-0.04	2 (0%) 82 67	38, 58, 73, 77	0
29	DE	205/206 (99%)	0.15	11 (5%) 25 12	46, 65, 78, 82	0
30	BF	208/210 (99%)	0.18	10 (4%) 30 14	35, 58, 78, 88	0
30	DF	208/210 (99%)	0.14	5 (2%) 59 37	52, 69, 78, 90	0
31	BG	181/182 (99%)	0.03	4 (2%) 62 41	60, 71, 79, 86	0
31	DG	181/182 (99%)	0.38	12 (6%) 18 7	65, 73, 81, 85	0
32	BH	168/180 (93%)	0.11	4 (2%) 59 37	25, 66, 75, 82	0
32	DH	160/180 (88%)	0.71	27 (16%) 1 0	66, 76, 82, 87	0
33	BI	146/148 (98%)	-0.14	2 (1%) 75 56	55, 71, 77, 84	0
33	DI	146/148 (98%)	0.03	3 (2%) 63 43	60, 73, 80, 83	0
34	BN	139/140 (99%)	-0.15	2 (1%) 75 56	46, 59, 72, 77	0
34	DN	139/140 (99%)	0.23	3 (2%) 62 41	60, 70, 77, 82	0
35	BO	122/122 (100%)	-0.18	0 100 100	44, 59, 70, 73	0
35	DO	122/122 (100%)	0.14	2 (1%) 72 51	50, 63, 71, 75	0
36	BP	146/150 (97%)	0.33	4 (2%) 54 31	40, 65, 76, 81	0
36	DP	146/150 (97%)	0.66	17 (11%) 4 2	52, 70, 78, 82	0
37	BQ	139/141 (98%)	-0.14	1 (0%) 87 75	45, 61, 71, 80	0
37	DQ	141/141 (100%)	0.15	5 (3%) 44 23	54, 69, 77, 83	0
38	BR	116/118 (98%)	-0.00	0 100 100	39, 57, 69, 74	0
38	DR	117/118 (99%)	0.11	0 100 100	50, 63, 73, 78	0
39	BS	101/112 (90%)	0.60	11 (10%) 5 2	49, 69, 74, 80	0
39	DS	99/112 (88%)	0.57	13 (13%) 3 1	63, 72, 79, 86	0
40	BT	138/146 (94%)	0.14	8 (5%) 23 10	52, 65, 79, 83	0
40	DT	138/146 (94%)	0.15	6 (4%) 35 17	56, 67, 81, 84	0
41	BU	117/118 (99%)	0.07	3 (2%) 56 33	41, 54, 68, 78	0
41	DU	117/118 (99%)	0.10	3 (2%) 56 33	55, 67, 76, 81	0
42	BV	101/101 (100%)	-0.15	1 (0%) 82 67	41, 60, 71, 75	0
42	DV	101/101 (100%)	0.37	3 (2%) 50 27	58, 74, 79, 85	0
43	BW	113/113 (100%)	-0.01	1 (0%) 84 69	44, 53, 70, 86	0
43	DW	113/113 (100%)	-0.02	1 (0%) 84 69	56, 64, 78, 87	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	BX	94/96 (97%)	0.01	0 100 100	42, 57, 69, 79	0
44	DX	93/96 (96%)	0.11	4 (4%) 35 17	53, 67, 73, 81	0
45	BY	101/110 (91%)	0.06	3 (2%) 50 27	51, 64, 77, 81	0
45	DY	101/110 (91%)	0.43	8 (7%) 12 5	63, 74, 82, 85	0
46	BZ	182/206 (88%)	-0.02	3 (1%) 72 51	56, 70, 78, 83	0
46	DZ	177/206 (85%)	0.47	14 (7%) 12 5	68, 76, 83, 87	0
47	B0	77/85 (90%)	0.15	2 (2%) 56 33	49, 59, 72, 81	0
47	D0	84/85 (98%)	0.43	6 (7%) 16 6	59, 68, 78, 84	0
48	B1	96/98 (97%)	-0.09	0 100 100	42, 60, 72, 77	0
48	D1	94/98 (95%)	0.32	6 (6%) 19 8	50, 64, 75, 78	0
49	B2	71/72 (98%)	-0.20	0 100 100	50, 61, 75, 80	0
49	D2	71/72 (98%)	-0.23	2 (2%) 53 30	60, 71, 79, 87	0
50	B3	59/60 (98%)	0.13	5 (8%) 10 4	45, 59, 71, 74	0
50	D3	60/60 (100%)	0.90	8 (13%) 3 1	62, 72, 82, 85	0
51	B4	31/71 (43%)	-0.06	1 (3%) 47 25	69, 75, 80, 86	0
51	D4	31/71 (43%)	0.23	2 (6%) 18 8	67, 74, 81, 84	0
52	B5	57/60 (95%)	-0.22	0 100 100	40, 55, 71, 73	0
52	D5	59/60 (98%)	0.33	5 (8%) 10 4	55, 68, 78, 86	0
53	B6	49/54 (90%)	0.53	8 (16%) 1 1	39, 65, 75, 75	0
53	D6	48/54 (88%)	0.06	3 (6%) 20 8	54, 66, 73, 78	0
54	B7	49/49 (100%)	-0.01	0 100 100	35, 46, 69, 76	0
54	D7	49/49 (100%)	0.76	4 (8%) 11 4	47, 58, 77, 83	0
55	B8	63/65 (96%)	0.11	2 (3%) 47 25	43, 56, 69, 75	0
55	D8	62/65 (95%)	0.33	5 (8%) 12 5	54, 62, 68, 76	0
56	B9	36/37 (97%)	0.45	5 (13%) 2 1	52, 59, 69, 71	0
56	D9	36/37 (97%)	0.30	1 (2%) 53 30	60, 69, 76, 82	0
All	All	21272/22210 (95%)	0.17	823 (3%) 39 20	25, 68, 82, 97	4 (0%)

The worst 5 of 823 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	CA	82	U	9.6
1	CA	83	U	8.8

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Mol	Chain	Res	Type	RSRZ
25	DA	2802	G	8.3
45	DY	51	VAL	8.2
1	CA	81	U	7.8

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
57	MG	BA	3022	1/1	0.18	2.25	205,205,205,205	0
57	MG	BA	3442	1/1	0.39	3.28	205,205,205,205	0
57	MG	BA	3139	1/1	0.43	0.88	72,72,72,72	0
57	MG	AA	1611	1/1	0.47	0.91	58,58,58,58	0
57	MG	CW	102	1/1	0.47	0.48	93,93,93,93	0
57	MG	DA	3072	1/1	0.48	0.53	72,72,72,72	0
57	MG	DA	3164	1/1	0.50	0.65	83,83,83,83	0
57	MG	BA	3332	1/1	0.55	0.17	61,61,61,61	0
57	MG	BA	3448	1/1	0.56	0.42	54,54,54,54	0
57	MG	DA	3255	1/1	0.56	0.31	46,46,46,46	0
57	MG	DA	3277	1/1	0.56	0.27	57,57,57,57	0
57	MG	BA	3323	1/1	0.59	1.30	205,205,205,205	0
57	MG	BA	3207	1/1	0.61	0.26	74,74,74,74	0
57	MG	DA	3151	1/1	0.63	0.30	43,43,43,43	0
57	MG	DA	3211	1/1	0.64	0.35	55,55,55,55	0
57	MG	BA	3118	1/1	0.64	2.55	205,205,205,205	0
57	MG	CA	1618	1/1	0.64	0.25	39,39,39,39	0
57	MG	BP	201	1/1	0.65	1.32	205,205,205,205	0
57	MG	DA	3175	1/1	0.66	0.50	56,56,56,56	0
57	MG	AA	1664	1/1	0.66	0.52	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	AA	1642	1/1	0.67	0.35	67,67,67,67	0
57	MG	DA	3184	1/1	0.67	0.36	54,54,54,54	0
57	MG	BA	3188	1/1	0.67	0.85	87,87,87,87	0
57	MG	AA	1604	1/1	0.67	0.41	38,38,38,38	0
57	MG	CE	201	1/1	0.67	0.35	42,42,42,42	0
57	MG	DA	3107	1/1	0.68	0.40	64,64,64,64	0
57	MG	CA	1608	1/1	0.68	0.70	52,52,52,52	0
57	MG	CA	1708	1/1	0.69	0.74	76,76,76,76	0
57	MG	DA	3195	1/1	0.69	0.85	73,73,73,73	0
57	MG	BA	3399	1/1	0.69	0.28	38,38,38,38	0
57	MG	AA	1689	1/1	0.69	0.17	55,55,55,55	0
57	MG	DA	3267	1/1	0.69	0.48	73,73,73,73	0
57	MG	BA	3052	1/1	0.69	0.45	30,30,30,30	0
57	MG	DA	3033	1/1	0.70	0.59	59,59,59,59	0
57	MG	CA	1604	1/1	0.70	0.26	38,38,38,38	0
57	MG	BA	3317	1/1	0.70	0.37	27,27,27,27	0
57	MG	DA	3300	1/1	0.70	0.20	38,38,38,38	0
57	MG	DA	3108	1/1	0.71	0.61	47,47,47,47	0
57	MG	DA	3122	1/1	0.71	0.19	48,48,48,48	0
57	MG	CA	1601	1/1	0.71	0.22	39,39,39,39	0
57	MG	DA	3070	1/1	0.71	0.39	46,46,46,46	0
57	MG	BA	3176	1/1	0.71	0.18	44,44,44,44	0
57	MG	CA	1686	1/1	0.71	0.29	44,44,44,44	0
57	MG	BA	3249	1/1	0.72	0.27	46,46,46,46	0
57	MG	DB	204	1/1	0.72	0.18	43,43,43,43	0
57	MG	DA	3270	1/1	0.73	0.30	47,47,47,47	0
57	MG	AA	1613	1/1	0.73	0.34	75,75,75,75	0
57	MG	BA	3125	1/1	0.73	0.33	60,60,60,60	0
57	MG	DA	3166	1/1	0.73	0.18	22,22,22,22	0
57	MG	BA	3355	1/1	0.74	0.56	31,31,31,31	0
57	MG	DA	3144	1/1	0.74	0.49	44,44,44,44	0
57	MG	BA	3432	1/1	0.74	0.58	70,70,70,70	0
57	MG	DB	202	1/1	0.74	0.12	61,61,61,61	0
57	MG	DA	3154	1/1	0.74	0.14	61,61,61,61	0
57	MG	BA	3086	1/1	0.75	1.91	130,130,130,130	0
57	MG	BA	3379	1/1	0.75	0.21	40,40,40,40	0
57	MG	AA	1601	1/1	0.75	0.22	47,47,47,47	0
57	MG	DA	3111	1/1	0.75	0.44	76,76,76,76	0
57	MG	BA	3407	1/1	0.75	0.33	66,66,66,66	0
57	MG	AA	1705	1/1	0.75	0.26	66,66,66,66	0
57	MG	BA	3133	1/1	0.75	0.37	60,60,60,60	0
57	MG	DB	210	1/1	0.75	0.23	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	BA	3449	1/1	0.76	0.21	53,53,53,53	0
57	MG	AA	1622	1/1	0.76	0.22	36,36,36,36	0
57	MG	CA	1652	1/1	0.76	0.47	59,59,59,59	0
57	MG	DA	3246	1/1	0.76	0.33	43,43,43,43	0
57	MG	BA	3388	1/1	0.76	0.40	37,37,37,37	0
57	MG	BA	3424	1/1	0.76	0.16	26,26,26,26	0
57	MG	DA	3266	1/1	0.77	0.36	46,46,46,46	0
57	MG	BA	3431	1/1	0.77	0.38	53,53,53,53	0
57	MG	CA	1655	1/1	0.77	0.19	34,34,34,34	0
57	MG	BA	3344	1/1	0.77	0.22	24,24,24,24	0
57	MG	BA	3268	1/1	0.78	0.61	46,46,46,46	0
57	MG	DA	3123	1/1	0.78	0.24	25,25,25,25	0
57	MG	DA	3142	1/1	0.78	0.26	51,51,51,51	0
57	MG	AA	1637	1/1	0.78	0.36	45,45,45,45	0
57	MG	BA	3175	1/1	0.78	0.23	71,71,71,71	0
57	MG	AA	1709	1/1	0.78	0.21	66,66,66,66	0
57	MG	AA	1621	1/1	0.78	0.19	48,48,48,48	0
57	MG	BA	3029	1/1	0.78	0.14	40,40,40,40	0
57	MG	BA	3038	1/1	0.78	1.44	163,163,163,163	0
57	MG	BA	3258	1/1	0.78	0.27	39,39,39,39	0
57	MG	DB	208	1/1	0.78	0.48	48,48,48,48	0
57	MG	CA	1695	1/1	0.78	0.26	38,38,38,38	0
58	ZN	AD	301	1/1	0.78	0.59	192,192,192,192	0
57	MG	CA	1629	1/1	0.79	0.24	25,25,25,25	0
57	MG	CA	1649	1/1	0.79	0.29	65,65,65,65	0
57	MG	DA	3192	1/1	0.79	0.27	43,43,43,43	0
57	MG	DA	3094	1/1	0.79	0.43	71,71,71,71	0
57	MG	DA	3200	1/1	0.79	0.28	66,66,66,66	0
57	MG	AA	1647	1/1	0.79	0.22	45,45,45,45	0
57	MG	AA	1619	1/1	0.79	0.47	66,66,66,66	0
57	MG	DB	209	1/1	0.79	0.23	41,41,41,41	0
57	MG	BA	3143	1/1	0.79	0.32	31,31,31,31	0
57	MG	DA	3067	1/1	0.79	0.19	56,56,56,56	0
57	MG	DA	3042	1/1	0.80	0.33	28,28,28,28	0
57	MG	BA	3354	1/1	0.80	0.39	25,25,25,25	0
57	MG	AA	1602	1/1	0.80	0.33	77,77,77,77	0
57	MG	DA	3152	1/1	0.80	0.33	61,61,61,61	0
57	MG	BA	3374	1/1	0.80	0.23	51,51,51,51	0
57	MG	BA	3428	1/1	0.80	0.20	24,24,24,24	0
57	MG	DA	3280	1/1	0.80	0.12	44,44,44,44	0
57	MG	BA	3378	1/1	0.80	0.22	55,55,55,55	0
57	MG	BA	3300	1/1	0.80	0.53	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3264	1/1	0.80	0.30	34,34,34,34	0
57	MG	DA	3117	1/1	0.80	0.18	42,42,42,42	0
57	MG	DA	3121	1/1	0.80	0.30	57,57,57,57	0
57	MG	BA	3444	1/1	0.80	0.99	101,101,101,101	0
57	MG	CA	1643	1/1	0.80	0.17	44,44,44,44	0
57	MG	AA	1645	1/1	0.81	0.36	52,52,52,52	0
57	MG	BA	3015	1/1	0.81	0.45	21,21,21,21	0
57	MG	BA	3254	1/1	0.81	0.27	37,37,37,37	0
57	MG	BA	3169	1/1	0.81	0.16	21,21,21,21	0
57	MG	CA	1640	1/1	0.81	0.62	61,61,61,61	0
57	MG	AA	1674	1/1	0.81	0.22	49,49,49,49	0
57	MG	CA	1646	1/1	0.81	0.20	59,59,59,59	0
57	MG	DB	203	1/1	0.81	0.20	66,66,66,66	0
57	MG	AA	1618	1/1	0.81	0.21	64,64,64,64	0
57	MG	DA	3204	1/1	0.81	0.12	41,41,41,41	0
57	MG	BA	3425	1/1	0.81	0.17	55,55,55,55	0
57	MG	AA	1659	1/1	0.81	0.19	58,58,58,58	0
57	MG	DF	301	1/1	0.81	0.54	49,49,49,49	0
57	MG	CA	1670	1/1	0.81	0.40	43,43,43,43	0
57	MG	AA	1704	1/1	0.82	0.15	64,64,64,64	0
57	MG	BA	3349	1/1	0.82	0.24	38,38,38,38	0
57	MG	BA	3153	1/1	0.82	0.14	42,42,42,42	0
57	MG	BA	3194	1/1	0.82	0.08	72,72,72,72	0
57	MG	BA	3361	1/1	0.82	0.24	31,31,31,31	0
57	MG	BA	3095	1/1	0.82	0.27	45,45,45,45	0
57	MG	BA	3434	1/1	0.82	0.29	28,28,28,28	0
57	MG	BA	3223	1/1	0.82	0.24	49,49,49,49	0
57	MG	BA	3236	1/1	0.82	0.27	62,62,62,62	0
57	MG	BA	3383	1/1	0.82	0.20	48,48,48,48	0
57	MG	BA	3239	1/1	0.82	0.24	46,46,46,46	0
57	MG	AA	1603	1/1	0.82	0.11	18,18,18,18	0
57	MG	BA	3459	1/1	0.83	0.18	35,35,35,35	0
57	MG	BA	3191	1/1	0.83	0.13	40,40,40,40	0
57	MG	DA	3269	1/1	0.83	0.27	47,47,47,47	0
57	MG	BA	3238	1/1	0.83	0.43	20,20,20,20	0
57	MG	DA	3045	1/1	0.83	0.26	59,59,59,59	0
57	MG	BA	3385	1/1	0.83	0.14	54,54,54,54	0
57	MG	DA	3297	1/1	0.83	0.17	48,48,48,48	0
57	MG	DA	3298	1/1	0.83	0.15	33,33,33,33	0
57	MG	BA	3292	1/1	0.83	0.43	24,24,24,24	0
57	MG	AA	1711	1/1	0.83	0.24	58,58,58,58	0
57	MG	BA	3180	1/1	0.83	0.31	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	AA	1657	1/1	0.83	0.16	54,54,54,54	0
57	MG	BA	3226	1/1	0.83	0.38	31,31,31,31	0
57	MG	DA	3248	1/1	0.83	0.21	36,36,36,36	0
57	MG	DA	3254	1/1	0.83	0.41	60,60,60,60	0
57	MG	DA	3161	1/1	0.83	0.78	50,50,50,50	0
57	MG	DA	3256	1/1	0.83	0.27	62,62,62,62	0
57	MG	DA	3282	1/1	0.84	0.24	65,65,65,65	0
57	MG	DA	3069	1/1	0.84	0.47	30,30,30,30	0
57	MG	DA	3149	1/1	0.84	0.49	38,38,38,38	0
57	MG	BA	3001	1/1	0.84	0.17	50,50,50,50	0
57	MG	DB	201	1/1	0.84	0.23	53,53,53,53	0
57	MG	BA	3195	1/1	0.84	0.20	47,47,47,47	0
57	MG	DA	3198	1/1	0.84	0.23	31,31,31,31	0
57	MG	BA	3190	1/1	0.84	0.21	34,34,34,34	0
57	MG	BA	3211	1/1	0.84	0.27	38,38,38,38	0
57	MG	DA	3129	1/1	0.84	0.23	47,47,47,47	0
57	MG	DA	3276	1/1	0.84	0.21	51,51,51,51	0
57	MG	DA	3220	1/1	0.84	0.35	31,31,31,31	0
57	MG	AA	1687	1/1	0.84	0.29	44,44,44,44	0
57	MG	AA	1686	1/1	0.85	0.15	42,42,42,42	0
57	MG	BA	3129	1/1	0.85	0.18	25,25,25,25	0
57	MG	CA	1602	1/1	0.85	0.19	35,35,35,35	0
57	MG	CA	1681	1/1	0.85	0.18	44,44,44,44	0
57	MG	AA	1636	1/1	0.85	0.17	62,62,62,62	0
57	MG	DA	3169	1/1	0.85	0.40	18,18,18,18	0
57	MG	AA	1654	1/1	0.85	0.26	29,29,29,29	0
57	MG	BA	3178	1/1	0.85	0.27	22,22,22,22	0
57	MG	DA	3185	1/1	0.85	0.37	37,37,37,37	0
57	MG	CA	1627	1/1	0.85	0.18	24,24,24,24	0
57	MG	BA	3408	1/1	0.85	0.43	57,57,57,57	0
57	MG	CW	105	1/1	0.85	0.33	61,61,61,61	0
57	MG	DA	3302	1/1	0.85	0.34	36,36,36,36	0
57	MG	DA	3010	1/1	0.85	0.41	66,66,66,66	0
57	MG	DA	3020	1/1	0.85	0.35	23,23,23,23	0
57	MG	BA	3446	1/1	0.85	0.69	60,60,60,60	0
57	MG	DA	3143	1/1	0.85	0.21	23,23,23,23	0
57	MG	DA	3227	1/1	0.85	0.35	37,37,37,37	0
57	MG	AA	1605	1/1	0.85	0.18	51,51,51,51	0
57	MG	BA	3381	1/1	0.85	0.43	66,66,66,66	0
57	MG	DA	3150	1/1	0.85	0.27	21,21,21,21	0
57	MG	BA	3427	1/1	0.85	0.18	40,40,40,40	0
57	MG	BA	3151	1/1	0.86	0.41	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BU	201	1/1	0.86	0.35	21,21,21,21	0
57	MG	CA	1672	1/1	0.86	0.23	29,29,29,29	0
57	MG	B0	101	1/1	0.86	0.38	30,30,30,30	0
57	MG	BA	3257	1/1	0.86	0.24	41,41,41,41	0
57	MG	AA	1661	1/1	0.86	0.22	67,67,67,67	0
57	MG	BA	3342	1/1	0.86	0.13	22,22,22,22	0
57	MG	DA	3278	1/1	0.86	0.27	59,59,59,59	0
57	MG	DA	3190	1/1	0.86	0.22	44,44,44,44	0
57	MG	BA	3262	1/1	0.86	0.51	32,32,32,32	0
57	MG	DA	3288	1/1	0.86	0.26	60,60,60,60	0
57	MG	BA	3346	1/1	0.86	0.50	50,50,50,50	0
57	MG	CA	1620	1/1	0.86	0.52	29,29,29,29	0
57	MG	AA	1617	1/1	0.86	0.27	43,43,43,43	0
57	MG	DA	3203	1/1	0.86	0.21	52,52,52,52	0
57	MG	BA	3014	1/1	0.86	0.37	24,24,24,24	0
57	MG	DA	3025	1/1	0.86	0.18	38,38,38,38	0
57	MG	DA	3028	1/1	0.86	0.14	34,34,34,34	0
57	MG	BA	3403	1/1	0.86	0.24	48,48,48,48	0
57	MG	DA	3245	1/1	0.86	0.28	52,52,52,52	0
57	MG	AA	1633	1/1	0.86	0.11	36,36,36,36	0
57	MG	BA	3251	1/1	0.86	0.27	23,23,23,23	0
57	MG	BA	3458	1/1	0.86	0.47	47,47,47,47	0
57	MG	D5	101	1/1	0.86	0.20	38,38,38,38	0
57	MG	BA	3372	1/1	0.86	0.25	59,59,59,59	0
57	MG	DA	3223	1/1	0.87	0.24	32,32,32,32	0
57	MG	BA	3390	1/1	0.87	0.20	48,48,48,48	0
57	MG	DA	3132	1/1	0.87	0.39	32,32,32,32	0
57	MG	CA	1635	1/1	0.87	0.25	22,22,22,22	0
57	MG	DA	3021	1/1	0.87	0.26	34,34,34,34	0
57	MG	CA	1638	1/1	0.87	0.39	35,35,35,35	0
57	MG	DA	3026	1/1	0.87	0.09	33,33,33,33	0
57	MG	BA	3270	1/1	0.87	0.31	43,43,43,43	0
57	MG	DA	3261	1/1	0.87	0.21	58,58,58,58	0
57	MG	BA	3243	1/1	0.87	0.27	51,51,51,51	0
57	MG	BA	3456	1/1	0.87	0.26	43,43,43,43	0
57	MG	DA	3044	1/1	0.87	0.42	69,69,69,69	0
57	MG	DA	3158	1/1	0.87	0.36	44,44,44,44	0
57	MG	DA	3273	1/1	0.87	0.30	55,55,55,55	0
57	MG	BA	3296	1/1	0.87	0.18	25,25,25,25	0
57	MG	DA	3049	1/1	0.87	0.25	15,15,15,15	0
57	MG	DA	3165	1/1	0.87	0.14	43,43,43,43	0
57	MG	BA	3204	1/1	0.87	0.45	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3412	1/1	0.87	0.27	35,35,35,35	0
57	MG	BA	3373	1/1	0.87	0.21	31,31,31,31	0
57	MG	AA	1646	1/1	0.87	0.15	49,49,49,49	0
57	MG	DA	3073	1/1	0.87	0.45	49,49,49,49	0
57	MG	DA	3088	1/1	0.87	0.20	20,20,20,20	0
57	MG	AA	1679	1/1	0.87	0.26	56,56,56,56	0
57	MG	BA	3092	1/1	0.87	0.34	36,36,36,36	0
57	MG	CA	1687	1/1	0.87	0.17	37,37,37,37	0
57	MG	BA	3380	1/1	0.87	0.31	37,37,37,37	0
57	MG	BA	3136	1/1	0.87	0.93	76,76,76,76	0
57	MG	AA	1685	1/1	0.87	0.29	42,42,42,42	0
57	MG	DA	3205	1/1	0.87	0.32	55,55,55,55	0
57	MG	DA	3208	1/1	0.87	0.09	59,59,59,59	0
57	MG	AA	1665	1/1	0.87	0.38	63,63,63,63	0
57	MG	DA	3213	1/1	0.87	0.17	28,28,28,28	0
57	MG	D6	101	1/1	0.87	0.26	57,57,57,57	0
57	MG	BA	3199	1/1	0.87	0.32	23,23,23,23	0
57	MG	CA	1680	1/1	0.88	0.18	31,31,31,31	0
57	MG	BA	3124	1/1	0.88	0.21	41,41,41,41	0
57	MG	AA	1609	1/1	0.88	0.21	48,48,48,48	0
57	MG	BA	3091	1/1	0.88	0.44	21,21,21,21	0
57	MG	DA	3081	1/1	0.88	0.25	37,37,37,37	0
57	MG	AA	1681	1/1	0.88	0.29	63,63,63,63	0
57	MG	DA	3177	1/1	0.88	0.48	52,52,52,52	0
57	MG	BA	3440	1/1	0.88	0.46	64,64,64,64	0
57	MG	BA	3093	1/1	0.88	0.17	23,23,23,23	0
57	MG	BA	3284	1/1	0.88	0.17	15,15,15,15	0
57	MG	BA	3290	1/1	0.88	0.22	22,22,22,22	0
57	MG	CA	1632	1/1	0.88	0.42	18,18,18,18	0
57	MG	DA	3016	1/1	0.88	0.44	24,24,24,24	0
57	MG	DA	3283	1/1	0.88	0.19	62,62,62,62	0
57	MG	DA	3286	1/1	0.88	0.27	52,52,52,52	0
57	MG	DA	3287	1/1	0.88	0.31	48,48,48,48	0
57	MG	AA	1706	1/1	0.88	0.12	47,47,47,47	0
57	MG	BA	3366	1/1	0.88	0.32	49,49,49,49	0
57	MG	DA	3125	1/1	0.88	0.27	26,26,26,26	0
57	MG	BA	3100	1/1	0.88	0.55	28,28,28,28	0
57	MG	BA	3253	1/1	0.88	0.54	41,41,41,41	0
57	MG	BA	3418	1/1	0.88	0.21	31,31,31,31	0
57	MG	DA	3031	1/1	0.88	0.26	24,24,24,24	0
57	MG	DA	3218	1/1	0.88	0.20	35,35,35,35	0
57	MG	BB	203	1/1	0.88	0.31	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3062	1/1	0.88	0.11	19,19,19,19	0
57	MG	DA	3043	1/1	0.88	0.23	39,39,39,39	0
57	MG	DA	3237	1/1	0.88	0.24	33,33,33,33	0
57	MG	BQ	203	1/1	0.88	0.21	27,27,27,27	0
57	MG	BA	3320	1/1	0.88	0.28	25,25,25,25	0
57	MG	BA	3224	1/1	0.88	0.31	31,31,31,31	0
57	MG	CA	1678	1/1	0.88	0.22	25,25,25,25	0
57	MG	BA	3013	1/1	0.89	0.16	56,56,56,56	0
57	MG	DA	3226	1/1	0.89	0.35	32,32,32,32	0
57	MG	CA	1603	1/1	0.89	0.21	49,49,49,49	0
57	MG	DA	3232	1/1	0.89	0.28	40,40,40,40	0
57	MG	CW	103	1/1	0.89	0.34	27,27,27,27	0
57	MG	BA	3301	1/1	0.89	0.22	33,33,33,33	0
57	MG	DA	3136	1/1	0.89	0.16	22,22,22,22	0
57	MG	DA	3001	1/1	0.89	0.32	61,61,61,61	0
57	MG	DA	3251	1/1	0.89	0.31	53,53,53,53	0
57	MG	CA	1605	1/1	0.89	0.42	62,62,62,62	0
57	MG	DA	3014	1/1	0.89	0.24	44,44,44,44	0
57	MG	BA	3311	1/1	0.89	0.18	31,31,31,31	0
57	MG	BA	3430	1/1	0.89	0.35	58,58,58,58	0
57	MG	AA	1632	1/1	0.89	0.44	57,57,57,57	0
57	MG	BA	3212	1/1	0.89	0.42	30,30,30,30	0
57	MG	BA	3218	1/1	0.89	0.39	23,23,23,23	0
57	MG	BA	3163	1/1	0.89	0.17	21,21,21,21	0
57	MG	BA	3384	1/1	0.89	0.25	42,42,42,42	0
57	MG	DA	3274	1/1	0.89	0.25	36,36,36,36	0
57	MG	BA	3111	1/1	0.89	0.15	20,20,20,20	0
57	MG	DA	3038	1/1	0.89	0.47	49,49,49,49	0
57	MG	BA	3445	1/1	0.89	0.14	36,36,36,36	0
57	MG	DA	3279	1/1	0.89	0.25	43,43,43,43	0
57	MG	BA	3171	1/1	0.89	0.44	41,41,41,41	0
57	MG	CA	1644	1/1	0.89	0.39	30,30,30,30	0
57	MG	DA	3176	1/1	0.89	0.32	24,24,24,24	0
57	MG	BA	3230	1/1	0.89	0.29	34,34,34,34	0
57	MG	BA	3232	1/1	0.89	0.43	38,38,38,38	0
57	MG	BA	3116	1/1	0.89	0.11	23,23,23,23	0
57	MG	DA	3291	1/1	0.89	0.23	31,31,31,31	0
57	MG	BA	3406	1/1	0.89	0.15	50,50,50,50	0
57	MG	CA	1660	1/1	0.89	0.41	22,22,22,22	0
57	MG	CA	1663	1/1	0.89	0.19	33,33,33,33	0
57	MG	CA	1665	1/1	0.89	0.25	30,30,30,30	0
57	MG	BA	3198	1/1	0.89	0.16	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	AA	1675	1/1	0.89	0.18	50,50,50,50	0
57	MG	BB	209	1/1	0.89	0.12	37,37,37,37	0
57	MG	AA	1703	1/1	0.89	0.15	51,51,51,51	0
57	MG	BA	3417	1/1	0.89	0.24	62,62,62,62	0
57	MG	BA	3368	1/1	0.89	0.42	49,49,49,49	0
57	MG	BA	3421	1/1	0.89	0.16	32,32,32,32	0
57	MG	DA	3215	1/1	0.89	0.35	37,37,37,37	0
57	MG	B0	102	1/1	0.89	0.23	33,33,33,33	0
57	MG	BA	3248	1/1	0.89	0.31	34,34,34,34	0
57	MG	DA	3222	1/1	0.89	0.31	26,26,26,26	0
57	MG	BA	3281	1/1	0.90	0.25	29,29,29,29	0
57	MG	CA	1623	1/1	0.90	0.33	59,59,59,59	0
57	MG	DA	3194	1/1	0.90	0.21	61,61,61,61	0
57	MG	CA	1626	1/1	0.90	0.54	67,67,67,67	0
57	MG	AL	201	1/1	0.90	0.38	29,29,29,29	0
57	MG	BA	3233	1/1	0.90	0.69	53,53,53,53	0
57	MG	DA	3201	1/1	0.90	0.45	32,32,32,32	0
57	MG	BA	3370	1/1	0.90	0.10	48,48,48,48	0
57	MG	CA	1634	1/1	0.90	0.10	37,37,37,37	0
57	MG	BA	3291	1/1	0.90	0.34	24,24,24,24	0
57	MG	DA	3050	1/1	0.90	0.40	46,46,46,46	0
57	MG	DA	3061	1/1	0.90	0.25	22,22,22,22	0
57	MG	DA	3065	1/1	0.90	0.35	29,29,29,29	0
57	MG	BA	3157	1/1	0.90	0.15	38,38,38,38	0
57	MG	BA	3438	1/1	0.90	0.22	67,67,67,67	0
57	MG	BA	3294	1/1	0.90	0.33	29,29,29,29	0
57	MG	BA	3196	1/1	0.90	0.16	27,27,27,27	0
57	MG	BA	3123	1/1	0.90	0.25	43,43,43,43	0
57	MG	BA	3166	1/1	0.90	0.56	38,38,38,38	0
57	MG	BA	3028	1/1	0.90	0.22	29,29,29,29	0
57	MG	BA	3382	1/1	0.90	0.23	26,26,26,26	0
57	MG	DA	3098	1/1	0.90	0.40	32,32,32,32	0
57	MG	DA	3238	1/1	0.90	0.23	33,33,33,33	0
57	MG	DA	3101	1/1	0.90	0.23	35,35,35,35	0
57	MG	CA	1658	1/1	0.90	0.17	21,21,21,21	0
57	MG	BA	3315	1/1	0.90	0.16	17,17,17,17	0
57	MG	DA	3110	1/1	0.90	0.33	38,38,38,38	0
57	MG	CA	1661	1/1	0.90	0.26	26,26,26,26	0
57	MG	DA	3112	1/1	0.90	0.27	27,27,27,27	0
57	MG	BA	3450	1/1	0.90	0.41	44,44,44,44	0
57	MG	DA	3119	1/1	0.90	0.24	42,42,42,42	0
57	MG	BA	3205	1/1	0.90	0.10	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3318	1/1	0.90	0.39	41,41,41,41	0
57	MG	BA	3387	1/1	0.90	0.26	46,46,46,46	0
57	MG	AA	1701	1/1	0.90	0.32	33,33,33,33	0
57	MG	DA	3272	1/1	0.90	0.21	40,40,40,40	0
57	MG	BB	207	1/1	0.90	0.17	44,44,44,44	0
57	MG	DA	3131	1/1	0.90	0.31	39,39,39,39	0
57	MG	AA	1713	1/1	0.90	0.14	43,43,43,43	0
57	MG	BF	301	1/1	0.90	0.26	62,62,62,62	0
57	MG	DA	3137	1/1	0.90	0.20	30,30,30,30	0
57	MG	BA	3329	1/1	0.90	0.07	26,26,26,26	0
57	MG	AA	1715	1/1	0.90	0.14	62,62,62,62	0
57	MG	DA	3281	1/1	0.90	0.10	49,49,49,49	0
57	MG	CA	1700	1/1	0.90	0.30	56,56,56,56	0
57	MG	CA	1707	1/1	0.90	0.62	62,62,62,62	0
57	MG	BR	201	1/1	0.90	0.43	35,35,35,35	0
57	MG	BA	3217	1/1	0.90	0.23	34,34,34,34	0
57	MG	BA	3097	1/1	0.90	0.40	34,34,34,34	0
57	MG	DA	3290	1/1	0.90	0.55	50,50,50,50	0
57	MG	AA	1717	1/1	0.90	0.27	25,25,25,25	0
57	MG	DA	3293	1/1	0.90	0.23	39,39,39,39	0
57	MG	DA	3155	1/1	0.90	0.06	60,60,60,60	0
57	MG	CW	104	1/1	0.90	0.39	52,52,52,52	0
57	MG	DA	3299	1/1	0.90	0.15	42,42,42,42	0
57	MG	B5	103	1/1	0.90	0.18	20,20,20,20	0
57	MG	BA	3347	1/1	0.90	0.15	28,28,28,28	0
57	MG	BA	3141	1/1	0.90	0.30	45,45,45,45	0
57	MG	BA	3074	1/1	0.90	0.38	31,31,31,31	0
57	MG	BA	3077	1/1	0.90	0.82	63,63,63,63	0
57	MG	BA	3422	1/1	0.90	0.45	20,20,20,20	0
57	MG	BA	3358	1/1	0.90	0.15	38,38,38,38	0
57	MG	CA	1612	1/1	0.90	0.36	55,55,55,55	0
57	MG	DA	3178	1/1	0.90	0.09	30,30,30,30	0
57	MG	DA	3182	1/1	0.90	0.15	37,37,37,37	0
57	MG	CA	1613	1/1	0.90	0.43	42,42,42,42	0
57	MG	BA	3359	1/1	0.90	0.28	44,44,44,44	0
57	MG	DA	3187	1/1	0.90	0.33	48,48,48,48	0
57	MG	BA	3265	1/1	0.91	0.12	67,67,67,67	0
57	MG	DA	3207	1/1	0.91	0.12	26,26,26,26	0
57	MG	BA	3357	1/1	0.91	0.19	38,38,38,38	0
57	MG	CA	1689	1/1	0.91	0.18	39,39,39,39	0
57	MG	DA	3109	1/1	0.91	0.12	33,33,33,33	0
57	MG	DA	3214	1/1	0.91	0.34	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	CA	1694	1/1	0.91	0.74	51,51,51,51	0
57	MG	DA	3217	1/1	0.91	0.57	54,54,54,54	0
57	MG	BA	3017	1/1	0.91	0.27	20,20,20,20	0
57	MG	CA	1698	1/1	0.91	0.18	33,33,33,33	0
57	MG	BA	3021	1/1	0.91	1.61	180,180,180,180	0
57	MG	CA	1703	1/1	0.91	0.41	34,34,34,34	0
57	MG	AA	1626	1/1	0.91	0.24	35,35,35,35	0
57	MG	CA	1609	1/1	0.91	0.29	27,27,27,27	0
57	MG	DA	3231	1/1	0.91	0.38	45,45,45,45	0
57	MG	BA	3025	1/1	0.91	0.35	31,31,31,31	0
57	MG	AA	1669	1/1	0.91	0.21	70,70,70,70	0
57	MG	BA	3167	1/1	0.91	0.32	65,65,65,65	0
57	MG	DA	3241	1/1	0.91	0.10	26,26,26,26	0
57	MG	AA	1650	1/1	0.91	0.16	28,28,28,28	0
57	MG	BA	3437	1/1	0.91	0.10	27,27,27,27	0
57	MG	DA	3133	1/1	0.91	0.16	31,31,31,31	0
57	MG	DA	3249	1/1	0.91	0.14	33,33,33,33	0
57	MG	DA	3135	1/1	0.91	0.26	42,42,42,42	0
57	MG	CA	1625	1/1	0.91	0.33	31,31,31,31	0
57	MG	DA	3003	1/1	0.91	0.18	30,30,30,30	0
57	MG	BA	3036	1/1	0.91	0.20	30,30,30,30	0
57	MG	AA	1653	1/1	0.91	0.24	28,28,28,28	0
57	MG	BA	3376	1/1	0.91	0.16	33,33,33,33	0
57	MG	BA	3051	1/1	0.91	0.44	51,51,51,51	0
57	MG	DA	3268	1/1	0.91	0.19	43,43,43,43	0
57	MG	BA	3002	1/1	0.91	0.18	39,39,39,39	0
57	MG	DA	3024	1/1	0.91	0.13	33,33,33,33	0
57	MG	BA	3053	1/1	0.91	0.47	63,63,63,63	0
57	MG	BA	3313	1/1	0.91	0.37	26,26,26,26	0
57	MG	BA	3184	1/1	0.91	0.25	53,53,53,53	0
57	MG	DA	3157	1/1	0.91	0.25	30,30,30,30	0
57	MG	DA	3030	1/1	0.91	0.14	46,46,46,46	0
57	MG	DA	3160	1/1	0.91	0.30	38,38,38,38	0
57	MG	BA	3060	1/1	0.91	0.38	47,47,47,47	0
57	MG	BA	3242	1/1	0.91	0.26	24,24,24,24	0
57	MG	DA	3037	1/1	0.91	0.42	45,45,45,45	0
57	MG	CA	1645	1/1	0.91	0.28	41,41,41,41	0
57	MG	DA	3167	1/1	0.91	0.44	38,38,38,38	0
57	MG	DA	3040	1/1	0.91	0.35	26,26,26,26	0
57	MG	DA	3171	1/1	0.91	0.47	27,27,27,27	0
57	MG	DA	3172	1/1	0.91	0.15	30,30,30,30	0
57	MG	DA	3174	1/1	0.91	0.55	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3126	1/1	0.91	0.30	66,66,66,66	0
57	MG	CA	1647	1/1	0.91	0.28	61,61,61,61	0
57	MG	BA	3322	1/1	0.91	0.34	29,29,29,29	0
57	MG	CA	1651	1/1	0.91	0.18	28,28,28,28	0
57	MG	BA	3127	1/1	0.91	0.24	30,30,30,30	0
57	MG	BA	3328	1/1	0.91	0.24	32,32,32,32	0
57	MG	DA	3301	1/1	0.91	0.11	33,33,33,33	0
57	MG	CA	1657	1/1	0.91	0.12	37,37,37,37	0
57	MG	DA	3303	1/1	0.91	0.23	54,54,54,54	0
57	MG	DA	3304	1/1	0.91	0.12	35,35,35,35	0
57	MG	AA	1678	1/1	0.91	0.10	33,33,33,33	0
57	MG	BA	3331	1/1	0.91	0.27	28,28,28,28	0
57	MG	BA	3064	1/1	0.91	0.40	44,44,44,44	0
57	MG	AA	1691	1/1	0.91	0.14	39,39,39,39	0
57	MG	BA	3197	1/1	0.91	0.34	20,20,20,20	0
57	MG	AA	1607	1/1	0.91	0.25	51,51,51,51	0
57	MG	DA	3199	1/1	0.91	0.23	67,67,67,67	0
57	MG	BA	3414	1/1	0.91	0.36	36,36,36,36	0
57	MG	DP	201	1/1	0.91	0.15	38,38,38,38	0
57	MG	BA	3016	1/1	0.91	0.48	20,20,20,20	0
57	MG	BA	3088	1/1	0.91	0.28	24,24,24,24	0
57	MG	BA	3148	1/1	0.91	0.23	64,64,64,64	0
57	MG	BA	3057	1/1	0.92	0.41	39,39,39,39	0
57	MG	BA	3235	1/1	0.92	0.26	51,51,51,51	0
57	MG	DA	3196	1/1	0.92	0.31	26,26,26,26	0
57	MG	AA	1716	1/1	0.92	0.11	31,31,31,31	0
57	MG	AA	1649	1/1	0.92	0.29	50,50,50,50	0
57	MG	BA	3326	1/1	0.92	0.17	21,21,21,21	0
57	MG	DA	3048	1/1	0.92	0.24	6,6,6,6	0
57	MG	AA	1625	1/1	0.92	0.20	37,37,37,37	0
57	MG	BA	3240	1/1	0.92	0.22	23,23,23,23	0
57	MG	DA	3059	1/1	0.92	0.24	26,26,26,26	0
57	MG	BA	3066	1/1	0.92	0.20	14,14,14,14	0
57	MG	BA	3426	1/1	0.92	0.11	26,26,26,26	0
57	MG	BA	3069	1/1	0.92	0.27	30,30,30,30	0
57	MG	BA	3187	1/1	0.92	0.41	45,45,45,45	0
57	MG	BA	3343	1/1	0.92	0.19	22,22,22,22	0
57	MG	BA	3071	1/1	0.92	0.34	25,25,25,25	0
57	MG	BA	3345	1/1	0.92	0.29	34,34,34,34	0
57	MG	DA	3080	1/1	0.92	0.28	24,24,24,24	0
57	MG	BA	3433	1/1	0.92	0.50	52,52,52,52	0
57	MG	DA	3087	1/1	0.92	0.39	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3024	1/1	0.92	0.34	20,20,20,20	0
57	MG	CA	1654	1/1	0.92	0.13	17,17,17,17	0
57	MG	BA	3252	1/1	0.92	0.14	25,25,25,25	0
57	MG	DA	3228	1/1	0.92	0.22	25,25,25,25	0
57	MG	DA	3099	1/1	0.92	0.43	23,23,23,23	0
57	MG	AW	101	1/1	0.92	0.19	6,6,6,6	0
57	MG	DA	3233	1/1	0.92	0.17	17,17,17,17	0
57	MG	DA	3234	1/1	0.92	0.30	33,33,33,33	0
57	MG	DA	3235	1/1	0.92	0.15	24,24,24,24	0
57	MG	BA	3439	1/1	0.92	0.17	32,32,32,32	0
57	MG	BA	3350	1/1	0.92	0.19	37,37,37,37	0
57	MG	DA	3239	1/1	0.92	0.23	32,32,32,32	0
57	MG	DA	3240	1/1	0.92	0.14	35,35,35,35	0
57	MG	BA	3352	1/1	0.92	0.27	22,22,22,22	0
57	MG	BA	3353	1/1	0.92	0.36	36,36,36,36	0
57	MG	CA	1664	1/1	0.92	0.28	42,42,42,42	0
57	MG	BA	3193	1/1	0.92	0.12	47,47,47,47	0
57	MG	AA	1616	1/1	0.92	0.27	30,30,30,30	0
57	MG	DA	3250	1/1	0.92	0.38	26,26,26,26	0
57	MG	BA	3087	1/1	0.92	0.35	23,23,23,23	0
57	MG	BA	3140	1/1	0.92	0.13	33,33,33,33	0
57	MG	AA	1688	1/1	0.92	0.16	56,56,56,56	0
57	MG	BA	3453	1/1	0.92	0.20	41,41,41,41	0
57	MG	DA	3259	1/1	0.92	0.20	47,47,47,47	0
57	MG	CA	1685	1/1	0.92	0.13	33,33,33,33	0
57	MG	BA	3009	1/1	0.92	0.20	16,16,16,16	0
57	MG	BA	3037	1/1	0.92	0.23	9,9,9,9	0
57	MG	BA	3269	1/1	0.92	0.25	27,27,27,27	0
57	MG	CA	1690	1/1	0.92	0.25	44,44,44,44	0
57	MG	CA	1692	1/1	0.92	0.17	48,48,48,48	0
57	MG	BA	3369	1/1	0.92	0.13	63,63,63,63	0
57	MG	AA	1660	1/1	0.92	0.23	31,31,31,31	0
57	MG	DA	3139	1/1	0.92	0.17	58,58,58,58	0
57	MG	BA	3277	1/1	0.92	0.24	29,29,29,29	0
57	MG	BA	3280	1/1	0.92	0.17	19,19,19,19	0
57	MG	CA	1702	1/1	0.92	0.32	29,29,29,29	0
57	MG	BA	3152	1/1	0.92	0.22	23,23,23,23	0
57	MG	CA	1706	1/1	0.92	0.23	59,59,59,59	0
57	MG	BA	3044	1/1	0.92	0.30	22,22,22,22	0
57	MG	BA	3288	1/1	0.92	0.19	18,18,18,18	0
57	MG	DA	3153	1/1	0.92	0.15	41,41,41,41	0
57	MG	BA	3289	1/1	0.92	0.31	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	CW	101	1/1	0.92	0.24	22,22,22,22	0
57	MG	BA	3155	1/1	0.92	0.55	37,37,37,37	0
57	MG	AA	1673	1/1	0.92	0.12	40,40,40,40	0
57	MG	B5	102	1/1	0.92	0.38	40,40,40,40	0
57	MG	BA	3215	1/1	0.92	0.20	35,35,35,35	0
57	MG	BA	3158	1/1	0.92	0.28	37,37,37,37	0
57	MG	BA	3162	1/1	0.92	0.10	21,21,21,21	0
57	MG	BA	3297	1/1	0.92	0.23	21,21,21,21	0
57	MG	AA	1684	1/1	0.92	0.13	31,31,31,31	0
57	MG	BA	3107	1/1	0.92	0.13	40,40,40,40	0
57	MG	BA	3306	1/1	0.92	0.33	47,47,47,47	0
57	MG	BA	3394	1/1	0.92	0.12	28,28,28,28	0
57	MG	DA	3023	1/1	0.92	0.23	42,42,42,42	0
57	MG	BA	3395	1/1	0.92	0.46	39,39,39,39	0
57	MG	BA	3310	1/1	0.92	0.19	30,30,30,30	0
57	MG	CA	1615	1/1	0.92	0.37	63,63,63,63	0
57	MG	CA	1616	1/1	0.92	0.16	20,20,20,20	0
57	MG	DA	3180	1/1	0.92	0.30	49,49,49,49	0
57	MG	AA	1702	1/1	0.92	0.11	26,26,26,26	0
57	MG	CA	1619	1/1	0.92	0.15	34,34,34,34	0
57	MG	DA	3032	1/1	0.92	0.23	20,20,20,20	0
57	MG	BA	3113	1/1	0.92	0.37	32,32,32,32	0
57	MG	DA	3189	1/1	0.92	0.20	34,34,34,34	0
57	MG	BA	3231	1/1	0.92	0.38	54,54,54,54	0
57	MG	BA	3170	1/1	0.92	0.18	40,40,40,40	0
57	MG	AW	102	1/1	0.93	0.09	26,26,26,26	0
57	MG	AA	1648	1/1	0.93	0.14	40,40,40,40	0
57	MG	CA	1621	1/1	0.93	0.18	22,22,22,22	0
57	MG	CA	1622	1/1	0.93	0.31	24,24,24,24	0
57	MG	CA	1704	1/1	0.93	0.17	26,26,26,26	0
57	MG	DA	3116	1/1	0.93	0.35	33,33,33,33	0
57	MG	AA	1710	1/1	0.93	0.11	30,30,30,30	0
57	MG	CA	1624	1/1	0.93	0.60	39,39,39,39	0
57	MG	DA	3225	1/1	0.93	0.31	44,44,44,44	0
57	MG	BA	3181	1/1	0.93	0.56	19,19,19,19	0
57	MG	BA	3227	1/1	0.93	0.29	21,21,21,21	0
57	MG	BA	3182	1/1	0.93	0.45	27,27,27,27	0
57	MG	BA	3027	1/1	0.93	0.19	26,26,26,26	0
57	MG	BA	3447	1/1	0.93	0.42	27,27,27,27	0
57	MG	DA	3130	1/1	0.93	0.37	34,34,34,34	0
57	MG	BA	3336	1/1	0.93	0.16	29,29,29,29	0
57	MG	BA	3339	1/1	0.93	0.29	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	CX	101	1/1	0.93	0.20	22,22,22,22	0
57	MG	CA	1637	1/1	0.93	0.15	26,26,26,26	0
57	MG	BA	3105	1/1	0.93	0.16	15,15,15,15	0
57	MG	CA	1639	1/1	0.93	0.11	22,22,22,22	0
57	MG	BA	3149	1/1	0.93	0.28	27,27,27,27	0
57	MG	DA	3244	1/1	0.93	0.31	26,26,26,26	0
57	MG	DA	3140	1/1	0.93	0.24	36,36,36,36	0
57	MG	DA	3141	1/1	0.93	0.19	25,25,25,25	0
57	MG	CA	1642	1/1	0.93	0.13	37,37,37,37	0
57	MG	DA	3017	1/1	0.93	0.39	21,21,21,21	0
57	MG	BA	3005	1/1	0.93	0.20	23,23,23,23	0
57	MG	DA	3147	1/1	0.93	0.50	18,18,18,18	0
57	MG	DA	3252	1/1	0.93	0.52	27,27,27,27	0
57	MG	BA	3393	1/1	0.93	0.09	61,61,61,61	0
57	MG	BA	3006	1/1	0.93	0.24	27,27,27,27	0
57	MG	BA	3030	1/1	0.93	0.42	37,37,37,37	0
57	MG	AA	1638	1/1	0.93	0.15	55,55,55,55	0
57	MG	CA	1648	1/1	0.93	0.10	28,28,28,28	0
57	MG	DA	3262	1/1	0.93	0.27	29,29,29,29	0
57	MG	BA	3156	1/1	0.93	0.09	26,26,26,26	0
57	MG	BA	3404	1/1	0.93	0.06	53,53,53,53	0
57	MG	BA	3241	1/1	0.93	0.18	50,50,50,50	0
57	MG	BA	3117	1/1	0.93	0.60	42,42,42,42	0
57	MG	BA	3075	1/1	0.93	0.21	24,24,24,24	0
57	MG	DA	3271	1/1	0.93	0.20	42,42,42,42	0
57	MG	BT	201	1/1	0.93	0.21	32,32,32,32	0
57	MG	AA	1629	1/1	0.93	0.15	56,56,56,56	0
57	MG	BX	101	1/1	0.93	0.14	36,36,36,36	0
57	MG	BA	3079	1/1	0.93	0.34	25,25,25,25	0
57	MG	CA	1662	1/1	0.93	0.43	26,26,26,26	0
57	MG	BA	3356	1/1	0.93	0.17	21,21,21,21	0
57	MG	BA	3305	1/1	0.93	0.34	41,41,41,41	0
57	MG	DA	3046	1/1	0.93	0.40	26,26,26,26	0
57	MG	BA	3081	1/1	0.93	0.48	16,16,16,16	0
57	MG	B5	104	1/1	0.93	0.23	33,33,33,33	0
57	MG	CA	1671	1/1	0.93	0.10	54,54,54,54	0
57	MG	DA	3053	1/1	0.93	0.36	21,21,21,21	0
57	MG	BA	3308	1/1	0.93	0.31	22,22,22,22	0
57	MG	CA	1675	1/1	0.93	0.47	33,33,33,33	0
57	MG	DA	3062	1/1	0.93	0.17	33,33,33,33	0
57	MG	DA	3183	1/1	0.93	0.23	54,54,54,54	0
57	MG	DA	3292	1/1	0.93	0.13	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	AA	1651	1/1	0.93	0.11	49,49,49,49	0
57	MG	BA	3362	1/1	0.93	0.32	30,30,30,30	0
57	MG	BA	3363	1/1	0.93	0.21	23,23,23,23	0
57	MG	CA	1684	1/1	0.93	0.21	42,42,42,42	0
57	MG	BA	3365	1/1	0.93	0.34	23,23,23,23	0
57	MG	AA	1644	1/1	0.93	0.27	40,40,40,40	0
57	MG	AA	1635	1/1	0.93	0.42	31,31,31,31	0
57	MG	AA	1631	1/1	0.93	0.16	29,29,29,29	0
57	MG	DA	3085	1/1	0.93	0.46	49,49,49,49	0
57	MG	DA	3305	1/1	0.93	0.38	35,35,35,35	0
57	MG	BA	3174	1/1	0.93	0.18	53,53,53,53	0
57	MG	CA	1691	1/1	0.93	0.59	67,67,67,67	0
57	MG	DA	3090	1/1	0.93	0.23	31,31,31,31	0
57	MG	AA	1615	1/1	0.93	0.17	46,46,46,46	0
57	MG	DB	205	1/1	0.93	0.33	42,42,42,42	0
57	MG	DA	3096	1/1	0.93	0.20	34,34,34,34	0
57	MG	CA	1693	1/1	0.93	0.21	36,36,36,36	0
57	MG	BA	3319	1/1	0.93	0.07	28,28,28,28	0
57	MG	DA	3206	1/1	0.93	0.17	49,49,49,49	0
57	MG	BA	3263	1/1	0.93	0.09	36,36,36,36	0
57	MG	DA	3104	1/1	0.93	0.23	21,21,21,21	0
57	MG	DA	3209	1/1	0.93	0.26	33,33,33,33	0
57	MG	CA	1696	1/1	0.93	0.30	54,54,54,54	0
58	ZN	D5	103	1/1	0.93	0.16	30,30,30,30	0
57	MG	CA	1659	1/1	0.94	0.36	32,32,32,32	0
57	MG	BA	3131	1/1	0.94	0.33	26,26,26,26	0
57	MG	BA	3309	1/1	0.94	0.07	20,20,20,20	0
57	MG	BA	3132	1/1	0.94	0.28	28,28,28,28	0
57	MG	BB	201	1/1	0.94	0.30	59,59,59,59	0
57	MG	BA	3082	1/1	0.94	0.32	24,24,24,24	0
57	MG	BB	205	1/1	0.94	0.25	19,19,19,19	0
57	MG	DA	3075	1/1	0.94	0.32	27,27,27,27	0
57	MG	DA	3078	1/1	0.94	0.31	44,44,44,44	0
57	MG	CA	1668	1/1	0.94	0.22	27,27,27,27	0
57	MG	DA	3210	1/1	0.94	0.24	41,41,41,41	0
57	MG	BA	3042	1/1	0.94	0.31	10,10,10,10	0
57	MG	BB	208	1/1	0.94	0.33	36,36,36,36	0
57	MG	DA	3086	1/1	0.94	0.34	25,25,25,25	0
57	MG	BA	3137	1/1	0.94	0.41	46,46,46,46	0
57	MG	DA	3216	1/1	0.94	0.41	23,23,23,23	0
57	MG	BA	3183	1/1	0.94	0.12	22,22,22,22	0
57	MG	CA	1677	1/1	0.94	0.36	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BH	201	1/1	0.94	0.19	21,21,21,21	0
57	MG	DA	3221	1/1	0.94	0.36	38,38,38,38	0
57	MG	AA	1680	1/1	0.94	0.33	49,49,49,49	0
57	MG	BA	3046	1/1	0.94	0.31	32,32,32,32	0
57	MG	BA	3386	1/1	0.94	0.29	68,68,68,68	0
57	MG	BA	3050	1/1	0.94	0.30	24,24,24,24	0
57	MG	BA	3189	1/1	0.94	0.09	14,14,14,14	0
57	MG	AA	1667	1/1	0.94	0.22	62,62,62,62	0
57	MG	BA	3391	1/1	0.94	0.22	44,44,44,44	0
57	MG	BA	3146	1/1	0.94	0.26	22,22,22,22	0
57	MG	B1	101	1/1	0.94	0.41	63,63,63,63	0
57	MG	BA	3192	1/1	0.94	0.26	27,27,27,27	0
57	MG	AA	1608	1/1	0.94	0.17	65,65,65,65	0
57	MG	DA	3236	1/1	0.94	0.10	30,30,30,30	0
57	MG	DA	3114	1/1	0.94	0.30	30,30,30,30	0
57	MG	DA	3115	1/1	0.94	0.08	36,36,36,36	0
57	MG	BA	3397	1/1	0.94	0.23	44,44,44,44	0
57	MG	B7	101	1/1	0.94	0.14	12,12,12,12	0
57	MG	DA	3118	1/1	0.94	0.18	33,33,33,33	0
57	MG	AT	201	1/1	0.94	0.23	22,22,22,22	0
57	MG	BA	3401	1/1	0.94	0.13	46,46,46,46	0
57	MG	BA	3402	1/1	0.94	0.13	24,24,24,24	0
57	MG	DA	3247	1/1	0.94	0.14	23,23,23,23	0
57	MG	CA	1701	1/1	0.94	0.23	25,25,25,25	0
57	MG	DA	3124	1/1	0.94	0.17	26,26,26,26	0
57	MG	BA	3256	1/1	0.94	0.19	25,25,25,25	0
57	MG	DA	3126	1/1	0.94	0.20	6,6,6,6	0
57	MG	BA	3333	1/1	0.94	0.59	77,77,77,77	0
57	MG	CA	1607	1/1	0.94	0.12	37,37,37,37	0
57	MG	BA	3405	1/1	0.94	0.09	25,25,25,25	0
57	MG	BA	3150	1/1	0.94	0.46	29,29,29,29	0
57	MG	BA	3054	1/1	0.94	0.46	33,33,33,33	0
57	MG	DA	3260	1/1	0.94	0.13	31,31,31,31	0
57	MG	BA	3260	1/1	0.94	0.22	24,24,24,24	0
57	MG	BA	3410	1/1	0.94	0.14	30,30,30,30	0
57	MG	DA	3264	1/1	0.94	0.11	25,25,25,25	0
57	MG	DA	3265	1/1	0.94	0.40	54,54,54,54	0
57	MG	BA	3411	1/1	0.94	0.38	53,53,53,53	0
57	MG	DA	3138	1/1	0.94	0.25	17,17,17,17	0
57	MG	BA	3261	1/1	0.94	0.40	28,28,28,28	0
57	MG	AA	1672	1/1	0.94	0.20	33,33,33,33	0
57	MG	BA	3058	1/1	0.94	0.47	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	AA	1612	1/1	0.94	0.39	25,25,25,25	0
57	MG	BA	3419	1/1	0.94	0.40	44,44,44,44	0
57	MG	BA	3200	1/1	0.94	0.33	20,20,20,20	0
57	MG	DA	3004	1/1	0.94	0.17	21,21,21,21	0
57	MG	DA	3275	1/1	0.94	0.25	48,48,48,48	0
57	MG	DA	3008	1/1	0.94	0.27	6,6,6,6	0
57	MG	BA	3348	1/1	0.94	0.35	55,55,55,55	0
57	MG	BA	3201	1/1	0.94	0.12	24,24,24,24	0
57	MG	BA	3061	1/1	0.94	0.39	25,25,25,25	0
57	MG	AA	1656	1/1	0.94	0.12	28,28,28,28	0
57	MG	BA	3271	1/1	0.94	0.22	40,40,40,40	0
57	MG	CA	1631	1/1	0.94	0.29	34,34,34,34	0
57	MG	DA	3022	1/1	0.94	0.20	21,21,21,21	0
57	MG	BA	3026	1/1	0.94	0.25	31,31,31,31	0
57	MG	CA	1633	1/1	0.94	0.44	45,45,45,45	0
57	MG	BA	3209	1/1	0.94	0.25	23,23,23,23	0
57	MG	DA	3162	1/1	0.94	0.20	24,24,24,24	0
57	MG	BA	3161	1/1	0.94	0.21	25,25,25,25	0
57	MG	AA	1662	1/1	0.94	0.14	22,22,22,22	0
57	MG	DA	3029	1/1	0.94	0.14	22,22,22,22	0
57	MG	DA	3296	1/1	0.94	0.35	40,40,40,40	0
57	MG	AA	1640	1/1	0.94	0.24	19,19,19,19	0
57	MG	BA	3121	1/1	0.94	0.19	20,20,20,20	0
57	MG	BA	3436	1/1	0.94	0.28	48,48,48,48	0
57	MG	AA	1690	1/1	0.94	0.09	26,26,26,26	0
57	MG	DA	3034	1/1	0.94	0.24	57,57,57,57	0
57	MG	BA	3220	1/1	0.94	0.23	30,30,30,30	0
57	MG	BA	3008	1/1	0.94	0.41	16,16,16,16	0
57	MG	BA	3032	1/1	0.94	0.25	6,6,6,6	0
57	MG	BA	3225	1/1	0.94	0.16	16,16,16,16	0
57	MG	AA	1712	1/1	0.94	0.19	56,56,56,56	0
57	MG	BA	3298	1/1	0.94	0.15	20,20,20,20	0
57	MG	BA	3172	1/1	0.94	0.52	22,22,22,22	0
57	MG	BA	3371	1/1	0.94	0.15	48,48,48,48	0
57	MG	BA	3173	1/1	0.94	0.13	40,40,40,40	0
57	MG	CA	1653	1/1	0.94	0.19	36,36,36,36	0
57	MG	AA	1658	1/1	0.94	0.15	23,23,23,23	0
57	MG	DA	3052	1/1	0.94	0.27	21,21,21,21	0
57	MG	DD	301	1/1	0.94	0.19	18,18,18,18	0
57	MG	DA	3191	1/1	0.94	0.21	18,18,18,18	0
57	MG	AA	1697	1/1	0.94	0.16	27,27,27,27	0
57	MG	DA	3055	1/1	0.94	0.26	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	D5	102	1/1	0.94	0.44	44,44,44,44	0
57	MG	BA	3451	1/1	0.94	0.20	23,23,23,23	0
57	MG	DA	3060	1/1	0.94	0.28	27,27,27,27	0
57	MG	BA	3375	1/1	0.94	0.41	36,36,36,36	0
57	MG	BA	3330	1/1	0.95	0.17	21,21,21,21	0
57	MG	AA	1671	1/1	0.95	0.23	42,42,42,42	0
57	MG	AA	1698	1/1	0.95	0.35	37,37,37,37	0
57	MG	BA	3145	1/1	0.95	0.35	29,29,29,29	0
57	MG	BA	3334	1/1	0.95	0.18	24,24,24,24	0
57	MG	DA	3243	1/1	0.95	0.12	44,44,44,44	0
57	MG	BA	3011	1/1	0.95	0.22	6,6,6,6	0
57	MG	DA	3063	1/1	0.95	0.17	29,29,29,29	0
57	MG	BA	3338	1/1	0.95	0.09	18,18,18,18	0
57	MG	BA	3279	1/1	0.95	0.07	26,26,26,26	0
57	MG	CA	1697	1/1	0.95	0.08	39,39,39,39	0
57	MG	BA	3112	1/1	0.95	0.23	23,23,23,23	0
57	MG	DA	3071	1/1	0.95	0.31	20,20,20,20	0
57	MG	BA	3454	1/1	0.95	0.14	25,25,25,25	0
57	MG	AA	1700	1/1	0.95	0.19	44,44,44,44	0
57	MG	BA	3282	1/1	0.95	0.40	22,22,22,22	0
57	MG	DA	3077	1/1	0.95	0.39	22,22,22,22	0
57	MG	BA	3114	1/1	0.95	0.38	24,24,24,24	0
57	MG	BA	3286	1/1	0.95	0.36	24,24,24,24	0
57	MG	BA	3115	1/1	0.95	0.24	19,19,19,19	0
57	MG	AA	1683	1/1	0.95	0.31	31,31,31,31	0
57	MG	BB	206	1/1	0.95	0.32	31,31,31,31	0
57	MG	DA	3263	1/1	0.95	0.18	28,28,28,28	0
57	MG	CA	1709	1/1	0.95	0.33	28,28,28,28	0
57	MG	BA	3234	1/1	0.95	0.05	38,38,38,38	0
57	MG	BA	3080	1/1	0.95	0.29	32,32,32,32	0
57	MG	DA	3179	1/1	0.95	0.33	30,30,30,30	0
57	MG	DA	3093	1/1	0.95	0.26	19,19,19,19	0
57	MG	AA	1666	1/1	0.95	0.14	24,24,24,24	0
57	MG	DA	3095	1/1	0.95	0.30	62,62,62,62	0
57	MG	BA	3120	1/1	0.95	0.29	35,35,35,35	0
57	MG	BA	3295	1/1	0.95	0.26	20,20,20,20	0
57	MG	BA	3055	1/1	0.95	0.26	24,24,24,24	0
57	MG	DA	3188	1/1	0.95	0.11	27,27,27,27	0
57	MG	BP	203	1/1	0.95	0.21	27,27,27,27	0
57	MG	DA	3102	1/1	0.95	0.41	32,32,32,32	0
57	MG	DA	3103	1/1	0.95	0.53	19,19,19,19	0
57	MG	BQ	201	1/1	0.95	0.20	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	DA	3105	1/1	0.95	0.37	30,30,30,30	0
57	MG	DA	3106	1/1	0.95	0.50	25,25,25,25	0
57	MG	BQ	202	1/1	0.95	0.27	30,30,30,30	0
57	MG	BA	3083	1/1	0.95	0.14	22,22,22,22	0
57	MG	BA	3084	1/1	0.95	0.69	61,61,61,61	0
57	MG	DA	3285	1/1	0.95	0.23	38,38,38,38	0
57	MG	AA	1624	1/1	0.95	0.33	33,33,33,33	0
57	MG	DA	3013	1/1	0.95	0.33	20,20,20,20	0
57	MG	BA	3033	1/1	0.95	0.22	34,34,34,34	0
57	MG	BA	3415	1/1	0.95	0.22	36,36,36,36	0
57	MG	CA	1656	1/1	0.95	0.43	43,43,43,43	0
57	MG	BA	3165	1/1	0.95	0.19	25,25,25,25	0
57	MG	AA	1714	1/1	0.95	0.26	42,42,42,42	0
57	MG	DA	3295	1/1	0.95	0.25	40,40,40,40	0
57	MG	AA	1614	1/1	0.95	0.38	29,29,29,29	0
57	MG	B5	101	1/1	0.95	0.40	78,78,78,78	0
57	MG	AA	1693	1/1	0.95	0.11	45,45,45,45	0
57	MG	BA	3063	1/1	0.95	0.24	17,17,17,17	0
57	MG	DA	3212	1/1	0.95	0.20	18,18,18,18	0
57	MG	BA	3367	1/1	0.95	0.39	33,33,33,33	0
57	MG	BA	3206	1/1	0.95	0.25	22,22,22,22	0
57	MG	BA	3041	1/1	0.95	0.47	44,44,44,44	0
57	MG	BA	3135	1/1	0.95	0.16	23,23,23,23	0
57	MG	BA	3316	1/1	0.95	0.18	28,28,28,28	0
57	MG	BA	3210	1/1	0.95	0.30	24,24,24,24	0
57	MG	BA	3259	1/1	0.95	0.19	37,37,37,37	0
57	MG	CA	1674	1/1	0.95	0.27	41,41,41,41	0
57	MG	BA	3023	1/1	0.95	0.42	45,45,45,45	0
57	MG	CA	1676	1/1	0.95	0.20	48,48,48,48	0
57	MG	DA	3224	1/1	0.95	0.41	14,14,14,14	0
57	MG	BA	3007	1/1	0.95	0.38	19,19,19,19	0
57	MG	BA	3321	1/1	0.95	0.37	22,22,22,22	0
57	MG	CA	1679	1/1	0.95	0.12	29,29,29,29	0
57	MG	BA	3377	1/1	0.95	0.11	23,23,23,23	0
57	MG	BA	3138	1/1	0.95	0.13	39,39,39,39	0
57	MG	CA	1683	1/1	0.95	0.15	36,36,36,36	0
57	MG	BA	3103	1/1	0.95	0.32	21,21,21,21	0
57	MG	BA	3104	1/1	0.95	0.17	37,37,37,37	0
57	MG	BA	3179	1/1	0.95	0.48	23,23,23,23	0
57	MG	BA	3221	1/1	0.95	0.21	22,22,22,22	0
57	MG	DA	3019	1/1	0.96	0.46	35,35,35,35	0
57	MG	BA	3147	1/1	0.96	0.32	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	AA	1641	1/1	0.96	0.17	30,30,30,30	0
57	MG	BA	3185	1/1	0.96	0.24	17,17,17,17	0
57	MG	BA	3228	1/1	0.96	0.37	36,36,36,36	0
57	MG	DA	3120	1/1	0.96	0.23	25,25,25,25	0
57	MG	BA	3186	1/1	0.96	0.54	24,24,24,24	0
57	MG	BA	3012	1/1	0.96	0.38	22,22,22,22	0
57	MG	AA	1682	1/1	0.96	0.21	18,18,18,18	0
57	MG	DA	3027	1/1	0.96	0.13	33,33,33,33	0
57	MG	DA	3229	1/1	0.96	0.17	19,19,19,19	0
57	MG	DA	3230	1/1	0.96	0.31	23,23,23,23	0
57	MG	AA	1628	1/1	0.96	0.45	43,43,43,43	0
57	MG	AA	1692	1/1	0.96	0.23	51,51,51,51	0
57	MG	DA	3128	1/1	0.96	0.26	24,24,24,24	0
57	MG	BA	3416	1/1	0.96	0.13	42,42,42,42	0
57	MG	BA	3059	1/1	0.96	0.34	28,28,28,28	0
57	MG	BA	3085	1/1	0.96	0.18	17,17,17,17	0
57	MG	CA	1669	1/1	0.96	0.18	21,21,21,21	0
57	MG	BA	3122	1/1	0.96	0.38	41,41,41,41	0
57	MG	DA	3134	1/1	0.96	0.16	24,24,24,24	0
57	MG	DA	3035	1/1	0.96	0.51	22,22,22,22	0
57	MG	BA	3034	1/1	0.96	0.21	19,19,19,19	0
57	MG	DA	3242	1/1	0.96	0.09	32,32,32,32	0
57	MG	AA	1643	1/1	0.96	0.15	23,23,23,23	0
57	MG	BA	3360	1/1	0.96	0.16	27,27,27,27	0
57	MG	BA	3159	1/1	0.96	0.47	29,29,29,29	0
57	MG	AA	1707	1/1	0.96	0.23	20,20,20,20	0
57	MG	BA	3020	1/1	0.96	0.35	19,19,19,19	0
57	MG	BA	3302	1/1	0.96	0.10	37,37,37,37	0
57	MG	CA	1606	1/1	0.96	0.38	50,50,50,50	0
57	MG	DA	3047	1/1	0.96	0.34	26,26,26,26	0
57	MG	BA	3304	1/1	0.96	0.10	49,49,49,49	0
57	MG	BA	3244	1/1	0.96	0.25	47,47,47,47	0
57	MG	BA	3246	1/1	0.96	0.10	11,11,11,11	0
57	MG	CA	1611	1/1	0.96	0.10	25,25,25,25	0
57	MG	BA	3247	1/1	0.96	0.06	33,33,33,33	0
57	MG	DA	3258	1/1	0.96	0.21	64,64,64,64	0
57	MG	DA	3054	1/1	0.96	0.58	27,27,27,27	0
57	MG	AA	1694	1/1	0.96	0.18	23,23,23,23	0
57	MG	DA	3057	1/1	0.96	0.23	22,22,22,22	0
57	MG	DA	3156	1/1	0.96	0.83	58,58,58,58	0
57	MG	AA	1695	1/1	0.96	0.20	26,26,26,26	0
57	MG	CA	1688	1/1	0.96	0.12	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3130	1/1	0.96	0.39	35,35,35,35	0
57	MG	BA	3312	1/1	0.96	0.31	22,22,22,22	0
57	MG	BA	3203	1/1	0.96	0.35	29,29,29,29	0
57	MG	DA	3064	1/1	0.96	0.26	19,19,19,19	0
57	MG	BA	3314	1/1	0.96	0.07	22,22,22,22	0
57	MG	BA	3067	1/1	0.96	0.18	30,30,30,30	0
57	MG	DA	3068	1/1	0.96	0.22	19,19,19,19	0
57	MG	DA	3168	1/1	0.96	0.24	35,35,35,35	0
57	MG	BA	3068	1/1	0.96	0.23	30,30,30,30	0
57	MG	BA	3255	1/1	0.96	0.44	31,31,31,31	0
57	MG	BA	3099	1/1	0.96	0.48	29,29,29,29	0
57	MG	DA	3173	1/1	0.96	0.19	33,33,33,33	0
57	MG	AA	1696	1/1	0.96	0.22	26,26,26,26	0
57	MG	BA	3208	1/1	0.96	0.05	56,56,56,56	0
57	MG	BA	3070	1/1	0.96	0.15	23,23,23,23	0
57	MG	DA	3076	1/1	0.96	0.13	19,19,19,19	0
57	MG	CA	1628	1/1	0.96	0.12	26,26,26,26	0
57	MG	AA	1620	1/1	0.96	0.18	27,27,27,27	0
57	MG	DA	3079	1/1	0.96	0.21	45,45,45,45	0
57	MG	DA	3284	1/1	0.96	0.13	51,51,51,51	0
57	MG	DA	3181	1/1	0.96	0.31	36,36,36,36	0
57	MG	AA	1634	1/1	0.96	0.40	41,41,41,41	0
57	MG	BA	3106	1/1	0.96	0.34	23,23,23,23	0
57	MG	DA	3084	1/1	0.96	0.12	21,21,21,21	0
57	MG	CA	1705	1/1	0.96	0.26	48,48,48,48	0
57	MG	DA	3186	1/1	0.96	0.08	29,29,29,29	0
57	MG	BA	3214	1/1	0.96	0.11	29,29,29,29	0
57	MG	AA	1652	1/1	0.96	0.16	44,44,44,44	0
57	MG	BA	3457	1/1	0.96	0.16	35,35,35,35	0
57	MG	DA	3089	1/1	0.96	0.13	19,19,19,19	0
57	MG	BA	3177	1/1	0.96	0.30	21,21,21,21	0
57	MG	DA	3091	1/1	0.96	0.14	26,26,26,26	0
57	MG	DA	3092	1/1	0.96	0.36	25,25,25,25	0
57	MG	BA	3110	1/1	0.96	0.23	32,32,32,32	0
57	MG	BA	3076	1/1	0.96	0.34	24,24,24,24	0
57	MG	BB	202	1/1	0.96	0.32	21,21,21,21	0
57	MG	CA	1641	1/1	0.96	0.07	18,18,18,18	0
57	MG	BA	3144	1/1	0.96	0.20	24,24,24,24	0
57	MG	BA	3222	1/1	0.96	0.30	31,31,31,31	0
57	MG	DA	3202	1/1	0.96	0.58	38,38,38,38	0
57	MG	DA	3100	1/1	0.96	0.33	21,21,21,21	0
57	MG	BA	3273	1/1	0.96	0.21	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	BA	3337	1/1	0.96	0.25	37,37,37,37	0
57	MG	BA	3398	1/1	0.96	0.17	34,34,34,34	0
57	MG	DB	206	1/1	0.96	0.16	19,19,19,19	0
57	MG	BA	3275	1/1	0.96	0.28	27,27,27,27	0
57	MG	DA	3005	1/1	0.96	0.48	45,45,45,45	0
57	MG	DA	3007	1/1	0.96	0.43	54,54,54,54	0
57	MG	BD	301	1/1	0.96	0.25	34,34,34,34	0
57	MG	BE	301	1/1	0.96	0.29	43,43,43,43	0
57	MG	BA	3276	1/1	0.96	0.39	21,21,21,21	0
57	MG	DR	201	1/1	0.96	0.15	22,22,22,22	0
57	MG	AA	1627	1/1	0.96	0.15	21,21,21,21	0
57	MG	DA	3015	1/1	0.96	0.22	36,36,36,36	0
57	MG	BA	3278	1/1	0.96	0.17	33,33,33,33	0
57	MG	DA	3113	1/1	0.96	0.42	26,26,26,26	0
57	MG	BA	3078	1/1	0.96	0.38	29,29,29,29	0
57	MG	CA	1667	1/1	0.97	0.18	23,23,23,23	0
57	MG	DA	3018	1/1	0.97	0.45	21,21,21,21	0
57	MG	AA	1663	1/1	0.97	0.16	27,27,27,27	0
57	MG	DA	3170	1/1	0.97	0.27	22,22,22,22	0
57	MG	BA	3335	1/1	0.97	0.10	47,47,47,47	0
57	MG	BA	3441	1/1	0.97	0.41	37,37,37,37	0
57	MG	BA	3048	1/1	0.97	0.39	27,27,27,27	0
57	MG	BA	3443	1/1	0.97	0.23	24,24,24,24	0
57	MG	CA	1673	1/1	0.97	0.17	26,26,26,26	0
57	MG	BA	3089	1/1	0.97	0.37	24,24,24,24	0
57	MG	AA	1699	1/1	0.97	0.26	29,29,29,29	0
57	MG	BA	3119	1/1	0.97	0.42	23,23,23,23	0
57	MG	BA	3340	1/1	0.97	0.21	29,29,29,29	0
57	MG	CA	1617	1/1	0.97	0.25	35,35,35,35	0
57	MG	BA	3341	1/1	0.97	0.19	28,28,28,28	0
57	MG	BA	3213	1/1	0.97	0.29	43,43,43,43	0
57	MG	AA	1623	1/1	0.97	0.32	18,18,18,18	0
57	MG	CA	1682	1/1	0.97	0.26	40,40,40,40	0
57	MG	AA	1630	1/1	0.97	0.29	41,41,41,41	0
57	MG	BA	3216	1/1	0.97	0.44	20,20,20,20	0
57	MG	BA	3396	1/1	0.97	0.11	26,26,26,26	0
57	MG	BA	3299	1/1	0.97	0.21	22,22,22,22	0
57	MG	DA	3039	1/1	0.97	0.31	18,18,18,18	0
57	MG	BA	3072	1/1	0.97	0.43	23,23,23,23	0
57	MG	DA	3041	1/1	0.97	0.16	19,19,19,19	0
57	MG	BA	3096	1/1	0.97	0.45	24,24,24,24	0
57	MG	BA	3400	1/1	0.97	0.08	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
57	MG	BA	3031	1/1	0.97	0.20	21,21,21,21	0
57	MG	BA	3098	1/1	0.97	0.24	25,25,25,25	0
57	MG	DA	3197	1/1	0.97	0.27	27,27,27,27	0
57	MG	CA	1630	1/1	0.97	0.11	29,29,29,29	0
57	MG	BA	3351	1/1	0.97	0.15	56,56,56,56	0
57	MG	BB	204	1/1	0.97	0.38	54,54,54,54	0
57	MG	BA	3003	1/1	0.97	0.12	25,25,25,25	0
57	MG	BA	3019	1/1	0.97	0.34	25,25,25,25	0
57	MG	BA	3307	1/1	0.97	0.46	24,24,24,24	0
57	MG	BA	3101	1/1	0.97	0.10	21,21,21,21	0
57	MG	BA	3056	1/1	0.97	0.42	26,26,26,26	0
57	MG	DA	3127	1/1	0.97	0.33	34,34,34,34	0
57	MG	BA	3160	1/1	0.97	0.15	30,30,30,30	0
57	MG	DA	3056	1/1	0.97	0.22	30,30,30,30	0
57	MG	AA	1639	1/1	0.97	0.15	27,27,27,27	0
57	MG	DA	3058	1/1	0.97	0.21	27,27,27,27	0
57	MG	DA	3289	1/1	0.97	0.15	27,27,27,27	0
57	MG	AA	1606	1/1	0.97	0.23	42,42,42,42	0
57	MG	BA	3413	1/1	0.97	0.29	24,24,24,24	0
57	MG	BA	3229	1/1	0.97	0.26	6,6,6,6	0
57	MG	AA	1676	1/1	0.97	0.30	30,30,30,30	0
57	MG	DA	3294	1/1	0.97	0.41	19,19,19,19	0
57	MG	BA	3164	1/1	0.97	0.16	35,35,35,35	0
57	MG	BA	3272	1/1	0.97	0.48	23,23,23,23	0
57	MG	BA	3134	1/1	0.97	0.17	22,22,22,22	0
57	MG	DA	3066	1/1	0.97	0.30	22,22,22,22	0
57	MG	DA	3219	1/1	0.97	0.45	34,34,34,34	0
57	MG	BA	3274	1/1	0.97	0.35	27,27,27,27	0
57	MG	AA	1677	1/1	0.97	0.13	48,48,48,48	0
57	MG	CA	1650	1/1	0.97	0.12	28,28,28,28	0
57	MG	BA	3108	1/1	0.97	0.23	35,35,35,35	0
57	MG	BA	3423	1/1	0.97	0.08	25,25,25,25	0
57	MG	DA	3145	1/1	0.97	0.73	57,57,57,57	0
57	MG	BA	3168	1/1	0.97	0.14	33,33,33,33	0
57	MG	BA	3109	1/1	0.97	0.29	21,21,21,21	0
57	MG	BA	3039	1/1	0.97	0.75	39,39,39,39	0
57	MG	BA	3324	1/1	0.97	0.17	25,25,25,25	0
57	MG	BA	3325	1/1	0.97	0.33	22,22,22,22	0
57	MG	BA	3202	1/1	0.97	0.16	19,19,19,19	0
57	MG	DB	207	1/1	0.97	0.18	27,27,27,27	0
57	MG	BA	3327	1/1	0.97	0.20	28,28,28,28	0
57	MG	AA	1610	1/1	0.97	0.45	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	DA	3009	1/1	0.97	0.21	18,18,18,18	0
57	MG	DA	3082	1/1	0.97	0.29	21,21,21,21	0
57	MG	DA	3083	1/1	0.97	0.10	30,30,30,30	0
57	MG	AA	1670	1/1	0.97	0.24	30,30,30,30	0
57	MG	DA	3012	1/1	0.97	0.49	28,28,28,28	0
57	MG	BA	3283	1/1	0.97	0.34	20,20,20,20	0
57	MG	DA	3163	1/1	0.97	0.26	32,32,32,32	0
57	MG	AA	1708	1/1	0.97	0.11	46,46,46,46	0
57	MG	D6	102	1/1	0.97	0.18	23,23,23,23	0
57	MG	BA	3142	1/1	0.97	0.30	25,25,25,25	0
58	ZN	B5	105	1/1	0.97	0.17	90,90,90,90	0
58	ZN	CD	301	1/1	0.97	0.34	81,81,81,81	0
57	MG	BA	3045	1/1	0.97	0.22	6,6,6,6	0
57	MG	BA	3018	1/1	0.98	0.51	21,21,21,21	0
57	MG	BA	3154	1/1	0.98	0.31	38,38,38,38	0
57	MG	BP	202	1/1	0.98	0.14	22,22,22,22	0
57	MG	DA	3097	1/1	0.98	0.26	21,21,21,21	0
57	MG	BA	3065	1/1	0.98	0.31	24,24,24,24	0
57	MG	BA	3293	1/1	0.98	0.24	23,23,23,23	0
57	MG	BA	3047	1/1	0.98	0.39	62,62,62,62	0
57	MG	BA	3364	1/1	0.98	0.17	32,32,32,32	0
57	MG	BA	3389	1/1	0.98	0.24	21,21,21,21	0
57	MG	DA	3146	1/1	0.98	0.25	60,60,60,60	0
57	MG	DA	3193	1/1	0.98	0.31	27,27,27,27	0
57	MG	BA	3128	1/1	0.98	0.40	33,33,33,33	0
57	MG	DA	3148	1/1	0.98	0.33	24,24,24,24	0
57	MG	BA	3102	1/1	0.98	0.55	33,33,33,33	0
57	MG	BA	3392	1/1	0.98	0.14	52,52,52,52	0
57	MG	BA	3420	1/1	0.98	0.18	45,45,45,45	0
57	MG	CA	1699	1/1	0.98	0.23	32,32,32,32	0
57	MG	BA	3219	1/1	0.98	0.12	28,28,28,28	0
57	MG	BA	3040	1/1	0.98	0.24	24,24,24,24	0
57	MG	BA	3237	1/1	0.98	0.13	21,21,21,21	0
57	MG	CA	1666	1/1	0.98	0.41	18,18,18,18	0
57	MG	BA	3455	1/1	0.98	0.21	46,46,46,46	0
57	MG	BA	3049	1/1	0.98	0.43	24,24,24,24	0
57	MG	DA	3253	1/1	0.98	0.21	20,20,20,20	0
57	MG	DA	3159	1/1	0.98	0.49	38,38,38,38	0
57	MG	BA	3035	1/1	0.98	0.41	25,25,25,25	0
57	MG	AA	1668	1/1	0.98	0.13	40,40,40,40	0
57	MG	DA	3257	1/1	0.98	0.16	35,35,35,35	0
57	MG	BA	3303	1/1	0.98	0.34	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
57	MG	DA	3074	1/1	0.98	0.26	21,21,21,21	0
57	MG	CA	1636	1/1	0.98	0.16	28,28,28,28	0
57	MG	BA	3094	1/1	0.98	0.30	34,34,34,34	0
57	MG	BA	3429	1/1	0.98	0.05	33,33,33,33	0
57	MG	DA	3036	1/1	0.98	0.49	27,27,27,27	0
57	MG	BA	3043	1/1	0.98	0.34	25,25,25,25	0
57	MG	BA	3010	1/1	0.98	0.24	23,23,23,23	0
57	MG	BA	3073	1/1	0.98	0.21	23,23,23,23	0
57	MG	BA	3245	1/1	0.98	0.18	27,27,27,27	0
57	MG	BA	3285	1/1	0.98	0.14	6,6,6,6	0
57	MG	BA	3435	1/1	0.98	0.05	30,30,30,30	0
57	MG	DA	3002	1/1	0.98	0.64	37,37,37,37	0
57	MG	CA	1610	1/1	0.98	0.34	30,30,30,30	0
57	MG	BA	3004	1/1	0.98	0.54	61,61,61,61	0
57	MG	BA	3266	1/1	0.98	0.46	26,26,26,26	0
57	MG	DA	3006	1/1	0.98	0.34	28,28,28,28	0
57	MG	BA	3267	1/1	0.98	0.16	19,19,19,19	0
57	MG	CA	1614	1/1	0.98	0.15	30,30,30,30	0
57	MG	BA	3409	1/1	0.98	0.11	24,24,24,24	0
57	MG	DA	3051	1/1	0.98	0.18	6,6,6,6	0
57	MG	BA	3287	1/1	0.99	0.17	20,20,20,20	0
57	MG	DA	3011	1/1	0.99	0.35	20,20,20,20	0
57	MG	BA	3452	1/1	0.99	0.15	16,16,16,16	0
57	MG	BA	3090	1/1	0.99	0.24	17,17,17,17	0
58	ZN	B9	101	1/1	0.99	0.12	75,75,75,75	0
57	MG	AA	1655	1/1	0.99	0.21	6,6,6,6	0
57	MG	BA	3250	1/1	0.99	0.50	22,22,22,22	0
58	ZN	D9	101	1/1	0.99	0.15	30,30,30,30	0

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

There are no such residues in this entry.