



wwPDB X-ray Structure Validation Summary Report ⓘ

Jan 3, 2024 – 11:33 am GMT

PDB ID : 4V5J
Title : Structure of the 70S ribosome bound to Release factor 2 and a substrate analog provides insights into catalysis of peptide release
Authors : Jin, H.; Kelley, A.C.; Loakes, D.; Ramakrishnan, V.
Deposited on : 2010-03-24
Resolution : 3.10 Å(reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

MolProbity : 4.02b-467
Mogul : 1.8.4, CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.36
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) : 2.36

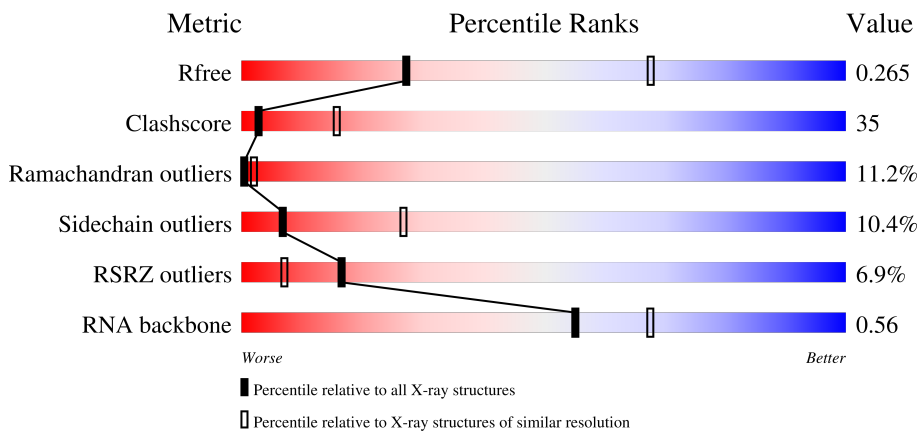
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.10 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)
RNA backbone	3102	1116 (3.40-2.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	AA	1522	 3% 29% 59% 10%
1	CA	1522	 2% 29% 59% 10%
2	AB	256	 9% 19% 57% 14% 8%
2	CB	256	 7% 19% 57% 14% 8%



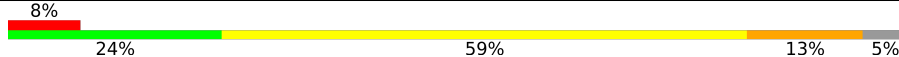
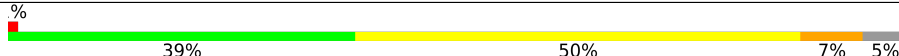
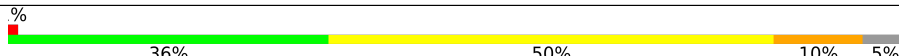
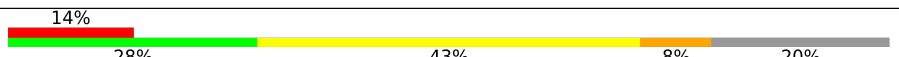
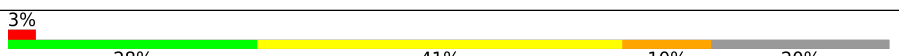
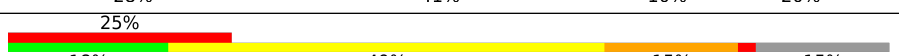
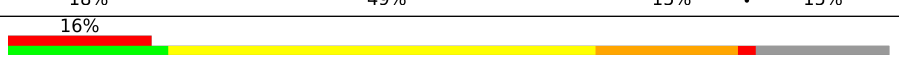
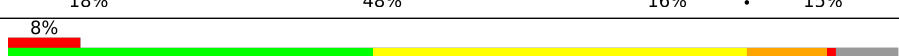
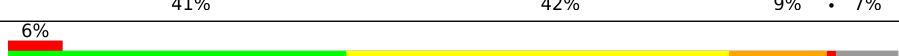


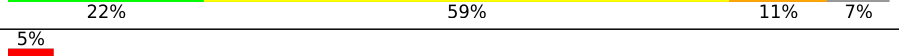
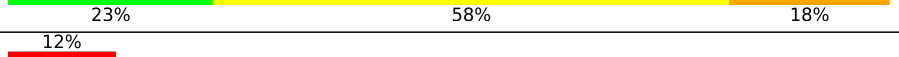
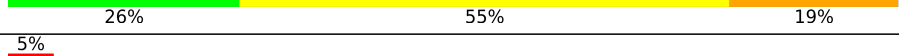
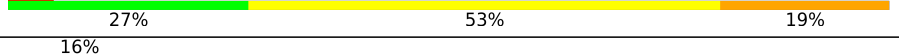
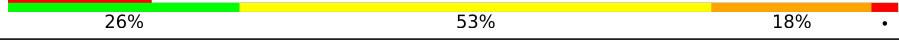
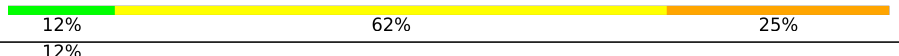
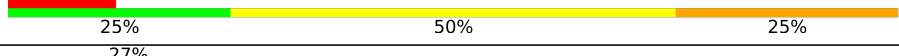
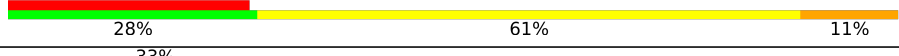
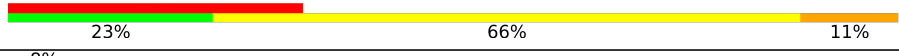


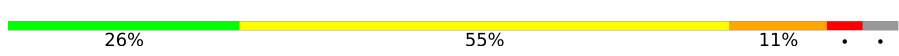
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Mol	Chain	Length	Quality of chain
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126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

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Mol	Chain	Length	Quality of chain
15	CO	89	
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	AV	77	
22	AW	77	
22	CV	77	
22	CW	77	
23	AX	8	
23	CX	8	
24	AY	351	
24	CY	351	
25	B0	85	
25	D0	85	
26	B1	98	
26	D1	98	

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Mol	Chain	Length	Quality of chain
27	B2	72	
27	D2	72	
28	B3	60	
28	D3	60	
29	B4	71	
29	D4	71	
30	B5	60	
30	D5	60	
31	B6	54	
31	D6	54	
32	B7	49	
32	D7	49	
33	B8	65	
33	D8	65	
34	B9	37	
34	D9	37	
35	BA	2915	
35	DA	2915	
36	BB	122	
36	DB	122	
37	BC	229	
37	DC	229	
38	BD	276	
38	DD	276	
39	BE	206	

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Mol	Chain	Length	Quality of chain
39	DE	206	
40	BF	210	
40	DF	210	
41	BG	182	
41	DG	182	
42	BH	180	
42	DH	180	
43	BI	148	
43	DI	148	
44	BJ	130	
44	DJ	130	
45	BK	147	
45	DK	147	
46	BN	140	
46	DN	140	
47	BO	122	
47	DO	122	
48	BP	150	
48	DP	150	
49	BQ	141	
49	DQ	141	
50	BR	118	
50	DR	118	
51	BS	112	
51	DS	112	

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

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
22	8AN	AV	76	-	-	X	-
22	PHA	AW	77	-	-	X	X
22	PHA	CW	77	-	-	X	-
59	MG	AA	1611	-	-	-	X
59	MG	AA	1630	-	-	-	X
59	MG	AA	1721	-	-	-	X
59	MG	AA	1727	-	-	-	X
59	MG	AA	1732	-	-	-	X
59	MG	AA	1748	-	-	-	X
59	MG	AA	1752	-	-	-	X
59	MG	AV	105	-	-	-	X
59	MG	AX	101	-	-	-	X
59	MG	B5	102	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	BA	3010	-	-	-	X
59	MG	BA	3029	-	-	-	X
59	MG	BA	3039	-	-	-	X
59	MG	BA	3111	-	-	-	X
59	MG	BA	3127	-	-	-	X
59	MG	BA	3131	-	-	-	X
59	MG	BA	3149	-	-	-	X
59	MG	BA	3208	-	-	-	X
59	MG	BA	3209	-	-	-	X
59	MG	BA	3212	-	-	-	X
59	MG	BA	3217	-	-	-	X
59	MG	BA	3218	-	-	-	X
59	MG	BA	3273	-	-	-	X
59	MG	BA	3276	-	-	-	X
59	MG	BA	3277	-	-	-	X
59	MG	BA	3290	-	-	-	X
59	MG	BA	3313	-	-	-	X
59	MG	BA	3319	-	-	-	X
59	MG	BA	3344	-	-	-	X
59	MG	BA	3354	-	-	-	X
59	MG	BA	3357	-	-	-	X
59	MG	BG	201	-	-	-	X
59	MG	CA	1603	-	-	-	X
59	MG	CA	1632	-	-	-	X
59	MG	CA	1637	-	-	-	X
59	MG	CA	1638	-	-	-	X
59	MG	CA	1648	-	-	-	X
59	MG	CA	1675	-	-	-	X
59	MG	CA	1680	-	-	-	X
59	MG	CA	1699	-	-	-	X
59	MG	CA	1712	-	-	-	X
59	MG	CA	1714	-	-	-	X
59	MG	CA	1715	-	-	-	X
59	MG	CA	1748	-	-	-	X
59	MG	CL	202	-	-	-	X
59	MG	DA	3044	-	-	-	X
59	MG	DA	3095	-	-	-	X
59	MG	DA	3153	-	-	-	X
59	MG	DA	3197	-	-	-	X
59	MG	DA	3210	-	-	-	X
59	MG	DA	3215	-	-	-	X
59	MG	DA	3226	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
59	MG	DA	3244	-	-	-	X
59	MG	DA	3253	-	-	-	X
59	MG	DA	3258	-	-	-	X
59	MG	DA	3339	-	-	-	X
59	MG	DA	3356	-	-	-	X
59	MG	DB	201	-	-	-	X
59	MG	DP	201	-	-	-	X

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 305067 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

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

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

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

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

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	AL	125	971	611	196	163	1	0	0	1
12	CL	125	971	611	196	163	1	0	0	1

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	AM	125	988	611	206	169	2	0	0	1
13	CM	125	988	611	206	169	2	0	0	1

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14 TYPE Z.

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

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

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

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			
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 RNA chain called E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			
22	AW	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			
22	CV	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			
22	CW	77	Total	C	N	O	P	0	0	0
			1630	732	292	531	75			

- Molecule 23 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AX	8	Total	C	N	O	P	0	0	0
			165	76	29	53	7			
23	CX	8	Total	C	N	O	P	0	0	0
			165	76	29	53	7			

- Molecule 24 is a protein called PEPTIDE CHAIN RELEASE FACTOR 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AY	351	Total	C	N	O	S	0	0	0
			2801	1752	506	535	8			
24	CY	351	Total	C	N	O	S	0	0	0
			2801	1752	506	535	8			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	83	Total	C	N	O	S	0	0	0
			657	407	139	110	1			
25	D0	83	Total	C	N	O	S	0	0	0
			657	407	139	110	1			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	B1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			
26	D1	94	Total	C	N	O	S	0	0	1
			732	460	146	125	1			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L29.

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

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L30.

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

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L31.

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

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L32.

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

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L33.

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

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

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L34.

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

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L35.

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

- Molecule 34 is a protein called 50S RIBOSOMAL PROTEIN L36.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			
35	DA	2901	Total	C	N	O	P	0	0	0
			62474	27806	11681	20087	2900			

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

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

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			
37	DC	120	Total	C	N	O	S	0	0	0
			937	590	174	172	1			

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L2.

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

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L3.

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

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L4.

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

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L5.

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

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L6.

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

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L9.

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

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BJ	130	Total	C	N	O	0	0	0
			651	390	130	131			
44	DJ	130	Total	C	N	O	0	0	0
			651	390	130	131			

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BK	141	Total	C	N	O	S	0	0	1
			1038	661	184	187	6			
45	DK	141	Total	C	N	O	S	0	0	1
			1038	661	184	187	6			

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L13.

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

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L14.

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

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

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L15.

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

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
49	DQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L17.

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

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L18.

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

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L19.

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

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L20.

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

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L21.

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

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L22.

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

- Molecule 56 is a protein called 50S RIBOSOMAL PROTEIN L23.

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

- Molecule 57 is a protein called 50S RIBOSOMAL PROTEIN L24.

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

- Molecule 58 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	BZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			
58	DZ	185	Total	C	N	O	S	0	0	1
			1468	936	262	268	2			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	AA	161	Total	Mg	0	0
			161	161		
59	AL	1	Total	Mg	0	0
			1	1		
59	AS	1	Total	Mg	0	0
			1	1		
59	AV	7	Total	Mg	0	0
			7	7		
59	AW	4	Total	Mg	0	0
			4	4		
59	AX	1	Total	Mg	0	0
			1	1		
59	AY	1	Total	Mg	0	0
			1	1		
59	B1	1	Total	Mg	0	0
			1	1		
59	B5	2	Total	Mg	0	0
			2	2		
59	BA	357	Total	Mg	0	0
			357	357		
59	BB	4	Total	Mg	0	0
			4	4		
59	BD	2	Total	Mg	0	0
			2	2		
59	BF	2	Total	Mg	0	0
			2	2		
59	BG	1	Total	Mg	0	0
			1	1		
59	BT	1	Total	Mg	0	0
			1	1		
59	BX	1	Total	Mg	0	0
			1	1		
59	BY	1	Total	Mg	0	0
			1	1		
59	CA	155	Total	Mg	0	0
			155	155		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	CD	1	Total Mg 1 1	0	0
59	CL	2	Total Mg 2 2	0	0
59	CN	1	Total Mg 1 1	0	0
59	CS	1	Total Mg 1 1	0	0
59	CV	7	Total Mg 7 7	0	0
59	CW	4	Total Mg 4 4	0	0
59	CX	1	Total Mg 1 1	0	0
59	D1	1	Total Mg 1 1	0	0
59	D5	2	Total Mg 2 2	0	0
59	DA	359	Total Mg 359 359	0	0
59	DB	4	Total Mg 4 4	0	0
59	DD	1	Total Mg 1 1	0	0
59	DE	1	Total Mg 1 1	0	0
59	DF	1	Total Mg 1 1	0	0
59	DG	1	Total Mg 1 1	0	0
59	DH	1	Total Mg 1 1	0	0
59	DP	1	Total Mg 1 1	0	0
59	DS	1	Total Mg 1 1	0	0
59	DX	1	Total Mg 1 1	0	0

- Molecule 60 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AD	1	Total 1	Zn 1	0	0
60	AN	1	Total 1	Zn 1	0	0
60	B9	1	Total 1	Zn 1	0	0
60	CD	1	Total 1	Zn 1	0	0
60	CN	1	Total 1	Zn 1	0	0
60	D9	1	Total 1	Zn 1	0	0

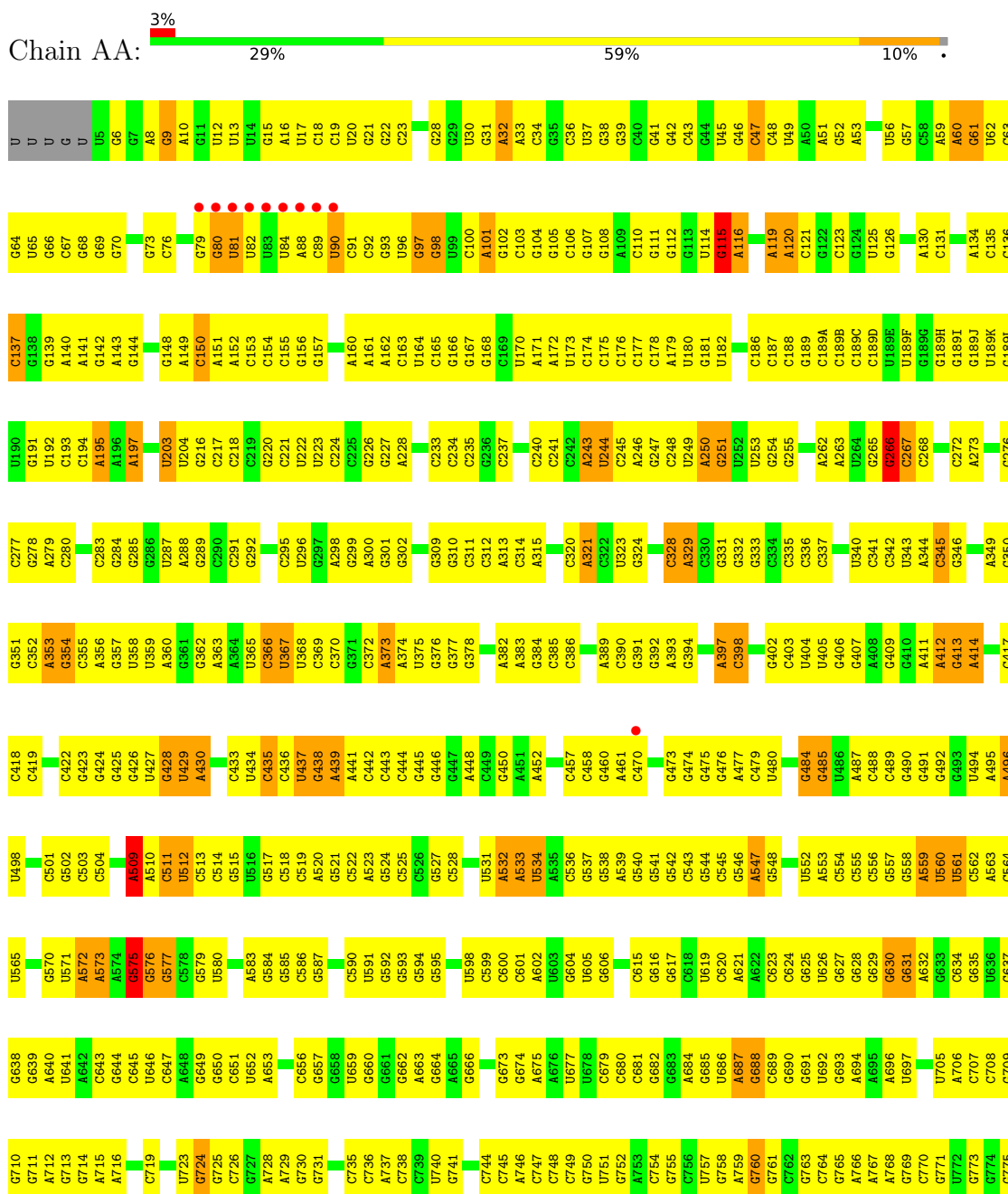
- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	AV	1	Total 1	O 1	0	0
61	AY	1	Total 1	O 1	0	0
61	BA	1	Total 1	O 1	0	0

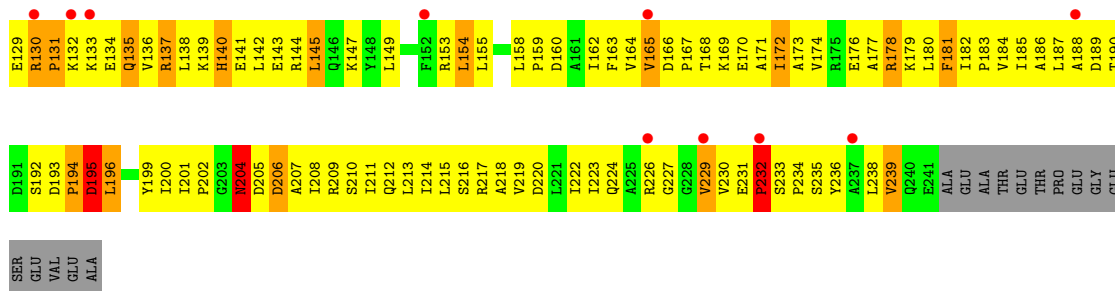
3 Residue-property plots [i](#)

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.

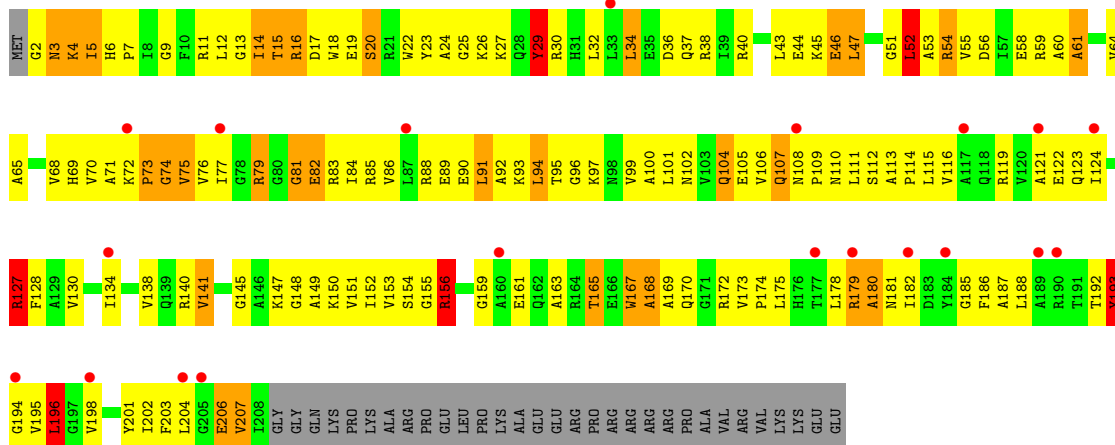
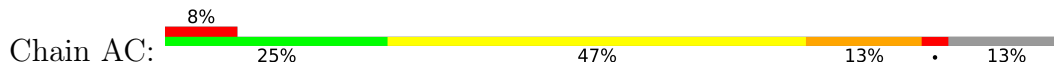
- Molecule 1: 16S Ribosomal RNA



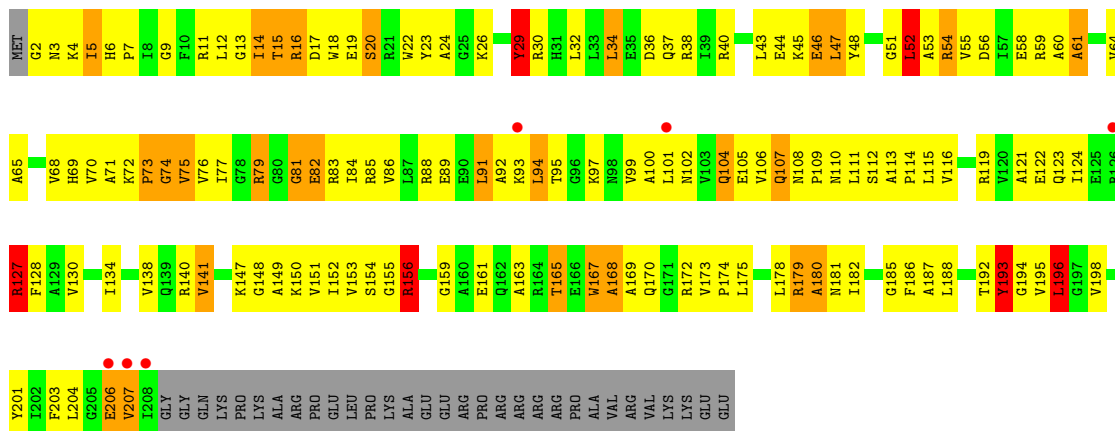
G143	G144	G145	A1146	C1147	U1148	C1149	U1150	A1151	C1152	G1153	A1154	U1155	C1156	G1157	A1160	A1161	A1162	C1163	U1164	C1165	G1166	G1167	C1168	C1169	U1170	A1171	C1172	U1173	C1174	C1175	C1176	C1177	C1178	A1179	U1180	U1181	U1182	C1186	C1187	C1188	C1189	C1189A	C1189B	C1189C	U1189D	U1189E	C1189F	G1189G	C1189H	G1189I	G1189J	U1189K	C1189L	U1190		
G191	U192	C193	C194	A1195	C1196	A1197	U202	U203	U204	C216	C217	C218	C219	C220	C221	U222	U223	C224	C225	G226	G227	C233	C234	C235	C236	C237	C240	C241	C242	A243	U244	C245	A246	C247	C248	U249	A250	G332	G333	C334	C335	C336	C337	A262	A263	U264	C265	C266	C267	C268	C269	A270	C271	C272	A273	G276
C277	G278	A279	C280	C283	G284	G285	G289	A363	C291	C292	C295	U296	G297	A298	U299	A300	G301	G302	G309	C310	C311	C312	A313	C314	A315	A321	C322	A323	G324	C325	C328	A329	C330	G331	G332	G333	C334	C335	C336	A338	A339	U340	U341	C342	U343	A344	A345	A411	A412	C413	A414	C417	C418	C419		
G354	C355	A356	C357	U358	A360	G361	C362	A363	U365	C366	U367	U368	C369	C370	G371	C372	A373	U374	G375	G376	G377	G378	A382	A383	G384	C385	C386	U387	G388	A389	C390	G391	G392	A393	G394	A397	C398	G402	C403	U404	U405	A406	G407	A408	G409	G410	A411	A412	C413	A414	C417	C418	C419			
U420	U421	C422	G423	G424	G425	G426	U427	G428	U429	A430	C433	U434	C435	C436	U437	G438	A439	A441	A442	C443	C444	G445	G446	G447	A448	A449	G450	A451	A452	C457	C458	A459	G460	A461	C470	G473	G474	G475	G476	A477	C479	U480	G484	G485	U486	A487	C488	C489	G490	G491	C492	C493	U494	A495	G496	U498
C501	C502	C503	C504	A509	A510	C511	U512	C513	C514	C515	U516	G517	C518	C519	A520	G521	C522	A523	G527	C528	U531	A532	A533	U534	A535	A536	A537	G538	C539	G540	A541	G542	C543	G544	C545	C546	A547	U552	A553	C556	G557	G558	A559	U560	C561	A562	C563	C564	U565	G566	G567	C569				
G570	U571	A572	A573	A574	G575	G576	C577	C578	A583	G584	C585	C586	G587	U589	C590	G591	U592	G593	G594	G595	U598	C600	C601	A602	U603	G604	U605	G606	C615	G616	G617	C620	A621	C623	C624	C625	U626	G627	G628	G629	G630	G631	A632	G633	C634	C635	U636	C637	C638	C639	A640	U641	G642			
C643	G644	C645	U646	G647	A648	G649	C650	G651	U652	A653	C656	G657	G658	U659	G660	G661	G662	A663	A665	G666	G673	G674	A675	A676	U677	U678	C679	C680	C681	G682	A684	G685	U686	A687	G688	C689	G690	G691	U692	G693	G694	A695	A696	U697	U705	A706	C707	C708	G709	G710	G711	A712	G713	G714		
A715	A716	C719	U723	G724	G725	C726	A727	U728	A729	G730	G731	C735	C736	A737	C738	C739	U740	G741	U742	U743	C744	C745	A746	A747	A748	U749	C750	U751	G752	A753	C754	G755	U756	U757	G758	A759	C760	C761	C764	G765	A766	G767	A768	G769	C770	G771	G775	C776	A777	A781	A782	U783	C784			
G785	A790	U793	A794	C795	C796	G797	U798	G802	U803	U804	C805	C806	A814	A815	A816	C817	G818	U819	U820	A821	C826	U827	A828	A829	G829	G830	U821	U822	C832	U833	C834	U835	G836	U839	C840	U841	C848	G851	G852	G853	G854	C857	G858	A859	A860	G861	C862	U863	A864	A865	G866	C867	C868			
G869	U870	G878	C879	C880	G881	C882	C883	U884	G885	G888	C897	G898	G902	A908	A909	C910	U911	C912	A913	A914	G917	U918	A919	U920	U921	G922	C923	A924	U925	G926	G927	G928	G929	C930	C931	C932	G933	C934	A935	C936	A937	A938	C939	C940	G942	A946	U947	C948	A949	U950	G951					
U952	G953	U954	U955	U956	U957	A958	A959	U960	U961	C962	G963	A964	A965	G966	C967	A968	U969	C970	C971	C972	G973	A974	U975	G976	A977	A978	C979	U980	U981	C984	C985	A986	G987	C990	U991	U992	G993	A994	U997	U998	C999	U1000	A1001	G1001A	G1002	C1003	A1004	A1005	C1006	C1007	C1008	G1009	U1012	C1013	A1014	
A1015	A1016	G1017	C1018	U1019	U1020	G1021	G1024	U1025	G1026	C1027	U1028	C1029	U1030	G1030A	U1031	C1030B	G1030C	A1030D	G1031	G1032	G1033	U1034	A1035	G1036	A1037	U1040	A1041	G1042	C1043	G1047	U1048	U1049	U1050	G1051	U1052	G1053	C1054	A1055	U1056	G1057	C1059	C1060	G1061	U1062	C1063	G1064	U1065	A1066	U1067	G1068	C1071	G1072	U1073	G1074	C1075	
C1076	G1077	U1078	G1079	A1080	U1081	G1082	U1083	G1084	U1085	U1086	G1087	U1088	G1089	G1094	U1095	C1096	C1097	C1098	A1101	A1102	C1103	U1104	A1105	G1106	C1107	G1108	C1109	A1110	A1111	C1112	C1116	G1117	C1118	U1121	U1122	A1123	G1124	U1125	G1126	C1127	C1128	C1129	A1130	U1131	C1132	G1133	C1134	U1135	U1136	C1137	U1138	C1139	C1140	C1141	G1142	
G1143	G1144	A1146	C1147	U1148	C1149	U1150	A1151	C1152	U1153	A1154	U1155	C1156	G1157	A1160	A1161	A1162	C1163	U1164	C1165	G1166	A1168	A1169	U1170	G1171	C1172	G1173	A1176	G1177	G1178	A1179	A1180	G1181	G1182	A1188	C1189	G1190	G1193	U1194	C1195	U1196	G1197	C1198	U1199	C1200	A1201	G1202	C1203	A1204	U1205	G1206	G1207	C1208	U1211	U1212		



• Molecule 3: 30S RIBOSOMAL PROTEIN S3

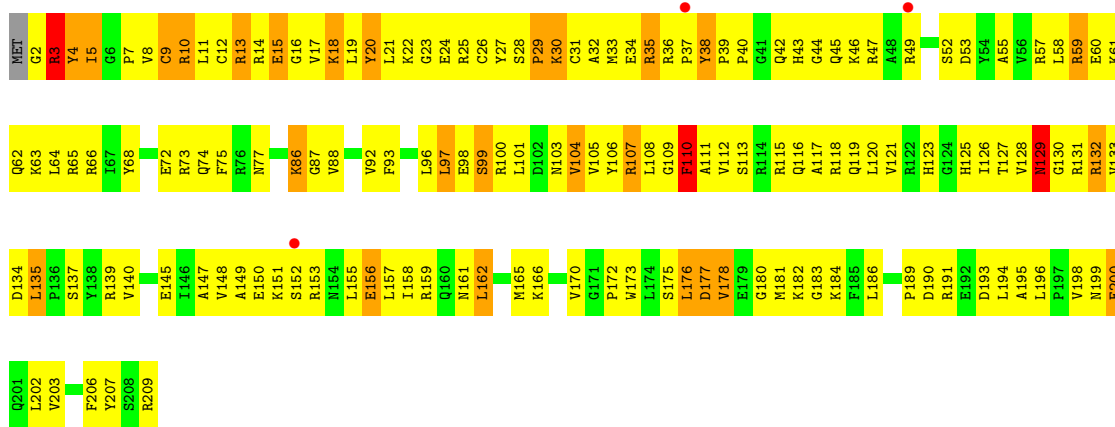


• Molecule 3: 30S RIBOSOMAL PROTEIN S3

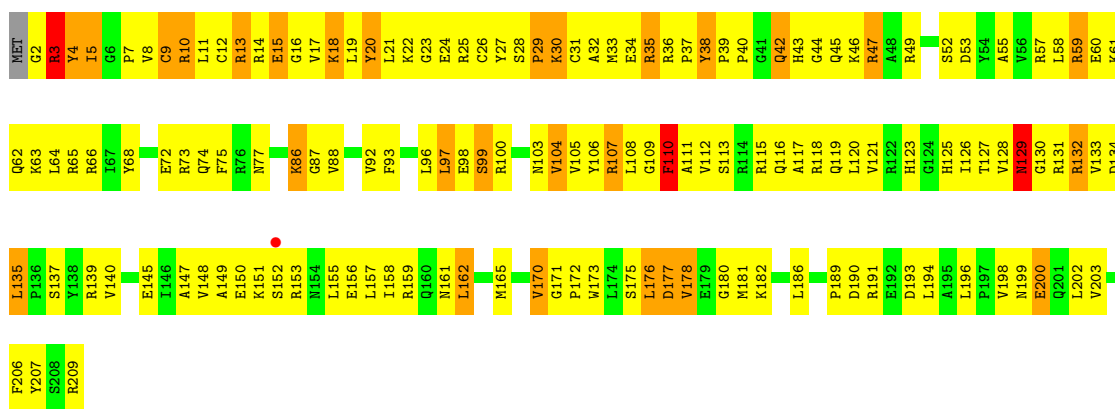


• Molecule 4: 30S RIBOSOMAL PROTEIN S4

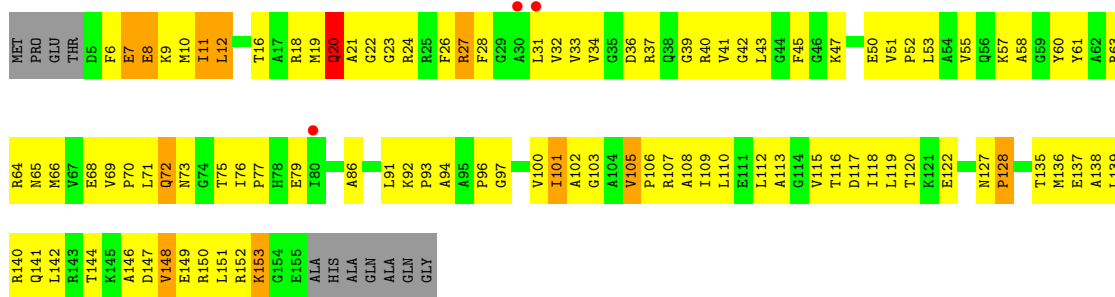




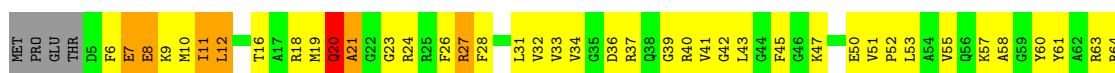
• Molecule 4: 30S RIBOSOMAL PROTEIN S4



• Molecule 5: 30S RIBOSOMAL PROTEIN S5

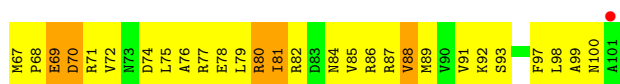


• Molecule 5: 30S RIBOSOMAL PROTEIN S5

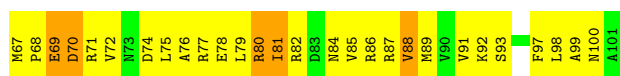




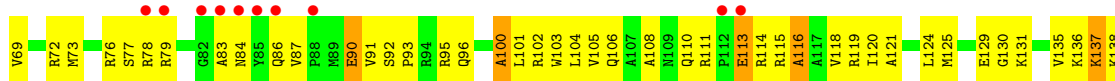
● Molecule 6: 30S RIBOSOMAL PROTEIN S6



● Molecule 6: 30S RIBOSOMAL PROTEIN S6

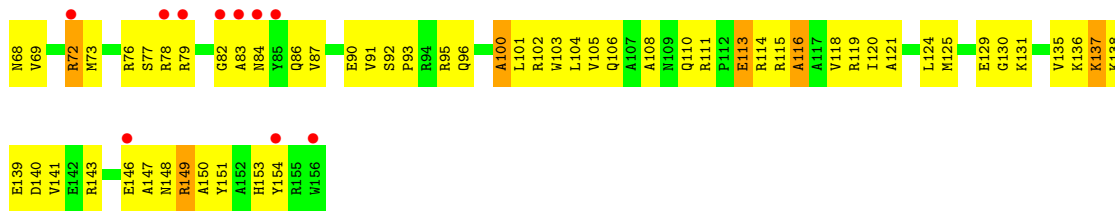


● Molecule 7: 30S RIBOSOMAL PROTEIN S7

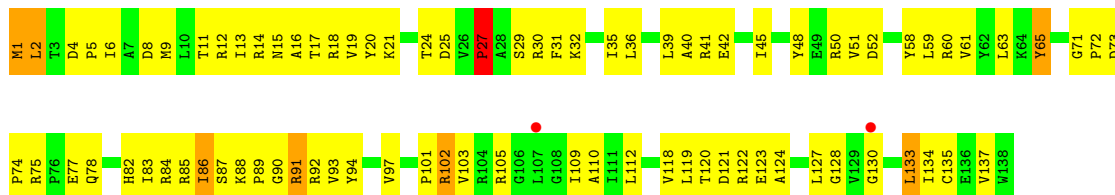


● Molecule 7: 30S RIBOSOMAL PROTEIN S7

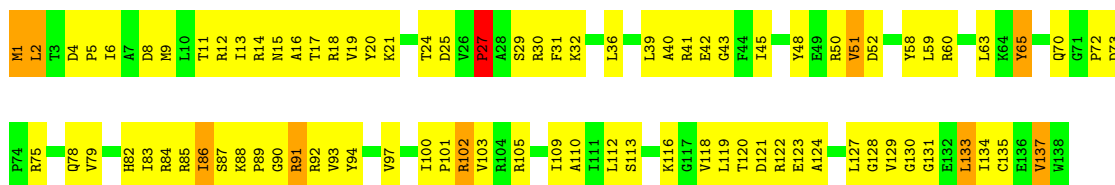




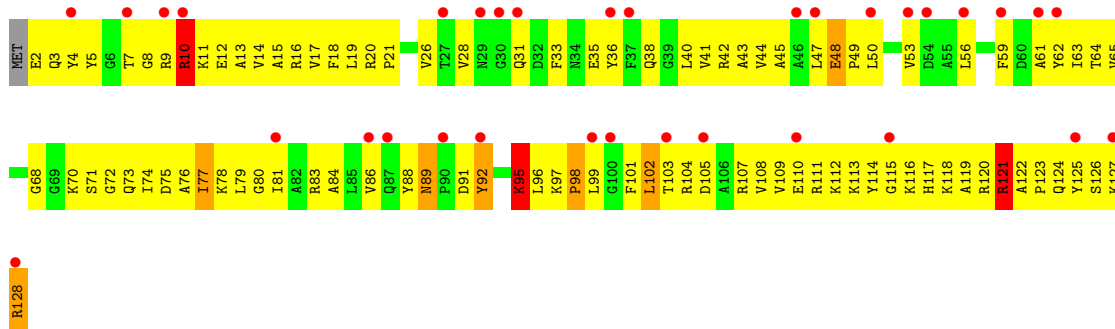
● Molecule 8: 30S RIBOSOMAL PROTEIN S8



● Molecule 8: 30S RIBOSOMAL PROTEIN S8

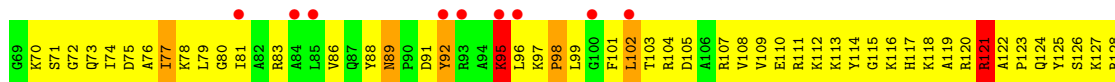


● Molecule 9: 30S RIBOSOMAL PROTEIN S9



● Molecule 9: 30S RIBOSOMAL PROTEIN S9

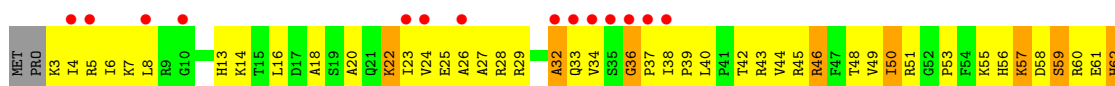




• Molecule 10: 30S RIBOSOMAL PROTEIN S10



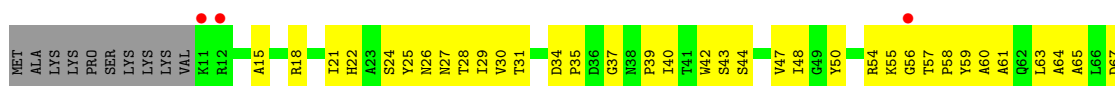
• Molecule 10: 30S RIBOSOMAL PROTEIN S10



• Molecule 11: 30S RIBOSOMAL PROTEIN S11

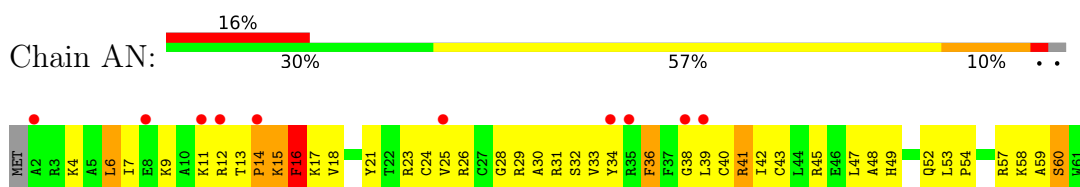


• Molecule 11: 30S RIBOSOMAL PROTEIN S11

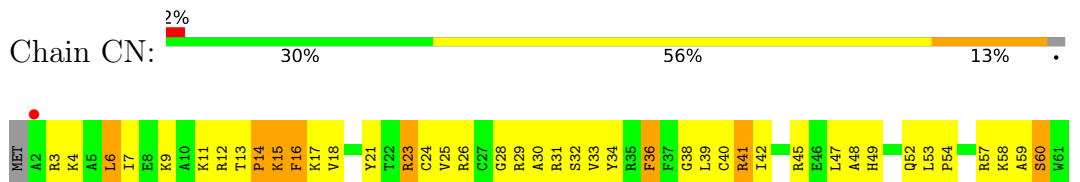


• Molecule 12: 30S RIBOSOMAL PROTEIN S12

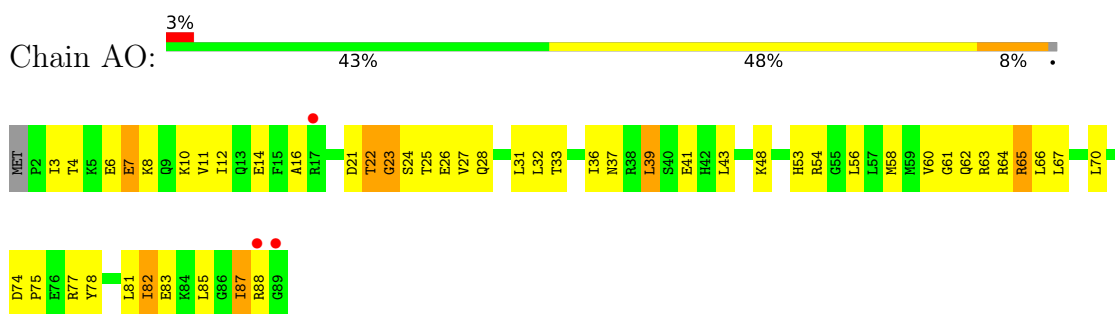




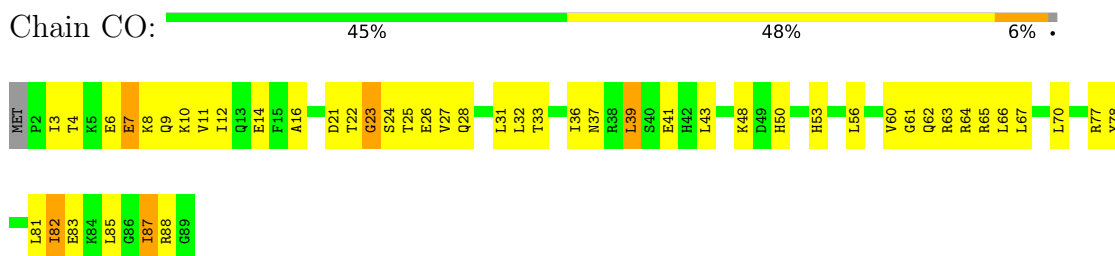
- Molecule 14: 30S RIBOSOMAL PROTEIN S14 TYPE Z



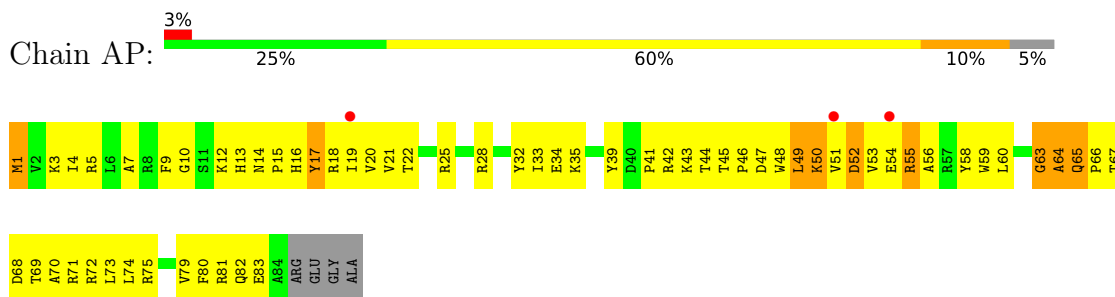
- Molecule 15: 30S RIBOSOMAL PROTEIN S15



- Molecule 15: 30S RIBOSOMAL PROTEIN S15

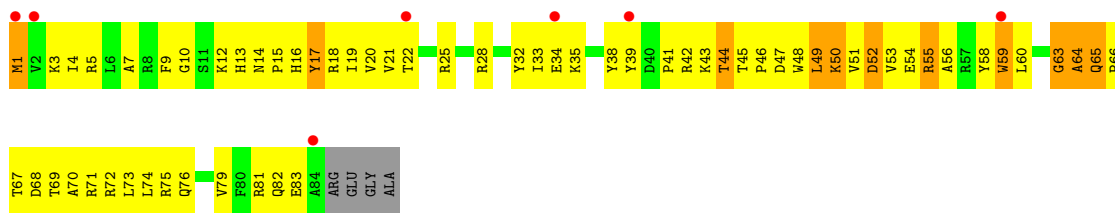


- Molecule 16: 30S RIBOSOMAL PROTEIN S16

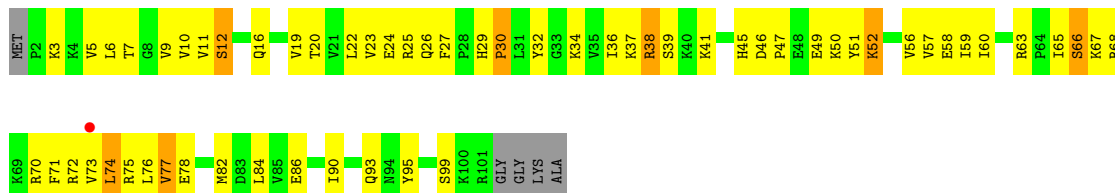


- Molecule 16: 30S RIBOSOMAL PROTEIN S16

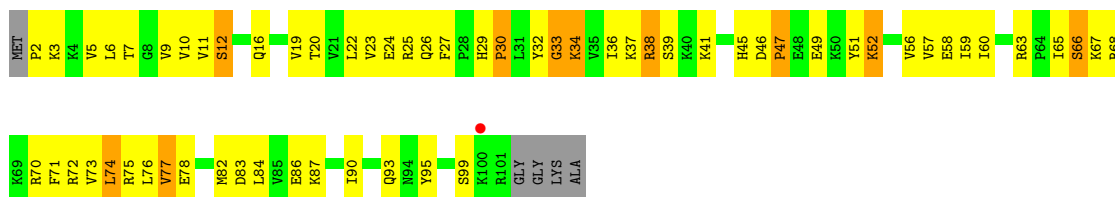




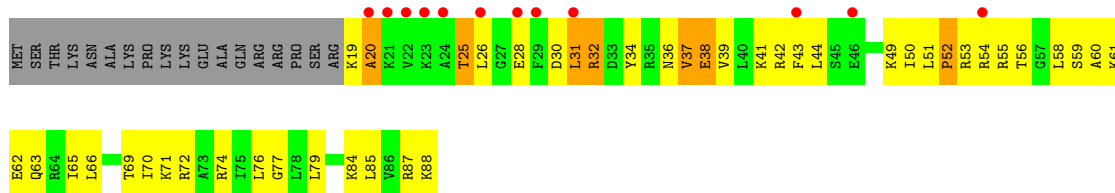
● Molecule 17: 30S RIBOSOMAL PROTEIN S17



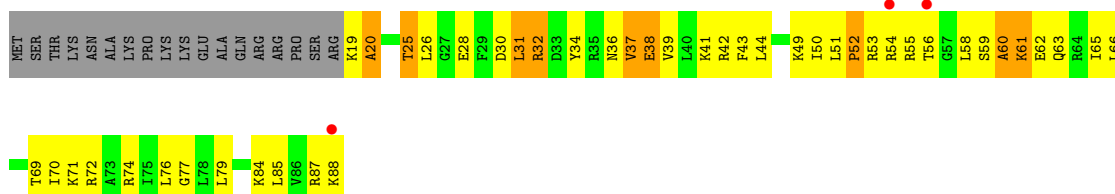
● Molecule 17: 30S RIBOSOMAL PROTEIN S17



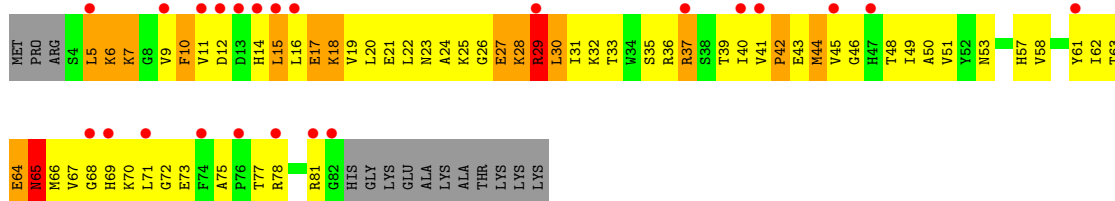
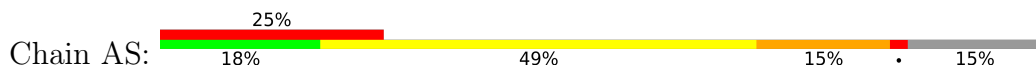
● Molecule 18: 30S RIBOSOMAL PROTEIN S18



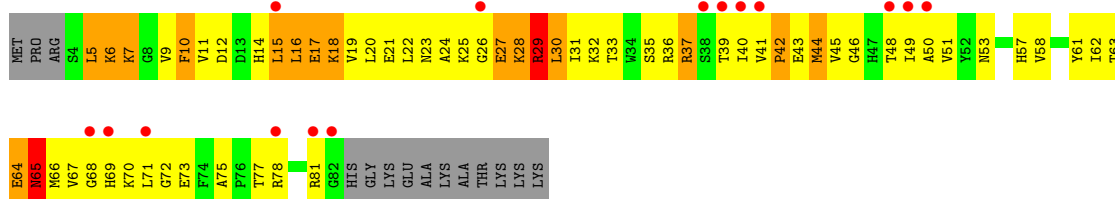
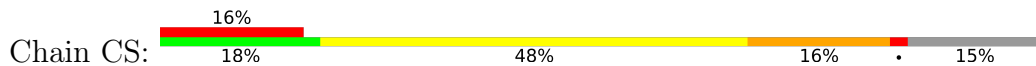
● Molecule 18: 30S RIBOSOMAL PROTEIN S18



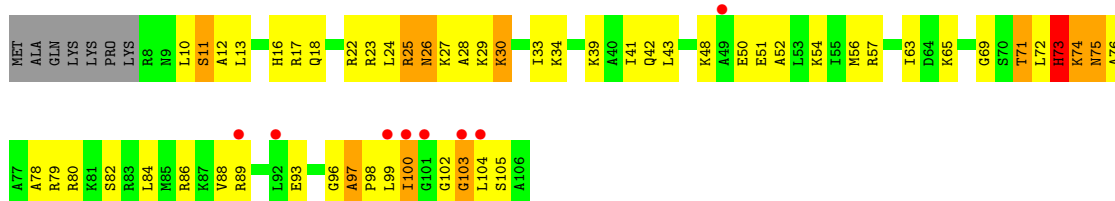
● Molecule 19: 30S RIBOSOMAL PROTEIN S19



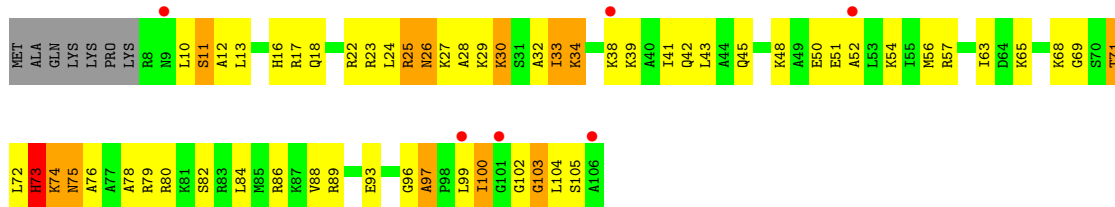
- Molecule 19: 30S RIBOSOMAL PROTEIN S19



- Molecule 20: 30S RIBOSOMAL PROTEIN S20



- Molecule 20: 30S RIBOSOMAL PROTEIN S20



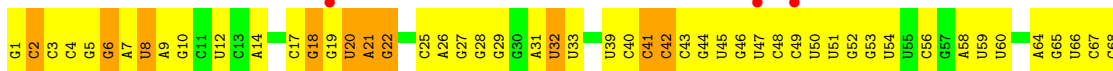
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



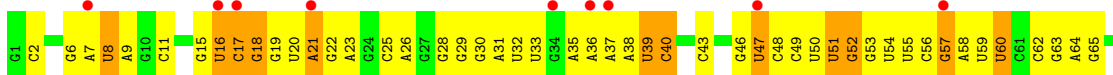
- Molecule 21: 30S RIBOSOMAL PROTEIN THX



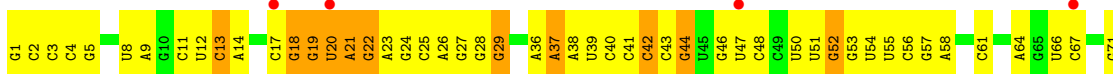
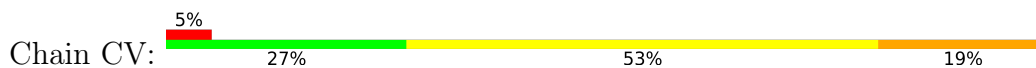
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



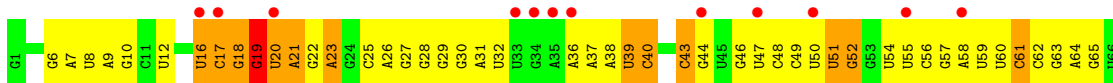
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



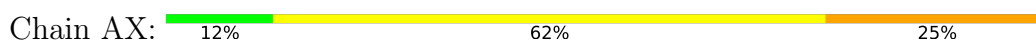
- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



- Molecule 22: E-SITE TRNA PHE OR P-SITE TRNA PHE (UNMODIFIED BASES)



- Molecule 23: MRNA

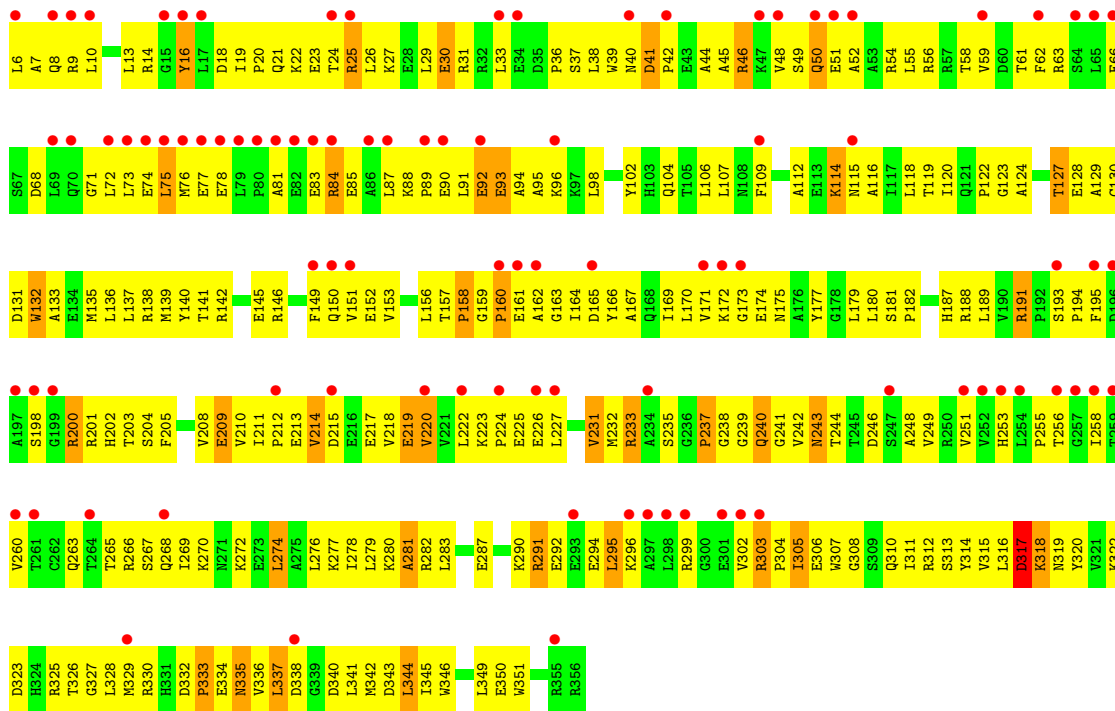




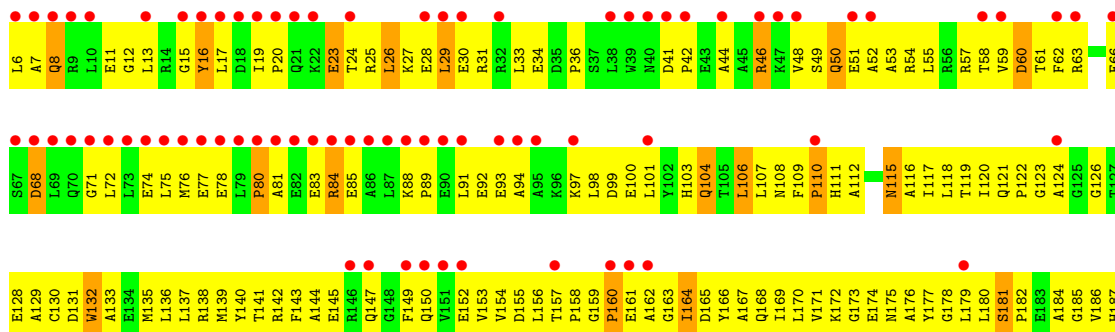
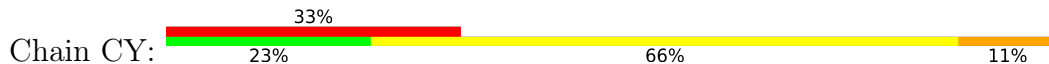
● Molecule 23: MRNA

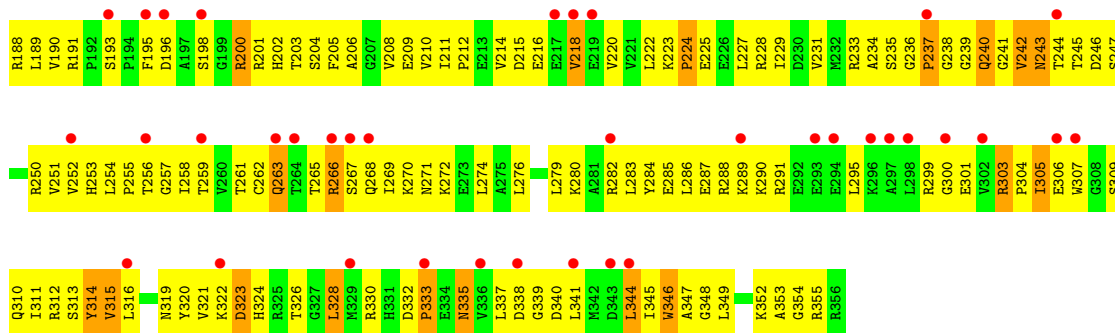


● Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

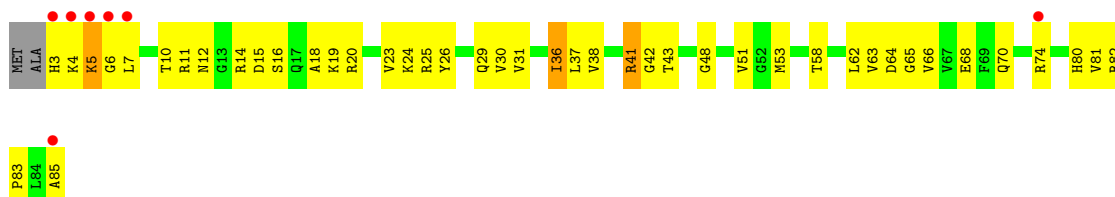


● Molecule 24: PEPTIDE CHAIN RELEASE FACTOR 2

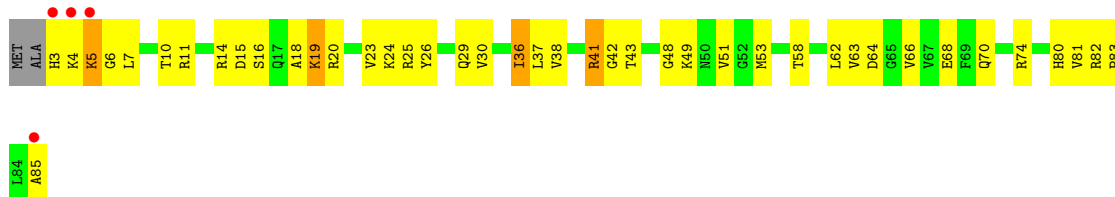




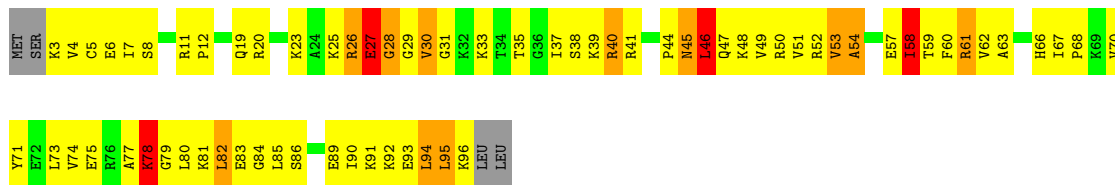
• Molecule 25: 50S RIBOSOMAL PROTEIN L27



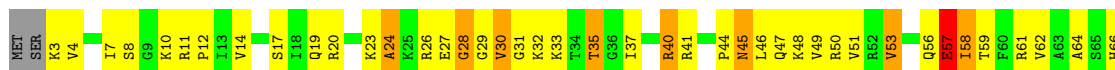
• Molecule 25: 50S RIBOSOMAL PROTEIN L27

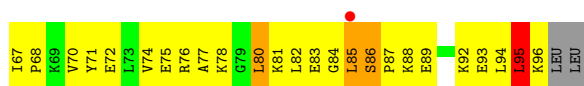


• Molecule 26: 50S RIBOSOMAL PROTEIN L28

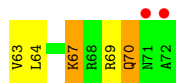
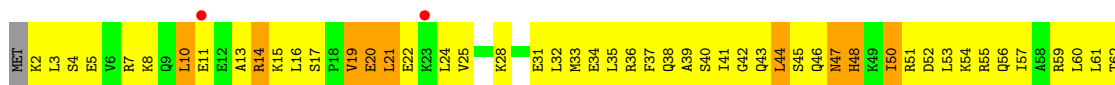


• Molecule 26: 50S RIBOSOMAL PROTEIN L28

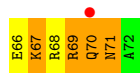
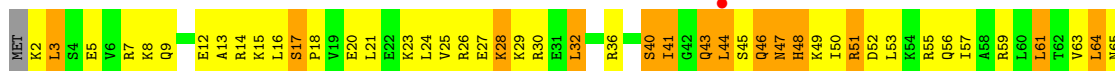




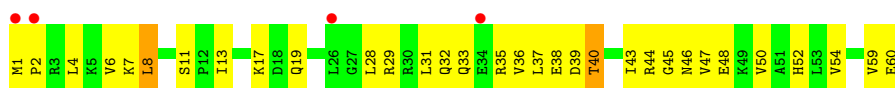
- Molecule 27: 50S RIBOSOMAL PROTEIN L29



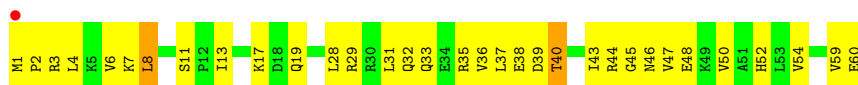
- Molecule 27: 50S RIBOSOMAL PROTEIN L29



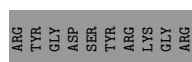
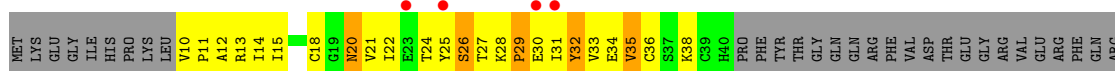
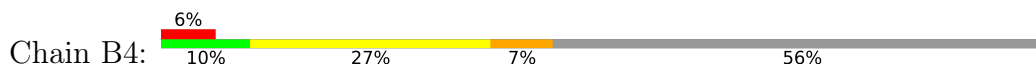
- Molecule 28: 50S RIBOSOMAL PROTEIN L30



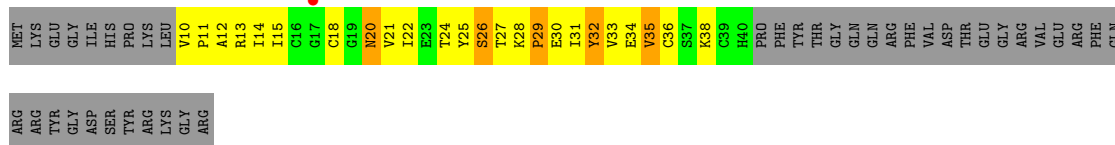
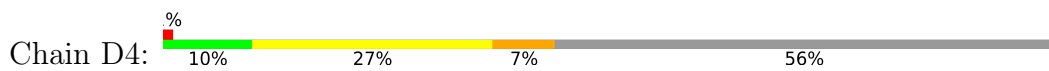
- Molecule 28: 50S RIBOSOMAL PROTEIN L30



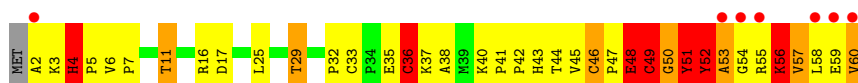
- Molecule 29: 50S RIBOSOMAL PROTEIN L31



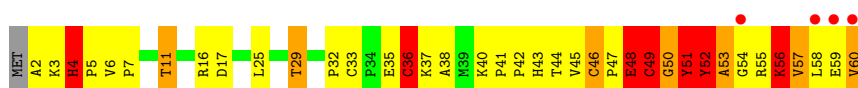
- Molecule 29: 50S RIBOSOMAL PROTEIN L31



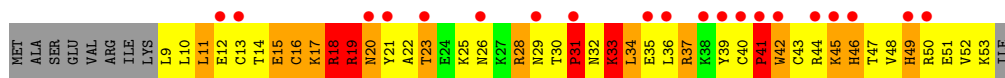
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



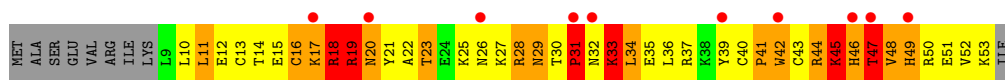
• Molecule 30: 50S RIBOSOMAL PROTEIN L32



• Molecule 31: 50S RIBOSOMAL PROTEIN L33



• Molecule 31: 50S RIBOSOMAL PROTEIN L33



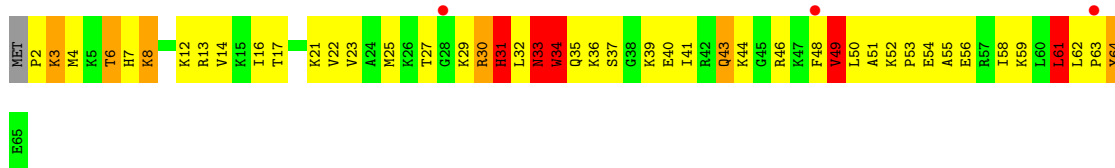
• Molecule 32: 50S RIBOSOMAL PROTEIN L34



• Molecule 32: 50S RIBOSOMAL PROTEIN L34



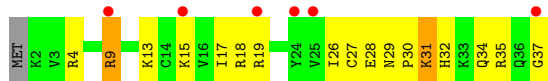
• Molecule 33: 50S RIBOSOMAL PROTEIN L35



• Molecule 33: 50S RIBOSOMAL PROTEIN L35



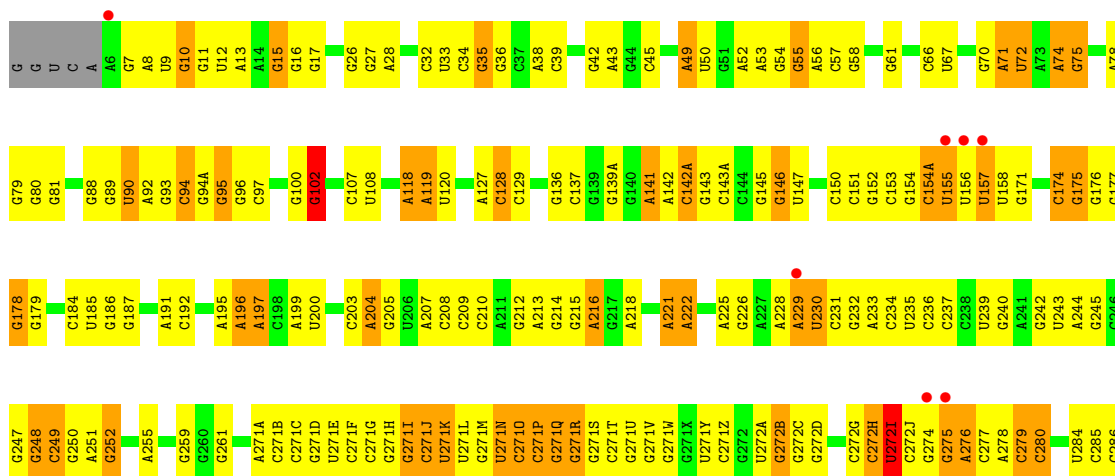
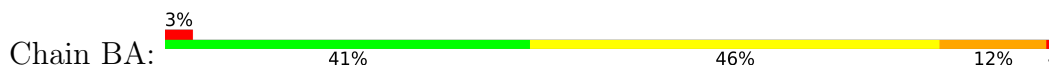
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

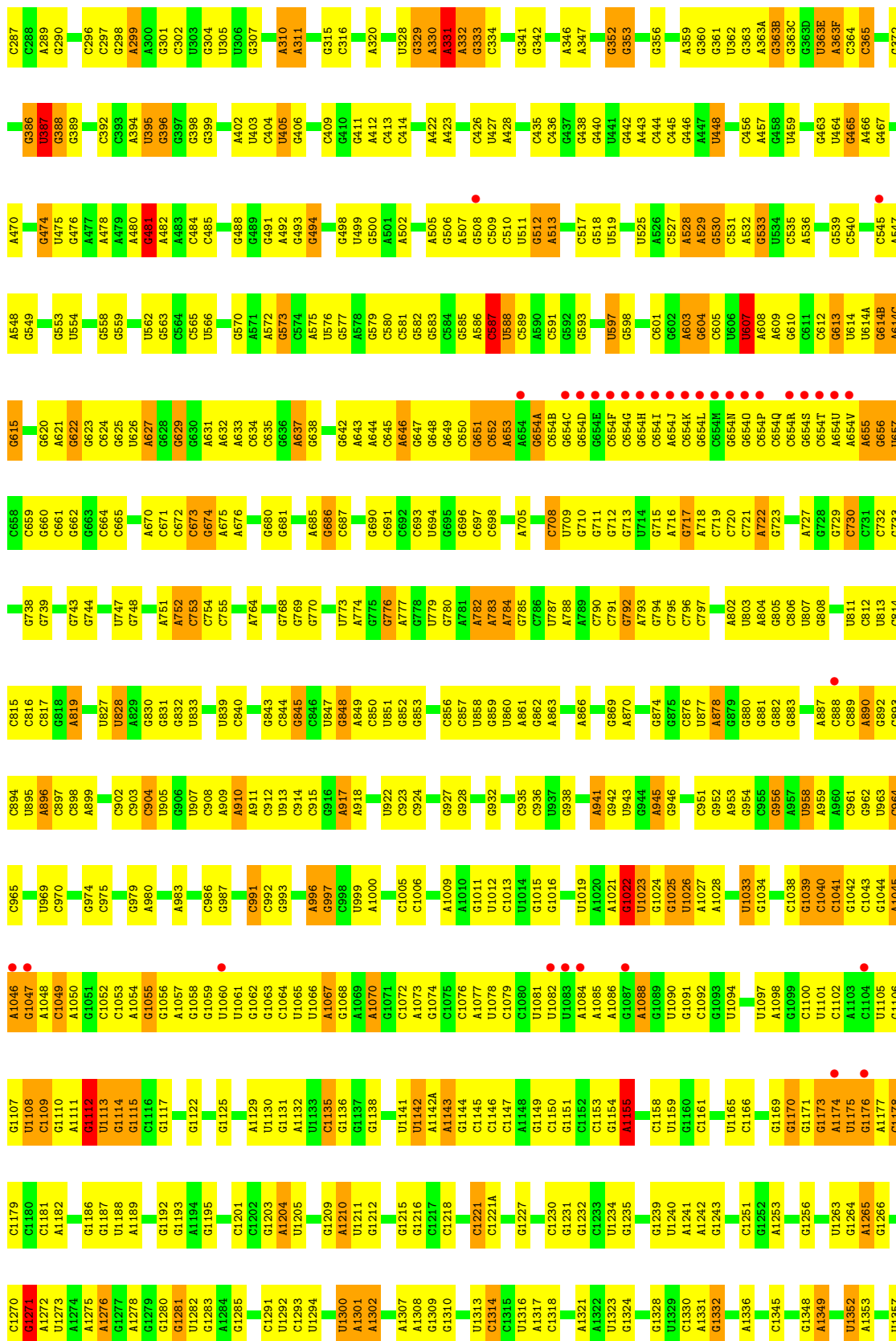


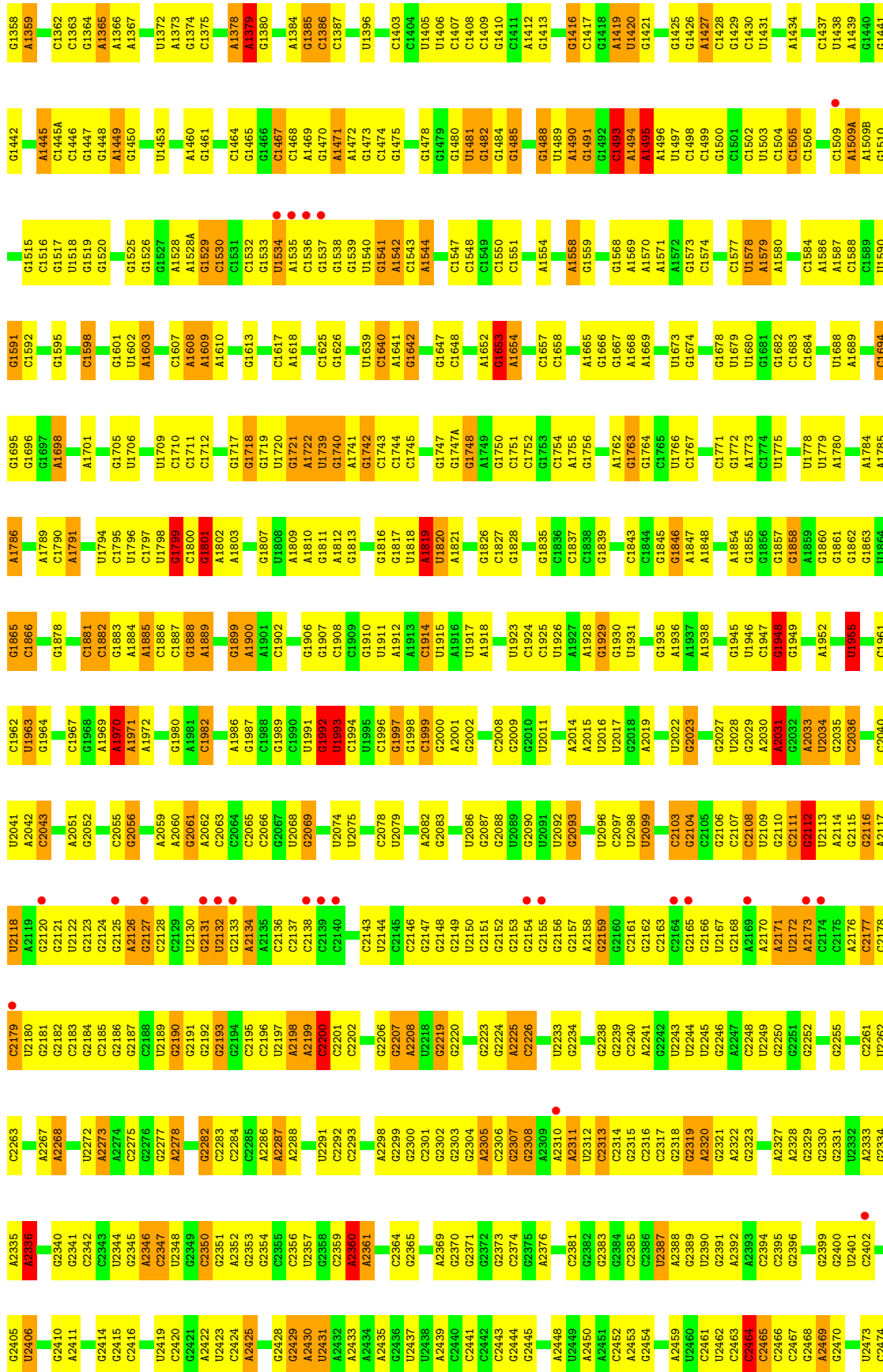
• Molecule 34: 50S RIBOSOMAL PROTEIN L36

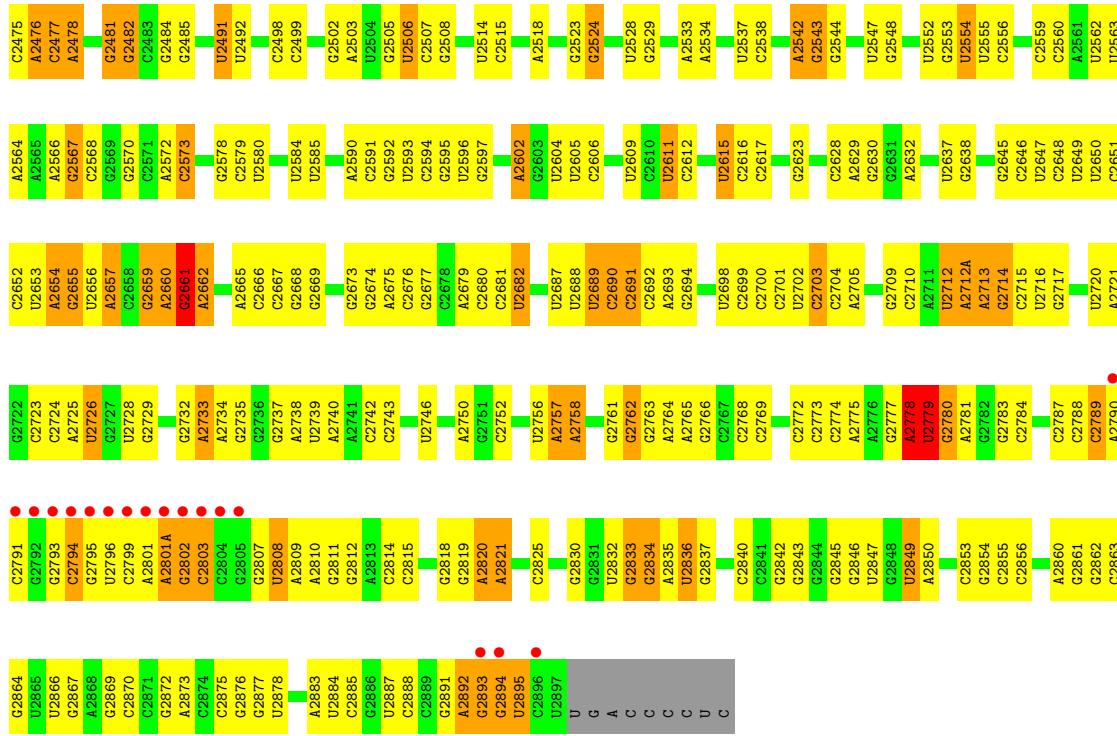


• Molecule 35: 23S RIBOSOMAL RNA

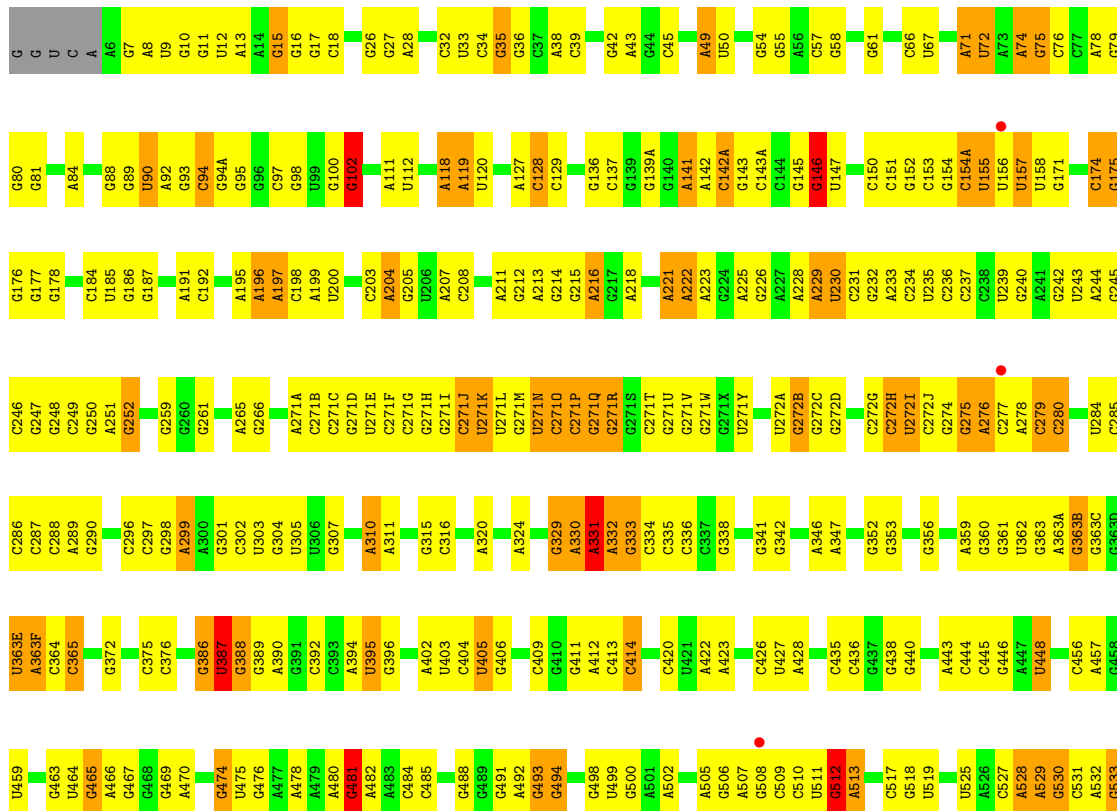


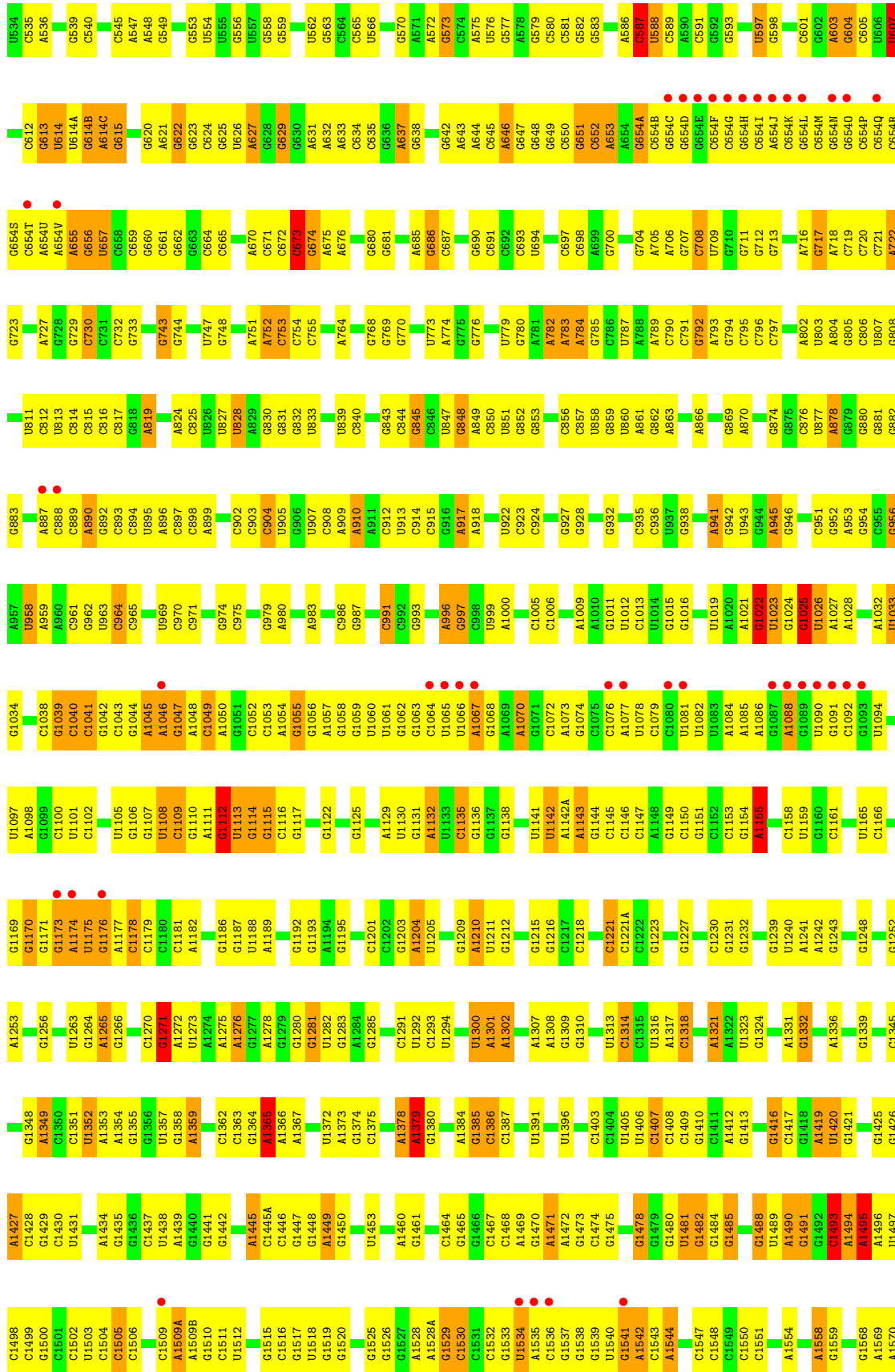


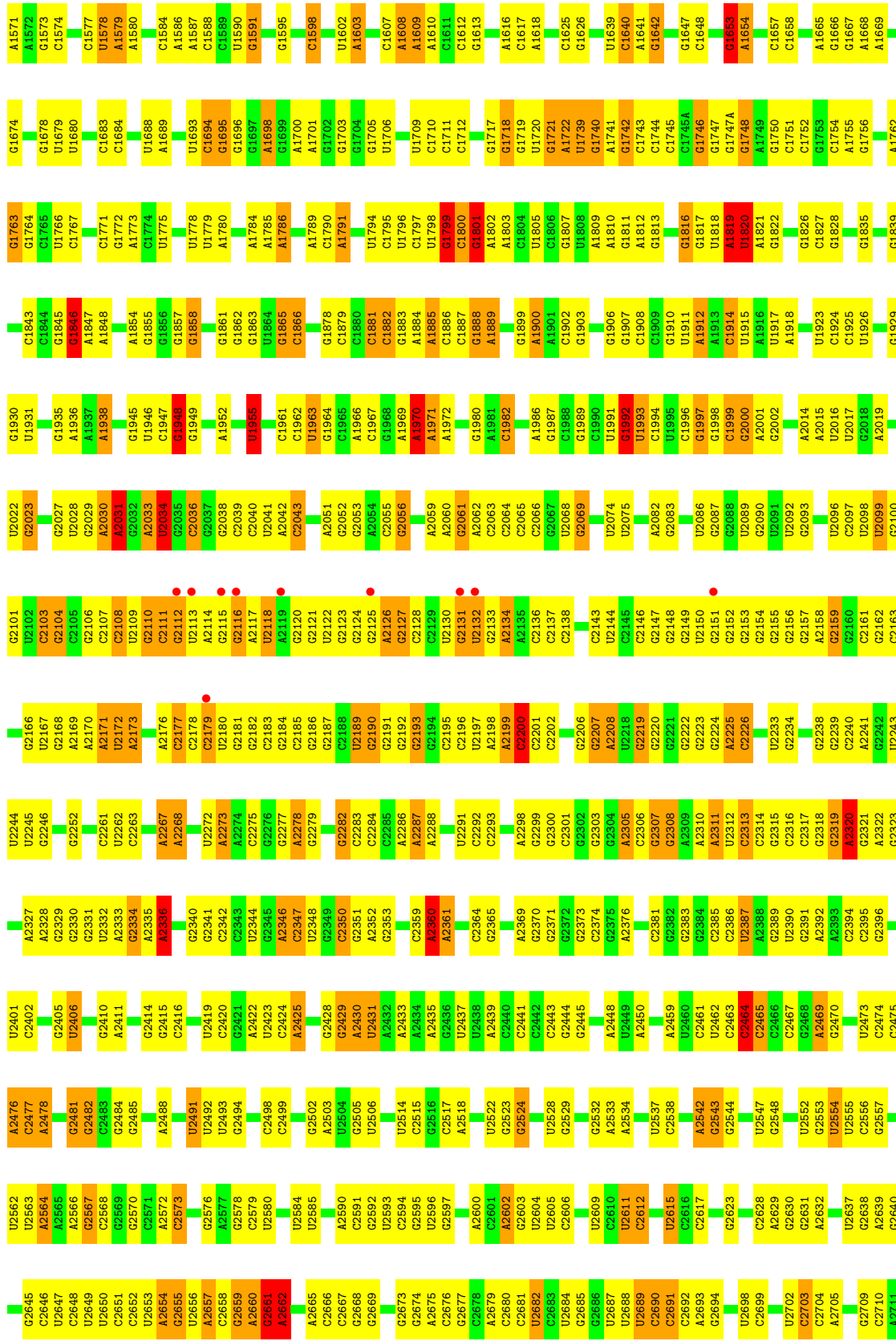


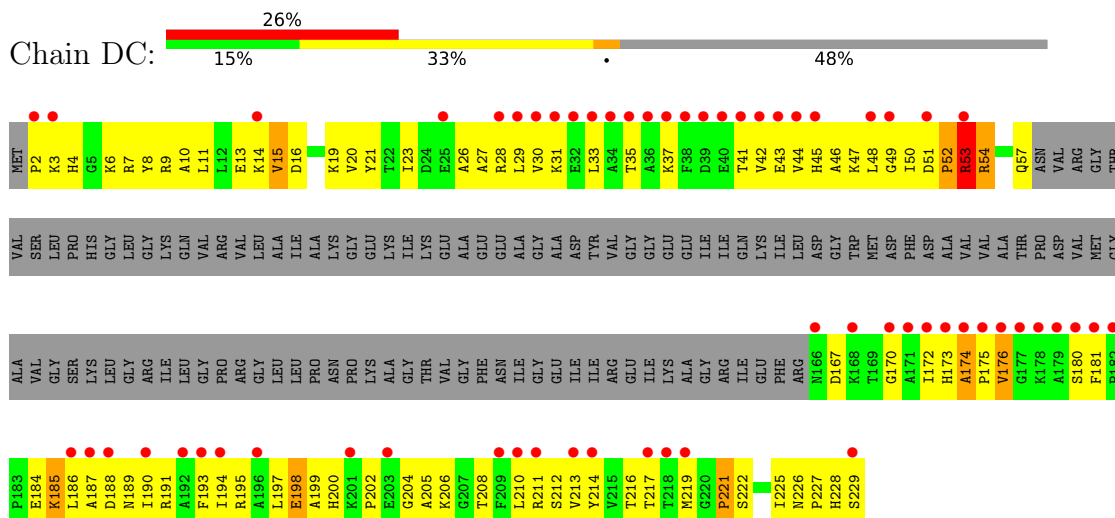


● Molecule 35: 23S RIBOSOMAL RNA

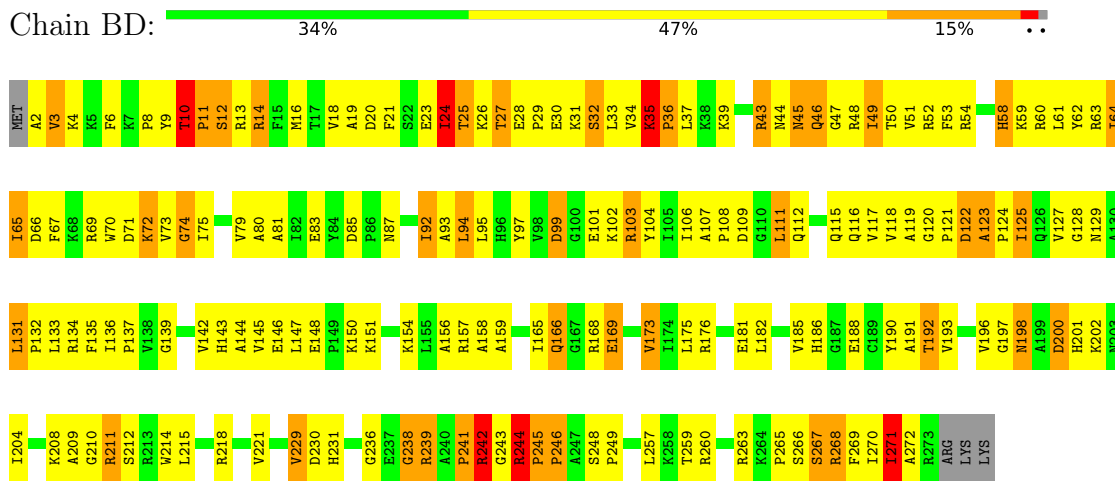




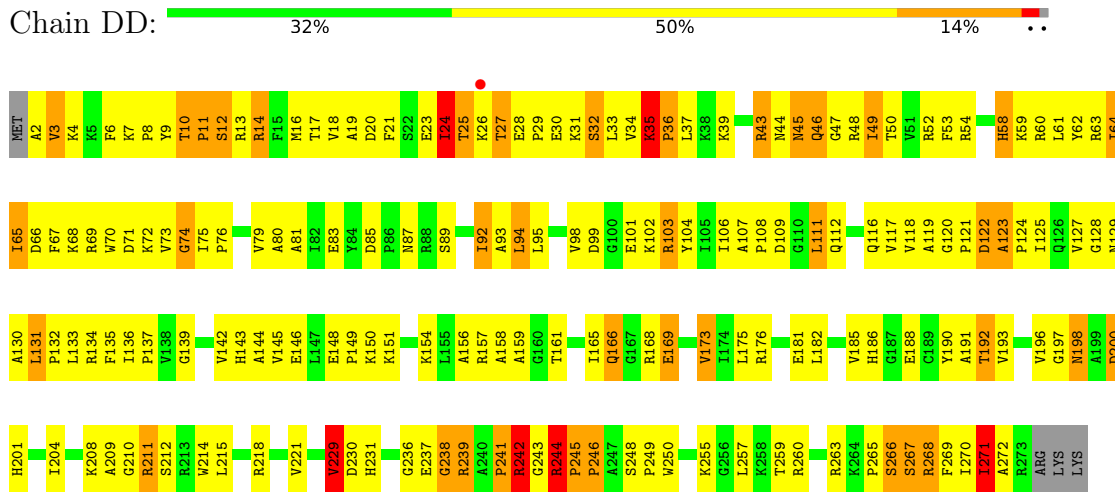




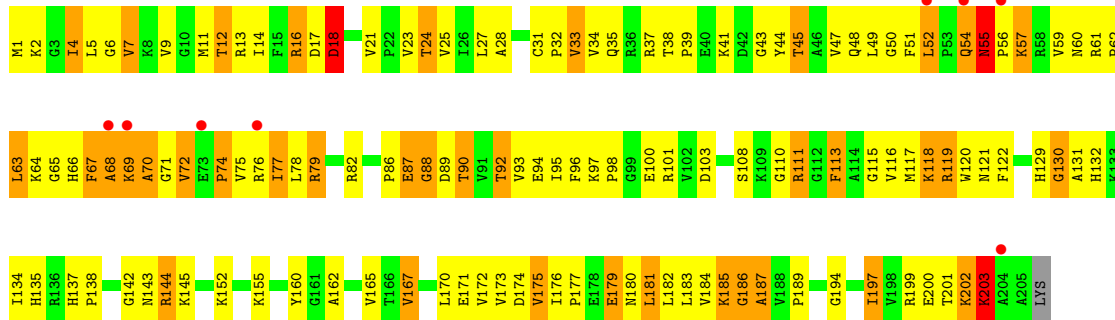
• Molecule 38: 50S RIBOSOMAL PROTEIN L2



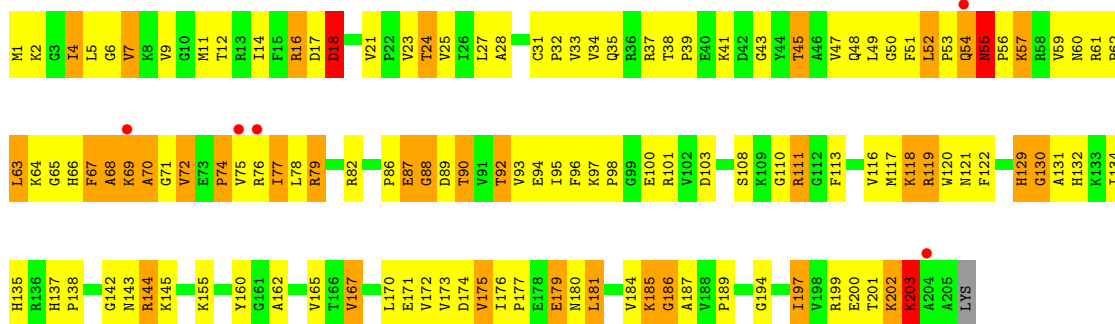
• Molecule 38: 50S RIBOSOMAL PROTEIN L2



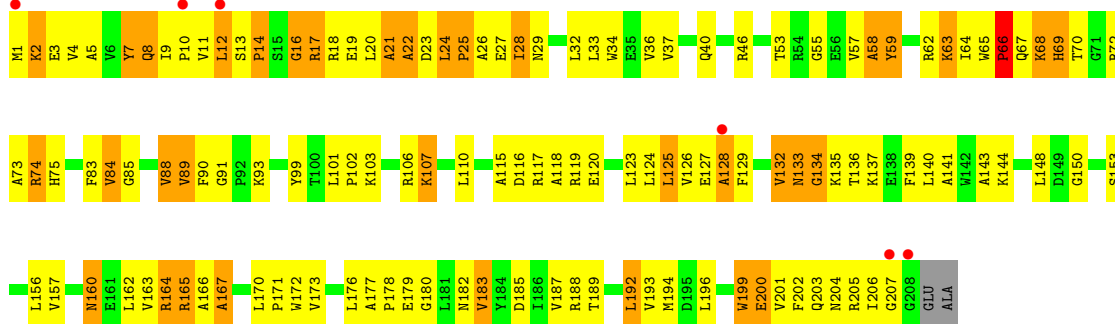
• Molecule 39: 50S RIBOSOMAL PROTEIN L3



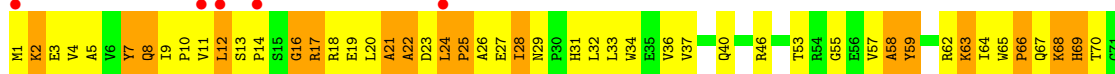
• Molecule 39: 50S RIBOSOMAL PROTEIN L3

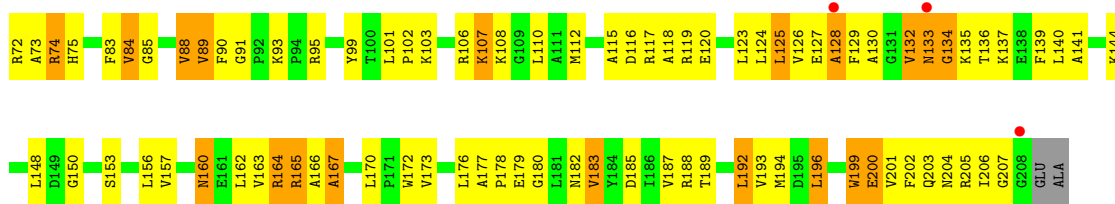


• Molecule 40: 50S RIBOSOMAL PROTEIN L4

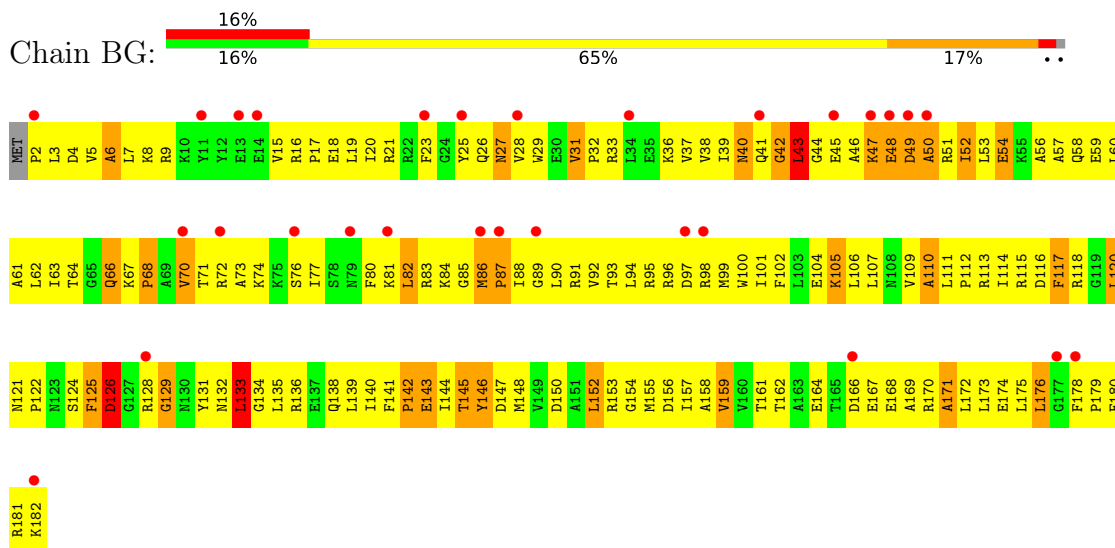


• Molecule 40: 50S RIBOSOMAL PROTEIN L4

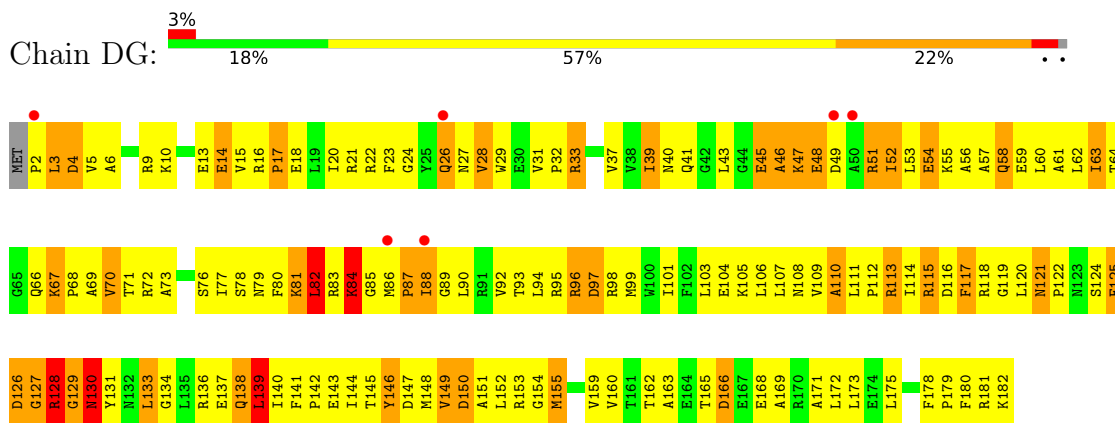




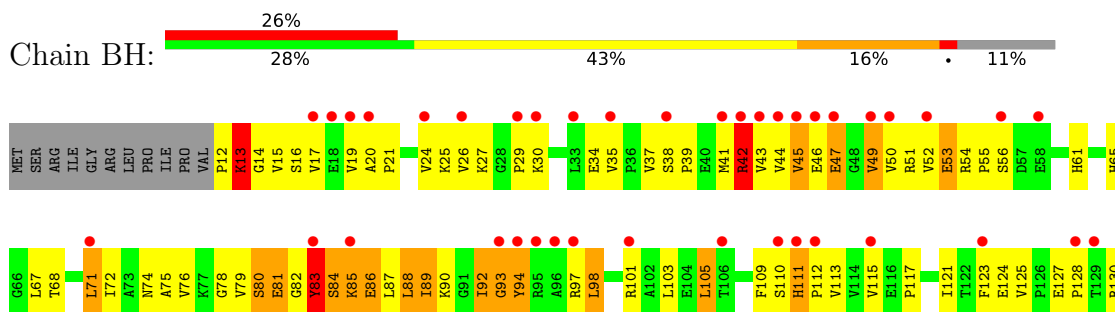
• Molecule 41: 50S RIBOSOMAL PROTEIN L5

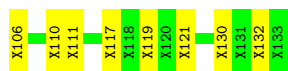


• Molecule 41: 50S RIBOSOMAL PROTEIN L5



• Molecule 42: 50S RIBOSOMAL PROTEIN L6

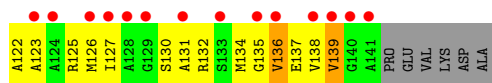
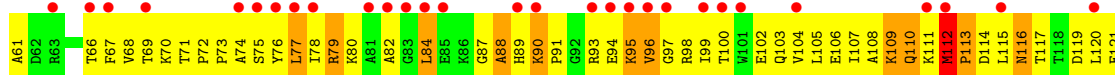
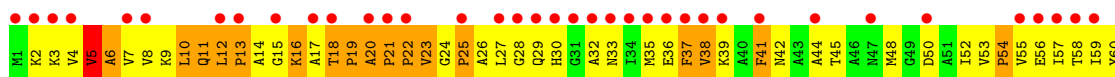




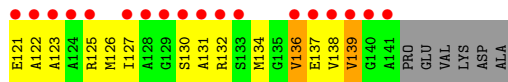
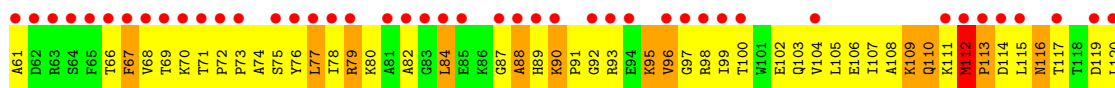
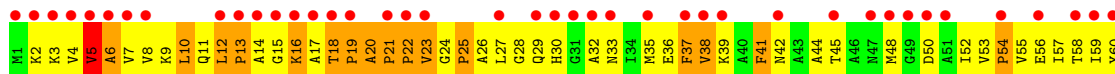
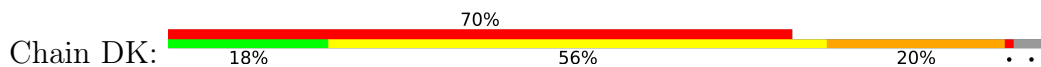
- Molecule 44: 50S RIBOSOMAL PROTEIN L10



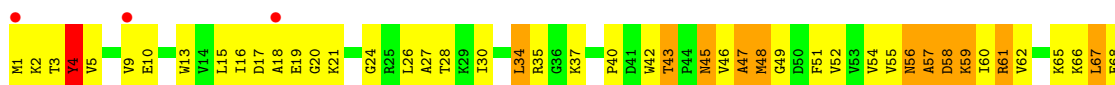
- Molecule 45: 50S RIBOSOMAL PROTEIN L11



- Molecule 45: 50S RIBOSOMAL PROTEIN L11

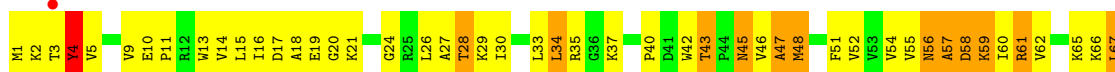


- Molecule 46: 50S RIBOSOMAL PROTEIN L13

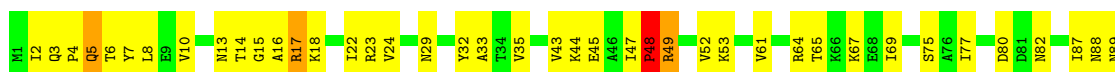




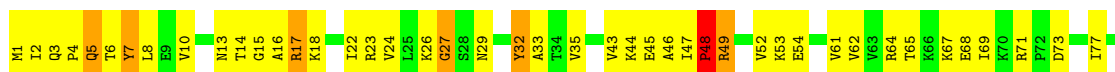
• Molecule 46: 50S RIBOSOMAL PROTEIN L13



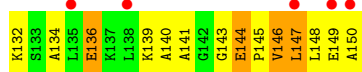
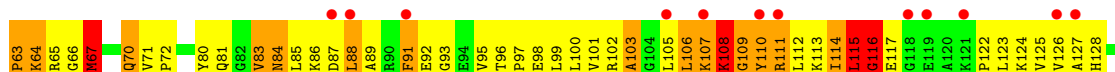
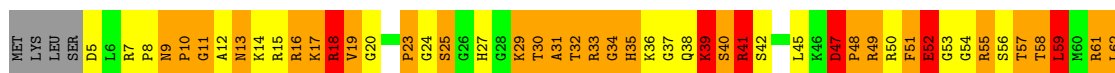
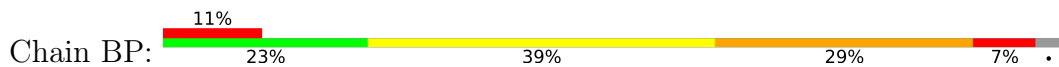
• Molecule 47: 50S RIBOSOMAL PROTEIN L14



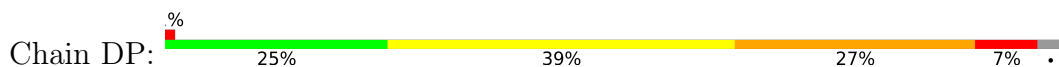
• Molecule 47: 50S RIBOSOMAL PROTEIN L14

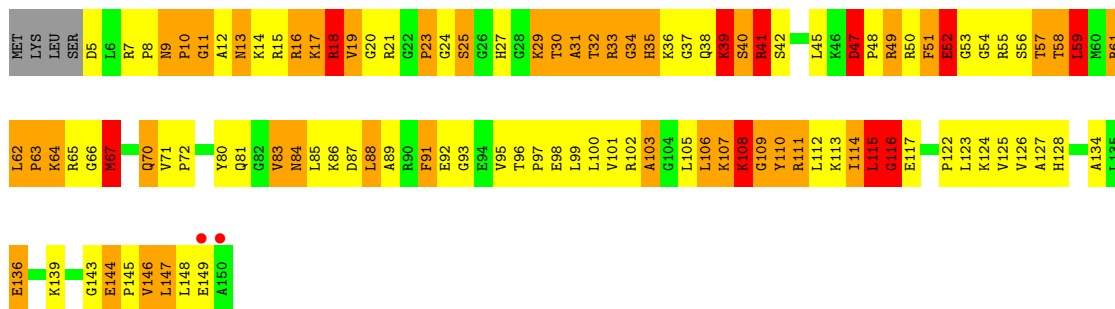


• Molecule 48: 50S RIBOSOMAL PROTEIN L15

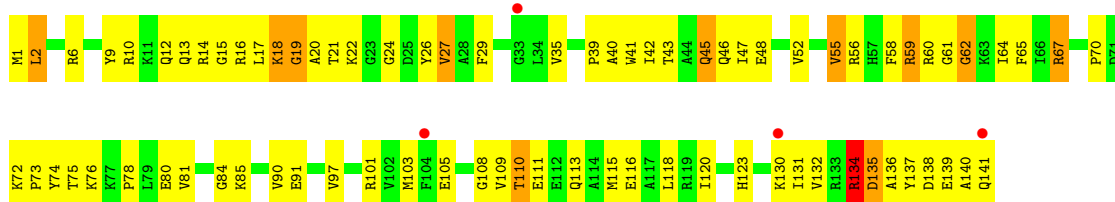


• Molecule 48: 50S RIBOSOMAL PROTEIN L15

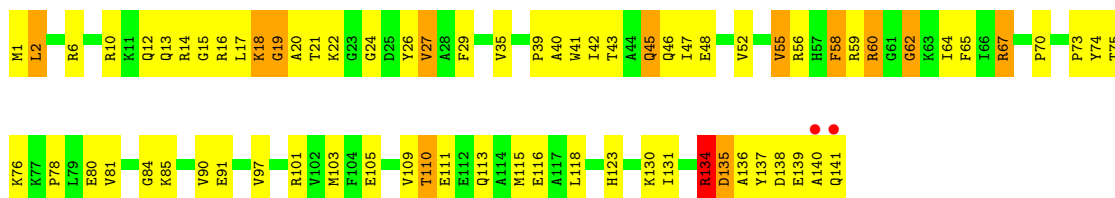




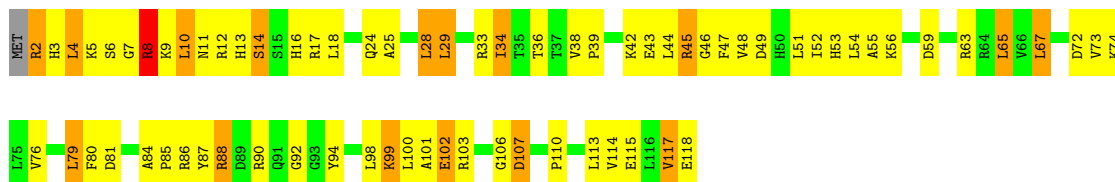
• Molecule 49: 50S RIBOSOMAL PROTEIN L16



• Molecule 49: 50S RIBOSOMAL PROTEIN L16

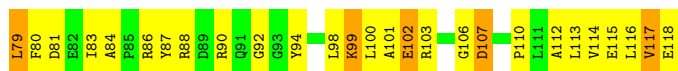


• Molecule 50: 50S RIBOSOMAL PROTEIN L17

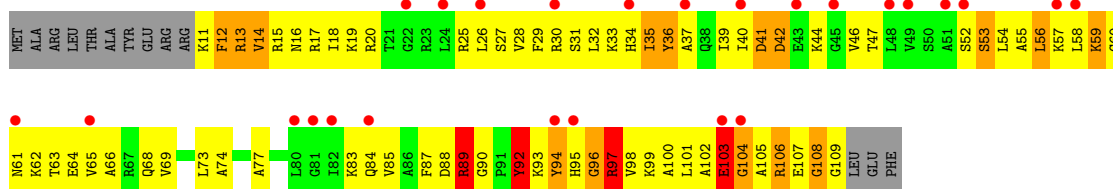
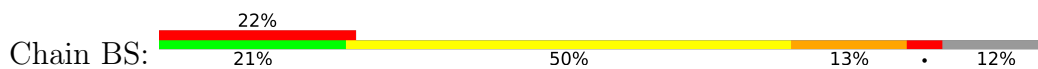


• Molecule 50: 50S RIBOSOMAL PROTEIN L17

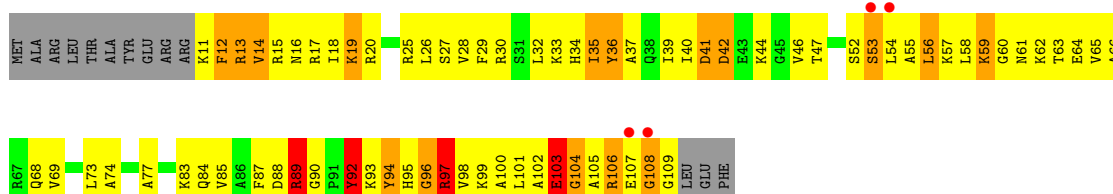




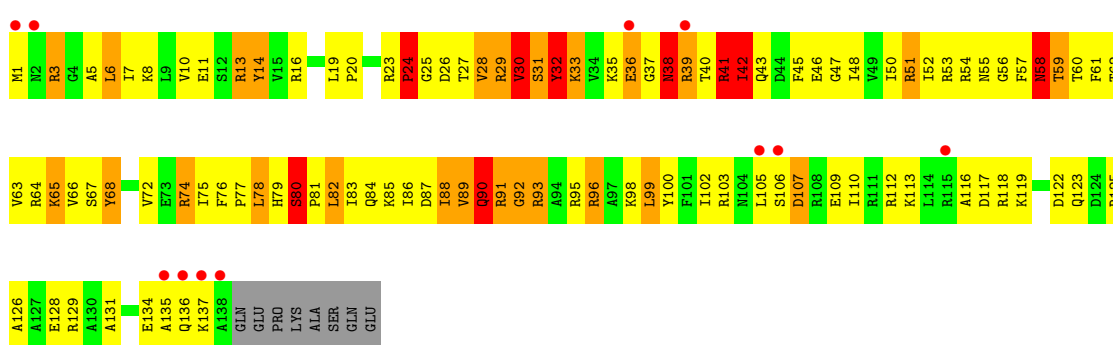
• Molecule 51: 50S RIBOSOMAL PROTEIN L18



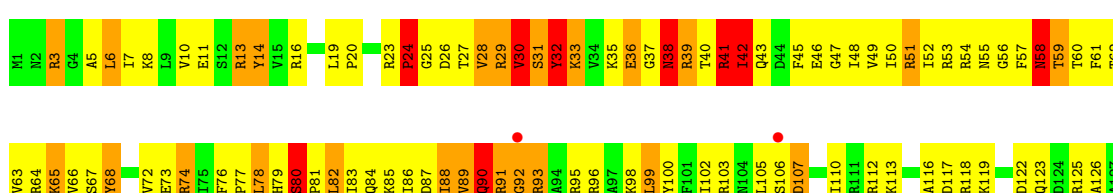
• Molecule 51: 50S RIBOSOMAL PROTEIN L18

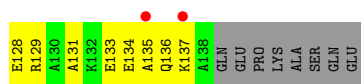


• Molecule 52: 50S RIBOSOMAL PROTEIN L19



• Molecule 52: 50S RIBOSOMAL PROTEIN L19

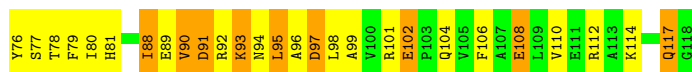
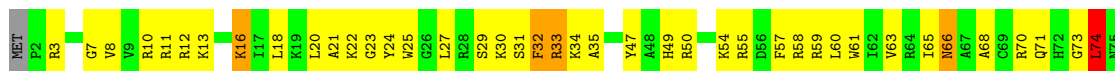




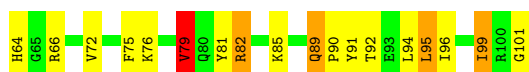
- Molecule 53: 50S RIBOSOMAL PROTEIN L20



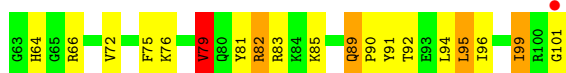
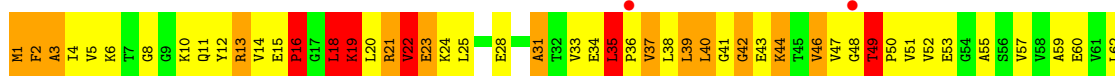
- Molecule 53: 50S RIBOSOMAL PROTEIN L20



- Molecule 54: 50S RIBOSOMAL PROTEIN L21

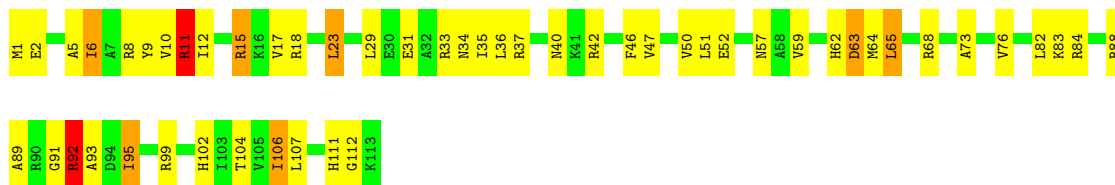


- Molecule 54: 50S RIBOSOMAL PROTEIN L21

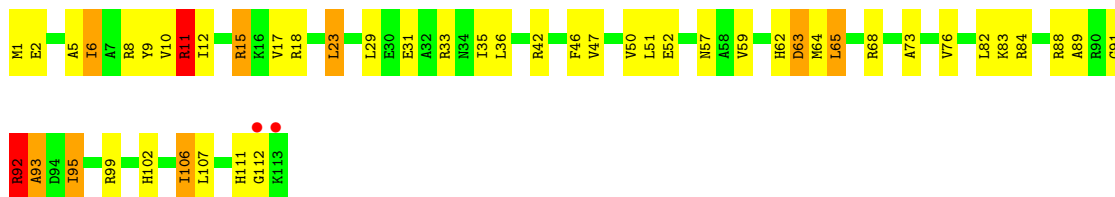


- Molecule 55: 50S RIBOSOMAL PROTEIN L22

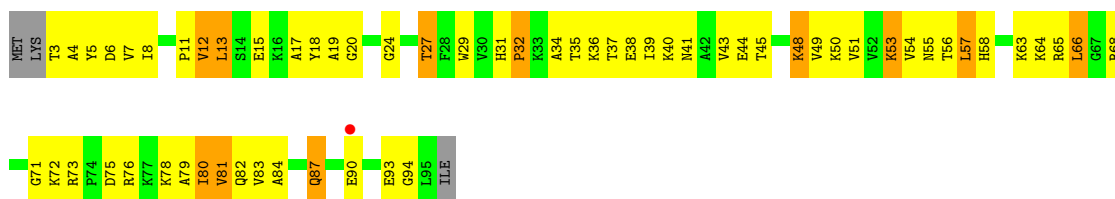




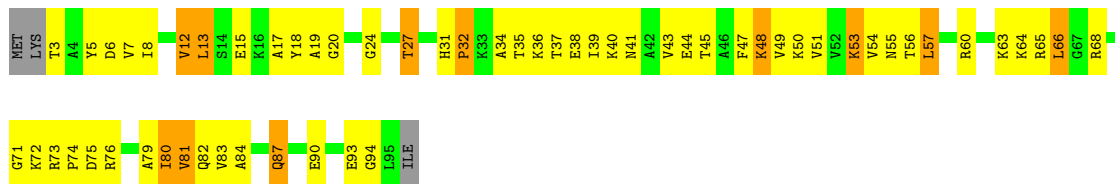
• Molecule 55: 50S RIBOSOMAL PROTEIN L22



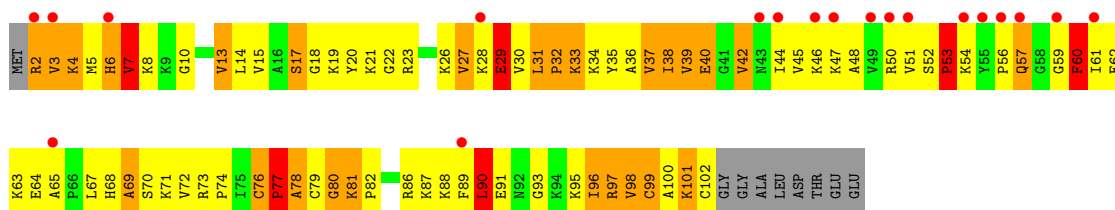
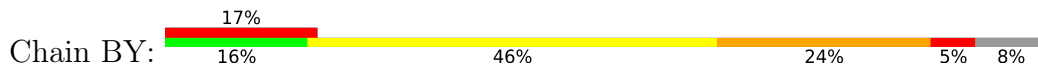
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



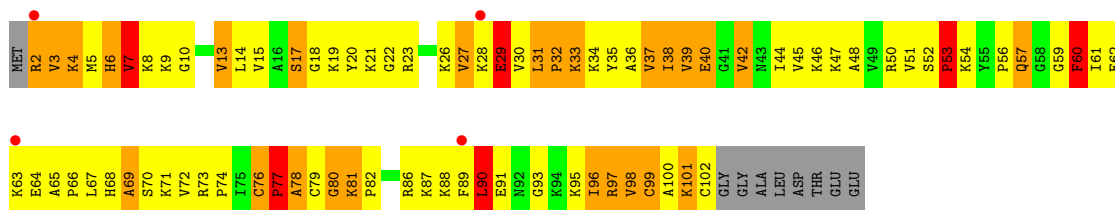
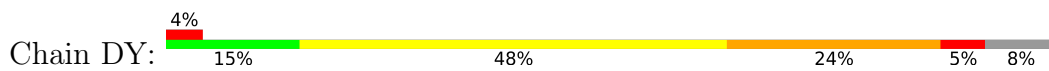
• Molecule 56: 50S RIBOSOMAL PROTEIN L23



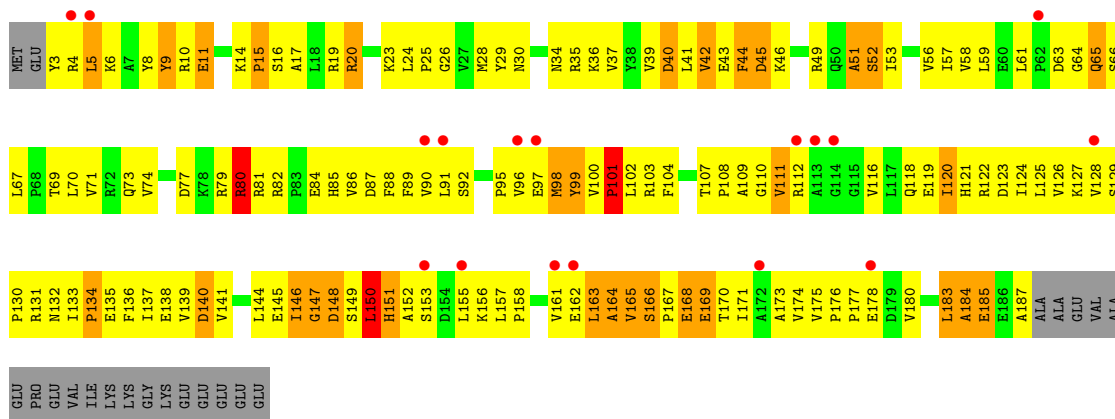
• Molecule 57: 50S RIBOSOMAL PROTEIN L24



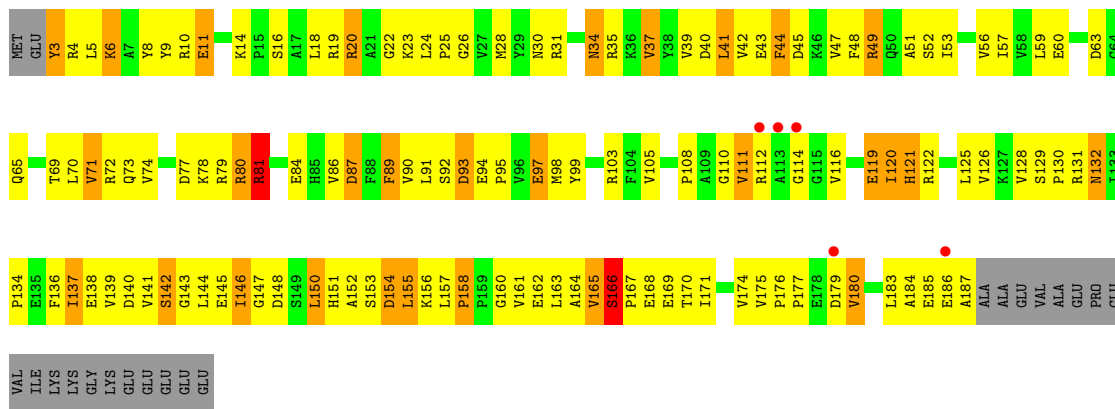
• Molecule 57: 50S RIBOSOMAL PROTEIN L24



• Molecule 58: 50S RIBOSOMAL PROTEIN L25



• Molecule 58: 50S RIBOSOMAL PROTEIN L25



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	211.42Å 452.50Å 625.44Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	47.86 – 3.10 49.71 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (47.86-3.10) 99.6 (49.71-3.00)	Depositor EDS
R_{merge}	0.16	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.59 (at 3.01Å)	Xtrriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.223 , 0.264 0.223 , 0.265	Depositor DCC
R_{free} test set	52374 reflections (4.44%)	wwPDB-VP
Wilson B-factor (Å ²)	55.0	Xtrriage
Anisotropy	0.035	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 79.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.40$, $\langle L^2 \rangle = 0.22$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	305067	wwPDB-VP
Average B, all atoms (Å ²)	89.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.49% 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, PHA, ZN, 8AN

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	0.37	0/36190	0.69	14/56486 (0.0%)
1	CA	0.39	0/36190	0.69	11/56486 (0.0%)
2	AB	0.31	0/1936	0.58	0/2611
2	CB	0.33	0/1936	0.58	0/2611
3	AC	0.32	0/1637	0.54	0/2207
3	CC	0.32	0/1637	0.54	0/2207
4	AD	0.33	0/1733	0.63	0/2318
4	CD	0.33	0/1733	0.62	0/2318
5	AE	0.34	0/1163	0.61	0/1566
5	CE	0.35	0/1163	0.62	0/1566
6	AF	0.32	0/856	0.63	0/1154
6	CF	0.34	0/856	0.64	0/1154
7	AG	0.30	0/1276	0.56	0/1709
7	CG	0.31	0/1276	0.56	0/1709
8	AH	0.32	0/1136	0.61	0/1527
8	CH	0.32	0/1136	0.62	0/1527
9	AI	0.31	0/1027	0.58	0/1372
9	CI	0.32	0/1027	0.58	0/1372
10	AJ	0.32	0/808	0.56	0/1087
10	CJ	0.33	0/808	0.56	0/1087
11	AK	0.32	0/900	0.58	0/1213
11	CK	0.36	0/900	0.59	0/1213
12	AL	0.36	0/987	0.67	0/1322
12	CL	0.36	0/987	0.67	0/1322
13	AM	0.30	0/994	0.56	0/1322
13	CM	0.32	0/994	0.56	0/1322
14	AN	0.31	0/501	0.53	0/664
14	CN	0.33	0/501	0.55	0/664
15	AO	0.32	0/745	0.57	0/992
15	CO	0.33	0/745	0.58	0/992
16	AP	0.36	0/717	0.58	0/965
16	CP	0.34	0/717	0.58	0/965

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.33	0/837	0.61	0/1119
17	CQ	0.35	0/837	0.61	0/1119
18	AR	0.33	0/579	0.60	0/768
18	CR	0.34	0/579	0.60	0/768
19	AS	0.34	0/643	0.56	0/867
19	CS	0.34	0/643	0.57	0/867
20	AT	0.29	0/765	0.58	0/1007
20	CT	0.29	0/765	0.58	0/1007
21	AU	0.41	0/213	0.49	0/279
21	CU	0.42	0/213	0.50	0/279
22	AV	0.38	0/1784	0.70	0/2780
22	AW	0.35	0/1784	0.71	0/2780
22	CV	0.44	0/1784	0.69	0/2780
22	CW	0.36	0/1784	0.70	0/2780
23	AX	0.39	0/184	0.74	0/284
23	CX	0.45	0/184	0.76	0/284
24	AY	0.31	0/2849	0.60	0/3848
24	CY	0.33	0/2849	0.66	0/3848
25	B0	0.36	0/666	0.63	0/885
25	D0	0.42	0/666	0.67	0/885
26	B1	0.41	0/739	0.73	1/983 (0.1%)
26	D1	0.50	0/739	0.79	0/983
27	B2	0.36	0/600	0.60	0/793
27	D2	0.46	0/600	0.79	0/793
28	B3	0.34	0/473	0.61	0/636
28	D3	0.43	0/473	0.65	0/636
29	B4	0.38	0/229	0.61	0/311
29	D4	0.40	0/229	0.62	0/311
30	B5	0.49	0/473	0.94	2/639 (0.3%)
30	D5	0.71	2/473 (0.4%)	1.01	2/639 (0.3%)
31	B6	0.48	0/387	0.79	0/517
31	D6	0.54	0/388	0.77	0/520
32	B7	0.46	0/427	0.67	0/563
32	D7	0.53	0/427	0.70	0/563
33	B8	0.50	0/516	0.78	0/681
33	D8	0.59	0/516	0.81	0/681
34	B9	0.33	0/302	0.63	0/397
34	D9	0.44	0/302	0.68	0/397
35	BA	0.46	1/69972 (0.0%)	0.74	51/109237 (0.0%)
35	DA	0.60	1/69972 (0.0%)	0.76	63/109237 (0.1%)
36	BB	0.37	0/2853	0.73	0/4451
36	DB	0.50	0/2853	0.74	0/4451
37	BC	0.27	0/956	0.51	0/1288

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DC	0.27	0/956	0.51	0/1288
38	BD	0.42	0/2155	0.77	1/2907 (0.0%)
38	DD	0.49	0/2155	0.80	2/2907 (0.1%)
39	BE	0.42	0/1597	0.77	0/2155
39	DE	0.52	0/1597	0.80	0/2155
40	BF	0.41	0/1659	0.72	1/2246 (0.0%)
40	DF	0.49	0/1659	0.76	1/2246 (0.0%)
41	BG	0.32	0/1498	0.62	0/2013
41	DG	0.39	0/1499	0.75	2/2016 (0.1%)
42	BH	0.35	0/1246	0.70	0/1684
42	DH	0.43	0/1246	0.73	0/1684
43	BI	0.36	0/1147	0.68	0/1553
43	DI	0.35	0/1147	0.74	0/1553
45	BK	0.33	0/1057	0.58	0/1432
45	DK	0.34	0/1057	0.58	0/1432
46	BN	0.37	0/1132	0.76	1/1527 (0.1%)
46	DN	0.47	0/1132	0.80	1/1527 (0.1%)
47	BO	0.42	0/943	0.69	0/1269
47	DO	0.47	0/943	0.71	0/1269
48	BP	0.44	0/1131	0.99	7/1504 (0.5%)
48	DP	0.55	0/1131	1.04	7/1504 (0.5%)
49	BQ	0.37	0/1143	0.66	0/1527
49	DQ	0.46	0/1143	0.69	0/1527
50	BR	0.39	0/974	0.73	2/1302 (0.2%)
50	DR	0.48	0/974	0.77	2/1302 (0.2%)
51	BS	0.39	0/779	0.70	0/1038
51	DS	0.48	0/779	0.73	0/1038
52	BT	0.43	0/1156	0.81	3/1544 (0.2%)
52	DT	0.48	0/1156	0.83	3/1544 (0.2%)
53	BU	0.41	0/975	0.68	1/1297 (0.1%)
53	DU	0.54	0/975	0.75	2/1297 (0.2%)
54	BV	0.38	0/790	0.73	0/1057
54	DV	0.48	0/790	0.79	0/1057
55	BW	0.39	0/907	0.70	0/1216
55	DW	0.48	0/907	0.74	0/1216
56	BX	0.41	0/740	0.70	0/995
56	DX	0.49	0/740	0.73	0/995
57	BY	0.44	0/789	0.75	0/1053
57	DY	0.52	0/789	0.77	1/1053 (0.1%)
58	BZ	0.36	0/1500	0.65	0/2037
58	DZ	0.42	0/1500	0.71	0/2037
All	All	0.46	4/328312 (0.0%)	0.72	181/489974 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	AA	1	15
1	CA	1	17
22	AW	0	1
22	CV	0	1
22	CW	0	3
30	B5	0	2
30	D5	0	2
35	BA	5	59
35	DA	6	77
36	BB	0	2
36	DB	0	3
All	All	13	182

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	D5	49	CYS	CB-SG	5.59	1.91	1.82
35	DA	2685	G	C6-O6	5.54	1.29	1.24
35	BA	1899	G	C2-N2	-5.53	1.29	1.34
30	D5	51	TYR	CD1-CE1	5.27	1.47	1.39

The worst 5 of 181 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
35	BA	1992	G	C2'-C3'-O3'	10.98	133.66	109.50
35	DA	1992	G	C2'-C3'-O3'	10.73	133.11	109.50
35	DA	331	A	C2'-C3'-O3'	9.84	131.14	109.50
35	BA	331	A	C2'-C3'-O3'	9.40	130.19	109.50
35	DA	1653	G	C2'-C3'-O3'	9.16	129.65	109.50

5 of 13 chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	AA	1504	G	C3'
35	BA	587	C	C3'
35	BA	1300	U	C3'
35	BA	1799	G	C3'
35	BA	1819	A	C3'

5 of 182 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	AA	21	G	Sidechain
1	AA	575	G	Sidechain
1	AA	587	G	Sidechain
1	AA	760	G	Sidechain
1	AA	832	C	Sidechain

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32329	0	16314	1204	0
1	CA	32329	0	16316	1222	0
2	AB	1901	0	1951	258	0
2	CB	1901	0	1951	259	0
3	AC	1613	0	1677	199	0
3	CC	1613	0	1677	196	0
4	AD	1703	0	1763	219	0
4	CD	1703	0	1763	207	0
5	AE	1147	0	1207	125	0
5	CE	1147	0	1207	125	0
6	AF	843	0	857	88	0
6	CF	843	0	857	95	0
7	AG	1257	0	1296	113	0
7	CG	1257	0	1296	121	0
8	AH	1116	0	1177	118	0
8	CH	1116	0	1177	113	0
9	AI	1011	0	1041	126	0
9	CI	1011	0	1041	129	0
10	AJ	795	0	840	146	0
10	CJ	795	0	840	144	0
11	AK	885	0	904	74	0
11	CK	885	0	904	77	0
12	AL	971	0	1057	122	0
12	CL	971	0	1057	124	0
13	AM	988	0	1055	161	0
13	CM	988	0	1055	153	0
14	AN	492	0	530	66	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
14	CN	492	0	529	65	0
15	AO	734	0	771	55	0
15	CO	734	0	771	52	0
16	AP	701	0	720	81	0
16	CP	701	0	720	87	0
17	AQ	824	0	891	62	0
17	CQ	824	0	891	63	0
18	AR	574	0	644	59	0
18	CR	574	0	644	59	0
19	AS	630	0	651	98	0
19	CS	630	0	651	100	0
20	AT	763	0	861	73	0
20	CT	763	0	861	78	0
21	AU	209	0	221	24	0
21	CU	209	0	221	26	0
22	AV	1630	0	831	76	0
22	AW	1630	0	831	101	0
22	CV	1630	0	831	65	0
22	CW	1630	0	832	110	0
23	AX	165	0	87	11	0
23	CX	165	0	87	17	0
24	AY	2801	0	2816	377	0
24	CY	2801	0	2816	430	0
25	B0	657	0	683	58	0
25	D0	657	0	683	55	0
26	B1	732	0	808	88	0
26	D1	732	0	808	80	0
27	B2	598	0	653	81	0
27	D2	598	0	653	77	0
28	B3	468	0	523	40	0
28	D3	468	0	523	42	0
29	B4	226	0	229	46	0
29	D4	226	0	229	45	0
30	B5	459	0	480	74	0
30	D5	459	0	480	74	0
31	B6	381	0	390	73	0
31	D6	381	0	389	149	0
32	B7	419	0	467	19	0
32	D7	419	0	467	22	0
33	B8	508	0	576	103	0
33	D8	508	0	576	103	0
34	B9	299	0	323	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	D9	299	0	323	24	0
35	BA	62474	0	31492	1876	0
35	DA	62474	0	31493	1854	0
36	BB	2551	0	1295	80	0
36	DB	2551	0	1295	70	0
37	BC	937	0	957	106	0
37	DC	937	0	957	108	0
38	BD	2105	0	2182	248	0
38	DD	2105	0	2182	254	0
39	BE	1564	0	1629	191	0
39	DE	1564	0	1629	192	0
40	BF	1624	0	1677	189	0
40	DF	1624	0	1677	188	0
41	BG	1474	0	1534	286	0
41	DG	1474	0	1535	240	0
42	BH	1223	0	1282	139	0
42	DH	1223	0	1282	145	0
43	BI	1132	0	1218	179	0
43	DI	1132	0	1218	181	0
44	BJ	651	0	151	34	0
44	DJ	651	0	151	34	0
45	BK	1038	0	1089	196	0
45	DK	1038	0	1089	192	0
46	BN	1105	0	1180	127	0
46	DN	1105	0	1180	134	0
47	BO	933	0	996	84	0
47	DO	933	0	996	93	0
48	BP	1114	0	1187	268	0
48	DP	1114	0	1187	263	0
49	BQ	1122	0	1179	127	0
49	DQ	1122	0	1179	110	0
50	BR	960	0	1021	93	0
50	DR	960	0	1021	94	0
51	BS	771	0	832	126	0
51	DS	771	0	832	121	0
52	BT	1142	0	1202	223	0
52	DT	1142	0	1202	228	0
53	BU	958	0	1015	103	0
53	DU	958	0	1015	109	0
54	BV	779	0	852	132	0
54	DV	779	0	852	133	0
55	BW	896	0	953	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
55	DW	896	0	953	50	0
56	BX	726	0	778	73	0
56	DX	726	0	778	70	0
57	BY	776	0	870	178	0
57	DY	776	0	870	190	0
58	BZ	1468	0	1492	228	0
58	DZ	1468	0	1492	188	0
59	AA	161	0	0	0	0
59	AL	1	0	0	0	0
59	AS	1	0	0	0	0
59	AV	7	0	0	0	0
59	AW	4	0	0	0	0
59	AX	1	0	0	0	0
59	AY	1	0	0	0	0
59	B1	1	0	0	0	0
59	B5	2	0	0	0	0
59	BA	357	0	0	0	0
59	BB	4	0	0	0	0
59	BD	2	0	0	0	0
59	BF	2	0	0	0	0
59	BG	1	0	0	0	0
59	BT	1	0	0	0	0
59	BX	1	0	0	0	0
59	BY	1	0	0	0	0
59	CA	155	0	0	0	0
59	CD	1	0	0	0	0
59	CL	2	0	0	0	0
59	CN	1	0	0	0	0
59	CS	1	0	0	0	0
59	CV	7	0	0	0	0
59	CW	4	0	0	0	0
59	CX	1	0	0	0	0
59	D1	1	0	0	0	0
59	D5	2	0	0	0	0
59	DA	359	0	0	0	0
59	DB	4	0	0	0	0
59	DD	1	0	0	0	0
59	DE	1	0	0	0	0
59	DF	1	0	0	0	0
59	DG	1	0	0	0	0
59	DH	1	0	0	0	0
59	DP	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
59	DS	1	0	0	0	0
59	DX	1	0	0	0	0
60	AD	1	0	0	0	0
60	AN	1	0	0	0	0
60	B9	1	0	0	0	0
60	CD	1	0	0	0	0
60	CN	1	0	0	0	0
60	D9	1	0	0	0	0
61	AV	1	0	0	0	0
61	AY	1	0	0	0	0
61	BA	1	0	0	1	0
All	All	305067	0	208379	18089	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 35.

The worst 5 of 18089 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CY:303:ARG:HH22	35:DA:1914:C:C1'	1.34	1.39
24:CY:303:ARG:NH2	35:DA:1914:C:H1'	1.33	1.39
31:D6:41:PRO:HD3	31:D6:46:HIS:CB	1.55	1.36
31:D6:46:HIS:CA	31:D6:47:THR:HG23	1.58	1.33
35:DA:1899:G:N2	35:DA:1902:C:H41	1.26	1.32

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%)	127 (54%)	71 (30%)	35 (15%)	0 0

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	CB	233/256 (91%)	128 (55%)	70 (30%)	35 (15%)	0	0
3	AC	205/239 (86%)	129 (63%)	40 (20%)	36 (18%)	0	0
3	CC	205/239 (86%)	129 (63%)	42 (20%)	34 (17%)	0	0
4	AD	206/209 (99%)	139 (68%)	45 (22%)	22 (11%)	0	2
4	CD	206/209 (99%)	139 (68%)	44 (21%)	23 (11%)	0	2
5	AE	149/162 (92%)	115 (77%)	23 (15%)	11 (7%)	1	6
5	CE	149/162 (92%)	114 (76%)	24 (16%)	11 (7%)	1	6
6	AF	99/101 (98%)	70 (71%)	21 (21%)	8 (8%)	1	5
6	CF	99/101 (98%)	73 (74%)	18 (18%)	8 (8%)	1	5
7	AG	153/156 (98%)	117 (76%)	26 (17%)	10 (6%)	1	8
7	CG	153/156 (98%)	117 (76%)	27 (18%)	9 (6%)	1	10
8	AH	136/138 (99%)	106 (78%)	23 (17%)	7 (5%)	2	13
8	CH	136/138 (99%)	104 (76%)	24 (18%)	8 (6%)	1	10
9	AI	121/128 (94%)	86 (71%)	24 (20%)	11 (9%)	1	4
9	CI	121/128 (94%)	86 (71%)	24 (20%)	11 (9%)	1	4
10	AJ	97/105 (92%)	70 (72%)	22 (23%)	5 (5%)	2	12
10	CJ	97/105 (92%)	71 (73%)	21 (22%)	5 (5%)	2	12
11	AK	117/129 (91%)	86 (74%)	27 (23%)	4 (3%)	3	21
11	CK	117/129 (91%)	87 (74%)	26 (22%)	4 (3%)	3	21
12	AL	123/132 (93%)	84 (68%)	21 (17%)	18 (15%)	0	1
12	CL	123/132 (93%)	84 (68%)	21 (17%)	18 (15%)	0	1
13	AM	113/126 (90%)	71 (63%)	25 (22%)	17 (15%)	0	0
13	CM	113/126 (90%)	70 (62%)	26 (23%)	17 (15%)	0	0
14	AN	58/61 (95%)	40 (69%)	13 (22%)	5 (9%)	1	4
14	CN	58/61 (95%)	40 (69%)	12 (21%)	6 (10%)	0	3
15	AO	86/89 (97%)	66 (77%)	18 (21%)	2 (2%)	6	28
15	CO	86/89 (97%)	66 (77%)	18 (21%)	2 (2%)	6	28
16	AP	82/88 (93%)	58 (71%)	17 (21%)	7 (8%)	1	5
16	CP	82/88 (93%)	58 (71%)	16 (20%)	8 (10%)	0	3
17	AQ	98/105 (93%)	76 (78%)	13 (13%)	9 (9%)	1	4
17	CQ	98/105 (93%)	76 (78%)	12 (12%)	10 (10%)	0	3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
18	AR	68/88 (77%)	45 (66%)	16 (24%)	7 (10%)	0	3
18	CR	68/88 (77%)	45 (66%)	15 (22%)	8 (12%)	0	1
19	AS	77/93 (83%)	44 (57%)	22 (29%)	11 (14%)	0	1
19	CS	77/93 (83%)	44 (57%)	22 (29%)	11 (14%)	0	1
20	AT	97/106 (92%)	63 (65%)	26 (27%)	8 (8%)	1	5
20	CT	97/106 (92%)	63 (65%)	24 (25%)	10 (10%)	0	3
21	AU	23/27 (85%)	16 (70%)	5 (22%)	2 (9%)	1	4
21	CU	23/27 (85%)	16 (70%)	5 (22%)	2 (9%)	1	4
24	AY	349/351 (99%)	263 (75%)	65 (19%)	21 (6%)	1	9
24	CY	349/351 (99%)	272 (78%)	55 (16%)	22 (6%)	1	8
25	B0	81/85 (95%)	69 (85%)	11 (14%)	1 (1%)	13	44
25	D0	81/85 (95%)	69 (85%)	11 (14%)	1 (1%)	13	44
26	B1	92/98 (94%)	64 (70%)	16 (17%)	12 (13%)	0	1
26	D1	92/98 (94%)	72 (78%)	12 (13%)	8 (9%)	1	4
27	B2	69/72 (96%)	46 (67%)	12 (17%)	11 (16%)	0	0
27	D2	69/72 (96%)	42 (61%)	16 (23%)	11 (16%)	0	0
28	B3	58/60 (97%)	52 (90%)	6 (10%)	0	100	100
28	D3	58/60 (97%)	52 (90%)	6 (10%)	0	100	100
29	B4	29/71 (41%)	16 (55%)	10 (34%)	3 (10%)	0	3
29	D4	29/71 (41%)	16 (55%)	10 (34%)	3 (10%)	0	3
30	B5	57/60 (95%)	41 (72%)	5 (9%)	11 (19%)	0	0
30	D5	57/60 (95%)	41 (72%)	5 (9%)	11 (19%)	0	0
31	B6	41/54 (76%)	18 (44%)	7 (17%)	16 (39%)	0	0
31	D6	43/54 (80%)	17 (40%)	9 (21%)	17 (40%)	0	0
32	B7	47/49 (96%)	47 (100%)	0	0	100	100
32	D7	47/49 (96%)	46 (98%)	1 (2%)	0	100	100
33	B8	62/65 (95%)	43 (69%)	11 (18%)	8 (13%)	0	1
33	D8	62/65 (95%)	44 (71%)	9 (14%)	9 (14%)	0	1
34	B9	34/37 (92%)	31 (91%)	2 (6%)	1 (3%)	4	24
34	D9	34/37 (92%)	31 (91%)	2 (6%)	1 (3%)	4	24
37	BC	116/229 (51%)	88 (76%)	19 (16%)	9 (8%)	1	5

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	DC	116/229 (51%)	88 (76%)	19 (16%)	9 (8%)	1	5
38	BD	270/276 (98%)	203 (75%)	37 (14%)	30 (11%)	0	2
38	DD	270/276 (98%)	205 (76%)	37 (14%)	28 (10%)	0	3
39	BE	203/206 (98%)	146 (72%)	34 (17%)	23 (11%)	0	2
39	DE	203/206 (98%)	149 (73%)	32 (16%)	22 (11%)	0	2
40	BF	206/210 (98%)	149 (72%)	33 (16%)	24 (12%)	0	1
40	DF	206/210 (98%)	149 (72%)	34 (16%)	23 (11%)	0	2
41	BG	177/182 (97%)	98 (55%)	50 (28%)	29 (16%)	0	0
41	DG	179/182 (98%)	123 (69%)	26 (14%)	30 (17%)	0	0
42	BH	158/180 (88%)	105 (66%)	27 (17%)	26 (16%)	0	0
42	DH	158/180 (88%)	105 (66%)	28 (18%)	25 (16%)	0	0
43	BI	144/148 (97%)	86 (60%)	34 (24%)	24 (17%)	0	0
43	DI	144/148 (97%)	90 (62%)	40 (28%)	14 (10%)	0	3
45	BK	139/147 (95%)	78 (56%)	37 (27%)	24 (17%)	0	0
45	DK	139/147 (95%)	78 (56%)	37 (27%)	24 (17%)	0	0
46	BN	137/140 (98%)	105 (77%)	24 (18%)	8 (6%)	1	10
46	DN	137/140 (98%)	103 (75%)	26 (19%)	8 (6%)	1	10
47	BO	120/122 (98%)	101 (84%)	14 (12%)	5 (4%)	3	16
47	DO	120/122 (98%)	102 (85%)	12 (10%)	6 (5%)	2	13
48	BP	144/150 (96%)	71 (49%)	32 (22%)	41 (28%)	0	0
48	DP	144/150 (96%)	71 (49%)	33 (23%)	40 (28%)	0	0
49	BQ	139/141 (99%)	108 (78%)	25 (18%)	6 (4%)	2	16
49	DQ	139/141 (99%)	109 (78%)	23 (16%)	7 (5%)	2	13
50	BR	115/118 (98%)	92 (80%)	15 (13%)	8 (7%)	1	7
50	DR	115/118 (98%)	93 (81%)	14 (12%)	8 (7%)	1	7
51	BS	97/112 (87%)	51 (53%)	29 (30%)	17 (18%)	0	0
51	DS	97/112 (87%)	51 (53%)	28 (29%)	18 (19%)	0	0
52	BT	136/146 (93%)	84 (62%)	33 (24%)	19 (14%)	0	1
52	DT	136/146 (93%)	85 (62%)	32 (24%)	19 (14%)	0	1
53	BU	115/118 (98%)	97 (84%)	11 (10%)	7 (6%)	1	9
53	DU	115/118 (98%)	98 (85%)	9 (8%)	8 (7%)	1	7

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
54	BV	99/101 (98%)	72 (73%)	12 (12%)	15 (15%)	0	0
54	DV	99/101 (98%)	72 (73%)	11 (11%)	16 (16%)	0	0
55	BW	111/113 (98%)	93 (84%)	10 (9%)	8 (7%)	1	6
55	DW	111/113 (98%)	93 (84%)	10 (9%)	8 (7%)	1	6
56	BX	91/96 (95%)	73 (80%)	10 (11%)	8 (9%)	1	4
56	DX	91/96 (95%)	73 (80%)	10 (11%)	8 (9%)	1	4
57	BY	99/110 (90%)	55 (56%)	17 (17%)	27 (27%)	0	0
57	DY	99/110 (90%)	54 (54%)	18 (18%)	27 (27%)	0	0
58	BZ	183/206 (89%)	107 (58%)	45 (25%)	31 (17%)	0	0
58	DZ	183/206 (89%)	127 (69%)	38 (21%)	18 (10%)	0	3
All	All	12522/13582 (92%)	8790 (70%)	2335 (19%)	1397 (11%)	0	2

5 of 1397 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	12	GLU
2	AB	15	VAL
2	AB	19	HIS
2	AB	20	GLU
2	AB	64	ARG

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%)	185 (92%)	17 (8%)	11	38
2	CB	202/220 (92%)	185 (92%)	17 (8%)	11	38
3	AC	160/188 (85%)	146 (91%)	14 (9%)	10	36
3	CC	160/188 (85%)	146 (91%)	14 (9%)	10	36
4	AD	180/181 (99%)	160 (89%)	20 (11%)	6	24
4	CD	180/181 (99%)	159 (88%)	21 (12%)	5	22

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
5	AE	115/123 (94%)	110 (96%)	5 (4%)	29	62
5	CE	115/123 (94%)	110 (96%)	5 (4%)	29	62
6	AF	90/90 (100%)	87 (97%)	3 (3%)	38	69
6	CF	90/90 (100%)	87 (97%)	3 (3%)	38	69
7	AG	126/127 (99%)	121 (96%)	5 (4%)	31	65
7	CG	126/127 (99%)	121 (96%)	5 (4%)	31	65
8	AH	119/119 (100%)	115 (97%)	4 (3%)	37	69
8	CH	119/119 (100%)	114 (96%)	5 (4%)	30	62
9	AI	98/99 (99%)	89 (91%)	9 (9%)	9	33
9	CI	98/99 (99%)	89 (91%)	9 (9%)	9	33
10	AJ	88/92 (96%)	82 (93%)	6 (7%)	16	45
10	CJ	88/92 (96%)	82 (93%)	6 (7%)	16	45
11	AK	90/99 (91%)	86 (96%)	4 (4%)	28	61
11	CK	90/99 (91%)	86 (96%)	4 (4%)	28	61
12	AL	104/109 (95%)	90 (86%)	14 (14%)	4	16
12	CL	104/109 (95%)	90 (86%)	14 (14%)	4	16
13	AM	99/101 (98%)	92 (93%)	7 (7%)	14	44
13	CM	99/101 (98%)	91 (92%)	8 (8%)	11	39
14	AN	49/50 (98%)	45 (92%)	4 (8%)	11	38
14	CN	49/50 (98%)	45 (92%)	4 (8%)	11	38
15	AO	79/80 (99%)	73 (92%)	6 (8%)	13	41
15	CO	79/80 (99%)	73 (92%)	6 (8%)	13	41
16	AP	72/74 (97%)	68 (94%)	4 (6%)	21	52
16	CP	72/74 (97%)	68 (94%)	4 (6%)	21	52
17	AQ	94/97 (97%)	92 (98%)	2 (2%)	53	79
17	CQ	94/97 (97%)	92 (98%)	2 (2%)	53	79
18	AR	61/77 (79%)	59 (97%)	2 (3%)	38	69
18	CR	61/77 (79%)	59 (97%)	2 (3%)	38	69
19	AS	69/80 (86%)	60 (87%)	9 (13%)	4	18
19	CS	69/80 (86%)	59 (86%)	10 (14%)	3	13
20	AT	76/82 (93%)	70 (92%)	6 (8%)	12	40

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	CT	76/82 (93%)	69 (91%)	7 (9%)	9	33
21	AU	19/22 (86%)	17 (90%)	2 (10%)	7	26
21	CU	19/22 (86%)	17 (90%)	2 (10%)	7	26
24	AY	298/298 (100%)	267 (90%)	31 (10%)	7	27
24	CY	298/298 (100%)	265 (89%)	33 (11%)	6	24
25	B0	66/67 (98%)	61 (92%)	5 (8%)	13	41
25	D0	66/67 (98%)	61 (92%)	5 (8%)	13	41
26	B1	78/83 (94%)	69 (88%)	9 (12%)	5	22
26	D1	78/83 (94%)	68 (87%)	10 (13%)	4	18
27	B2	66/67 (98%)	64 (97%)	2 (3%)	41	71
27	D2	66/67 (98%)	56 (85%)	10 (15%)	3	12
28	B3	51/52 (98%)	49 (96%)	2 (4%)	32	65
28	D3	51/52 (98%)	49 (96%)	2 (4%)	32	65
29	B4	27/63 (43%)	25 (93%)	2 (7%)	13	42
29	D4	27/63 (43%)	25 (93%)	2 (7%)	13	42
30	B5	51/52 (98%)	43 (84%)	8 (16%)	2	11
30	D5	51/52 (98%)	43 (84%)	8 (16%)	2	11
31	B6	43/52 (83%)	34 (79%)	9 (21%)	1	5
31	D6	43/52 (83%)	33 (77%)	10 (23%)	1	3
32	B7	41/42 (98%)	39 (95%)	2 (5%)	25	57
32	D7	41/42 (98%)	39 (95%)	2 (5%)	25	57
33	B8	53/55 (96%)	43 (81%)	10 (19%)	1	6
33	D8	53/55 (96%)	43 (81%)	10 (19%)	1	6
34	B9	33/34 (97%)	32 (97%)	1 (3%)	41	71
34	D9	33/34 (97%)	32 (97%)	1 (3%)	41	71
37	BC	99/181 (55%)	96 (97%)	3 (3%)	41	71
37	DC	99/181 (55%)	96 (97%)	3 (3%)	41	71
38	BD	213/218 (98%)	183 (86%)	30 (14%)	3	15
38	DD	213/218 (98%)	184 (86%)	29 (14%)	3	16
39	BE	165/166 (99%)	140 (85%)	25 (15%)	3	12
39	DE	165/166 (99%)	141 (86%)	24 (14%)	3	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
40	BF	165/166 (99%)	149 (90%)	16 (10%)	8	30
40	DF	165/166 (99%)	149 (90%)	16 (10%)	8	30
41	BG	155/156 (99%)	138 (89%)	17 (11%)	6	25
41	DG	155/156 (99%)	133 (86%)	22 (14%)	3	14
42	BH	132/148 (89%)	116 (88%)	16 (12%)	5	20
42	DH	132/148 (89%)	116 (88%)	16 (12%)	5	20
43	BI	122/124 (98%)	112 (92%)	10 (8%)	11	38
43	DI	122/124 (98%)	101 (83%)	21 (17%)	2	9
45	BK	106/111 (96%)	91 (86%)	15 (14%)	3	14
45	DK	106/111 (96%)	92 (87%)	14 (13%)	4	17
46	BN	117/119 (98%)	107 (92%)	10 (8%)	10	37
46	DN	117/119 (98%)	107 (92%)	10 (8%)	10	37
47	BO	100/100 (100%)	94 (94%)	6 (6%)	19	49
47	DO	100/100 (100%)	94 (94%)	6 (6%)	19	49
48	BP	112/116 (97%)	89 (80%)	23 (20%)	1	5
48	DP	112/116 (97%)	89 (80%)	23 (20%)	1	5
49	BQ	111/111 (100%)	101 (91%)	10 (9%)	9	34
49	DQ	111/111 (100%)	100 (90%)	11 (10%)	8	29
50	BR	100/101 (99%)	84 (84%)	16 (16%)	2	11
50	DR	100/101 (99%)	84 (84%)	16 (16%)	2	11
51	BS	77/88 (88%)	66 (86%)	11 (14%)	3	14
51	DS	77/88 (88%)	66 (86%)	11 (14%)	3	14
52	BT	120/127 (94%)	97 (81%)	23 (19%)	1	6
52	DT	120/127 (94%)	98 (82%)	22 (18%)	1	7
53	BU	92/94 (98%)	84 (91%)	8 (9%)	10	36
53	DU	92/94 (98%)	84 (91%)	8 (9%)	10	36
54	BV	82/82 (100%)	64 (78%)	18 (22%)	1	4
54	DV	82/82 (100%)	64 (78%)	18 (22%)	1	4
55	BW	91/92 (99%)	81 (89%)	10 (11%)	6	25
55	DW	91/92 (99%)	81 (89%)	10 (11%)	6	25
56	BX	74/78 (95%)	63 (85%)	11 (15%)	3	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
56	DX	74/78 (95%)	63 (85%)	11 (15%)	3	13
57	BY	84/91 (92%)	70 (83%)	14 (17%)	2	9
57	DY	84/91 (92%)	70 (83%)	14 (17%)	2	9
58	BZ	162/179 (90%)	152 (94%)	10 (6%)	18	49
58	DZ	162/179 (90%)	140 (86%)	22 (14%)	3	16
All	All	10552/11246 (94%)	9458 (90%)	1094 (10%)	7	27

5 of 1094 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
47	DO	49	ARG
49	DQ	45	GLN
47	DO	48	PRO
55	DW	51	LEU
48	BP	70	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 365 such sidechains are listed below:

Mol	Chain	Res	Type
13	CM	77	ASN
38	DD	201	HIS
16	CP	76	GLN
27	D2	38	GLN
41	DG	26	GLN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1522 (98%)	203 (13%)	32 (2%)
1	CA	1503/1522 (98%)	207 (13%)	31 (2%)
22	AV	74/77 (96%)	18 (24%)	0
22	AW	74/77 (96%)	17 (22%)	0
22	CV	74/77 (96%)	19 (25%)	0
22	CW	74/77 (96%)	17 (22%)	1 (1%)
23	AX	7/8 (87%)	3 (42%)	0
23	CX	7/8 (87%)	2 (28%)	1 (14%)
35	BA	2900/2915 (99%)	503 (17%)	54 (1%)
35	DA	2900/2915 (99%)	509 (17%)	56 (1%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
36	BB	118/122 (96%)	13 (11%)	1 (0%)
36	DB	118/122 (96%)	13 (11%)	1 (0%)
All	All	9352/9442 (99%)	1524 (16%)	177 (1%)

5 of 1524 RNA backbone outliers are listed below:

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

5 of 177 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	CA	1300	G
35	DA	1210	A
23	CX	15	A
35	DA	387	U
35	DA	1558	A

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

8 non-standard protein/DNA/RNA residues are modelled in this entry.

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	$\# Z > 2$
22	8AN	AW	76	35,22	19,24,25	0.89	1 (5%)	13,35,38	0.96	1 (7%)
22	8AN	CW	76	35,22	19,24,25	0.74	0	13,35,38	1.08	1 (7%)
22	8AN	CV	76	35,22,59	19,24,25	0.76	1 (5%)	13,35,38	0.98	1 (7%)
22	PHA	CW	77	22	10,11,11	1.00	0	10,13,13	0.22	0
22	PHA	AW	77	22	10,11,11	1.14	0	10,13,13	0.38	0
22	8AN	AV	76	35,22,59	19,24,25	0.78	1 (5%)	13,35,38	1.01	1 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
22	PHA	CV	77	22	10,11,11	0.92	0	10,13,13	0.56	0
22	PHA	AV	77	22	10,11,11	1.01	0	10,13,13	0.45	0

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
22	8AN	AW	76	35,22	-	1/3/25/26	0/3/3/3
22	8AN	CW	76	35,22	-	0/3/25/26	0/3/3/3
22	8AN	CV	76	35,22,59	-	1/3/25/26	0/3/3/3
22	PHA	CW	77	22	-	3/5/6/6	0/1/1/1
22	PHA	AW	77	22	-	2/5/6/6	0/1/1/1
22	8AN	AV	76	35,22,59	-	1/3/25/26	0/3/3/3
22	PHA	CV	77	22	-	4/5/6/6	0/1/1/1
22	PHA	AV	77	22	-	3/5/6/6	0/1/1/1

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	AV	76	8AN	C3'-N3'	-2.27	1.43	1.47
22	AW	76	8AN	C3'-N3'	-2.15	1.44	1.47
22	CV	76	8AN	C3'-N3'	-2.13	1.44	1.47

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	AV	76	8AN	O4'-C4'-C3'	2.24	107.36	104.15
22	AW	76	8AN	C5-C6-N6	2.18	123.67	120.35
22	CV	76	8AN	O4'-C4'-C3'	2.08	107.13	104.15
22	CW	76	8AN	C5-C6-N6	2.05	123.46	120.35

There are no chirality outliers.

5 of 15 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
22	AV	76	8AN	C4'-C5'-O5'-P
22	AV	77	PHA	C-CA-CB-CG
22	AW	77	PHA	C-CA-CB-CG

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Mol	Chain	Res	Type	Atoms
22	CV	76	8AN	C4'-C5'-O5'-P
22	CV	77	PHA	C-CA-CB-CG

There are no ring outliers.

8 monomers are involved in 36 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
22	AW	76	8AN	2	0
22	CW	76	8AN	3	0
22	CV	76	8AN	2	0
22	CW	77	PHA	7	0
22	AW	77	PHA	12	0
22	AV	76	8AN	7	0
22	CV	77	PHA	4	0
22	AV	77	PHA	3	0

5.5 Carbohydrates [i](#)

There are no monosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1100 ligands modelled in this entry, 1100 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	AM	5
13	CM	5
9	AI	2
9	CI	2
31	B6	1
41	BG	1

The worst 5 of 16 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	46:HIS	C	47:THR	N	7.42
1	AI	104:ARG	C	105:ASP	N	4.76
1	CI	104:ARG	C	105:ASP	N	4.74
1	AM	112:GLY	C	113:PRO	N	4.66
1	CM	112:GLY	C	113:PRO	N	4.66

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%)	0.05	41 (2%) 54 31	44, 101, 185, 201	0
1	CA	1504/1522 (98%)	-0.00	37 (2%) 57 34	34, 96, 178, 201	0
2	AB	235/256 (91%)	0.69	24 (10%) 6 2	81, 138, 188, 201	0
2	CB	235/256 (91%)	0.39	18 (7%) 13 5	34, 118, 174, 201	0
3	AC	207/239 (86%)	0.64	20 (9%) 7 2	73, 133, 173, 201	0
3	CC	207/239 (86%)	0.17	6 (2%) 51 28	62, 113, 157, 198	0
4	AD	208/209 (99%)	-0.07	3 (1%) 75 56	50, 93, 140, 190	0
4	CD	208/209 (99%)	0.17	1 (0%) 91 81	63, 108, 157, 201	0
5	AE	151/162 (93%)	0.21	3 (1%) 65 44	51, 97, 147, 177	0
5	CE	151/162 (93%)	0.01	2 (1%) 77 59	52, 84, 132, 163	0
6	AF	101/101 (100%)	0.04	2 (1%) 65 44	63, 105, 149, 201	0
6	CF	101/101 (100%)	-0.20	0 100 100	51, 88, 141, 168	0
7	AG	155/156 (99%)	0.67	20 (12%) 3 1	65, 130, 177, 191	0
7	CG	155/156 (99%)	0.35	11 (7%) 16 6	60, 106, 163, 201	0
8	AH	138/138 (100%)	0.14	2 (1%) 75 56	53, 105, 151, 172	0
8	CH	138/138 (100%)	0.02	0 100 100	48, 83, 125, 156	0
9	AI	127/128 (99%)	1.46	33 (25%) 0 0	82, 148, 193, 201	0
9	CI	127/128 (99%)	0.80	15 (11%) 4 2	57, 123, 184, 200	0
10	AJ	99/105 (94%)	1.45	32 (32%) 0 0	62, 148, 189, 201	0
10	CJ	99/105 (94%)	1.17	20 (20%) 1 0	66, 133, 186, 201	0
11	AK	119/129 (92%)	0.45	7 (5%) 22 10	50, 109, 158, 185	0
11	CK	119/129 (92%)	0.05	5 (4%) 36 18	38, 81, 138, 181	0
12	AL	125/132 (94%)	0.13	5 (4%) 38 19	46, 86, 126, 188	0
12	CL	125/132 (94%)	0.26	5 (4%) 38 19	40, 90, 142, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	125/126 (99%)	1.34	30 (24%) 0 0	83, 152, 196, 201	0
13	CM	125/126 (99%)	0.65	16 (12%) 3 1	40, 112, 176, 201	0
14	AN	60/61 (98%)	1.20	10 (16%) 1 1	72, 143, 178, 201	0
14	CN	60/61 (98%)	0.18	1 (1%) 70 49	63, 102, 144, 167	0
15	AO	88/89 (98%)	0.22	3 (3%) 45 24	59, 101, 135, 182	0
15	CO	88/89 (98%)	-0.04	0 100 100	45, 82, 126, 162	0
16	AP	84/88 (95%)	0.13	3 (3%) 42 22	45, 83, 143, 196	0
16	CP	84/88 (95%)	0.57	7 (8%) 11 4	63, 105, 145, 168	0
17	AQ	100/105 (95%)	-0.02	1 (1%) 82 67	43, 89, 133, 153	0
17	CQ	100/105 (95%)	0.07	1 (1%) 82 67	49, 86, 121, 161	0
18	AR	70/88 (79%)	0.80	12 (17%) 1 0	74, 104, 159, 191	0
18	CR	70/88 (79%)	0.22	3 (4%) 35 17	61, 85, 129, 150	0
19	AS	79/93 (84%)	1.66	23 (29%) 0 0	102, 156, 194, 200	0
19	CS	79/93 (84%)	1.16	15 (18%) 1 0	69, 126, 187, 201	0
20	AT	99/106 (93%)	0.43	8 (8%) 12 5	54, 96, 158, 201	0
20	CT	99/106 (93%)	0.37	6 (6%) 21 9	49, 101, 152, 192	0
21	AU	25/27 (92%)	3.20	17 (68%) 0 0	92, 133, 184, 200	0
21	CU	25/27 (92%)	1.16	3 (12%) 4 2	77, 106, 145, 200	0
22	AV	75/77 (97%)	0.45	4 (5%) 26 12	82, 133, 176, 185	0
22	AW	75/77 (97%)	0.76	9 (12%) 4 2	91, 175, 200, 201	0
22	CV	75/77 (97%)	0.29	4 (5%) 26 12	61, 107, 152, 192	0
22	CW	75/77 (97%)	0.76	12 (16%) 1 1	64, 165, 200, 201	0
23	AX	8/8 (100%)	0.16	0 100 100	77, 106, 136, 153	0
23	CX	8/8 (100%)	0.43	1 (12%) 3 1	46, 77, 146, 167	0
24	AY	351/351 (100%)	1.50	94 (26%) 0 0	68, 137, 194, 201	0
24	CY	351/351 (100%)	1.61	115 (32%) 0 0	66, 142, 191, 201	0
25	B0	83/85 (97%)	0.53	7 (8%) 11 4	55, 90, 160, 185	0
25	D0	83/85 (97%)	-0.11	4 (4%) 30 14	17, 43, 119, 176	0
26	B1	94/98 (95%)	-0.07	0 100 100	32, 69, 121, 148	0
26	D1	94/98 (95%)	-0.31	1 (1%) 80 64	18, 50, 99, 171	0
27	B2	71/72 (98%)	0.26	4 (5%) 24 11	53, 93, 147, 185	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	D2	71/72 (98%)	-0.38	2 (2%) 53 30	23, 48, 119, 154	0
28	B3	60/60 (100%)	0.71	4 (6%) 17 7	53, 82, 125, 183	0
28	D3	60/60 (100%)	-0.39	1 (1%) 70 49	13, 40, 82, 179	0
29	B4	31/71 (43%)	0.71	4 (12%) 3 1	86, 154, 187, 200	0
29	D4	31/71 (43%)	-0.02	1 (3%) 47 25	77, 111, 160, 187	0
30	B5	59/60 (98%)	0.26	7 (11%) 4 2	30, 69, 181, 201	0
30	D5	59/60 (98%)	0.04	4 (6%) 17 7	10, 35, 157, 163	0
31	B6	45/54 (83%)	1.91	20 (44%) 0 0	71, 128, 178, 200	0
31	D6	45/54 (83%)	1.05	10 (22%) 0 0	40, 83, 144, 186	0
32	B7	49/49 (100%)	0.09	3 (6%) 21 9	25, 52, 117, 184	0
32	D7	49/49 (100%)	-0.19	3 (6%) 21 9	12, 26, 103, 200	0
33	B8	64/65 (98%)	0.38	3 (4%) 31 15	38, 78, 141, 201	0
33	D8	64/65 (98%)	-0.23	0 100 100	14, 45, 102, 180	0
34	B9	36/37 (97%)	1.36	6 (16%) 1 1	61, 94, 137, 149	0
34	D9	36/37 (97%)	0.17	0 100 100	29, 48, 106, 125	0
35	BA	2901/2915 (99%)	-0.06	81 (2%) 53 30	31, 70, 183, 201	0
35	DA	2901/2915 (99%)	-0.21	68 (2%) 60 39	10, 41, 178, 201	0
36	BB	119/122 (97%)	0.22	0 100 100	76, 144, 190, 200	0
36	DB	119/122 (97%)	-0.36	0 100 100	29, 59, 101, 171	0
37	BC	120/229 (52%)	2.98	77 (64%) 0 0	106, 177, 201, 201	0
37	DC	120/229 (52%)	2.64	60 (50%) 0 0	91, 170, 200, 201	0
38	BD	272/276 (98%)	-0.24	0 100 100	24, 63, 111, 158	0
38	DD	272/276 (98%)	-0.47	1 (0%) 92 84	15, 40, 84, 154	0
39	BE	205/206 (99%)	0.07	8 (3%) 39 20	29, 67, 136, 201	0
39	DE	205/206 (99%)	-0.24	5 (2%) 59 37	10, 41, 138, 200	0
40	BF	208/210 (99%)	-0.02	6 (2%) 51 28	33, 77, 161, 201	0
40	DF	208/210 (99%)	-0.30	8 (3%) 40 20	9, 44, 158, 196	0
41	BG	181/182 (99%)	0.70	29 (16%) 1 1	66, 137, 182, 201	0
41	DG	181/182 (99%)	-0.06	6 (3%) 46 24	34, 79, 147, 181	0
42	BH	160/180 (88%)	1.32	47 (29%) 0 0	70, 132, 180, 201	0
42	DH	160/180 (88%)	0.02	6 (3%) 40 20	29, 69, 139, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BI	146/148 (98%)	0.43	10 (6%) 17 7	53, 112, 152, 186	0
43	DI	146/148 (98%)	0.16	5 (3%) 45 24	36, 94, 142, 187	0
44	BJ	0/130	-	-	-	-
44	DJ	0/130	-	-	-	-
45	BK	141/147 (95%)	2.99	80 (56%) 0 0	122, 170, 201, 201	0
45	DK	141/147 (95%)	3.43	103 (73%) 0 0	117, 178, 201, 201	0
46	BN	139/140 (99%)	0.18	3 (2%) 62 41	43, 85, 141, 201	0
46	DN	139/140 (99%)	-0.45	1 (0%) 87 75	18, 42, 104, 201	0
47	BO	122/122 (100%)	-0.43	0 100 100	36, 62, 91, 112	0
47	DO	122/122 (100%)	-0.53	0 100 100	20, 43, 81, 130	0
48	BP	146/150 (97%)	0.60	17 (11%) 4 2	37, 100, 161, 198	0
48	DP	146/150 (97%)	0.05	2 (1%) 75 56	16, 58, 135, 188	0
49	BQ	141/141 (100%)	0.20	4 (2%) 53 30	46, 91, 142, 179	0
49	DQ	141/141 (100%)	-0.38	2 (1%) 75 56	21, 46, 101, 181	0
50	BR	117/118 (99%)	-0.09	0 100 100	36, 66, 109, 152	0
50	DR	117/118 (99%)	-0.42	0 100 100	14, 39, 82, 142	0
51	BS	99/112 (88%)	1.22	25 (25%) 0 0	64, 131, 182, 191	0
51	DS	99/112 (88%)	0.15	4 (4%) 38 19	31, 67, 128, 181	0
52	BT	138/146 (94%)	0.25	11 (7%) 12 5	40, 81, 169, 201	0
52	DT	138/146 (94%)	-0.16	4 (2%) 51 28	22, 61, 150, 201	0
53	BU	117/118 (99%)	-0.10	3 (2%) 56 33	33, 73, 134, 191	0
53	DU	117/118 (99%)	-0.51	0 100 100	11, 32, 85, 147	0
54	BV	101/101 (100%)	0.22	3 (2%) 50 27	33, 96, 143, 201	0
54	DV	101/101 (100%)	-0.41	3 (2%) 50 27	7, 45, 101, 201	0
55	BW	113/113 (100%)	-0.18	0 100 100	31, 62, 117, 193	0
55	DW	113/113 (100%)	-0.46	2 (1%) 68 47	9, 32, 68, 201	0
56	BX	93/96 (96%)	-0.04	1 (1%) 80 64	45, 79, 118, 158	0
56	DX	93/96 (96%)	-0.45	0 100 100	12, 43, 80, 121	0
57	BY	101/110 (91%)	0.91	19 (18%) 1 0	52, 102, 172, 201	0
57	DY	101/110 (91%)	0.20	4 (3%) 38 19	18, 73, 156, 191	0
58	BZ	185/206 (89%)	0.51	17 (9%) 9 3	64, 120, 168, 201	0
58	DZ	185/206 (89%)	-0.14	5 (2%) 54 31	36, 75, 154, 201	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
All	All	22130/23284 (95%)	0.21	1524 (6%) 16 7	7, 85, 180, 201	0

The worst 5 of 1524 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
45	BK	3	LYS	14.1
13	CM	123	ALA	13.6
1	AA	82	U	13.5
52	BT	138	ALA	13.2
13	CM	126	LYS	13.0

6.2 Non-standard residues in protein, DNA, RNA chains [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
22	PHA	AW	77	11/11	0.65	0.84	77,77,79,80	0
22	PHA	CW	77	11/11	0.83	0.57	77,77,79,80	0
22	PHA	CV	77	11/11	0.84	0.45	70,70,72,73	0
22	PHA	AV	77	11/11	0.89	0.43	70,70,72,73	0
22	8AN	AW	76	22/23	0.93	0.17	71,74,82,82	0
22	8AN	CW	76	22/23	0.94	0.22	71,74,82,82	0
22	8AN	AV	76	22/23	0.94	0.21	59,59,59,104	0
22	8AN	CV	76	22/23	0.95	0.25	59,59,59,104	0

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3335	1/1	-0.17	0.24	173,173,173,173	0
59	MG	DA	3153	1/1	0.12	0.45	94,94,94,94	0
59	MG	CA	1603	1/1	0.25	0.78	130,130,130,130	0
59	MG	DP	201	1/1	0.28	1.05	1,1,1,1	1
59	MG	CA	1601	1/1	0.32	0.28	59,59,59,59	0
59	MG	DA	3339	1/1	0.36	0.64	89,89,89,89	0
59	MG	CA	1638	1/1	0.39	0.50	77,77,77,77	0
59	MG	CA	1632	1/1	0.41	0.73	88,88,88,88	0
59	MG	CW	101	1/1	0.46	0.21	46,46,46,46	1
59	MG	AA	1758	1/1	0.48	0.22	99,99,99,99	0
59	MG	AA	1699	1/1	0.48	0.29	83,83,83,83	0
59	MG	BA	3331	1/1	0.49	0.29	47,47,47,47	0
59	MG	CA	1713	1/1	0.50	0.29	94,94,94,94	0
59	MG	DA	3214	1/1	0.52	0.39	117,117,117,117	0
59	MG	DA	3240	1/1	0.52	0.36	50,50,50,50	1
59	MG	CA	1675	1/1	0.53	0.42	64,64,64,64	0
59	MG	AA	1614	1/1	0.54	0.19	68,68,68,68	0
59	MG	CD	301	1/1	0.55	0.13	84,84,84,84	0
59	MG	BA	3163	1/1	0.55	0.36	67,67,67,67	0
59	MG	CA	1724	1/1	0.55	0.31	58,58,58,58	0
59	MG	DA	3204	1/1	0.55	0.27	59,59,59,59	0
59	MG	BA	3313	1/1	0.57	0.46	86,86,86,86	0
59	MG	BA	3039	1/1	0.57	0.47	111,111,111,111	0
59	MG	AA	1735	1/1	0.57	0.32	74,74,74,74	0
59	MG	BA	3131	1/1	0.58	0.60	67,67,67,67	0
59	MG	BA	3180	1/1	0.58	0.34	46,46,46,46	1
59	MG	CA	1730	1/1	0.59	0.25	72,72,72,72	0
59	MG	AA	1727	1/1	0.59	0.84	20,20,20,20	1
59	MG	BA	3357	1/1	0.59	0.46	68,68,68,68	1
59	MG	DA	3095	1/1	0.59	0.65	111,111,111,111	0
59	MG	BA	3143	1/1	0.59	0.32	90,90,90,90	0
59	MG	AA	1721	1/1	0.60	0.41	87,87,87,87	0
59	MG	DA	3210	1/1	0.60	0.60	95,95,95,95	0
59	MG	BA	3111	1/1	0.60	0.41	65,65,65,65	0
59	MG	CA	1734	1/1	0.61	0.33	72,72,72,72	1
59	MG	AA	1601	1/1	0.61	0.38	58,58,58,58	1
59	MG	DA	3338	1/1	0.61	0.34	58,58,58,58	0
59	MG	CL	202	1/1	0.61	0.60	80,80,80,80	0
59	MG	BA	3161	1/1	0.61	0.20	54,54,54,54	0
59	MG	DA	3197	1/1	0.62	0.40	94,94,94,94	0
59	MG	DA	3356	1/1	0.62	0.60	74,74,74,74	0
59	MG	CA	1612	1/1	0.62	0.18	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	AV	105	1/1	0.63	0.55	88,88,88,88	0
59	MG	AA	1630	1/1	0.63	0.42	72,72,72,72	0
59	MG	BA	3127	1/1	0.64	0.56	75,75,75,75	0
59	MG	CA	1648	1/1	0.64	0.42	72,72,72,72	0
59	MG	BA	3273	1/1	0.64	0.62	12,12,12,12	1
59	MG	BA	3354	1/1	0.65	0.80	91,91,91,91	0
59	MG	CA	1753	1/1	0.65	0.11	67,67,67,67	0
59	MG	AA	1728	1/1	0.66	0.34	69,69,69,69	0
59	MG	DA	3244	1/1	0.66	0.53	1,1,1,1	1
59	MG	AA	1731	1/1	0.66	0.30	68,68,68,68	0
59	MG	CA	1722	1/1	0.67	0.28	74,74,74,74	1
59	MG	BA	3208	1/1	0.67	0.56	100,100,100,100	0
59	MG	AA	1622	1/1	0.67	0.21	81,81,81,81	0
59	MG	AX	101	1/1	0.67	0.44	27,27,27,27	1
59	MG	BA	3001	1/1	0.68	0.20	62,62,62,62	0
59	MG	CA	1680	1/1	0.68	0.56	67,67,67,67	0
59	MG	CA	1699	1/1	0.68	0.56	84,84,84,84	0
59	MG	BA	3216	1/1	0.68	0.21	59,59,59,59	0
59	MG	AA	1611	1/1	0.69	0.53	74,74,74,74	0
59	MG	CA	1672	1/1	0.69	0.19	52,52,52,52	1
59	MG	BA	3305	1/1	0.69	0.34	54,54,54,54	0
59	MG	DA	3044	1/1	0.69	0.71	62,62,62,62	0
59	MG	BA	3140	1/1	0.69	0.32	77,77,77,77	0
59	MG	BA	3246	1/1	0.69	0.37	60,60,60,60	0
59	MG	CA	1743	1/1	0.69	0.30	61,61,61,61	0
59	MG	CA	1712	1/1	0.69	0.49	67,67,67,67	0
59	MG	AA	1723	1/1	0.70	0.25	54,54,54,54	1
59	MG	AA	1746	1/1	0.70	0.37	54,54,54,54	0
59	MG	DA	3130	1/1	0.70	0.36	45,45,45,45	0
59	MG	DA	3250	1/1	0.70	0.40	68,68,68,68	0
59	MG	CA	1715	1/1	0.70	0.41	50,50,50,50	1
59	MG	AA	1718	1/1	0.70	0.27	71,71,71,71	0
59	MG	BA	3296	1/1	0.70	0.23	83,83,83,83	0
59	MG	DB	201	1/1	0.70	0.42	27,27,27,27	1
59	MG	BA	3159	1/1	0.70	0.40	55,55,55,55	0
59	MG	AA	1748	1/1	0.71	0.69	81,81,81,81	0
59	MG	AA	1649	1/1	0.71	0.27	67,67,67,67	0
59	MG	CA	1660	1/1	0.71	0.26	69,69,69,69	0
59	MG	BA	3218	1/1	0.71	0.49	89,89,89,89	0
59	MG	BA	3099	1/1	0.71	0.26	43,43,43,43	0
59	MG	CA	1633	1/1	0.71	0.21	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	CA	1637	1/1	0.71	0.43	65,65,65,65	0
59	MG	CA	1678	1/1	0.72	0.19	101,101,101,101	0
59	MG	CA	1719	1/1	0.72	0.27	98,98,98,98	0
59	MG	BA	3277	1/1	0.72	0.60	68,68,68,68	0
59	MG	DA	3253	1/1	0.72	0.47	18,18,18,18	1
59	MG	BA	3149	1/1	0.72	0.79	75,75,75,75	0
59	MG	AA	1621	1/1	0.72	0.17	93,93,93,93	0
59	MG	CX	101	1/1	0.72	0.36	79,79,79,79	0
59	MG	BA	3309	1/1	0.72	0.18	51,51,51,51	0
59	MG	DA	3221	1/1	0.72	0.26	63,63,63,63	0
59	MG	BA	3096	1/1	0.73	0.34	59,59,59,59	0
59	MG	CA	1748	1/1	0.73	1.01	1,1,1,1	1
59	MG	DA	3211	1/1	0.73	0.36	69,69,69,69	0
59	MG	BA	3333	1/1	0.73	0.34	23,23,23,23	1
59	MG	BA	3286	1/1	0.73	0.31	71,71,71,71	0
59	MG	CA	1714	1/1	0.73	0.54	62,62,62,62	0
59	MG	CA	1682	1/1	0.73	0.23	60,60,60,60	0
59	MG	BA	3290	1/1	0.74	0.52	11,11,11,11	1
59	MG	AA	1732	1/1	0.74	0.49	72,72,72,72	0
59	MG	CA	1679	1/1	0.74	0.33	60,60,60,60	0
59	MG	DA	3258	1/1	0.74	0.42	58,58,58,58	0
59	MG	DA	3260	1/1	0.74	0.36	43,43,43,43	0
59	MG	AV	103	1/1	0.75	0.10	74,74,74,74	0
59	MG	CA	1614	1/1	0.75	0.12	44,44,44,44	0
59	MG	BB	204	1/1	0.75	0.27	22,22,22,22	1
59	MG	BG	201	1/1	0.75	0.53	1,1,1,1	1
59	MG	BA	3191	1/1	0.75	0.18	84,84,84,84	0
59	MG	AA	1707	1/1	0.75	0.15	58,58,58,58	0
59	MG	CA	1739	1/1	0.75	0.20	94,94,94,94	1
59	MG	BA	3010	1/1	0.76	0.62	63,63,63,63	0
59	MG	BA	3176	1/1	0.76	0.19	59,59,59,59	0
59	MG	AA	1680	1/1	0.76	0.19	91,91,91,91	0
59	MG	BA	3281	1/1	0.76	0.35	51,51,51,51	1
59	MG	AA	1648	1/1	0.76	0.12	69,69,69,69	0
59	MG	BA	3192	1/1	0.76	0.33	65,65,65,65	0
59	MG	AA	1706	1/1	0.76	0.33	69,69,69,69	0
59	MG	DA	3357	1/1	0.76	0.40	55,55,55,55	0
59	MG	B5	102	1/1	0.76	0.49	78,78,78,78	0
59	MG	AS	101	1/1	0.76	0.08	115,115,115,115	0
59	MG	DA	3226	1/1	0.77	0.63	64,64,64,64	0
59	MG	BA	3280	1/1	0.77	0.15	56,56,56,56	0
59	MG	CA	1658	1/1	0.77	0.22	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BA	3151	1/1	0.77	0.16	52,52,52,52	0
59	MG	DA	3141	1/1	0.77	0.32	56,56,56,56	0
59	MG	BA	3031	1/1	0.77	0.29	37,37,37,37	0
59	MG	BA	3241	1/1	0.77	0.20	1,1,1,1	1
59	MG	DA	3308	1/1	0.77	0.18	41,41,41,41	0
59	MG	DA	3335	1/1	0.77	0.35	88,88,88,88	0
59	MG	AA	1752	1/1	0.77	0.73	57,57,57,57	1
59	MG	BA	3209	1/1	0.77	0.67	66,66,66,66	0
59	MG	CV	106	1/1	0.77	0.18	96,96,96,96	0
59	MG	BA	3213	1/1	0.77	0.20	80,80,80,80	1
59	MG	DA	3215	1/1	0.77	0.48	129,129,129,129	0
59	MG	BA	3310	1/1	0.77	0.27	68,68,68,68	0
59	MG	BA	3351	1/1	0.78	0.40	82,82,82,82	0
59	MG	BA	3029	1/1	0.78	0.50	66,66,66,66	0
59	MG	BA	3212	1/1	0.78	0.50	74,74,74,74	0
59	MG	BA	3311	1/1	0.78	0.25	75,75,75,75	0
59	MG	DA	3282	1/1	0.78	0.16	41,41,41,41	0
59	MG	AA	1703	1/1	0.78	0.35	71,71,71,71	0
59	MG	BA	3319	1/1	0.78	0.59	77,77,77,77	0
59	MG	BA	3322	1/1	0.78	0.30	52,52,52,52	0
59	MG	BA	3002	1/1	0.78	0.39	80,80,80,80	0
59	MG	DA	3355	1/1	0.78	0.39	68,68,68,68	0
59	MG	BA	3303	1/1	0.78	0.40	57,57,57,57	0
59	MG	AA	1659	1/1	0.78	0.18	78,78,78,78	0
59	MG	BA	3344	1/1	0.78	0.55	63,63,63,63	0
59	MG	DA	3138	1/1	0.78	0.29	58,58,58,58	0
59	MG	CA	1710	1/1	0.79	0.11	120,120,120,120	0
59	MG	BA	3254	1/1	0.79	0.29	62,62,62,62	0
59	MG	BA	3261	1/1	0.79	0.27	60,60,60,60	0
59	MG	BA	3288	1/1	0.79	0.17	52,52,52,52	0
59	MG	BA	3312	1/1	0.79	0.12	93,93,93,93	0
59	MG	DA	3320	1/1	0.79	0.28	56,56,56,56	0
59	MG	BA	3353	1/1	0.79	0.27	61,61,61,61	0
59	MG	BA	3268	1/1	0.79	0.31	66,66,66,66	0
59	MG	DA	3219	1/1	0.79	0.17	32,32,32,32	0
59	MG	DA	3349	1/1	0.79	0.32	18,18,18,18	1
59	MG	AA	1664	1/1	0.79	0.28	65,65,65,65	0
59	MG	BA	3007	1/1	0.79	0.29	39,39,39,39	0
59	MG	AA	1691	1/1	0.79	0.15	69,69,69,69	0
59	MG	CA	1700	1/1	0.79	0.33	58,58,58,58	0
59	MG	CA	1702	1/1	0.79	0.27	57,57,57,57	0
59	MG	AA	1702	1/1	0.80	0.21	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1681	1/1	0.80	0.19	60,60,60,60	0
59	MG	AA	1658	1/1	0.80	0.28	66,66,66,66	0
59	MG	BA	3352	1/1	0.80	0.43	62,62,62,62	0
59	MG	AA	1647	1/1	0.80	0.16	66,66,66,66	0
59	MG	BA	3152	1/1	0.80	0.21	104,104,104,104	0
59	MG	BA	3217	1/1	0.80	0.46	54,54,54,54	0
59	MG	DA	3237	1/1	0.80	0.36	39,39,39,39	0
59	MG	CA	1645	1/1	0.80	0.17	45,45,45,45	1
59	MG	BA	3298	1/1	0.80	0.26	68,68,68,68	0
59	MG	BA	3276	1/1	0.80	0.41	60,60,60,60	0
59	MG	BA	3082	1/1	0.80	0.24	60,60,60,60	0
59	MG	DG	201	1/1	0.80	0.37	1,1,1,1	1
59	MG	CA	1663	1/1	0.80	0.21	57,57,57,57	0
59	MG	DA	3256	1/1	0.81	0.20	49,49,49,49	0
59	MG	AA	1682	1/1	0.81	0.70	77,77,77,77	0
59	MG	CA	1613	1/1	0.81	0.32	58,58,58,58	0
59	MG	DA	3274	1/1	0.81	0.36	69,69,69,69	0
59	MG	BA	3198	1/1	0.81	0.27	38,38,38,38	0
59	MG	AA	1704	1/1	0.81	0.29	56,56,56,56	0
59	MG	BA	3117	1/1	0.81	0.23	30,30,30,30	0
59	MG	AA	1690	1/1	0.81	0.10	64,64,64,64	0
59	MG	AA	1645	1/1	0.81	0.35	88,88,88,88	0
59	MG	BA	3167	1/1	0.81	0.31	70,70,70,70	0
59	MG	BA	3356	1/1	0.81	0.23	68,68,68,68	0
59	MG	AA	1607	1/1	0.81	0.32	57,57,57,57	0
59	MG	BB	203	1/1	0.81	0.15	69,69,69,69	0
59	MG	BA	3095	1/1	0.81	0.31	73,73,73,73	0
59	MG	BA	3220	1/1	0.81	0.20	79,79,79,79	0
59	MG	BA	3226	1/1	0.81	0.57	58,58,58,58	0
59	MG	AA	1604	1/1	0.81	0.15	57,57,57,57	0
59	MG	AA	1759	1/1	0.82	0.09	139,139,139,139	0
59	MG	CA	1720	1/1	0.82	0.36	93,93,93,93	1
59	MG	BA	3260	1/1	0.82	0.33	53,53,53,53	0
59	MG	BA	3336	1/1	0.82	0.34	40,40,40,40	0
59	MG	BA	3121	1/1	0.82	0.71	92,92,92,92	0
59	MG	DA	3159	1/1	0.82	0.33	68,68,68,68	0
59	MG	AA	1660	1/1	0.82	0.10	69,69,69,69	0
59	MG	DA	3303	1/1	0.82	0.27	25,25,25,25	0
59	MG	BA	3080	1/1	0.82	0.30	42,42,42,42	0
59	MG	DA	3312	1/1	0.82	0.14	65,65,65,65	0
59	MG	AA	1740	1/1	0.82	0.56	75,75,75,75	0
59	MG	AV	104	1/1	0.82	0.08	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3337	1/1	0.82	0.42	102,102,102,102	0
59	MG	AA	1724	1/1	0.82	0.49	1,1,1,1	1
59	MG	AW	101	1/1	0.82	0.14	58,58,58,58	1
59	MG	AW	103	1/1	0.82	0.15	84,84,84,84	0
59	MG	DA	3350	1/1	0.82	0.37	37,37,37,37	0
59	MG	BA	3203	1/1	0.82	0.29	43,43,43,43	0
59	MG	BF	302	1/1	0.82	0.30	63,63,63,63	0
59	MG	DA	3228	1/1	0.82	0.34	41,41,41,41	0
59	MG	BA	3204	1/1	0.82	0.43	35,35,35,35	1
59	MG	DA	3006	1/1	0.82	0.67	52,52,52,52	0
59	MG	CA	1716	1/1	0.82	0.31	50,50,50,50	0
59	MG	DX	101	1/1	0.82	0.62	58,58,58,58	0
59	MG	BA	3145	1/1	0.83	0.12	60,60,60,60	0
59	MG	BA	3194	1/1	0.83	0.43	70,70,70,70	0
59	MG	CA	1640	1/1	0.83	0.29	37,37,37,37	0
59	MG	BA	3195	1/1	0.83	0.12	62,62,62,62	0
59	MG	DA	3276	1/1	0.83	0.49	57,57,57,57	0
59	MG	BA	3250	1/1	0.83	0.22	50,50,50,50	1
59	MG	DA	3298	1/1	0.83	0.30	78,78,78,78	0
59	MG	AA	1667	1/1	0.83	0.29	85,85,85,85	0
59	MG	AA	1694	1/1	0.83	0.35	54,54,54,54	0
59	MG	AA	1697	1/1	0.83	0.21	60,60,60,60	0
59	MG	BA	3262	1/1	0.83	0.08	49,49,49,49	0
59	MG	CA	1728	1/1	0.83	0.29	53,53,53,53	0
59	MG	AA	1677	1/1	0.83	0.57	68,68,68,68	0
59	MG	AA	1749	1/1	0.83	0.25	48,48,48,48	0
59	MG	AA	1709	1/1	0.83	0.21	50,50,50,50	0
59	MG	AA	1717	1/1	0.83	0.58	110,110,110,110	0
59	MG	BA	3172	1/1	0.83	0.21	58,58,58,58	0
59	MG	CA	1689	1/1	0.83	0.13	57,57,57,57	0
59	MG	CA	1690	1/1	0.83	0.28	54,54,54,54	0
59	MG	CA	1695	1/1	0.83	0.37	46,46,46,46	1
59	MG	BA	3139	1/1	0.83	0.70	84,84,84,84	0
59	MG	AA	1640	1/1	0.83	0.27	47,47,47,47	0
59	MG	AA	1760	1/1	0.83	0.21	27,27,27,27	1
59	MG	BA	3289	1/1	0.83	0.22	59,59,59,59	0
59	MG	BA	3348	1/1	0.84	0.50	48,48,48,48	1
59	MG	AA	1687	1/1	0.84	0.28	51,51,51,51	0
59	MG	CA	1708	1/1	0.84	0.35	104,104,104,104	0
59	MG	AA	1674	1/1	0.84	0.17	69,69,69,69	0
59	MG	BA	3166	1/1	0.84	0.14	42,42,42,42	0
59	MG	CA	1641	1/1	0.84	0.48	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3285	1/1	0.84	0.32	48,48,48,48	0
59	MG	AA	1606	1/1	0.84	0.39	65,65,65,65	0
59	MG	BA	3132	1/1	0.84	0.19	80,80,80,80	0
59	MG	BA	3065	1/1	0.84	0.35	67,67,67,67	0
59	MG	CA	1659	1/1	0.84	0.29	69,69,69,69	0
59	MG	AA	1734	1/1	0.84	0.31	51,51,51,51	0
59	MG	AY	401	1/1	0.84	0.27	74,74,74,74	0
59	MG	CA	1670	1/1	0.84	0.35	77,77,77,77	0
59	MG	AA	1633	1/1	0.84	0.24	73,73,73,73	0
59	MG	BA	3320	1/1	0.84	0.28	57,57,57,57	0
59	MG	BA	3223	1/1	0.84	0.34	38,38,38,38	0
59	MG	AA	1652	1/1	0.84	0.38	50,50,50,50	0
59	MG	CA	1607	1/1	0.84	0.28	32,32,32,32	0
59	MG	BA	3227	1/1	0.84	0.31	56,56,56,56	0
59	MG	AA	1741	1/1	0.84	0.33	44,44,44,44	0
59	MG	AA	1742	1/1	0.84	0.85	72,72,72,72	0
59	MG	CA	1617	1/1	0.84	0.31	61,61,61,61	0
59	MG	DH	201	1/1	0.84	0.19	44,44,44,44	0
59	MG	CA	1696	1/1	0.84	0.53	17,17,17,17	1
59	MG	AA	1639	1/1	0.84	0.36	73,73,73,73	0
59	MG	DA	3053	1/1	0.85	0.31	50,50,50,50	0
59	MG	DA	3078	1/1	0.85	0.26	33,33,33,33	0
59	MG	BA	3036	1/1	0.85	0.13	44,44,44,44	0
59	MG	AA	1617	1/1	0.85	0.09	44,44,44,44	0
59	MG	BA	3146	1/1	0.85	0.20	58,58,58,58	0
59	MG	BA	3205	1/1	0.85	0.22	75,75,75,75	0
59	MG	DA	3144	1/1	0.85	0.20	56,56,56,56	0
59	MG	AA	1711	1/1	0.85	0.19	63,63,63,63	0
59	MG	BA	3232	1/1	0.85	0.49	59,59,59,59	0
59	MG	CA	1688	1/1	0.85	0.12	56,56,56,56	0
59	MG	BA	3240	1/1	0.85	0.15	73,73,73,73	0
59	MG	CA	1639	1/1	0.85	0.24	51,51,51,51	0
59	MG	CA	1738	1/1	0.85	0.26	15,15,15,15	1
59	MG	AA	1712	1/1	0.85	0.22	47,47,47,47	0
59	MG	AA	1716	1/1	0.85	0.20	66,66,66,66	1
59	MG	AA	1651	1/1	0.85	0.33	49,49,49,49	0
59	MG	CA	1646	1/1	0.85	0.18	37,37,37,37	0
59	MG	BA	3214	1/1	0.85	0.19	55,55,55,55	0
59	MG	CA	1707	1/1	0.85	0.18	65,65,65,65	0
59	MG	BT	201	1/1	0.85	0.22	49,49,49,49	0
59	MG	BA	3293	1/1	0.85	0.63	83,83,83,83	0
59	MG	AA	1730	1/1	0.85	1.01	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3297	1/1	0.85	0.34	75,75,75,75	1
59	MG	AA	1646	1/1	0.85	0.39	48,48,48,48	0
59	MG	DA	3045	1/1	0.85	0.45	34,34,34,34	0
59	MG	AA	1737	1/1	0.86	0.22	42,42,42,42	0
59	MG	DA	3107	1/1	0.86	0.27	31,31,31,31	0
59	MG	DA	3123	1/1	0.86	0.56	76,76,76,76	0
59	MG	AA	1637	1/1	0.86	0.21	63,63,63,63	0
59	MG	CA	1732	1/1	0.86	0.33	70,70,70,70	0
59	MG	DA	3277	1/1	0.86	0.31	37,37,37,37	0
59	MG	DA	3281	1/1	0.86	0.34	59,59,59,59	0
59	MG	AA	1714	1/1	0.86	0.21	21,21,21,21	1
59	MG	CA	1661	1/1	0.86	0.52	83,83,83,83	0
59	MG	DA	3290	1/1	0.86	0.40	1,1,1,1	1
59	MG	CA	1704	1/1	0.86	0.45	75,75,75,75	0
59	MG	AA	1669	1/1	0.86	0.29	34,34,34,34	0
59	MG	DA	3161	1/1	0.86	0.30	44,44,44,44	0
59	MG	CA	1621	1/1	0.86	0.14	77,77,77,77	0
59	MG	DA	3317	1/1	0.86	0.32	63,63,63,63	0
59	MG	DA	3318	1/1	0.86	0.36	49,49,49,49	0
59	MG	AA	1745	1/1	0.86	0.33	62,62,62,62	0
59	MG	AA	1653	1/1	0.86	0.33	44,44,44,44	0
59	MG	BA	3329	1/1	0.86	0.51	58,58,58,58	0
59	MG	CS	101	1/1	0.86	0.19	52,52,52,52	1
59	MG	BA	3173	1/1	0.86	0.38	51,51,51,51	0
59	MG	AV	101	1/1	0.86	0.18	72,72,72,72	0
59	MG	CW	102	1/1	0.86	0.21	51,51,51,51	1
59	MG	BA	3119	1/1	0.86	0.61	39,39,39,39	0
59	MG	AA	1644	1/1	0.86	0.15	54,54,54,54	0
59	MG	DA	3031	1/1	0.86	0.28	52,52,52,52	0
59	MG	BA	3342	1/1	0.86	0.38	64,64,64,64	0
59	MG	DA	3243	1/1	0.86	0.30	54,54,54,54	1
59	MG	BA	3069	1/1	0.86	0.28	32,32,32,32	0
59	MG	CA	1723	1/1	0.86	0.31	45,45,45,45	1
59	MG	BA	3283	1/1	0.86	0.17	49,49,49,49	0
59	MG	BA	3323	1/1	0.87	0.30	49,49,49,49	1
59	MG	BA	3355	1/1	0.87	0.18	9,9,9,9	1
59	MG	DA	3039	1/1	0.87	0.36	97,97,97,97	0
59	MG	DA	3212	1/1	0.87	0.21	59,59,59,59	0
59	MG	BA	3243	1/1	0.87	0.23	10,10,10,10	1
59	MG	BA	3003	1/1	0.87	0.24	56,56,56,56	0
59	MG	BB	202	1/1	0.87	0.21	51,51,51,51	0
59	MG	DA	3064	1/1	0.87	0.28	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3065	1/1	0.87	0.59	65,65,65,65	0
59	MG	BA	3249	1/1	0.87	0.47	103,103,103,103	0
59	MG	DA	3323	1/1	0.87	0.47	45,45,45,45	0
59	MG	DA	3331	1/1	0.87	0.14	30,30,30,30	0
59	MG	DA	3080	1/1	0.87	0.34	32,32,32,32	0
59	MG	BA	3182	1/1	0.87	0.23	70,70,70,70	0
59	MG	BA	3077	1/1	0.87	0.25	74,74,74,74	0
59	MG	CA	1749	1/1	0.87	0.26	65,65,65,65	0
59	MG	AA	1739	1/1	0.87	0.14	54,54,54,54	0
59	MG	AA	1733	1/1	0.87	0.41	79,79,79,79	0
59	MG	BA	3346	1/1	0.87	0.21	69,69,69,69	0
59	MG	AA	1747	1/1	0.87	0.36	81,81,81,81	0
59	MG	BA	3179	1/1	0.87	0.49	43,43,43,43	0
59	MG	DA	3273	1/1	0.87	0.26	1,1,1,1	1
59	MG	DB	204	1/1	0.87	0.27	1,1,1,1	1
59	MG	DA	3158	1/1	0.87	0.32	37,37,37,37	0
59	MG	CA	1650	1/1	0.87	0.25	46,46,46,46	0
59	MG	BA	3199	1/1	0.87	0.32	60,60,60,60	0
59	MG	BA	3202	1/1	0.87	0.17	42,42,42,42	0
59	MG	DA	3193	1/1	0.88	0.23	61,61,61,61	0
59	MG	CA	1622	1/1	0.88	0.16	53,53,53,53	0
59	MG	BA	3245	1/1	0.88	0.25	43,43,43,43	0
59	MG	AA	1692	1/1	0.88	0.35	50,50,50,50	0
59	MG	BA	3004	1/1	0.88	0.36	118,118,118,118	1
59	MG	AA	1642	1/1	0.88	0.31	55,55,55,55	0
59	MG	DA	3311	1/1	0.88	0.18	75,75,75,75	0
59	MG	BA	3252	1/1	0.88	0.20	32,32,32,32	1
59	MG	BA	3292	1/1	0.88	0.35	55,55,55,55	0
59	MG	BA	3078	1/1	0.88	0.30	58,58,58,58	0
59	MG	DA	3319	1/1	0.88	0.39	71,71,71,71	0
59	MG	CA	1642	1/1	0.88	0.29	67,67,67,67	1
59	MG	DA	3322	1/1	0.88	0.18	38,38,38,38	0
59	MG	CA	1691	1/1	0.88	0.35	33,33,33,33	0
59	MG	BA	3219	1/1	0.88	0.33	46,46,46,46	0
59	MG	DA	3229	1/1	0.88	0.22	56,56,56,56	0
59	MG	AA	1657	1/1	0.88	0.45	46,46,46,46	0
59	MG	AA	1679	1/1	0.88	0.24	82,82,82,82	0
59	MG	BA	3154	1/1	0.88	0.23	44,44,44,44	0
59	MG	DA	3342	1/1	0.88	0.51	61,61,61,61	0
59	MG	CA	1742	1/1	0.88	0.23	32,32,32,32	1
59	MG	CA	1654	1/1	0.88	0.42	48,48,48,48	0
59	MG	AA	1719	1/1	0.88	0.21	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1706	1/1	0.88	0.20	53,53,53,53	0
59	MG	BA	3183	1/1	0.88	0.25	59,59,59,59	1
59	MG	BA	3185	1/1	0.88	0.32	46,46,46,46	0
59	MG	BA	3278	1/1	0.88	0.28	59,59,59,59	0
59	MG	AV	106	1/1	0.88	0.09	77,77,77,77	0
59	MG	CV	105	1/1	0.88	0.31	66,66,66,66	0
59	MG	AV	107	1/1	0.88	0.22	65,65,65,65	1
59	MG	DA	3170	1/1	0.88	0.20	25,25,25,25	0
59	MG	AA	1722	1/1	0.89	0.18	46,46,46,46	1
59	MG	CA	1674	1/1	0.89	0.11	35,35,35,35	1
59	MG	DA	3270	1/1	0.89	0.22	30,30,30,30	0
59	MG	CA	1727	1/1	0.89	0.27	44,44,44,44	0
59	MG	DA	3119	1/1	0.89	0.59	40,40,40,40	0
59	MG	AA	1616	1/1	0.89	0.21	36,36,36,36	1
59	MG	BA	3196	1/1	0.89	0.31	52,52,52,52	0
59	MG	DA	3279	1/1	0.89	0.23	16,16,16,16	0
59	MG	CA	1731	1/1	0.89	0.21	69,69,69,69	0
59	MG	BA	3255	1/1	0.89	0.35	73,73,73,73	0
59	MG	BA	3259	1/1	0.89	0.17	80,80,80,80	0
59	MG	CA	1619	1/1	0.89	0.27	41,41,41,41	0
59	MG	DA	3292	1/1	0.89	0.24	40,40,40,40	0
59	MG	BA	3338	1/1	0.89	0.43	54,54,54,54	0
59	MG	AA	1701	1/1	0.89	0.19	61,61,61,61	0
59	MG	DA	3304	1/1	0.89	0.26	18,18,18,18	1
59	MG	BA	3048	1/1	0.89	0.24	32,32,32,32	0
59	MG	DA	3165	1/1	0.89	0.33	45,45,45,45	0
59	MG	CA	1747	1/1	0.89	0.19	21,21,21,21	1
59	MG	DA	3178	1/1	0.89	0.17	51,51,51,51	0
59	MG	DA	3184	1/1	0.89	0.21	46,46,46,46	0
59	MG	BA	3200	1/1	0.89	0.31	36,36,36,36	0
59	MG	BA	3302	1/1	0.89	0.20	20,20,20,20	0
59	MG	DA	3198	1/1	0.89	0.35	52,52,52,52	0
59	MG	AA	1726	1/1	0.89	0.19	2,2,2,2	1
59	MG	CA	1698	1/1	0.89	0.40	20,20,20,20	1
59	MG	DA	3333	1/1	0.89	0.15	55,55,55,55	0
59	MG	BA	3304	1/1	0.89	0.77	64,64,64,64	0
59	MG	DA	3336	1/1	0.89	0.37	48,48,48,48	0
59	MG	BA	3113	1/1	0.89	0.32	33,33,33,33	0
59	MG	BA	3274	1/1	0.89	0.10	57,57,57,57	0
59	MG	BA	3067	1/1	0.89	0.12	30,30,30,30	0
59	MG	AA	1666	1/1	0.89	0.81	70,70,70,70	0
59	MG	AA	1671	1/1	0.89	0.31	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	BB	201	1/1	0.89	0.63	38,38,38,38	1
59	MG	AA	1736	1/1	0.89	0.14	43,43,43,43	1
59	MG	BA	3318	1/1	0.89	0.24	42,42,42,42	0
59	MG	BA	3129	1/1	0.89	0.44	59,59,59,59	0
59	MG	BA	3160	1/1	0.89	0.12	36,36,36,36	0
59	MG	AA	1729	1/1	0.89	0.36	88,88,88,88	0
59	MG	BA	3287	1/1	0.89	0.14	65,65,65,65	0
59	MG	BA	3324	1/1	0.89	0.43	19,19,19,19	1
59	MG	CA	1667	1/1	0.89	0.13	57,57,57,57	0
59	MG	BA	3327	1/1	0.89	0.25	52,52,52,52	0
59	MG	DA	3289	1/1	0.90	0.12	17,17,17,17	0
59	MG	CA	1611	1/1	0.90	0.35	51,51,51,51	0
59	MG	BA	3122	1/1	0.90	0.63	62,62,62,62	0
59	MG	BA	3124	1/1	0.90	0.50	65,65,65,65	0
59	MG	AA	1676	1/1	0.90	0.11	21,21,21,21	1
59	MG	AA	1650	1/1	0.90	0.22	40,40,40,40	0
59	MG	BA	3236	1/1	0.90	0.24	54,54,54,54	0
59	MG	DA	3309	1/1	0.90	0.11	61,61,61,61	0
59	MG	CA	1677	1/1	0.90	0.12	46,46,46,46	1
59	MG	BA	3349	1/1	0.90	0.36	45,45,45,45	0
59	MG	DA	3313	1/1	0.90	0.27	74,74,74,74	0
59	MG	AA	1751	1/1	0.90	0.23	11,11,11,11	1
59	MG	CA	1626	1/1	0.90	0.18	75,75,75,75	0
59	MG	BA	3033	1/1	0.90	0.31	35,35,35,35	0
59	MG	BA	3093	1/1	0.90	0.29	38,38,38,38	0
59	MG	AA	1743	1/1	0.90	0.09	49,49,49,49	1
59	MG	AA	1757	1/1	0.90	0.14	49,49,49,49	0
59	MG	DA	3325	1/1	0.90	0.26	48,48,48,48	0
59	MG	DA	3242	1/1	0.90	0.16	11,11,11,11	1
59	MG	BA	3247	1/1	0.90	0.14	66,66,66,66	0
59	MG	BA	3210	1/1	0.90	0.49	70,70,70,70	0
59	MG	BA	3097	1/1	0.90	0.12	45,45,45,45	0
59	MG	BA	3044	1/1	0.90	0.41	49,49,49,49	0
59	MG	AA	1641	1/1	0.90	0.16	38,38,38,38	0
59	MG	BA	3049	1/1	0.90	0.51	46,46,46,46	0
59	MG	DA	3156	1/1	0.90	0.24	31,31,31,31	0
59	MG	DA	3262	1/1	0.90	0.10	32,32,32,32	0
59	MG	CA	1701	1/1	0.90	0.53	55,55,55,55	1
59	MG	BF	301	1/1	0.90	0.14	33,33,33,33	0
59	MG	BA	3114	1/1	0.90	0.28	37,37,37,37	0
59	MG	BA	3332	1/1	0.90	0.20	54,54,54,54	0
59	MG	AA	1662	1/1	0.90	0.33	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3334	1/1	0.90	0.12	55,55,55,55	0
59	MG	DA	3280	1/1	0.90	0.37	54,54,54,54	0
59	MG	AA	1710	1/1	0.90	0.29	61,61,61,61	0
59	MG	AW	102	1/1	0.90	0.15	25,25,25,25	1
59	MG	CA	1662	1/1	0.90	0.12	49,49,49,49	0
59	MG	DA	3132	1/1	0.91	0.15	62,62,62,62	0
59	MG	CA	1736	1/1	0.91	0.41	55,55,55,55	0
59	MG	BA	3325	1/1	0.91	0.08	62,62,62,62	0
59	MG	BA	3326	1/1	0.91	0.34	42,42,42,42	0
59	MG	DA	3146	1/1	0.91	0.11	27,27,27,27	0
59	MG	DA	3152	1/1	0.91	0.23	38,38,38,38	0
59	MG	CA	1692	1/1	0.91	0.66	73,73,73,73	0
59	MG	BA	3225	1/1	0.91	0.50	73,73,73,73	0
59	MG	BA	3181	1/1	0.91	0.26	60,60,60,60	0
59	MG	BA	3045	1/1	0.91	0.54	44,44,44,44	0
59	MG	BA	3028	1/1	0.91	0.29	40,40,40,40	0
59	MG	BA	3142	1/1	0.91	0.28	97,97,97,97	0
59	MG	BA	3239	1/1	0.91	0.30	4,4,4,4	1
59	MG	CA	1652	1/1	0.91	0.47	71,71,71,71	0
59	MG	DA	3179	1/1	0.91	0.20	49,49,49,49	0
59	MG	CN	101	1/1	0.91	0.09	69,69,69,69	0
59	MG	DA	3187	1/1	0.91	0.56	44,44,44,44	0
59	MG	DA	3192	1/1	0.91	0.12	35,35,35,35	0
59	MG	BA	3162	1/1	0.91	0.34	96,96,96,96	0
59	MG	AL	201	1/1	0.91	0.09	15,15,15,15	1
59	MG	BA	3308	1/1	0.91	0.12	39,39,39,39	0
59	MG	BA	3341	1/1	0.91	0.34	61,61,61,61	0
59	MG	DA	3205	1/1	0.91	0.31	46,46,46,46	0
59	MG	BA	3242	1/1	0.91	0.14	106,106,106,106	0
59	MG	BA	3144	1/1	0.91	0.16	46,46,46,46	0
59	MG	AA	1613	1/1	0.91	0.15	60,60,60,60	0
59	MG	CA	1616	1/1	0.91	0.50	65,65,65,65	0
59	MG	BA	3215	1/1	0.91	0.10	26,26,26,26	0
59	MG	CA	1671	1/1	0.91	0.16	44,44,44,44	0
59	MG	DA	3332	1/1	0.91	0.24	26,26,26,26	1
59	MG	BA	3169	1/1	0.91	0.22	45,45,45,45	0
59	MG	DA	3052	1/1	0.91	0.26	25,25,25,25	0
59	MG	CA	1673	1/1	0.91	0.09	15,15,15,15	0
59	MG	BA	3317	1/1	0.91	0.26	1,1,1,1	1
59	MG	DA	3236	1/1	0.91	0.31	43,43,43,43	0
59	MG	BA	3032	1/1	0.91	0.14	49,49,49,49	0
59	MG	DA	3340	1/1	0.91	0.15	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3071	1/1	0.91	0.20	18,18,18,18	0
59	MG	AA	1661	1/1	0.91	0.13	52,52,52,52	0
59	MG	CA	1628	1/1	0.91	0.25	49,49,49,49	0
59	MG	AA	1623	1/1	0.91	0.23	60,60,60,60	0
59	MG	DA	3245	1/1	0.91	0.18	38,38,38,38	0
59	MG	BA	3020	1/1	0.91	0.42	37,37,37,37	0
59	MG	DA	3359	1/1	0.91	0.17	1,1,1,1	1
59	MG	DA	3111	1/1	0.91	0.32	33,33,33,33	0
59	MG	CA	1636	1/1	0.91	0.31	52,52,52,52	0
59	MG	DA	3121	1/1	0.91	0.38	14,14,14,14	1
59	MG	BA	3023	1/1	0.91	0.43	52,52,52,52	0
59	MG	BA	3258	1/1	0.91	0.35	48,48,48,48	0
59	MG	DA	3267	1/1	0.91	0.21	13,13,13,13	0
59	MG	BA	3221	1/1	0.92	0.42	53,53,53,53	0
59	MG	BA	3120	1/1	0.92	0.20	25,25,25,25	0
59	MG	DA	3155	1/1	0.92	0.21	50,50,50,50	0
59	MG	AA	1720	1/1	0.92	0.56	55,55,55,55	0
59	MG	DA	3278	1/1	0.92	0.41	40,40,40,40	0
59	MG	CL	201	1/1	0.92	0.12	8,8,8,8	1
59	MG	CA	1657	1/1	0.92	0.17	52,52,52,52	0
59	MG	BA	3271	1/1	0.92	0.45	55,55,55,55	0
59	MG	BA	3006	1/1	0.92	0.50	73,73,73,73	0
59	MG	BA	3123	1/1	0.92	0.58	72,72,72,72	0
59	MG	DA	3288	1/1	0.92	0.23	61,61,61,61	0
59	MG	DA	3175	1/1	0.92	0.38	59,59,59,59	0
59	MG	CA	1615	1/1	0.92	0.34	26,26,26,26	0
59	MG	AA	1665	1/1	0.92	0.25	61,61,61,61	0
59	MG	BA	3091	1/1	0.92	0.18	58,58,58,58	0
59	MG	DA	3299	1/1	0.92	0.36	49,49,49,49	0
59	MG	CW	104	1/1	0.92	0.14	37,37,37,37	1
59	MG	BA	3092	1/1	0.92	0.28	40,40,40,40	0
59	MG	DA	3305	1/1	0.92	0.17	39,39,39,39	0
59	MG	AA	1713	1/1	0.92	0.22	49,49,49,49	1
59	MG	DA	3194	1/1	0.92	0.27	32,32,32,32	0
59	MG	AA	1654	1/1	0.92	0.13	78,78,78,78	0
59	MG	CA	1624	1/1	0.92	0.36	52,52,52,52	0
59	MG	BA	3170	1/1	0.92	0.28	38,38,38,38	0
59	MG	BA	3137	1/1	0.92	0.15	38,38,38,38	0
59	MG	CA	1631	1/1	0.92	0.12	24,24,24,24	0
59	MG	BA	3046	1/1	0.92	0.23	22,22,22,22	0
59	MG	DA	3058	1/1	0.92	0.35	23,23,23,23	0
59	MG	DA	3321	1/1	0.92	0.45	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1689	1/1	0.92	0.20	37,37,37,37	0
59	MG	CA	1725	1/1	0.92	0.22	72,72,72,72	0
59	MG	AA	1753	1/1	0.92	0.36	16,16,16,16	1
59	MG	DA	3327	1/1	0.92	0.24	38,38,38,38	0
59	MG	DA	3220	1/1	0.92	0.56	51,51,51,51	0
59	MG	BA	3107	1/1	0.92	0.22	25,25,25,25	1
59	MG	BA	3110	1/1	0.92	0.16	51,51,51,51	0
59	MG	CA	1685	1/1	0.92	0.40	53,53,53,53	0
59	MG	DA	3099	1/1	0.92	0.28	12,12,12,12	0
59	MG	CA	1687	1/1	0.92	0.14	64,64,64,64	0
59	MG	DA	3110	1/1	0.92	0.30	46,46,46,46	0
59	MG	CA	1733	1/1	0.92	0.23	50,50,50,50	0
59	MG	DA	3241	1/1	0.92	0.12	69,69,69,69	0
59	MG	AA	1673	1/1	0.92	0.25	72,72,72,72	0
59	MG	DA	3343	1/1	0.92	0.29	48,48,48,48	0
59	MG	DA	3347	1/1	0.92	0.35	24,24,24,24	1
59	MG	BA	3030	1/1	0.92	0.32	59,59,59,59	0
59	MG	DA	3122	1/1	0.92	0.61	73,73,73,73	0
59	MG	DA	3351	1/1	0.92	0.74	70,70,70,70	0
59	MG	DA	3352	1/1	0.92	0.22	46,46,46,46	0
59	MG	AA	1619	1/1	0.92	0.31	39,39,39,39	0
59	MG	BA	3190	1/1	0.92	0.13	47,47,47,47	0
59	MG	CA	1644	1/1	0.92	0.10	64,64,64,64	0
59	MG	DA	3135	1/1	0.92	0.16	33,33,33,33	0
59	MG	BA	3073	1/1	0.92	0.39	46,46,46,46	0
59	MG	CA	1744	1/1	0.92	0.31	38,38,38,38	0
59	MG	DD	301	1/1	0.92	0.28	37,37,37,37	0
59	MG	DA	3143	1/1	0.92	0.26	48,48,48,48	0
59	MG	DA	3263	1/1	0.92	0.42	53,53,53,53	0
59	MG	AA	1675	1/1	0.92	0.13	35,35,35,35	0
59	MG	CA	1602	1/1	0.92	0.30	16,16,16,16	1
59	MG	BA	3237	1/1	0.93	0.39	64,64,64,64	0
59	MG	AA	1670	1/1	0.93	0.19	34,34,34,34	0
59	MG	DA	3283	1/1	0.93	0.11	35,35,35,35	0
59	MG	BA	3086	1/1	0.93	0.35	25,25,25,25	0
59	MG	AV	102	1/1	0.93	0.12	61,61,61,61	0
59	MG	CA	1634	1/1	0.93	0.44	35,35,35,35	0
59	MG	B1	101	1/1	0.93	0.27	6,6,6,6	1
59	MG	DA	3056	1/1	0.93	0.40	26,26,26,26	0
59	MG	AA	1685	1/1	0.93	0.12	57,57,57,57	0
59	MG	BA	3059	1/1	0.93	0.21	30,30,30,30	0
59	MG	DA	3202	1/1	0.93	0.32	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	AA	1756	1/1	0.93	0.09	64,64,64,64	0
59	MG	BA	3189	1/1	0.93	0.19	41,41,41,41	0
59	MG	DA	3207	1/1	0.93	0.19	40,40,40,40	0
59	MG	DA	3209	1/1	0.93	0.23	47,47,47,47	0
59	MG	AA	1663	1/1	0.93	0.17	50,50,50,50	0
59	MG	BA	3128	1/1	0.93	0.18	60,60,60,60	0
59	MG	DA	3085	1/1	0.93	0.14	5,5,5,5	0
59	MG	DA	3314	1/1	0.93	0.54	31,31,31,31	0
59	MG	DA	3315	1/1	0.93	0.18	15,15,15,15	0
59	MG	DA	3316	1/1	0.93	0.18	33,33,33,33	1
59	MG	DA	3091	1/1	0.93	0.28	21,21,21,21	1
59	MG	AA	1605	1/1	0.93	0.10	58,58,58,58	0
59	MG	DA	3096	1/1	0.93	0.40	50,50,50,50	0
59	MG	AA	1738	1/1	0.93	0.11	85,85,85,85	0
59	MG	BA	3075	1/1	0.93	0.30	32,32,32,32	0
59	MG	DA	3224	1/1	0.93	0.48	44,44,44,44	0
59	MG	DA	3109	1/1	0.93	0.20	6,6,6,6	1
59	MG	BA	3134	1/1	0.93	0.19	52,52,52,52	0
59	MG	AA	1708	1/1	0.93	0.11	76,76,76,76	1
59	MG	CA	1651	1/1	0.93	0.36	40,40,40,40	0
59	MG	BA	3168	1/1	0.93	0.15	37,37,37,37	0
59	MG	DA	3238	1/1	0.93	0.38	47,47,47,47	0
59	MG	DA	3334	1/1	0.93	0.12	63,63,63,63	0
59	MG	BA	3112	1/1	0.93	0.16	44,44,44,44	0
59	MG	CA	1655	1/1	0.93	0.32	37,37,37,37	0
59	MG	AA	1668	1/1	0.93	0.23	40,40,40,40	0
59	MG	CA	1755	1/1	0.93	0.19	97,97,97,97	1
59	MG	BA	3306	1/1	0.93	0.36	29,29,29,29	0
59	MG	BA	3343	1/1	0.93	0.12	75,75,75,75	0
59	MG	DA	3341	1/1	0.93	0.24	36,36,36,36	1
59	MG	DA	3139	1/1	0.93	0.28	23,23,23,23	0
59	MG	BA	3264	1/1	0.93	0.13	64,64,64,64	0
59	MG	BA	3231	1/1	0.93	0.25	25,25,25,25	1
59	MG	CA	1618	1/1	0.93	0.14	38,38,38,38	0
59	MG	AA	1615	1/1	0.93	0.50	50,50,50,50	0
59	MG	CA	1665	1/1	0.93	0.49	46,46,46,46	0
59	MG	BA	3233	1/1	0.93	0.24	50,50,50,50	0
59	MG	BA	3235	1/1	0.93	0.22	42,42,42,42	0
59	MG	CW	103	1/1	0.93	0.29	15,15,15,15	1
59	MG	DA	3271	1/1	0.93	0.46	58,58,58,58	0
59	MG	BA	3115	1/1	0.93	0.46	43,43,43,43	0
59	MG	CA	1717	1/1	0.93	0.20	63,63,63,63	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3275	1/1	0.93	0.41	28,28,28,28	1
59	MG	DA	3001	1/1	0.93	0.20	29,29,29,29	1
59	MG	BA	3316	1/1	0.93	0.26	74,74,74,74	0
59	MG	DA	3167	1/1	0.93	0.45	46,46,46,46	0
59	MG	DA	3010	1/1	0.93	0.33	54,54,54,54	0
59	MG	DA	3029	1/1	0.93	0.28	49,49,49,49	0
59	MG	DA	3251	1/1	0.94	0.16	18,18,18,18	1
59	MG	DA	3252	1/1	0.94	0.31	51,51,51,51	0
59	MG	BX	101	1/1	0.94	0.32	47,47,47,47	0
59	MG	DA	3117	1/1	0.94	0.13	16,16,16,16	0
59	MG	AA	1700	1/1	0.94	0.37	77,77,77,77	0
59	MG	BA	3072	1/1	0.94	0.41	41,41,41,41	0
59	MG	DA	3261	1/1	0.94	0.20	33,33,33,33	0
59	MG	BA	3022	1/1	0.94	0.41	22,22,22,22	0
59	MG	CA	1737	1/1	0.94	0.59	59,59,59,59	0
59	MG	DA	3264	1/1	0.94	0.28	58,58,58,58	1
59	MG	DA	3128	1/1	0.94	0.38	56,56,56,56	0
59	MG	CA	1605	1/1	0.94	0.12	44,44,44,44	0
59	MG	AA	1754	1/1	0.94	0.10	51,51,51,51	0
59	MG	AA	1603	1/1	0.94	0.16	60,60,60,60	0
59	MG	BA	3263	1/1	0.94	0.36	54,54,54,54	0
59	MG	AA	1688	1/1	0.94	0.25	52,52,52,52	0
59	MG	BA	3266	1/1	0.94	0.36	35,35,35,35	0
59	MG	AW	104	1/1	0.94	0.22	67,67,67,67	1
59	MG	AA	1678	1/1	0.94	0.38	56,56,56,56	0
59	MG	CA	1750	1/1	0.94	0.16	76,76,76,76	0
59	MG	CA	1752	1/1	0.94	0.08	84,84,84,84	0
59	MG	BA	3272	1/1	0.94	0.50	44,44,44,44	0
59	MG	BA	3125	1/1	0.94	0.34	19,19,19,19	0
59	MG	AA	1610	1/1	0.94	0.14	80,80,80,80	1
59	MG	BA	3330	1/1	0.94	0.42	49,49,49,49	0
59	MG	DA	3286	1/1	0.94	0.34	41,41,41,41	0
59	MG	BA	3175	1/1	0.94	0.12	65,65,65,65	0
59	MG	DA	3160	1/1	0.94	0.34	18,18,18,18	0
59	MG	CA	1623	1/1	0.94	0.25	51,51,51,51	0
59	MG	DA	3291	1/1	0.94	0.11	49,49,49,49	0
59	MG	DA	3164	1/1	0.94	0.49	44,44,44,44	0
59	MG	BA	3088	1/1	0.94	0.51	38,38,38,38	0
59	MG	DA	3166	1/1	0.94	0.15	29,29,29,29	0
59	MG	BA	3177	1/1	0.94	0.22	77,77,77,77	0
59	MG	DA	3169	1/1	0.94	0.15	47,47,47,47	0
59	MG	CA	1627	1/1	0.94	0.08	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3089	1/1	0.94	0.27	28,28,28,28	0
59	MG	AA	1744	1/1	0.94	0.24	1,1,1,1	1
59	MG	CA	1697	1/1	0.94	0.09	58,58,58,58	0
59	MG	DA	3181	1/1	0.94	0.31	26,26,26,26	0
59	MG	DA	3182	1/1	0.94	0.23	42,42,42,42	0
59	MG	BA	3282	1/1	0.94	0.09	68,68,68,68	0
59	MG	B5	101	1/1	0.94	0.25	38,38,38,38	0
59	MG	BA	3339	1/1	0.94	0.09	21,21,21,21	1
59	MG	DA	3002	1/1	0.94	0.17	39,39,39,39	1
59	MG	AA	1625	1/1	0.94	0.28	53,53,53,53	0
59	MG	DA	3195	1/1	0.94	0.14	102,102,102,102	0
59	MG	DA	3196	1/1	0.94	0.20	41,41,41,41	0
59	MG	BA	3135	1/1	0.94	0.41	53,53,53,53	0
59	MG	DA	3028	1/1	0.94	0.28	24,24,24,24	0
59	MG	DA	3201	1/1	0.94	0.42	29,29,29,29	0
59	MG	BA	3136	1/1	0.94	0.23	42,42,42,42	0
59	MG	DA	3326	1/1	0.94	0.61	35,35,35,35	0
59	MG	DA	3030	1/1	0.94	0.35	34,34,34,34	0
59	MG	DA	3328	1/1	0.94	0.15	32,32,32,32	0
59	MG	BA	3094	1/1	0.94	0.25	36,36,36,36	0
59	MG	DA	3032	1/1	0.94	0.16	32,32,32,32	0
59	MG	DA	3036	1/1	0.94	0.15	39,39,39,39	0
59	MG	BA	3138	1/1	0.94	0.12	31,31,31,31	0
59	MG	BA	3291	1/1	0.94	0.16	42,42,42,42	0
59	MG	AA	1655	1/1	0.94	0.18	57,57,57,57	0
59	MG	DA	3051	1/1	0.94	0.34	23,23,23,23	0
59	MG	CA	1711	1/1	0.94	0.22	40,40,40,40	0
59	MG	DA	3216	1/1	0.94	0.16	11,11,11,11	1
59	MG	DA	3218	1/1	0.94	0.32	29,29,29,29	0
59	MG	AA	1656	1/1	0.94	0.07	30,30,30,30	0
59	MG	AA	1696	1/1	0.94	0.09	57,57,57,57	1
59	MG	AA	1684	1/1	0.94	0.30	59,59,59,59	0
59	MG	DA	3345	1/1	0.94	0.26	46,46,46,46	0
59	MG	BA	3100	1/1	0.94	0.29	29,29,29,29	0
59	MG	CA	1649	1/1	0.94	0.19	22,22,22,22	0
59	MG	DA	3069	1/1	0.94	0.26	19,19,19,19	0
59	MG	BA	3299	1/1	0.94	0.30	55,55,55,55	0
59	MG	DA	3235	1/1	0.94	0.29	18,18,18,18	0
59	MG	AA	1750	1/1	0.94	0.31	54,54,54,54	0
59	MG	BA	3108	1/1	0.94	0.40	15,15,15,15	0
59	MG	BA	3109	1/1	0.94	0.26	37,37,37,37	1
59	MG	DA	3358	1/1	0.94	0.42	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3239	1/1	0.94	0.12	29,29,29,29	0
59	MG	AA	1698	1/1	0.94	0.33	25,25,25,25	1
59	MG	BA	3064	1/1	0.94	0.63	61,61,61,61	0
59	MG	AA	1638	1/1	0.94	0.11	43,43,43,43	0
59	MG	BA	3016	1/1	0.94	0.39	18,18,18,18	0
59	MG	BA	3207	1/1	0.94	0.22	68,68,68,68	0
59	MG	BA	3068	1/1	0.94	0.26	30,30,30,30	0
59	MG	BA	3257	1/1	0.94	0.18	45,45,45,45	0
59	MG	DA	3129	1/1	0.95	0.20	46,46,46,46	0
59	MG	DA	3024	1/1	0.95	0.35	10,10,10,10	0
59	MG	DA	3025	1/1	0.95	0.27	29,29,29,29	0
59	MG	DA	3134	1/1	0.95	0.20	28,28,28,28	0
59	MG	BA	3267	1/1	0.95	0.23	25,25,25,25	0
59	MG	DA	3297	1/1	0.95	0.31	42,42,42,42	1
59	MG	DA	3137	1/1	0.95	0.28	11,11,11,11	0
59	MG	BA	3060	1/1	0.95	0.26	14,14,14,14	0
59	MG	BA	3034	1/1	0.95	0.19	39,39,39,39	0
59	MG	BA	3222	1/1	0.95	0.41	29,29,29,29	0
59	MG	AA	1609	1/1	0.95	0.13	38,38,38,38	1
59	MG	DA	3307	1/1	0.95	0.31	14,14,14,14	0
59	MG	BA	3206	1/1	0.95	0.12	85,85,85,85	0
59	MG	DA	3225	1/1	0.95	0.10	34,34,34,34	0
59	MG	BA	3024	1/1	0.95	0.34	36,36,36,36	0
59	MG	DA	3227	1/1	0.95	0.24	22,22,22,22	0
59	MG	DA	3147	1/1	0.95	0.20	52,52,52,52	0
59	MG	DA	3150	1/1	0.95	0.25	48,48,48,48	0
59	MG	DA	3232	1/1	0.95	0.29	37,37,37,37	1
59	MG	DA	3233	1/1	0.95	0.30	37,37,37,37	0
59	MG	DA	3040	1/1	0.95	0.25	27,27,27,27	0
59	MG	BA	3251	1/1	0.95	0.28	55,55,55,55	0
59	MG	AA	1643	1/1	0.95	0.21	93,93,93,93	0
59	MG	BA	3279	1/1	0.95	0.30	39,39,39,39	0
59	MG	BA	3229	1/1	0.95	0.13	37,37,37,37	0
59	MG	CA	1635	1/1	0.95	0.09	31,31,31,31	0
59	MG	DA	3054	1/1	0.95	0.42	22,22,22,22	0
59	MG	BA	3102	1/1	0.95	0.14	20,20,20,20	0
59	MG	DA	3163	1/1	0.95	0.17	27,27,27,27	0
59	MG	BA	3150	1/1	0.95	0.15	44,44,44,44	0
59	MG	BA	3104	1/1	0.95	0.38	57,57,57,57	0
59	MG	DA	3329	1/1	0.95	0.53	47,47,47,47	0
59	MG	DA	3330	1/1	0.95	0.23	23,23,23,23	0
59	MG	BA	3340	1/1	0.95	0.08	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3284	1/1	0.95	0.19	31,31,31,31	0
59	MG	BA	3285	1/1	0.95	0.22	37,37,37,37	1
59	MG	CA	1610	1/1	0.95	0.21	60,60,60,60	0
59	MG	DA	3255	1/1	0.95	0.17	13,13,13,13	0
59	MG	BA	3315	1/1	0.95	0.12	45,45,45,45	0
59	MG	CA	1681	1/1	0.95	0.09	58,58,58,58	0
59	MG	DA	3259	1/1	0.95	0.34	31,31,31,31	0
59	MG	BA	3017	1/1	0.95	0.29	45,45,45,45	0
59	MG	DA	3093	1/1	0.95	0.27	11,11,11,11	0
59	MG	BA	3174	1/1	0.95	0.28	29,29,29,29	0
59	MG	BA	3019	1/1	0.95	0.36	26,26,26,26	0
59	MG	BA	3156	1/1	0.95	0.14	58,58,58,58	0
59	MG	DA	3191	1/1	0.95	0.28	34,34,34,34	0
59	MG	DA	3268	1/1	0.95	0.17	30,30,30,30	0
59	MG	DA	3104	1/1	0.95	0.35	35,35,35,35	0
59	MG	AA	1761	1/1	0.95	0.16	88,88,88,88	0
59	MG	BA	3321	1/1	0.95	0.15	73,73,73,73	0
59	MG	D5	101	1/1	0.95	0.26	25,25,25,25	0
59	MG	D5	102	1/1	0.95	0.44	28,28,28,28	0
59	MG	DA	3115	1/1	0.95	0.26	44,44,44,44	0
59	MG	BA	3021	1/1	0.95	0.22	32,32,32,32	0
59	MG	DA	3118	1/1	0.95	0.27	15,15,15,15	0
59	MG	CA	1653	1/1	0.95	0.07	44,44,44,44	0
59	MG	DA	3203	1/1	0.95	0.21	37,37,37,37	0
59	MG	DB	202	1/1	0.95	0.26	23,23,23,23	0
59	MG	DA	3004	1/1	0.95	0.25	25,25,25,25	0
59	MG	CA	1693	1/1	0.95	0.45	56,56,56,56	0
59	MG	DE	301	1/1	0.95	0.24	41,41,41,41	0
59	MG	BA	3008	1/1	0.95	0.29	58,58,58,58	0
59	MG	DA	3208	1/1	0.95	0.15	26,26,26,26	0
59	MG	DA	3021	1/1	0.95	0.23	20,20,20,20	0
59	MG	DA	3287	1/1	0.95	0.15	28,28,28,28	0
59	MG	BA	3018	1/1	0.96	0.22	35,35,35,35	0
59	MG	CA	1729	1/1	0.96	0.30	33,33,33,33	1
59	MG	BD	302	1/1	0.96	0.21	29,29,29,29	0
59	MG	BA	3101	1/1	0.96	0.40	27,27,27,27	0
59	MG	DA	3034	1/1	0.96	0.33	32,32,32,32	0
59	MG	DA	3035	1/1	0.96	0.25	19,19,19,19	0
59	MG	BA	3275	1/1	0.96	0.36	27,27,27,27	1
59	MG	AA	1629	1/1	0.96	0.20	61,61,61,61	0
59	MG	AA	1618	1/1	0.96	0.09	30,30,30,30	1
59	MG	BA	3307	1/1	0.96	0.29	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3168	1/1	0.96	0.09	18,18,18,18	0
59	MG	BY	201	1/1	0.96	0.12	42,42,42,42	0
59	MG	BA	3148	1/1	0.96	0.09	44,44,44,44	0
59	MG	DA	3171	1/1	0.96	0.16	3,3,3,3	0
59	MG	DA	3172	1/1	0.96	0.20	3,3,3,3	0
59	MG	BA	3337	1/1	0.96	0.28	55,55,55,55	0
59	MG	DA	3176	1/1	0.96	0.28	7,7,7,7	0
59	MG	CA	1741	1/1	0.96	0.36	34,34,34,34	0
59	MG	CA	1643	1/1	0.96	0.13	10,10,10,10	1
59	MG	DA	3180	1/1	0.96	0.32	11,11,11,11	0
59	MG	AA	1715	1/1	0.96	0.30	59,59,59,59	0
59	MG	AA	1631	1/1	0.96	0.06	45,45,45,45	0
59	MG	DA	3183	1/1	0.96	0.15	45,45,45,45	0
59	MG	DA	3063	1/1	0.96	0.19	17,17,17,17	0
59	MG	CA	1745	1/1	0.96	0.26	37,37,37,37	0
59	MG	BA	3063	1/1	0.96	0.14	56,56,56,56	0
59	MG	DA	3293	1/1	0.96	0.84	63,63,63,63	0
59	MG	DA	3068	1/1	0.96	0.22	6,6,6,6	0
59	MG	CA	1647	1/1	0.96	0.32	44,44,44,44	0
59	MG	CA	1608	1/1	0.96	0.14	35,35,35,35	0
59	MG	DA	3074	1/1	0.96	0.26	24,24,24,24	0
59	MG	DA	3075	1/1	0.96	0.29	26,26,26,26	0
59	MG	CA	1609	1/1	0.96	0.25	58,58,58,58	0
59	MG	DA	3306	1/1	0.96	0.39	15,15,15,15	0
59	MG	CA	1751	1/1	0.96	0.14	62,62,62,62	0
59	MG	DA	3200	1/1	0.96	0.31	18,18,18,18	0
59	MG	DA	3082	1/1	0.96	0.24	56,56,56,56	0
59	MG	DA	3310	1/1	0.96	0.23	51,51,51,51	0
59	MG	BA	3035	1/1	0.96	0.19	21,21,21,21	0
59	MG	DA	3086	1/1	0.96	0.25	18,18,18,18	0
59	MG	DA	3088	1/1	0.96	0.43	8,8,8,8	0
59	MG	BA	3090	1/1	0.96	0.27	33,33,33,33	0
59	MG	DA	3206	1/1	0.96	0.21	57,57,57,57	0
59	MG	AA	1620	1/1	0.96	0.24	54,54,54,54	0
59	MG	BA	3230	1/1	0.96	0.21	40,40,40,40	0
59	MG	CA	1703	1/1	0.96	0.11	62,62,62,62	0
59	MG	DA	3097	1/1	0.96	0.14	15,15,15,15	0
59	MG	BA	3038	1/1	0.96	0.26	44,44,44,44	0
59	MG	DA	3101	1/1	0.96	0.39	16,16,16,16	0
59	MG	DA	3213	1/1	0.96	0.24	17,17,17,17	0
59	MG	CA	1705	1/1	0.96	0.24	47,47,47,47	0
59	MG	BA	3347	1/1	0.96	0.19	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3108	1/1	0.96	0.38	16,16,16,16	0
59	MG	DA	3217	1/1	0.96	0.19	7,7,7,7	0
59	MG	CV	102	1/1	0.96	0.11	43,43,43,43	0
59	MG	CV	103	1/1	0.96	0.08	57,57,57,57	0
59	MG	CV	104	1/1	0.96	0.07	2,2,2,2	1
59	MG	DA	3113	1/1	0.96	0.23	16,16,16,16	0
59	MG	BA	3013	1/1	0.96	0.21	54,54,54,54	0
59	MG	BA	3040	1/1	0.96	0.27	36,36,36,36	0
59	MG	BA	3350	1/1	0.96	0.69	69,69,69,69	0
59	MG	BA	3234	1/1	0.96	0.35	26,26,26,26	0
59	MG	CA	1620	1/1	0.96	0.19	48,48,48,48	0
59	MG	BA	3042	1/1	0.96	0.45	43,43,43,43	0
59	MG	DA	3231	1/1	0.96	0.22	27,27,27,27	0
59	MG	BA	3211	1/1	0.96	0.22	44,44,44,44	0
59	MG	DA	3124	1/1	0.96	0.38	20,20,20,20	1
59	MG	DA	3234	1/1	0.96	0.46	69,69,69,69	0
59	MG	AA	1636	1/1	0.96	0.14	21,21,21,21	0
59	MG	BA	3164	1/1	0.96	0.30	52,52,52,52	0
59	MG	CA	1625	1/1	0.96	0.17	36,36,36,36	0
59	MG	DA	3131	1/1	0.96	0.12	18,18,18,18	0
59	MG	DA	3348	1/1	0.96	0.16	18,18,18,18	0
59	MG	CA	1718	1/1	0.96	0.14	44,44,44,44	1
59	MG	DA	3003	1/1	0.96	0.31	35,35,35,35	0
59	MG	BA	3074	1/1	0.96	0.28	37,37,37,37	0
59	MG	BA	3270	1/1	0.96	0.30	49,49,49,49	0
59	MG	DA	3007	1/1	0.96	0.24	4,4,4,4	0
59	MG	DA	3009	1/1	0.96	0.29	15,15,15,15	0
59	MG	AA	1725	1/1	0.96	0.11	94,94,94,94	0
59	MG	DA	3246	1/1	0.96	0.26	45,45,45,45	0
59	MG	DA	3011	1/1	0.96	0.25	10,10,10,10	0
59	MG	DA	3014	1/1	0.96	0.29	20,20,20,20	0
59	MG	DA	3017	1/1	0.96	0.22	22,22,22,22	0
59	MG	CA	1630	1/1	0.96	0.29	68,68,68,68	0
59	MG	DA	3149	1/1	0.96	0.16	43,43,43,43	0
59	MG	BA	3328	1/1	0.96	0.22	32,32,32,32	0
59	MG	DF	301	1/1	0.96	0.11	9,9,9,9	0
59	MG	DA	3151	1/1	0.96	0.27	25,25,25,25	0
59	MG	CA	1676	1/1	0.96	0.15	46,46,46,46	1
59	MG	DA	3026	1/1	0.96	0.22	21,21,21,21	0
59	MG	DS	201	1/1	0.96	0.26	30,30,30,30	0
59	MG	BA	3193	1/1	0.96	0.39	5,5,5,5	1
59	MG	BA	3228	1/1	0.97	0.12	48,48,48,48	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3019	1/1	0.97	0.31	17,17,17,17	0
59	MG	DA	3284	1/1	0.97	0.22	1,1,1,1	0
59	MG	BA	3201	1/1	0.97	0.19	37,37,37,37	0
59	MG	DA	3022	1/1	0.97	0.41	16,16,16,16	0
59	MG	DA	3023	1/1	0.97	0.48	20,20,20,20	0
59	MG	AA	1627	1/1	0.97	0.13	40,40,40,40	0
59	MG	CA	1606	1/1	0.97	0.42	58,58,58,58	0
59	MG	BA	3052	1/1	0.97	0.15	28,28,28,28	0
59	MG	DA	3027	1/1	0.97	0.17	1,1,1,1	0
59	MG	BA	3301	1/1	0.97	0.23	36,36,36,36	0
59	MG	BA	3265	1/1	0.97	0.08	32,32,32,32	0
59	MG	DA	3294	1/1	0.97	0.34	33,33,33,33	0
59	MG	DA	3296	1/1	0.97	0.07	34,34,34,34	0
59	MG	BA	3083	1/1	0.97	0.25	25,25,25,25	0
59	MG	DA	3126	1/1	0.97	0.29	6,6,6,6	0
59	MG	DA	3127	1/1	0.97	0.10	6,6,6,6	0
59	MG	DA	3300	1/1	0.97	0.19	10,10,10,10	0
59	MG	DA	3302	1/1	0.97	0.13	1,1,1,1	0
59	MG	BA	3084	1/1	0.97	0.16	27,27,27,27	0
59	MG	BA	3053	1/1	0.97	0.17	45,45,45,45	1
59	MG	BA	3054	1/1	0.97	0.32	19,19,19,19	0
59	MG	BA	3055	1/1	0.97	0.33	25,25,25,25	0
59	MG	BA	3058	1/1	0.97	0.36	30,30,30,30	0
59	MG	DA	3133	1/1	0.97	0.19	13,13,13,13	1
59	MG	DA	3038	1/1	0.97	0.26	20,20,20,20	0
59	MG	BA	3345	1/1	0.97	0.43	63,63,63,63	0
59	MG	DA	3136	1/1	0.97	0.34	38,38,38,38	0
59	MG	BA	3238	1/1	0.97	0.09	17,17,17,17	0
59	MG	DA	3043	1/1	0.97	0.29	2,2,2,2	0
59	MG	BA	3014	1/1	0.97	0.33	45,45,45,45	0
59	MG	DA	3140	1/1	0.97	0.27	57,57,57,57	0
59	MG	CA	1754	1/1	0.97	0.52	68,68,68,68	1
59	MG	DA	3142	1/1	0.97	0.43	17,17,17,17	0
59	MG	DA	3049	1/1	0.97	0.29	15,15,15,15	0
59	MG	AA	1634	1/1	0.97	0.49	39,39,39,39	0
59	MG	AA	1628	1/1	0.97	0.20	50,50,50,50	0
59	MG	AA	1672	1/1	0.97	0.06	55,55,55,55	0
59	MG	BA	3314	1/1	0.97	0.47	45,45,45,45	0
59	MG	AA	1624	1/1	0.97	0.37	62,62,62,62	0
59	MG	DA	3324	1/1	0.97	0.28	25,25,25,25	1
59	MG	CA	1664	1/1	0.97	0.20	28,28,28,28	0
59	MG	DA	3060	1/1	0.97	0.24	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CV	101	1/1	0.97	0.16	29,29,29,29	0
59	MG	BA	3244	1/1	0.97	0.26	51,51,51,51	0
59	MG	CA	1666	1/1	0.97	0.45	59,59,59,59	0
59	MG	DA	3067	1/1	0.97	0.11	13,13,13,13	0
59	MG	BA	3186	1/1	0.97	0.31	28,28,28,28	0
59	MG	CA	1668	1/1	0.97	0.43	50,50,50,50	0
59	MG	BA	3066	1/1	0.97	0.51	25,25,25,25	0
59	MG	DA	3162	1/1	0.97	0.19	1,1,1,1	0
59	MG	DA	3072	1/1	0.97	0.23	20,20,20,20	0
59	MG	DA	3247	1/1	0.97	0.14	44,44,44,44	0
59	MG	AA	1602	1/1	0.97	0.29	53,53,53,53	1
59	MG	AA	1693	1/1	0.97	0.20	41,41,41,41	0
59	MG	DA	3076	1/1	0.97	0.21	11,11,11,11	0
59	MG	BA	3005	1/1	0.97	0.37	27,27,27,27	0
59	MG	DA	3254	1/1	0.97	0.15	50,50,50,50	1
59	MG	AA	1626	1/1	0.97	0.56	61,61,61,61	0
59	MG	DA	3081	1/1	0.97	0.23	16,16,16,16	0
59	MG	DA	3257	1/1	0.97	0.11	35,35,35,35	0
59	MG	DA	3346	1/1	0.97	0.26	42,42,42,42	0
59	MG	AA	1695	1/1	0.97	0.18	56,56,56,56	0
59	MG	BA	3253	1/1	0.97	0.11	65,65,65,65	1
59	MG	AA	1632	1/1	0.97	0.57	56,56,56,56	0
59	MG	DA	3087	1/1	0.97	0.20	1,1,1,1	0
59	MG	BA	3106	1/1	0.97	0.23	34,34,34,34	0
59	MG	DA	3090	1/1	0.97	0.26	20,20,20,20	0
59	MG	DA	3353	1/1	0.97	0.21	43,43,43,43	0
59	MG	DA	3354	1/1	0.97	0.21	21,21,21,21	0
59	MG	BA	3224	1/1	0.97	0.08	37,37,37,37	0
59	MG	DA	3266	1/1	0.97	0.23	27,27,27,27	0
59	MG	AA	1686	1/1	0.97	0.34	64,64,64,64	0
59	MG	BA	3047	1/1	0.97	0.17	18,18,18,18	0
59	MG	DA	3269	1/1	0.97	0.21	7,7,7,7	0
59	MG	BA	3012	1/1	0.97	0.24	25,25,25,25	0
59	MG	CA	1683	1/1	0.97	0.12	35,35,35,35	0
59	MG	DB	203	1/1	0.97	0.25	20,20,20,20	0
59	MG	CA	1684	1/1	0.97	0.53	50,50,50,50	0
59	MG	DA	3185	1/1	0.97	0.13	39,39,39,39	0
59	MG	BA	3294	1/1	0.97	0.28	32,32,32,32	0
59	MG	DA	3103	1/1	0.97	0.28	12,12,12,12	0
59	MG	BA	3295	1/1	0.97	0.20	81,81,81,81	1
59	MG	DA	3105	1/1	0.97	0.10	1,1,1,1	0
59	MG	DA	3106	1/1	0.97	0.39	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
59	MG	DA	3012	1/1	0.97	0.35	19,19,19,19	0
59	MG	CA	1735	1/1	0.97	0.10	21,21,21,21	0
60	ZN	B9	101	1/1	0.97	0.06	77,77,77,77	1
59	MG	BA	3056	1/1	0.98	0.40	33,33,33,33	0
59	MG	CA	1669	1/1	0.98	0.28	33,33,33,33	0
59	MG	BA	3141	1/1	0.98	0.26	42,42,42,42	0
59	MG	DA	3047	1/1	0.98	0.20	20,20,20,20	0
59	MG	BA	3057	1/1	0.98	0.30	21,21,21,21	0
59	MG	BA	3116	1/1	0.98	0.30	45,45,45,45	0
59	MG	AA	1635	1/1	0.98	0.07	50,50,50,50	0
59	MG	BA	3178	1/1	0.98	0.33	22,22,22,22	0
59	MG	BA	3248	1/1	0.98	0.07	62,62,62,62	0
59	MG	BD	301	1/1	0.98	0.26	22,22,22,22	0
59	MG	CA	1721	1/1	0.98	0.19	74,74,74,74	0
59	MG	AA	1755	1/1	0.98	0.05	51,51,51,51	0
59	MG	DA	3301	1/1	0.98	0.21	21,21,21,21	0
59	MG	DA	3061	1/1	0.98	0.26	10,10,10,10	0
59	MG	DA	3062	1/1	0.98	0.25	1,1,1,1	0
59	MG	BA	3076	1/1	0.98	0.18	28,28,28,28	0
59	MG	BA	3147	1/1	0.98	0.27	35,35,35,35	0
59	MG	D1	101	1/1	0.98	0.14	22,22,22,22	1
59	MG	DA	3066	1/1	0.98	0.41	14,14,14,14	0
59	MG	DA	3222	1/1	0.98	0.30	15,15,15,15	0
59	MG	DA	3223	1/1	0.98	0.41	32,32,32,32	0
59	MG	AA	1705	1/1	0.98	0.16	43,43,43,43	0
59	MG	CA	1726	1/1	0.98	0.76	48,48,48,48	0
59	MG	BA	3098	1/1	0.98	0.11	15,15,15,15	0
59	MG	DA	3145	1/1	0.98	0.20	43,43,43,43	0
59	MG	DA	3070	1/1	0.98	0.22	11,11,11,11	0
59	MG	BA	3184	1/1	0.98	0.31	27,27,27,27	0
59	MG	DA	3230	1/1	0.98	0.20	42,42,42,42	0
59	MG	DA	3148	1/1	0.98	0.27	7,7,7,7	0
59	MG	BA	3061	1/1	0.98	0.43	21,21,21,21	0
59	MG	DA	3073	1/1	0.98	0.30	15,15,15,15	0
59	MG	BA	3256	1/1	0.98	0.05	25,25,25,25	0
59	MG	DA	3005	1/1	0.98	0.33	21,21,21,21	0
59	MG	BA	3079	1/1	0.98	0.32	36,36,36,36	0
59	MG	DA	3154	1/1	0.98	0.20	31,31,31,31	0
59	MG	DA	3077	1/1	0.98	0.31	9,9,9,9	0
59	MG	CA	1686	1/1	0.98	0.14	21,21,21,21	0
59	MG	DA	3157	1/1	0.98	0.23	26,26,26,26	0
59	MG	BA	3187	1/1	0.98	0.36	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	CA	1604	1/1	0.98	0.17	51,51,51,51	0
59	MG	BA	3062	1/1	0.98	0.35	16,16,16,16	0
59	MG	DA	3083	1/1	0.98	0.26	11,11,11,11	0
59	MG	BA	3126	1/1	0.98	0.11	21,21,21,21	0
59	MG	AA	1608	1/1	0.98	0.15	48,48,48,48	0
59	MG	DA	3015	1/1	0.98	0.24	9,9,9,9	0
59	MG	DA	3016	1/1	0.98	0.46	16,16,16,16	0
59	MG	BA	3157	1/1	0.98	0.22	36,36,36,36	1
59	MG	BA	3300	1/1	0.98	0.25	17,17,17,17	0
59	MG	DA	3020	1/1	0.98	0.28	11,11,11,11	0
59	MG	DA	3094	1/1	0.98	0.31	9,9,9,9	0
59	MG	BA	3158	1/1	0.98	0.47	23,23,23,23	0
59	MG	BA	3103	1/1	0.98	0.42	28,28,28,28	0
59	MG	BA	3037	1/1	0.98	0.25	23,23,23,23	0
59	MG	DA	3173	1/1	0.98	0.24	12,12,12,12	0
59	MG	DA	3098	1/1	0.98	0.15	6,6,6,6	0
59	MG	DA	3344	1/1	0.98	0.14	43,43,43,43	0
59	MG	BA	3130	1/1	0.98	0.09	29,29,29,29	0
59	MG	DA	3177	1/1	0.98	0.22	53,53,53,53	0
59	MG	BA	3197	1/1	0.98	0.35	12,12,12,12	0
59	MG	DA	3102	1/1	0.98	0.12	1,1,1,1	0
59	MG	CA	1746	1/1	0.98	0.12	10,10,10,10	1
59	MG	DA	3265	1/1	0.98	0.08	27,27,27,27	0
59	MG	BA	3009	1/1	0.98	0.34	21,21,21,21	0
59	MG	BA	3269	1/1	0.98	0.41	34,34,34,34	0
59	MG	BA	3085	1/1	0.98	0.17	38,38,38,38	0
59	MG	BA	3133	1/1	0.98	0.26	118,118,118,118	0
59	MG	BA	3165	1/1	0.98	0.41	40,40,40,40	0
59	MG	DA	3186	1/1	0.98	0.30	17,17,17,17	0
59	MG	DA	3272	1/1	0.98	0.25	19,19,19,19	0
59	MG	AA	1612	1/1	0.98	0.09	47,47,47,47	0
59	MG	DA	3188	1/1	0.98	0.26	7,7,7,7	0
59	MG	DA	3190	1/1	0.98	0.29	16,16,16,16	0
59	MG	DA	3033	1/1	0.98	0.26	16,16,16,16	0
59	MG	BA	3087	1/1	0.98	0.21	13,13,13,13	0
59	MG	BA	3011	1/1	0.98	0.38	43,43,43,43	0
59	MG	DA	3114	1/1	0.98	0.18	15,15,15,15	0
59	MG	AA	1683	1/1	0.98	0.13	63,63,63,63	0
59	MG	DA	3116	1/1	0.98	0.16	7,7,7,7	0
59	MG	DA	3037	1/1	0.98	0.25	7,7,7,7	0
59	MG	CA	1709	1/1	0.98	0.08	40,40,40,40	1
59	MG	BA	3043	1/1	0.98	0.28	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	DA	3120	1/1	0.98	0.27	9,9,9,9	0
59	MG	BA	3071	1/1	0.98	0.11	28,28,28,28	0
60	ZN	AN	101	1/1	0.98	0.11	104,104,104,104	0
59	MG	DA	3042	1/1	0.98	0.30	12,12,12,12	0
59	MG	DA	3092	1/1	0.99	0.28	18,18,18,18	0
59	MG	DA	3059	1/1	0.99	0.24	13,13,13,13	0
59	MG	DA	3248	1/1	0.99	0.12	2,2,2,2	1
59	MG	DA	3249	1/1	0.99	0.13	27,27,27,27	1
59	MG	BA	3081	1/1	0.99	0.29	21,21,21,21	0
59	MG	DA	3008	1/1	0.99	0.25	10,10,10,10	0
59	MG	BA	3155	1/1	0.99	0.19	53,53,53,53	0
59	MG	DA	3295	1/1	0.99	0.20	13,13,13,13	1
59	MG	CA	1656	1/1	0.99	0.43	29,29,29,29	0
59	MG	BA	3051	1/1	0.99	0.22	25,25,25,25	0
59	MG	BA	3015	1/1	0.99	0.26	28,28,28,28	0
59	MG	DA	3174	1/1	0.99	0.14	46,46,46,46	0
59	MG	DA	3100	1/1	0.99	0.34	3,3,3,3	0
59	MG	DA	3013	1/1	0.99	0.19	16,16,16,16	0
59	MG	CV	107	1/1	0.99	0.13	51,51,51,51	0
59	MG	BA	3171	1/1	0.99	0.17	30,30,30,30	0
59	MG	CA	1694	1/1	0.99	0.14	37,37,37,37	1
59	MG	BA	3041	1/1	0.99	0.35	17,17,17,17	0
59	MG	DA	3041	1/1	0.99	0.32	17,17,17,17	0
59	MG	DA	3018	1/1	0.99	0.24	16,16,16,16	0
59	MG	BA	3025	1/1	0.99	0.26	40,40,40,40	0
59	MG	CA	1629	1/1	0.99	0.47	55,55,55,55	0
59	MG	BA	3188	1/1	0.99	0.34	14,14,14,14	0
59	MG	DA	3046	1/1	0.99	0.27	11,11,11,11	0
59	MG	DA	3112	1/1	0.99	0.16	42,42,42,42	0
59	MG	BA	3026	1/1	0.99	0.22	8,8,8,8	0
59	MG	DA	3189	1/1	0.99	0.51	21,21,21,21	0
59	MG	DA	3048	1/1	0.99	0.28	22,22,22,22	0
59	MG	DA	3079	1/1	0.99	0.30	10,10,10,10	0
59	MG	BA	3105	1/1	0.99	0.15	9,9,9,9	0
59	MG	DA	3050	1/1	0.99	0.15	13,13,13,13	0
59	MG	BA	3070	1/1	0.99	0.22	37,37,37,37	0
59	MG	BA	3027	1/1	0.99	0.21	19,19,19,19	0
59	MG	DA	3084	1/1	0.99	0.23	13,13,13,13	0
59	MG	BA	3118	1/1	0.99	0.44	38,38,38,38	0
59	MG	CA	1740	1/1	0.99	0.48	56,56,56,56	0
59	MG	DA	3199	1/1	0.99	0.41	14,14,14,14	0
59	MG	DA	3055	1/1	0.99	0.30	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
59	MG	BA	3050	1/1	0.99	0.20	36,36,36,36	0
59	MG	DA	3125	1/1	0.99	0.38	18,18,18,18	0
59	MG	DA	3089	1/1	0.99	0.32	5,5,5,5	0
60	ZN	AD	301	1/1	0.99	0.21	67,67,67,67	0
59	MG	DA	3057	1/1	0.99	0.34	10,10,10,10	0
59	MG	BA	3153	1/1	0.99	0.25	48,48,48,48	0
60	ZN	CD	302	1/1	0.99	0.23	80,80,80,80	0
60	ZN	CN	102	1/1	0.99	0.12	101,101,101,101	0
60	ZN	D9	101	1/1	0.99	0.10	59,59,59,59	0

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

There are no such residues in this entry.