



wwPDB X-ray Structure Validation Summary Report ⓘ

Oct 10, 2023 – 12:27 AM EDT

PDB ID : 4V7X
Title : Structure of the *Thermus thermophilus* ribosome complexed with erythromycin.
Authors : Bulkley, D.P.; Innis, C.A.; Blaha, G.; Steitz, T.A.
Deposited on : 2010-08-17
Resolution : 3.00 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

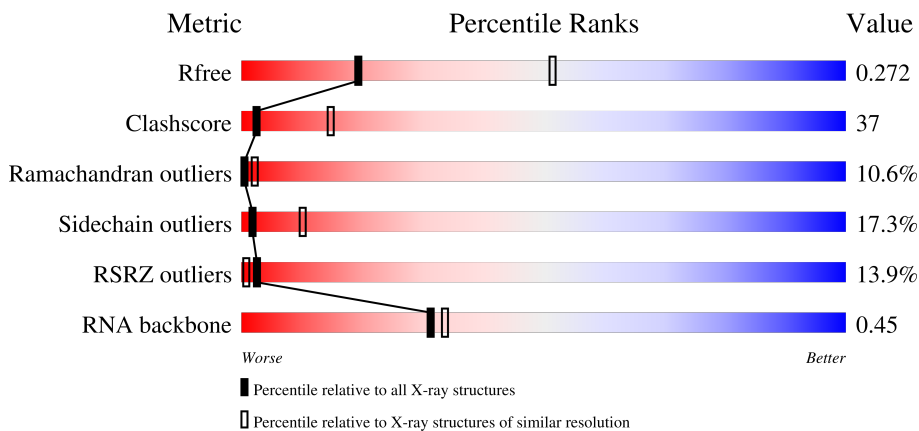
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.00 Å.

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



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

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments 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	1522	Upper red bar: 20% Lower bar segments: 25% (red), 59% (yellow), 15% (orange), 1% (grey)
1	CA	1522	Upper red bar: 20% Lower bar segments: 25% (red), 58% (yellow), 15% (orange), 1% (grey)
2	AB	256	Upper red bar: 25% Lower bar segments: 34% (red), 46% (yellow), 11% (orange), 8% (grey)
2	CB	256	Upper red bar: 30% Lower bar segments: 34% (red), 46% (yellow), 11% (orange), 8% (grey)

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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	160	
5	CE	160	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	135	
12	CL	135	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	

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Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	B0	85	
22	D0	85	
23	B1	98	
23	D1	98	
24	B2	72	
24	D2	72	
25	B3	60	
25	D3	60	
26	B4	71	
26	D4	71	
27	B5	60	
27	D5	60	




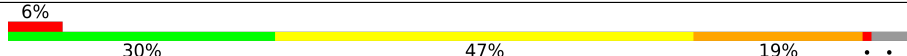
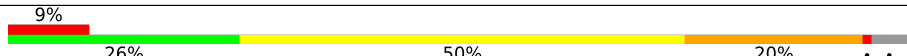
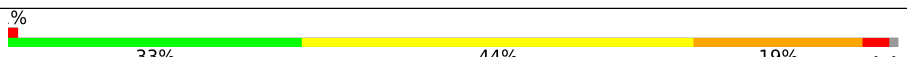
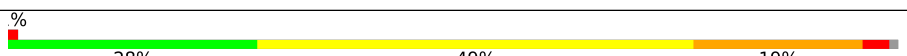
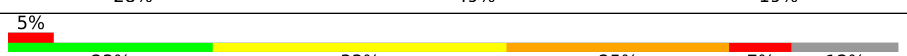
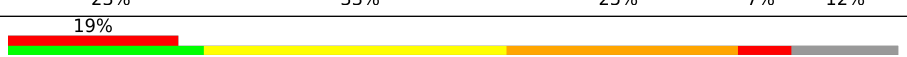
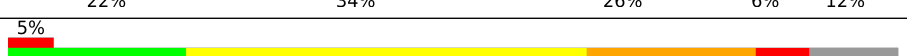
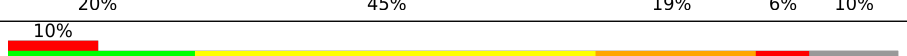
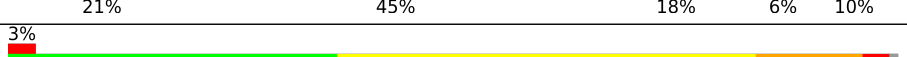

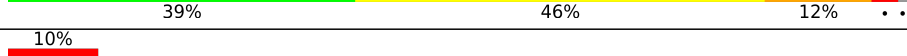

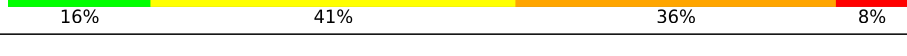
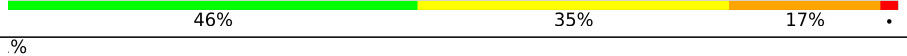

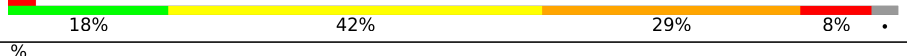



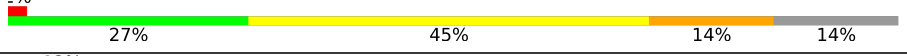
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Mol	Chain	Length	Quality of chain
28	B6	54	
28	D6	54	
29	B7	49	
29	D7	49	
30	B8	65	
30	D8	65	
31	BA	2787	
31	DA	2787	
32	BB	122	
32	DB	122	
33	BD	276	
33	DD	276	
34	BE	206	
34	DE	206	
35	BF	210	
35	DF	210	
36	BG	182	
36	DG	182	
37	BH	180	
37	DH	180	
38	BI	148	
38	DI	148	
39	BN	140	
39	DN	140	
40	BO	122	

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Mol	Chain	Length	Quality of chain
40	DO	122	
41	BP	150	
41	DP	150	
42	BQ	141	
42	DQ	141	
43	BR	118	
43	DR	118	
44	BS	112	
44	DS	112	
45	BT	146	
45	DT	146	
46	BU	118	
46	DU	118	
47	BV	101	
47	DV	101	
48	BW	113	
48	DW	113	
49	BX	96	
49	DX	96	
50	BY	110	
50	DY	110	
51	BZ	206	
51	DZ	206	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
52	MG	AA	1634	-	-	-	X
52	MG	AA	1642	-	-	-	X
52	MG	AA	1645	-	-	-	X
52	MG	BA	3074	-	-	-	X
52	MG	BA	3151	-	-	-	X
52	MG	BA	3206	-	-	-	X
52	MG	BA	3245	-	-	-	X
52	MG	BA	3304	-	-	-	X
52	MG	BA	3319	-	-	-	X
52	MG	BA	3327	-	-	-	X
52	MG	BA	3358	-	-	-	X
52	MG	CA	1613	-	-	-	X
52	MG	CA	1628	-	-	-	X
52	MG	CA	1630	-	-	-	X
52	MG	CA	1635	-	-	-	X
52	MG	DA	3191	-	-	-	X
52	MG	DA	3205	-	-	-	X
52	MG	DA	3231	-	-	-	X
52	MG	DA	3247	-	-	-	X
52	MG	DA	3264	-	-	-	X
52	MG	DA	3276	-	-	-	X
52	MG	DA	3278	-	-	-	X
52	MG	DA	3280	-	-	-	X
52	MG	DA	3291	-	-	-	X
52	MG	DA	3309	-	-	-	X
52	MG	DA	3316	-	-	-	X
52	MG	DA	3324	-	-	-	X

2 Entry composition

There are 55 unique types of molecules in this entry. The entry contains 278034 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 rRNA.

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

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

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

- 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 1613	C 1016	N 315	O 281	S 1	0	0	1
3	CC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	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 1703	C 1066	N 339	O 291	S 7	0	0	0
4	CD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	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
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AI	58	ARG	HIS	CONFLICT	UNP P80374
CI	58	ARG	HIS	CONFLICT	UNP P80374

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	AJ	99	Total 795	C 499	N 157	O 138	S 1	0	0	1
10	CJ	99	Total 795	C 499	N 157	O 138	S 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	Total 885	C 549	N 168	O 165	S 3	0	0	0
11	CK	119	Total 885	C 549	N 168	O 165	S 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	Total 971	C 611	N 196	O 163	S 1	0	0	1
12	CL	125	Total 971	C 611	N 196	O 163	S 1	0	0	1

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AL	2	VAL	-	INSERTION	UNP Q5SHN3
AL	3	ALA	-	INSERTION	UNP Q5SHN3
AL	4	LEU	-	INSERTION	UNP Q5SHN3
CL	2	VAL	-	INSERTION	UNP Q5SHN3
CL	3	ALA	-	INSERTION	UNP Q5SHN3
CL	4	LEU	-	INSERTION	UNP Q5SHN3

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AM	115	Total 921	C 569	N 190	O 160	S 2	0	0	0
13	CM	115	Total 921	C 569	N 190	O 160	S 2	0	0	0

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

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

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

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

- 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	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	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 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	B0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			
22	D0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	B1	89	Total	C	N	O	0	0	1
			693	435	140	118			
23	D1	89	Total	C	N	O	0	0	1
			693	435	140	118			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	B2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			
24	D2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
25	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B4	32	Total	C	N	O	0	0	0
			157	93	32	32			
26	D4	32	Total	C	N	O	0	0	0
			157	93	32	32			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			
27	D5	59	Total	C	N	O	S	9	0	0
			459	288	90	76	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
28	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
30	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 31 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			
31	DA	2725	Total	C	N	O	P	0	0	0
			58698	26124	10986	18864	2724			

- Molecule 32 is a RNA chain called 5S ribosomal RNA.

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

- Molecule 33 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			
33	DD	272	Total	C	N	O	S	0	0	1
			2105	1329	417	356	3			

- Molecule 34 is a protein called 50S ribosomal protein L3.

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

- Molecule 35 is a protein called 50S ribosomal protein L4.

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

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

- Molecule 36 is a protein called 50S ribosomal protein L5.

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

- Molecule 37 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
37	BH	160	Total 1223	C 773	N 229	O 220	S 1	0	0	1
37	DH	160	Total 1223	C 773	N 229	O 220	S 1	0	0	1

- Molecule 38 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
38	BI	146	Total 1132	C 723	N 201	O 207	S 1	0	0	1
38	DI	146	Total 1132	C 723	N 201	O 207	S 1	0	0	1

- Molecule 39 is a protein called 50S ribosomal protein L13.

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

- Molecule 40 is a protein called 50S ribosomal protein L14.

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

- Molecule 41 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
41	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 42 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			
42	DQ	136	Total	C	N	O	S	0	0	0
			1080	688	204	183	5			

- Molecule 43 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
43	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
43	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 44 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BS	99	Total	C	N	O	0	0	1
			771	486	155	130			
44	DS	99	Total	C	N	O	0	0	1
			771	486	155	130			

- Molecule 45 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			
45	DT	132	Total	C	N	O	S	0	0	0
			1100	686	227	186	1			

- Molecule 46 is a protein called 50S ribosomal protein L20.

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

- Molecule 47 is a protein called 50S ribosomal protein L21.

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

- Molecule 48 is a protein called 50S ribosomal protein L22.

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

- Molecule 49 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	BX	93	Total	C	N	O	0	0	1
			726	471	132	123			
49	DX	93	Total	C	N	O	0	0	1
			726	471	132	123			

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

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

- Molecule 51 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BZ	177	Total	C	N	O	S	0	0	1
			1404	897	253	252	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	DZ	177	1404	897	253	252	2	0	0	1

- Molecule 52 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
52	AA	54	Total	Mg	0	0
			54	54		
52	B0	1	Total	Mg	0	0
			1	1		
52	B1	1	Total	Mg	0	0
			1	1		
52	B5	2	Total	Mg	0	0
			2	2		
52	BA	362	Total	Mg	0	0
			362	362		
52	BB	7	Total	Mg	0	0
			7	7		
52	BD	1	Total	Mg	0	0
			1	1		
52	BE	1	Total	Mg	0	0
			1	1		
52	BF	1	Total	Mg	0	0
			1	1		
52	BP	3	Total	Mg	0	0
			3	3		
52	BQ	2	Total	Mg	0	0
			2	2		
52	BR	1	Total	Mg	0	0
			1	1		
52	BU	1	Total	Mg	0	0
			1	1		
52	BX	1	Total	Mg	0	0
			1	1		
52	CA	50	Total	Mg	0	0
			50	50		
52	D0	1	Total	Mg	0	0
			1	1		
52	D3	1	Total	Mg	0	0
			1	1		
52	D5	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
52	D7	1	Total Mg 1 1	0	0
52	DA	328	Total Mg 328 328	0	0
52	DB	3	Total Mg 3 3	0	0
52	DE	1	Total Mg 1 1	0	0
52	DF	1	Total Mg 1 1	0	0
52	DP	1	Total Mg 1 1	0	0
52	DQ	1	Total Mg 1 1	0	0
52	DR	1	Total Mg 1 1	0	0
52	DU	1	Total Mg 1 1	0	0
52	DX	1	Total Mg 1 1	0	0

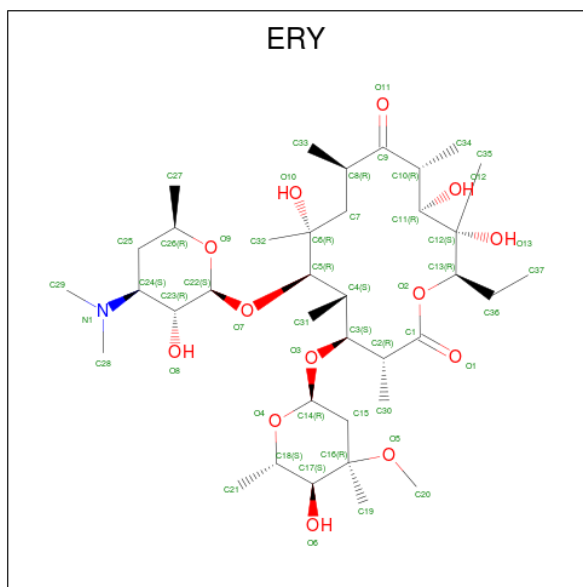
- Molecule 53 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
53	AD	1	Total Zn 1 1	0	0
53	AN	1	Total Zn 1 1	0	0
53	CD	1	Total Zn 1 1	0	0
53	CN	1	Total Zn 1 1	0	0

- Molecule 54 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	BA	1	Total K 1 1	0	0
54	DA	1	Total K 1 1	0	0

- Molecule 55 is ERYTHROMYCIN A (three-letter code: ERY) (formula: C₃₇H₆₇NO₁₃).

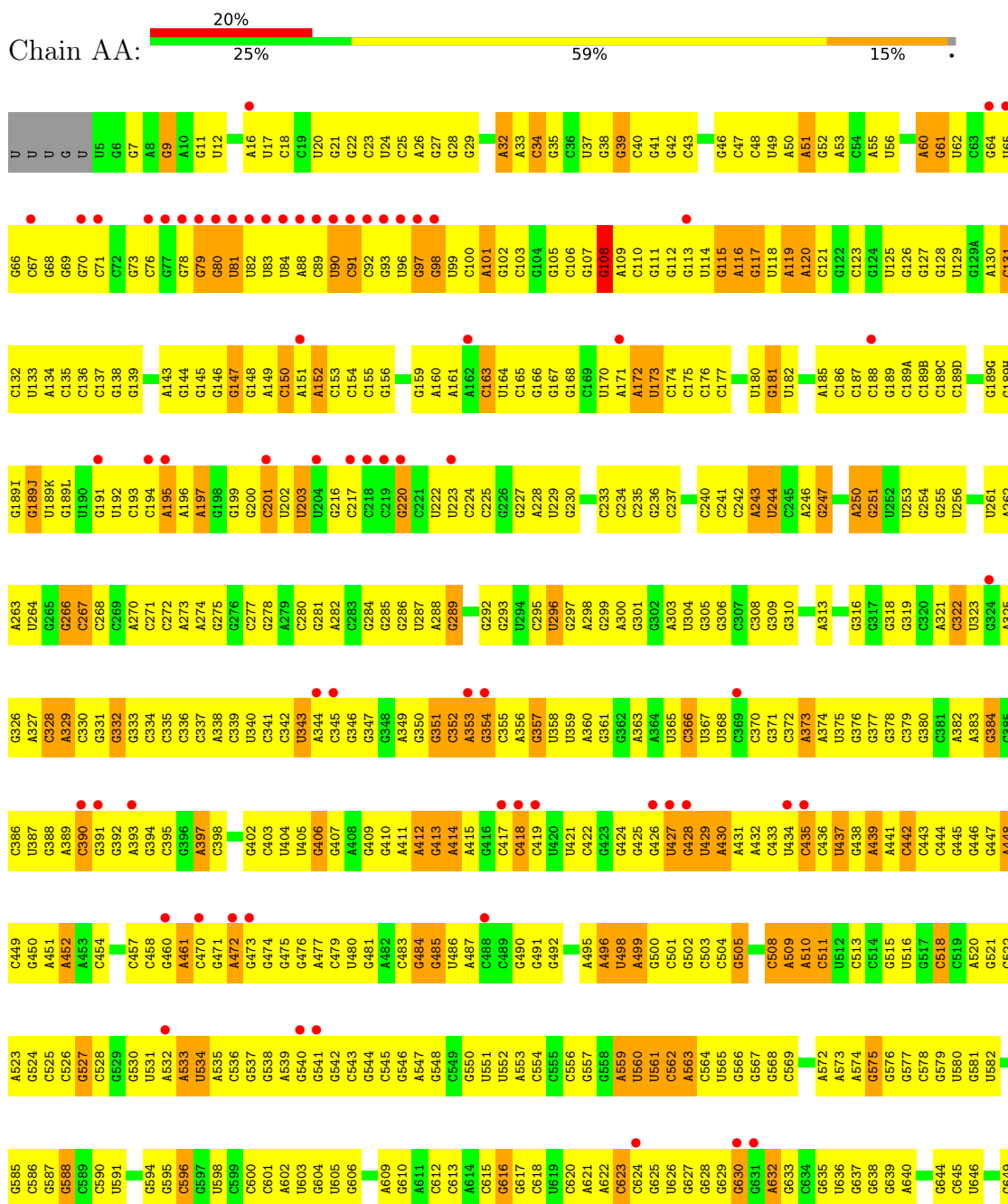


Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
55	BA	1	51	37	1	13	0	0
55	DA	1	51	37	1	13	0	0

3 Residue-property plots [i](#)

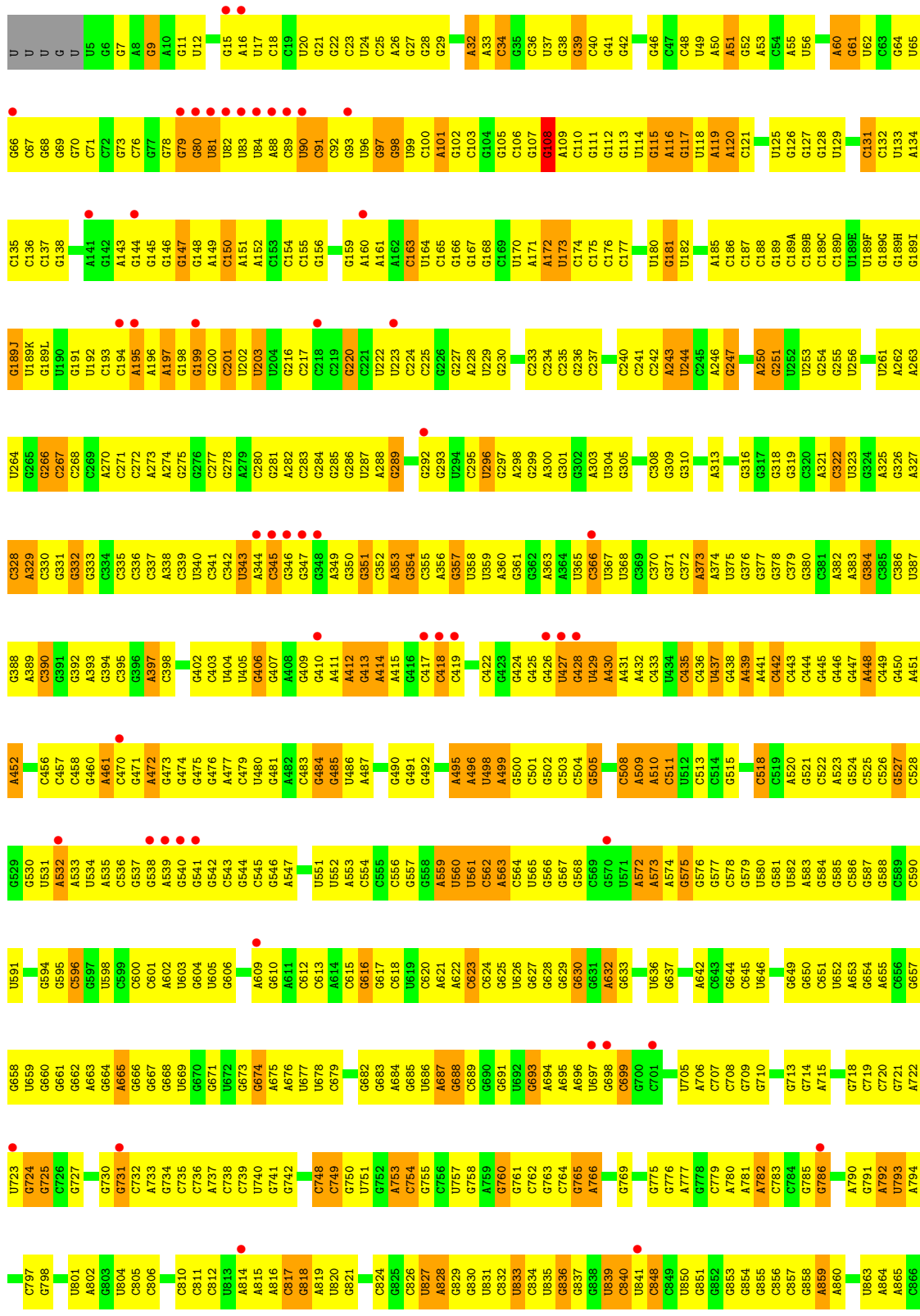
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

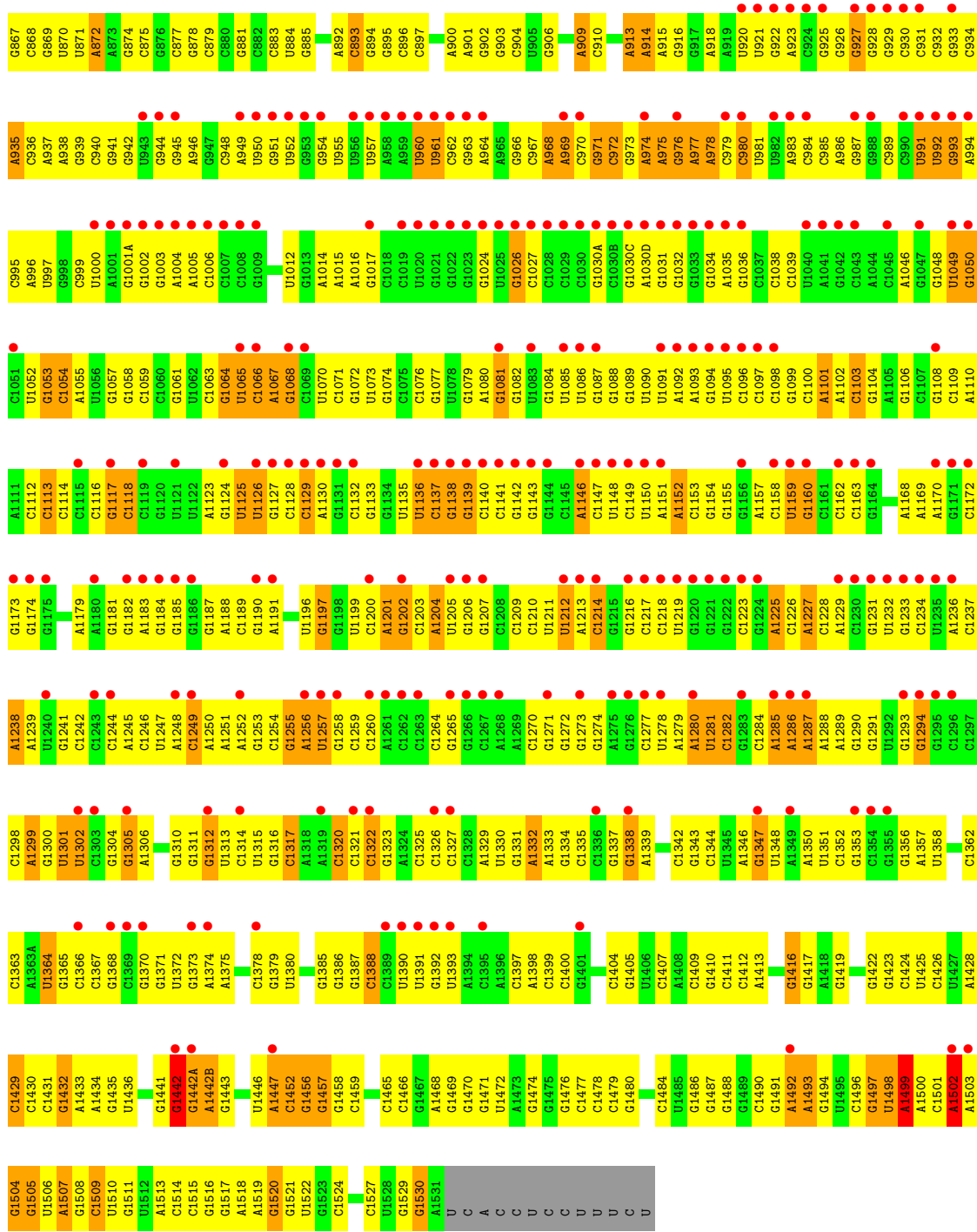
● Molecule 1: 16S rRNA



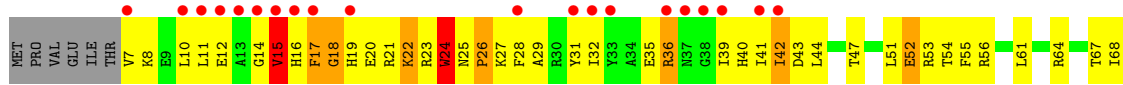
G1507	C1429	G1381	G1300	A1239	C1112	C1051	A996	C936	U863	U786	G713	G650
G1508	C1430	C1362	U1301	U1240	C1113	U1052	U997	A937	A863	U789	G714	C651
C1509	C1431	A1363	U1302	G1241	C1114	C1053	G998	A938	A864	U790	A715	U652
U1510	G1432	A1363A	C1303	C1242	C1115	C1054	C999	G939	A865	A791		A653
G1511	A1433	U1364	G1304	G1243	C1116	U1055	U1000	C940	C866	G791		G654
A1434	G1434	U1365	G1305	C1244	C1117	U1056	A1001	G941	G867	A792		A655
G1435	A1435	C1366	A1306	A1245	C1118	G1057	G1001A	G942	C968	U793		C656
U1436	U1436	C1367	U1307	G1246	C1119	G1058	G1002	G943	G869	A794		G657
G1441	G1441	G1368	U1308	U1247	C1120	U1059	G1003	G944	G870	U795		G658
G1442	G1442	C1369	G1309	C1248	U1121	C1060	A1004	G945	C871	C797		G659
G1516	G1442A	G1370	G1310	A1249	U1122	G1061	A1005	G946	A872	U798		G660
A1518	A1442B	G1371	G1311	A1250	A1123	U1062	A1006	G947	G873	G799		G661
A1442C	G1443	U1372	G1312	A1251	G1124	C1063	C1007	G948	G874			G662
G1443B	G1443	G1373	U1313	A1252	U1125	G1064	C1008	A949	C875			A663
U1446	U1446	A1374	C1314	G1253	U1126	U1065	G1009	U950	G876			G664
U1521	U1447	A1375	U1315	G1254	G1127	C1066	G1010	G951	G877			A665
G1523	A1447	G1378	G1316	G1255	U1128	U1067	G1011	U871	C878			G666
C1524	C1452	U1379	U1317	A1256	C1129	G1068	U1012	G952	C879			G667
G1525	G1456	G1379	A1318	U1257	A1130	U1069	U1013	G953	C880			G668
G1526	G1457	U1380	A1319	G1258	G1131	U1070	A1014	G954	C881			G669
C1527	G1458	G1388	C1320	G1259	C1132	C1071	U1015	U956	C882			G670
U1528	C1459	G1385	C1321	C1260	G1133	U1072	A1016	G957	U884			G671
G1529	G1460	U1392	C1322	A1261	G1134	U1073	G1017	A958	A814			U672
G1530	G1463	G1387	C1323	C1262	U1135	G1081	C1018	A959	A815			G673
A1531	G1464	C1388	A1324	C1263	U1136	U1082	U1019	U960	A816			G674
U		G1389	C1325	C1264	C1137	G1077	U1020	U961	C817			A675
C	A1468	U1390	C1326	G1265	G1138	U1078	G1021	G962	G818			A676
A	G1469	U1391	C1327	G1266	G1139	G1079	U1022	G963	A819			A677
C	G1470	G1392	C1328	C1267	U1140	U1080	G1023	G964	U820			U678
C	G1471	U1393	A1329	A1268	C1141	G1081	G1024	A965	A901			C679
U	U1472	A1394	U1330	A1269	G1142	U1082	U1025	G966	G902			C748
C		C1395	G1331	C1270	G1143	U1083	U1026	G967	G903			G749
C	C1477	A1396	A1332	G1271	U1144	G1084	C1027	U968	G906			G750
U	G1478	C1397	A1333	C1272	A1146	U1085	U1028	A969	G907			U751
U	C1479	A1398	G1334	G1273	U1147	U1086	C1029	U827	U752			A684
U	G1480	C1399	C1335	G1274	U1148	G1087	U1030	A828	A753			G685
C		C1400	C1336	A1275	C1149	U1088	G1030A	G829	C754			U686
U	A1483	C1403	G1337	G1276	U1150	G1089	C1030B	G972	G755			A687
	G1486	C1404	G1338	C1277	U1151	U1090	C1030C	G973	G756			G688
	G1487	G1405	A1339	U1278	A1152	U1091	A1030D	A974	U757			C689
	G1488	U1406	C1342	A1279	C1153	A1092	G1031	A975	G758			G690
	G1489	G1407	G1343	U1280	G1154	A1093	G1032	G976	A759			G691
	C1490	A1408	C1344	C1281	U1155	G1094	G1033	A977	G760			U692
	G1491	C1409	U1345	C1282	G1156	U1095	U1034	U835	G761			G693
	A1492	G1410	A1346	G1283	A1157	C1096	A1035	C979	C762			A694
	A1493	G1411	G1347	C1284	U1158	C1097	U1037	G980	G763			A695
	G1494	C1412	U1348	A1285	U1159	C1098	C1037	U921	C764			A696
	U1495	A1413	A1349	A1286	G1160	G1099	C1038	A922	G765			G697
	C1496	A1413	A1350	A1287	C1161	C1100	C1039	C924	A766			A698
	G1497	G1416	U1351	A1288	C1162	U1040	U1040	C925	G775			G699
	A1498	G1417	C1352	G1289	C1163	A1101	A1041	G926	A776			A702
	A1499	A1418	G1353	U1290	U1168	A1102	G1042	G927	G777			G703
	A1500	G1419	U1292	U1291	A1169	G1104	A1043	G928	A778			A704
	C1501	G1420	C1354	U1292	A1170	G1105	A1044	G929	G779			U705
	A1502	G1421	G1355	G1293	G1171	C1106	A1045	C930	C780			A706
	A1503	G1423	U1295	U1294	G1172	G1107	A1046	G931	A781			C707
	G1504	C1424	A1296	A1295	C1173	G1108	G1047	U991	C857			C708
	G1505	U1506	C1297	C1298	G1174	U1109	U1048	U992	G858			G710
	U1506		A1299	A1298	G1175	A1110	U1049	G993	A859			G711
						A1111	G1050	C995	A935			G786

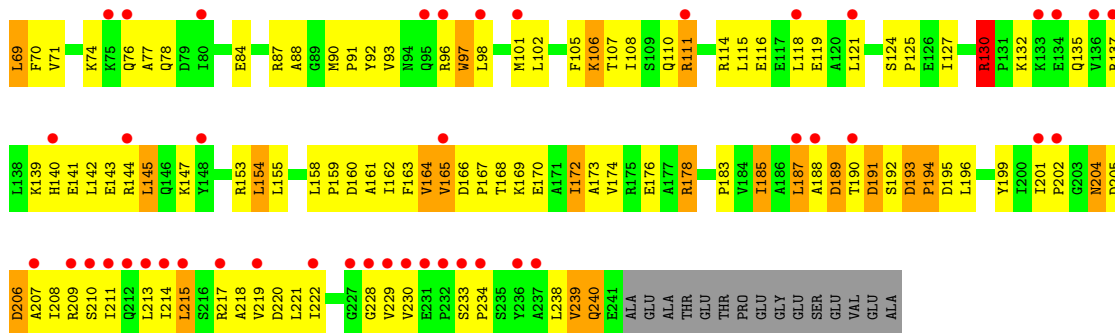
● Molecule 1: 16S rRNA



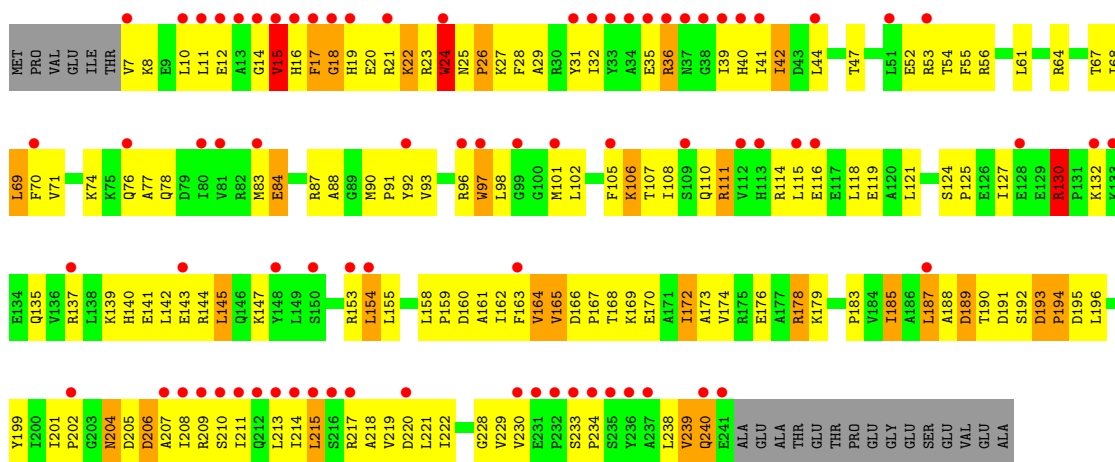


• Molecule 2: 30S ribosomal protein S2

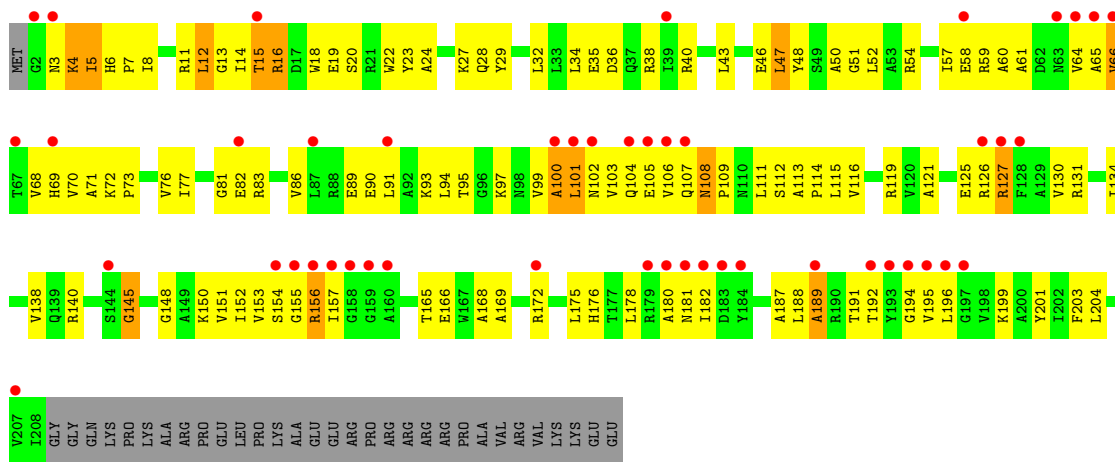




• Molecule 2: 30S ribosomal protein S2

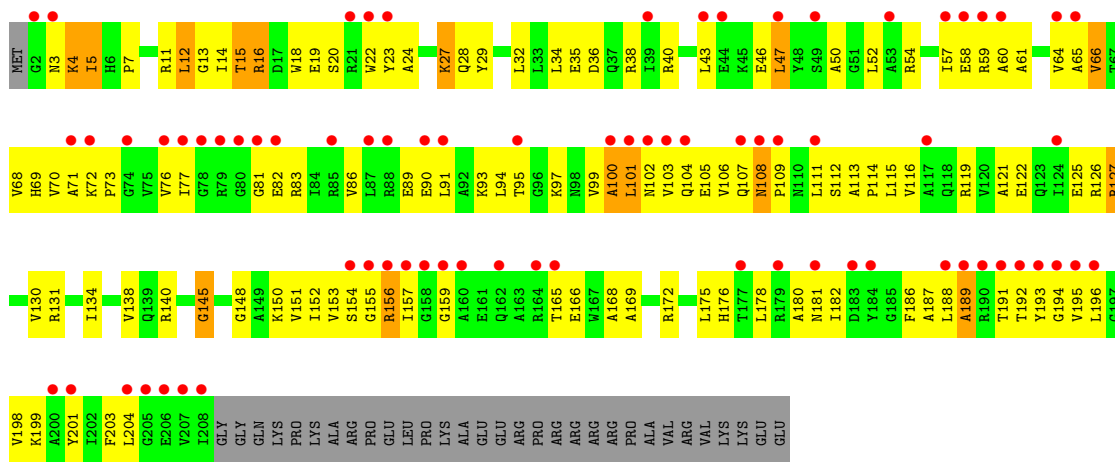


• Molecule 3: 30S ribosomal protein S3

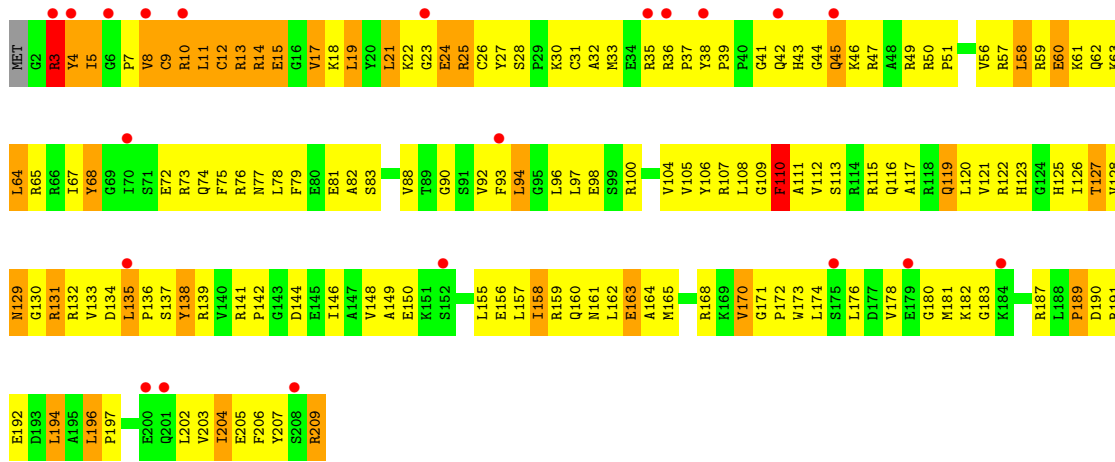


• Molecule 3: 30S ribosomal protein S3

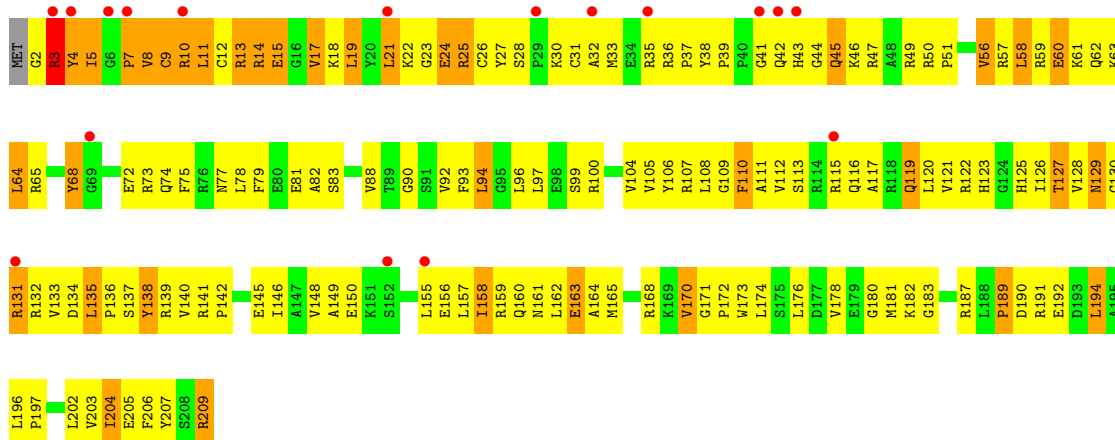




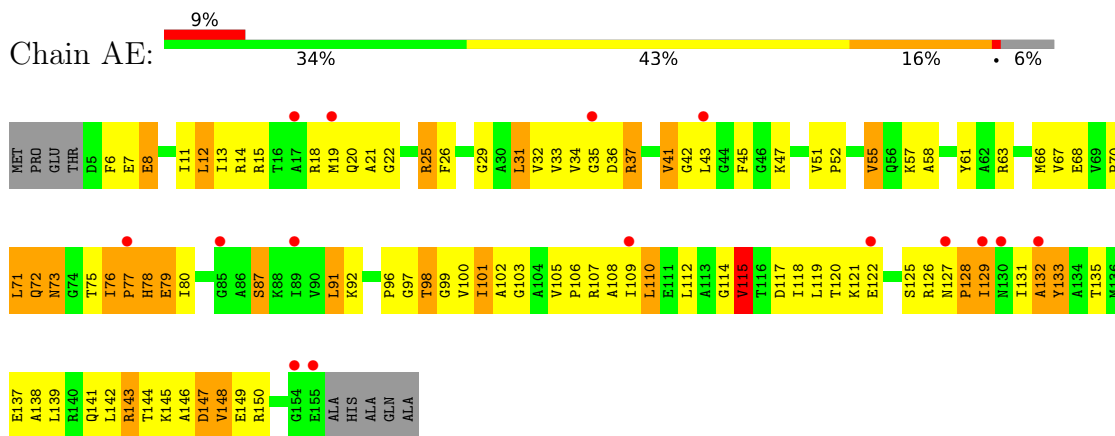
• Molecule 4: 30S ribosomal protein S4



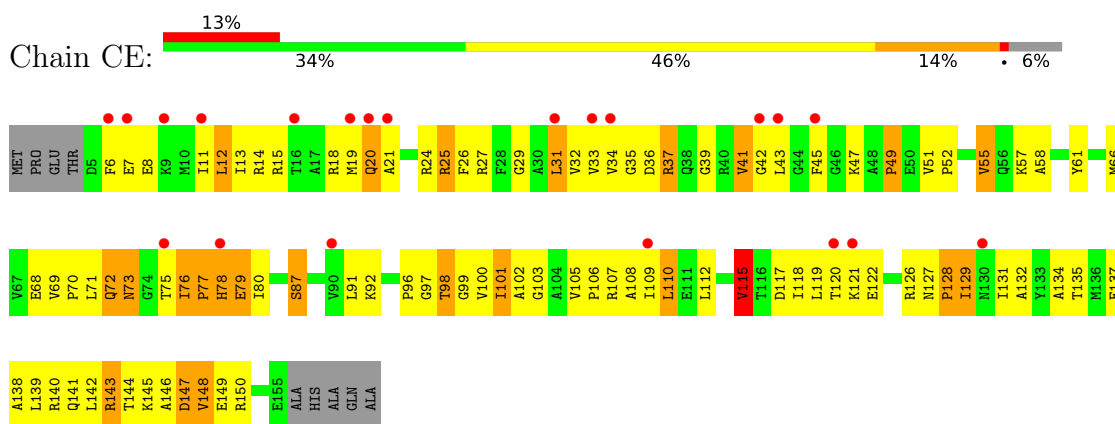
• Molecule 4: 30S ribosomal protein S4



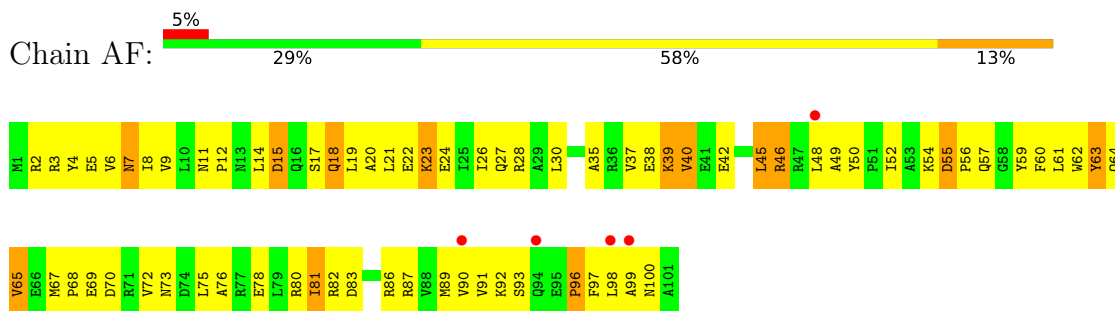
• Molecule 5: 30S ribosomal protein S5



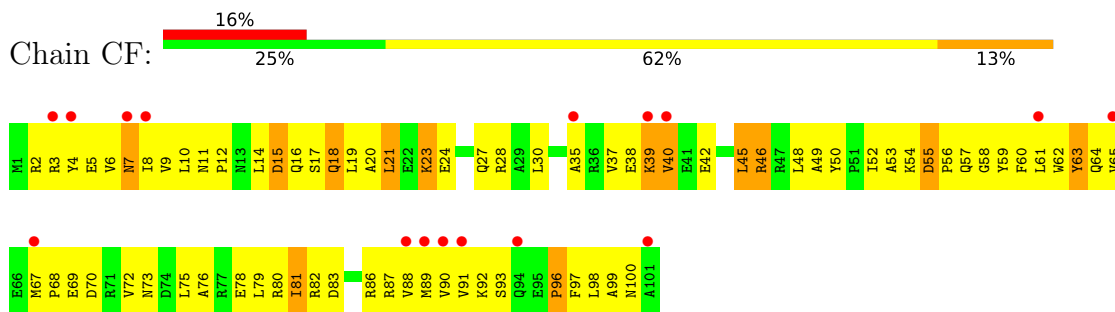
• Molecule 5: 30S ribosomal protein S5



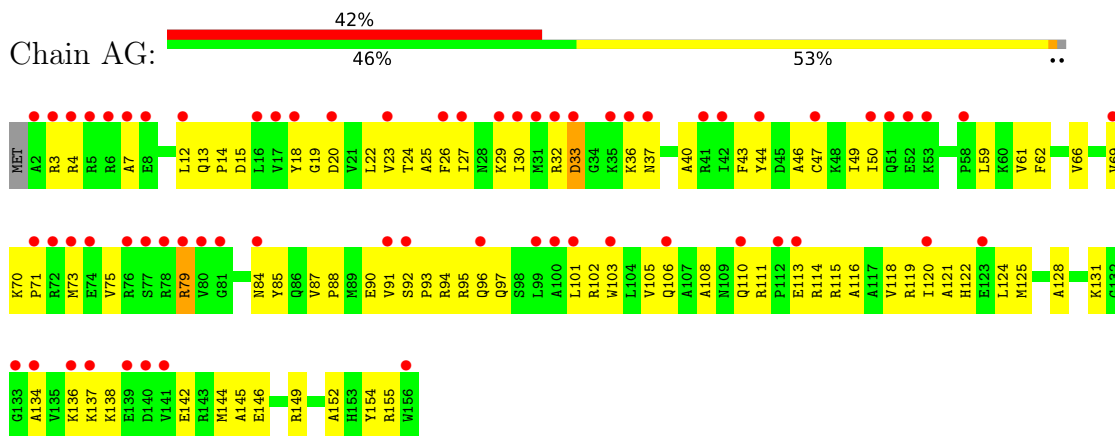
• Molecule 6: 30S ribosomal protein S6



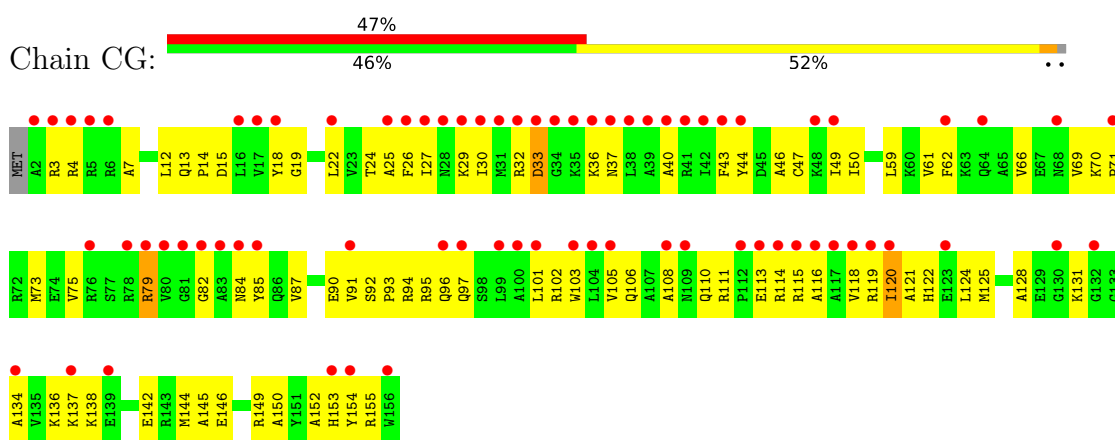
• Molecule 6: 30S ribosomal protein S6



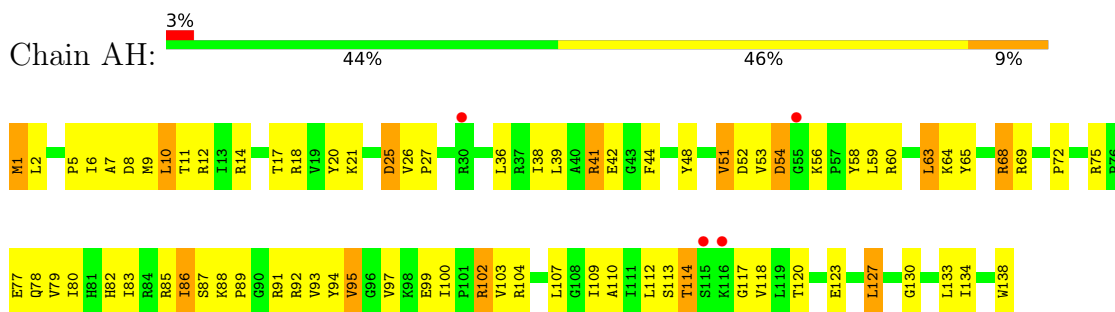
• Molecule 7: 30S ribosomal protein S7



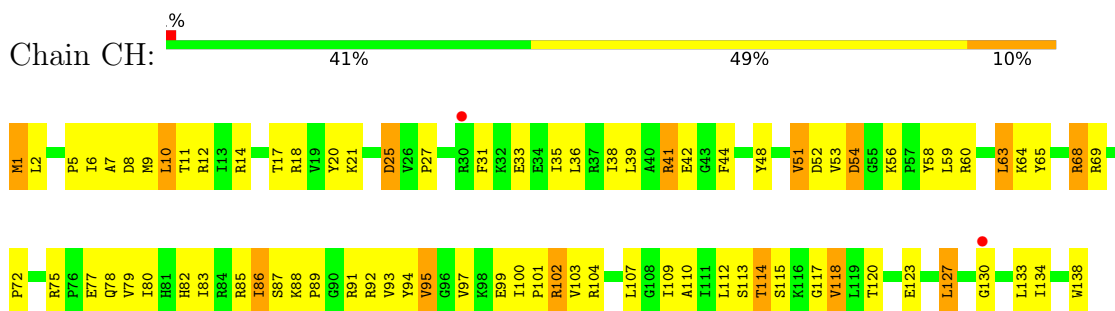
- Molecule 7: 30S ribosomal protein S7



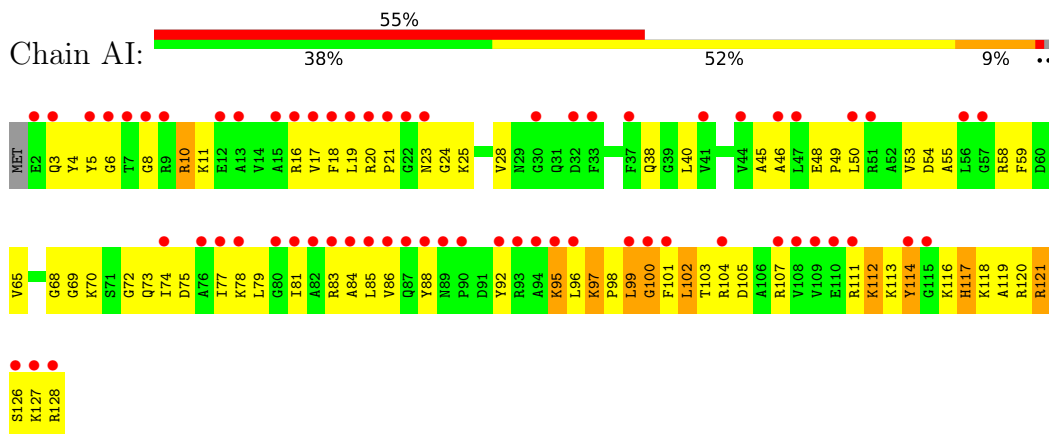
- Molecule 8: 30S ribosomal protein S8



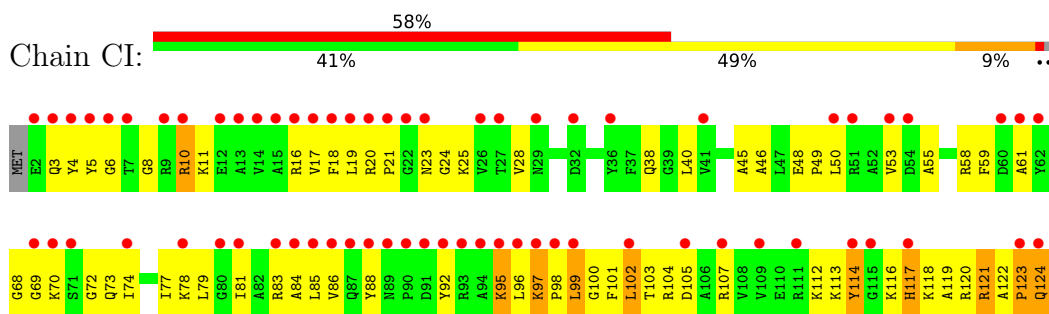
- Molecule 8: 30S ribosomal protein S8



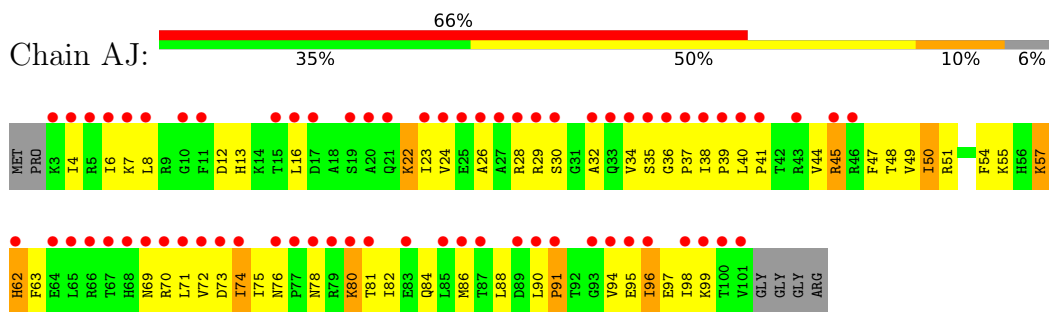
- Molecule 9: 30S ribosomal protein S9



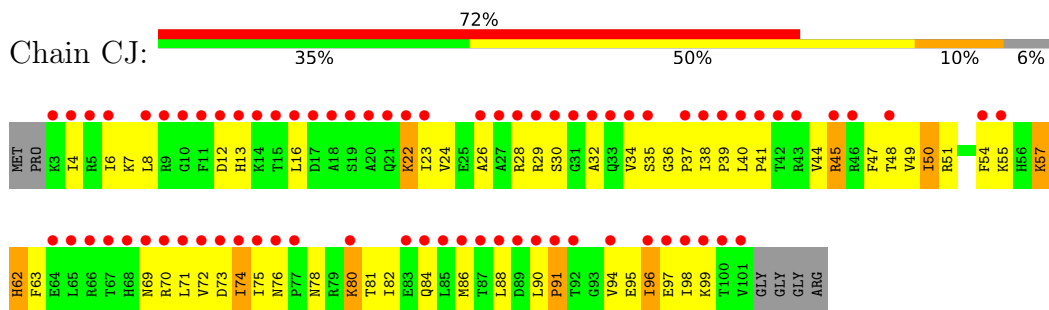
• Molecule 9: 30S ribosomal protein S9



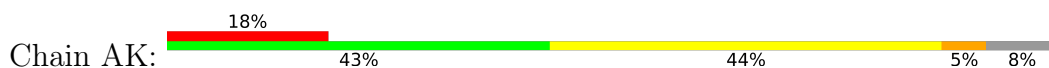
• Molecule 10: 30S ribosomal protein S10

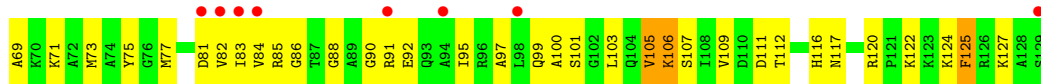
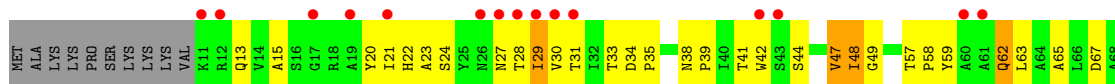


• Molecule 10: 30S ribosomal protein S10

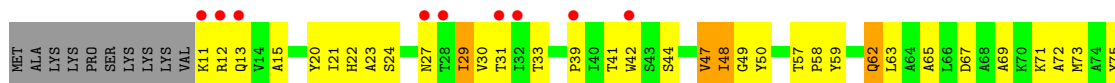


• Molecule 11: 30S ribosomal protein S11

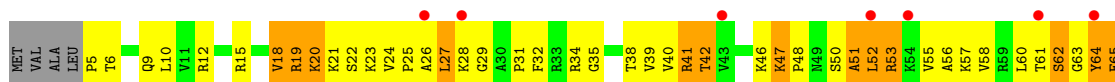




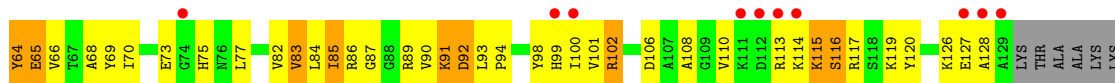
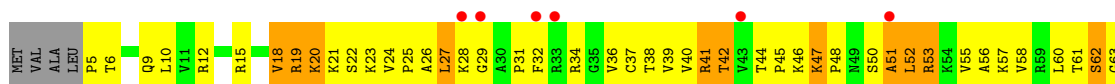
• Molecule 11: 30S ribosomal protein S11



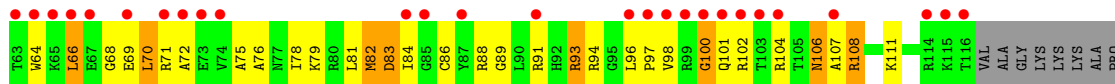
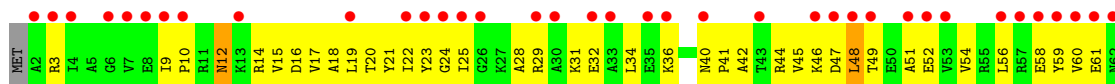
• Molecule 12: 30S ribosomal protein S12



• Molecule 12: 30S ribosomal protein S12

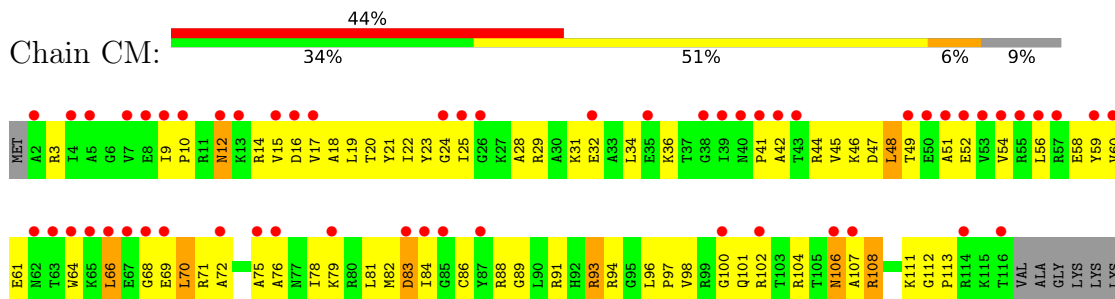


• Molecule 13: 30S ribosomal protein S13

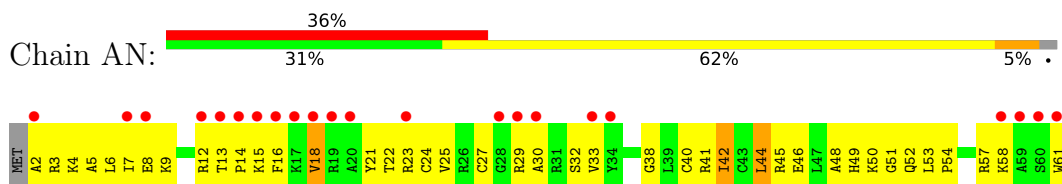


ARG
LYS

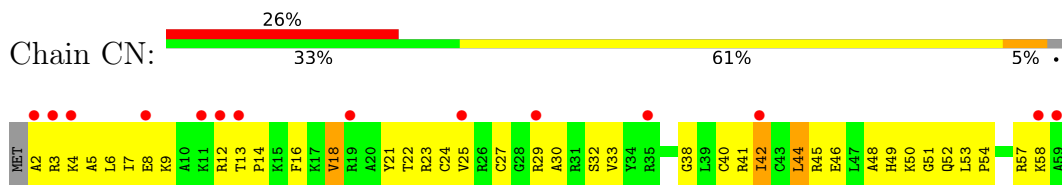
- Molecule 13: 30S ribosomal protein S13

ALA
PRO
ARG
LYS

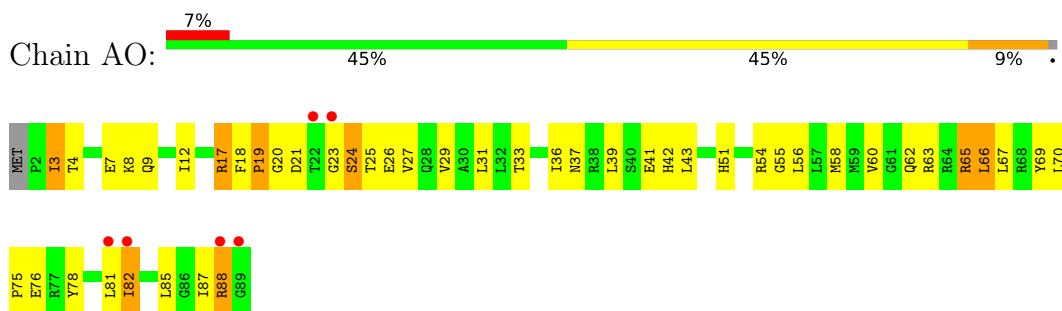
- Molecule 14: 30S ribosomal protein S14



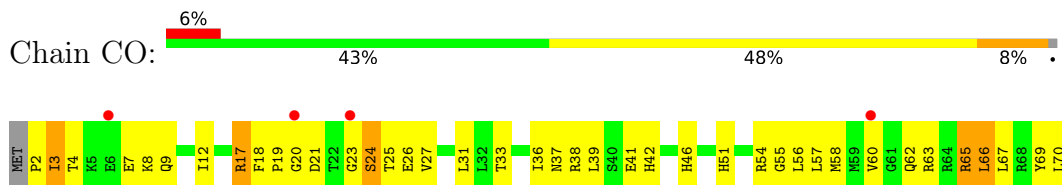
- Molecule 14: 30S ribosomal protein S14



- Molecule 15: 30S ribosomal protein S15

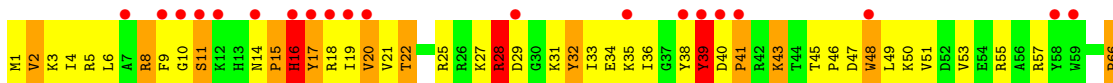


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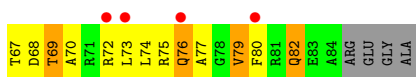
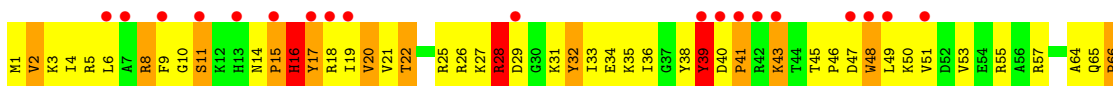




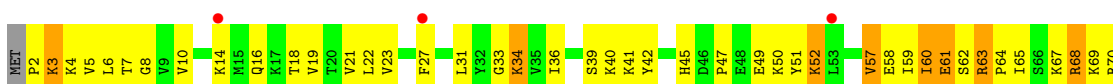
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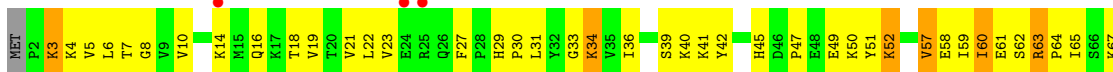
- Molecule 16: 30S ribosomal protein S16



- Molecule 17: 30S ribosomal protein S17

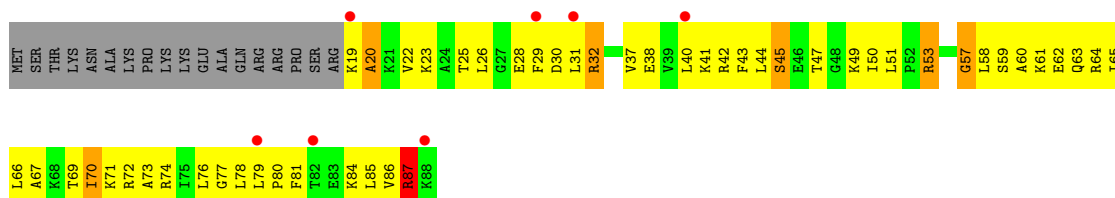


- Molecule 17: 30S ribosomal protein S17

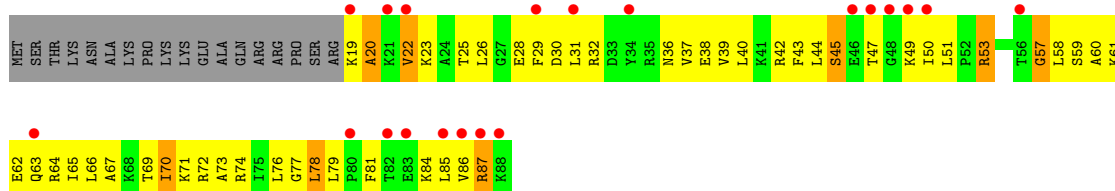


- Molecule 18: 30S ribosomal protein S18

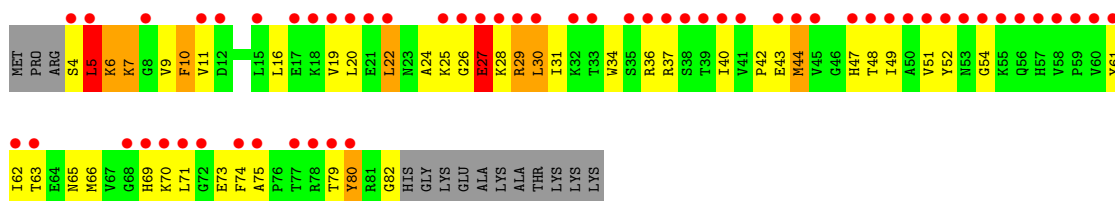




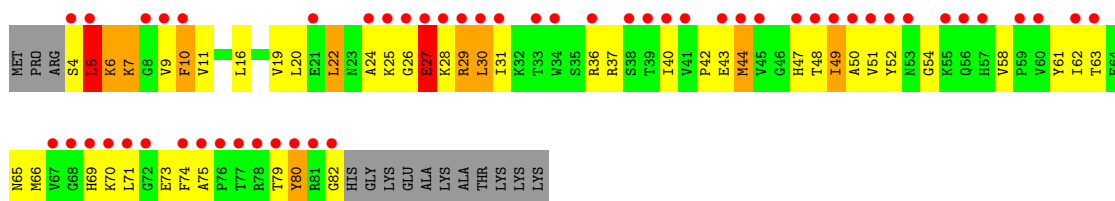
• Molecule 18: 30S ribosomal protein S18



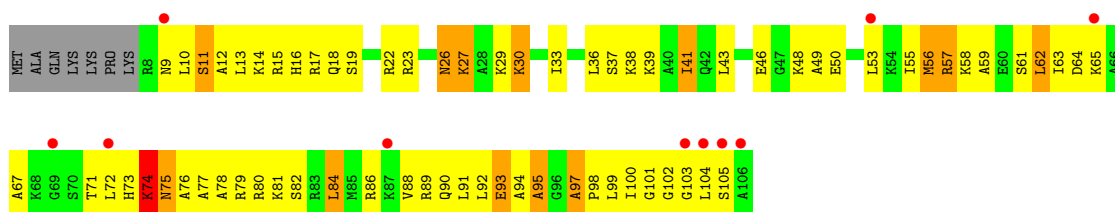
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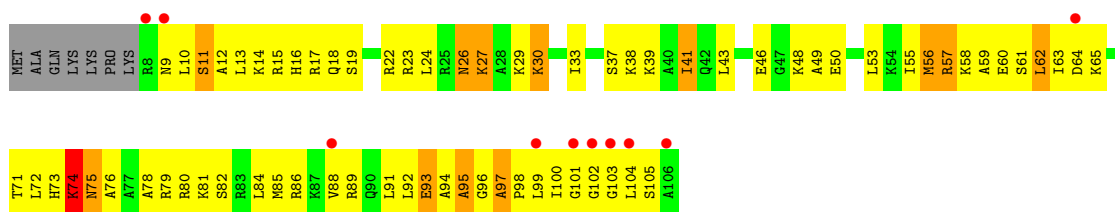
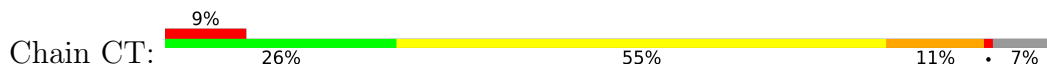
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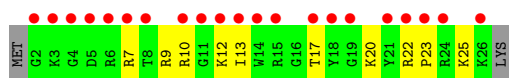
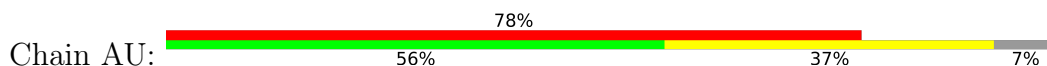
• Molecule 20: 30S ribosomal protein S20



- Molecule 20: 30S ribosomal protein S20



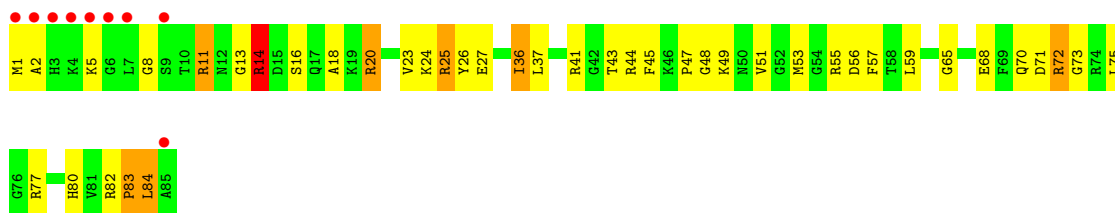
- Molecule 21: 30S ribosomal protein Thx



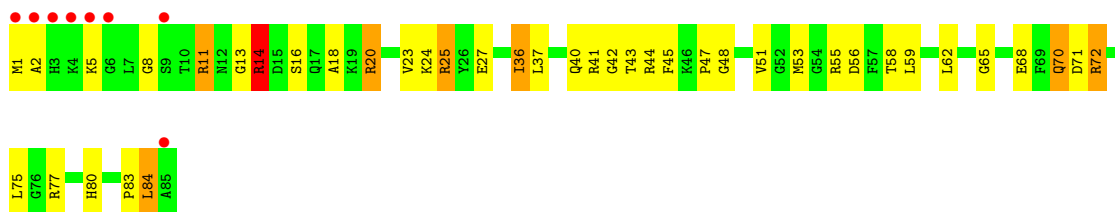
- Molecule 21: 30S ribosomal protein Thx



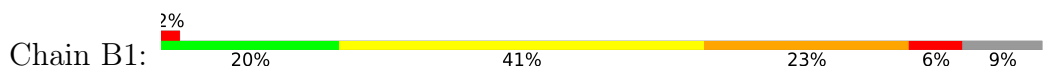
- Molecule 22: 50S ribosomal protein L27

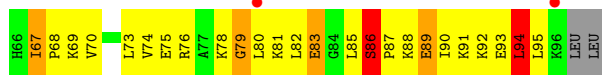
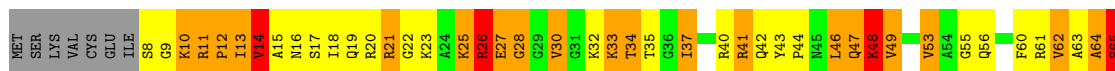


- Molecule 22: 50S ribosomal protein L27

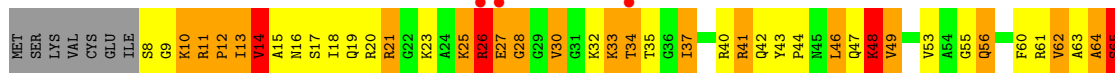
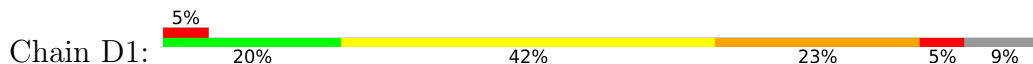


- Molecule 23: 50S ribosomal protein L28

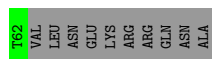
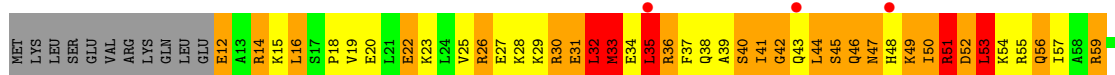




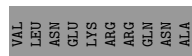
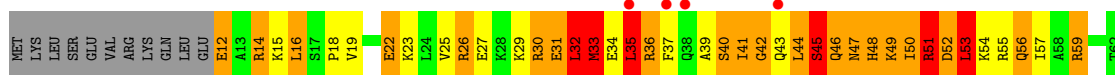
• Molecule 23: 50S ribosomal protein L28



• Molecule 24: 50S ribosomal protein L29



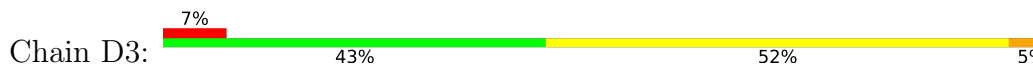
• Molecule 24: 50S ribosomal protein L29



• Molecule 25: 50S ribosomal protein L30

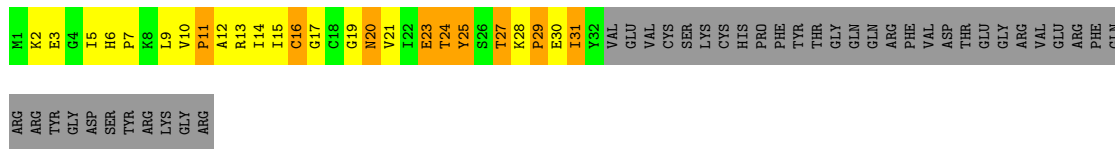
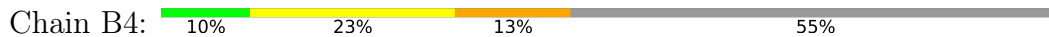


• Molecule 25: 50S ribosomal protein L30

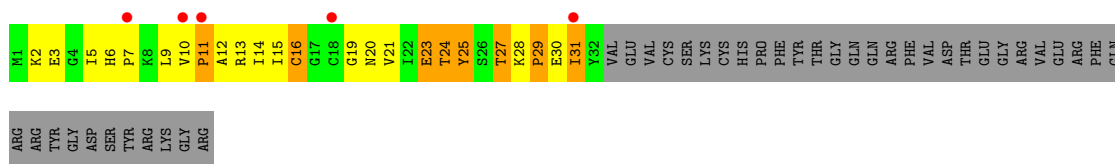
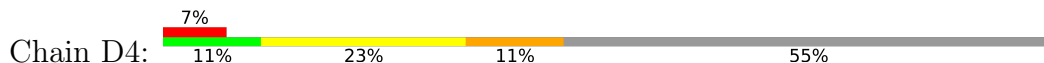




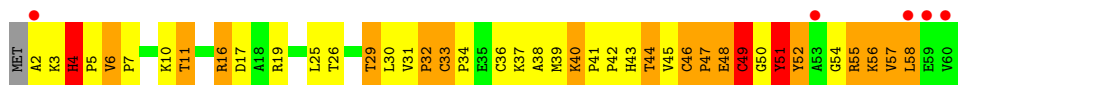
• Molecule 26: 50S ribosomal protein L31



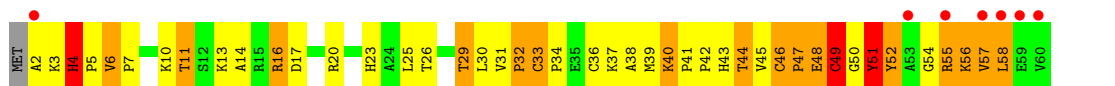
• Molecule 26: 50S ribosomal protein L31



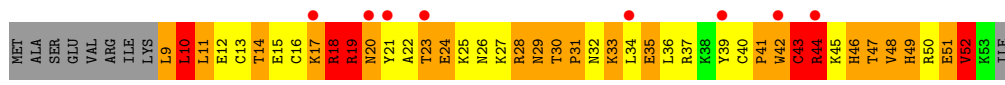
• Molecule 27: 50S ribosomal protein L32



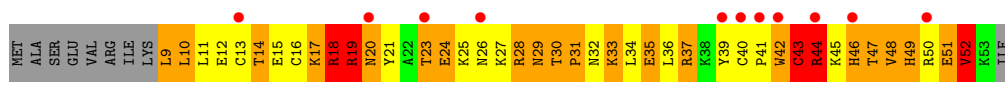
• Molecule 27: 50S ribosomal protein L32



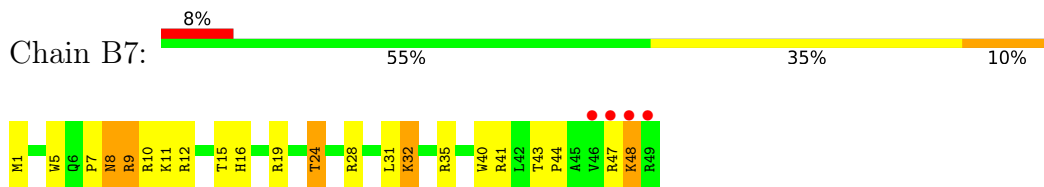
• Molecule 28: 50S ribosomal protein L33



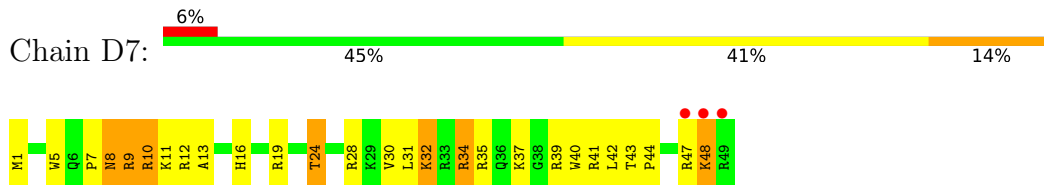
• Molecule 28: 50S ribosomal protein L33



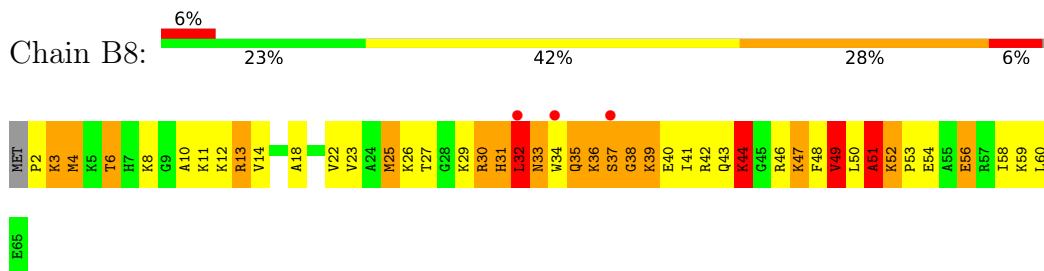
• Molecule 29: 50S ribosomal protein L34



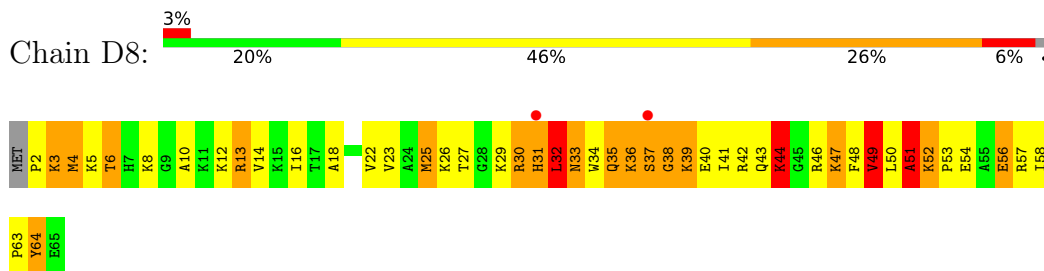
• Molecule 29: 50S ribosomal protein L34



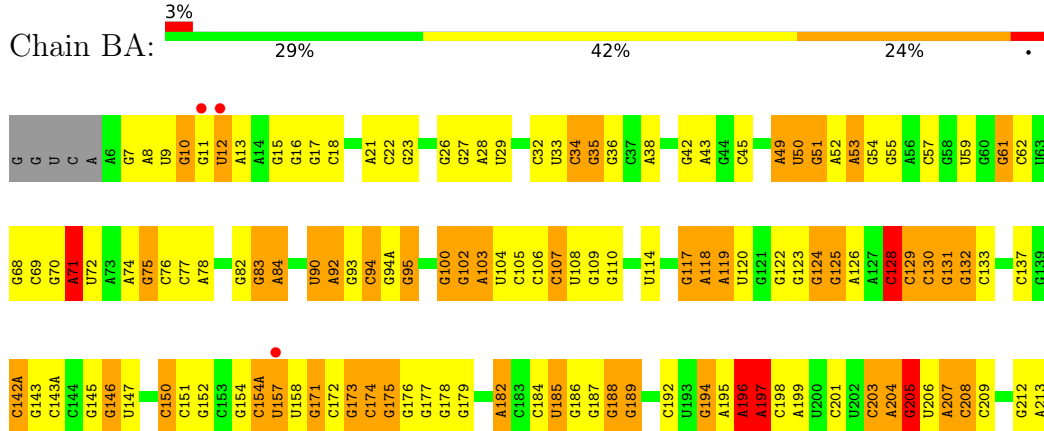
• Molecule 30: 50S ribosomal protein L35

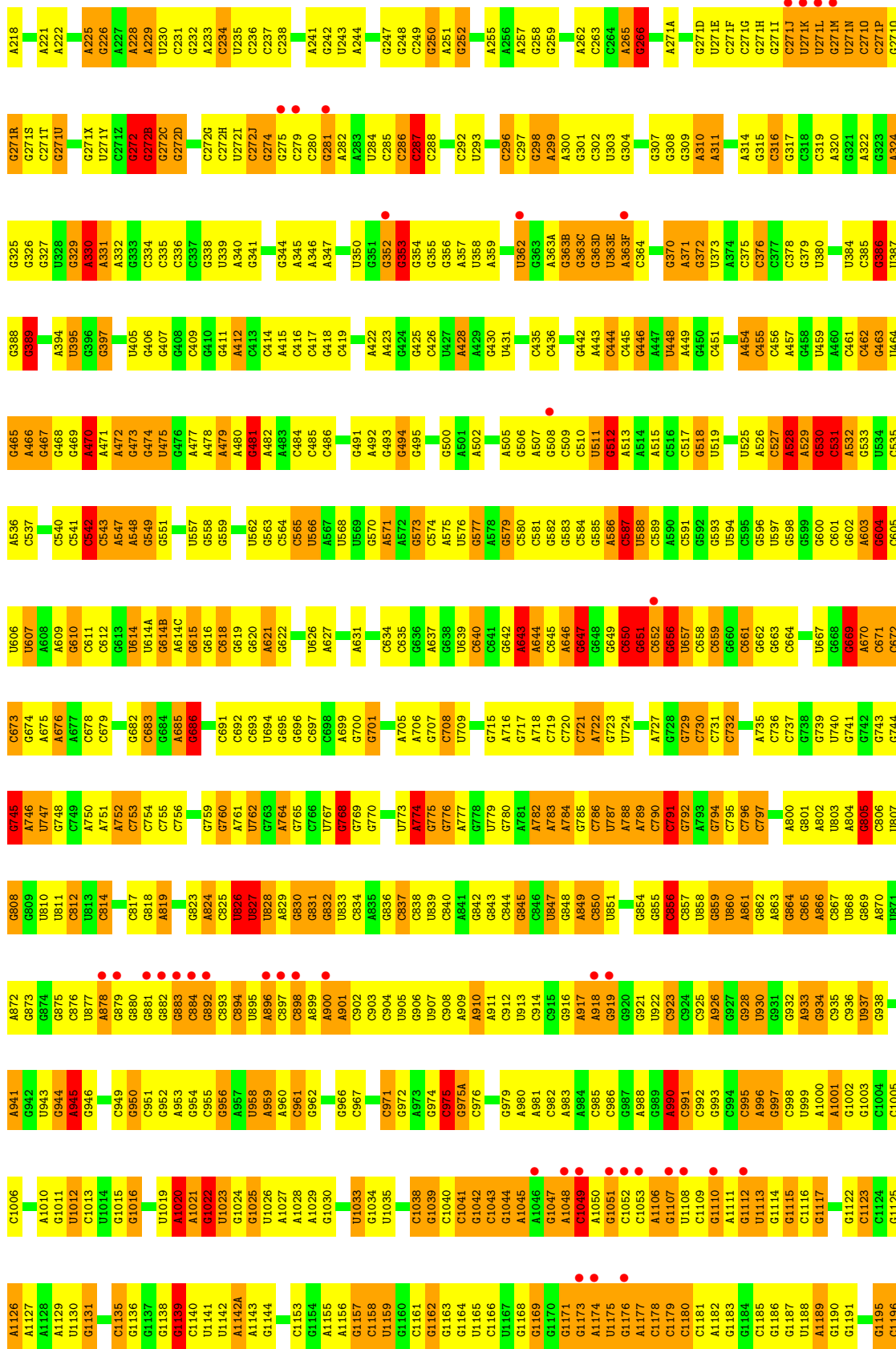


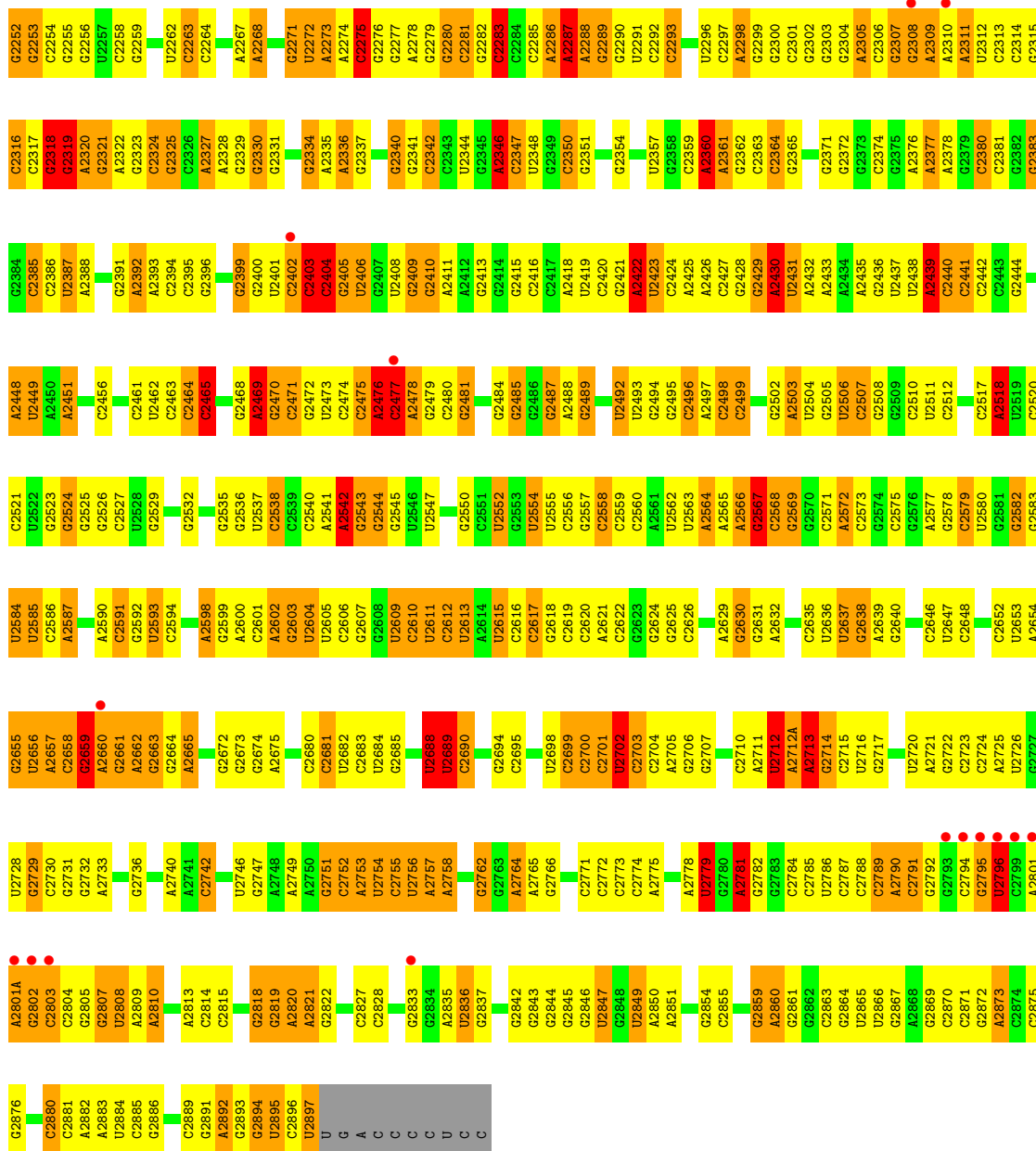
• Molecule 30: 50S ribosomal protein L35



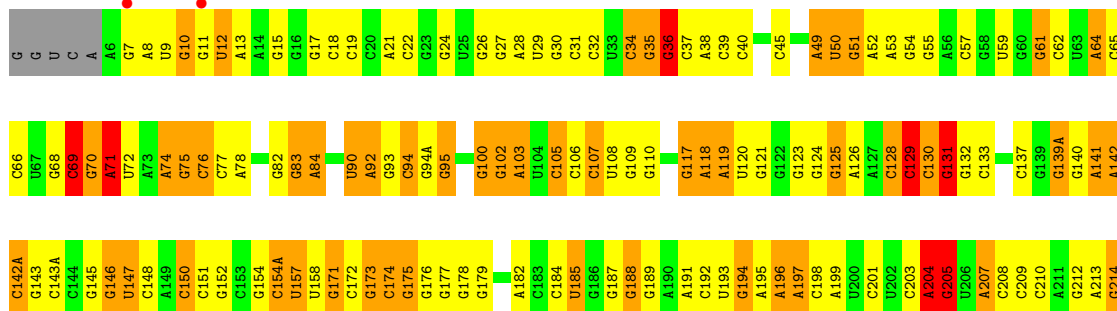
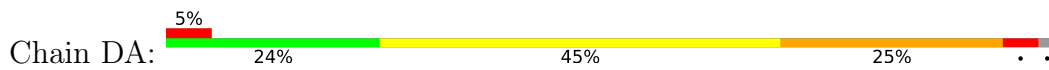
• Molecule 31: 23S ribosomal RNA

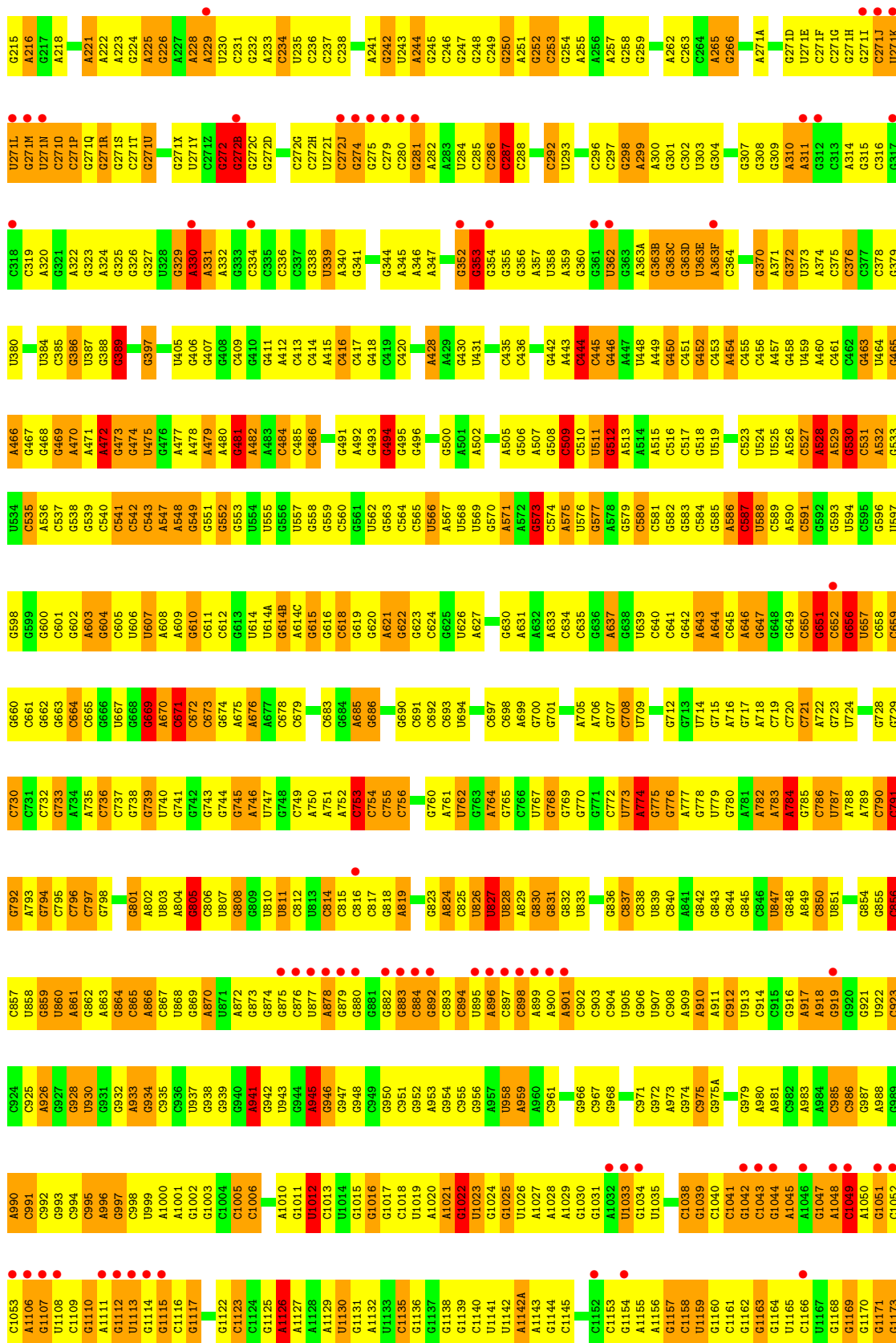




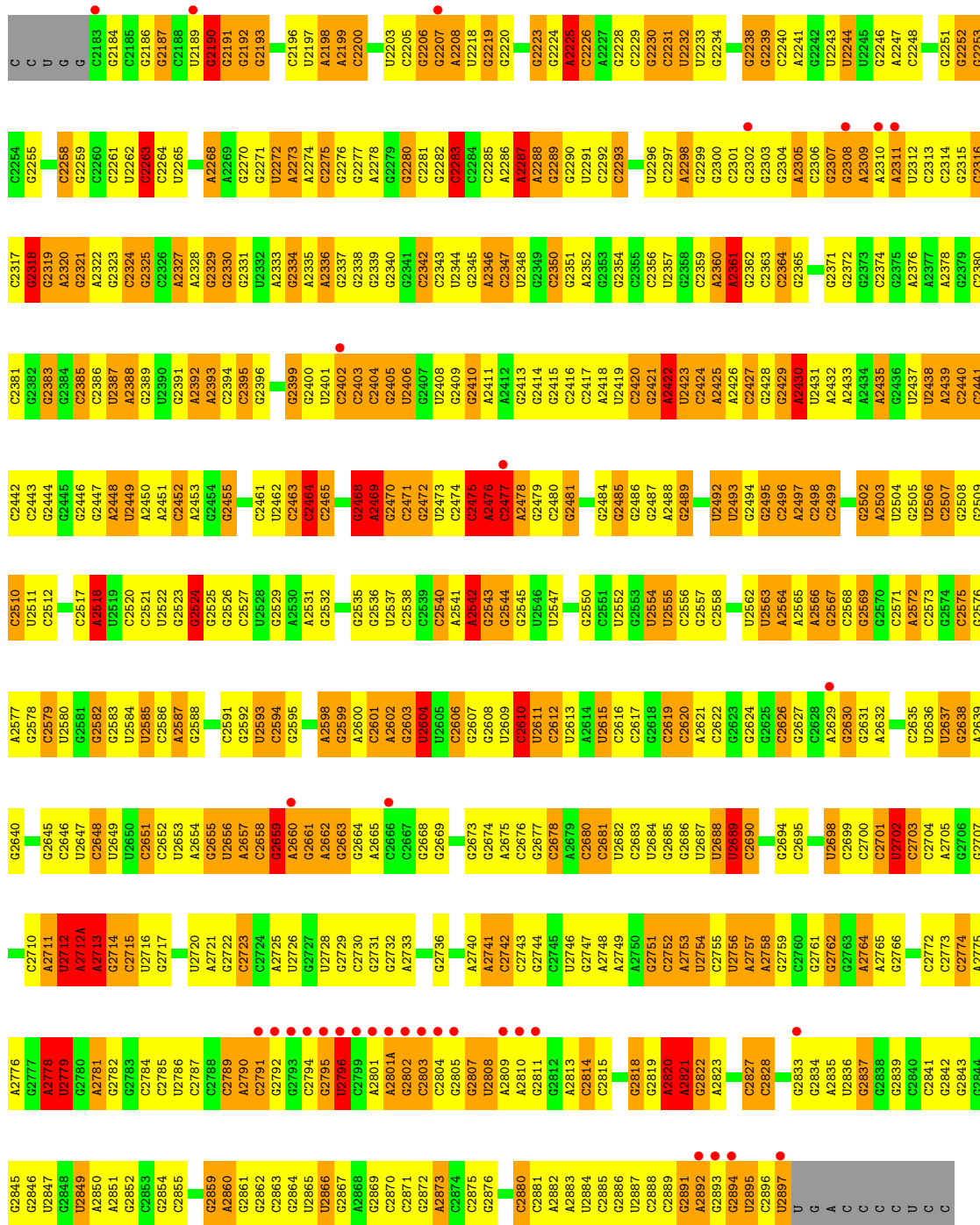


● Molecule 31: 23S ribosomal RNA

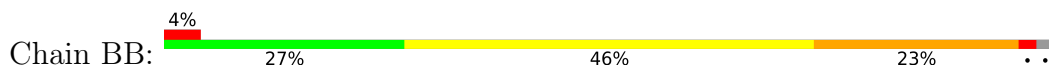


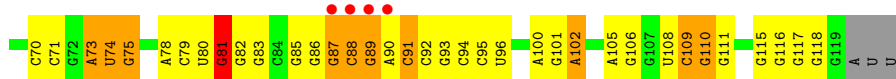


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								A1575	C1503	A1303	A1303	U1240
								A1576	U1503	A1304	A1304	A1241

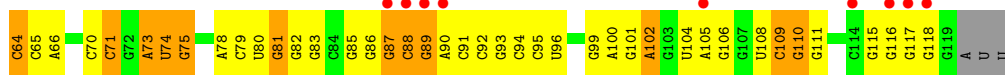
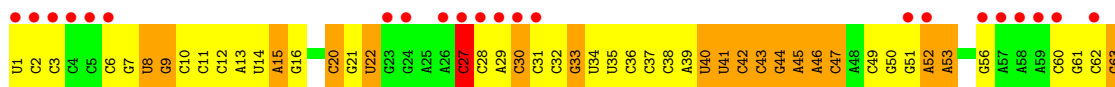


● Molecule 32: 5S ribosomal RNA

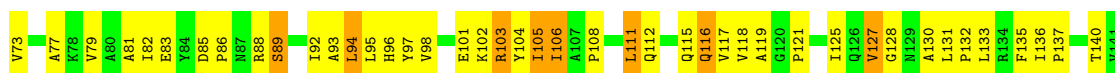




• Molecule 32: 5S ribosomal RNA



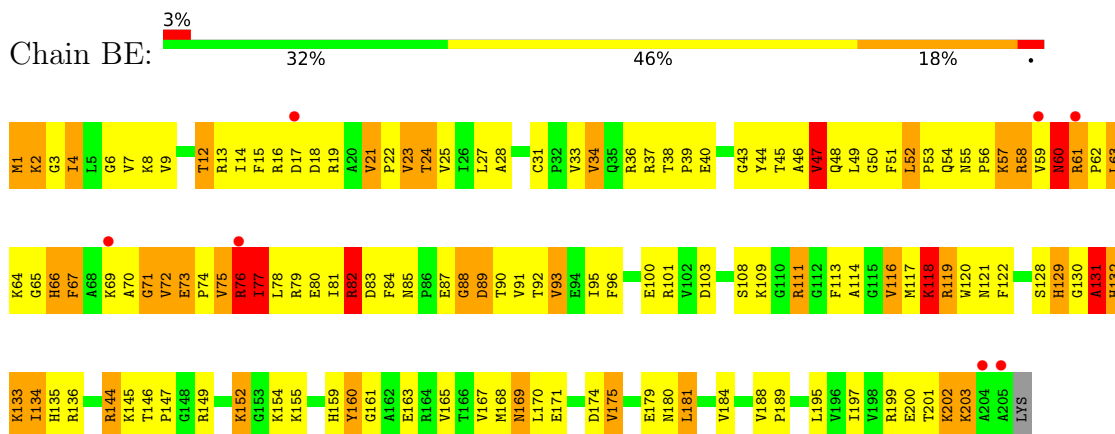
• Molecule 33: 50S ribosomal protein L2



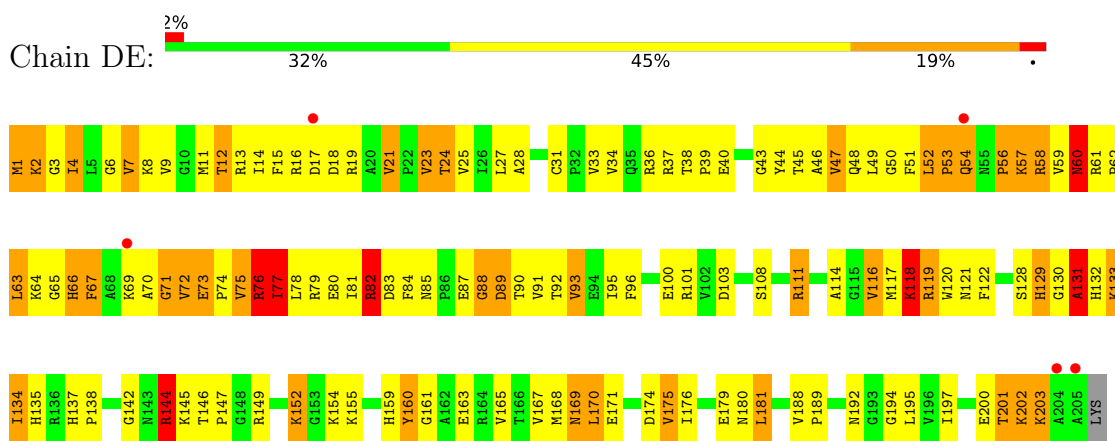
• Molecule 33: 50S ribosomal protein L2



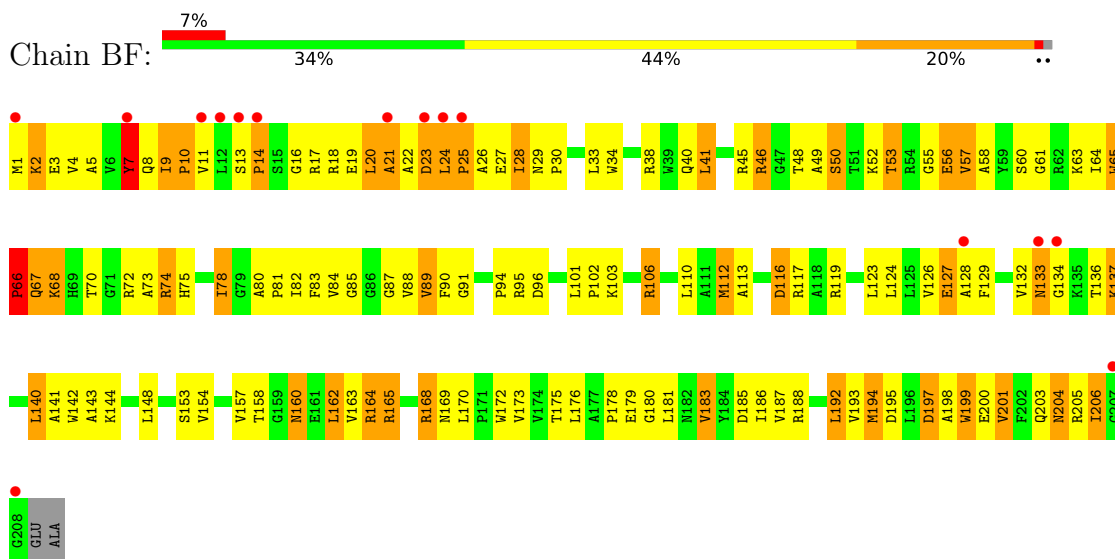
• Molecule 34: 50S ribosomal protein L3



• Molecule 34: 50S ribosomal protein L3

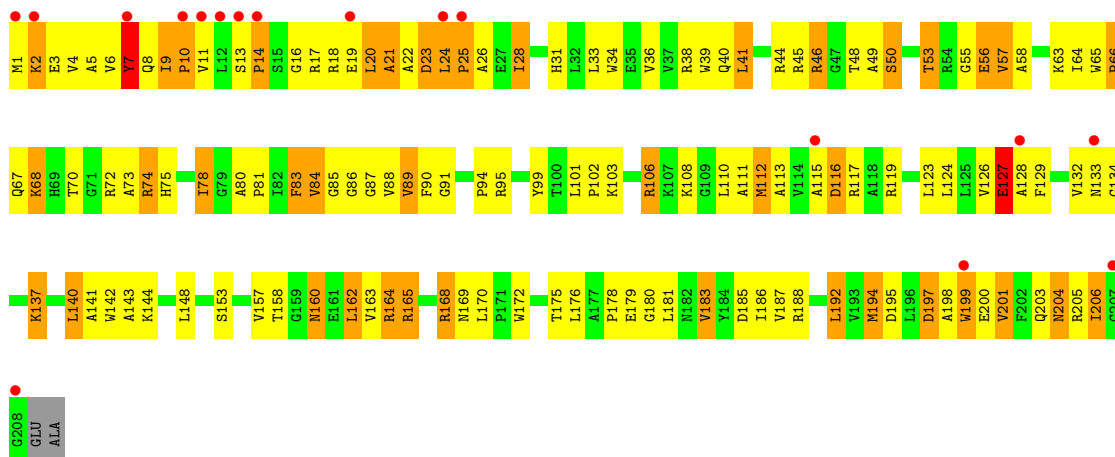


• Molecule 35: 50S ribosomal protein L4

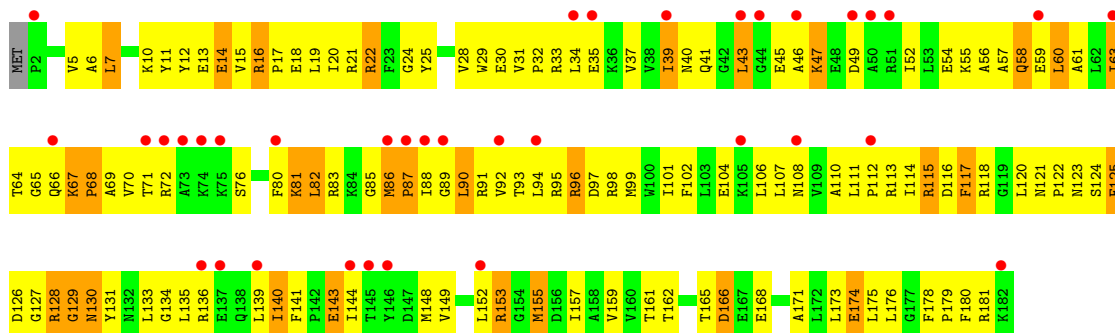


• Molecule 35: 50S ribosomal protein L4

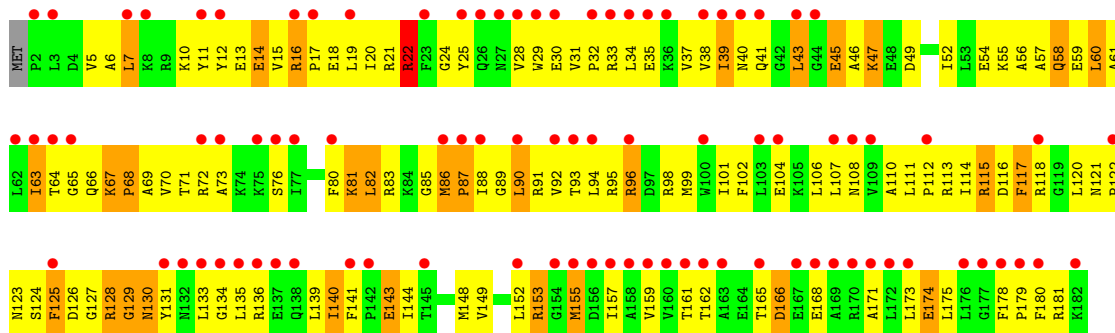




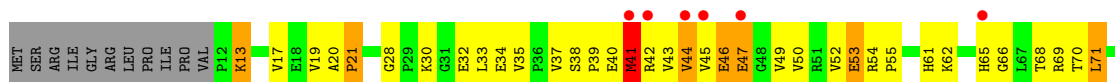
• Molecule 36: 50S ribosomal protein L5

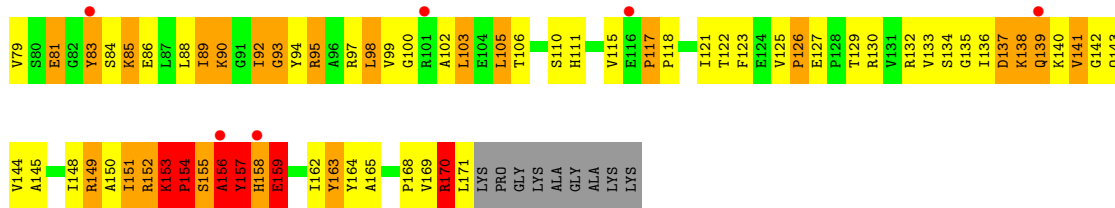


• Molecule 36: 50S ribosomal protein L5

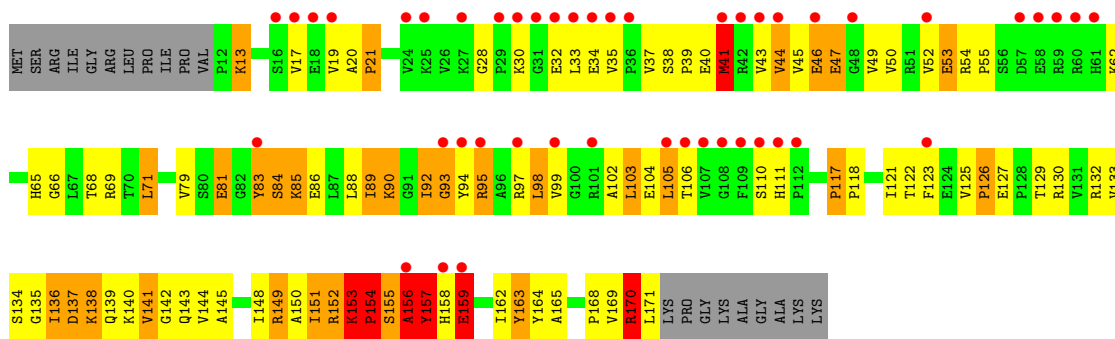


• Molecule 37: 50S ribosomal protein L6

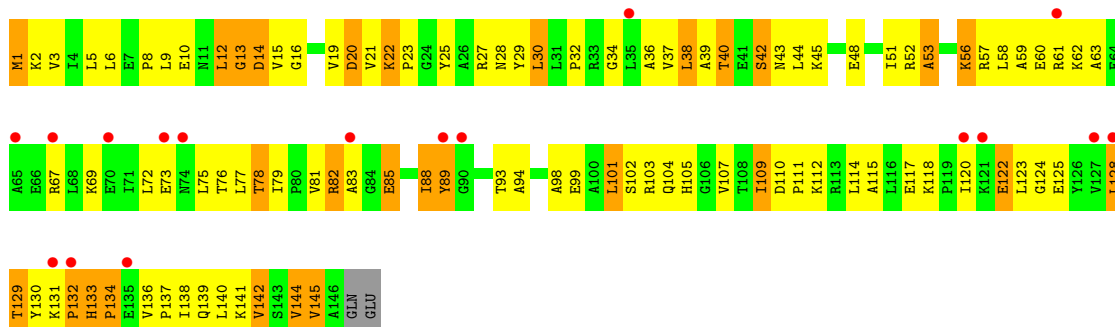




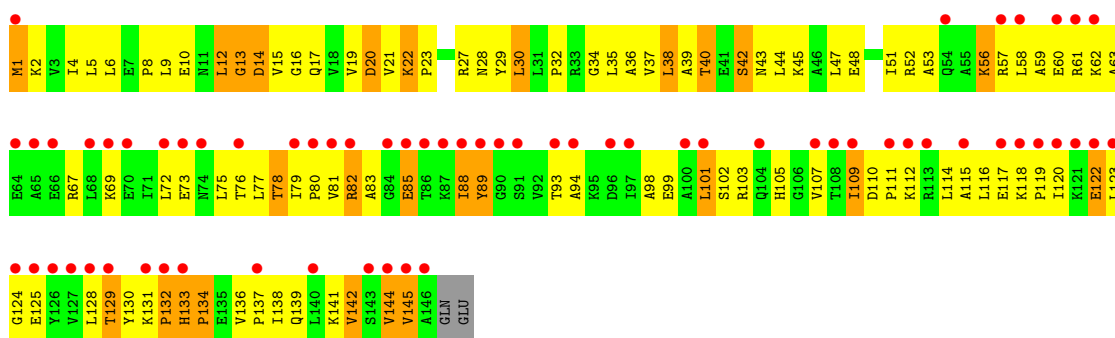
• Molecule 37: 50S ribosomal protein L6



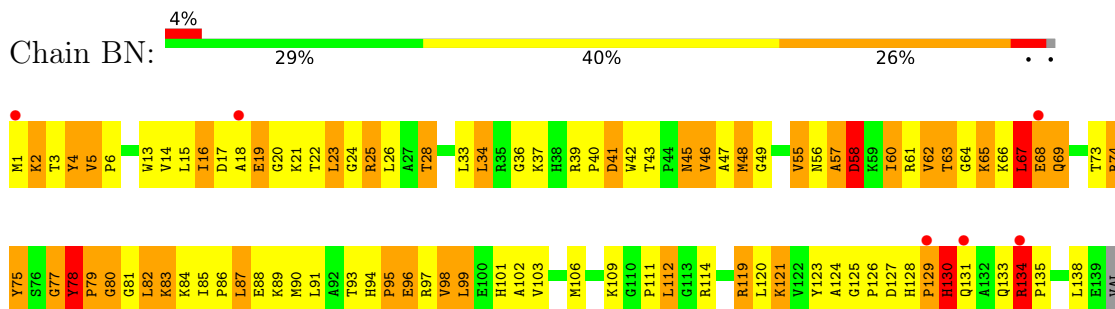
• Molecule 38: 50S ribosomal protein L9



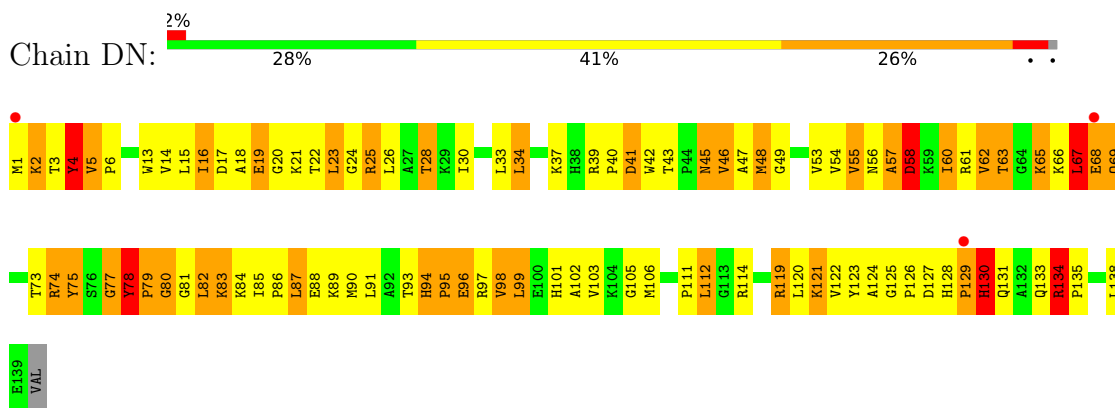
• Molecule 38: 50S ribosomal protein L9



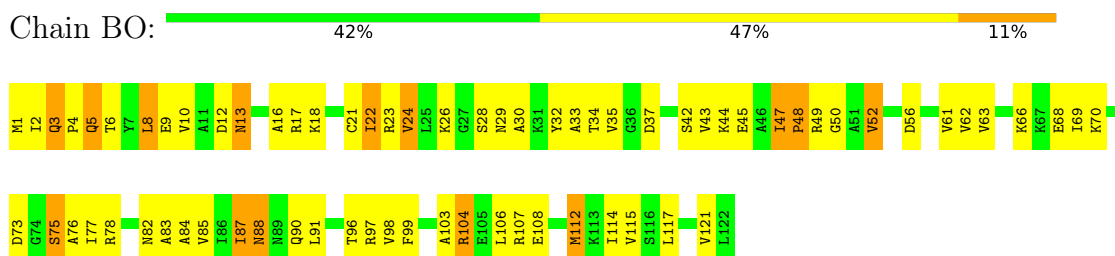
- Molecule 39: 50S ribosomal protein L13



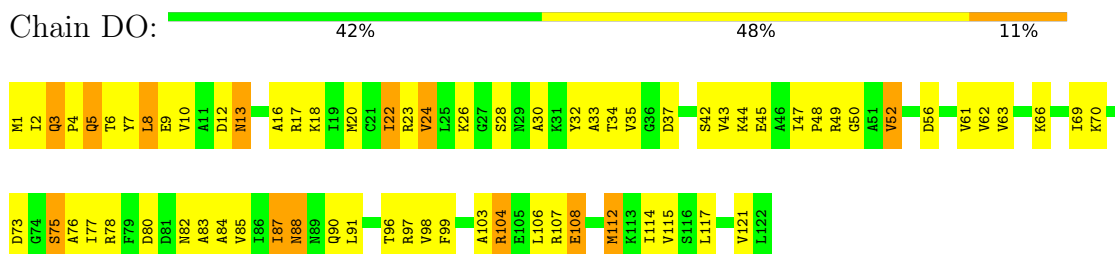
- Molecule 39: 50S ribosomal protein L13



- Molecule 40: 50S ribosomal protein L14

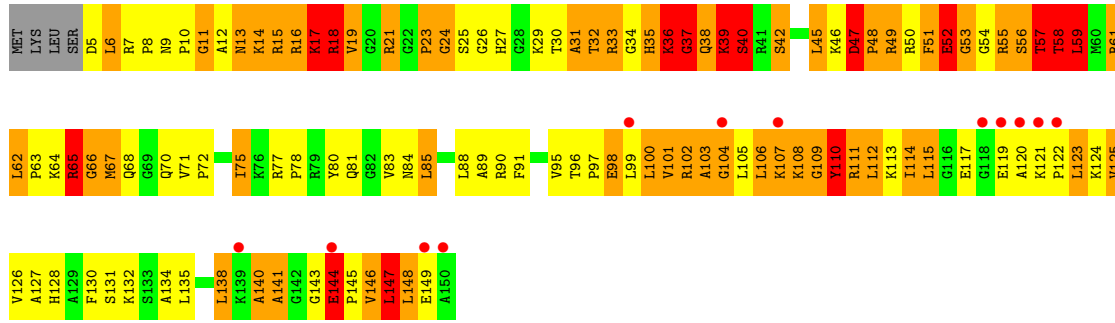


- Molecule 40: 50S ribosomal protein L14

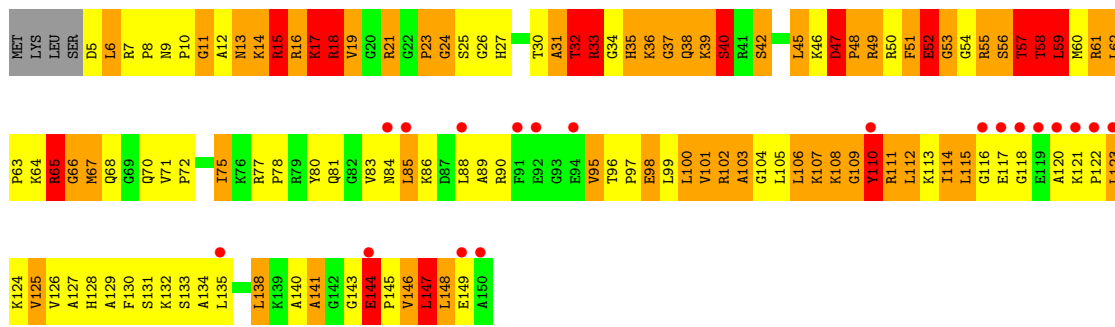
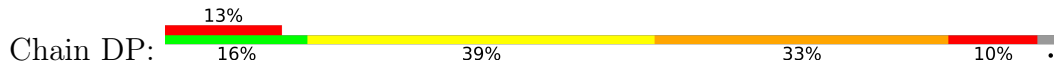


- Molecule 41: 50S ribosomal protein L15

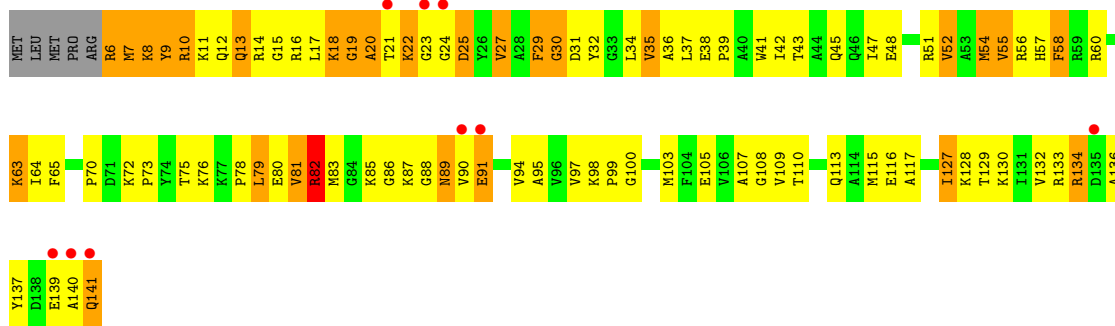




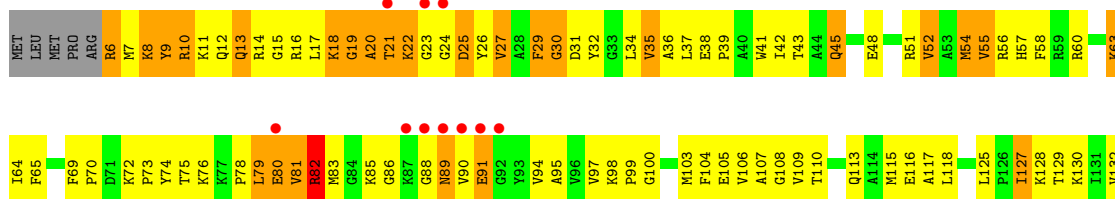
• Molecule 41: 50S ribosomal protein L15



• Molecule 42: 50S ribosomal protein L16



• Molecule 42: 50S ribosomal protein L16





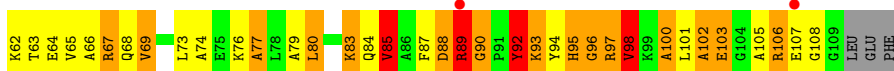
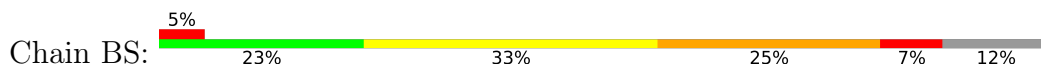
- Molecule 43: 50S ribosomal protein L17



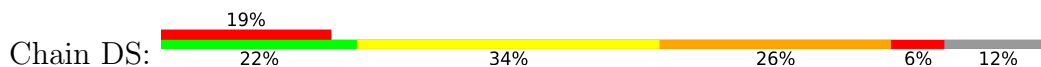
- Molecule 43: 50S ribosomal protein L17



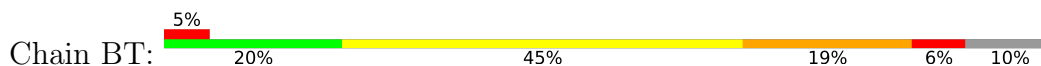
- Molecule 44: 50S ribosomal protein L18

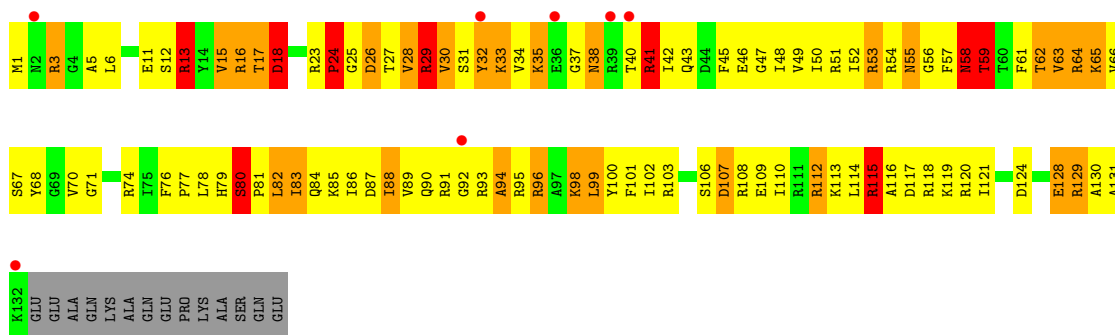


- Molecule 44: 50S ribosomal protein L18

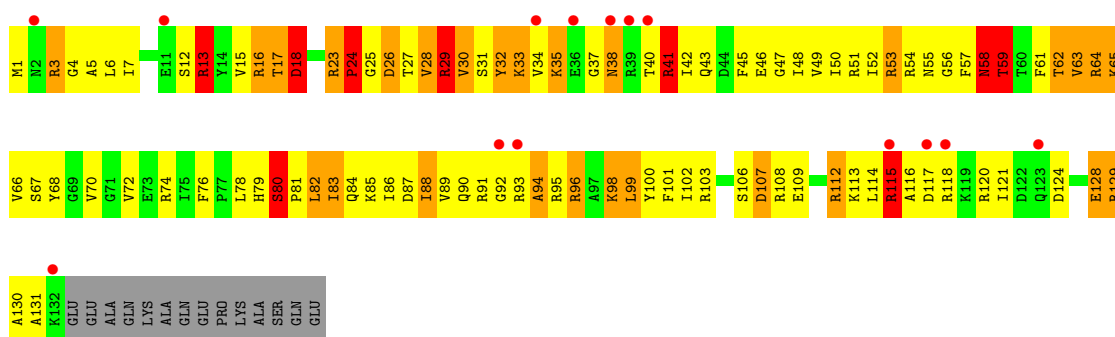
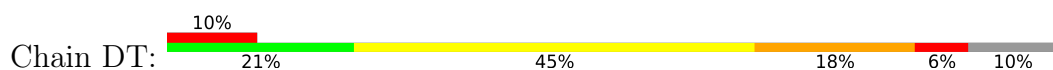


- Molecule 45: 50S ribosomal protein L19

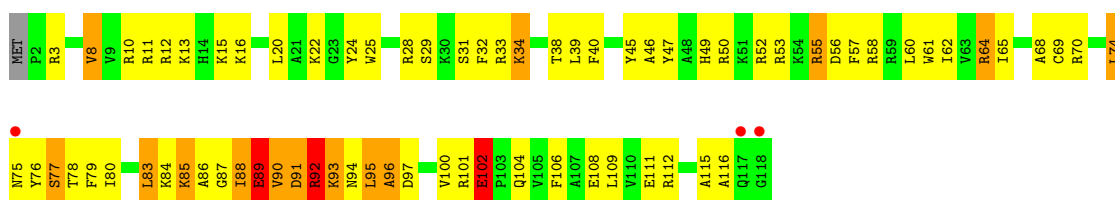




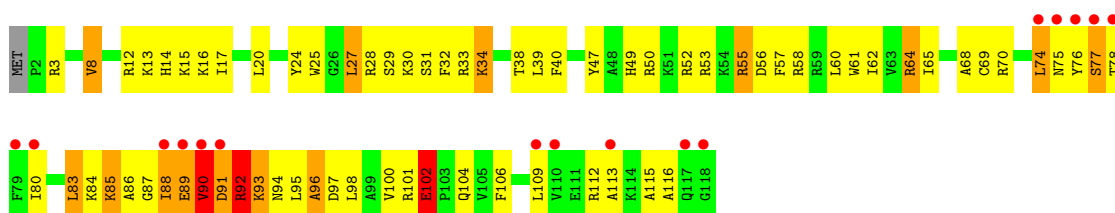
• Molecule 45: 50S ribosomal protein L19



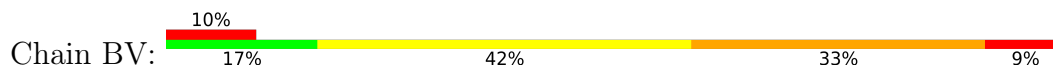
• Molecule 46: 50S ribosomal protein L20

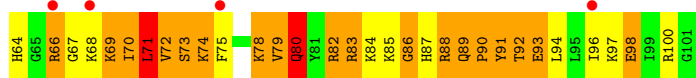
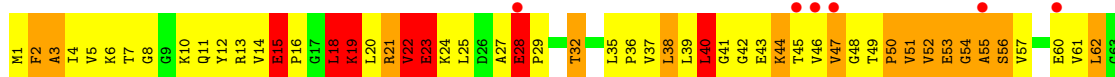


• Molecule 46: 50S ribosomal protein L20

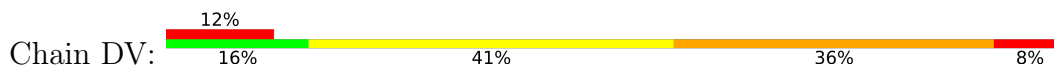


• Molecule 47: 50S ribosomal protein L21

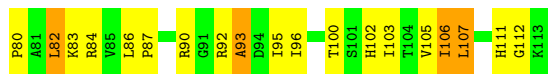




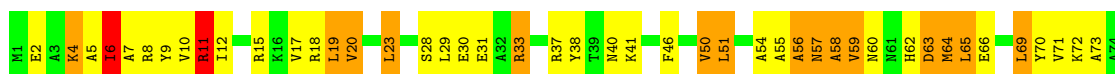
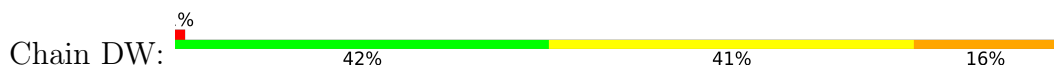
• Molecule 47: 50S ribosomal protein L21



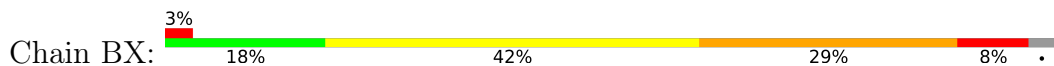
• Molecule 48: 50S ribosomal protein L22



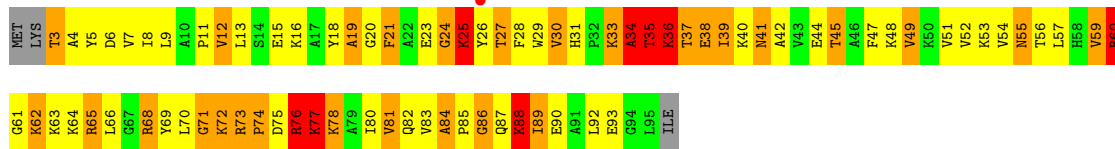
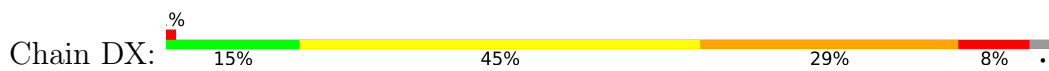
• Molecule 48: 50S ribosomal protein L22



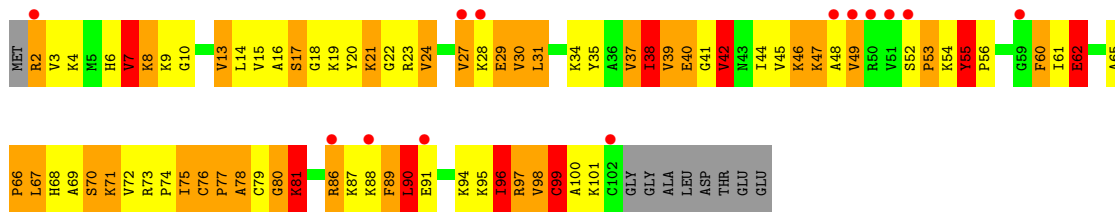
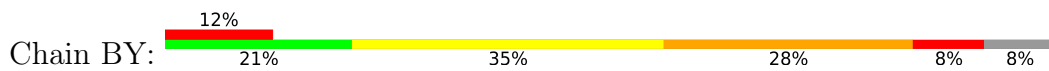
• Molecule 49: 50S ribosomal protein L23



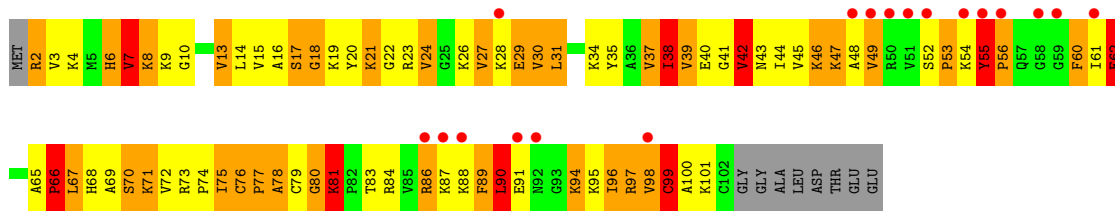
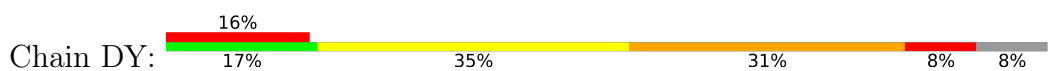
• Molecule 49: 50S ribosomal protein L23



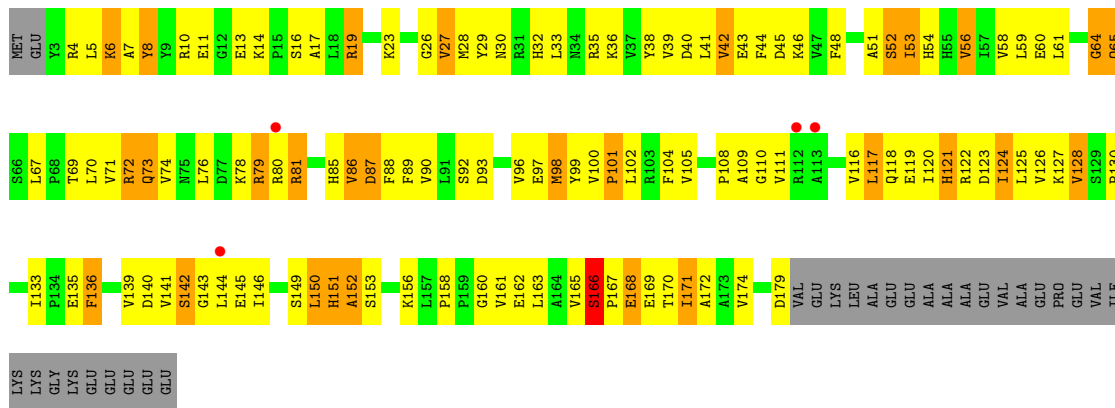
• Molecule 50: 50S ribosomal protein L24



• Molecule 50: 50S ribosomal protein L24

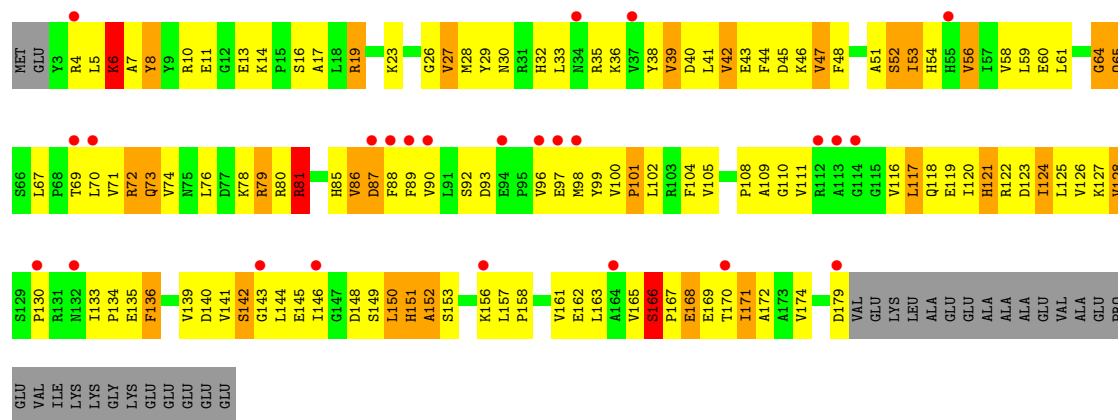


• Molecule 51: 50S ribosomal protein L25



• Molecule 51: 50S ribosomal protein L25





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.47Å 447.96Å 620.17Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.61 – 3.00 49.88 – 3.00	Depositor EDS
% Data completeness (in resolution range)	(Not available) (49.61-3.00) 99.8 (49.88-3.00)	Depositor EDS
R_{merge}	0.27	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.22 (at 3.01Å)	Xtrriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.243 , 0.278 0.239 , 0.272	Depositor DCC
R_{free} test set	57768 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å ²)	66.5	Xtrriage
Anisotropy	0.273	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.26 , 86.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.88	EDS
Total number of atoms	278034	wwPDB-VP
Average B, all atoms (Å ²)	93.0	wwPDB-VP

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

¹Intensities estimated from amplitudes.

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

5 Model quality i

5.1 Standard geometry i

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

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	0.49	0/36190	0.86	24/56486 (0.0%)
1	CA	0.49	0/36190	0.87	35/56486 (0.1%)
2	AB	0.28	0/1936	0.49	0/2611
2	CB	0.28	0/1936	0.49	0/2611
3	AC	0.26	0/1637	0.46	0/2207
3	CC	0.26	0/1637	0.45	0/2207
4	AD	0.34	0/1733	0.52	0/2318
4	CD	0.35	0/1733	0.53	0/2318
5	AE	0.32	0/1163	0.52	0/1566
5	CE	0.33	0/1163	0.54	0/1566
6	AF	0.33	0/856	0.53	0/1154
6	CF	0.33	0/856	0.53	0/1154
7	AG	0.24	0/1276	0.43	0/1709
7	CG	0.24	0/1276	0.43	0/1709
8	AH	0.33	0/1136	0.54	0/1527
8	CH	0.31	0/1136	0.53	0/1527
9	AI	0.26	0/1028	0.42	0/1375
9	CI	0.26	0/1028	0.42	0/1375
10	AJ	0.27	0/808	0.46	0/1087
10	CJ	0.27	0/808	0.47	0/1087
11	AK	0.31	0/900	0.52	0/1213
11	CK	0.32	0/900	0.53	0/1213
12	AL	0.39	0/987	0.61	0/1322
12	CL	0.41	0/987	0.61	0/1322
13	AM	0.24	0/928	0.45	0/1238
13	CM	0.25	0/928	0.45	0/1238
14	AN	0.28	0/501	0.43	0/664
14	CN	0.27	0/501	0.43	0/664
15	AO	0.34	0/745	0.53	0/992
15	CO	0.33	0/745	0.52	0/992
16	AP	0.32	0/717	0.54	0/965
16	CP	0.31	0/717	0.55	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.34	0/837	0.53	0/1119
17	CQ	0.33	0/837	0.53	0/1119
18	AR	0.33	0/579	0.57	0/768
18	CR	0.32	0/579	0.56	0/768
19	AS	0.25	0/643	0.42	0/867
19	CS	0.25	0/643	0.42	0/867
20	AT	0.35	0/765	0.55	0/1007
20	CT	0.34	0/765	0.55	0/1007
21	AU	0.26	0/213	0.42	0/279
21	CU	0.26	0/213	0.42	0/279
22	B0	0.52	0/658	0.70	0/878
22	D0	0.52	0/658	0.70	0/878
23	B1	0.76	0/700	1.02	2/931 (0.2%)
23	D1	0.73	0/700	0.99	2/931 (0.2%)
24	B2	0.65	0/423	0.99	1/560 (0.2%)
24	D2	0.57	0/423	0.92	1/560 (0.2%)
25	B3	0.61	0/473	0.71	0/636
25	D3	0.48	0/473	0.68	0/636
26	B4	0.28	0/156	0.57	0/215
26	D4	0.27	0/156	0.55	0/215
27	B5	0.85	0/473	1.06	3/639 (0.5%)
27	D5	0.78	0/473	1.01	3/639 (0.5%)
28	B6	0.80	0/387	1.04	2/517 (0.4%)
28	D6	0.67	0/387	0.94	0/517
29	B7	0.63	0/427	0.84	0/563
29	D7	0.64	0/427	0.83	1/563 (0.2%)
30	B8	0.73	0/516	1.07	3/681 (0.4%)
30	D8	0.65	0/516	1.03	3/681 (0.4%)
31	BA	1.06	67/65745 (0.1%)	1.40	967/102639 (0.9%)
31	DA	0.87	39/65745 (0.1%)	1.40	970/102639 (0.9%)
32	BB	0.80	0/2853	1.13	12/4451 (0.3%)
32	DB	0.69	0/2853	1.13	20/4451 (0.4%)
33	BD	0.63	0/2155	0.84	1/2907 (0.0%)
33	DD	0.60	0/2155	0.83	0/2907
34	BE	0.62	0/1597	0.83	2/2155 (0.1%)
34	DE	0.55	0/1597	0.81	0/2155
35	BF	0.61	1/1659 (0.1%)	0.76	1/2246 (0.0%)
35	DF	0.52	0/1659	0.76	2/2246 (0.1%)
36	BG	0.31	0/1498	0.53	0/2013
36	DG	0.29	0/1498	0.52	0/2013
37	BH	0.60	0/1246	0.73	0/1684
37	DH	0.42	0/1246	0.68	0/1684
38	BI	0.35	0/1147	0.59	0/1553

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DI	0.38	0/1147	0.59	0/1553
39	BN	0.72	0/1132	0.90	1/1527 (0.1%)
39	DN	0.57	0/1132	0.86	1/1527 (0.1%)
40	BO	0.59	1/943 (0.1%)	0.70	0/1269
40	DO	0.51	0/943	0.69	0/1269
41	BP	0.73	0/1131	1.07	9/1504 (0.6%)
41	DP	0.64	0/1131	1.00	5/1504 (0.3%)
42	BQ	0.69	0/1100	0.85	2/1470 (0.1%)
42	DQ	0.61	0/1100	0.85	2/1470 (0.1%)
43	BR	0.63	0/974	0.85	2/1302 (0.2%)
43	DR	0.57	0/974	0.84	2/1302 (0.2%)
44	BS	0.51	0/779	0.79	0/1038
44	DS	0.45	0/779	0.76	0/1038
45	BT	0.58	0/1114	0.86	1/1488 (0.1%)
45	DT	0.55	0/1114	0.85	2/1488 (0.1%)
46	BU	0.69	0/975	0.79	0/1297
46	DU	0.55	0/975	0.79	0/1297
47	BV	0.75	0/790	0.97	1/1057 (0.1%)
47	DV	0.60	0/790	0.92	1/1057 (0.1%)
48	BW	0.69	0/907	0.85	2/1216 (0.2%)
48	DW	0.60	0/907	0.82	2/1216 (0.2%)
49	BX	0.74	0/740	0.97	2/995 (0.2%)
49	DX	0.65	0/740	0.96	1/995 (0.1%)
50	BY	0.67	0/789	0.86	0/1053
50	DY	0.56	0/789	0.81	0/1053
51	BZ	0.45	0/1436	0.64	1/1951 (0.1%)
51	DZ	0.40	0/1436	0.63	1/1951 (0.1%)
All	All	0.74	108/301002 (0.0%)	1.11	2093/449818 (0.5%)

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
23	B1	0	1
23	D1	0	1
27	B5	0	1
27	D5	0	1
30	B8	0	1
30	D8	0	1
31	BA	21	0

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Mol	Chain	#Chirality outliers	#Planarity outliers
31	DA	21	0
33	BD	0	2
33	DD	0	2
34	BE	0	2
34	DE	0	2
37	BH	0	2
37	DH	0	2
41	BP	0	5
41	DP	0	3
42	BQ	0	1
42	DQ	0	1
43	BR	0	2
43	DR	0	2
44	BS	0	1
44	DS	0	1
45	BT	0	1
45	DT	0	1
46	BU	0	1
46	DU	0	1
47	BV	0	1
47	DV	0	1
49	BX	0	5
49	DX	0	5
All	All	42	50

The worst 5 of 108 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	BA	783	A	N9-C4	-14.89	1.28	1.37
31	BA	783	A	N3-C4	-11.41	1.28	1.34
31	BA	669	G	C4'-C3'	-11.35	1.40	1.53
31	BA	1300	U	C4'-C3'	-10.54	1.41	1.53
31	DA	783	A	N9-C4	-10.54	1.31	1.37

The worst 5 of 2093 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
31	BA	1332	G	N3-C4-C5	21.05	139.12	128.60
31	BA	1332	G	N3-C4-N9	-19.19	114.49	126.00
31	DA	1779	U	C5-C6-N1	-16.63	114.39	122.70
31	BA	1332	G	C2-N3-C4	-16.06	103.87	111.90
31	BA	1779	U	C5-C6-N1	-15.89	114.75	122.70

5 of 42 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
31	BA	100	G	C1'
31	BA	472	A	C3'
31	BA	669	G	C1',C4',C3'
31	BA	945	A	C1'
31	BA	1300	U	C1',C4',C3'

5 of 50 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
23	B1	30	VAL	Peptide
27	B5	51	TYR	Peptide
30	B8	51	ALA	Peptide
33	BD	197	GLY	Peptide
33	BD	47	GLY	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16318	1467	0
1	CA	32329	0	16318	1441	0
2	AB	1901	0	1951	186	0
2	CB	1901	0	1951	185	0
3	AC	1613	0	1677	120	0
3	CC	1613	0	1677	126	0
4	AD	1703	0	1763	184	0
4	CD	1703	0	1764	184	0
5	AE	1147	0	1207	99	0
5	CE	1147	0	1207	103	0
6	AF	843	0	857	92	0
6	CF	843	0	857	92	0
7	AG	1257	0	1296	72	0
7	CG	1257	0	1296	77	0
8	AH	1116	0	1177	91	0
8	CH	1116	0	1177	95	0
9	AI	1011	0	1042	99	0
9	CI	1011	0	1042	96	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
10	AJ	795	0	840	88	0
10	CJ	795	0	840	85	0
11	AK	885	0	904	59	0
11	CK	885	0	904	65	0
12	AL	971	0	1057	102	0
12	CL	971	0	1057	103	0
13	AM	921	0	976	81	0
13	CM	921	0	976	81	0
14	AN	492	0	530	44	0
14	CN	492	0	530	43	0
15	AO	734	0	771	49	0
15	CO	734	0	771	47	0
16	AP	701	0	720	78	0
16	CP	701	0	720	81	0
17	AQ	824	0	891	60	0
17	CQ	824	0	891	55	0
18	AR	574	0	644	61	0
18	CR	574	0	644	60	0
19	AS	630	0	652	38	0
19	CS	630	0	652	39	0
20	AT	763	0	861	84	0
20	CT	763	0	861	87	0
21	AU	209	0	221	9	0
21	CU	209	0	221	10	0
22	B0	650	0	654	55	0
22	D0	650	0	654	57	0
23	B1	693	0	764	139	0
23	D1	693	0	764	140	0
24	B2	421	0	461	118	0
24	D2	421	0	461	123	0
25	B3	468	0	523	30	0
25	D3	468	0	523	51	0
26	B4	157	0	69	17	0
26	D4	157	0	69	14	0
27	B5	459	0	480	83	0
27	D5	459	0	480	82	0
28	B6	381	0	390	85	0
28	D6	381	0	390	87	0
29	B7	419	0	467	28	0
29	D7	419	0	467	31	0
30	B8	508	0	576	137	0
30	D8	508	0	576	134	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
31	BA	58698	0	29591	2319	0
31	DA	58698	0	29590	2541	0
32	BB	2551	0	1295	128	0
32	DB	2551	0	1295	142	0
33	BD	2105	0	2182	298	0
33	DD	2105	0	2182	308	0
34	BE	1564	0	1629	206	0
34	DE	1564	0	1629	213	0
35	BF	1624	0	1677	165	0
35	DF	1624	0	1677	173	0
36	BG	1474	0	1534	150	0
36	DG	1474	0	1534	149	0
37	BH	1223	0	1282	149	0
37	DH	1223	0	1282	141	0
38	BI	1132	0	1218	121	0
38	DI	1132	0	1218	118	0
39	BN	1105	0	1180	181	0
39	DN	1105	0	1180	188	0
40	BO	933	0	996	74	0
40	DO	933	0	996	69	0
41	BP	1114	0	1187	259	0
41	DP	1114	0	1187	245	0
42	BQ	1080	0	1127	142	0
42	DQ	1080	0	1127	151	0
43	BR	960	0	1021	106	0
43	DR	960	0	1021	116	0
44	BS	771	0	832	138	0
44	DS	771	0	832	143	0
45	BT	1100	0	1164	188	0
45	DT	1100	0	1164	182	0
46	BU	958	0	1015	128	0
46	DU	958	0	1015	123	0
47	BV	779	0	852	219	0
47	DV	779	0	852	215	0
48	BW	896	0	953	60	0
48	DW	896	0	953	69	0
49	BX	726	0	778	173	0
49	DX	726	0	778	176	0
50	BY	776	0	870	195	0
50	DY	776	0	870	194	0
51	BZ	1404	0	1432	152	0
51	DZ	1404	0	1432	154	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
52	AA	54	0	0	0	0
52	B0	1	0	0	0	0
52	B1	1	0	0	0	0
52	B5	2	0	0	0	0
52	BA	362	0	0	0	0
52	BB	7	0	0	0	0
52	BD	1	0	0	0	0
52	BE	1	0	0	0	0
52	BF	1	0	0	0	0
52	BP	3	0	0	0	0
52	BQ	2	0	0	0	0
52	BR	1	0	0	0	0
52	BU	1	0	0	0	0
52	BX	1	0	0	0	0
52	CA	50	0	0	0	0
52	D0	1	0	0	0	0
52	D3	1	0	0	0	0
52	D5	1	0	0	0	0
52	D7	1	0	0	0	0
52	DA	328	0	0	0	0
52	DB	3	0	0	0	0
52	DE	1	0	0	0	0
52	DF	1	0	0	0	0
52	DP	1	0	0	0	0
52	DQ	1	0	0	0	0
52	DR	1	0	0	0	0
52	DU	1	0	0	0	0
52	DX	1	0	0	0	0
53	AD	1	0	0	0	0
53	AN	1	0	0	0	0
53	CD	1	0	0	0	0
53	CN	1	0	0	0	0
54	BA	1	0	0	0	0
54	DA	1	0	0	0	0
55	BA	51	0	67	1	0
55	DA	51	0	67	2	0
All	All	278034	0	189242	17303	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 37.

The worst 5 of 17303 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)
42:BQ:81:VAL:O	42:BQ:82:ARG:HD2	1.36	1.26
42:DQ:81:VAL:O	42:DQ:82:ARG:HD2	1.37	1.22
33:BD:35:LYS:HD2	33:BD:104:TYR:CD1	1.78	1.19
50:BY:95:LYS:HD3	50:BY:100:ALA:HB1	1.21	1.19
16:AP:28:ARG:HH11	16:AP:28:ARG:HG2	1.06	1.18

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%)	165 (71%)	51 (22%)	17 (7%)	1	5
2	CB	233/256 (91%)	165 (71%)	51 (22%)	17 (7%)	1	5
3	AC	205/239 (86%)	156 (76%)	35 (17%)	14 (7%)	1	6
3	CC	205/239 (86%)	156 (76%)	35 (17%)	14 (7%)	1	6
4	AD	206/209 (99%)	128 (62%)	59 (29%)	19 (9%)	1	3
4	CD	206/209 (99%)	128 (62%)	59 (29%)	19 (9%)	1	3
5	AE	149/160 (93%)	106 (71%)	31 (21%)	12 (8%)	1	4
5	CE	149/160 (93%)	104 (70%)	33 (22%)	12 (8%)	1	4
6	AF	99/101 (98%)	76 (77%)	18 (18%)	5 (5%)	2	12
6	CF	99/101 (98%)	77 (78%)	17 (17%)	5 (5%)	2	12
7	AG	153/156 (98%)	132 (86%)	17 (11%)	4 (3%)	5	27
7	CG	153/156 (98%)	132 (86%)	17 (11%)	4 (3%)	5	27
8	AH	136/138 (99%)	105 (77%)	24 (18%)	7 (5%)	2	12
8	CH	136/138 (99%)	106 (78%)	23 (17%)	7 (5%)	2	12
9	AI	123/128 (96%)	93 (76%)	21 (17%)	9 (7%)	1	5
9	CI	123/128 (96%)	93 (76%)	21 (17%)	9 (7%)	1	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	AJ	97/105 (92%)	80 (82%)	13 (13%)	4 (4%)	3	16
10	CJ	97/105 (92%)	80 (82%)	13 (13%)	4 (4%)	3	16
11	AK	117/129 (91%)	92 (79%)	20 (17%)	5 (4%)	2	15
11	CK	117/129 (91%)	94 (80%)	18 (15%)	5 (4%)	2	15
12	AL	123/135 (91%)	85 (69%)	24 (20%)	14 (11%)	0	2
12	CL	123/135 (91%)	86 (70%)	23 (19%)	14 (11%)	0	2
13	AM	107/126 (85%)	85 (79%)	17 (16%)	5 (5%)	2	14
13	CM	107/126 (85%)	84 (78%)	18 (17%)	5 (5%)	2	14
14	AN	58/61 (95%)	51 (88%)	5 (9%)	2 (3%)	3	20
14	CN	58/61 (95%)	50 (86%)	6 (10%)	2 (3%)	3	20
15	AO	86/89 (97%)	68 (79%)	15 (17%)	3 (4%)	3	20
15	CO	86/89 (97%)	67 (78%)	16 (19%)	3 (4%)	3	20
16	AP	82/88 (93%)	49 (60%)	23 (28%)	10 (12%)	0	1
16	CP	82/88 (93%)	48 (58%)	24 (29%)	10 (12%)	0	1
17	AQ	98/105 (93%)	77 (79%)	15 (15%)	6 (6%)	1	8
17	CQ	98/105 (93%)	76 (78%)	16 (16%)	6 (6%)	1	8
18	AR	68/88 (77%)	43 (63%)	21 (31%)	4 (6%)	1	9
18	CR	68/88 (77%)	40 (59%)	22 (32%)	6 (9%)	1	3
19	AS	77/93 (83%)	59 (77%)	11 (14%)	7 (9%)	1	3
19	CS	77/93 (83%)	59 (77%)	11 (14%)	7 (9%)	1	3
20	AT	97/106 (92%)	64 (66%)	25 (26%)	8 (8%)	1	4
20	CT	97/106 (92%)	61 (63%)	29 (30%)	7 (7%)	1	5
21	AU	23/27 (85%)	18 (78%)	4 (17%)	1 (4%)	2	15
21	CU	23/27 (85%)	18 (78%)	4 (17%)	1 (4%)	2	15
22	B0	83/85 (98%)	68 (82%)	11 (13%)	4 (5%)	2	13
22	D0	83/85 (98%)	70 (84%)	9 (11%)	4 (5%)	2	13
23	B1	87/98 (89%)	52 (60%)	17 (20%)	18 (21%)	0	0
23	D1	87/98 (89%)	52 (60%)	18 (21%)	17 (20%)	0	0
24	B2	49/72 (68%)	22 (45%)	17 (35%)	10 (20%)	0	0
24	D2	49/72 (68%)	24 (49%)	13 (26%)	12 (24%)	0	0
25	B3	58/60 (97%)	50 (86%)	6 (10%)	2 (3%)	3	20

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
25	D3	58/60 (97%)	51 (88%)	4 (7%)	3 (5%)	2	12
26	B4	30/71 (42%)	4 (13%)	11 (37%)	15 (50%)	0	0
26	D4	30/71 (42%)	4 (13%)	11 (37%)	15 (50%)	0	0
27	B5	57/60 (95%)	41 (72%)	7 (12%)	9 (16%)	0	1
27	D5	57/60 (95%)	42 (74%)	6 (10%)	9 (16%)	0	1
28	B6	41/54 (76%)	21 (51%)	7 (17%)	13 (32%)	0	0
28	D6	41/54 (76%)	21 (51%)	7 (17%)	13 (32%)	0	0
29	B7	47/49 (96%)	43 (92%)	4 (8%)	0	100	100
29	D7	47/49 (96%)	44 (94%)	3 (6%)	0	100	100
30	B8	62/65 (95%)	42 (68%)	8 (13%)	12 (19%)	0	0
30	D8	62/65 (95%)	44 (71%)	6 (10%)	12 (19%)	0	0
33	BD	270/276 (98%)	217 (80%)	40 (15%)	13 (5%)	2	13
33	DD	270/276 (98%)	214 (79%)	42 (16%)	14 (5%)	2	12
34	BE	203/206 (98%)	153 (75%)	28 (14%)	22 (11%)	0	2
34	DE	203/206 (98%)	151 (74%)	29 (14%)	23 (11%)	0	2
35	BF	206/210 (98%)	155 (75%)	37 (18%)	14 (7%)	1	6
35	DF	206/210 (98%)	151 (73%)	42 (20%)	13 (6%)	1	7
36	BG	177/182 (97%)	123 (70%)	35 (20%)	19 (11%)	0	2
36	DG	177/182 (97%)	125 (71%)	32 (18%)	20 (11%)	0	2
37	BH	158/180 (88%)	103 (65%)	28 (18%)	27 (17%)	0	0
37	DH	158/180 (88%)	103 (65%)	30 (19%)	25 (16%)	0	1
38	BI	144/148 (97%)	89 (62%)	38 (26%)	17 (12%)	0	1
38	DI	144/148 (97%)	89 (62%)	39 (27%)	16 (11%)	0	2
39	BN	137/140 (98%)	96 (70%)	25 (18%)	16 (12%)	0	1
39	DN	137/140 (98%)	94 (69%)	26 (19%)	17 (12%)	0	1
40	BO	120/122 (98%)	107 (89%)	10 (8%)	3 (2%)	5	28
40	DO	120/122 (98%)	103 (86%)	15 (12%)	2 (2%)	9	39
41	BP	144/150 (96%)	80 (56%)	23 (16%)	41 (28%)	0	0
41	DP	144/150 (96%)	80 (56%)	24 (17%)	40 (28%)	0	0
42	BQ	134/141 (95%)	95 (71%)	23 (17%)	16 (12%)	0	1
42	DQ	134/141 (95%)	94 (70%)	25 (19%)	15 (11%)	0	2

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	BR	115/118 (98%)	87 (76%)	19 (16%)	9 (8%)	1	4
43	DR	115/118 (98%)	84 (73%)	21 (18%)	10 (9%)	1	3
44	BS	97/112 (87%)	54 (56%)	19 (20%)	24 (25%)	0	0
44	DS	97/112 (87%)	53 (55%)	21 (22%)	23 (24%)	0	0
45	BT	130/146 (89%)	93 (72%)	20 (15%)	17 (13%)	0	1
45	DT	130/146 (89%)	92 (71%)	22 (17%)	16 (12%)	0	1
46	BU	115/118 (98%)	90 (78%)	17 (15%)	8 (7%)	1	6
46	DU	115/118 (98%)	85 (74%)	22 (19%)	8 (7%)	1	6
47	BV	99/101 (98%)	57 (58%)	15 (15%)	27 (27%)	0	0
47	DV	99/101 (98%)	56 (57%)	15 (15%)	28 (28%)	0	0
48	BW	111/113 (98%)	88 (79%)	14 (13%)	9 (8%)	1	4
48	DW	111/113 (98%)	85 (77%)	18 (16%)	8 (7%)	1	5
49	BX	91/96 (95%)	52 (57%)	16 (18%)	23 (25%)	0	0
49	DX	91/96 (95%)	50 (55%)	18 (20%)	23 (25%)	0	0
50	BY	99/110 (90%)	49 (50%)	21 (21%)	29 (29%)	0	0
50	DY	99/110 (90%)	47 (48%)	23 (23%)	29 (29%)	0	0
51	BZ	175/206 (85%)	115 (66%)	44 (25%)	16 (9%)	1	3
51	DZ	175/206 (85%)	115 (66%)	41 (23%)	19 (11%)	0	2
All	All	11152/12056 (92%)	7925 (71%)	2047 (18%)	1180 (11%)	0	2

5 of 1180 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	154	LEU
2	AB	165	VAL
2	AB	194	PRO
2	AB	195	ASP

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%)	178 (88%)	24 (12%)	5	22
2	CB	202/220 (92%)	178 (88%)	24 (12%)	5	22
3	AC	160/188 (85%)	153 (96%)	7 (4%)	28	65
3	CC	160/188 (85%)	153 (96%)	7 (4%)	28	65
4	AD	180/181 (99%)	150 (83%)	30 (17%)	2	11
4	CD	180/181 (99%)	153 (85%)	27 (15%)	3	14
5	AE	115/122 (94%)	97 (84%)	18 (16%)	2	13
5	CE	115/122 (94%)	97 (84%)	18 (16%)	2	13
6	AF	90/90 (100%)	80 (89%)	10 (11%)	6	25
6	CF	90/90 (100%)	79 (88%)	11 (12%)	5	21
7	AG	126/127 (99%)	123 (98%)	3 (2%)	49	79
7	CG	126/127 (99%)	122 (97%)	4 (3%)	39	74
8	AH	119/119 (100%)	110 (92%)	9 (8%)	13	43
8	CH	119/119 (100%)	110 (92%)	9 (8%)	13	43
9	AI	98/99 (99%)	88 (90%)	10 (10%)	7	28
9	CI	98/99 (99%)	89 (91%)	9 (9%)	9	34
10	AJ	88/92 (96%)	78 (89%)	10 (11%)	5	24
10	CJ	88/92 (96%)	78 (89%)	10 (11%)	5	24
11	AK	90/99 (91%)	84 (93%)	6 (7%)	16	49
11	CK	90/99 (91%)	84 (93%)	6 (7%)	16	49
12	AL	104/111 (94%)	93 (89%)	11 (11%)	6	26
12	CL	104/111 (94%)	92 (88%)	12 (12%)	5	24
13	AM	93/101 (92%)	87 (94%)	6 (6%)	17	50
13	CM	93/101 (92%)	88 (95%)	5 (5%)	22	57
14	AN	49/50 (98%)	46 (94%)	3 (6%)	18	53
14	CN	49/50 (98%)	46 (94%)	3 (6%)	18	53
15	AO	79/80 (99%)	71 (90%)	8 (10%)	7	29
15	CO	79/80 (99%)	71 (90%)	8 (10%)	7	29
16	AP	72/74 (97%)	57 (79%)	15 (21%)	1	5
16	CP	72/74 (97%)	57 (79%)	15 (21%)	1	5
17	AQ	94/97 (97%)	89 (95%)	5 (5%)	22	58

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
17	CQ	94/97 (97%)	89 (95%)	5 (5%)	22	58
18	AR	61/77 (79%)	56 (92%)	5 (8%)	11	39
18	CR	61/77 (79%)	57 (93%)	4 (7%)	16	49
19	AS	69/80 (86%)	62 (90%)	7 (10%)	7	29
19	CS	69/80 (86%)	62 (90%)	7 (10%)	7	29
20	AT	76/82 (93%)	65 (86%)	11 (14%)	3	15
20	CT	76/82 (93%)	65 (86%)	11 (14%)	3	15
21	AU	19/22 (86%)	19 (100%)	0	100	100
21	CU	19/22 (86%)	19 (100%)	0	100	100
22	B0	61/67 (91%)	53 (87%)	8 (13%)	4	18
22	D0	61/67 (91%)	53 (87%)	8 (13%)	4	18
23	B1	73/83 (88%)	53 (73%)	20 (27%)	0	2
23	D1	73/83 (88%)	55 (75%)	18 (25%)	0	3
24	B2	46/67 (69%)	26 (56%)	20 (44%)	0	0
24	D2	46/67 (69%)	27 (59%)	19 (41%)	0	0
25	B3	51/52 (98%)	48 (94%)	3 (6%)	19	54
25	D3	51/52 (98%)	48 (94%)	3 (6%)	19	54
27	B5	51/52 (98%)	38 (74%)	13 (26%)	0	3
27	D5	51/52 (98%)	38 (74%)	13 (26%)	0	3
28	B6	43/52 (83%)	25 (58%)	18 (42%)	0	0
28	D6	43/52 (83%)	26 (60%)	17 (40%)	0	0
29	B7	41/42 (98%)	33 (80%)	8 (20%)	1	7
29	D7	41/42 (98%)	33 (80%)	8 (20%)	1	7
30	B8	53/55 (96%)	42 (79%)	11 (21%)	1	5
30	D8	53/55 (96%)	43 (81%)	10 (19%)	1	8
33	BD	213/218 (98%)	168 (79%)	45 (21%)	1	5
33	DD	213/218 (98%)	169 (79%)	44 (21%)	1	6
34	BE	165/166 (99%)	125 (76%)	40 (24%)	0	3
34	DE	165/166 (99%)	126 (76%)	39 (24%)	1	3
35	BF	165/166 (99%)	127 (77%)	38 (23%)	1	4
35	DF	165/166 (99%)	129 (78%)	36 (22%)	1	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
36	BG	155/156 (99%)	136 (88%)	19 (12%)	4 21
36	DG	155/156 (99%)	135 (87%)	20 (13%)	4 19
37	BH	132/148 (89%)	107 (81%)	25 (19%)	1 8
37	DH	132/148 (89%)	108 (82%)	24 (18%)	1 9
38	BI	122/124 (98%)	105 (86%)	17 (14%)	3 16
38	DI	122/124 (98%)	105 (86%)	17 (14%)	3 16
39	BN	117/119 (98%)	78 (67%)	39 (33%)	0 1
39	DN	117/119 (98%)	78 (67%)	39 (33%)	0 1
40	BO	100/100 (100%)	85 (85%)	15 (15%)	3 14
40	DO	100/100 (100%)	85 (85%)	15 (15%)	3 14
41	BP	112/116 (97%)	73 (65%)	39 (35%)	0 1
41	DP	112/116 (97%)	71 (63%)	41 (37%)	0 1
42	BQ	106/111 (96%)	80 (76%)	26 (24%)	0 3
42	DQ	106/111 (96%)	81 (76%)	25 (24%)	1 3
43	BR	100/101 (99%)	72 (72%)	28 (28%)	0 2
43	DR	100/101 (99%)	73 (73%)	27 (27%)	0 2
44	BS	77/88 (88%)	52 (68%)	25 (32%)	0 1
44	DS	77/88 (88%)	52 (68%)	25 (32%)	0 1
45	BT	116/127 (91%)	86 (74%)	30 (26%)	0 2
45	DT	116/127 (91%)	88 (76%)	28 (24%)	0 3
46	BU	92/94 (98%)	76 (83%)	16 (17%)	2 10
46	DU	92/94 (98%)	75 (82%)	17 (18%)	1 8
47	BV	82/82 (100%)	53 (65%)	29 (35%)	0 1
47	DV	82/82 (100%)	54 (66%)	28 (34%)	0 1
48	BW	91/92 (99%)	76 (84%)	15 (16%)	2 11
48	DW	91/92 (99%)	76 (84%)	15 (16%)	2 11
49	BX	74/78 (95%)	55 (74%)	19 (26%)	0 3
49	DX	74/78 (95%)	54 (73%)	20 (27%)	0 2
50	BY	84/91 (92%)	58 (69%)	26 (31%)	0 1
50	DY	84/91 (92%)	58 (69%)	26 (31%)	0 1
51	BZ	155/179 (87%)	131 (84%)	24 (16%)	2 13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
51	DZ	155/179 (87%)	131 (84%)	24 (16%)	2 13
All	All	9322/9874 (94%)	7707 (83%)	1615 (17%)	2 10

5 of 1615 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
10	CJ	47	PHE
33	DD	257	LEU
51	DZ	81	ARG
13	CM	70	LEU
10	CJ	45	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 291 such sidechains are listed below:

Mol	Chain	Res	Type
35	DF	75	HIS
49	DX	87	GLN
37	DH	147	ASN
43	DR	53	HIS
39	BN	45	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	283 (18%)	29 (1%)
1	CA	1503/1522 (98%)	280 (18%)	29 (1%)
31	BA	2723/2787 (97%)	723 (26%)	73 (2%)
31	DA	2723/2787 (97%)	726 (26%)	70 (2%)
32	BB	118/122 (96%)	35 (29%)	1 (0%)
32	DB	118/122 (96%)	34 (28%)	1 (0%)
All	All	8688/8862 (98%)	2081 (23%)	203 (2%)

5 of 2081 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	9	G
1	AA	32	A
1	AA	39	G
1	AA	47	C
1	AA	48	C

5 of 203 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	CA	484	G
31	DA	474	G
31	DA	2796	U
1	CA	687	A
1	CA	1498	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 838 ligands modelled in this entry, 836 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
55	ERY	BA	3364	-	53,53,53	1.23	5 (9%)	82,82,82	0.98	5 (6%)
55	ERY	DA	3330	-	53,53,53	1.23	5 (9%)	82,82,82	0.98	5 (6%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	ERY	BA	3364	-	-	4/72/107/107	0/3/3/3
55	ERY	DA	3330	-	-	4/72/107/107	0/3/3/3

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	BA	3364	ERY	C6-C5	3.26	1.61	1.55
55	DA	3330	ERY	C6-C5	3.24	1.61	1.55
55	BA	3364	ERY	C7-C6	2.47	1.58	1.54
55	DA	3330	ERY	C7-C6	2.44	1.58	1.54
55	DA	3330	ERY	O2-C13	2.18	1.50	1.46

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	DA	3330	ERY	C3-C2-C1	-2.61	104.69	110.01
55	BA	3364	ERY	C3-C2-C1	-2.60	104.70	110.01
55	DA	3330	ERY	C25-C24-C23	-2.44	106.45	109.97
55	BA	3364	ERY	C25-C24-C23	-2.43	106.46	109.97
55	DA	3330	ERY	C6-C5-C4	-2.16	111.00	114.05

There are no chirality outliers.

5 of 8 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
55	BA	3364	ERY	O9-C22-O7-C5
55	DA	3330	ERY	O9-C22-O7-C5
55	BA	3364	ERY	O7-C5-C6-C7
55	DA	3330	ERY	O7-C5-C6-C7
55	BA	3364	ERY	C23-C22-O7-C5

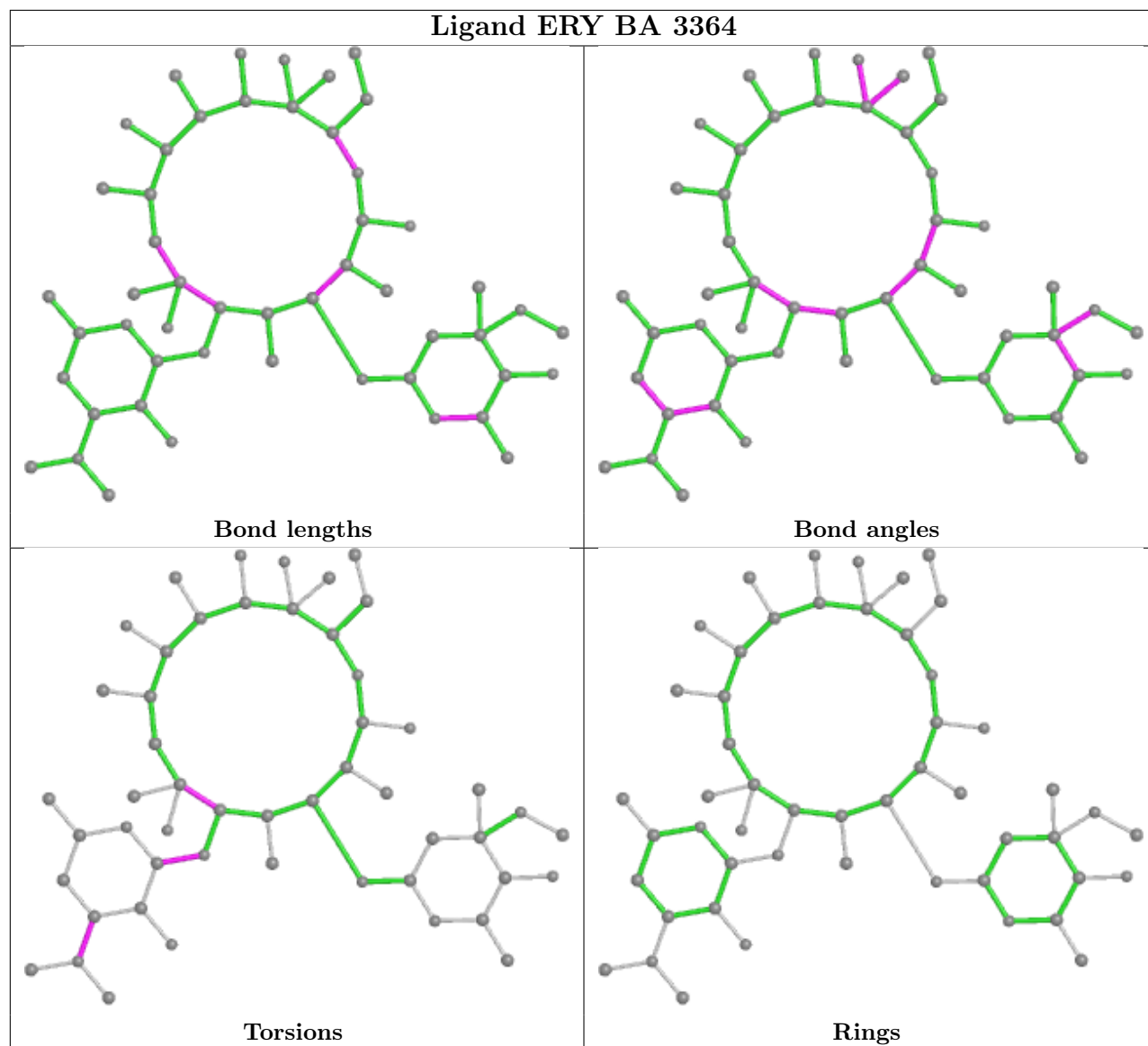
There are no ring outliers.

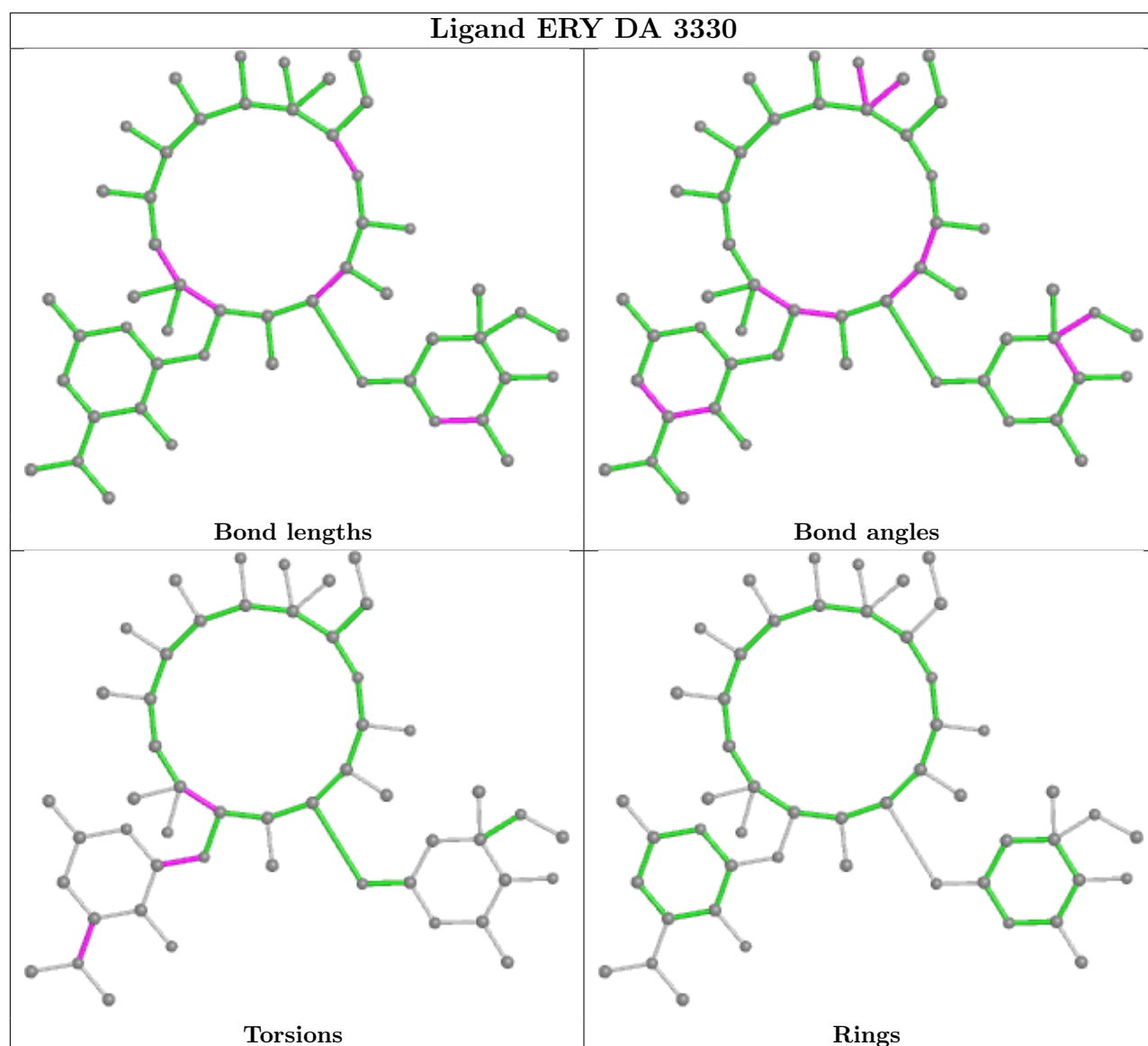
2 monomers are involved in 3 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
55	BA	3364	ERY	1	0
55	DA	3330	ERY	2	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and

any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.





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

There are no such residues in this entry.

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

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	CM	3
13	AM	3
36	DG	1
36	BG	1

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Mol	Chain	Number of breaks
28	B6	1
28	D6	1
9	AI	1
9	CI	1

The worst 5 of 12 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	CM	69:GLU	C	70:LEU	N	5.58
1	AM	69:GLU	C	70:LEU	N	5.57
1	DG	112:PRO	C	113:ARG	N	4.82
1	BG	112:PRO	C	113:ARG	N	4.80
1	CM	97:PRO	C	98:VAL	N	4.38

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	AA	1504/1522 (98%)	1.15	305 (20%) 1 0	46, 116, 201, 202	0
1	CA	1504/1522 (98%)	1.11	300 (19%) 1 0	50, 115, 201, 203	0
2	AB	235/256 (91%)	1.22	64 (27%) 0 0	99, 157, 195, 200	0
2	CB	235/256 (91%)	1.57	77 (32%) 0 0	99, 162, 195, 201	0
3	AC	207/239 (86%)	1.17	47 (22%) 0 0	108, 163, 190, 198	0
3	CC	207/239 (86%)	1.86	75 (36%) 0 0	110, 168, 192, 198	0
4	AD	208/209 (99%)	0.55	21 (10%) 7 2	65, 126, 175, 189	0
4	CD	208/209 (99%)	0.48	17 (8%) 11 3	66, 124, 173, 191	0
5	AE	151/160 (94%)	0.37	15 (9%) 7 2	65, 111, 162, 199	0
5	CE	151/160 (94%)	0.81	21 (13%) 2 1	72, 115, 172, 198	0
6	AF	101/101 (100%)	0.35	5 (4%) 28 10	82, 123, 173, 192	0
6	CF	101/101 (100%)	0.56	16 (15%) 2 1	84, 130, 177, 196	0
7	AG	155/156 (99%)	1.83	65 (41%) 0 0	126, 177, 196, 201	0
7	CG	155/156 (99%)	2.26	73 (47%) 0 0	122, 177, 196, 200	0
8	AH	138/138 (100%)	0.10	4 (2%) 51 23	78, 113, 157, 171	0
8	CH	138/138 (100%)	0.14	2 (1%) 75 49	79, 115, 162, 171	0
9	AI	127/128 (99%)	2.65	71 (55%) 0 0	132, 189, 200, 201	0
9	CI	127/128 (99%)	2.90	74 (58%) 0 0	131, 190, 200, 202	0
10	AJ	99/105 (94%)	3.50	69 (69%) 0 0	119, 178, 199, 200	0
10	CJ	99/105 (94%)	3.97	76 (76%) 0 0	116, 182, 200, 201	0
11	AK	119/129 (92%)	0.74	23 (19%) 1 0	63, 113, 163, 199	0
11	CK	119/129 (92%)	0.94	21 (17%) 1 0	64, 116, 165, 199	0
12	AL	125/135 (92%)	0.66	15 (12%) 4 1	59, 98, 164, 201	0
12	CL	125/135 (92%)	0.71	16 (12%) 3 1	58, 99, 167, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	115/126 (91%)	3.05	64 (55%) 0 0	157, 191, 200, 201	0
13	CM	115/126 (91%)	2.33	56 (48%) 0 0	152, 189, 199, 201	0
14	AN	60/61 (98%)	1.99	22 (36%) 0 0	112, 172, 197, 199	0
14	CN	60/61 (98%)	1.74	16 (26%) 0 0	112, 171, 197, 199	0
15	AO	88/89 (98%)	0.30	6 (6%) 17 5	70, 105, 160, 169	0
15	CO	88/89 (98%)	0.37	5 (5%) 23 8	71, 107, 162, 171	0
16	AP	84/88 (95%)	1.23	24 (28%) 0 0	82, 109, 170, 187	0
16	CP	84/88 (95%)	1.10	23 (27%) 0 0	80, 107, 165, 183	0
17	AQ	100/105 (95%)	0.51	9 (9%) 9 3	71, 104, 154, 185	0
17	CQ	100/105 (95%)	0.28	7 (7%) 16 5	74, 103, 154, 190	0
18	AR	70/88 (79%)	0.92	7 (10%) 7 2	80, 116, 173, 182	0
18	CR	70/88 (79%)	1.36	20 (28%) 0 0	83, 124, 175, 185	0
19	AS	79/93 (84%)	3.31	58 (73%) 0 0	127, 192, 200, 200	0
19	CS	79/93 (84%)	3.42	53 (67%) 0 0	131, 190, 200, 201	0
20	AT	99/106 (93%)	0.58	10 (10%) 7 2	75, 115, 162, 186	0
20	CT	99/106 (93%)	0.48	10 (10%) 7 2	74, 115, 160, 189	0
21	AU	25/27 (92%)	5.05	21 (84%) 0 0	144, 182, 197, 199	0
21	CU	25/27 (92%)	3.57	17 (68%) 0 0	139, 173, 194, 197	0
22	B0	85/85 (100%)	0.56	9 (10%) 6 2	39, 60, 177, 193	0
22	D0	85/85 (100%)	0.69	8 (9%) 8 3	44, 65, 177, 193	0
23	B1	89/98 (90%)	0.19	2 (2%) 62 33	39, 64, 143, 170	0
23	D1	89/98 (90%)	0.16	5 (5%) 24 8	41, 66, 144, 183	0
24	B2	51/72 (70%)	0.72	3 (5%) 22 7	47, 85, 185, 196	0
24	D2	51/72 (70%)	0.45	4 (7%) 13 4	53, 92, 191, 198	0
25	B3	60/60 (100%)	0.08	2 (3%) 46 20	36, 59, 135, 186	0
25	D3	60/60 (100%)	0.30	4 (6%) 17 5	42, 66, 141, 182	0
26	B4	32/71 (45%)	-0.22	0 100 100	133, 155, 186, 193	0
26	D4	32/71 (45%)	0.46	5 (15%) 2 1	143, 169, 187, 197	0
27	B5	58/60 (96%)	0.46	5 (8%) 10 3	20, 47, 177, 199	0
27	D5	58/60 (96%)	0.17	7 (12%) 4 1	23, 50, 176, 199	0
28	B6	45/54 (83%)	1.07	8 (17%) 1 0	41, 74, 129, 184	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	D6	45/54 (83%)	0.91	11 (24%) 0 0	44, 77, 143, 178	0
29	B7	49/49 (100%)	0.11	4 (8%) 11 3	26, 33, 119, 175	0
29	D7	49/49 (100%)	0.17	3 (6%) 21 7	26, 35, 126, 174	0
30	B8	64/65 (98%)	0.42	4 (6%) 20 6	33, 54, 148, 179	0
30	D8	64/65 (98%)	0.09	2 (3%) 49 21	36, 58, 148, 180	0
31	BA	2725/2787 (97%)	0.30	90 (3%) 46 20	25, 47, 144, 203	0
31	DA	2725/2787 (97%)	0.20	141 (5%) 27 10	25, 52, 155, 202	0
32	BB	119/122 (97%)	0.59	5 (4%) 36 14	44, 92, 137, 191	0
32	DB	119/122 (97%)	1.08	31 (26%) 0 0	51, 101, 165, 190	0
33	BD	272/276 (98%)	-0.15	4 (1%) 73 46	25, 49, 105, 183	0
33	DD	272/276 (98%)	-0.24	3 (1%) 80 56	23, 53, 109, 172	0
34	BE	205/206 (99%)	0.06	7 (3%) 45 19	26, 54, 140, 193	0
34	DE	205/206 (99%)	-0.02	5 (2%) 59 30	30, 58, 146, 193	0
35	BF	208/210 (99%)	0.37	15 (7%) 15 4	21, 65, 175, 198	0
35	DF	208/210 (99%)	0.27	17 (8%) 11 3	27, 68, 175, 199	0
36	BG	181/182 (99%)	1.04	36 (19%) 1 0	95, 145, 191, 201	0
36	DG	181/182 (99%)	2.41	91 (50%) 0 0	104, 162, 195, 202	0
37	BH	160/180 (88%)	0.50	12 (7%) 14 4	62, 103, 161, 193	0
37	DH	160/180 (88%)	1.25	46 (28%) 0 0	68, 117, 171, 193	0
38	BI	146/148 (98%)	0.52	17 (11%) 4 1	56, 144, 191, 200	0
38	DI	146/148 (98%)	2.88	65 (44%) 0 0	52, 164, 194, 201	0
39	BN	139/140 (99%)	0.13	6 (4%) 35 13	35, 63, 136, 190	0
39	DN	139/140 (99%)	-0.16	3 (2%) 62 33	41, 69, 144, 191	0
40	BO	122/122 (100%)	-0.18	0 100 100	34, 57, 109, 141	0
40	DO	122/122 (100%)	-0.43	0 100 100	37, 59, 116, 146	0
41	BP	146/150 (97%)	0.56	12 (8%) 11 3	23, 83, 151, 201	0
41	DP	146/150 (97%)	0.52	19 (13%) 3 1	25, 88, 155, 201	0
42	BQ	136/141 (96%)	0.54	9 (6%) 18 5	38, 68, 149, 195	0
42	DQ	136/141 (96%)	0.41	13 (9%) 8 2	43, 74, 146, 195	0
43	BR	117/118 (99%)	-0.18	1 (0%) 84 63	29, 45, 120, 144	0
43	DR	117/118 (99%)	-0.30	1 (0%) 84 63	31, 51, 125, 143	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	BS	99/112 (88%)	0.47	6 (6%) 21 7	49, 98, 144, 184	0
44	DS	99/112 (88%)	0.91	21 (21%) 0 0	59, 105, 160, 188	0
45	BT	132/146 (90%)	0.29	7 (5%) 26 10	43, 76, 154, 194	0
45	DT	132/146 (90%)	0.27	14 (10%) 6 2	47, 79, 162, 197	0
46	BU	117/118 (99%)	0.14	3 (2%) 56 27	29, 51, 121, 190	0
46	DU	117/118 (99%)	0.27	16 (13%) 3 1	35, 58, 130, 192	0
47	BV	101/101 (100%)	0.85	10 (9%) 7 2	32, 98, 188, 199	0
47	DV	101/101 (100%)	0.75	12 (11%) 4 1	39, 105, 189, 199	0
48	BW	113/113 (100%)	-0.28	0 100 100	27, 39, 106, 171	0
48	DW	113/113 (100%)	-0.44	1 (0%) 84 63	28, 43, 109, 180	0
49	BX	93/96 (96%)	0.25	3 (3%) 47 20	37, 63, 144, 187	0
49	DX	93/96 (96%)	0.05	1 (1%) 80 56	40, 66, 144, 186	0
50	BY	101/110 (91%)	0.94	13 (12%) 3 1	44, 92, 194, 201	0
50	DY	101/110 (91%)	0.70	18 (17%) 1 0	53, 99, 192, 201	0
51	BZ	177/206 (85%)	0.16	4 (2%) 60 31	58, 103, 152, 180	0
51	DZ	177/206 (85%)	0.69	25 (14%) 2 1	63, 110, 156, 188	0
All	All	20062/20918 (95%)	0.70	2789 (13%) 2 1	20, 90, 194, 203	0

The worst 5 of 2789 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	AA	88	A	18.5
1	AA	89	C	17.8
35	BF	208	GLY	17.7
42	BQ	140	ALA	17.0
34	DE	205	ALA	17.0

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
52	MG	DA	3324	1/1	0.42	0.46	69,69,69,69	0
52	MG	DA	3162	1/1	0.47	0.40	51,51,51,51	0
52	MG	AA	1645	1/1	0.62	0.57	75,75,75,75	0
52	MG	BA	3358	1/1	0.62	0.58	80,80,80,80	0
52	MG	DA	3276	1/1	0.63	0.47	65,65,65,65	0
52	MG	DA	3246	1/1	0.64	0.20	67,67,67,67	0
52	MG	BA	3319	1/1	0.65	0.42	64,64,64,64	0
52	MG	AA	1635	1/1	0.67	0.17	69,69,69,69	0
52	MG	DA	3205	1/1	0.69	0.51	62,62,62,62	0
52	MG	BA	3206	1/1	0.70	0.98	57,57,57,57	0
52	MG	CA	1613	1/1	0.71	0.55	68,68,68,68	0
52	MG	AA	1650	1/1	0.71	0.35	60,60,60,60	0
52	MG	AA	1642	1/1	0.71	0.46	73,73,73,73	0
52	MG	CA	1628	1/1	0.72	0.51	73,73,73,73	0
52	MG	BA	3257	1/1	0.72	0.25	23,23,23,23	0
52	MG	BA	3208	1/1	0.73	0.36	41,41,41,41	0
52	MG	DA	3144	1/1	0.74	0.34	48,48,48,48	0
52	MG	DA	3247	1/1	0.74	0.44	76,76,76,76	0
52	MG	AA	1634	1/1	0.74	0.56	55,55,55,55	0
52	MG	DA	3291	1/1	0.74	0.44	62,62,62,62	0
52	MG	DA	3304	1/1	0.74	0.15	65,65,65,65	0
52	MG	CA	1649	1/1	0.74	0.19	63,63,63,63	0
52	MG	DA	3328	1/1	0.74	0.22	81,81,81,81	0
52	MG	BA	3327	1/1	0.75	0.53	48,48,48,48	0
52	MG	AA	1613	1/1	0.75	0.22	76,76,76,76	0
52	MG	DA	3264	1/1	0.75	0.53	58,58,58,58	0
52	MG	DA	3231	1/1	0.75	0.49	58,58,58,58	0
52	MG	BA	3248	1/1	0.76	0.38	46,46,46,46	0
52	MG	AA	1644	1/1	0.76	0.36	87,87,87,87	0
52	MG	CA	1604	1/1	0.76	0.21	88,88,88,88	0
52	MG	DA	3309	1/1	0.76	0.66	62,62,62,62	0
52	MG	BA	3245	1/1	0.76	0.45	56,56,56,56	0
52	MG	DA	3170	1/1	0.76	0.33	61,61,61,61	0
52	MG	DA	3278	1/1	0.77	1.25	74,74,74,74	0
52	MG	BA	3304	1/1	0.77	0.58	55,55,55,55	0
52	MG	CA	1630	1/1	0.77	0.53	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3261	1/1	0.77	0.22	63,63,63,63	0
52	MG	DA	3316	1/1	0.77	0.71	60,60,60,60	0
52	MG	BA	3151	1/1	0.77	0.48	54,54,54,54	0
52	MG	BA	3074	1/1	0.77	0.60	60,60,60,60	0
52	MG	DA	3306	1/1	0.78	0.20	69,69,69,69	0
52	MG	BA	3330	1/1	0.78	0.29	72,72,72,72	0
52	MG	DA	3280	1/1	0.78	0.67	64,64,64,64	0
52	MG	DA	3069	1/1	0.78	0.28	65,65,65,65	0
52	MG	CA	1635	1/1	0.78	0.45	77,77,77,77	0
52	MG	BA	3175	1/1	0.79	0.40	62,62,62,62	0
52	MG	DA	3191	1/1	0.79	0.55	45,45,45,45	0
52	MG	AA	1651	1/1	0.80	0.70	57,57,57,57	0
52	MG	BA	3154	1/1	0.80	0.40	79,79,79,79	0
52	MG	DA	3105	1/1	0.80	0.20	43,43,43,43	0
52	MG	CA	1646	1/1	0.80	0.33	59,59,59,59	0
52	MG	DA	3223	1/1	0.80	0.18	41,41,41,41	0
52	MG	BA	3238	1/1	0.81	0.22	40,40,40,40	0
52	MG	BA	3273	1/1	0.81	0.41	42,42,42,42	0
52	MG	BA	3140	1/1	0.81	0.17	46,46,46,46	0
52	MG	DA	3199	1/1	0.81	0.18	37,37,37,37	0
52	MG	BA	3361	1/1	0.81	0.09	60,60,60,60	0
52	MG	D3	101	1/1	0.81	0.65	52,52,52,52	0
52	MG	BA	3311	1/1	0.81	1.02	62,62,62,62	0
52	MG	DA	3090	1/1	0.81	0.29	34,34,34,34	0
52	MG	BA	3317	1/1	0.81	0.39	45,45,45,45	0
52	MG	DA	3252	1/1	0.81	0.50	54,54,54,54	0
52	MG	AA	1611	1/1	0.81	0.15	82,82,82,82	0
52	MG	CA	1637	1/1	0.82	0.42	61,61,61,61	0
52	MG	AA	1653	1/1	0.82	0.08	61,61,61,61	0
52	MG	BA	3342	1/1	0.82	0.30	38,38,38,38	0
52	MG	AA	1628	1/1	0.82	0.51	70,70,70,70	0
52	MG	DA	3005	1/1	0.82	0.16	63,63,63,63	0
52	MG	DA	3300	1/1	0.82	0.88	64,64,64,64	0
52	MG	CA	1638	1/1	0.83	0.32	61,61,61,61	0
52	MG	DA	3040	1/1	0.83	0.78	50,50,50,50	0
52	MG	DA	3283	1/1	0.83	0.58	67,67,67,67	0
52	MG	DA	3243	1/1	0.83	0.14	41,41,41,41	0
52	MG	DA	3298	1/1	0.83	0.17	46,46,46,46	0
52	MG	DA	3163	1/1	0.83	0.53	59,59,59,59	0
52	MG	DA	3301	1/1	0.83	0.74	54,54,54,54	0
52	MG	DA	3166	1/1	0.83	0.43	54,54,54,54	0
52	MG	DA	3047	1/1	0.83	0.45	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	AA	1624	1/1	0.83	0.43	58,58,58,58	0
52	MG	BA	3265	1/1	0.83	0.26	41,41,41,41	0
52	MG	DA	3320	1/1	0.83	0.67	68,68,68,68	0
52	MG	CA	1602	1/1	0.83	0.67	55,55,55,55	0
52	MG	DA	3325	1/1	0.83	0.50	67,67,67,67	0
52	MG	DA	3277	1/1	0.83	0.43	76,76,76,76	0
52	MG	DF	301	1/1	0.83	0.34	57,57,57,57	0
52	MG	DA	3220	1/1	0.84	0.51	40,40,40,40	0
52	MG	DA	3141	1/1	0.84	0.81	70,70,70,70	0
52	MG	DA	3143	1/1	0.84	0.28	32,32,32,32	0
52	MG	BA	3336	1/1	0.84	0.79	69,69,69,69	0
52	MG	BA	3239	1/1	0.84	0.32	50,50,50,50	0
52	MG	AA	1621	1/1	0.84	0.47	50,50,50,50	0
52	MG	DA	3305	1/1	0.84	0.23	83,83,83,83	0
52	MG	AA	1604	1/1	0.84	0.31	73,73,73,73	0
52	MG	BA	3083	1/1	0.84	0.38	35,35,35,35	0
52	MG	AA	1638	1/1	0.84	0.28	67,67,67,67	0
52	MG	DA	3267	1/1	0.84	0.34	49,49,49,49	0
52	MG	AA	1607	1/1	0.84	0.54	58,58,58,58	0
52	MG	DA	3123	1/1	0.84	0.19	57,57,57,57	0
52	MG	DA	3208	1/1	0.84	0.27	57,57,57,57	0
52	MG	DA	3219	1/1	0.84	0.64	57,57,57,57	0
52	MG	DA	3206	1/1	0.85	0.57	38,38,38,38	0
52	MG	DA	3279	1/1	0.85	0.29	59,59,59,59	0
52	MG	BA	3341	1/1	0.85	0.12	70,70,70,70	0
52	MG	BA	3321	1/1	0.85	0.28	48,48,48,48	0
52	MG	BA	3344	1/1	0.85	0.44	60,60,60,60	0
52	MG	DA	3294	1/1	0.85	0.52	65,65,65,65	0
52	MG	DA	3131	1/1	0.85	0.17	82,82,82,82	0
52	MG	BA	3345	1/1	0.85	0.32	48,48,48,48	0
52	MG	BA	3350	1/1	0.85	0.21	65,65,65,65	0
52	MG	BA	3352	1/1	0.85	0.55	62,62,62,62	0
52	MG	BA	3357	1/1	0.85	0.28	71,71,71,71	0
52	MG	AA	1609	1/1	0.85	0.39	50,50,50,50	0
52	MG	DA	3260	1/1	0.85	0.24	65,65,65,65	0
52	MG	BA	3360	1/1	0.85	0.09	64,64,64,64	0
52	MG	DA	3262	1/1	0.85	0.21	57,57,57,57	0
52	MG	BA	3328	1/1	0.85	0.46	56,56,56,56	0
52	MG	BB	204	1/1	0.85	0.39	43,43,43,43	0
52	MG	BA	3297	1/1	0.85	0.40	37,37,37,37	0
52	MG	BA	3235	1/1	0.85	0.47	34,34,34,34	0
52	MG	DQ	201	1/1	0.85	0.24	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3178	1/1	0.86	0.33	58,58,58,58	0
52	MG	DA	3116	1/1	0.86	0.28	62,62,62,62	0
52	MG	BA	3254	1/1	0.86	0.35	55,55,55,55	0
52	MG	DA	3130	1/1	0.86	0.26	59,59,59,59	0
52	MG	BA	3097	1/1	0.86	0.48	54,54,54,54	0
52	MG	BA	3332	1/1	0.86	0.43	40,40,40,40	0
52	MG	DA	3212	1/1	0.86	0.35	38,38,38,38	0
52	MG	DA	3268	1/1	0.86	0.39	52,52,52,52	0
52	MG	DA	3271	1/1	0.86	0.50	61,61,61,61	0
52	MG	BA	3312	1/1	0.86	0.10	40,40,40,40	0
52	MG	DA	3318	1/1	0.86	0.10	45,45,45,45	0
52	MG	BA	3130	1/1	0.86	0.45	55,55,55,55	0
52	MG	BA	3183	1/1	0.86	0.27	54,54,54,54	0
52	MG	BA	3281	1/1	0.86	0.88	61,61,61,61	0
52	MG	DA	3092	1/1	0.86	0.53	40,40,40,40	0
52	MG	BA	3236	1/1	0.86	0.37	25,25,25,25	0
52	MG	DA	3289	1/1	0.86	0.71	65,65,65,65	0
52	MG	BA	3187	1/1	0.87	0.41	48,48,48,48	0
52	MG	DA	3189	1/1	0.87	0.56	42,42,42,42	0
52	MG	DA	3190	1/1	0.87	0.54	43,43,43,43	0
52	MG	BA	3270	1/1	0.87	0.11	66,66,66,66	0
52	MG	BA	3152	1/1	0.87	0.13	55,55,55,55	0
52	MG	BA	3042	1/1	0.87	0.35	14,14,14,14	0
52	MG	BA	3233	1/1	0.87	0.20	21,21,21,21	0
52	MG	BA	3298	1/1	0.87	0.43	59,59,59,59	0
52	MG	D7	101	1/1	0.87	0.28	38,38,38,38	0
52	MG	CA	1608	1/1	0.87	0.37	74,74,74,74	0
52	MG	AA	1612	1/1	0.87	0.65	70,70,70,70	0
52	MG	CA	1624	1/1	0.87	0.28	55,55,55,55	0
52	MG	DA	3323	1/1	0.87	0.10	57,57,57,57	0
52	MG	DA	3229	1/1	0.87	0.34	52,52,52,52	0
52	MG	BA	3355	1/1	0.87	0.26	64,64,64,64	0
52	MG	DA	3085	1/1	0.87	0.12	22,22,22,22	0
52	MG	DA	3284	1/1	0.87	0.81	51,51,51,51	0
52	MG	BA	3112	1/1	0.87	0.20	38,38,38,38	0
52	MG	BA	3165	1/1	0.88	0.18	44,44,44,44	0
52	MG	BA	3174	1/1	0.88	0.36	40,40,40,40	0
52	MG	BA	3021	1/1	0.88	0.41	22,22,22,22	0
52	MG	BA	3362	1/1	0.88	0.10	70,70,70,70	0
52	MG	BA	3179	1/1	0.88	0.52	41,41,41,41	0
52	MG	BP	203	1/1	0.88	0.72	55,55,55,55	0
52	MG	AA	1616	1/1	0.88	0.26	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3114	1/1	0.88	0.36	37,37,37,37	0
52	MG	BA	3202	1/1	0.88	0.12	54,54,54,54	0
52	MG	BA	3271	1/1	0.88	0.44	38,38,38,38	0
52	MG	DA	3240	1/1	0.88	0.43	42,42,42,42	0
52	MG	BA	3049	1/1	0.88	0.42	33,33,33,33	0
52	MG	BA	3054	1/1	0.88	0.20	47,47,47,47	0
52	MG	BA	3285	1/1	0.88	0.40	59,59,59,59	0
52	MG	BA	3288	1/1	0.88	0.27	65,65,65,65	0
52	MG	BA	3289	1/1	0.88	0.23	37,37,37,37	0
52	MG	BA	3056	1/1	0.88	0.14	24,24,24,24	0
52	MG	DA	3319	1/1	0.88	0.18	40,40,40,40	0
52	MG	AA	1646	1/1	0.88	0.23	51,51,51,51	0
52	MG	BA	3353	1/1	0.88	0.30	26,26,26,26	0
52	MG	AA	1648	1/1	0.88	0.19	82,82,82,82	0
52	MG	BA	3356	1/1	0.88	0.37	60,60,60,60	0
52	MG	BA	3159	1/1	0.88	0.59	43,43,43,43	0
52	MG	DA	3016	1/1	0.88	0.60	31,31,31,31	0
52	MG	DA	3193	1/1	0.88	0.24	46,46,46,46	0
52	MG	CA	1636	1/1	0.89	1.11	76,76,76,76	0
52	MG	DA	3153	1/1	0.89	0.47	54,54,54,54	0
52	MG	DA	3159	1/1	0.89	0.49	48,48,48,48	0
52	MG	BA	3139	1/1	0.89	0.50	60,60,60,60	0
52	MG	BA	3313	1/1	0.89	0.31	38,38,38,38	0
52	MG	DA	3270	1/1	0.89	0.33	44,44,44,44	0
52	MG	DA	3164	1/1	0.89	0.24	49,49,49,49	0
52	MG	CA	1643	1/1	0.89	0.57	57,57,57,57	0
52	MG	BA	3314	1/1	0.89	0.35	49,49,49,49	0
52	MG	BA	3026	1/1	0.89	0.34	48,48,48,48	0
52	MG	BA	3195	1/1	0.89	0.38	31,31,31,31	0
52	MG	BA	3037	1/1	0.89	0.55	22,22,22,22	0
52	MG	BA	3085	1/1	0.89	0.14	8,8,8,8	0
52	MG	BA	3090	1/1	0.89	0.45	18,18,18,18	0
52	MG	DA	3286	1/1	0.89	0.41	47,47,47,47	0
52	MG	DA	3026	1/1	0.89	0.36	66,66,66,66	0
52	MG	BA	3093	1/1	0.89	0.44	37,37,37,37	0
52	MG	BA	3164	1/1	0.89	0.26	30,30,30,30	0
52	MG	BA	3286	1/1	0.89	0.38	30,30,30,30	0
52	MG	DA	3083	1/1	0.89	0.50	38,38,38,38	0
52	MG	DA	3213	1/1	0.89	0.35	30,30,30,30	0
52	MG	AA	1643	1/1	0.89	0.65	59,59,59,59	0
52	MG	CA	1607	1/1	0.89	0.52	58,58,58,58	0
52	MG	AA	1652	1/1	0.89	0.42	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3307	1/1	0.89	0.28	41,41,41,41	0
52	MG	CA	1610	1/1	0.89	0.16	90,90,90,90	0
52	MG	DA	3311	1/1	0.89	0.20	45,45,45,45	0
52	MG	AA	1608	1/1	0.89	0.32	80,80,80,80	0
52	MG	DA	3232	1/1	0.89	0.22	50,50,50,50	0
52	MG	DA	3236	1/1	0.89	0.61	43,43,43,43	0
52	MG	DA	3237	1/1	0.89	0.13	46,46,46,46	0
52	MG	BA	3178	1/1	0.89	0.40	30,30,30,30	0
52	MG	DA	3125	1/1	0.89	0.12	45,45,45,45	0
52	MG	CA	1625	1/1	0.89	0.22	54,54,54,54	0
52	MG	BA	3346	1/1	0.89	0.24	60,60,60,60	0
52	MG	DB	201	1/1	0.89	0.46	58,58,58,58	0
52	MG	AA	1615	1/1	0.89	0.29	49,49,49,49	0
52	MG	BA	3249	1/1	0.89	0.66	63,63,63,63	0
52	MG	D0	101	1/1	0.90	0.14	46,46,46,46	0
52	MG	BA	3290	1/1	0.90	0.18	46,46,46,46	0
52	MG	D5	101	1/1	0.90	0.44	35,35,35,35	0
52	MG	BA	3166	1/1	0.90	0.29	47,47,47,47	0
52	MG	DA	3001	1/1	0.90	0.32	56,56,56,56	0
52	MG	DA	3273	1/1	0.90	0.93	52,52,52,52	0
52	MG	AA	1617	1/1	0.90	0.33	57,57,57,57	0
52	MG	BA	3302	1/1	0.90	0.39	46,46,46,46	0
52	MG	BA	3263	1/1	0.90	0.29	26,26,26,26	0
52	MG	BA	3305	1/1	0.90	0.29	43,43,43,43	0
52	MG	DA	3043	1/1	0.90	0.22	42,42,42,42	0
52	MG	DA	3194	1/1	0.90	0.36	47,47,47,47	0
52	MG	DA	3046	1/1	0.90	0.44	48,48,48,48	0
52	MG	CA	1612	1/1	0.90	0.21	68,68,68,68	0
52	MG	DA	3048	1/1	0.90	0.41	35,35,35,35	0
52	MG	BA	3264	1/1	0.90	0.14	48,48,48,48	0
52	MG	DA	3209	1/1	0.90	0.97	58,58,58,58	0
52	MG	CA	1620	1/1	0.90	0.29	58,58,58,58	0
52	MG	CA	1621	1/1	0.90	0.36	54,54,54,54	0
52	MG	DA	3089	1/1	0.90	0.46	29,29,29,29	0
52	MG	DA	3302	1/1	0.90	0.39	64,64,64,64	0
52	MG	AA	1654	1/1	0.90	0.25	69,69,69,69	0
52	MG	DA	3222	1/1	0.90	0.57	44,44,44,44	0
52	MG	BA	3001	1/1	0.90	0.41	46,46,46,46	0
52	MG	CA	1626	1/1	0.90	0.35	65,65,65,65	0
52	MG	CA	1627	1/1	0.90	0.64	75,75,75,75	0
52	MG	BA	3003	1/1	0.90	0.89	52,52,52,52	0
52	MG	DA	3313	1/1	0.90	0.28	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3126	1/1	0.90	0.31	33,33,33,33	0
52	MG	BA	3162	1/1	0.90	0.52	60,60,60,60	0
52	MG	DA	3239	1/1	0.90	0.27	29,29,29,29	0
52	MG	BA	3088	1/1	0.90	0.47	34,34,34,34	0
52	MG	DA	3136	1/1	0.90	0.42	33,33,33,33	0
52	MG	BA	3325	1/1	0.90	0.69	58,58,58,58	0
52	MG	BA	3196	1/1	0.90	0.20	30,30,30,30	0
52	MG	AA	1630	1/1	0.90	0.51	51,51,51,51	0
52	MG	DA	3147	1/1	0.90	0.43	30,30,30,30	0
52	MG	BA	3251	1/1	0.90	0.10	40,40,40,40	0
52	MG	BA	3331	1/1	0.90	0.30	49,49,49,49	0
53	ZN	AN	101	1/1	0.90	0.15	157,157,157,157	0
52	MG	DA	3065	1/1	0.91	0.22	39,39,39,39	0
52	MG	BA	3147	1/1	0.91	0.60	37,37,37,37	0
52	MG	BA	3268	1/1	0.91	0.43	39,39,39,39	0
52	MG	BA	3303	1/1	0.91	0.20	65,65,65,65	0
52	MG	AA	1606	1/1	0.91	0.43	89,89,89,89	0
52	MG	DA	3275	1/1	0.91	0.39	60,60,60,60	0
52	MG	BA	3069	1/1	0.91	0.36	45,45,45,45	0
52	MG	BF	301	1/1	0.91	0.23	51,51,51,51	0
52	MG	CA	1639	1/1	0.91	1.02	70,70,70,70	0
52	MG	DA	3207	1/1	0.91	0.28	56,56,56,56	0
52	MG	DA	3109	1/1	0.91	0.34	42,42,42,42	0
52	MG	DA	3282	1/1	0.91	0.15	48,48,48,48	0
52	MG	BA	3310	1/1	0.91	0.45	59,59,59,59	0
52	MG	DA	3210	1/1	0.91	0.20	43,43,43,43	0
52	MG	DA	3120	1/1	0.91	0.30	55,55,55,55	0
52	MG	DA	3288	1/1	0.91	0.36	51,51,51,51	0
52	MG	DA	3122	1/1	0.91	0.28	48,48,48,48	0
52	MG	DA	3214	1/1	0.91	0.37	48,48,48,48	0
52	MG	CA	1601	1/1	0.91	0.17	72,72,72,72	0
52	MG	BA	3128	1/1	0.91	0.30	39,39,39,39	0
52	MG	AA	1639	1/1	0.91	0.27	49,49,49,49	0
52	MG	BA	3053	1/1	0.91	0.48	27,27,27,27	0
52	MG	DA	3224	1/1	0.91	0.45	54,54,54,54	0
52	MG	BA	3211	1/1	0.91	0.28	34,34,34,34	0
52	MG	DA	3137	1/1	0.91	0.42	31,31,31,31	0
52	MG	BA	3347	1/1	0.91	0.17	43,43,43,43	0
52	MG	DA	3233	1/1	0.91	0.57	52,52,52,52	0
52	MG	BA	3348	1/1	0.91	0.35	38,38,38,38	0
52	MG	BA	3349	1/1	0.91	0.39	33,33,33,33	0
52	MG	CA	1614	1/1	0.91	0.12	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3017	1/1	0.91	0.34	34,34,34,34	0
52	MG	DA	3242	1/1	0.91	0.21	53,53,53,53	0
52	MG	DA	3021	1/1	0.91	0.30	48,48,48,48	0
52	MG	BA	3214	1/1	0.91	0.12	12,12,12,12	0
52	MG	BA	3318	1/1	0.91	0.51	40,40,40,40	0
52	MG	DA	3249	1/1	0.91	0.31	51,51,51,51	0
52	MG	BA	3223	1/1	0.91	0.25	41,41,41,41	0
52	MG	DA	3255	1/1	0.91	0.20	50,50,50,50	0
52	MG	BA	3181	1/1	0.91	0.43	35,35,35,35	0
52	MG	BA	3291	1/1	0.91	0.19	38,38,38,38	0
52	MG	AA	1610	1/1	0.91	0.17	41,41,41,41	0
52	MG	DX	101	1/1	0.91	0.34	63,63,63,63	0
52	MG	DA	3185	1/1	0.91	0.59	53,53,53,53	0
53	ZN	CN	101	1/1	0.91	0.18	139,139,139,139	0
54	K	DA	3329	1/1	0.91	0.18	55,55,55,55	0
52	MG	BA	3338	1/1	0.92	0.53	50,50,50,50	0
52	MG	DA	3002	1/1	0.92	0.48	29,29,29,29	0
52	MG	DA	3258	1/1	0.92	0.23	52,52,52,52	0
52	MG	DA	3152	1/1	0.92	0.33	30,30,30,30	0
52	MG	BA	3258	1/1	0.92	0.39	30,30,30,30	0
52	MG	DA	3154	1/1	0.92	0.18	49,49,49,49	0
52	MG	DA	3157	1/1	0.92	0.60	52,52,52,52	0
52	MG	DA	3158	1/1	0.92	0.14	53,53,53,53	0
52	MG	DA	3014	1/1	0.92	0.40	56,56,56,56	0
52	MG	BA	3231	1/1	0.92	0.24	35,35,35,35	0
52	MG	BA	3135	1/1	0.92	0.43	28,28,28,28	0
52	MG	BA	3104	1/1	0.92	0.54	31,31,31,31	0
52	MG	BA	3188	1/1	0.92	0.17	57,57,57,57	0
52	MG	BA	3269	1/1	0.92	0.36	43,43,43,43	0
52	MG	BA	3237	1/1	0.92	0.62	40,40,40,40	0
52	MG	BA	3105	1/1	0.92	0.59	34,34,34,34	0
52	MG	CA	1622	1/1	0.92	0.39	51,51,51,51	0
52	MG	BA	3059	1/1	0.92	0.28	26,26,26,26	0
52	MG	DA	3061	1/1	0.92	0.29	36,36,36,36	0
52	MG	BA	3274	1/1	0.92	0.46	36,36,36,36	0
52	MG	BA	3315	1/1	0.92	0.94	52,52,52,52	0
52	MG	DA	3197	1/1	0.92	0.51	46,46,46,46	0
52	MG	DA	3074	1/1	0.92	0.54	55,55,55,55	0
52	MG	DA	3080	1/1	0.92	0.75	46,46,46,46	0
52	MG	DA	3081	1/1	0.92	0.78	48,48,48,48	0
52	MG	DA	3293	1/1	0.92	0.48	62,62,62,62	0
52	MG	BA	3276	1/1	0.92	0.31	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3295	1/1	0.92	0.13	46,46,46,46	0
52	MG	BA	3242	1/1	0.92	0.51	44,44,44,44	0
52	MG	BA	3282	1/1	0.92	0.36	55,55,55,55	0
52	MG	CA	1632	1/1	0.92	0.29	63,63,63,63	0
52	MG	BA	3061	1/1	0.92	0.32	27,27,27,27	0
52	MG	DA	3101	1/1	0.92	0.14	28,28,28,28	0
52	MG	BA	3246	1/1	0.92	0.58	46,46,46,46	0
52	MG	DA	3107	1/1	0.92	0.41	30,30,30,30	0
52	MG	AA	1640	1/1	0.92	0.42	67,67,67,67	0
52	MG	DA	3308	1/1	0.92	0.22	36,36,36,36	0
52	MG	DA	3221	1/1	0.92	0.54	40,40,40,40	0
52	MG	DA	3110	1/1	0.92	0.61	45,45,45,45	0
52	MG	DA	3312	1/1	0.92	0.23	55,55,55,55	0
52	MG	DA	3112	1/1	0.92	0.28	30,30,30,30	0
52	MG	BA	3176	1/1	0.92	0.39	45,45,45,45	0
52	MG	DA	3117	1/1	0.92	0.26	45,45,45,45	0
52	MG	DA	3230	1/1	0.92	0.32	57,57,57,57	0
52	MG	BB	201	1/1	0.92	0.49	35,35,35,35	0
52	MG	AA	1629	1/1	0.92	0.22	41,41,41,41	0
52	MG	CA	1644	1/1	0.92	0.40	62,62,62,62	0
52	MG	BB	205	1/1	0.92	0.12	64,64,64,64	0
52	MG	DA	3327	1/1	0.92	0.15	60,60,60,60	0
52	MG	DA	3127	1/1	0.92	0.27	38,38,38,38	0
52	MG	CA	1648	1/1	0.92	0.79	70,70,70,70	0
52	MG	DB	202	1/1	0.92	0.39	51,51,51,51	0
52	MG	DB	203	1/1	0.92	0.38	46,46,46,46	0
52	MG	BA	3155	1/1	0.92	0.23	55,55,55,55	0
52	MG	DA	3133	1/1	0.92	0.68	42,42,42,42	0
52	MG	DU	201	1/1	0.92	0.21	60,60,60,60	0
52	MG	BA	3294	1/1	0.92	0.13	38,38,38,38	0
52	MG	BX	101	1/1	0.92	0.24	38,38,38,38	0
52	MG	BA	3333	1/1	0.92	0.15	51,51,51,51	0
52	MG	BA	3034	1/1	0.92	0.34	61,61,61,61	0
52	MG	DA	3004	1/1	0.93	0.36	29,29,29,29	0
52	MG	CA	1605	1/1	0.93	0.20	84,84,84,84	0
52	MG	DA	3248	1/1	0.93	0.32	82,82,82,82	0
52	MG	DA	3012	1/1	0.93	0.40	25,25,25,25	0
52	MG	CA	1606	1/1	0.93	0.59	44,44,44,44	0
52	MG	DA	3015	1/1	0.93	0.32	39,39,39,39	0
52	MG	DA	3257	1/1	0.93	0.46	38,38,38,38	0
52	MG	BA	3334	1/1	0.93	0.30	24,24,24,24	0
52	MG	BA	3244	1/1	0.93	0.23	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	CA	1609	1/1	0.93	0.11	34,34,34,34	0
52	MG	BA	3197	1/1	0.93	0.56	47,47,47,47	0
52	MG	BA	3201	1/1	0.93	0.78	51,51,51,51	0
52	MG	DA	3266	1/1	0.93	0.18	74,74,74,74	0
52	MG	BA	3293	1/1	0.93	0.37	36,36,36,36	0
52	MG	DA	3161	1/1	0.93	0.67	57,57,57,57	0
52	MG	BA	3064	1/1	0.93	0.42	52,52,52,52	0
52	MG	CA	1615	1/1	0.93	0.37	69,69,69,69	0
52	MG	CA	1616	1/1	0.93	0.49	67,67,67,67	0
52	MG	DA	3165	1/1	0.93	0.46	35,35,35,35	0
52	MG	DA	3049	1/1	0.93	0.49	42,42,42,42	0
52	MG	DA	3167	1/1	0.93	0.17	44,44,44,44	0
52	MG	DA	3168	1/1	0.93	0.36	35,35,35,35	0
52	MG	DA	3051	1/1	0.93	0.45	36,36,36,36	0
52	MG	DA	3172	1/1	0.93	0.42	56,56,56,56	0
52	MG	DA	3057	1/1	0.93	0.30	35,35,35,35	0
52	MG	DA	3182	1/1	0.93	0.13	39,39,39,39	0
52	MG	CA	1619	1/1	0.93	0.47	47,47,47,47	0
52	MG	DA	3064	1/1	0.93	0.46	47,47,47,47	0
52	MG	BA	3138	1/1	0.93	0.53	34,34,34,34	0
52	MG	BA	3111	1/1	0.93	0.21	17,17,17,17	0
52	MG	DA	3290	1/1	0.93	0.24	46,46,46,46	0
52	MG	BA	3300	1/1	0.93	0.54	48,48,48,48	0
52	MG	BA	3253	1/1	0.93	0.74	42,42,42,42	0
52	MG	BA	3004	1/1	0.93	0.43	28,28,28,28	0
52	MG	BA	3146	1/1	0.93	0.33	37,37,37,37	0
52	MG	DA	3297	1/1	0.93	0.24	21,21,21,21	0
52	MG	DA	3200	1/1	0.93	0.42	46,46,46,46	0
52	MG	DA	3202	1/1	0.93	0.30	64,64,64,64	0
52	MG	BA	3217	1/1	0.93	0.21	38,38,38,38	0
52	MG	BA	3218	1/1	0.93	0.49	27,27,27,27	0
52	MG	BA	3220	1/1	0.93	0.28	46,46,46,46	0
52	MG	BA	3071	1/1	0.93	0.48	33,33,33,33	0
52	MG	DA	3095	1/1	0.93	0.22	39,39,39,39	0
52	MG	CA	1634	1/1	0.93	0.19	63,63,63,63	0
52	MG	DA	3103	1/1	0.93	0.69	32,32,32,32	0
52	MG	BA	3225	1/1	0.93	0.12	20,20,20,20	0
52	MG	DA	3310	1/1	0.93	0.58	56,56,56,56	0
52	MG	BA	3228	1/1	0.93	0.29	21,21,21,21	0
52	MG	DA	3218	1/1	0.93	0.29	41,41,41,41	0
52	MG	DA	3108	1/1	0.93	0.39	30,30,30,30	0
52	MG	BA	3150	1/1	0.93	0.32	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
52	MG	BA	3115	1/1	0.93	0.10	49,49,49,49	0
52	MG	BA	3117	1/1	0.93	0.15	42,42,42,42	0
52	MG	AA	1641	1/1	0.93	0.24	57,57,57,57	0
52	MG	DA	3321	1/1	0.93	0.13	34,34,34,34	0
52	MG	BA	3127	1/1	0.93	0.55	39,39,39,39	0
52	MG	DA	3225	1/1	0.93	0.14	51,51,51,51	0
52	MG	BA	3278	1/1	0.93	0.24	39,39,39,39	0
52	MG	DA	3326	1/1	0.93	0.30	52,52,52,52	0
52	MG	BA	3158	1/1	0.93	0.39	30,30,30,30	0
52	MG	BA	3075	1/1	0.93	0.41	44,44,44,44	0
52	MG	DA	3124	1/1	0.93	0.19	42,42,42,42	0
52	MG	BR	201	1/1	0.93	0.48	24,24,24,24	0
52	MG	DA	3126	1/1	0.93	0.30	42,42,42,42	0
52	MG	BA	3283	1/1	0.93	0.23	33,33,33,33	0
52	MG	BA	3240	1/1	0.93	0.13	42,42,42,42	0
52	MG	BA	3048	1/1	0.93	0.47	23,23,23,23	0
52	MG	CA	1603	1/1	0.93	0.36	44,44,44,44	0
52	MG	BA	3243	1/1	0.93	0.32	57,57,57,57	0
52	MG	DA	3244	1/1	0.93	0.22	32,32,32,32	0
52	MG	DA	3245	1/1	0.93	0.25	38,38,38,38	0
55	ERY	BA	3364	51/51	0.93	0.39	94,94,94,94	0
55	ERY	DA	3330	51/51	0.93	0.33	94,94,94,94	0
52	MG	DA	3037	1/1	0.94	0.70	35,35,35,35	0
52	MG	DA	3150	1/1	0.94	0.71	72,72,72,72	0
52	MG	DA	3250	1/1	0.94	0.52	41,41,41,41	0
52	MG	DA	3251	1/1	0.94	0.17	57,57,57,57	0
52	MG	DA	3151	1/1	0.94	0.60	47,47,47,47	0
52	MG	DA	3253	1/1	0.94	0.17	58,58,58,58	0
52	MG	DA	3254	1/1	0.94	0.17	68,68,68,68	0
52	MG	DA	3038	1/1	0.94	0.51	26,26,26,26	0
52	MG	DA	3256	1/1	0.94	0.41	82,82,82,82	0
52	MG	DA	3039	1/1	0.94	0.64	53,53,53,53	0
52	MG	BA	3259	1/1	0.94	0.31	23,23,23,23	0
52	MG	DA	3156	1/1	0.94	0.18	39,39,39,39	0
52	MG	BA	3039	1/1	0.94	0.51	32,32,32,32	0
52	MG	BA	3307	1/1	0.94	0.42	44,44,44,44	0
52	MG	BA	3308	1/1	0.94	0.19	41,41,41,41	0
52	MG	B0	101	1/1	0.94	0.18	37,37,37,37	0
52	MG	BA	3170	1/1	0.94	0.68	31,31,31,31	0
52	MG	B5	101	1/1	0.94	0.44	40,40,40,40	0
52	MG	DA	3054	1/1	0.94	0.28	43,43,43,43	0
52	MG	BA	3227	1/1	0.94	0.54	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	B5	102	1/1	0.94	0.42	56,56,56,56	0
52	MG	DA	3274	1/1	0.94	0.11	36,36,36,36	0
52	MG	CA	1629	1/1	0.94	0.17	67,67,67,67	0
52	MG	BA	3229	1/1	0.94	0.73	45,45,45,45	0
52	MG	DA	3169	1/1	0.94	0.23	35,35,35,35	0
52	MG	DA	3067	1/1	0.94	0.38	49,49,49,49	0
52	MG	BA	3316	1/1	0.94	0.33	31,31,31,31	0
52	MG	DA	3174	1/1	0.94	0.14	67,67,67,67	0
52	MG	DA	3175	1/1	0.94	0.29	44,44,44,44	0
52	MG	DA	3177	1/1	0.94	0.33	34,34,34,34	0
52	MG	CA	1633	1/1	0.94	0.55	48,48,48,48	0
52	MG	DA	3285	1/1	0.94	0.12	49,49,49,49	0
52	MG	DA	3181	1/1	0.94	0.45	44,44,44,44	0
52	MG	BA	3089	1/1	0.94	0.30	12,12,12,12	0
52	MG	BA	3051	1/1	0.94	0.36	17,17,17,17	0
52	MG	DA	3188	1/1	0.94	0.30	44,44,44,44	0
52	MG	DA	3082	1/1	0.94	0.34	47,47,47,47	0
52	MG	DA	3292	1/1	0.94	0.18	54,54,54,54	0
52	MG	AA	1605	1/1	0.94	0.30	69,69,69,69	0
52	MG	BA	3142	1/1	0.94	0.60	33,33,33,33	0
52	MG	BA	3144	1/1	0.94	0.59	37,37,37,37	0
52	MG	BP	201	1/1	0.94	0.54	39,39,39,39	0
52	MG	CA	1640	1/1	0.94	0.25	42,42,42,42	0
52	MG	DA	3299	1/1	0.94	0.39	57,57,57,57	0
52	MG	CA	1642	1/1	0.94	0.32	55,55,55,55	0
52	MG	DA	3097	1/1	0.94	0.25	33,33,33,33	0
52	MG	DA	3100	1/1	0.94	0.35	37,37,37,37	0
52	MG	DA	3204	1/1	0.94	0.47	53,53,53,53	0
52	MG	BP	202	1/1	0.94	0.21	0,0,0,0	0
52	MG	DA	3102	1/1	0.94	0.63	36,36,36,36	0
52	MG	BA	3326	1/1	0.94	0.54	37,37,37,37	0
52	MG	CA	1645	1/1	0.94	0.88	64,64,64,64	0
52	MG	DA	3106	1/1	0.94	0.76	63,63,63,63	0
52	MG	BQ	202	1/1	0.94	0.25	38,38,38,38	0
52	MG	CA	1647	1/1	0.94	0.38	66,66,66,66	0
52	MG	BA	3185	1/1	0.94	0.26	46,46,46,46	0
52	MG	AA	1631	1/1	0.94	0.67	70,70,70,70	0
52	MG	BA	3329	1/1	0.94	0.29	32,32,32,32	0
52	MG	DA	3114	1/1	0.94	0.27	47,47,47,47	0
52	MG	BA	3101	1/1	0.94	0.49	43,43,43,43	0
52	MG	AA	1632	1/1	0.94	0.63	68,68,68,68	0
52	MG	AA	1603	1/1	0.94	0.31	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3110	1/1	0.94	0.47	36,36,36,36	0
52	MG	BA	3200	1/1	0.94	0.55	36,36,36,36	0
52	MG	BA	3022	1/1	0.94	0.20	37,37,37,37	0
52	MG	BA	3337	1/1	0.94	0.72	47,47,47,47	0
52	MG	AA	1619	1/1	0.94	0.36	49,49,49,49	0
52	MG	BA	3068	1/1	0.94	0.53	35,35,35,35	0
52	MG	DA	3128	1/1	0.94	0.29	47,47,47,47	0
52	MG	BA	3032	1/1	0.94	0.38	28,28,28,28	0
52	MG	BA	3160	1/1	0.94	0.77	62,62,62,62	0
52	MG	AA	1637	1/1	0.94	0.57	53,53,53,53	0
52	MG	DP	201	1/1	0.94	0.32	27,27,27,27	0
52	MG	DA	3018	1/1	0.94	0.24	23,23,23,23	0
52	MG	BA	3215	1/1	0.94	0.58	41,41,41,41	0
52	MG	DA	3138	1/1	0.94	0.48	47,47,47,47	0
53	ZN	AD	301	1/1	0.94	0.28	120,120,120,120	0
52	MG	AA	1620	1/1	0.94	0.59	51,51,51,51	0
52	MG	DA	3142	1/1	0.94	0.55	37,37,37,37	0
52	MG	DA	3031	1/1	0.94	0.08	62,62,62,62	0
52	MG	DA	3032	1/1	0.94	0.42	25,25,25,25	0
52	MG	DA	3146	1/1	0.94	0.43	52,52,52,52	0
52	MG	DA	3013	1/1	0.95	0.50	18,18,18,18	0
52	MG	BA	3077	1/1	0.95	0.18	21,21,21,21	0
52	MG	BA	3261	1/1	0.95	0.08	27,27,27,27	0
52	MG	BA	3081	1/1	0.95	0.41	23,23,23,23	0
52	MG	BA	3082	1/1	0.95	0.35	33,33,33,33	0
52	MG	CA	1617	1/1	0.95	0.50	54,54,54,54	0
52	MG	DA	3198	1/1	0.95	0.19	38,38,38,38	0
52	MG	DA	3119	1/1	0.95	0.21	50,50,50,50	0
52	MG	BA	3230	1/1	0.95	0.09	21,21,21,21	0
52	MG	DA	3022	1/1	0.95	0.37	39,39,39,39	0
52	MG	BA	3002	1/1	0.95	0.45	28,28,28,28	0
52	MG	DA	3281	1/1	0.95	0.61	51,51,51,51	0
52	MG	BA	3192	1/1	0.95	0.25	37,37,37,37	0
52	MG	BA	3234	1/1	0.95	0.56	53,53,53,53	0
52	MG	BA	3157	1/1	0.95	0.49	22,22,22,22	0
52	MG	BA	3354	1/1	0.95	0.27	34,34,34,34	0
52	MG	BA	3120	1/1	0.95	0.22	45,45,45,45	0
52	MG	AA	1618	1/1	0.95	0.11	59,59,59,59	0
52	MG	BA	3275	1/1	0.95	0.36	40,40,40,40	0
52	MG	BA	3058	1/1	0.95	0.30	35,35,35,35	0
52	MG	DA	3135	1/1	0.95	0.38	29,29,29,29	0
52	MG	BA	3359	1/1	0.95	0.27	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3161	1/1	0.95	0.31	43,43,43,43	0
52	MG	BA	3279	1/1	0.95	0.29	37,37,37,37	0
52	MG	DA	3139	1/1	0.95	0.52	44,44,44,44	0
52	MG	BA	3280	1/1	0.95	0.21	33,33,33,33	0
52	MG	BA	3320	1/1	0.95	0.48	50,50,50,50	0
52	MG	DA	3056	1/1	0.95	0.22	14,14,14,14	0
52	MG	BB	202	1/1	0.95	0.34	26,26,26,26	0
52	MG	DA	3226	1/1	0.95	0.23	40,40,40,40	0
52	MG	DA	3227	1/1	0.95	0.63	42,42,42,42	0
52	MG	DA	3228	1/1	0.95	0.12	52,52,52,52	0
52	MG	AA	1614	1/1	0.95	0.40	49,49,49,49	0
52	MG	DA	3063	1/1	0.95	0.41	44,44,44,44	0
52	MG	BA	3323	1/1	0.95	0.20	32,32,32,32	0
52	MG	BD	301	1/1	0.95	0.36	25,25,25,25	0
52	MG	BA	3013	1/1	0.95	0.43	24,24,24,24	0
52	MG	BA	3062	1/1	0.95	0.10	19,19,19,19	0
52	MG	BA	3041	1/1	0.95	0.30	24,24,24,24	0
52	MG	DA	3075	1/1	0.95	0.37	36,36,36,36	0
52	MG	BA	3098	1/1	0.95	0.23	39,39,39,39	0
52	MG	DA	3315	1/1	0.95	0.40	48,48,48,48	0
52	MG	DA	3241	1/1	0.95	0.43	36,36,36,36	0
52	MG	BA	3287	1/1	0.95	0.33	44,44,44,44	0
52	MG	BA	3099	1/1	0.95	0.26	21,21,21,21	0
52	MG	BA	3247	1/1	0.95	0.32	31,31,31,31	0
52	MG	AA	1627	1/1	0.95	0.19	51,51,51,51	0
52	MG	DA	3322	1/1	0.95	0.43	48,48,48,48	0
52	MG	DA	3088	1/1	0.95	0.35	32,32,32,32	0
52	MG	AA	1602	1/1	0.95	0.59	41,41,41,41	0
52	MG	CA	1650	1/1	0.95	0.25	58,58,58,58	0
52	MG	AA	1647	1/1	0.95	0.38	62,62,62,62	0
52	MG	DA	3094	1/1	0.95	0.56	34,34,34,34	0
52	MG	BA	3335	1/1	0.95	0.17	44,44,44,44	0
52	MG	BA	3221	1/1	0.95	0.54	29,29,29,29	0
52	MG	DA	3098	1/1	0.95	0.33	28,28,28,28	0
52	MG	DA	3099	1/1	0.95	0.51	42,42,42,42	0
52	MG	BA	3296	1/1	0.95	0.22	43,43,43,43	0
52	MG	BA	3222	1/1	0.95	0.38	32,32,32,32	0
52	MG	BA	3340	1/1	0.95	0.34	45,45,45,45	0
52	MG	DR	201	1/1	0.95	0.44	37,37,37,37	0
52	MG	BA	3029	1/1	0.95	0.24	16,16,16,16	0
52	MG	DA	3259	1/1	0.95	0.28	49,49,49,49	0
52	MG	DA	3179	1/1	0.95	0.72	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3031	1/1	0.95	0.32	50,50,50,50	0
52	MG	DA	3007	1/1	0.95	0.28	53,53,53,53	0
52	MG	DA	3009	1/1	0.95	0.40	49,49,49,49	0
52	MG	DA	3186	1/1	0.95	0.66	45,45,45,45	0
52	MG	BA	3343	1/1	0.95	0.24	44,44,44,44	0
52	MG	DA	3079	1/1	0.96	0.23	41,41,41,41	0
52	MG	BA	3182	1/1	0.96	0.32	43,43,43,43	0
52	MG	BB	207	1/1	0.96	0.26	62,62,62,62	0
52	MG	BA	3109	1/1	0.96	0.40	31,31,31,31	0
52	MG	BE	301	1/1	0.96	0.41	25,25,25,25	0
52	MG	BA	3322	1/1	0.96	0.31	50,50,50,50	0
52	MG	DA	3086	1/1	0.96	0.18	25,25,25,25	0
52	MG	DA	3087	1/1	0.96	0.21	34,34,34,34	0
52	MG	AA	1622	1/1	0.96	0.64	63,63,63,63	0
52	MG	DA	3173	1/1	0.96	0.44	41,41,41,41	0
52	MG	BA	3324	1/1	0.96	0.40	40,40,40,40	0
52	MG	BA	3277	1/1	0.96	0.18	41,41,41,41	0
52	MG	DA	3176	1/1	0.96	0.44	44,44,44,44	0
52	MG	DA	3091	1/1	0.96	0.46	31,31,31,31	0
52	MG	BA	3232	1/1	0.96	0.15	4,4,4,4	0
52	MG	DA	3093	1/1	0.96	0.53	48,48,48,48	0
52	MG	BA	3149	1/1	0.96	0.27	19,19,19,19	0
52	MG	BA	3046	1/1	0.96	0.31	28,28,28,28	0
52	MG	DA	3183	1/1	0.96	0.57	56,56,56,56	0
52	MG	DA	3096	1/1	0.96	0.26	45,45,45,45	0
52	MG	BA	3190	1/1	0.96	0.38	23,23,23,23	0
52	MG	BA	3191	1/1	0.96	0.32	21,21,21,21	0
52	MG	BA	3030	1/1	0.96	0.22	15,15,15,15	0
52	MG	BA	3086	1/1	0.96	0.25	24,24,24,24	0
52	MG	BA	3067	1/1	0.96	0.54	28,28,28,28	0
52	MG	DA	3006	1/1	0.96	0.54	30,30,30,30	0
52	MG	BA	3116	1/1	0.96	0.18	55,55,55,55	0
52	MG	BA	3199	1/1	0.96	0.30	20,20,20,20	0
52	MG	BA	3009	1/1	0.96	0.39	27,27,27,27	0
52	MG	AA	1625	1/1	0.96	0.40	41,41,41,41	0
52	MG	BA	3121	1/1	0.96	0.44	38,38,38,38	0
52	MG	CA	1611	1/1	0.96	0.42	65,65,65,65	0
52	MG	DA	3203	1/1	0.96	0.51	39,39,39,39	0
52	MG	BA	3339	1/1	0.96	0.08	53,53,53,53	0
52	MG	BA	3292	1/1	0.96	0.56	56,56,56,56	0
52	MG	DA	3296	1/1	0.96	0.44	55,55,55,55	0
52	MG	BA	3203	1/1	0.96	0.38	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	BA	3123	1/1	0.96	0.39	39,39,39,39	0
52	MG	BA	3207	1/1	0.96	0.35	27,27,27,27	0
52	MG	BA	3015	1/1	0.96	0.29	33,33,33,33	0
52	MG	DA	3027	1/1	0.96	0.51	34,34,34,34	0
52	MG	DA	3121	1/1	0.96	0.80	44,44,44,44	0
52	MG	DA	3303	1/1	0.96	0.13	47,47,47,47	0
52	MG	DA	3028	1/1	0.96	0.36	36,36,36,36	0
52	MG	BA	3210	1/1	0.96	0.34	33,33,33,33	0
52	MG	BA	3095	1/1	0.96	0.38	33,33,33,33	0
52	MG	DA	3033	1/1	0.96	0.28	43,43,43,43	0
52	MG	DA	3035	1/1	0.96	0.36	32,32,32,32	0
52	MG	BA	3212	1/1	0.96	0.52	26,26,26,26	0
52	MG	BA	3255	1/1	0.96	0.10	24,24,24,24	0
52	MG	DA	3129	1/1	0.96	0.16	54,54,54,54	0
52	MG	CA	1623	1/1	0.96	0.26	62,62,62,62	0
52	MG	AA	1636	1/1	0.96	0.28	44,44,44,44	0
52	MG	DA	3041	1/1	0.96	0.30	31,31,31,31	0
52	MG	DA	3134	1/1	0.96	0.19	67,67,67,67	0
52	MG	BA	3038	1/1	0.96	0.43	14,14,14,14	0
52	MG	DA	3045	1/1	0.96	0.39	29,29,29,29	0
52	MG	BA	3351	1/1	0.96	0.28	39,39,39,39	0
52	MG	BA	3306	1/1	0.96	0.33	52,52,52,52	0
52	MG	BA	3131	1/1	0.96	0.32	21,21,21,21	0
52	MG	DA	3140	1/1	0.96	0.41	52,52,52,52	0
52	MG	BA	3260	1/1	0.96	0.28	37,37,37,37	0
52	MG	BA	3309	1/1	0.96	0.29	55,55,55,55	0
52	MG	DA	3238	1/1	0.96	0.08	59,59,59,59	0
52	MG	DA	3052	1/1	0.96	0.44	40,40,40,40	0
52	MG	CA	1631	1/1	0.96	0.09	73,73,73,73	0
52	MG	DA	3145	1/1	0.96	0.20	59,59,59,59	0
52	MG	BA	3168	1/1	0.96	0.24	28,28,28,28	0
52	MG	BA	3076	1/1	0.96	0.23	21,21,21,21	0
52	MG	DE	301	1/1	0.96	0.29	23,23,23,23	0
52	MG	DA	3058	1/1	0.96	0.35	48,48,48,48	0
52	MG	AA	1649	1/1	0.96	0.68	62,62,62,62	0
52	MG	BA	3102	1/1	0.96	0.37	23,23,23,23	0
52	MG	BA	3267	1/1	0.96	0.48	37,37,37,37	0
52	MG	BA	3080	1/1	0.96	0.59	17,17,17,17	0
52	MG	DA	3155	1/1	0.96	0.37	30,30,30,30	0
52	MG	BA	3224	1/1	0.96	0.48	30,30,30,30	0
52	MG	BA	3141	1/1	0.96	0.48	32,32,32,32	0
52	MG	DA	3072	1/1	0.96	0.73	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	AA	1633	1/1	0.96	0.06	39,39,39,39	0
52	MG	BA	3108	1/1	0.96	0.53	42,42,42,42	0
52	MG	DA	3077	1/1	0.96	0.19	33,33,33,33	0
52	MG	BA	3052	1/1	0.97	0.42	24,24,24,24	0
52	MG	BA	3153	1/1	0.97	0.32	47,47,47,47	0
52	MG	DA	3029	1/1	0.97	0.39	45,45,45,45	0
52	MG	DA	3180	1/1	0.97	0.59	45,45,45,45	0
52	MG	BA	3011	1/1	0.97	0.48	19,19,19,19	0
52	MG	BA	3113	1/1	0.97	0.49	33,33,33,33	0
52	MG	BA	3250	1/1	0.97	0.20	37,37,37,37	0
52	MG	DA	3184	1/1	0.97	0.33	57,57,57,57	0
52	MG	BA	3204	1/1	0.97	0.59	43,43,43,43	0
52	MG	DA	3111	1/1	0.97	0.47	31,31,31,31	0
52	MG	DA	3272	1/1	0.97	0.37	42,42,42,42	0
52	MG	BA	3252	1/1	0.97	0.40	30,30,30,30	0
52	MG	DA	3113	1/1	0.97	0.28	52,52,52,52	0
52	MG	BA	3205	1/1	0.97	0.61	43,43,43,43	0
52	MG	AA	1601	1/1	0.97	0.16	59,59,59,59	0
52	MG	B1	101	1/1	0.97	0.33	35,35,35,35	0
52	MG	DA	3118	1/1	0.97	0.37	35,35,35,35	0
52	MG	DA	3195	1/1	0.97	0.42	42,42,42,42	0
52	MG	DA	3196	1/1	0.97	0.44	45,45,45,45	0
52	MG	BA	3256	1/1	0.97	0.12	39,39,39,39	0
52	MG	BA	3084	1/1	0.97	0.43	21,21,21,21	0
52	MG	BA	3033	1/1	0.97	0.20	27,27,27,27	0
52	MG	BA	3118	1/1	0.97	0.48	40,40,40,40	0
52	MG	DA	3201	1/1	0.97	0.36	30,30,30,30	0
52	MG	BA	3119	1/1	0.97	0.30	32,32,32,32	0
52	MG	DA	3287	1/1	0.97	0.25	40,40,40,40	0
52	MG	BA	3163	1/1	0.97	0.37	31,31,31,31	0
52	MG	BA	3016	1/1	0.97	0.43	21,21,21,21	0
52	MG	BA	3216	1/1	0.97	0.31	26,26,26,26	0
52	MG	BB	203	1/1	0.97	0.06	41,41,41,41	0
52	MG	BA	3060	1/1	0.97	0.34	27,27,27,27	0
52	MG	DA	3055	1/1	0.97	0.26	30,30,30,30	0
52	MG	BA	3266	1/1	0.97	0.23	48,48,48,48	0
52	MG	BB	206	1/1	0.97	0.59	50,50,50,50	0
52	MG	DA	3211	1/1	0.97	0.32	35,35,35,35	0
52	MG	BA	3122	1/1	0.97	0.33	35,35,35,35	0
52	MG	DA	3059	1/1	0.97	0.40	26,26,26,26	0
52	MG	DA	3060	1/1	0.97	0.30	38,38,38,38	0
52	MG	DA	3215	1/1	0.97	0.21	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3217	1/1	0.97	0.27	23,23,23,23	0
52	MG	BA	3219	1/1	0.97	0.55	25,25,25,25	0
52	MG	BA	3036	1/1	0.97	0.51	19,19,19,19	0
52	MG	BA	3169	1/1	0.97	0.59	38,38,38,38	0
52	MG	BA	3017	1/1	0.97	0.41	32,32,32,32	0
52	MG	DA	3066	1/1	0.97	0.41	40,40,40,40	0
52	MG	BA	3091	1/1	0.97	0.17	20,20,20,20	0
52	MG	DA	3068	1/1	0.97	0.61	56,56,56,56	0
52	MG	BA	3063	1/1	0.97	0.34	36,36,36,36	0
52	MG	DA	3070	1/1	0.97	0.26	28,28,28,28	0
52	MG	DA	3071	1/1	0.97	0.42	35,35,35,35	0
52	MG	BQ	201	1/1	0.97	0.19	19,19,19,19	0
52	MG	BA	3129	1/1	0.97	0.09	35,35,35,35	0
52	MG	DA	3314	1/1	0.97	0.06	58,58,58,58	0
52	MG	DA	3148	1/1	0.97	0.45	41,41,41,41	0
52	MG	BA	3226	1/1	0.97	0.41	14,14,14,14	0
52	MG	BA	3094	1/1	0.97	0.61	31,31,31,31	0
52	MG	BA	3018	1/1	0.97	0.29	20,20,20,20	0
52	MG	DA	3234	1/1	0.97	0.16	46,46,46,46	0
52	MG	DA	3235	1/1	0.97	0.40	40,40,40,40	0
52	MG	BA	3019	1/1	0.97	0.52	19,19,19,19	0
52	MG	BA	3020	1/1	0.97	0.30	18,18,18,18	0
52	MG	BA	3006	1/1	0.97	0.54	30,30,30,30	0
52	MG	BA	3184	1/1	0.97	0.22	44,44,44,44	0
52	MG	BA	3045	1/1	0.97	0.40	21,21,21,21	0
52	MG	BA	3284	1/1	0.97	0.23	25,25,25,25	0
52	MG	DA	3008	1/1	0.97	0.39	36,36,36,36	0
52	MG	BA	3072	1/1	0.97	0.55	39,39,39,39	0
52	MG	DA	3010	1/1	0.97	0.42	51,51,51,51	0
52	MG	BA	3103	1/1	0.97	0.27	24,24,24,24	0
52	MG	BA	3189	1/1	0.97	0.51	36,36,36,36	0
52	MG	BA	3143	1/1	0.97	0.46	28,28,28,28	0
52	MG	BA	3073	1/1	0.97	0.33	20,20,20,20	0
52	MG	BA	3007	1/1	0.97	0.49	28,28,28,28	0
52	MG	BA	3106	1/1	0.97	0.24	18,18,18,18	0
52	MG	BA	3008	1/1	0.97	0.36	24,24,24,24	0
52	MG	DA	3020	1/1	0.97	0.48	35,35,35,35	0
52	MG	DA	3171	1/1	0.97	0.56	39,39,39,39	0
52	MG	BA	3027	1/1	0.97	0.38	19,19,19,19	0
53	ZN	CD	301	1/1	0.97	0.27	116,116,116,116	0
52	MG	BA	3198	1/1	0.97	0.44	36,36,36,36	0
54	K	BA	3363	1/1	0.97	0.15	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3023	1/1	0.97	0.53	38,38,38,38	0
52	MG	DA	3025	1/1	0.97	0.35	44,44,44,44	0
52	MG	AA	1623	1/1	0.97	0.33	37,37,37,37	0
52	MG	DA	3216	1/1	0.98	0.42	31,31,31,31	0
52	MG	BU	201	1/1	0.98	0.34	31,31,31,31	0
52	MG	BA	3035	1/1	0.98	0.38	26,26,26,26	0
52	MG	BA	3124	1/1	0.98	0.44	10,10,10,10	0
52	MG	DA	3042	1/1	0.98	0.37	37,37,37,37	0
52	MG	BA	3299	1/1	0.98	0.47	38,38,38,38	0
52	MG	DA	3160	1/1	0.98	0.52	33,33,33,33	0
52	MG	DA	3044	1/1	0.98	0.39	32,32,32,32	0
52	MG	BA	3125	1/1	0.98	0.18	18,18,18,18	0
52	MG	BA	3301	1/1	0.98	0.26	41,41,41,41	0
52	MG	DA	3104	1/1	0.98	0.36	36,36,36,36	0
52	MG	BA	3186	1/1	0.98	0.46	38,38,38,38	0
52	MG	BA	3005	1/1	0.98	0.26	24,24,24,24	0
52	MG	BA	3262	1/1	0.98	0.18	25,25,25,25	0
52	MG	BA	3107	1/1	0.98	0.18	28,28,28,28	0
52	MG	BA	3014	1/1	0.98	0.41	29,29,29,29	0
52	MG	BA	3156	1/1	0.98	0.51	26,26,26,26	0
52	MG	BA	3070	1/1	0.98	0.29	9,9,9,9	0
52	MG	BA	3028	1/1	0.98	0.36	22,22,22,22	0
52	MG	DA	3003	1/1	0.98	0.71	41,41,41,41	0
52	MG	BA	3193	1/1	0.98	0.56	33,33,33,33	0
52	MG	BA	3194	1/1	0.98	0.66	47,47,47,47	0
52	MG	BA	3010	1/1	0.98	0.44	33,33,33,33	0
52	MG	BA	3132	1/1	0.98	0.29	18,18,18,18	0
52	MG	DA	3062	1/1	0.98	0.10	24,24,24,24	0
52	MG	BA	3272	1/1	0.98	0.34	28,28,28,28	0
52	MG	BA	3134	1/1	0.98	0.17	36,36,36,36	0
52	MG	BA	3092	1/1	0.98	0.34	9,9,9,9	0
52	MG	DA	3011	1/1	0.98	0.53	30,30,30,30	0
52	MG	BA	3136	1/1	0.98	0.24	28,28,28,28	0
52	MG	BA	3137	1/1	0.98	0.40	10,10,10,10	0
52	MG	BA	3040	1/1	0.98	0.60	37,37,37,37	0
52	MG	BA	3057	1/1	0.98	0.21	24,24,24,24	0
52	MG	DA	3187	1/1	0.98	0.11	54,54,54,54	0
52	MG	BA	3167	1/1	0.98	0.48	31,31,31,31	0
52	MG	BA	3241	1/1	0.98	0.34	26,26,26,26	0
52	MG	DA	3317	1/1	0.98	0.39	42,42,42,42	0
52	MG	DA	3073	1/1	0.98	0.40	31,31,31,31	0
52	MG	AA	1626	1/1	0.98	0.33	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3192	1/1	0.98	0.32	29,29,29,29	0
52	MG	DA	3132	1/1	0.98	0.43	25,25,25,25	0
52	MG	BA	3012	1/1	0.98	0.39	23,23,23,23	0
52	MG	DA	3076	1/1	0.98	0.28	29,29,29,29	0
52	MG	BA	3043	1/1	0.98	0.20	31,31,31,31	0
52	MG	DA	3078	1/1	0.98	0.41	37,37,37,37	0
52	MG	BA	3171	1/1	0.98	0.58	32,32,32,32	0
52	MG	BA	3172	1/1	0.98	0.22	52,52,52,52	0
52	MG	BA	3209	1/1	0.98	0.49	31,31,31,31	0
52	MG	DA	3263	1/1	0.98	0.17	45,45,45,45	0
52	MG	BA	3173	1/1	0.98	0.39	31,31,31,31	0
52	MG	DA	3265	1/1	0.98	0.48	47,47,47,47	0
52	MG	BA	3044	1/1	0.98	0.38	14,14,14,14	0
52	MG	DA	3084	1/1	0.98	0.50	38,38,38,38	0
52	MG	BA	3023	1/1	0.98	0.50	35,35,35,35	0
52	MG	DA	3269	1/1	0.98	0.47	39,39,39,39	0
52	MG	BA	3145	1/1	0.98	0.45	33,33,33,33	0
52	MG	DA	3030	1/1	0.98	0.33	32,32,32,32	0
52	MG	BA	3024	1/1	0.98	0.31	28,28,28,28	0
52	MG	BA	3025	1/1	0.98	0.24	29,29,29,29	0
52	MG	BA	3180	1/1	0.98	0.11	48,48,48,48	0
52	MG	DA	3149	1/1	0.98	0.35	29,29,29,29	0
52	MG	DA	3034	1/1	0.98	0.40	51,51,51,51	0
52	MG	BA	3148	1/1	0.98	0.46	26,26,26,26	0
52	MG	DA	3036	1/1	0.98	0.59	29,29,29,29	0
52	MG	CA	1641	1/1	0.98	0.24	52,52,52,52	0
52	MG	BA	3066	1/1	0.98	0.39	29,29,29,29	0
52	MG	BA	3050	1/1	0.99	0.35	27,27,27,27	0
52	MG	BA	3096	1/1	0.99	0.48	19,19,19,19	0
52	MG	BA	3133	1/1	0.99	0.23	37,37,37,37	0
52	MG	BA	3055	1/1	0.99	0.32	16,16,16,16	0
52	MG	DA	3050	1/1	0.99	0.35	39,39,39,39	0
52	MG	BA	3065	1/1	0.99	0.28	26,26,26,26	0
52	MG	DA	3019	1/1	0.99	0.55	21,21,21,21	0
52	MG	DA	3053	1/1	0.99	0.34	27,27,27,27	0
52	MG	BA	3078	1/1	0.99	0.48	30,30,30,30	0
52	MG	CA	1618	1/1	0.99	0.49	65,65,65,65	0
52	MG	BA	3177	1/1	0.99	0.28	38,38,38,38	0
52	MG	BA	3295	1/1	0.99	0.42	34,34,34,34	0
52	MG	DA	3024	1/1	0.99	0.33	35,35,35,35	0
52	MG	BA	3100	1/1	0.99	0.35	28,28,28,28	0
52	MG	BA	3079	1/1	0.99	0.16	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
52	MG	DA	3115	1/1	0.99	0.40	44,44,44,44	0
52	MG	BA	3213	1/1	0.99	0.16	20,20,20,20	0
52	MG	BA	3047	1/1	0.99	0.56	28,28,28,28	0
52	MG	BA	3087	1/1	0.99	0.25	18,18,18,18	0

6.5 Other polymers [i](#)

There are no such residues in this entry.