



wwPDB X-ray Structure Validation Summary Report ⓘ

Feb 10, 2025 – 10:07 PM EST

PDB ID : 6BOH
Title : Antibiotic blasticidin S and E. coli release factor 1 (containing deletion 302-304) bound to the 70S ribosome
Authors : Svidritskiy, E.; Korostelev, A.A.
Deposited on : 2017-11-20
Resolution : 3.40 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	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	1.21
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.004 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.40

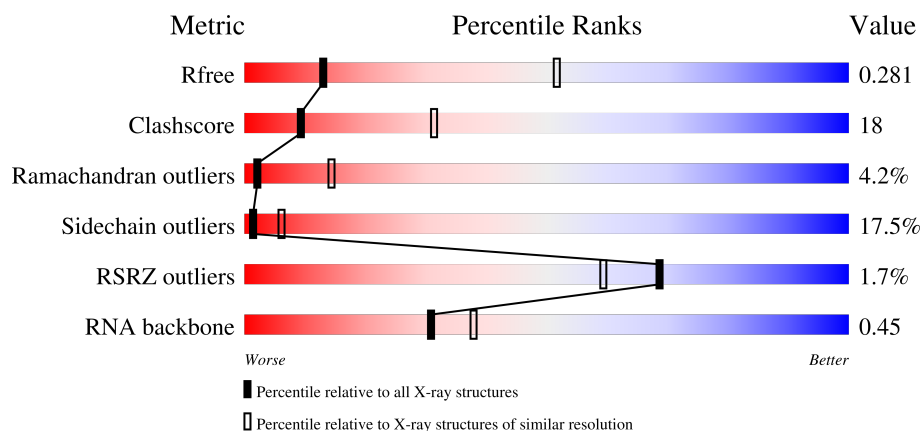
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.40 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.





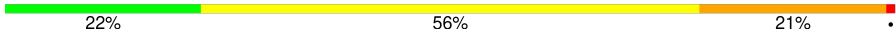
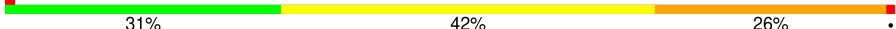
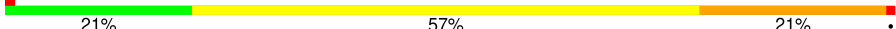
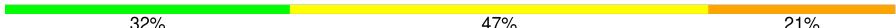




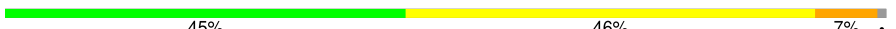
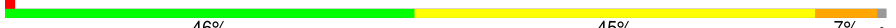




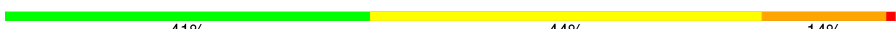
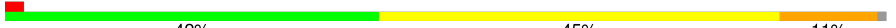


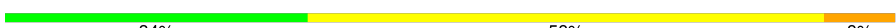




Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	1140 (3.46-3.34)
Clashscore	180529	1172 (3.46-3.34)
Ramachandran outliers	177936	1172 (3.46-3.34)
Sidechain outliers	177891	1172 (3.46-3.34)
RSRZ outliers	164620	1140 (3.46-3.34)
RNA backbone	3690	1033 (3.80-3.00)

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 $\leq 5\%$.

Mol	Chain	Length	Quality of chain
1	A	1507	34% 50% 15%
1	FB	1507	35% 50% 15% .
2	B	2880	34% 45% 19% .
2	GB	2880	37% 43% 18% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	C	120	
3	HB	120	
4	D	77	
4	IA	77	
4	IB	77	
4	NC	77	
5	E	275	
5	JB	275	
6	F	206	
6	KB	206	
7	G	205	
7	LB	205	
8	H	182	
8	MB	182	
9	I	180	
9	NB	180	
10	J	148	
10	OB	148	
11	K	140	
11	PB	140	
12	L	122	
12	QB	122	
13	M	150	
13	RB	150	
14	N	141	


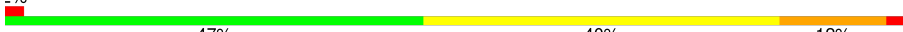
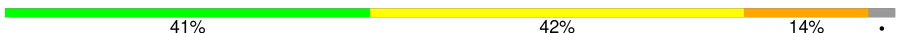


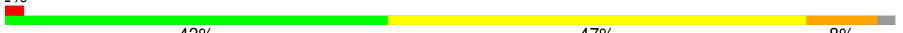














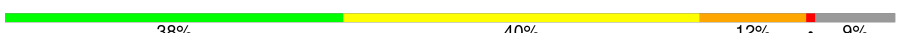
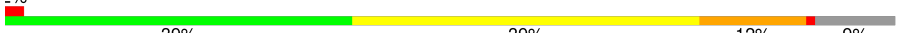



Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
14	SB	141	
15	O	118	
15	TB	118	
16	P	112	
16	UB	112	
17	Q	146	
17	VB	146	
18	R	118	
18	WB	118	
19	S	101	
19	XB	101	
20	T	113	
20	YB	113	
21	U	96	
21	ZB	96	
22	AC	110	
22	V	110	
23	BC	206	
23	W	206	
24	CC	85	
24	X	85	
25	DC	98	
25	Y	98	
26	EC	72	
26	Z	72	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
27	AA	60	
27	FC	60	
28	BA	71	
28	GC	71	
29	CA	60	
29	HC	60	
30	DA	54	
30	IC	54	
31	EA	49	
31	JC	49	
32	FA	65	
32	KC	65	
33	GA	37	
33	LC	37	
34	HA	27	
34	MC	27	
35	JA	365	
35	KA	365	
35	OC	365	
35	PC	365	
36	LA	256	
36	QC	256	
37	MA	239	
37	RC	239	
38	NA	209	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
38	SC	209	
39	OA	162	
39	TC	162	
40	PA	101	
40	UC	101	
41	QA	156	
41	VC	156	
42	RA	138	
42	WC	138	
43	SA	128	
43	XC	128	
44	TA	105	
44	YC	105	
45	UA	129	
45	ZC	129	
46	AD	132	
46	VA	132	
47	BD	126	
47	WA	126	
48	CD	61	
48	XA	61	
49	DD	89	
49	YA	89	
50	ED	88	
50	ZA	88	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
51	AB	105	
51	FD	105	
52	BB	88	
52	GD	88	
53	CB	93	
53	HD	93	
54	DB	106	
54	ID	106	
55	EB	27	
55	JD	27	

2 Entry composition [i](#)

There are 58 unique types of molecules in this entry. The entry contains 298186 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
1	A	1507	Total	C	N	O	P	0	0	0
			32394	14424	5998	10465	1507			
1	FB	1507	Total	C	N	O	P	0	0	0
			32394	14424	5998	10465	1507			

- Molecule 2 is a RNA chain called 23S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	2880	Total	C	N	O	P	0	0	0
			62031	27612	11589	19950	2880			
2	GB	2880	Total	C	N	O	P	0	0	0
			62031	27612	11589	19950	2880			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	154A	C	UNK	conflict	GB 46197919
GB	154A	C	UNK	conflict	GB 46197919

- Molecule 3 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	120	Total	C	N	O	P	0	0	0
			2576	1146	476	834	120			
3	HB	120	Total	C	N	O	P	0	0	0
			2576	1146	476	834	120			

- Molecule 4 is a RNA chain called tRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace	
4	D	77	Total	C	N	O	P	S	0	0	0
			1642	734	297	534	76	1			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
4	IA	77	Total	C	N	O	P	S	0	0	0
			1642	734	297	534	76	1			
4	IB	77	Total	C	N	O	P	S	0	0	0
			1642	734	297	534	76	1			
4	NC	77	Total	C	N	O	P	S	0	0	0
			1642	734	297	534	76	1			

- Molecule 5 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			
5	JB	275	Total	C	N	O	S	0	0	0
			2145	1353	428	361	3			

- Molecule 6 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			
6	KB	204	Total	C	N	O	S	0	0	0
			1563	988	299	270	6			

- Molecule 7 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	202	Total	C	N	O	S	0	0	0
			1586	1011	297	275	3			
7	LB	202	Total	C	N	O	S	0	0	0
			1586	1011	297	275	3			

- Molecule 8 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	181	Total	C	N	O	S	0	0	0
			1471	940	267	260	4			
8	MB	181	Total	C	N	O	S	0	0	0
			1471	940	267	260	4			

- Molecule 9 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
9	NB	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

- Molecule 10 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	146	Total	C	N	O	S	0	0	0
			1137	727	201	208	1			
10	OB	146	Total	C	N	O	S	0	0	0
			1137	727	201	208	1			

- Molecule 11 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	140	Total	C	N	O	S	0	0	0
			1121	722	208	187	4			
11	PB	140	Total	C	N	O	S	0	0	0
			1121	722	208	187	4			

- Molecule 12 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			
12	QB	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			

- Molecule 13 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	M	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			
13	RB	150	Total	C	N	O	S	0	0	0
			1145	712	232	198	3			

- Molecule 14 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	N	141	Total	C	N	O	S	0	0	0
			1121	715	212	187	7			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	SB	141	Total	C	N	O	S	0	0	0
			1121	715	212	187	7			

- Molecule 15 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	O	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
15	TB	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 16 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	P	110	Total	C	N	O	S	0	0	0
			877	553	175	149				
16	UB	110	Total	C	N	O	S	0	0	0
			877	553	175	149				

- Molecule 17 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	Q	137	Total	C	N	O	S	0	0	0
			1143	713	234	195	1			
17	VB	137	Total	C	N	O	S	0	0	0
			1143	713	234	195	1			

- Molecule 18 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	R	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
18	WB	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 19 is a protein called 50S ribosomal protein L21.

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

- Molecule 20 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	T	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			
20	YB	112	Total	C	N	O	S	0	0	0
			890	560	175	153	2			

- Molecule 21 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	U	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
21	ZB	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

- Molecule 22 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	V	107	Total	C	N	O	S	0	0	0
			814	523	154	131	6			
22	AC	107	Total	C	N	O	S	0	0	0
			814	523	154	131	6			

- Molecule 23 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	W	189	Total	C	N	O	S	0	0	0
			1495	953	266	273	3			
23	BC	189	Total	C	N	O	S	0	0	0
			1495	953	266	273	3			

- Molecule 24 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	X	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			
24	CC	84	Total	C	N	O	S	0	0	0
			662	410	140	111	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
X	11	ARG	LYS	conflict	UNP Q72HR3

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
CC	11	ARG	LYS	conflict	UNP Q72HR3

- Molecule 25 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	Y	97	Total	C	N	O	S	0	0	0
			761	478	151	131	1			
25	DC	97	Total	C	N	O	S	0	0	0
			761	478	151	131	1			

- Molecule 26 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	Z	70	Total	C	N	O	S	0	0	0
			592	368	119	103	2			
26	EC	70	Total	C	N	O	S	0	0	0
			592	368	119	103	2			

- Molecule 27 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	AA	60	Total	C	N	O	S	0	0	0
			477	303	91	82	1			
27	FC	60	Total	C	N	O	S	0	0	0
			477	303	91	82	1			

- Molecule 28 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BA	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			
28	GC	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			

- Molecule 29 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	CA	59	Total	C	N	O	S	0	0	0
			460	290	90	75	5			
29	HC	59	Total	C	N	O	S	0	0	0
			460	290	90	75	5			

- Molecule 30 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	DA	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
30	IC	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			

- Molecule 31 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	EA	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
31	JC	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 32 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	FA	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
32	KC	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 33 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	GA	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
33	LC	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 34 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	HA	11	Total	C	N	O	P	0	0	0
			220	98	44	67	11			
34	MC	11	Total	C	N	O	P	0	0	0
			220	98	44	67	11			

- Molecule 35 is a protein called Peptide chain release factor 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	JA	110	Total 850	C 525	N 157	O 164	S 4	0	0	0
35	KA	55	Total 455	C 281	N 83	O 89	S 2	0	0	0
35	OC	110	Total 850	C 525	N 157	O 164	S 4	0	0	0
35	PC	55	Total 455	C 281	N 83	O 89	S 2	0	0	0

There are 44 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
JA	?	-	ASP	deletion	UNP B7MKB3
JA	?	-	ARG	deletion	UNP B7MKB3
JA	?	-	SER	deletion	UNP B7MKB3
JA	358	LEU	-	expression tag	UNP B7MKB3
JA	359	GLU	-	expression tag	UNP B7MKB3
JA	360	HIS	-	expression tag	UNP B7MKB3
JA	361	HIS	-	expression tag	UNP B7MKB3
JA	362	HIS	-	expression tag	UNP B7MKB3
JA	363	HIS	-	expression tag	UNP B7MKB3
JA	364	HIS	-	expression tag	UNP B7MKB3
JA	365	HIS	-	expression tag	UNP B7MKB3
KA	?	-	ASP	deletion	UNP B7MKB3
KA	?	-	ARG	deletion	UNP B7MKB3
KA	?	-	SER	deletion	UNP B7MKB3
KA	361	LEU	-	expression tag	UNP B7MKB3
KA	362	GLU	-	expression tag	UNP B7MKB3
KA	363	HIS	-	expression tag	UNP B7MKB3
KA	364	HIS	-	expression tag	UNP B7MKB3
KA	365	HIS	-	expression tag	UNP B7MKB3
KA	366	HIS	-	expression tag	UNP B7MKB3
KA	367	HIS	-	expression tag	UNP B7MKB3
KA	368	HIS	-	expression tag	UNP B7MKB3
OC	?	-	ASP	deletion	UNP B7MKB3
OC	?	-	ARG	deletion	UNP B7MKB3
OC	?	-	SER	deletion	UNP B7MKB3
OC	358	LEU	-	expression tag	UNP B7MKB3
OC	359	GLU	-	expression tag	UNP B7MKB3
OC	360	HIS	-	expression tag	UNP B7MKB3
OC	361	HIS	-	expression tag	UNP B7MKB3
OC	362	HIS	-	expression tag	UNP B7MKB3
OC	363	HIS	-	expression tag	UNP B7MKB3

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
OC	364	HIS	-	expression tag	UNP B7MKB3
OC	365	HIS	-	expression tag	UNP B7MKB3
PC	?	-	ASP	deletion	UNP B7MKB3
PC	?	-	ARG	deletion	UNP B7MKB3
PC	?	-	SER	deletion	UNP B7MKB3
PC	361	LEU	-	expression tag	UNP B7MKB3
PC	362	GLU	-	expression tag	UNP B7MKB3
PC	363	HIS	-	expression tag	UNP B7MKB3
PC	364	HIS	-	expression tag	UNP B7MKB3
PC	365	HIS	-	expression tag	UNP B7MKB3
PC	366	HIS	-	expression tag	UNP B7MKB3
PC	367	HIS	-	expression tag	UNP B7MKB3
PC	368	HIS	-	expression tag	UNP B7MKB3

- Molecule 36 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	LA	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			
36	QC	234	Total	C	N	O	S	0	0	0
			1900	1213	341	341	5			

- Molecule 37 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	MA	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			
37	RC	206	Total	C	N	O	S	0	0	0
			1612	1016	314	281	1			

- Molecule 38 is a protein called 50S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	NA	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
38	SC	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 39 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	OA	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			
39	TC	151	Total	C	N	O	S	0	0	0
			1155	729	218	204	4			

- Molecule 40 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	PA	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
40	UC	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 41 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	QA	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
41	VC	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 42 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	RA	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
42	WC	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 43 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	SA	127	Total	C	N	O		0	0	0
			1011	639	198	174				
43	XC	127	Total	C	N	O		0	0	0
			1011	639	198	174				

- Molecule 44 is a protein called 30S ribosomal protein S10.

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

Continued on next page...

Continued from previous page...

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

- Molecule 45 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	UA	116	Total	C	N	O	S	0	0	0
			864	537	164	160	3			
45	ZC	116	Total	C	N	O	S	0	0	0
			864	537	164	160	3			

- Molecule 46 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	VA	122	Total	C	N	O	S	0	0	0
			958	604	193	159	2			
46	AD	122	Total	C	N	O	S	0	0	0
			958	604	193	159	2			

- Molecule 47 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	WA	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			
47	BD	117	Total	C	N	O	S	0	0	0
			933	577	192	162	2			

- Molecule 48 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	XA	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
48	CD	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 49 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	YA	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
49	DD	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 50 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	ZA	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			
50	ED	83	Total	C	N	O	S	0	0	0
			700	443	139	117	1			

- Molecule 51 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	AB	99	Total	C	N	O	S	0	0	0
			823	528	152	141	2			
51	FD	99	Total	C	N	O	S	0	0	0
			823	528	152	141	2			

- Molecule 52 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	BB	70	Total	C	N	O	0	0	0
			574	367	112	95			
52	GD	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 53 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	CB	83	Total	C	N	O	S	0	0	0
			665	424	124	115	2			
53	HD	83	Total	C	N	O	S	0	0	0
			665	424	124	115	2			

- Molecule 54 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	DB	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
54	ID	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			

- Molecule 55 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	EB	24	Total	C	N	O	0	0	0
			208	128	50	30			
55	JD	24	Total	C	N	O	0	0	0
			208	128	50	30			

- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	A	183	Total	Mg	0	0
			183	183		
56	B	433	Total	Mg	0	0
			433	433		
56	C	22	Total	Mg	0	0
			22	22		
56	D	5	Total	Mg	0	0
			5	5		
56	E	6	Total	Mg	0	0
			6	6		
56	F	4	Total	Mg	0	0
			4	4		
56	G	2	Total	Mg	0	0
			2	2		
56	H	2	Total	Mg	0	0
			2	2		
56	J	1	Total	Mg	0	0
			1	1		
56	K	4	Total	Mg	0	0
			4	4		
56	L	3	Total	Mg	0	0
			3	3		
56	M	3	Total	Mg	0	0
			3	3		
56	O	2	Total	Mg	0	0
			2	2		
56	Q	1	Total	Mg	0	0
			1	1		
56	R	1	Total	Mg	0	0
			1	1		
56	S	1	Total	Mg	0	0
			1	1		
56	T	2	Total	Mg	0	0
			2	2		
56	U	1	Total	Mg	0	0
			1	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	V	2	Total 2	Mg 2	0	0
56	Y	3	Total 3	Mg 3	0	0
56	Z	1	Total 1	Mg 1	0	0
56	AA	1	Total 1	Mg 1	0	0
56	CA	1	Total 1	Mg 1	0	0
56	EA	1	Total 1	Mg 1	0	0
56	FA	1	Total 1	Mg 1	0	0
56	HA	3	Total 3	Mg 3	0	0
56	IA	9	Total 9	Mg 9	0	0
56	JA	1	Total 1	Mg 1	0	0
56	LA	1	Total 1	Mg 1	0	0
56	MA	6	Total 6	Mg 6	0	0
56	NA	2	Total 2	Mg 2	0	0
56	OA	4	Total 4	Mg 4	0	0
56	PA	3	Total 3	Mg 3	0	0
56	QA	1	Total 1	Mg 1	0	0
56	SA	1	Total 1	Mg 1	0	0
56	UA	1	Total 1	Mg 1	0	0
56	VA	2	Total 2	Mg 2	0	0
56	YA	3	Total 3	Mg 3	0	0
56	AB	2	Total 2	Mg 2	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	BB	1	Total 1	Mg 1	0	0
56	CB	1	Total 1	Mg 1	0	0
56	FB	194	Total 194	Mg 194	0	0
56	GB	402	Total 402	Mg 402	0	0
56	HB	20	Total 20	Mg 20	0	0
56	IB	2	Total 2	Mg 2	0	0
56	JB	5	Total 5	Mg 5	0	0
56	KB	2	Total 2	Mg 2	0	0
56	LB	4	Total 4	Mg 4	0	0
56	NB	1	Total 1	Mg 1	0	0
56	OB	1	Total 1	Mg 1	0	0
56	PB	2	Total 2	Mg 2	0	0
56	QB	2	Total 2	Mg 2	0	0
56	RB	3	Total 3	Mg 3	0	0
56	SB	2	Total 2	Mg 2	0	0
56	TB	1	Total 1	Mg 1	0	0
56	UB	4	Total 4	Mg 4	0	0
56	VB	3	Total 3	Mg 3	0	0
56	XB	2	Total 2	Mg 2	0	0
56	ZB	2	Total 2	Mg 2	0	0
56	AC	1	Total 1	Mg 1	0	0

Continued on next page...

Continued from previous page...

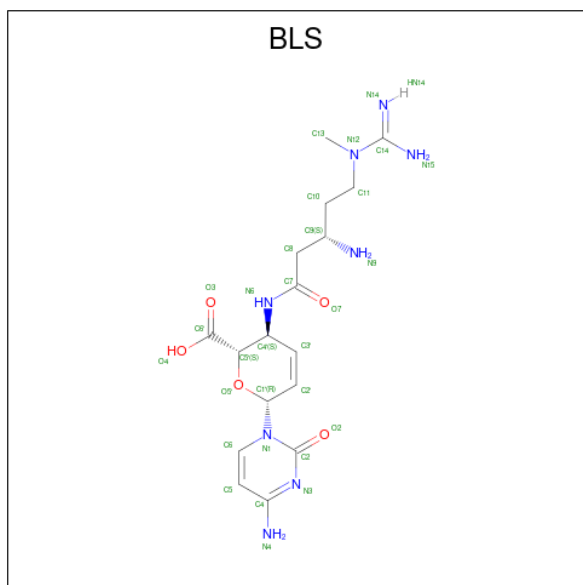
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	BC	1	Total 1	Mg 1	0	0
56	CC	1	Total 1	Mg 1	0	0
56	DC	1	Total 1	Mg 1	0	0
56	GC	1	Total 1	Mg 1	0	0
56	IC	1	Total 1	Mg 1	0	0
56	JC	1	Total 1	Mg 1	0	0
56	KC	1	Total 1	Mg 1	0	0
56	MC	3	Total 3	Mg 3	0	0
56	NC	10	Total 10	Mg 10	0	0
56	OC	1	Total 1	Mg 1	0	0
56	PC	1	Total 1	Mg 1	0	0
56	QC	3	Total 3	Mg 3	0	0
56	RC	2	Total 2	Mg 2	0	0
56	SC	4	Total 4	Mg 4	0	0
56	TC	3	Total 3	Mg 3	0	0
56	UC	3	Total 3	Mg 3	0	0
56	VC	1	Total 1	Mg 1	0	0
56	WC	1	Total 1	Mg 1	0	0
56	ZC	1	Total 1	Mg 1	0	0
56	AD	4	Total 4	Mg 4	0	0
56	BD	1	Total 1	Mg 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	DD	1	Total	Mg	0	0
			1	1		
56	ED	1	Total	Mg	0	0
			1	1		
56	HD	1	Total	Mg	0	0
			1	1		

- Molecule 57 is BLASTICIDIN S (three-letter code: BLS) (formula: $C_{17}H_{26}N_8O_5$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	B	1	Total	C	N	O	0	0
			30	17	8	5		
57	GB	1	Total	C	N	O	0	0
			30	17	8	5		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	V	1	Total	Zn	0	0
			1	1		
58	BA	1	Total	Zn	0	0
			1	1		
58	CA	1	Total	Zn	0	0
			1	1		
58	DA	1	Total	Zn	0	0
			1	1		

Continued on next page...

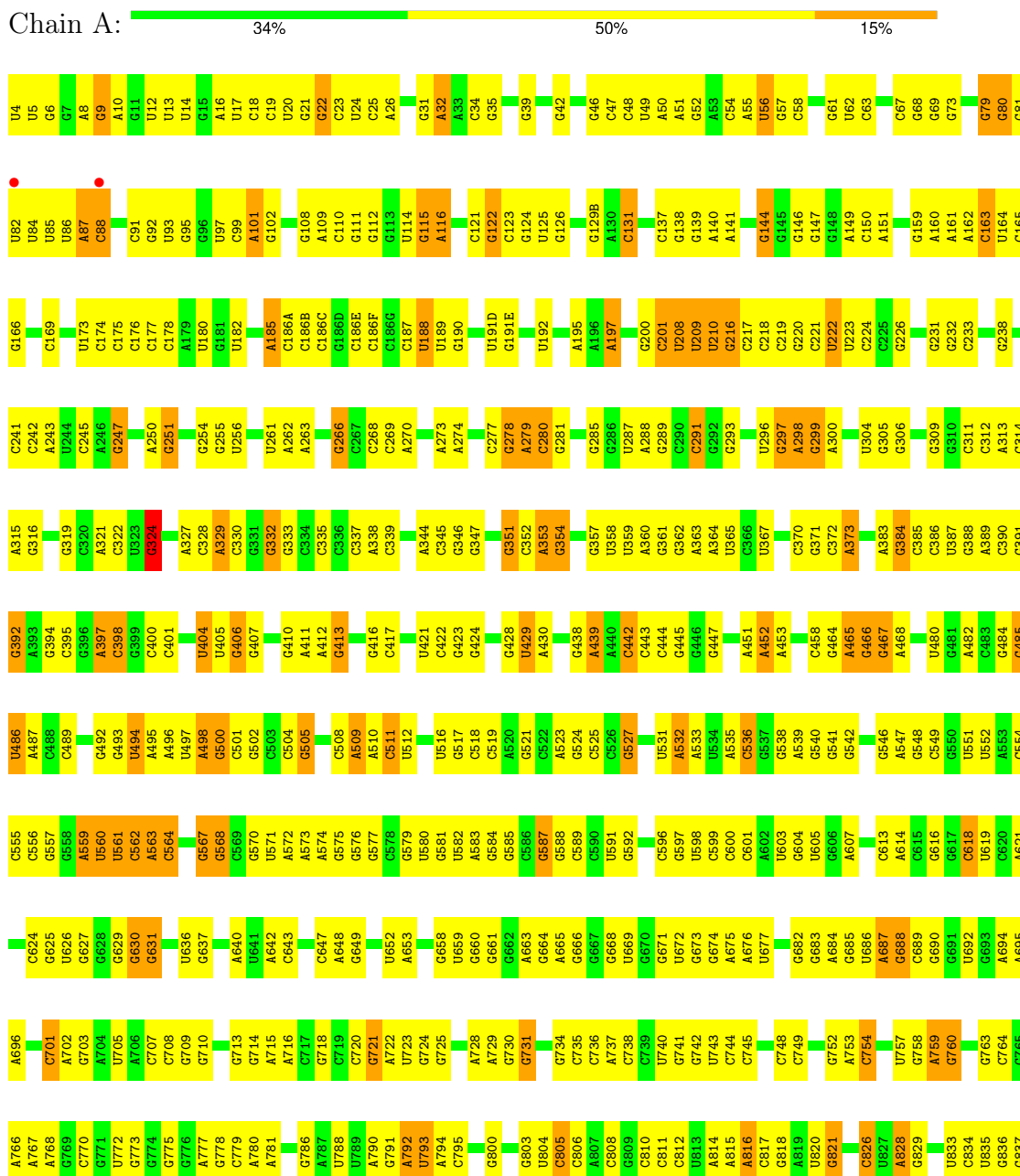
Continued from previous page...

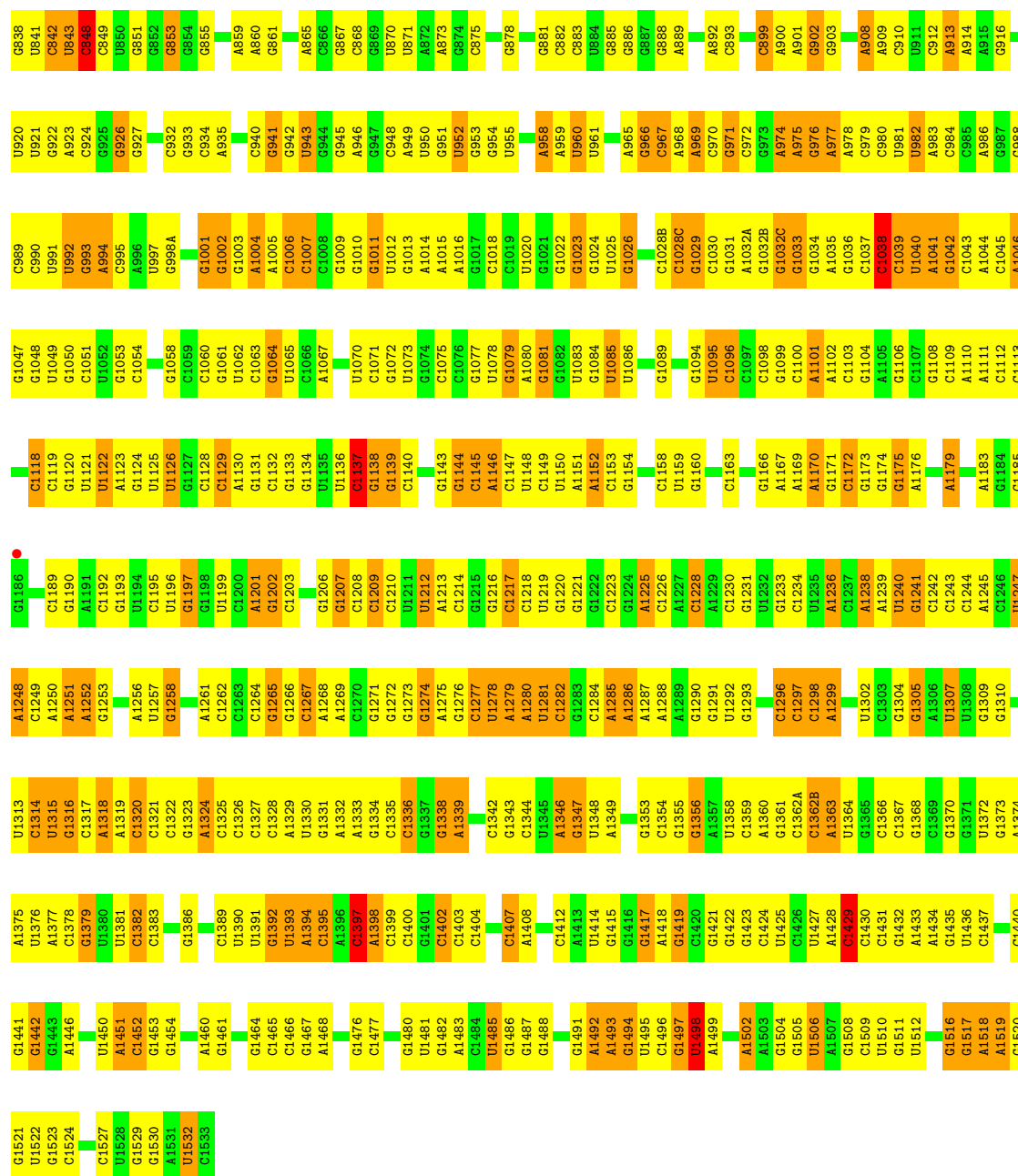
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	GA	1	Total 1	Zn 1	0	0
58	AC	1	Total 1	Zn 1	0	0
58	GC	1	Total 1	Zn 1	0	0
58	HC	1	Total 1	Zn 1	0	0
58	IC	1	Total 1	Zn 1	0	0
58	LC	1	Total 1	Zn 1	0	0

3 Residue-property plots

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry. 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. Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

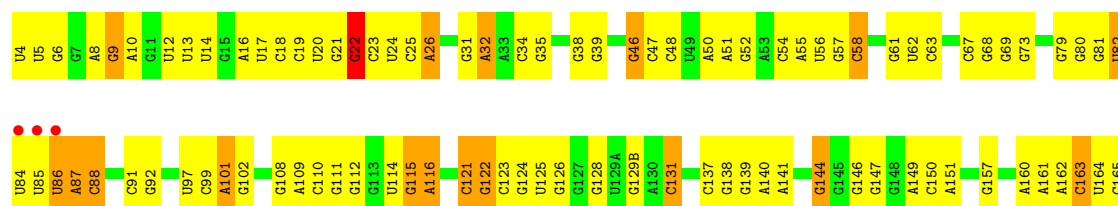
• Molecule 1: 16S ribosomal RNA





• Molecule 1: 16S ribosomal RNA

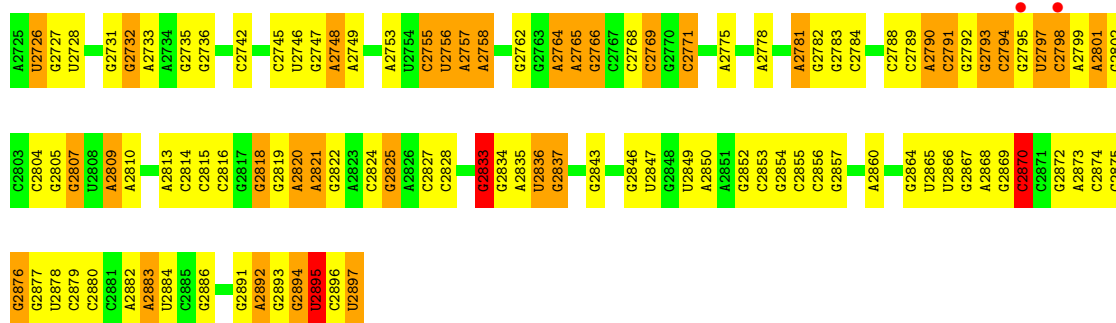
Chain FB: 35% 50% 15%



G1202	G1203	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	G1245	G1246	G1247	G1248	G1249	G1250	G1251	G1252	G1253	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264																																																																																																																																																																																																																																																																																																																																																																																																																		
C1132	G1133	G1134	G1135	G1136	G1137	G1138	G1139	G1140	G1143	G1144	G1145	G1146	G1147	G1148	G1149	G1150	G1151	G1152	G1153	G1154	G1155	G1156	G1157	G1158	G1159	G1160	G1163	G1166	G1167	G1168	G1169	G1170	G1171	G1172	G1173	G1174	G1175	G1176	G1177	G1178	G1179	G1183	G1184	G1185	G1189	G1190	G1191	G1192	G1193	G1194	G1195	G1196	G1197	G1198	G1199	G1200	G1201	G1202	G1203	G1204	G1205	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	G1245	G1246	G1247	G1248	G1249	G1250	G1251	G1252	G1253	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264																																																																																																																																																																																																																																																																																																																																																						
U1062	C1063	G1064	U1065	C1066	G1067	G1068	G1069	U1070	U1071	G1072	U1073	G1077	U1078	G1079	U1080	G1081	G1084	U1085	U1086	G1089	G1094	U1095	C1096	G1097	C1098	G1099	C1100	A1101	C1102	C1103	G1104	G1105	G1106	G1107	G1108	C1109	A1110	A1111	C1112	C1113	C1118	C1119	G1120	U1121	U1122	A1123	G1124	U1125	U1126	G1127	C1128	G1129	A1130	G1131	G1132	G1133	G1134	G1135	G1136	G1137	G1138	G1139	G1140	G1143	G1144	G1145	G1146	G1147	G1148	G1149	G1150	G1151	G1152	G1153	G1154	G1155	G1156	G1157	G1158	G1159	G1160	G1163	G1166	G1167	G1168	G1169	G1170	G1171	G1172	G1173	G1174	G1175	G1176	G1177	G1178	G1179	G1183	G1184	G1185	G1189	G1190	G1191	G1192	G1193	G1194	G1195	G1196	G1197	G1198	G1199	G1200	G1201	G1202	G1203	G1204	G1205	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	G1245	G1246	G1247	G1248	G1249	G1250	G1251	G1252	G1253	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264																																																																																																																																																																																																																																																																																															
A935	C940	G941	G942	U943	G944	G945	A946	G947	U948	G949	U950	G951	U952	G953	G954	G955	A958	A959	U960	U961	A965	G966	C967	A968	A969	C970	G971	C972	G973	A974	A975	G976	A977	A978	C979	C980	U981	U982	A983	C984	C985	A986	G987	G988	C989	G990	U991	U992	G993	A994	C995	U996	U997	G998A	G1001	G1002	G1003	A1004	C1005	C1006	G1007	C1008	G1009	G1010	U1011	G1012	G1013	A1014	A1015	A1016	G1017	G1018	G1019	G1020	G1021	G1022	G1023	G1024	G1025	G1026	C1028B	C1028C	G1029	C1030	G1031	A1032A	G1032B	G1032C	G1033	A1034	C1035	G1036	G1037	C1038	C1039	U1040	A1041	G1042	C1043	A1044	C1045	A1046	G1047	G1048	U1049	G1050	C1051	U1052	G1053	C1054	A1055	G1058	G1059	C1060	G1061	G1062	G1063	G1064	G1065	G1066	G1067	G1068	G1069	G1070	G1071	G1072	G1073	G1074	G1075	G1076	G1077	G1078	G1079	G1080	G1081	G1082	G1083	G1084	G1085	G1086	G1087	G1088	G1089	G1090	G1091	G1092	G1093	G1094	G1095	G1096	G1097	G1098	G1099	G1100	G1101	G1102	G1103	G1104	G1105	G1106	G1107	G1108	G1109	G1110	G1111	G1112	G1113	G1114	G1115	G1116	G1117	G1118	G1119	G1120	G1121	G1122	G1123	G1124	G1125	G1126	G1127	G1128	G1129	G1130	G1131	G1132	G1133	G1134	G1135	G1136	G1137	G1138	G1139	G1140	G1141	G1142	G1143	G1144	G1145	G1146	G1147	G1148	G1149	G1150	G1151	G1152	G1153	G1154	G1155	G1156	G1157	G1158	G1159	G1160	G1161	G1162	G1163	G1164	G1165	G1166	G1167	G1168	G1169	G1170	G1171	G1172	G1173	G1174	G1175	G1176	G1177	G1178	G1179	G1180	G1181	G1182	G1183	G1184	G1185	G1186	G1187	G1188	G1189	G1190	G1191	G1192	G1193	G1194	G1195	G1196	G1197	G1198	G1199	G1200	G1201	G1202	G1203	G1204	G1205	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	G1245	G1246	G1247	G1248	G1249	G1250	G1251	G1252	G1253	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264																																																																																																																																																
G769	C770	G773	G774	G775	G776	A777	G778	G779	A780	A781	G786	A790	C791	A792	U793	A794	G803	U804	C805	C806	A807	C808	G809	C810	C811	A814	A815	A816	C817	G818	G819	U820	G821	C826	U827	A828	U833	C834	U835	G836	G837	G838	U841	C842	U843	C848	C849	U850	G851	G852	G853	G854	G855	G856	G857	G858	G859	G860	G861	G862	G863	G864	G865	G866	G867	G868	G869	G870	G871	G872	G873	G874	G875	G876	G877	G878	G879	G880	G881	G882	G883	G884	G885	G886	G887	G888	G889	G890	G891	G892	G893	G894	G895	G896	G897	G898	G899	G900	G901	G902	G903	G904	G905	G906	G907	G908	G909	G910	G911	G912	G913	G914	G915	G916	G917	G918	G919	G920	G921	G922	G923	G924	G925	G926	G927	G928	G929	G930	G931	G932	G933	G934	G935	G936	G937	G938	G939	G940	G941	G942	G943	G944	G945	G946	G947	G948	G949	G950	G951	G952	G953	G954	G955	G956	G957	G958	G959	G960	G961	G962	G963	G964	G965	G966	G967	G968	G969	G970	G971	G972	G973	G974	G975	G976	G977	G978	G979	G980	G981	G982	G983	G984	G985	G986	G987	G988	G989	G990	G991	G992	G993	G994	G995	G996	G997	G998	G999	G1000	G1001	G1002	G1003	G1004	G1005	G1006	G1007	G1008	G1009	G1010	G1011	G1012	G1013	G1014	G1015	G1016	G1017	G1018	G1019	G1020	G1021	G1022	G1023	G1024	G1025	G1026	G1027	G1028	G1029	G1030	G1031	G1032	G1033	G1034	G1035	G1036	G1037	G1038	G1039	G1040	G1041	G1042	G1043	G1044	G1045	G1046	G1047	G1048	G1049	G1050	G1051	G1052	G1053	G1054	G1055	G1056	G1057	G1058	G1059	G1060	G1061	G1062	G1063	G1064	G1065	G1066	G1067	G1068	G1069	G1070	G1071	G1072	G1073	G1074	G1075	G1076	G1077	G1078	G1079	G1080	G1081	G1082	G1083	G1084	G1085	G1086	G1087	G1088	G1089	G1090	G1091	G1092	G1093	G1094	G1095	G1096	G1097	G1098	G1099	G1100	G1101	G1102	G1103	G1104	G1105	G1106	G1107	G1108	G1109	G1110	G1111	G1112	G1113	G1114	G1115	G1116	G1117	G1118	G1119	G1120	G1121	G1122	G1123	G1124	G1125	G1126	G1127	G1128	G1129	G1130	G1131	G1132	G1133	G1134	G1135	G1136	G1137	G1138	G1139	G1140	G1141	G1142	G1143	G1144	G1145	G1146	G1147	G1148	G1149	G1150	G1151	G1152	G1153	G1154	G1155	G1156	G1157	G1158	G1159	G1160	G1161	G1162	G1163	G1164	G1165	G1166	G1167	G1168	G1169	G1170	G1171	G1172	G1173	G1174	G1175	G1176	G1177	G1178	G1179	G1180	G1181	G1182	G1183	G1184	G1185	G1186	G1187	G1188	G1189	G1190	G1191	G1192	G1193	G1194	G1195	G1196	G1197	G1198	G1199	G1200	G1201	G1202	G1203	G1204	G1205	G1206	G1207	G1208	G1209	G1210	G1211	G1212	G1213	G1214	G1215	G1216	G1217	G1218	G1219	G1220	G1221	G1222	G1223	G1224	G1225	G1226	G1227	G1228	G1229	G1230	G1231	G1232	G1233	G1234	G1235	G1236	G1237	G1238	G1239	G1240	G1241	G1242	G1243	G1244	G1245	G1246	G1247	G1248	G1249	G1250	G1251	G1252	G1253	G1254	G1255	G1256	G1257	G1258	G1259	G1260	G1261	G1262	G1263	G1264
G484	G485	U486	A487	G492	G493	U494	A495	U496	U497	A498	G500	C501	G502	C503	A504	G505	C508	A509	A510	C511	U512	U516	G517	C518	C519	A523	G524	C525	C526	G527	A528	C529	U531	A532	A533	U534	A535	C536	G537	G538	A539	C540	G541	G542	G546	A547	C548	C549	U551	U552	A553	C554	C555	C556	G557	G558	A559	U561	C562	A563	C564	G567	G568	C569	G570	U571	A572	A573	A574	G575	G576	G577	C578	G579	U580	G581	U582	A583	G584	C585	C586	G587	G588	C589	G593	C596	G597	U598	C599	C600	C601	A602	U603	G604	U605	G606	A607	C613	A614	C615	G616	G617	C618	U619	C620	A621	C624	G625	U626	G627	G628	G629	G630	G631	U636	G637	A642	C643	U646	A648	G649	U652	A653	C656	G657	G658	U659	G660	G661	G662	A663	G664	A665	G666	G667	G668	U669	G670	G671	U672	G673	G674	A675	U676	U677	G683	A684	A687	G688	C689	G690	G691	U692	G693	A694	A695	A696	C701	G702	G703	A704	U705	A706	G707	G708	G709	G710	G713	G714	A715	A716	G717	C718	A719	G721	A722	G723	G724	A728	G729	C730	G731	G734	C735	C736	A737	C738	C739	U740	G741	G742	G743	C744	C745	C748	G749	A750	G751	G752	A753	C754	G755	C756	U757	G758	C759	G760	G763	G764	G765	A766	A767	A768	G769	G770	G773	G774	G775	G776	A777	G778	G779	A780	A781	G786	A790	C791	A792	U793	A794	G803	U804	C805	C806	A807	C808	G809	C810	C811	A814	A815	A816	C817	G818	G819	U820	G821	C826	U827	A828	U833	C834	U835	G836	G837	G838	U841	C842	U843	C848	C849	U850	G851	G852	G853	G854	G855</																																																																																																																																																																																																			

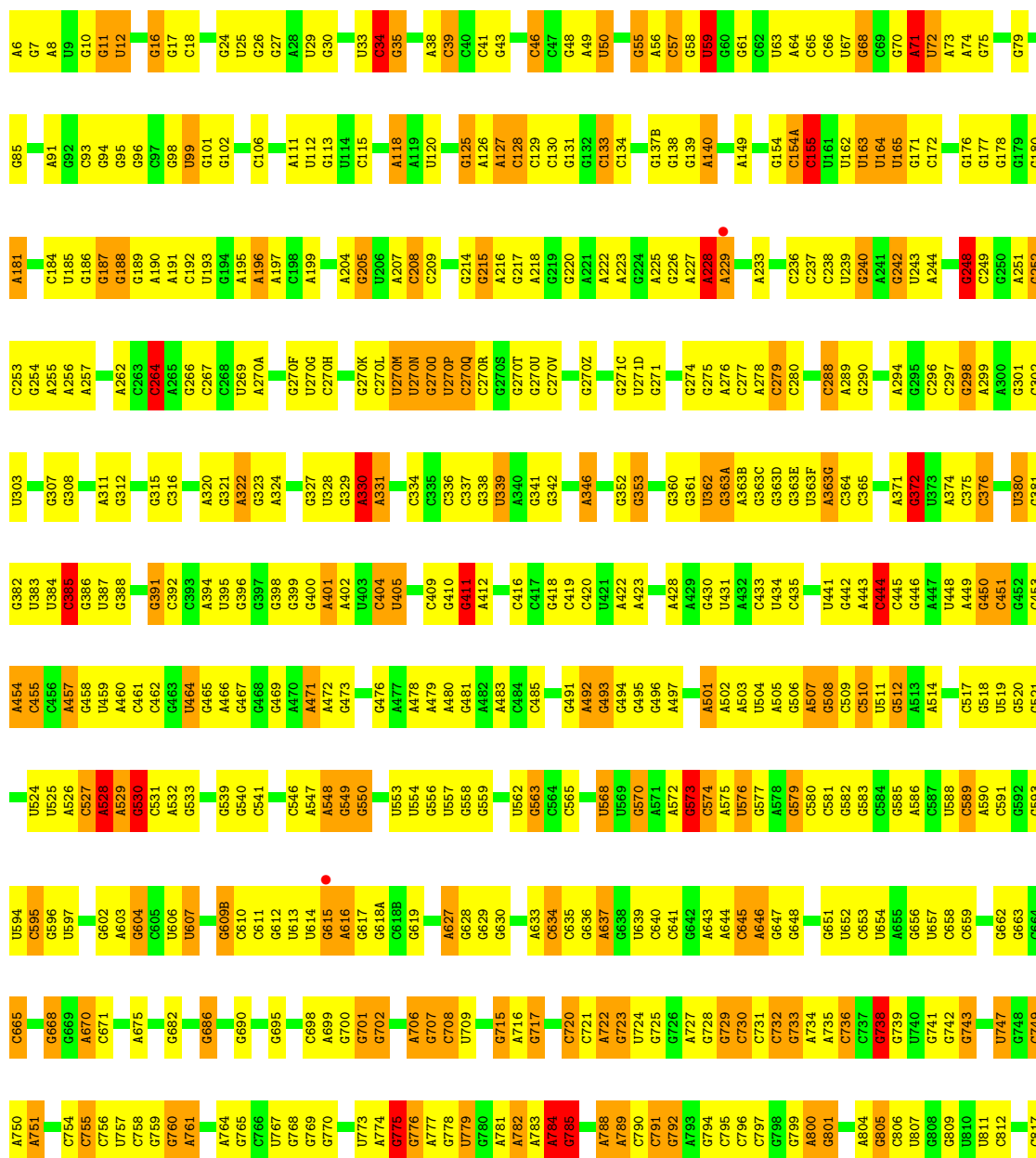
A1608	G1538	G1459	G1325	C1251	A1177	U1108	A1048	G977	A910	C844	A781	G715
A1609	G1539	A1460	U1326	G1252	C1178	C1109	C1049	G978	A911	C845	A782	A716
A1610	G1540	A1395	C1327	A1253	C1179	G1110	A1050	A980		G846	A783	G717
G1611	U1541	C1467	G1328	A1254	C1180	A1111	G1051		C914	G847	A784	G720
G1612	G1542	U1397	U1329	U1255	C1181	G1112	C1052	A983	C915	G848	C721	C720
G1613	A1543		C1330	G1256	A1182	U1113	C1053		G916	G849	C722	C721
A1614	C1544	A1471	A1331	C1257	G1183	G1114	A1054		A917	G850	A722	A722
C1615		A1472	G1332	G1258	G1184	C1115	G1055	C986	A918	G851	A788	G723
A1616	C1550	A1477	C1333	C1259	C1185	G1116	G1056		A919	G852	A789	G724
C1617	G1551	G1478	C1334		C1186	G1117	A1057	A990	G920	G853	C790	G725
A1618	G1552	G1479	U1335	U1263	G1187	C1118	G1058	A991	G921	G854	C791	G726
	A1553		A1336	A1264	U1188	C1119	G1059	C992	G922	G855	A793	A727
U1621	A1554	G1483	G1339	G1265	A1189		U1060	G993	U922	G856	G728	G728
G1622	G1555	G1484	U1340	G1266	G1190	G1122	U1061	C994	C923	C857	G729	G729
	C1556	C1407	U1341	U1267	G1191		G1062	C995	C924	C858	C730	C730
C1625	C1557	C1408	U1342	A1268		A1126	G1063	A996	C925	C859	C731	C731
G1626	A1558		A1343	A1269	C1200	A1127	C1064	A997	C926	G860	C732	C732
G1627	G1559	A1412	G1344	G1270	G1201	A1128	U1065	C998	A926	G861	G733	G733
G1628	G1560	G1413	G1345	G1271	C1202	A1129	U1066	U999	G929	G862	A734	A734
	G1561	U1414	C1346	A1272	G1203	U1130	U1067	U930	U930	C863	A735	A735
C1630B		U1415	G1347	U1273	A1204	G1131	G1068	G1002	G931	A863	A736	A736
A1631	A1566	G1416	G1348	A1274	G1205	A1132	A1069	G1003	G932	C864	C737	C737
A1632	A1567	G1417	G1349	A1275	G1206	U1133	U1070	C1004	A933	C865	G738	G738
G1633	G1568	G1418	G1348	A1276	G1207	C1135	G1071	C1005	A866	C867	A804	G739
A1634	U1497	A1419		A1278		G1136	C1072	C1006	C867	G868	G740	U740
G1635	A1570		C1351			G1137	A1073	C1007	C936	U868	G741	G741
C1636	C1571	U1352	U1352	A1286	A1210		G1074	C1008	A937	G869	G742	G742
A1637	A1572	A1353	A1353	A1287	U1211	G1138	G1075	G1009	G938	C870	G743	G743
G1638	G1573	G1424	A1354	U1288	G1212	A1139	U1076	A1010		U871	U747	U747
U1639	C1504	G1425	G1355	U1289	A1213	C1140	A1077	G1011	A941	U810	G748	G748
C1640	G1505	A1427	U1357	C1290	A1214	U1141	U1078	U1012	G942	U811	C749	C749
A1641	C1506	G1428	G1358	C1291	G1215	C1142	C1079	C1013	U943	C812	A750	A750
G1642	U1578	A1429	G1359	U1292	C1217	A1143	C1080	G1014	A945	G879	A751	A751
G1643	A1579	U1430	A1360	C1293	G1218		U1081	G1015	G946	C816	A752	A752
C1644	G1581	C1432	U1365		G1219	C1146	U1082	G1016	G947	C817		
G1647	C1582	U1433	G1364	C1297	A1220	C1147	U1083	U1019		G882	G818	G818
C1648	A1583	A1434	A1365	G1298	C1221	A1148	A1084	A1020	A853	C883	C755	C755
A1654	C1585		A1366	U1300	C1221A	G1149	A1085	A1020	G964	C884	C756	C756
	A1586	C1437	G1367	G1299	C1222	C1150	A1086	A1021	C965	C885	U757	U757
C1657	C1587	U1438	A1368	A1301		G1151	G1087	G1022	A821	C886	C758	C758
G1658	C1588	A1439	G1371	A1302	A1226	C1152	A1088	U1023	G956	C887	G759	G759
	C1589	G1440	U1372	G1303	G1227	C1153	G1089	G1024	A857	C888	G760	G760
	U1590	U1441	A1373	C1304		G1154	U1090	G1025	U958	C889	A761	A761
G1661	G1591	G1442	G1374	A1308	G1231	A1155	G1091	U1026	A959	C890	C825	C825
	C1592		C1375	G1309	G1232		C1092	A1027	A960	A890	U826	U826
A1664	G1593	A1444B	C1376	G1310	C1233	C1158	G1093	A1028	C961	G892	U827	U827
A1665	C1594	C1445	G1377	G1311	U1234	C1161	U1094	A1032	C965	C893	U828	U828
G1666	G1595	C1446	A1378	U1312	G1235	G1162	A1095	U1033	C966	C894	A829	A829
A1669	A1596	G1447	A1379	U1313			U1097	U1033	C967	U895	G830	G830
C1670	C1597	G1448	G1380	C1314	U1240	C1166	A1098	G1038	C968	C897	G831	G831
U1671	G1598	A1449B	G1381	C1315	A1241	U1167	G1099	G1039	U969	C898	G832	G832
C1672	C1599	G1449	G1382	U1316	A1242	G1168	C1100	C1040	C899	C899	U833	U833
		C1450	C1383	A1317	G1244	G1169	U1101	C1041	C970	A890	C834	C834
U1673	U1602	C1451	A1384		G1245	G1170	C1102	G1042	C971	A901	A835	A835
G1674	C1603	A1453	G1385	C1320	A1246	G1171	C1103	C1043	G972	G836	G836	G836
C1675	G1604	U1454	C1386	A1321	A1247	G1173	A1104	G1044	A973	C902	C837	C837
	C1605	G1455	C1387	A1322	G1248	G1174	C1105	G1045	C974A	C903	C838	C838
U1680	G1606	A1536	U1323	U1322	U1249	A1175	G1106	A1046	G974B	G906	U839	U839
G1681	C1607	C1458	G1389	G1324	G1250	G1176	G1107	A1047	C976	U907	G778	G778
											U779	U779
											G780	G780

U2647	C2648	U2649	U2650	A2657	C2658	C2659	C2660	A2660	C2661	A2662	C2663	C2666	C2667	C2674	C2675	C2676	C2677	C2680	C2681	C2682	C2683	U2684	C2685	C2686	C2687	U2688	U2689	C2690	C2691	C2695	U2696	C2697	U2698	C2699	C2700	C2701	U2702	C2703	C2704	A2705	A2711	U2712	A2712A	A2713	C2714	C2715	C2716	C2717	C2718	C2719	C2722	C2723	C2724																																																																																																																																																																																																																																																																																														
G2576	A2577	C2578	C2579	U2580	C2581	U2585	C2586	A2587	C2588	A2589	C2589	U2590	C2591	C2592	U2593	C2594	C2595	U2596	C2597	U2598	C2599	C2600	C2601	C2602	U2603	U2604	C2605	C2606	C2607	C2608	C2609	C2610	U2611	C2612	U2613	A2614	U2615	C2616	C2617	C2618	C2619	C2622	C2623	C2626	C2627	C2628	A2629	C2630	C2631	C2632	C2633	A2634	C2635	C2636	C2637	A2638	C2639	C2640	C2641	C2646																																																																																																																																																																																																																																																																																							
U2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522	C2523	C2524	C2525	C2526	C2527	C2528	U2529	A2530	C2531	C2532	C2533	C2534	C2535	C2536	C2537	C2538	C2539	C2540	C2541	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	C2551	C2552	C2553	C2554	C2555	C2556	C2557	C2558	C2559	C2560	C2561	C2562	C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	C2573	C2574	C2575																																																																																																																																																																																																																																																																														
U2431	A2432	A2433	A2434	A2435	A2436	U2437	U2438	A2439	A2440	C2441	C2442	C2443	C2444	C2445	C2446	A2447	A2448	U2449	A2450	A2451	C2452	C2453	C2454	C2455	C2456	C2457	C2458	C2459	C2460	C2461	C2462	C2463	C2464	C2465	C2466	C2467	C2468	C2469	C2470	C2471	C2472	C2473	C2474	C2475	C2476	C2477	C2478	C2479	C2480	C2481	C2482	C2483	C2484	C2485	C2486	C2487	C2488	C2489	C2490	U2491	U2492	U2493	C2494	C2495	C2496	C2497	C2498	C2499	C2500	C2501	C2502	C2503	C2504	C2505	C2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522	C2523	C2524	C2525	C2526	C2527	C2528	C2529	C2530	C2531	C2532	C2533	C2534	C2535	C2536	C2537	C2538	C2539	C2540	C2541	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	C2551	C2552	C2553	C2554	C2555	C2556	C2557	C2558	C2559	C2560	C2561	C2562	C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	C2573	C2574	C2575																																																																																																																																																																																																			
U2360	A2361	C2362	C2363	C2364	C2365	A2366	A2367	C2368	C2369	C2370	C2371	C2372	C2373	C2374	C2375	A2376	A2377	C2378	C2379	C2380	C2381	C2382	C2383	C2384	C2385	C2386	U2387	C2388	C2389	C2390	C2391	C2392	C2393	C2394	C2395	C2396	C2397	C2398	C2399	C2400	U2401	C2402	C2403	C2404	C2405	C2406	C2407	U2408	C2409	C2410	C2411	C2412	C2413	C2414	C2415	C2416	C2417	C2418	C2419	C2420	C2421	C2422	C2423	C2424	C2425	A2426	C2427	C2428	C2429	C2430	C2431	C2432	C2433	C2434	C2435	C2436	C2437	C2438	C2439	C2440	C2441	C2442	C2443	C2444	C2445	C2446	C2447	C2448	C2449	C2450	C2451	C2452	C2453	C2454	C2455	C2456	C2457	C2458	C2459	C2460	C2461	C2462	C2463	C2464	C2465	C2466	C2467	C2468	C2469	C2470	C2471	C2472	C2473	C2474	C2475	C2476	C2477	C2478	C2479	C2480	C2481	C2482	C2483	C2484	C2485	C2486	C2487	C2488	C2489	C2490	U2491	U2492	U2493	C2494	C2495	C2496	C2497	C2498	C2499	C2500	C2501	C2502	C2503	C2504	C2505	C2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522	C2523	C2524	C2525	C2526	C2527	C2528	C2529	C2530	C2531	C2532	C2533	C2534	C2535	C2536	C2537	C2538	C2539	C2540	C2541	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	C2551	C2552	C2553	C2554	C2555	C2556	C2557	C2558	C2559	C2560	C2561	C2562	C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	C2573	C2574	C2575																																																																																																																												
U2306	A2307	C2308	C2309	C2310	C2311	C2312	C2313	C2314	C2315	C2316	C2317	C2318	C2319	C2320	C2321	C2322	C2323	C2324	C2325	C2326	C2327	C2328	C2329	C2330	C2331	C2332	C2333	C2334	C2335	C2336	C2337	C2338	C2339	C2340	C2341	C2342	C2343	C2344	C2345	C2346	C2347	C2348	C2349	C2350	C2351	C2352	C2353	C2354	C2355	C2356	C2357	C2358	C2359	C2360	C2361	C2362	C2363	C2364	C2365	C2366	C2367	C2368	C2369	C2370	C2371	C2372	C2373	C2374	C2375	C2376	C2377	C2378	C2379	C2380	C2381	C2382	C2383	C2384	C2385	C2386	C2387	C2388	C2389	C2390	C2391	C2392	C2393	C2394	C2395	C2396	C2397	C2398	C2399	C2400	C2401	C2402	C2403	C2404	C2405	C2406	C2407	C2408	C2409	C2410	C2411	C2412	C2413	C2414	C2415	C2416	C2417	C2418	C2419	C2420	C2421	C2422	C2423	C2424	C2425	C2426	C2427	C2428	C2429	C2430	C2431	C2432	C2433	C2434	C2435	C2436	C2437	C2438	C2439	C2440	C2441	C2442	C2443	C2444	C2445	C2446	C2447	C2448	C2449	C2450	C2451	C2452	C2453	C2454	C2455	C2456	C2457	C2458	C2459	C2460	C2461	C2462	C2463	C2464	C2465	C2466	C2467	C2468	C2469	C2470	C2471	C2472	C2473	C2474	C2475	C2476	C2477	C2478	C2479	C2480	C2481	C2482	C2483	C2484	C2485	C2486	C2487	C2488	C2489	C2490	U2491	U2492	U2493	C2494	C2495	C2496	C2497	C2498	C2499	C2500	C2501	C2502	C2503	C2504	C2505	C2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522	C2523	C2524	C2525	C2526	C2527	C2528	C2529	C2530	C2531	C2532	C2533	C2534	C2535	C2536	C2537	C2538	C2539	C2540	C2541	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	C2551	C2552	C2553	C2554	C2555	C2556	C2557	C2558	C2559	C2560	C2561	C2562	C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	C2573	C2574	C2575																																																																						
U2236	A2237	C2238	C2239	C2240	A2241	C2242	U2243	C2244	C2245	C2246	C2247	C2248	C2249	C2250	C2251	C2252	C2253	C2254	C2255	C2256	C2257	C2258	C2259	C2260	C2261	C2262	C2263	C2264	C2265	C2266	C2267	C2268	C2269	C2270	C2271	C2272	C2273	C2274	C2275	C2276	C2277	C2278	C2279	C2280	C2281	C2282	C2283	C2284	C2285	C2286	C2287	C2288	C2289	C2290	C2291	C2292	C2293	C2294	C2295	C2296	C2297	C2298	C2299	C2300	C2301	C2302	C2303	C2304	C2305	C2306	C2307	C2308	C2309	C2310	C2311	C2312	C2313	C2314	C2315	C2316	C2317	C2318	C2319	C2320	C2321	C2322	C2323	C2324	C2325	C2326	C2327	C2328	C2329	C2330	C2331	C2332	C2333	C2334	C2335	C2336	C2337	C2338	C2339	C2340	C2341	C2342	C2343	C2344	C2345	C2346	C2347	C2348	C2349	C2350	C2351	C2352	C2353	C2354	C2355	C2356	C2357	C2358	C2359	C2360	C2361	C2362	C2363	C2364	C2365	C2366	C2367	C2368	C2369	C2370	C2371	C2372	C2373	C2374	C2375	C2376	C2377	C2378	C2379	C2380	C2381	C2382	C2383	C2384	C2385	C2386	C2387	C2388	C2389	C2390	C2391	C2392	C2393	C2394	C2395	C2396	C2397	C2398	C2399	C2400	C2401	C2402	C2403	C2404	C2405	C2406	C2407	C2408	C2409	C2410	C2411	C2412	C2413	C2414	C2415	C2416	C2417	C2418	C2419	C2420	C2421	C2422	C2423	C2424	C2425	C2426	C2427	C2428	C2429	C2430	C2431	C2432	C2433	C2434	C2435	C2436	C2437	C2438	C2439	C2440	C2441	C2442	C2443	C2444	C2445	C2446	C2447	C2448	C2449	C2450	C2451	C2452	C2453	C2454	C2455	C2456	C2457	C2458	C2459	C2460	C2461	C2462	C2463	C2464	C2465	C2466	C2467	C2468	C2469	C2470	C2471	C2472	C2473	C2474	C2475	C2476	C2477	C2478	C2479	C2480	C2481	C2482	C2483	C2484	C2485	C2486	C2487	C2488	C2489	C2490	U2491	U2492	U2493	C2494	C2495	C2496	C2497	C2498	C2499	C2500	C2501	C2502	C2503	C2504	C2505	C2506	C2507	C2508	C2509	C2510	C2511	C2512	C2513	C2514	C2515	C2516	C2517	C2518	C2519	C2520	C2521	C2522	C2523	C2524	C2525	C2526	C2527	C2528	C2529	C2530	C2531	C2532	C2533	C2534	C2535	C2536	C2537	C2538	C2539	C2540	C2541	C2542	C2543	C2544	C2545	C2546	C2547	C2548	C2549	C2550	C2551	C2552	C2553	C2554	C2555	C2556	C2557	C2558	C2559	C2560	C2561	C2562	C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	C2573	C2574	C2575
U2161	A2162	C2163	C2164	C2165	C2166	C2167	C2168	C2169	C2170	C2171	C2172	C2173	C2174	C2175	C2176	C2177	C2178	C2179	C2180	C2181	C2182	C2183	C2184	C2185	C2186	C2187	C2188	C2189	C2190	C2191	C2192	C2193	C2194	C2195	C2196	C2197	C2198	C2199	C2200	C2201	C2202	C2203	C2204	C2205	C2206	C2207	C2208	C2209	C2210	C2211	C2212	C2213	C2214	C2215	C2216	C2217	C2218	C2219	C2220	C2221	C2222	C2223	C2224	C2225	C2226	C2227	C2228	C2229	C2230	C2231	C2232	C2233	C2234	C2235	C2236	C2237	C2238	C2239	C2240	C2241	C2242	C2243	C2244	C2245	C2246	C2247	C2248	C2249	C2250	C2251	C2252	C2253	C2254	C2255	C2256	C2257	C2258	C2259	C2260	C2261	C2262	C2263	C2264	C2265	C2266	C2267	C2268	C2269	C2270	C2271	C2272	C2273	C2274	C2275	C2276	C2277	C2278	C2279	C2280	C2281	C2282	C2283	C2284	C2285	C2286	C2287	C2288	C2289	C2290	C2291	C2292	C2293	C2294	C2295	C2296	C2297	C2298	C2299	C2300	C2301	C2302	C2303	C2304	C2305	C2306	C2307	C2308	C2309	C2310	C2311	C2312	C2313	C2314	C2315	C2316	C2317	C2318	C2319	C2320	C2321	C2322	C2323	C2324	C2325	C2326	C2327	C2328	C2329	C2330	C2331	C2332	C2333	C2334	C2335	C2336	C2337	C2338	C2339	C2340	C2341	C2342	C2343	C2344	C2345	C2346	C2347	C2348	C2349	C2350	C2351	C2352	C2353	C2354	C2355	C2356	C2357	C2358	C2359	C2360	C2361	C2362	C2363	C2364	C2365	C2366	C2367	C2368	C2369	C2370	C2371																																																																																																																																	

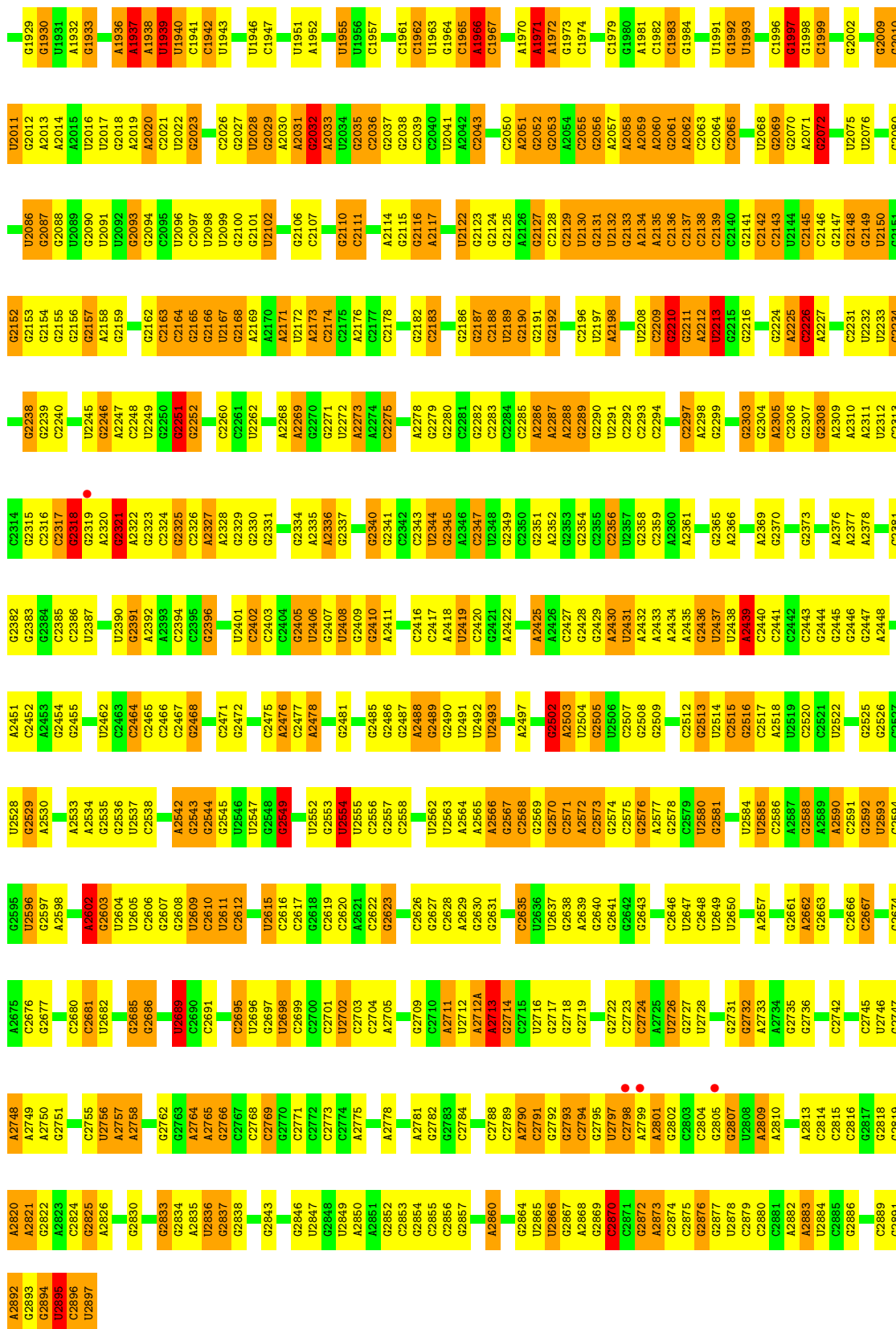


• Molecule 2: 23S ribosomal RNA

Chain GB: 37% 43% 18%

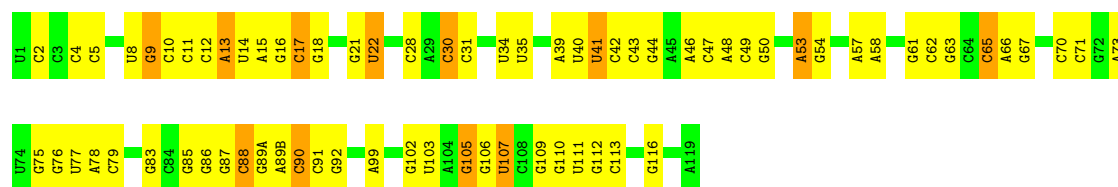


WORLDWIDE
PDB
PROTEIN DATA BANK



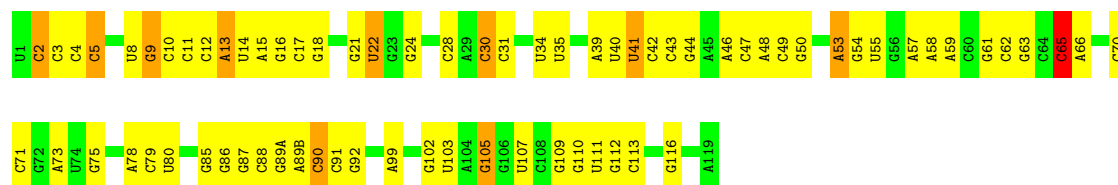
- Molecule 3: 5S ribosomal RNA

Chain C: 



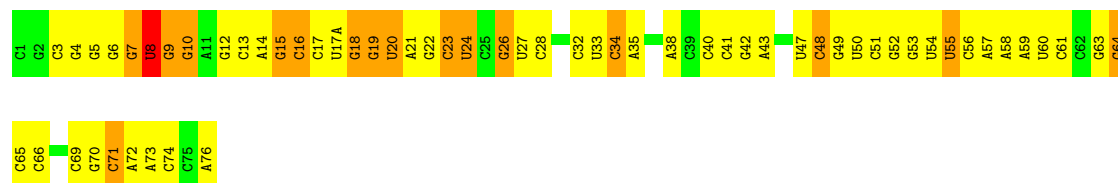
• Molecule 3: 5S ribosomal RNA

Chain HB: 



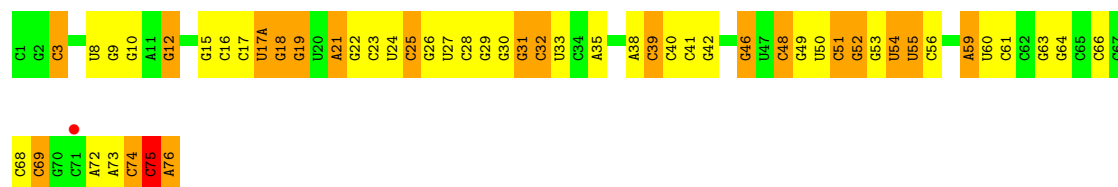
• Molecule 4: tRNA

Chain D: 



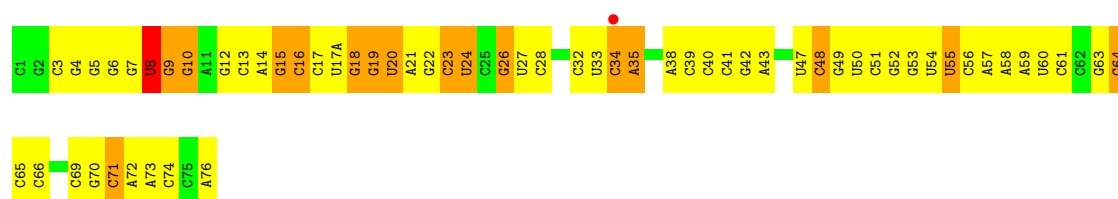
• Molecule 4: tRNA

Chain IA: 



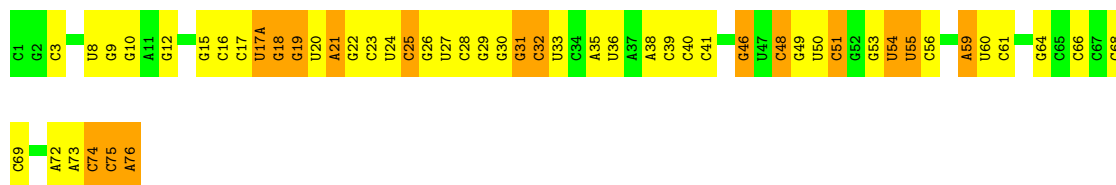
• Molecule 4: tRNA

Chain IB: 



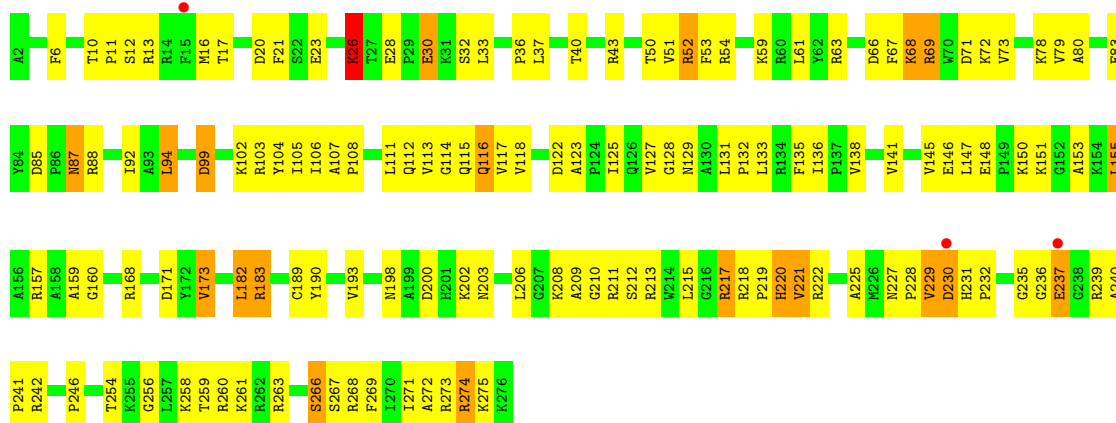
• Molecule 4: tRNA

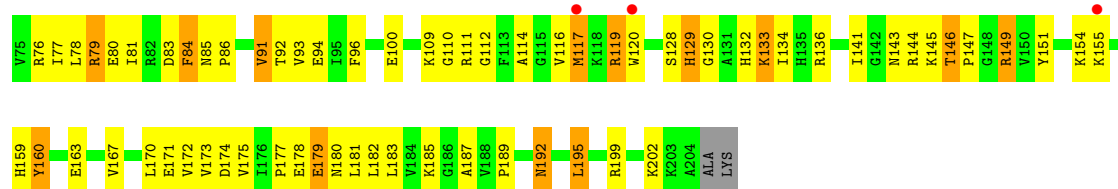
Chain NC:  32% 47% 21%



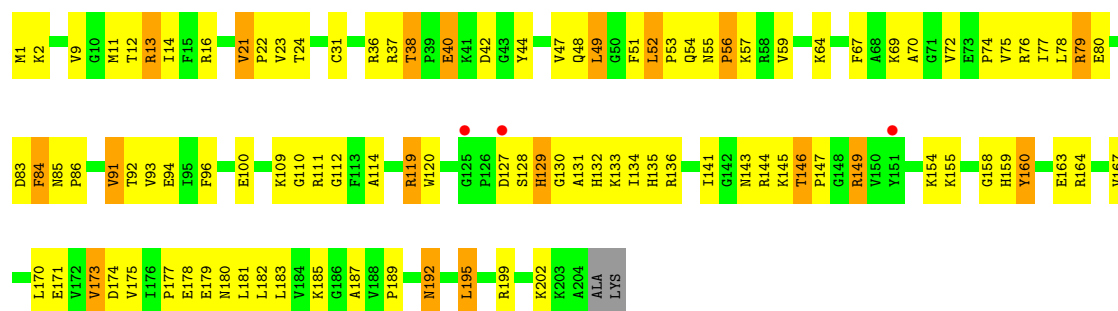
• Molecule 5: 50S ribosomal protein L2

Chain E:  49% 43% 7%

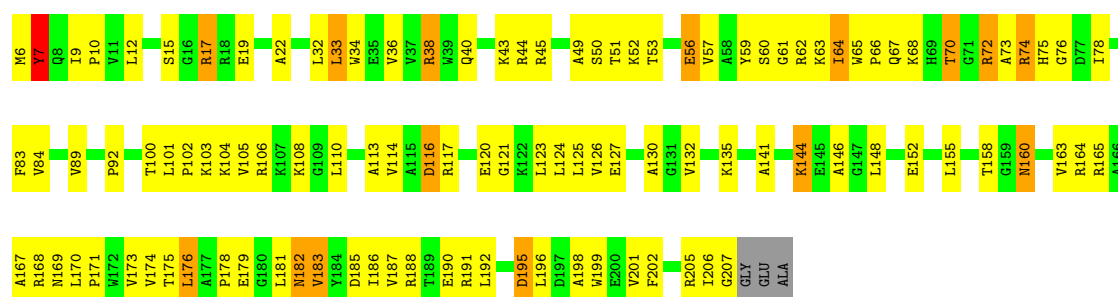




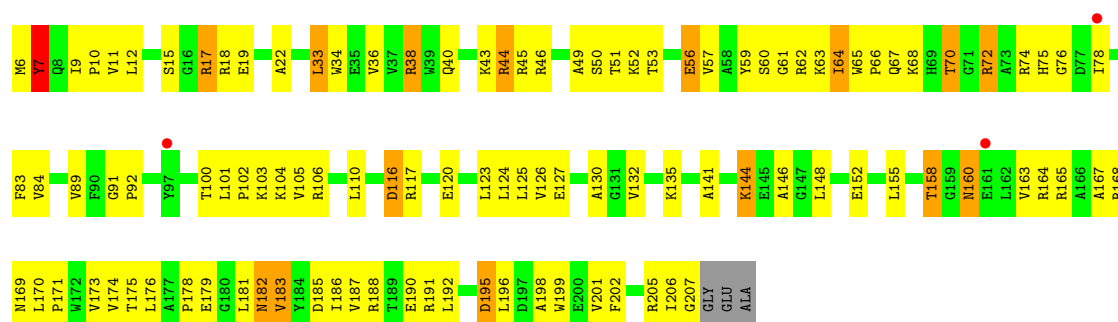
• Molecule 6: 50S ribosomal protein L3



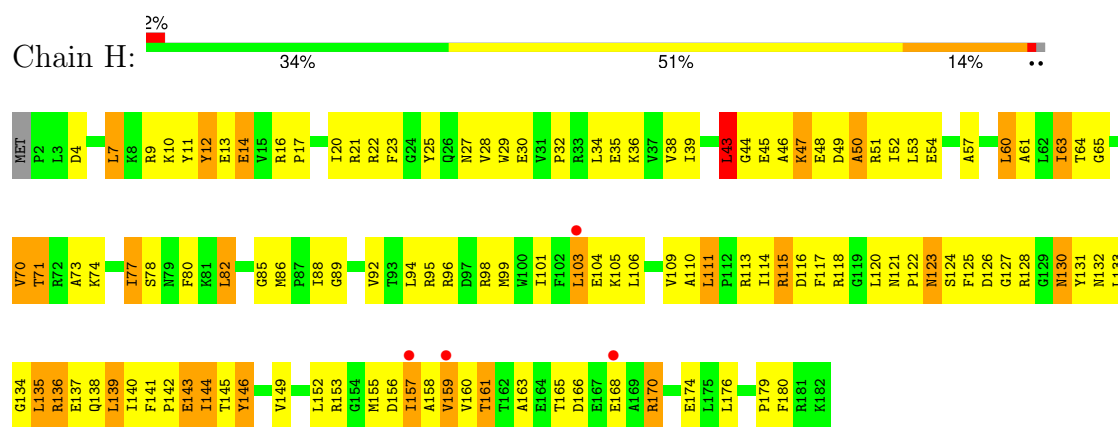
• Molecule 7: 50S ribosomal protein L4



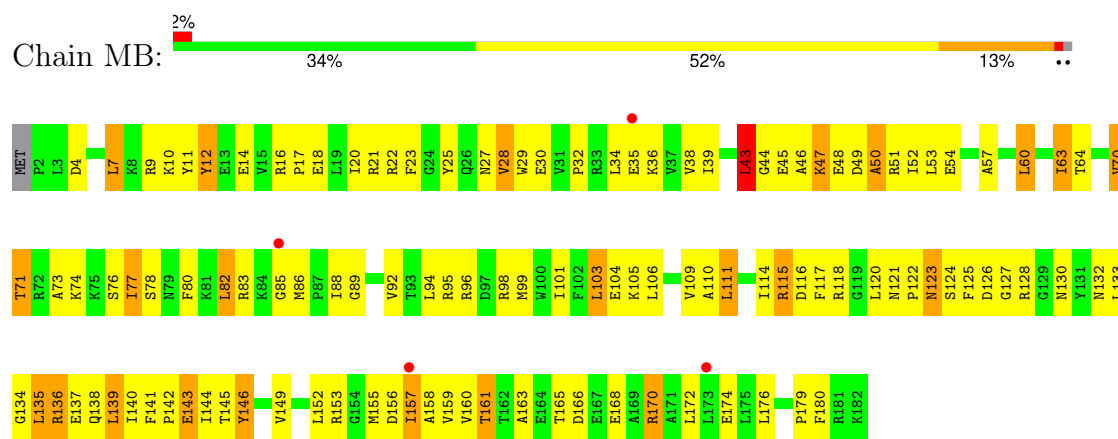
• Molecule 7: 50S ribosomal protein L4



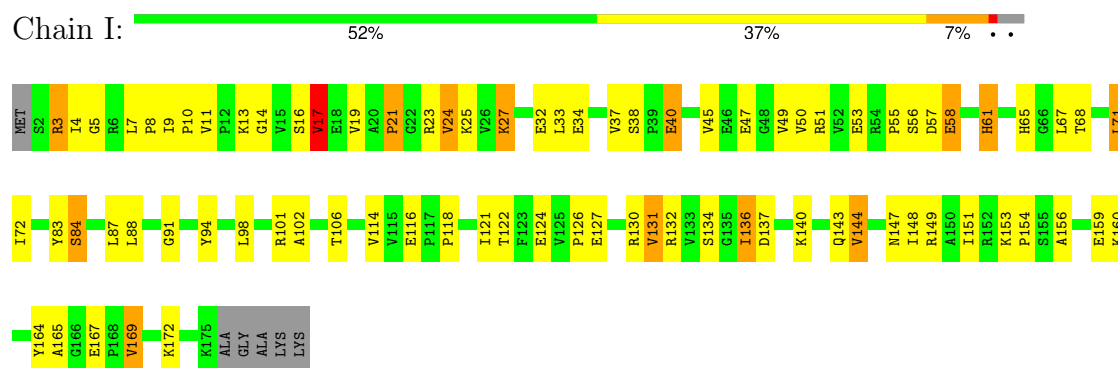
• Molecule 8: 50S ribosomal protein L5



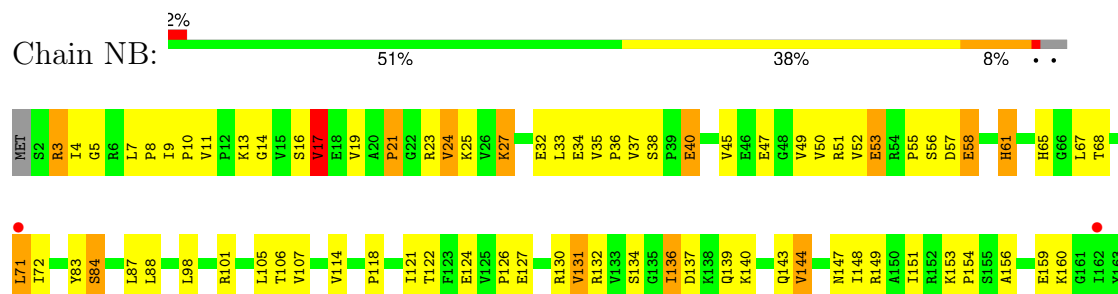
- Molecule 8: 50S ribosomal protein L5



- Molecule 9: 50S ribosomal protein L6



- Molecule 9: 50S ribosomal protein L6





- Molecule 10: 50S ribosomal protein L9

Chain J: 41% 44% 14% ..



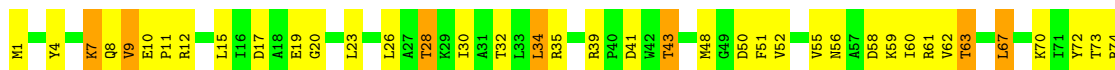
- Molecule 10: 50S ribosomal protein L9

Chain OB: 2% 42% 45% 11% .



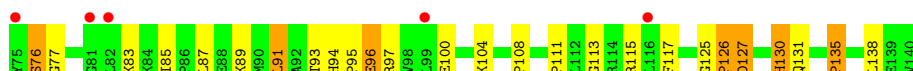
- Molecule 11: 50S ribosomal protein L13

Chain K: 49% 41% 9%

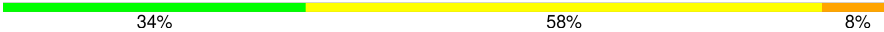


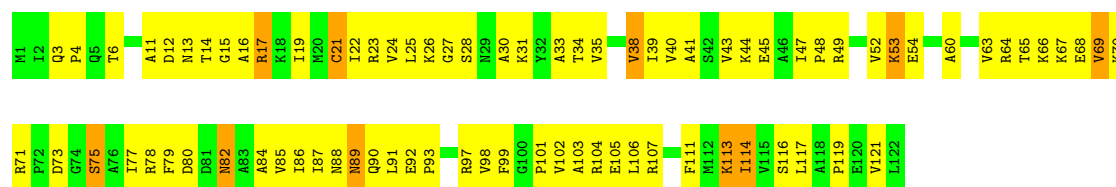
- Molecule 11: 50S ribosomal protein L13

Chain PB: 4% 54% 37% 9%

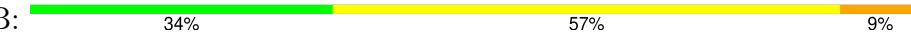


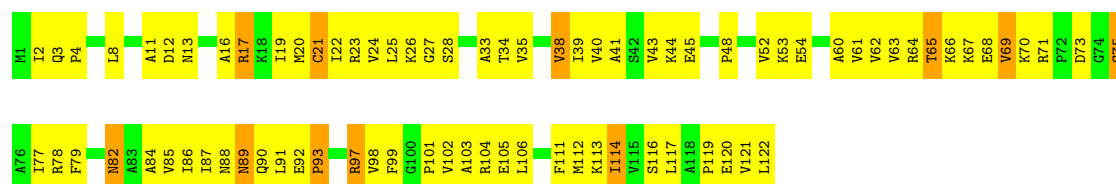
- Molecule 12: 50S ribosomal protein L14

Chain L: 



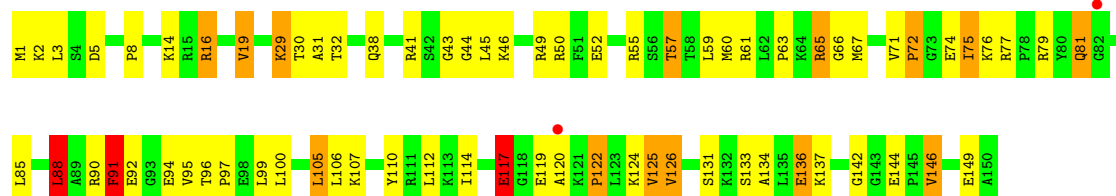
• Molecule 12: 50S ribosomal protein L14

Chain QB: 



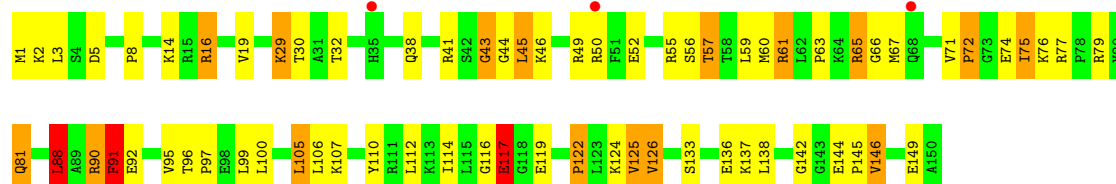
• Molecule 13: 50S ribosomal protein L15

Chain M: 



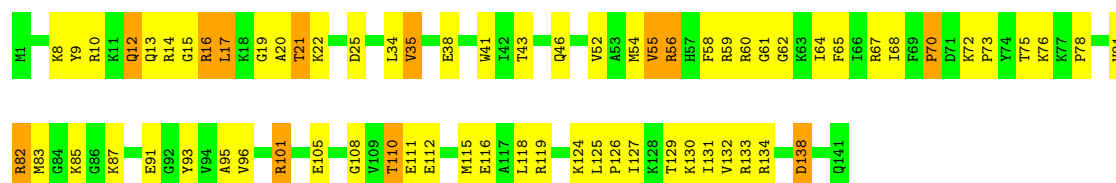
• Molecule 13: 50S ribosomal protein L15

Chain RB: 



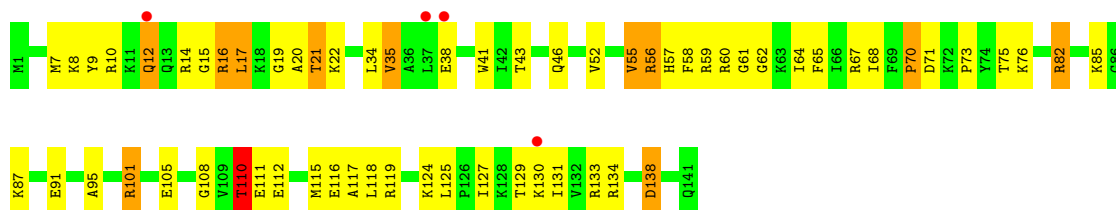
• Molecule 14: 50S ribosomal protein L16

Chain N: 



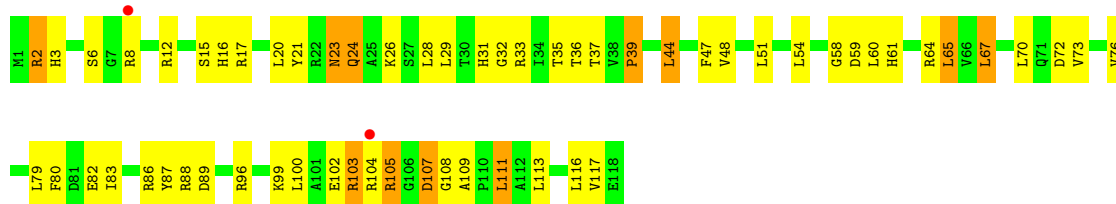
- Molecule 14: 50S ribosomal protein L16

Chain SB: 



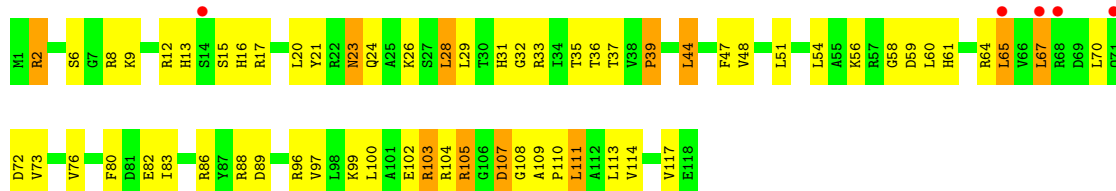
- Molecule 15: 50S ribosomal protein L17

Chain O: 



- Molecule 15: 50S ribosomal protein L17

Chain TB: 



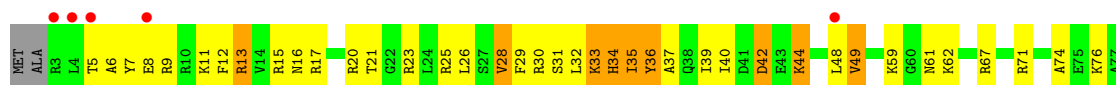
- Molecule 16: 50S ribosomal protein L18

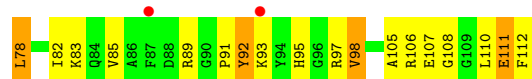
Chain P: 



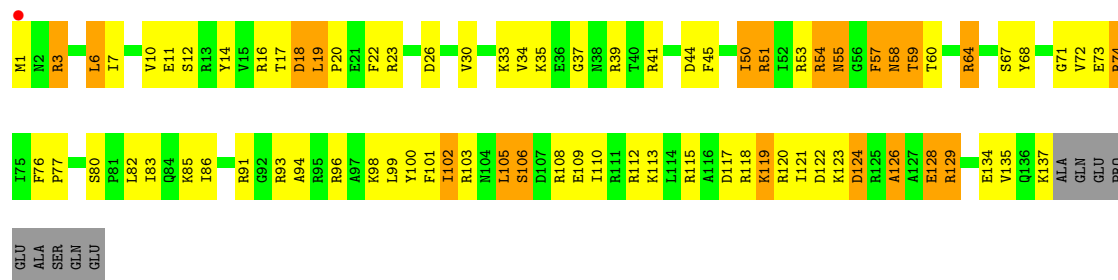
- Molecule 16: 50S ribosomal protein L18

Chain UB: 

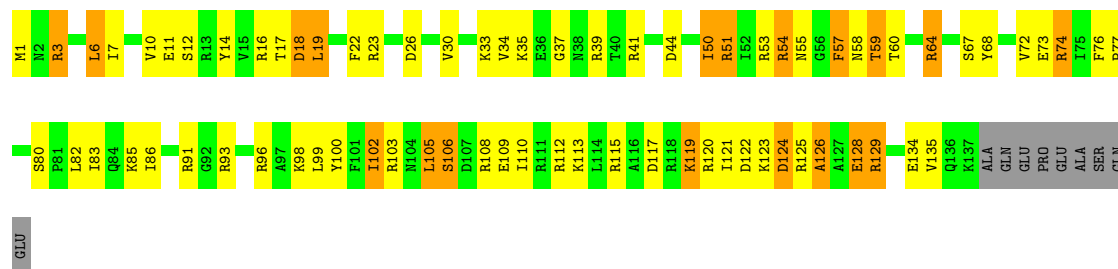




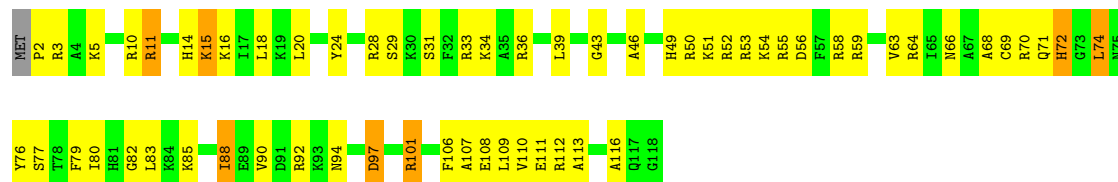
• Molecule 17: 50S ribosomal protein L19



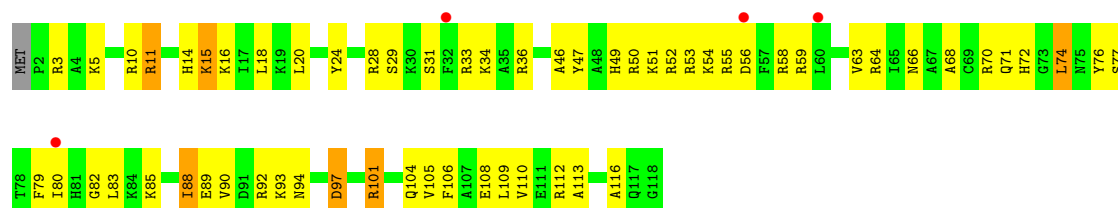
• Molecule 17: 50S ribosomal protein L19



• Molecule 18: 50S ribosomal protein L20



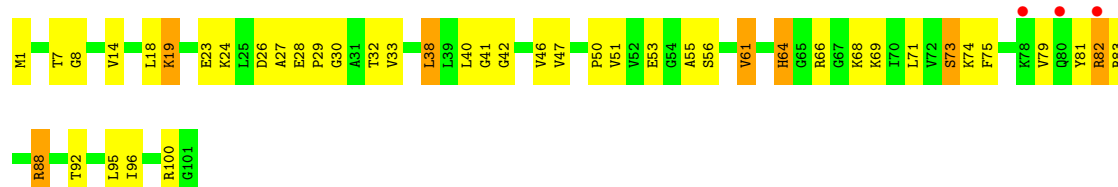
• Molecule 18: 50S ribosomal protein L20



- Molecule 19: 50S ribosomal protein L21



- Molecule 19: 50S ribosomal protein L21



- Molecule 20: 50S ribosomal protein L22



- Molecule 20: 50S ribosomal protein L22

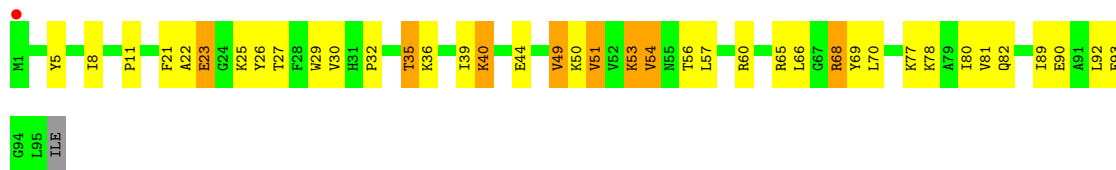


- Molecule 21: 50S ribosomal protein L23

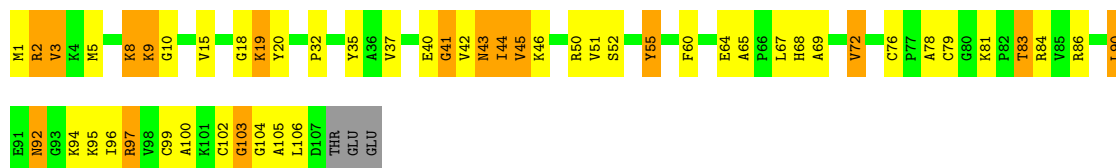




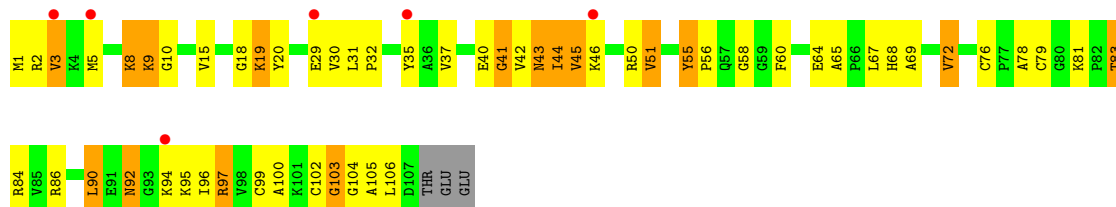
- Molecule 21: 50S ribosomal protein L23



- Molecule 22: 50S ribosomal protein L24



- Molecule 22: 50S ribosomal protein L24

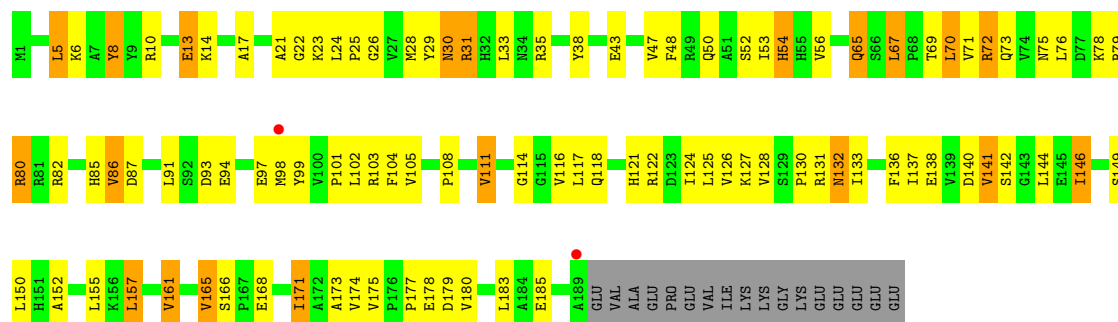


- Molecule 23: 50S ribosomal protein L25

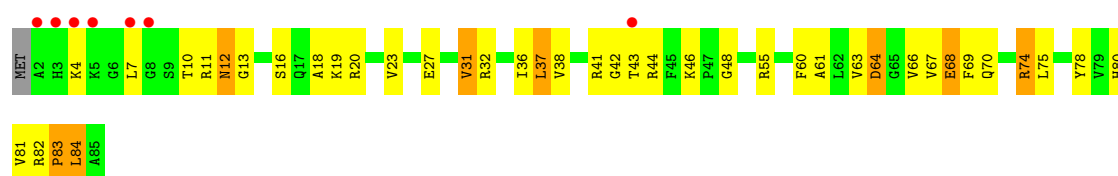


- Molecule 23: 50S ribosomal protein L25

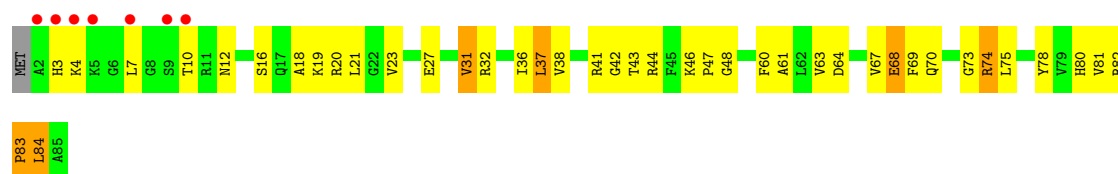




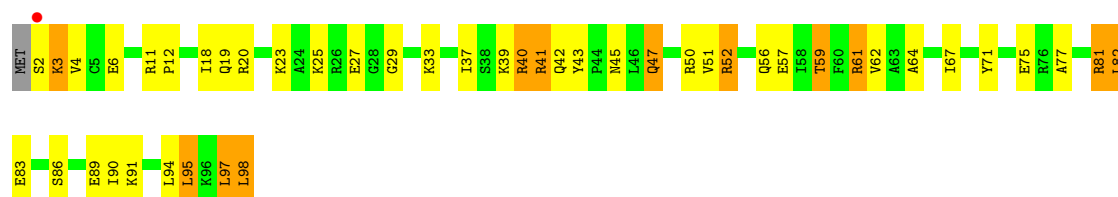
• Molecule 24: 50S ribosomal protein L27



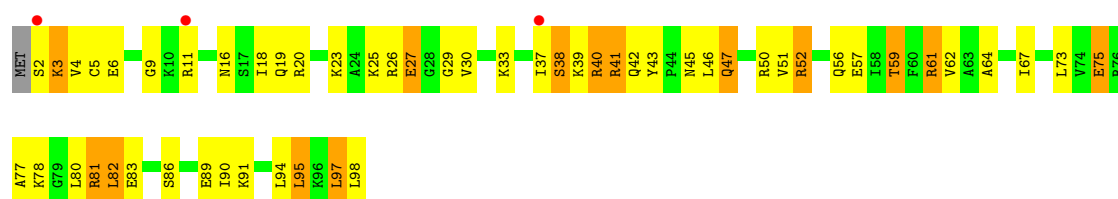
• Molecule 24: 50S ribosomal protein L27



• Molecule 25: 50S ribosomal protein L28



• Molecule 25: 50S ribosomal protein L28



- Molecule 26: 50S ribosomal protein L29

Chain Z: 



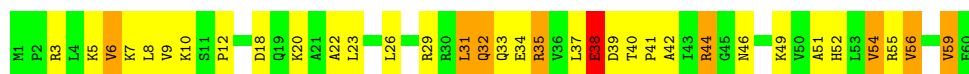
- Molecule 26: 50S ribosomal protein L29

Chain EC: 



- Molecule 27: 50S ribosomal protein L30

Chain AA: 



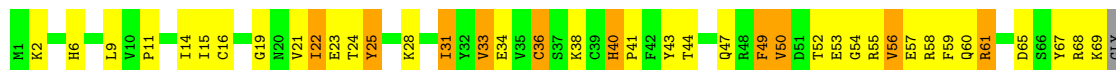
- Molecule 27: 50S ribosomal protein L30

Chain FC: 



- Molecule 28: 50S ribosomal protein L31

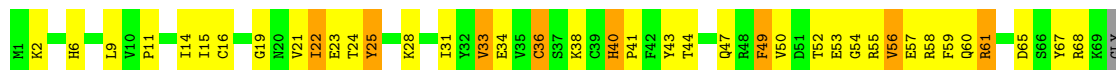
Chain BA: 



ARG

- Molecule 28: 50S ribosomal protein L31

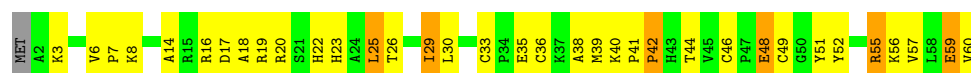
Chain GC: 




ARG

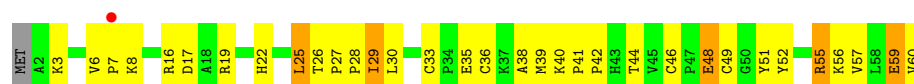
- Molecule 29: 50S ribosomal protein L32

Chain CA: 



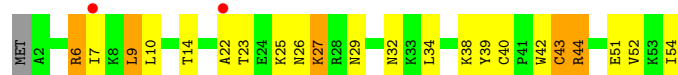
- Molecule 29: 50S ribosomal protein L32

Chain HC: 



- Molecule 30: 50S ribosomal protein L33

Chain DA: 



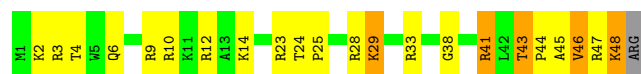
- Molecule 30: 50S ribosomal protein L33

Chain IC: 



- Molecule 31: 50S ribosomal protein L34

Chain EA: 



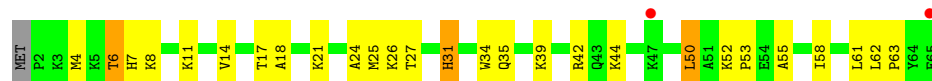
- Molecule 31: 50S ribosomal protein L34

Chain JC: 



- Molecule 32: 50S ribosomal protein L35

Chain FA: 



- Molecule 32: 50S ribosomal protein L35

Chain KC:  58% 35% 5%



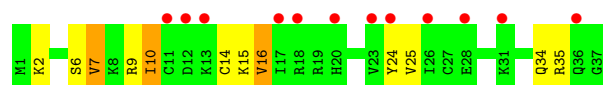
- Molecule 33: 50S ribosomal protein L36

Chain GA:  46% 65% 27% 8%




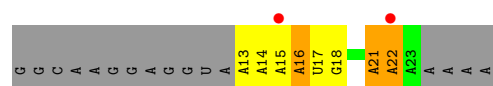
- Molecule 33: 50S ribosomal protein L36

Chain LC:  32% 68% 24% 8%



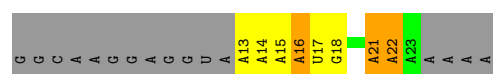
- Molecule 34: mRNA

Chain HA:  7% 11% 19% 11% 59%



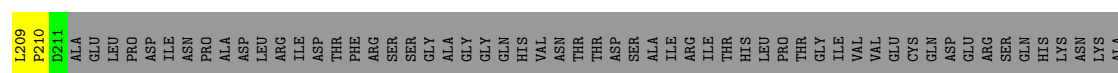
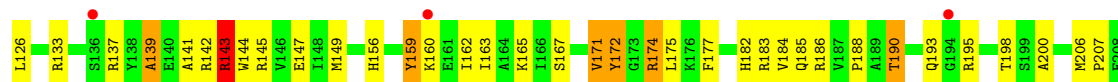
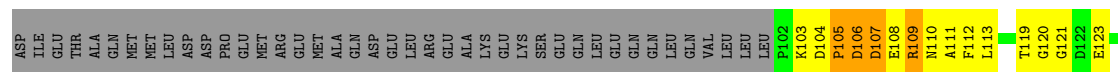
- Molecule 34: mRNA

Chain MC:  11% 19% 11% 59%



- Molecule 35: Peptide chain release factor 1

Chain JA:  16% 12% 70%



LYS	ALA	GLY	LEU	SER	GLY	LEU	LEU	GLY	ALA	ARG	ILE	HIS	ALA	ALA	GLU	MET	GLN	LYS	GLN	ALA	GLN	GLN	GLN	ALA	GLN	GLU	ALA	ALA	ALA	GLY	SER	ARG	ARG	ASN	LEU	LEU	GLY	GLY	SER	HIS	HIS	HIS	HIS	HIS	HIS
VAL	MET	GLU	GLY	LYS	LEU	ASP	MET	LEU	ILE	PRO	ILE	PRO	ILE	ILE	ILE	GLN	HIS	GLN	GLN	ASP	GLN	ALA	GLN	ALA	GLN	LEU	ALA	ALA	ALA	LEU	SER	GLU	GLN	GLY	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS	HIS

● Molecule 35: Peptide chain release factor 1



1	D305	GLY	ASP	HIS	GLY	GLY	ASP	ILE	GLY	ASP	GLY	ASP	ILE	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP	GLY	ASP
---	------	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

● Molecule 35: Peptide chain release factor 1



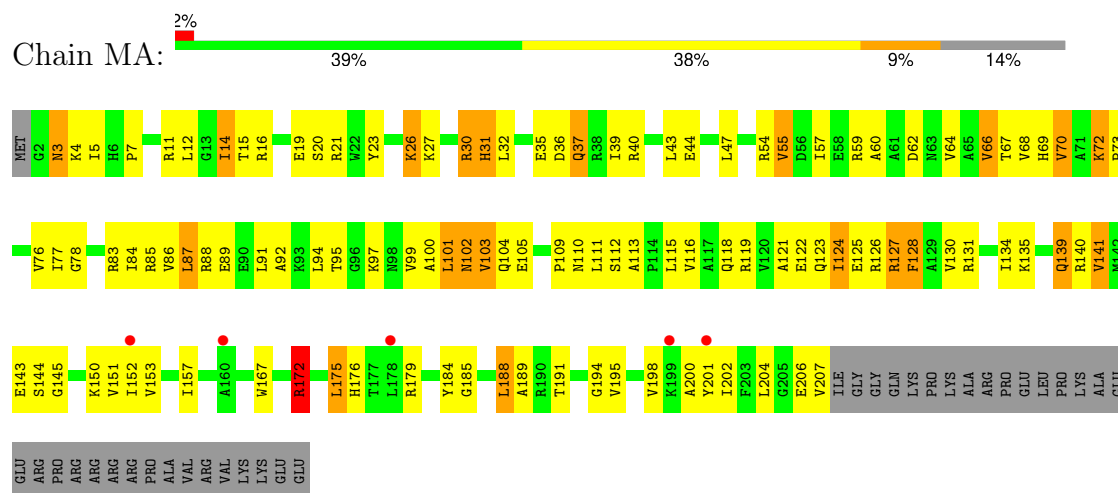
ASP	GLU	VAL	MET	GLU	GLY	LEU	LEU	GLY	ASP	MET	ILE	LEU	GLU	PRO	ILE	GLU	ALA	ILE	GLN	ALA	ASP	GLN	ALA	LEU	LEU	GLU	GLU	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GLY	GL
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	----

● Molecule 35: Peptide chain release factor 1

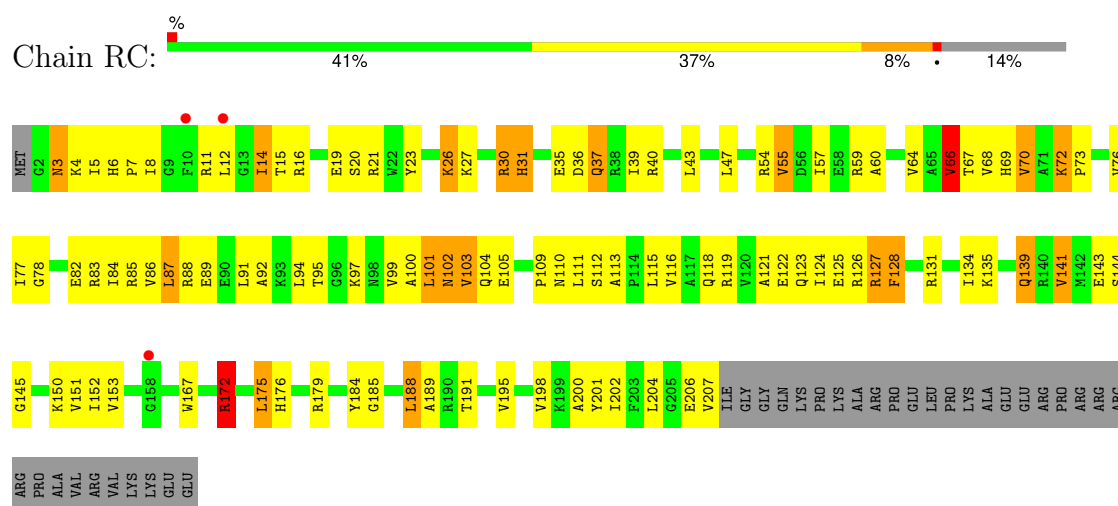




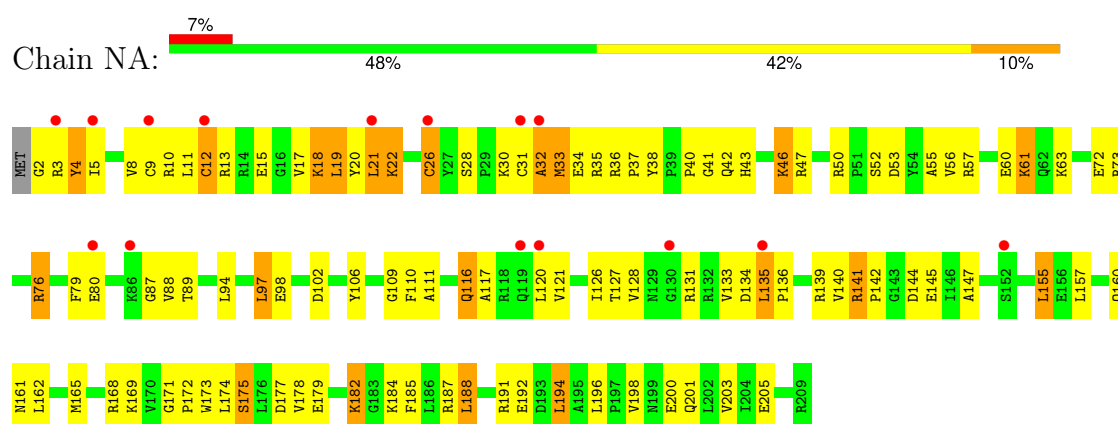
- Molecule 37: 30S ribosomal protein S3



- Molecule 37: 30S ribosomal protein S3

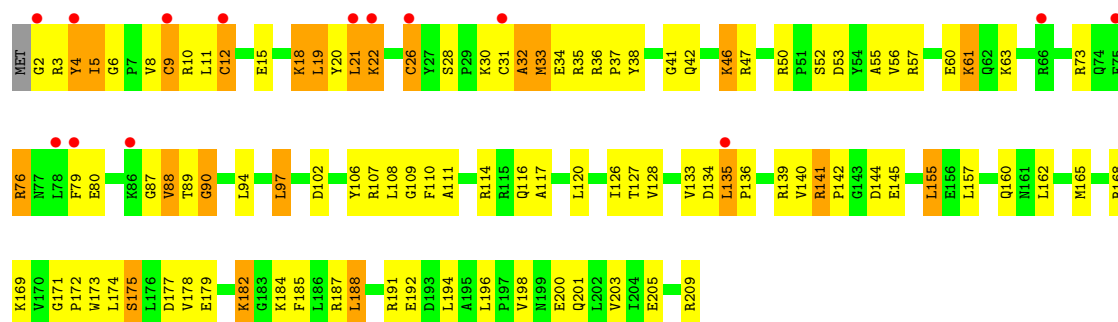


- Molecule 38: 50S ribosomal protein S4

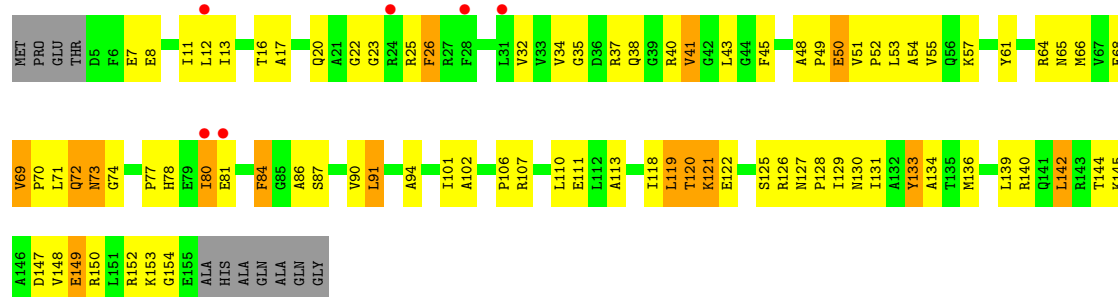
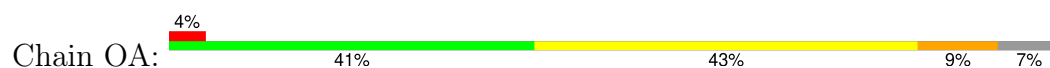


- Molecule 38: 50S ribosomal protein S4

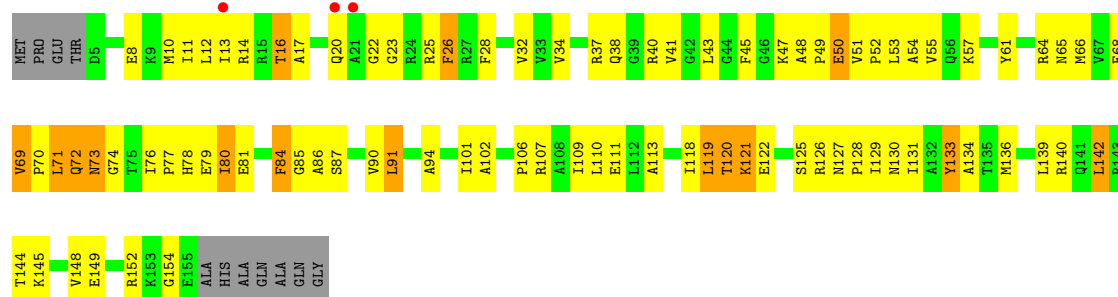




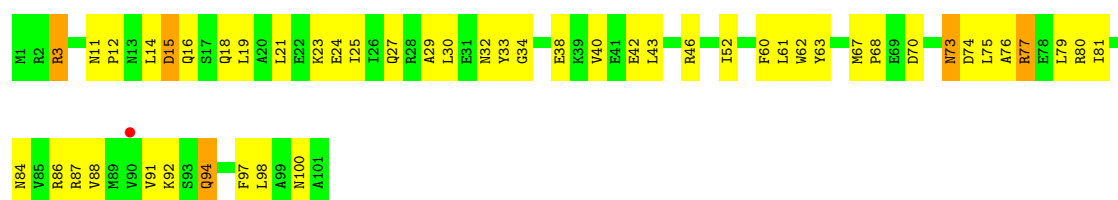
• Molecule 39: 30S ribosomal protein S5



• Molecule 39: 30S ribosomal protein S5

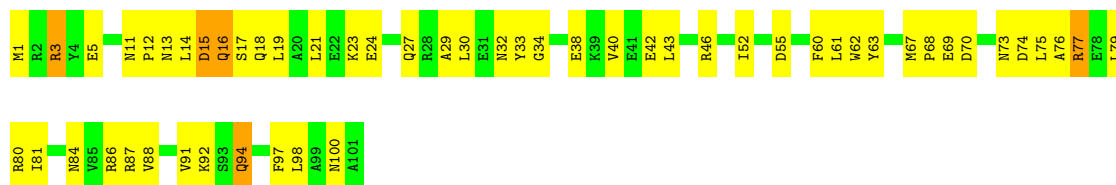


• Molecule 40: 30S ribosomal protein S6



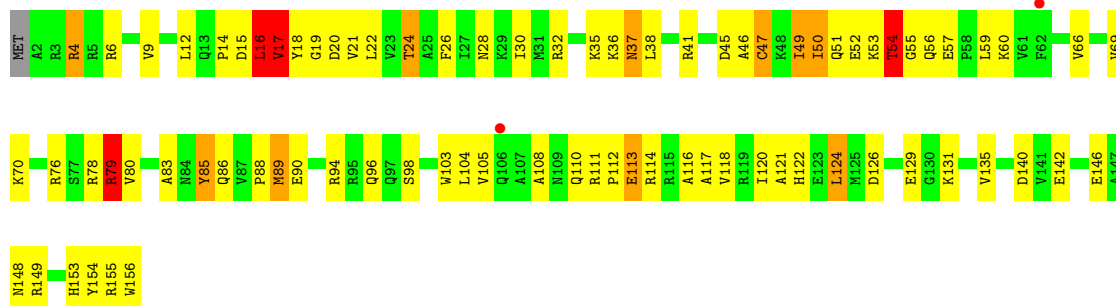
• Molecule 40: 30S ribosomal protein S6

Chain UC: 



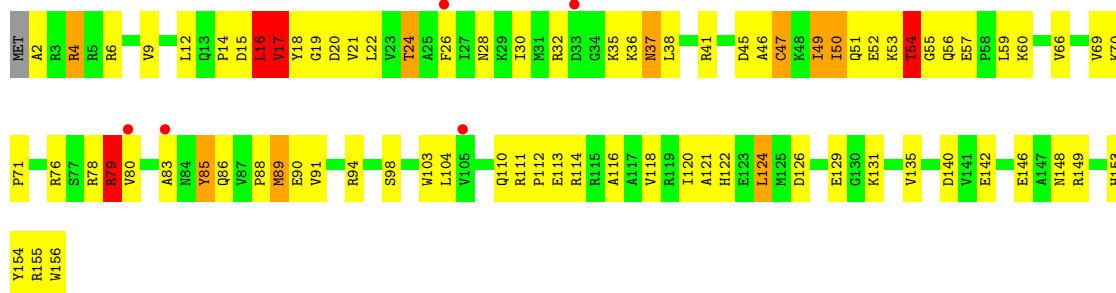
- Molecule 41: 30S ribosomal protein S7

Chain QA: 




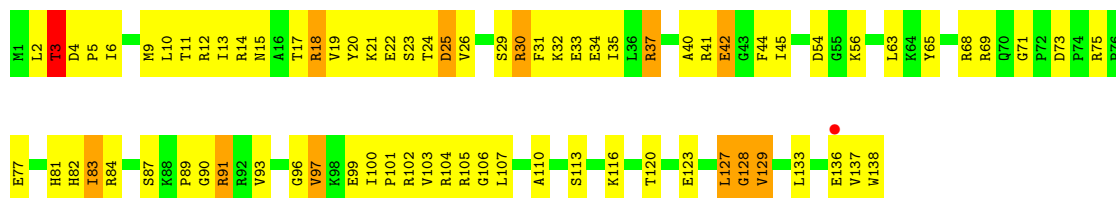
- Molecule 41: 30S ribosomal protein S7

Chain VC: 



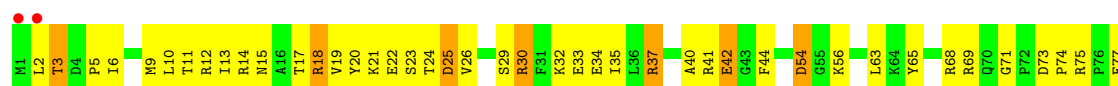
- Molecule 42: 30S ribosomal protein S8

Chain RA: 

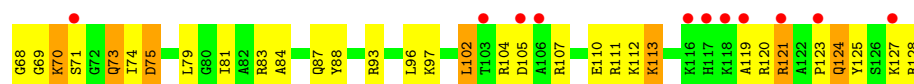
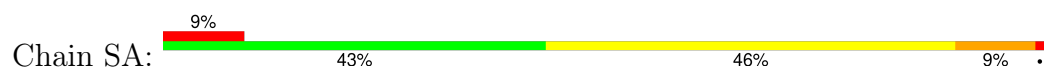


- Molecule 42: 30S ribosomal protein S8

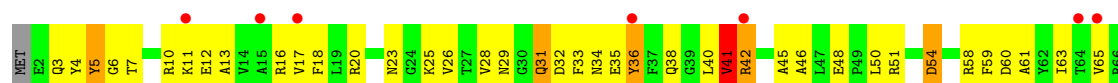
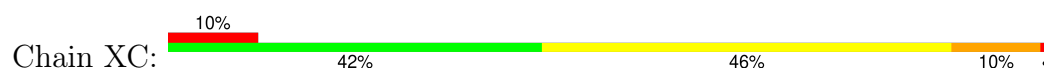
Chain WC: 



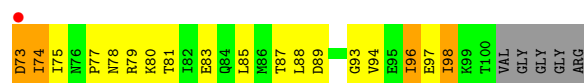
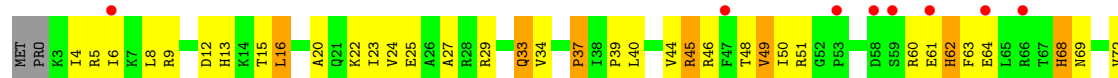
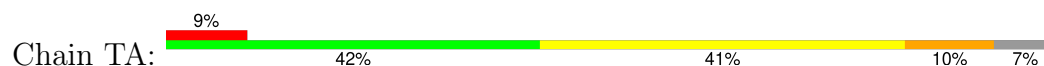
• Molecule 43: 30S ribosomal protein S9



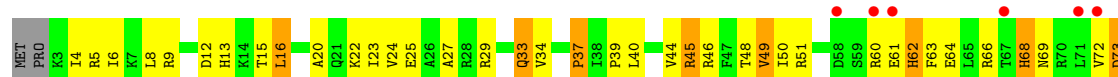
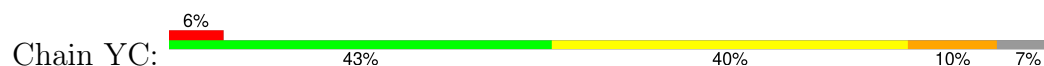
• Molecule 43: 30S ribosomal protein S9



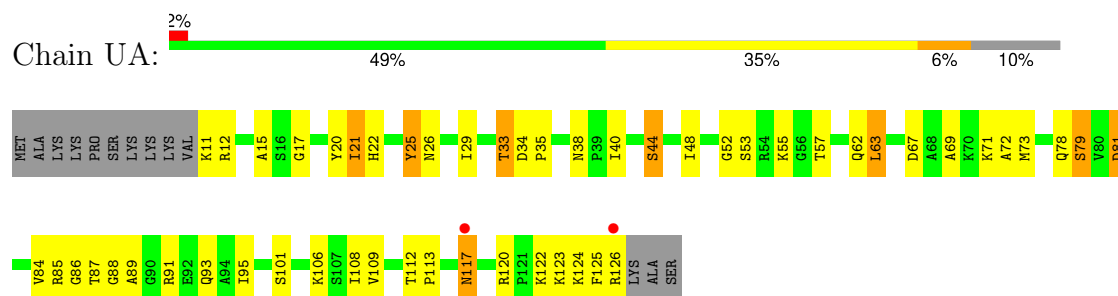
• Molecule 44: 30S ribosomal protein S10



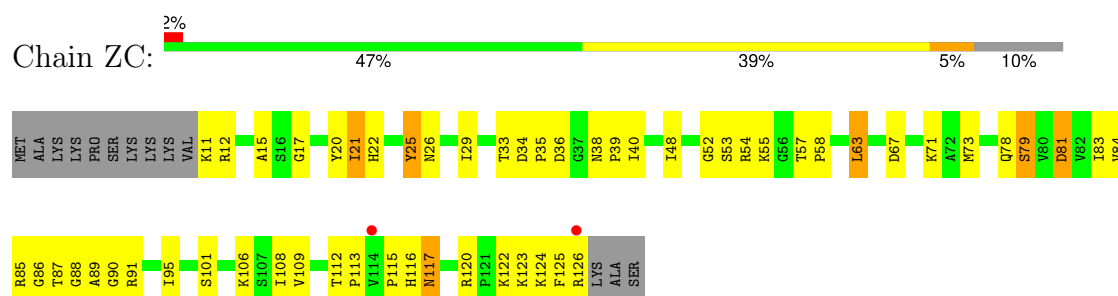
• Molecule 44: 30S ribosomal protein S10



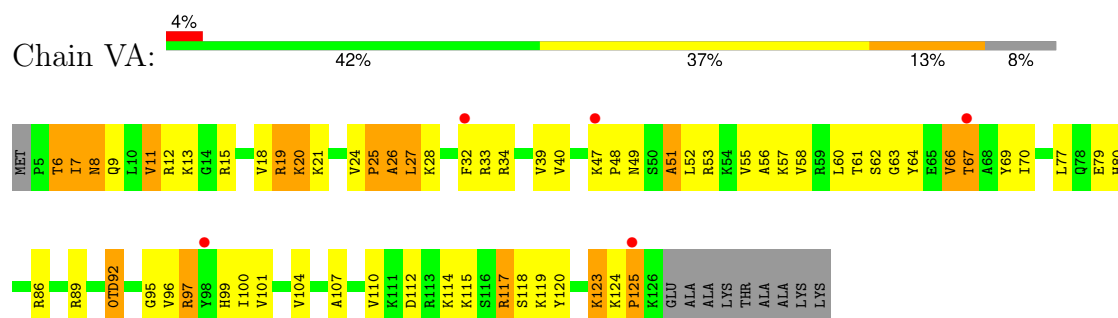
• Molecule 45: 30S ribosomal protein S11



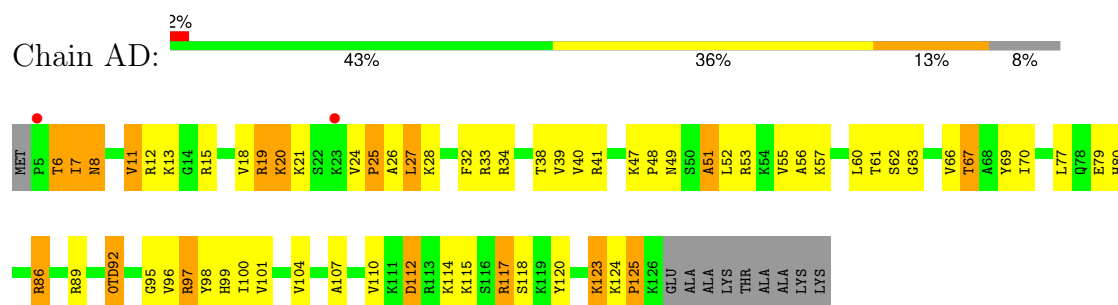
• Molecule 45: 30S ribosomal protein S11



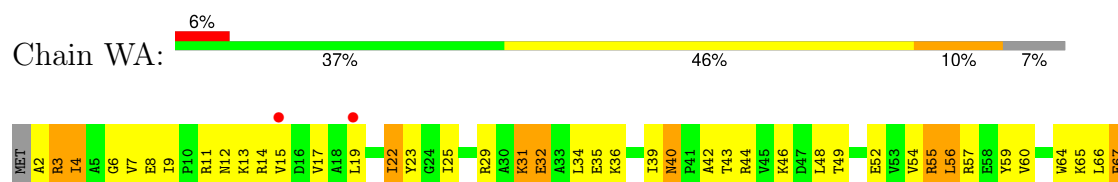
• Molecule 46: 30S ribosomal protein S12



• Molecule 46: 30S ribosomal protein S12

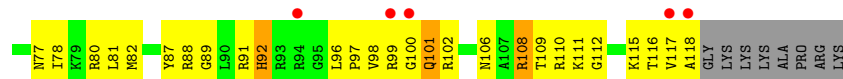


• Molecule 47: 30S ribosomal protein S13





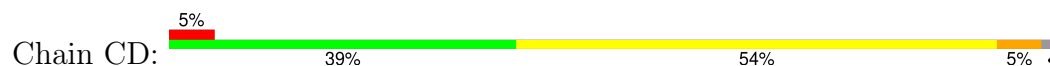
- Molecule 47: 30S ribosomal protein S13



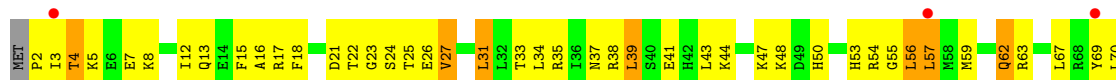
- Molecule 48: 30S ribosomal protein S14 type Z



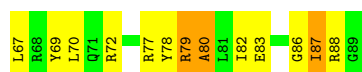
- Molecule 48: 30S ribosomal protein S14 type Z



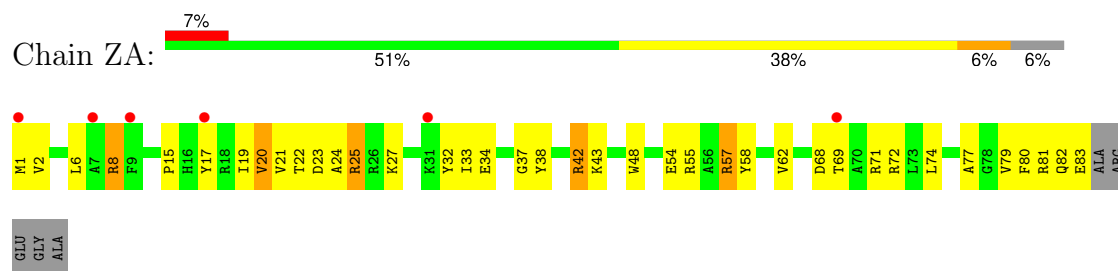
- Molecule 49: 30S ribosomal protein S15



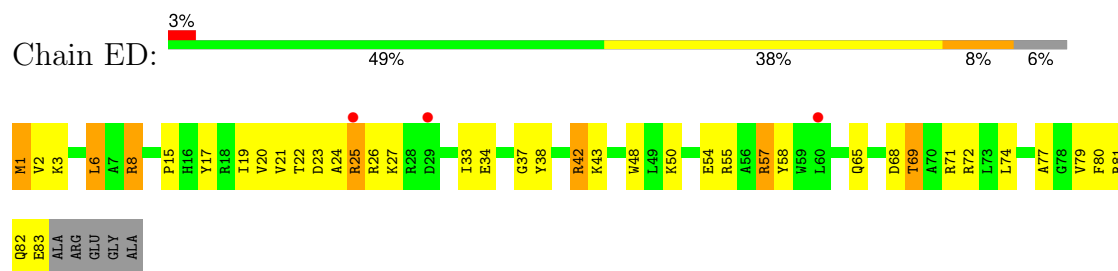
- Molecule 49: 30S ribosomal protein S15



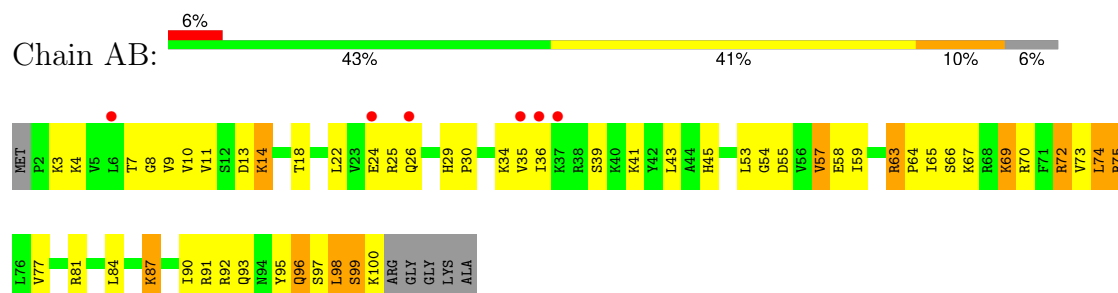
- Molecule 50: 30S ribosomal protein S16



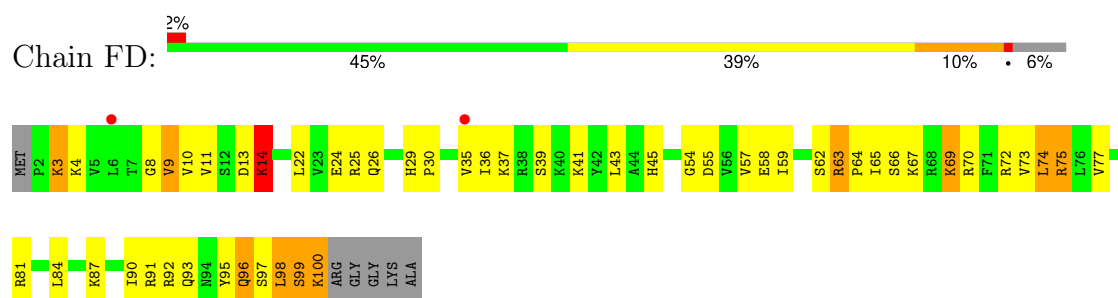
- Molecule 50: 30S ribosomal protein S16



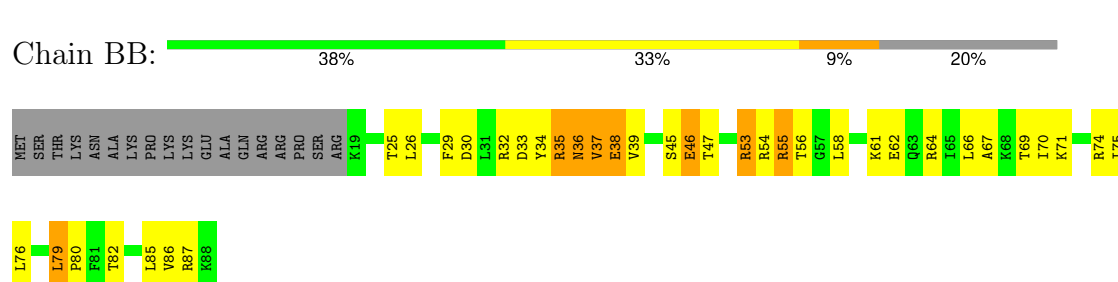
- Molecule 51: 30S ribosomal protein S17



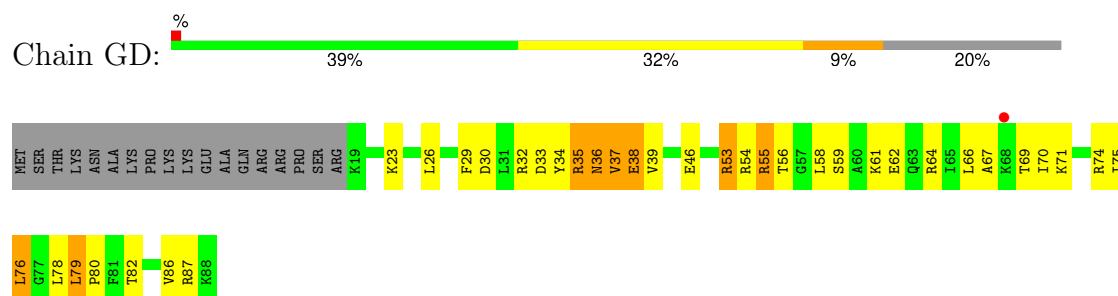
- Molecule 51: 30S ribosomal protein S17



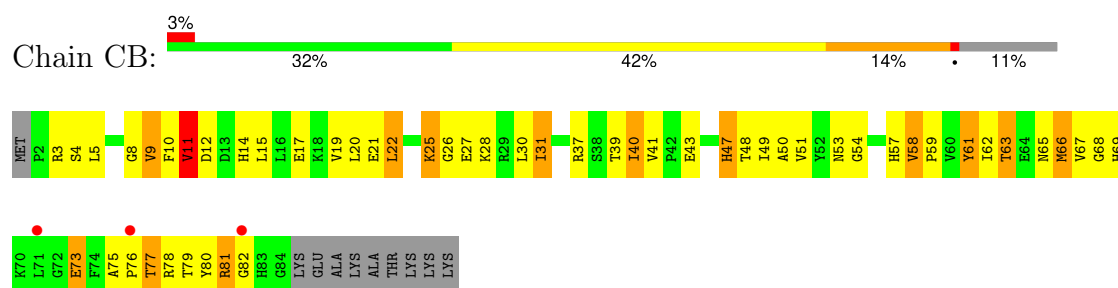
- Molecule 52: 30S ribosomal protein S18



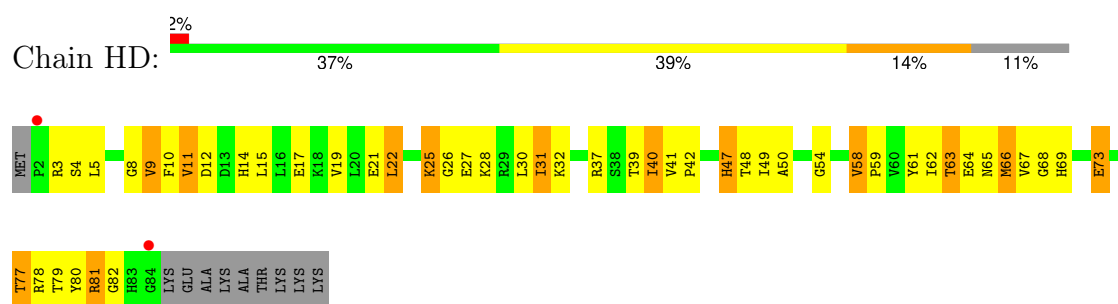
- Molecule 52: 30S ribosomal protein S18



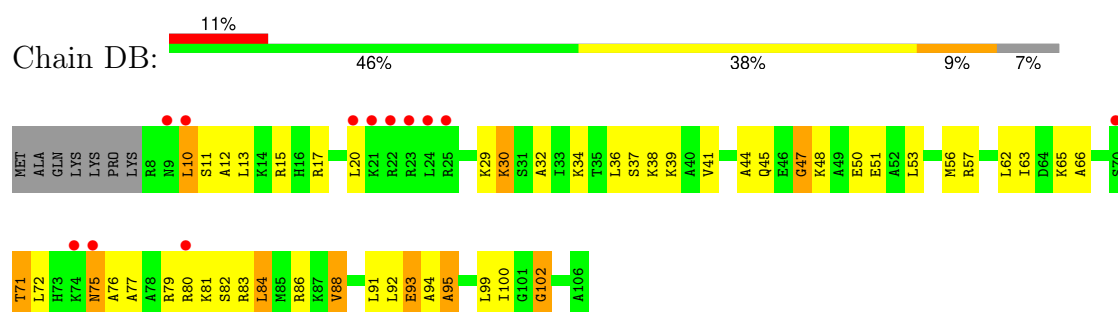
- Molecule 53: 30S ribosomal protein S19



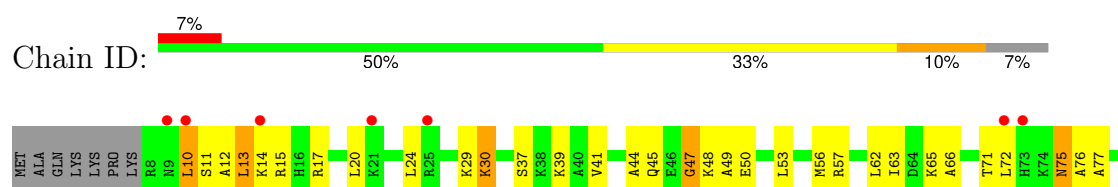
- Molecule 53: 30S ribosomal protein S19

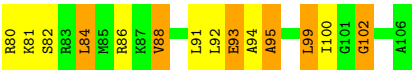


- Molecule 54: 30S ribosomal protein S20



- Molecule 54: 30S ribosomal protein S20





● Molecule 55: 30S ribosomal protein Thx



● Molecule 55: 30S ribosomal protein Thx



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	209.86Å 450.69Å 615.88Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 3.40 50.00 – 3.40	Depositor EDS
% Data completeness (in resolution range)	99.9 (50.00-3.40) 100.0 (50.00-3.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.22 (at 3.41Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	(Not available) , (Not available) 0.243 , 0.281	Depositor DCC
R_{free} test set	784598 reflections (1.00%)	wwPDB-VP
Wilson B-factor (Å ²)	120.8	Xtriage
Anisotropy	0.263	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.27 , 59.2	EDS
L-test for twinning ²	$\langle L \rangle = 0.37$, $\langle L^2 \rangle = 0.20$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	298186	wwPDB-VP
Average B, all atoms (Å ²)	137.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.58% 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 ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 7MG, UR3, 0TD, OMG, BLS, 5MU, 5MC, 4SU, 2MG, 4OC, M2G, MA6, 2MA, MG, ZN, PSU, 2MU

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	A	0.60	1/35961 (0.0%)	1.09	67/56125 (0.1%)
1	FB	0.59	1/35961 (0.0%)	1.09	73/56125 (0.1%)
2	B	0.94	58/69214 (0.1%)	1.41	808/108048 (0.7%)
2	GB	0.83	32/69214 (0.0%)	1.33	620/108048 (0.6%)
3	C	0.56	0/2881	1.05	3/4494 (0.1%)
3	HB	0.51	0/2881	1.02	2/4494 (0.0%)
4	D	0.40	0/1744	0.90	0/2719
4	IA	0.60	0/1744	1.06	4/2719 (0.1%)
4	IB	0.37	0/1744	0.90	0/2719
4	NC	0.50	0/1744	1.00	0/2719
5	E	0.80	4/2195 (0.2%)	0.80	1/2955 (0.0%)
5	JB	0.63	2/2195 (0.1%)	0.73	1/2955 (0.0%)
6	F	0.52	0/1596	0.69	1/2153 (0.0%)
6	KB	0.57	0/1596	0.70	1/2153 (0.0%)
7	G	0.61	0/1621	0.69	0/2194
7	LB	0.51	0/1621	0.65	0/2194
8	H	0.36	0/1496	0.57	0/2013
8	MB	0.33	0/1496	0.57	0/2013
9	I	0.43	0/1356	0.59	0/1834
9	NB	0.34	0/1356	0.55	0/1834
10	J	0.46	0/1152	0.62	0/1559
10	OB	0.42	0/1152	0.61	0/1559
11	K	0.49	0/1148	0.62	0/1547
11	PB	0.44	0/1148	0.59	0/1547
12	L	0.59	0/942	0.66	0/1268
12	QB	0.65	0/942	0.68	0/1268
13	M	0.54	0/1162	0.69	0/1544
13	RB	0.47	0/1162	0.65	0/1544
14	N	0.51	0/1142	0.62	0/1525
14	SB	0.49	0/1142	0.60	0/1525
15	O	0.51	0/982	0.63	0/1312

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
15	TB	0.53	0/982	0.64	0/1312
16	P	0.42	0/887	0.56	0/1180
16	UB	0.40	0/887	0.56	0/1180
17	Q	0.48	0/1157	0.57	0/1544
17	VB	0.54	0/1157	0.59	0/1544
18	R	0.55	0/982	0.60	0/1306
18	WB	0.49	0/982	0.60	0/1306
19	S	0.49	0/790	0.65	0/1057
19	XB	0.44	0/790	0.61	0/1057
20	T	0.65	0/901	0.69	0/1209
20	YB	0.60	0/901	0.68	0/1209
21	U	0.71	0/764	0.68	0/1025
21	ZB	0.60	0/764	0.61	0/1025
22	AC	0.50	0/827	0.61	0/1103
22	V	0.58	0/827	0.64	0/1103
23	BC	0.40	0/1527	0.58	0/2073
23	W	0.44	0/1527	0.60	0/2073
24	CC	0.50	0/671	0.62	0/892
24	X	0.52	0/671	0.63	0/892
25	DC	0.57	0/768	0.69	0/1021
25	Y	0.63	0/768	0.68	0/1021
26	EC	0.50	0/594	0.64	0/785
26	Z	0.61	0/594	0.71	0/785
27	AA	0.50	0/482	0.63	0/646
27	FC	0.44	0/482	0.59	0/646
28	BA	0.39	0/565	0.53	0/761
28	GC	0.35	0/565	0.52	0/761
29	CA	0.54	0/474	0.66	0/640
29	HC	0.54	0/474	0.64	0/640
30	DA	0.34	0/460	0.51	0/613
30	IC	0.33	0/460	0.51	0/613
31	EA	0.77	0/426	0.76	0/561
31	JC	0.65	0/426	0.72	0/561
32	FA	0.60	0/525	0.64	0/691
32	KC	0.53	0/525	0.62	0/691
33	GA	0.41	0/310	0.58	0/407
33	LC	0.45	0/310	0.60	0/407
34	HA	0.72	0/247	0.92	0/382
34	MC	0.72	0/247	0.91	0/382
35	JA	0.37	0/867	0.51	0/1165
35	KA	0.39	0/461	0.56	0/622
35	OC	0.34	0/867	0.51	0/1165
35	PC	0.36	0/461	0.56	0/622

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
36	LA	0.39	0/1935	0.57	0/2609
36	QC	0.35	0/1935	0.55	0/2609
37	MA	0.37	0/1636	0.54	0/2205
37	RC	0.36	0/1636	0.54	0/2205
38	NA	0.47	1/1733 (0.1%)	0.59	1/2318 (0.0%)
38	SC	0.53	1/1733 (0.1%)	0.62	1/2318 (0.0%)
39	OA	0.45	0/1171	0.62	0/1576
39	TC	0.44	0/1171	0.61	0/1576
40	PA	0.51	0/856	0.62	0/1154
40	UC	0.43	0/856	0.60	0/1154
41	QA	0.36	0/1276	0.51	0/1709
41	VC	0.34	0/1276	0.50	0/1709
42	RA	0.37	0/1136	0.57	0/1527
42	WC	0.38	0/1136	0.56	0/1527
43	SA	0.34	0/1029	0.54	0/1378
43	XC	0.32	0/1029	0.53	1/1378 (0.1%)
44	TA	0.36	0/807	0.56	0/1085
44	YC	0.34	0/807	0.57	0/1085
45	UA	0.48	0/879	0.64	0/1187
45	ZC	0.41	0/879	0.59	0/1187
46	AD	0.52	0/963	0.62	0/1287
46	VA	0.50	0/963	0.61	0/1287
47	BD	0.33	0/943	0.51	0/1265
47	WA	0.36	0/943	0.52	0/1265
48	CD	0.35	0/501	0.48	0/664
48	XA	0.37	0/501	0.52	0/664
49	DD	0.42	0/745	0.55	0/992
49	YA	0.49	0/745	0.58	0/992
50	ED	0.40	0/716	0.59	0/963
50	ZA	0.34	0/716	0.56	0/963
51	AB	0.47	0/836	0.57	0/1117
51	FD	0.48	0/836	0.58	0/1117
52	BB	0.46	0/579	0.54	0/768
52	GD	0.41	0/579	0.52	0/768
53	CB	0.32	0/680	0.50	0/915
53	HD	0.30	0/680	0.51	0/915
54	DB	0.36	0/764	0.53	0/1006
54	ID	0.40	0/764	0.54	0/1006
55	EB	0.31	0/212	0.48	0/277
55	JD	0.31	0/212	0.46	0/277
All	All	0.71	100/320836 (0.0%)	1.12	1584/479388 (0.3%)

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
21	U	0	1

The worst 5 of 100 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	E	237	GLU	CG-CD	10.38	1.67	1.51
5	E	237	GLU	CB-CG	8.22	1.67	1.52
38	SC	12	CYS	CB-SG	8.17	1.96	1.82
38	NA	12	CYS	CB-SG	7.71	1.95	1.82
2	GB	1780	A	N9-C4	-7.60	1.33	1.37

The worst 5 of 1584 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	298	G	N1-C6-O6	16.25	129.65	119.90
2	B	2593	U	N3-C4-C5	-15.20	105.48	114.60
2	B	2593	U	C6-N1-C2	-14.08	112.55	121.00
2	GB	2593	U	N3-C4-C5	-13.88	106.27	114.60
2	B	2032	G	C4-C5-N7	13.65	116.26	110.80

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
21	U	84	ALA	Peptide

5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	32394	0	16367	824	0
1	FB	32394	0	16367	817	0
2	B	62031	0	31273	1297	0
2	GB	62031	0	31275	1270	1

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	C	2576	0	1305	62	0
3	HB	2576	0	1305	63	0
4	D	1642	0	841	47	0
4	IA	1642	0	841	44	0
4	IB	1642	0	841	46	0
4	NC	1642	0	841	41	0
5	E	2145	0	2234	111	0
5	JB	2145	0	2234	105	0
6	F	1563	0	1629	90	0
6	KB	1563	0	1629	88	0
7	G	1586	0	1632	110	0
7	LB	1586	0	1632	105	0
8	H	1471	0	1526	90	0
8	MB	1471	0	1526	86	1
9	I	1330	0	1407	63	0
9	NB	1330	0	1407	58	0
10	J	1137	0	1225	56	0
10	OB	1137	0	1225	55	0
11	K	1121	0	1195	57	0
11	PB	1121	0	1195	54	0
12	L	932	0	994	75	0
12	QB	932	0	994	72	0
13	M	1145	0	1228	56	0
13	RB	1145	0	1228	47	0
14	N	1121	0	1179	64	0
14	SB	1121	0	1179	59	0
15	O	968	0	1033	33	0
15	TB	968	0	1033	38	0
16	P	877	0	938	48	0
16	UB	877	0	938	48	0
17	Q	1143	0	1211	81	0
17	VB	1143	0	1211	67	0
18	R	964	0	1022	61	0
18	WB	964	0	1022	55	0
19	S	779	0	852	28	0
19	XB	779	0	852	25	0
20	T	890	0	951	37	0
20	YB	890	0	951	40	0
21	U	750	0	814	40	0
21	ZB	750	0	814	37	0
22	AC	814	0	907	40	0
22	V	814	0	907	40	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	BC	1495	0	1521	80	0
23	W	1495	0	1521	90	0
24	CC	662	0	688	40	0
24	X	662	0	688	38	0
25	DC	761	0	837	52	0
25	Y	761	0	837	46	0
26	EC	592	0	654	32	0
26	Z	592	0	654	33	0
27	AA	477	0	529	27	0
27	FC	477	0	529	25	0
28	BA	552	0	537	31	0
28	GC	552	0	537	30	0
29	CA	460	0	481	32	0
29	HC	460	0	482	30	0
30	DA	453	0	477	15	0
30	IC	453	0	477	13	0
31	EA	418	0	467	24	0
31	JC	418	0	467	30	0
32	FA	517	0	582	31	0
32	KC	517	0	582	28	0
33	GA	307	0	337	11	0
33	LC	307	0	337	9	0
34	HA	220	0	108	10	0
34	MC	220	0	108	10	0
35	JA	850	0	816	38	0
35	KA	455	0	444	24	0
35	OC	850	0	816	38	0
35	PC	455	0	444	26	0
36	LA	1900	0	1951	101	0
36	QC	1900	0	1951	96	0
37	MA	1612	0	1677	91	0
37	RC	1612	0	1677	80	0
38	NA	1703	0	1767	94	0
38	SC	1703	0	1767	91	0
39	OA	1155	0	1213	64	0
39	TC	1155	0	1213	75	0
40	PA	843	0	857	35	0
40	UC	843	0	857	37	0
41	QA	1257	0	1296	62	0
41	VC	1257	0	1296	61	0
42	RA	1116	0	1177	61	0
42	WC	1116	0	1177	61	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	SA	1011	0	1043	61	0
43	XC	1011	0	1043	59	0
44	TA	794	0	840	37	0
44	YC	794	0	840	38	0
45	UA	864	0	881	39	0
45	ZC	864	0	881	45	0
46	AD	958	0	1047	54	0
46	VA	958	0	1047	55	0
47	BD	933	0	992	62	0
47	WA	933	0	992	64	0
48	CD	492	0	533	37	0
48	XA	492	0	533	39	0
49	DD	734	0	771	41	0
49	YA	734	0	771	37	0
50	ED	700	0	720	33	0
50	ZA	700	0	720	28	0
51	AB	823	0	893	40	0
51	FD	823	0	893	40	0
52	BB	574	0	644	32	0
52	GD	574	0	644	31	0
53	CB	665	0	686	43	0
53	HD	665	0	686	43	0
54	DB	762	0	859	43	0
54	ID	762	0	859	41	0
55	EB	208	0	221	16	0
55	JD	208	0	221	16	0
56	A	183	0	0	0	0
56	AA	1	0	0	0	0
56	AB	2	0	0	0	0
56	AC	1	0	0	0	0
56	AD	4	0	0	0	0
56	B	433	0	0	0	0
56	BB	1	0	0	0	0
56	BC	1	0	0	0	0
56	BD	1	0	0	0	0
56	C	22	0	0	0	0
56	CA	1	0	0	0	0
56	CB	1	0	0	0	0
56	CC	1	0	0	0	0
56	D	5	0	0	0	0
56	DC	1	0	0	0	0
56	DD	1	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	E	6	0	0	0	0
56	EA	1	0	0	0	0
56	ED	1	0	0	0	0
56	F	4	0	0	0	0
56	FA	1	0	0	0	0
56	FB	194	0	0	0	0
56	G	2	0	0	0	0
56	GB	402	0	0	0	0
56	GC	1	0	0	0	0
56	H	2	0	0	0	0
56	HA	3	0	0	0	0
56	HB	20	0	0	0	0
56	HD	1	0	0	0	0
56	IA	9	0	0	0	0
56	IB	2	0	0	0	0
56	IC	1	0	0	0	0
56	J	1	0	0	0	0
56	JA	1	0	0	0	0
56	JB	5	0	0	0	0
56	JC	1	0	0	0	0
56	K	4	0	0	0	0
56	KB	2	0	0	0	0
56	KC	1	0	0	0	0
56	L	3	0	0	0	0
56	LA	1	0	0	0	0
56	LB	4	0	0	0	0
56	M	3	0	0	0	0
56	MA	6	0	0	0	0
56	MC	3	0	0	0	0
56	NA	2	0	0	0	0
56	NB	1	0	0	0	0
56	NC	10	0	0	0	0
56	O	2	0	0	0	0
56	OA	4	0	0	0	0
56	OB	1	0	0	0	0
56	OC	1	0	0	0	0
56	PA	3	0	0	0	0
56	PB	2	0	0	0	0
56	PC	1	0	0	0	0
56	Q	1	0	0	0	0
56	QA	1	0	0	0	0
56	QB	2	0	0	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	QC	3	0	0	0	0
56	R	1	0	0	0	0
56	RB	3	0	0	0	0
56	RC	2	0	0	0	0
56	S	1	0	0	0	0
56	SA	1	0	0	0	0
56	SB	2	0	0	0	0
56	SC	4	0	0	0	0
56	T	2	0	0	0	0
56	TB	1	0	0	0	0
56	TC	3	0	0	0	0
56	U	1	0	0	0	0
56	UA	1	0	0	0	0
56	UB	4	0	0	0	0
56	UC	3	0	0	0	0
56	V	2	0	0	0	0
56	VA	2	0	0	0	0
56	VB	3	0	0	0	0
56	VC	1	0	0	0	0
56	WC	1	0	0	0	0
56	XB	2	0	0	0	0
56	Y	3	0	0	0	0
56	YA	3	0	0	0	0
56	Z	1	0	0	0	0
56	ZB	2	0	0	0	0
56	ZC	1	0	0	0	0
57	B	30	0	24	4	0
57	GB	30	0	24	7	0
58	AC	1	0	0	0	0
58	BA	1	0	0	0	0
58	CA	1	0	0	0	0
58	DA	1	0	0	0	0
58	GA	1	0	0	0	0
58	GC	1	0	0	0	0
58	HC	1	0	0	0	0
58	IC	1	0	0	0	0
58	LC	1	0	0	0	0
58	V	1	0	0	0	0
All	All	298186	0	202351	8489	1

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 18.

The worst 5 of 8489 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)
38:SC:18:LYS:NZ	38:SC:26:CYS:SG	2.02	1.33
38:SC:18:LYS:NZ	38:SC:31:CYS:SG	2.07	1.27
38:NA:18:LYS:NZ	38:NA:26:CYS:SG	2.09	1.26
3:C:90:C:OP2	14:N:16:ARG:NH1	1.77	1.18
1:FB:9:G:OP2	39:TC:121:LYS:NZ	1.76	1.16

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:GB:1412:A:O2'	8:MB:9:ARG:NH1[1_655]	1.99	0.21

5.3 Torsion angles

5.3.1 Protein backbone

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	
5	E	273/275 (99%)	243 (89%)	24 (9%)	6 (2%)	5	24
5	JB	273/275 (99%)	245 (90%)	22 (8%)	6 (2%)	5	24
6	F	202/206 (98%)	166 (82%)	28 (14%)	8 (4%)	2	15
6	KB	202/206 (98%)	167 (83%)	29 (14%)	6 (3%)	3	19
7	G	200/205 (98%)	173 (86%)	24 (12%)	3 (2%)	8	30
7	LB	200/205 (98%)	172 (86%)	25 (12%)	3 (2%)	8	30
8	H	179/182 (98%)	134 (75%)	37 (21%)	8 (4%)	2	13
8	MB	179/182 (98%)	134 (75%)	37 (21%)	8 (4%)	2	13
9	I	172/180 (96%)	134 (78%)	32 (19%)	6 (4%)	3	17
9	NB	172/180 (96%)	134 (78%)	32 (19%)	6 (4%)	3	17
10	J	144/148 (97%)	111 (77%)	23 (16%)	10 (7%)	1	6

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
10	OB	144/148 (97%)	111 (77%)	24 (17%)	9 (6%)	1	7
11	K	138/140 (99%)	115 (83%)	17 (12%)	6 (4%)	2	14
11	PB	138/140 (99%)	118 (86%)	15 (11%)	5 (4%)	3	16
12	L	120/122 (98%)	110 (92%)	9 (8%)	1 (1%)	16	44
12	QB	120/122 (98%)	108 (90%)	9 (8%)	3 (2%)	4	22
13	M	148/150 (99%)	126 (85%)	12 (8%)	10 (7%)	1	6
13	RB	148/150 (99%)	124 (84%)	14 (10%)	10 (7%)	1	6
14	N	139/141 (99%)	120 (86%)	17 (12%)	2 (1%)	9	31
14	SB	139/141 (99%)	121 (87%)	15 (11%)	3 (2%)	5	24
15	O	116/118 (98%)	99 (85%)	12 (10%)	5 (4%)	2	14
15	TB	116/118 (98%)	97 (84%)	13 (11%)	6 (5%)	1	10
16	P	108/112 (96%)	82 (76%)	23 (21%)	3 (3%)	4	20
16	UB	108/112 (96%)	83 (77%)	22 (20%)	3 (3%)	4	20
17	Q	135/146 (92%)	118 (87%)	13 (10%)	4 (3%)	3	19
17	VB	135/146 (92%)	117 (87%)	15 (11%)	3 (2%)	5	24
18	R	115/118 (98%)	106 (92%)	9 (8%)	0	100	100
18	WB	115/118 (98%)	106 (92%)	8 (7%)	1 (1%)	14	41
19	S	99/101 (98%)	85 (86%)	10 (10%)	4 (4%)	2	15
19	XB	99/101 (98%)	84 (85%)	12 (12%)	3 (3%)	3	19
20	T	110/113 (97%)	97 (88%)	11 (10%)	2 (2%)	7	27
20	YB	110/113 (97%)	98 (89%)	12 (11%)	0	100	100
21	U	93/96 (97%)	83 (89%)	8 (9%)	2 (2%)	5	24
21	ZB	93/96 (97%)	85 (91%)	6 (6%)	2 (2%)	5	24
22	AC	105/110 (96%)	83 (79%)	16 (15%)	6 (6%)	1	9
22	V	105/110 (96%)	83 (79%)	14 (13%)	8 (8%)	1	5
23	BC	187/206 (91%)	137 (73%)	43 (23%)	7 (4%)	2	16
23	W	187/206 (91%)	139 (74%)	41 (22%)	7 (4%)	2	16
24	CC	82/85 (96%)	70 (85%)	8 (10%)	4 (5%)	2	11
24	X	82/85 (96%)	71 (87%)	8 (10%)	3 (4%)	2	16
25	DC	95/98 (97%)	87 (92%)	7 (7%)	1 (1%)	12	37
25	Y	95/98 (97%)	86 (90%)	8 (8%)	1 (1%)	12	37

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
26	EC	68/72 (94%)	61 (90%)	4 (6%)	3 (4%)	2	13
26	Z	68/72 (94%)	59 (87%)	6 (9%)	3 (4%)	2	13
27	AA	58/60 (97%)	44 (76%)	12 (21%)	2 (3%)	3	17
27	FC	58/60 (97%)	45 (78%)	11 (19%)	2 (3%)	3	17
28	BA	67/71 (94%)	43 (64%)	16 (24%)	8 (12%)	0	2
28	GC	67/71 (94%)	44 (66%)	15 (22%)	8 (12%)	0	2
29	CA	57/60 (95%)	50 (88%)	6 (10%)	1 (2%)	7	27
29	HC	57/60 (95%)	49 (86%)	8 (14%)	0	100	100
30	DA	51/54 (94%)	42 (82%)	8 (16%)	1 (2%)	6	25
30	IC	51/54 (94%)	42 (82%)	8 (16%)	1 (2%)	6	25
31	EA	46/49 (94%)	41 (89%)	5 (11%)	0	100	100
31	JC	46/49 (94%)	38 (83%)	8 (17%)	0	100	100
32	FA	62/65 (95%)	53 (86%)	9 (14%)	0	100	100
32	KC	62/65 (95%)	53 (86%)	9 (14%)	0	100	100
33	GA	35/37 (95%)	24 (69%)	8 (23%)	3 (9%)	0	4
33	LC	35/37 (95%)	24 (69%)	8 (23%)	3 (9%)	0	4
35	JA	108/365 (30%)	84 (78%)	18 (17%)	6 (6%)	1	10
35	KA	53/365 (14%)	31 (58%)	13 (24%)	9 (17%)	0	0
35	OC	108/365 (30%)	83 (77%)	19 (18%)	6 (6%)	1	10
35	PC	53/365 (14%)	31 (58%)	14 (26%)	8 (15%)	0	0
36	LA	232/256 (91%)	176 (76%)	40 (17%)	16 (7%)	1	6
36	QC	232/256 (91%)	174 (75%)	41 (18%)	17 (7%)	1	5
37	MA	204/239 (85%)	166 (81%)	28 (14%)	10 (5%)	2	11
37	RC	204/239 (85%)	167 (82%)	25 (12%)	12 (6%)	1	8
38	NA	206/209 (99%)	162 (79%)	35 (17%)	9 (4%)	2	13
38	SC	206/209 (99%)	158 (77%)	39 (19%)	9 (4%)	2	13
39	OA	149/162 (92%)	126 (85%)	19 (13%)	4 (3%)	4	21
39	TC	149/162 (92%)	124 (83%)	20 (13%)	5 (3%)	3	17
40	PA	99/101 (98%)	81 (82%)	14 (14%)	4 (4%)	2	15
40	UC	99/101 (98%)	82 (83%)	13 (13%)	4 (4%)	2	15
41	QA	153/156 (98%)	121 (79%)	24 (16%)	8 (5%)	1	10

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
41	VC	153/156 (98%)	121 (79%)	24 (16%)	8 (5%)	1	10
42	RA	136/138 (99%)	106 (78%)	25 (18%)	5 (4%)	2	16
42	WC	136/138 (99%)	106 (78%)	25 (18%)	5 (4%)	2	16
43	SA	125/128 (98%)	91 (73%)	28 (22%)	6 (5%)	2	12
43	XC	125/128 (98%)	93 (74%)	25 (20%)	7 (6%)	1	10
44	TA	96/105 (91%)	72 (75%)	15 (16%)	9 (9%)	0	3
44	YC	96/105 (91%)	75 (78%)	12 (12%)	9 (9%)	0	3
45	UA	114/129 (88%)	87 (76%)	23 (20%)	4 (4%)	3	17
45	ZC	114/129 (88%)	87 (76%)	24 (21%)	3 (3%)	4	22
46	AD	119/132 (90%)	91 (76%)	20 (17%)	8 (7%)	1	7
46	VA	119/132 (90%)	89 (75%)	22 (18%)	8 (7%)	1	7
47	BD	115/126 (91%)	90 (78%)	18 (16%)	7 (6%)	1	8
47	WA	115/126 (91%)	91 (79%)	18 (16%)	6 (5%)	1	10
48	CD	58/61 (95%)	45 (78%)	12 (21%)	1 (2%)	7	28
48	XA	58/61 (95%)	44 (76%)	13 (22%)	1 (2%)	7	28
49	DD	86/89 (97%)	67 (78%)	16 (19%)	3 (4%)	3	17
49	YA	86/89 (97%)	68 (79%)	14 (16%)	4 (5%)	2	12
50	ED	81/88 (92%)	72 (89%)	8 (10%)	1 (1%)	11	35
50	ZA	81/88 (92%)	71 (88%)	9 (11%)	1 (1%)	11	35
51	AB	97/105 (92%)	78 (80%)	15 (16%)	4 (4%)	2	15
51	FD	97/105 (92%)	81 (84%)	11 (11%)	5 (5%)	1	10
52	BB	68/88 (77%)	63 (93%)	4 (6%)	1 (2%)	8	30
52	GD	68/88 (77%)	61 (90%)	5 (7%)	2 (3%)	3	19
53	CB	81/93 (87%)	58 (72%)	16 (20%)	7 (9%)	0	4
53	HD	81/93 (87%)	58 (72%)	17 (21%)	6 (7%)	1	5
54	DB	97/106 (92%)	79 (81%)	11 (11%)	7 (7%)	1	6
54	ID	97/106 (92%)	79 (81%)	12 (12%)	6 (6%)	1	8
55	EB	22/27 (82%)	18 (82%)	2 (9%)	2 (9%)	0	4
55	JD	22/27 (82%)	18 (82%)	2 (9%)	2 (9%)	0	4
All	All	11806/13576 (87%)	9599 (81%)	1713 (14%)	494 (4%)	2	14

5 of 494 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	E	122	ASP
7	G	130	ALA
8	H	12	TYR
8	H	43	LEU
8	H	47	LYS

5.3.2 Protein sidechains ⓘ

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	
5	E	217/217 (100%)	177 (82%)	40 (18%)	1	5
5	JB	217/217 (100%)	176 (81%)	41 (19%)	1	4
6	F	165/166 (99%)	139 (84%)	26 (16%)	2	8
6	KB	165/166 (99%)	139 (84%)	26 (16%)	2	8
7	G	161/162 (99%)	136 (84%)	25 (16%)	2	9
7	LB	161/162 (99%)	134 (83%)	27 (17%)	1	7
8	H	154/156 (99%)	121 (79%)	33 (21%)	1	2
8	MB	154/156 (99%)	121 (79%)	33 (21%)	1	2
9	I	144/148 (97%)	123 (85%)	21 (15%)	2	10
9	NB	144/148 (97%)	122 (85%)	22 (15%)	2	9
10	J	122/124 (98%)	95 (78%)	27 (22%)	1	2
10	OB	122/124 (98%)	94 (77%)	28 (23%)	0	2
11	K	119/119 (100%)	99 (83%)	20 (17%)	1	7
11	PB	119/119 (100%)	98 (82%)	21 (18%)	1	6
12	L	100/100 (100%)	88 (88%)	12 (12%)	4	16
12	QB	100/100 (100%)	87 (87%)	13 (13%)	3	13
13	M	116/116 (100%)	86 (74%)	30 (26%)	0	1
13	RB	116/116 (100%)	86 (74%)	30 (26%)	0	1
14	N	111/111 (100%)	94 (85%)	17 (15%)	2	9
14	SB	111/111 (100%)	94 (85%)	17 (15%)	2	9

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	O	101/101 (100%)	83 (82%)	18 (18%)	1	5
15	TB	101/101 (100%)	84 (83%)	17 (17%)	1	7
16	P	87/88 (99%)	72 (83%)	15 (17%)	1	6
16	UB	87/88 (99%)	73 (84%)	14 (16%)	2	8
17	Q	121/128 (94%)	97 (80%)	24 (20%)	1	3
17	VB	121/128 (94%)	96 (79%)	25 (21%)	1	2
18	R	93/94 (99%)	82 (88%)	11 (12%)	4	16
18	WB	93/94 (99%)	82 (88%)	11 (12%)	4	16
19	S	82/82 (100%)	64 (78%)	18 (22%)	1	2
19	XB	82/82 (100%)	64 (78%)	18 (22%)	1	2
20	T	91/92 (99%)	78 (86%)	13 (14%)	2	10
20	YB	91/92 (99%)	79 (87%)	12 (13%)	3	13
21	U	77/78 (99%)	70 (91%)	7 (9%)	7	26
21	ZB	77/78 (99%)	68 (88%)	9 (12%)	4	16
22	AC	87/91 (96%)	71 (82%)	16 (18%)	1	5
22	V	87/91 (96%)	71 (82%)	16 (18%)	1	5
23	BC	163/179 (91%)	133 (82%)	30 (18%)	1	5
23	W	163/179 (91%)	133 (82%)	30 (18%)	1	5
24	CC	66/67 (98%)	54 (82%)	12 (18%)	1	5
24	X	66/67 (98%)	53 (80%)	13 (20%)	1	3
25	DC	81/83 (98%)	64 (79%)	17 (21%)	1	2
25	Y	81/83 (98%)	67 (83%)	14 (17%)	1	6
26	EC	66/67 (98%)	60 (91%)	6 (9%)	7	26
26	Z	66/67 (98%)	59 (89%)	7 (11%)	5	20
27	AA	52/52 (100%)	38 (73%)	14 (27%)	0	1
27	FC	52/52 (100%)	37 (71%)	15 (29%)	0	1
28	BA	59/63 (94%)	44 (75%)	15 (25%)	0	1
28	GC	59/63 (94%)	44 (75%)	15 (25%)	0	1
29	CA	51/52 (98%)	43 (84%)	8 (16%)	2	8
29	HC	51/52 (98%)	43 (84%)	8 (16%)	2	8
30	DA	51/52 (98%)	41 (80%)	10 (20%)	1	3

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
30	IC	51/52 (98%)	41 (80%)	10 (20%)	1	3
31	EA	41/42 (98%)	33 (80%)	8 (20%)	1	3
31	JC	41/42 (98%)	33 (80%)	8 (20%)	1	3
32	FA	54/55 (98%)	50 (93%)	4 (7%)	11	35
32	KC	54/55 (98%)	49 (91%)	5 (9%)	7	25
33	GA	34/34 (100%)	33 (97%)	1 (3%)	37	61
33	LC	34/34 (100%)	33 (97%)	1 (3%)	37	61
35	JA	85/305 (28%)	68 (80%)	17 (20%)	1	3
35	KA	50/305 (16%)	38 (76%)	12 (24%)	0	1
35	OC	85/305 (28%)	68 (80%)	17 (20%)	1	3
35	PC	50/305 (16%)	38 (76%)	12 (24%)	0	1
36	LA	202/220 (92%)	156 (77%)	46 (23%)	0	2
36	QC	202/220 (92%)	154 (76%)	48 (24%)	0	1
37	MA	160/188 (85%)	137 (86%)	23 (14%)	2	10
37	RC	160/188 (85%)	138 (86%)	22 (14%)	3	11
38	NA	180/181 (99%)	155 (86%)	25 (14%)	3	11
38	SC	180/181 (99%)	155 (86%)	25 (14%)	3	11
39	OA	116/123 (94%)	93 (80%)	23 (20%)	1	3
39	TC	116/123 (94%)	94 (81%)	22 (19%)	1	4
40	PA	90/90 (100%)	79 (88%)	11 (12%)	4	15
40	UC	90/90 (100%)	78 (87%)	12 (13%)	3	12
41	QA	126/127 (99%)	105 (83%)	21 (17%)	2	7
41	VC	126/127 (99%)	105 (83%)	21 (17%)	2	7
42	RA	119/119 (100%)	105 (88%)	14 (12%)	4	16
42	WC	119/119 (100%)	106 (89%)	13 (11%)	5	19
43	SA	98/99 (99%)	79 (81%)	19 (19%)	1	3
43	XC	98/99 (99%)	79 (81%)	19 (19%)	1	3
44	TA	88/92 (96%)	72 (82%)	16 (18%)	1	5
44	YC	88/92 (96%)	71 (81%)	17 (19%)	1	3
45	UA	88/99 (89%)	77 (88%)	11 (12%)	3	14
45	ZC	88/99 (89%)	77 (88%)	11 (12%)	3	14

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
46	AD	102/108 (94%)	84 (82%)	18 (18%)	1	6
46	VA	102/108 (94%)	84 (82%)	18 (18%)	1	6
47	BD	94/101 (93%)	74 (79%)	20 (21%)	1	2
47	WA	94/101 (93%)	74 (79%)	20 (21%)	1	2
48	CD	49/50 (98%)	42 (86%)	7 (14%)	2	10
48	XA	49/50 (98%)	42 (86%)	7 (14%)	2	10
49	DD	79/80 (99%)	62 (78%)	17 (22%)	1	2
49	YA	79/80 (99%)	62 (78%)	17 (22%)	1	2
50	ED	72/74 (97%)	60 (83%)	12 (17%)	2	7
50	ZA	72/74 (97%)	61 (85%)	11 (15%)	2	9
51	AB	94/97 (97%)	77 (82%)	17 (18%)	1	5
51	FD	94/97 (97%)	76 (81%)	18 (19%)	1	4
52	BB	61/77 (79%)	49 (80%)	12 (20%)	1	3
52	GD	61/77 (79%)	50 (82%)	11 (18%)	1	5
53	CB	72/80 (90%)	57 (79%)	15 (21%)	1	2
53	HD	72/80 (90%)	58 (81%)	14 (19%)	1	3
54	DB	76/82 (93%)	66 (87%)	10 (13%)	3	13
54	ID	76/82 (93%)	66 (87%)	10 (13%)	3	13
55	EB	19/22 (86%)	15 (79%)	4 (21%)	1	2
55	JD	19/22 (86%)	15 (79%)	4 (21%)	1	2
All	All	9972/11276 (88%)	8229 (82%)	1743 (18%)	1	6

5 of 1743 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
6	KB	160	TYR
16	UB	42	ASP
44	YC	96	ILE
7	LB	158	THR
6	KB	154	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 26 such sidechains are listed below:

Mol	Chain	Res	Type
12	QB	82	ASN
15	TB	24	GLN
45	ZC	22	HIS
12	QB	90	GLN
16	UB	16	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	1502/1507 (99%)	347 (23%)	12 (0%)
1	FB	1502/1507 (99%)	343 (22%)	12 (0%)
2	B	2876/2880 (99%)	658 (22%)	22 (0%)
2	GB	2876/2880 (99%)	658 (22%)	22 (0%)
3	C	119/120 (99%)	19 (15%)	0
3	HB	119/120 (99%)	20 (16%)	0
34	HA	9/27 (33%)	3 (33%)	0
34	MC	9/27 (33%)	3 (33%)	0
4	D	76/77 (98%)	27 (35%)	0
4	IA	76/77 (98%)	20 (26%)	0
4	IB	76/77 (98%)	26 (34%)	0
4	NC	76/77 (98%)	19 (25%)	0
All	All	9316/9376 (99%)	2143 (23%)	68 (0%)

5 of 2143 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	9	G
1	A	13	U
1	A	22	G
1	A	26	A
1	A	31	G

5 of 68 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	GB	1558	A
2	GB	1939	5MU
2	GB	2439	A
2	B	1608	A
2	B	1558	A

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

64 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$
1	5MC	A	1404	1	19,22,23	2.84	5 (26%)	26,32,35	1.27	5 (19%)
1	UR3	A	1498	1	19,22,23	1.78	1 (5%)	26,32,35	1.43	2 (7%)
2	5MU	B	1915	2	19,22,23	2.01	3 (15%)	27,32,35	2.30	9 (33%)
2	5MC	B	1942	2	19,22,23	2.57	4 (21%)	26,32,35	1.41	3 (11%)
2	5MC	GB	1942	2	19,22,23	2.35	4 (21%)	26,32,35	1.55	3 (11%)
4	PSU	NC	55	4	18,21,22	1.72	2 (11%)	21,30,33	1.82	4 (19%)
1	PSU	FB	516	1	18,21,22	1.78	3 (16%)	21,30,33	1.40	3 (14%)
2	2MU	B	2552	2	19,22,24	2.69	6 (31%)	25,31,36	2.27	7 (28%)
2	2MU	GB	2552	2	19,22,24	2.54	5 (26%)	25,31,36	2.31	7 (28%)
4	PSU	IA	55	4	18,21,22	1.64	2 (11%)	21,30,33	1.88	4 (19%)
1	5MC	A	1407	1	19,22,23	2.71	4 (21%)	26,32,35	1.17	3 (11%)
1	5MC	FB	1400	1	19,22,23	2.66	5 (26%)	26,32,35	1.16	2 (7%)
1	UR3	FB	1498	1	19,22,23	1.80	1 (5%)	26,32,35	1.51	3 (11%)
2	5MU	GB	1915	2	19,22,23	2.01	3 (15%)	27,32,35	2.19	8 (29%)
4	4SU	IB	8	4	18,21,22	4.57	7 (38%)	25,30,33	5.95	11 (44%)
2	5MU	B	1939	2	19,22,23	2.08	4 (21%)	27,32,35	2.60	8 (29%)
4	5MC	IB	32	4	19,22,23	2.50	4 (21%)	26,32,35	1.10	2 (7%)
2	PSU	GB	1911	2	18,21,22	1.59	3 (16%)	21,30,33	2.19	7 (33%)
4	5MU	IA	54	4	19,22,23	2.07	3 (15%)	27,32,35	2.05	8 (29%)
2	OMG	B	2251	2	19,26,27	2.00	4 (21%)	21,38,41	1.66	5 (23%)
1	2MG	A	1207	1	18,26,27	2.22	4 (22%)	16,38,41	1.47	3 (18%)
4	5MC	NC	32	4	19,22,23	2.64	4 (21%)	26,32,35	1.08	2 (7%)
4	PSU	D	55	4	18,21,22	1.69	2 (11%)	21,30,33	1.76	5 (23%)
4	5MU	IB	54	4	19,22,23	2.06	3 (15%)	27,32,35	2.12	7 (25%)
1	4OC	A	1402	1	20,23,24	1.08	2 (10%)	25,32,35	1.20	1 (4%)
1	5MC	FB	1404	1	19,22,23	3.02	4 (21%)	26,32,35	1.14	2 (7%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	A	967	1	19,22,23	2.47	5 (26%)	26,32,35	1.43	4 (15%)
1	7MG	FB	527	1	23,26,27	3.15	7 (30%)	27,39,42	2.29	8 (29%)
2	4OC	B	1920	56,2	19,22,24	1.13	1 (5%)	25,31,35	1.55	2 (8%)
1	7MG	A	527	1	23,26,27	3.02	7 (30%)	27,39,42	2.18	8 (29%)
4	5MU	NC	54	4	19,22,23	2.09	3 (15%)	27,32,35	2.03	7 (25%)
4	4SU	NC	8	4	18,21,22	4.65	7 (38%)	25,30,33	6.26	10 (40%)
2	PSU	B	1917	2	18,21,22	1.77	2 (11%)	21,30,33	1.79	4 (19%)
4	5MC	D	32	4	19,22,23	2.69	4 (21%)	26,32,35	1.11	3 (11%)
4	4SU	IA	8	4	18,21,22	4.94	7 (38%)	25,30,33	5.95	10 (40%)
1	MA6	A	1518	1	19,26,27	2.15	4 (21%)	18,38,41	1.73	4 (22%)
1	5MC	FB	1407	1	19,22,23	2.56	4 (21%)	26,32,35	1.11	3 (11%)
2	PSU	GB	1917	2	18,21,22	1.81	2 (11%)	21,30,33	1.83	5 (23%)
1	PSU	A	516	1	18,21,22	1.61	3 (16%)	21,30,33	1.44	2 (9%)
2	PSU	B	2605	2	18,21,22	1.53	2 (11%)	21,30,33	2.13	5 (23%)
46	0TD	AD	92	46	8,9,10	1.98	2 (25%)	6,11,13	3.12	4 (66%)
4	4SU	D	8	4	18,21,22	4.71	7 (38%)	25,30,33	5.99	10 (40%)
4	5MU	D	54	4	19,22,23	2.09	3 (15%)	27,32,35	2.11	6 (22%)
1	5MC	FB	967	1	19,22,23	2.54	5 (26%)	26,32,35	1.40	5 (19%)
2	OMG	GB	2251	2	19,26,27	2.07	5 (26%)	21,38,41	1.60	5 (23%)
2	4OC	GB	1920	2	19,22,24	1.07	1 (5%)	25,31,35	1.46	1 (4%)
2	PSU	B	1911	2	18,21,22	1.35	1 (5%)	21,30,33	2.13	7 (33%)
1	5MC	A	1400	1	19,22,23	2.61	5 (26%)	26,32,35	1.34	4 (15%)
1	MA6	A	1519	1	19,26,27	1.93	5 (26%)	18,38,41	2.05	2 (11%)
2	2MA	B	2503	2	17,25,26	1.42	2 (11%)	16,37,40	1.92	3 (18%)
2	2MA	GB	2503	2	17,25,26	1.45	2 (11%)	16,37,40	1.84	3 (18%)
1	4OC	FB	1402	1	20,23,24	1.02	2 (10%)	25,32,35	1.30	2 (8%)
2	PSU	GB	2605	2	18,21,22	1.72	3 (16%)	21,30,33	2.34	6 (28%)
4	5MC	IA	32	4	19,22,23	2.69	4 (21%)	26,32,35	0.98	2 (7%)
1	2MG	FB	1207	1	18,26,27	2.16	3 (16%)	16,38,41	1.50	3 (18%)
4	PSU	IB	55	4	18,21,22	1.66	2 (11%)	21,30,33	1.74	5 (23%)
1	M2G	A	966	1	20,27,28	2.33	4 (20%)	19,40,43	1.43	3 (15%)
2	5MC	B	1962	2	19,22,23	2.82	5 (26%)	26,32,35	1.48	4 (15%)
2	5MC	GB	1962	2	19,22,23	2.50	5 (26%)	26,32,35	1.36	2 (7%)
46	0TD	VA	92	46	8,9,10	2.40	2 (25%)	6,11,13	3.17	4 (66%)
1	M2G	FB	966	1	20,27,28	2.29	5 (25%)	19,40,43	1.30	4 (21%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	MA6	FB	1519	1	19,26,27	2.24	5 (26%)	18,38,41	1.92	3 (16%)
2	5MU	GB	1939	2	19,22,23	2.24	4 (21%)	27,32,35	2.43	8 (29%)
1	MA6	FB	1518	1	19,26,27	2.09	5 (26%)	18,38,41	1.86	3 (16%)

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
1	5MC	A	1404	1	-	0/7/25/26	0/2/2/2
1	UR3	A	1498	1	-	2/7/25/26	0/2/2/2
2	5MU	B	1915	2	-	0/7/25/26	0/2/2/2
2	5MC	B	1942	2	-	0/7/25/26	0/2/2/2
2	5MC	GB	1942	2	-	0/7/25/26	0/2/2/2
4	PSU	NC	55	4	-	1/7/25/26	0/2/2/2
1	PSU	FB	516	1	-	0/7/25/26	0/2/2/2
2	2MU	B	2552	2	-	1/9/27/28	0/2/2/2
2	2MU	GB	2552	2	-	1/9/27/28	0/2/2/2
4	PSU	IA	55	4	-	2/7/25/26	0/2/2/2
1	5MC	A	1407	1	-	0/7/25/26	0/2/2/2
1	5MC	FB	1400	1	-	0/7/25/26	0/2/2/2
1	UR3	FB	1498	1	-	2/7/25/26	0/2/2/2
2	5MU	GB	1915	2	-	0/7/25/26	0/2/2/2
4	4SU	IB	8	4	-	1/7/25/26	0/2/2/2
2	5MU	B	1939	2	-	1/7/25/26	0/2/2/2
4	5MC	IB	32	4	-	0/7/25/26	0/2/2/2
2	PSU	GB	1911	2	-	0/7/25/26	0/2/2/2
4	5MU	IA	54	4	-	0/7/25/26	0/2/2/2
2	OMG	B	2251	2	-	3/5/27/28	0/3/3/3
1	2MG	A	1207	1	-	0/5/27/28	0/3/3/3
4	5MC	NC	32	4	-	0/7/25/26	0/2/2/2
4	PSU	D	55	4	-	1/7/25/26	0/2/2/2
4	5MU	IB	54	4	-	0/7/25/26	0/2/2/2
1	4OC	A	1402	1	-	1/9/29/30	0/2/2/2
1	5MC	FB	1404	1	-	0/7/25/26	0/2/2/2
1	5MC	A	967	1	-	0/7/25/26	0/2/2/2
1	7MG	FB	527	1	-	2/7/37/38	0/3/3/3
2	4OC	B	1920	56,2	-	1/9/27/30	0/2/2/2
1	7MG	A	527	1	-	2/7/37/38	0/3/3/3
4	5MU	NC	54	4	-	0/7/25/26	0/2/2/2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	4SU	NC	8	4	-	2/7/25/26	0/2/2/2
2	PSU	B	1917	2	-	0/7/25/26	0/2/2/2
4	5MC	D	32	4	-	0/7/25/26	0/2/2/2
4	4SU	IA	8	4	-	2/7/25/26	0/2/2/2
1	MA6	A	1518	1	-	2/7/29/30	0/3/3/3
1	5MC	FB	1407	1	-	0/7/25/26	0/2/2/2
2	PSU	GB	1917	2	-	1/7/25/26	0/2/2/2
1	PSU	A	516	1	-	0/7/25/26	0/2/2/2
2	PSU	B	2605	2	-	0/7/25/26	0/2/2/2
46	0TD	AD	92	46	-	2/7/12/14	-
4	4SU	D	8	4	-	1/7/25/26	0/2/2/2
4	5MU	D	54	4	-	0/7/25/26	0/2/2/2
1	5MC	FB	967	1	-	0/7/25/26	0/2/2/2
2	OMG	GB	2251	2	-	3/5/27/28	0/3/3/3
2	4OC	GB	1920	2	-	1/9/27/30	0/2/2/2
2	PSU	B	1911	2	-	0/7/25/26	0/2/2/2
1	5MC	A	1400	1	-	0/7/25/26	0/2/2/2
1	MA6	A	1519	1	-	4/7/29/30	0/3/3/3
2	2MA	B	2503	2	-	1/3/25/26	0/3/3/3
2	2MA	GB	2503	2	-	1/3/25/26	0/3/3/3
1	4OC	FB	1402	1	-	2/9/29/30	0/2/2/2
2	PSU	GB	2605	2	-	0/7/25/26	0/2/2/2
4	5MC	IA	32	4	-	0/7/25/26	0/2/2/2
1	2MG	FB	1207	1	-	0/5/27/28	0/3/3/3
4	PSU	IB	55	4	-	1/7/25/26	0/2/2/2
1	M2G	A	966	1	-	0/7/29/30	0/3/3/3
2	5MC	B	1962	2	-	2/7/25/26	0/2/2/2
2	5MC	GB	1962	2	-	2/7/25/26	0/2/2/2
46	0TD	VA	92	46	-	3/7/12/14	-
1	M2G	FB	966	1	-	0/7/29/30	0/3/3/3
1	MA6	FB	1519	1	-	4/7/29/30	0/3/3/3
2	5MU	GB	1939	2	-	0/7/25/26	0/2/2/2
1	MA6	FB	1518	1	-	2/7/29/30	0/3/3/3

The worst 5 of 237 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	IA	8	4SU	C4-N3	13.44	1.51	1.37
4	D	8	4SU	C4-N3	12.49	1.50	1.37
4	NC	8	4SU	C4-N3	12.20	1.50	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	IB	8	4SU	C4-N3	11.78	1.49	1.37
4	IA	8	4SU	O2-C2	11.75	1.43	1.23

The worst 5 of 298 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	IB	8	4SU	S4-C4-N3	-15.25	104.25	120.20
4	NC	8	4SU	C4-N3-C2	-15.06	112.88	127.31
4	IA	8	4SU	C4-N3-C2	-14.45	113.47	127.31
4	IB	8	4SU	C5-C4-S4	-13.95	108.37	124.31
4	D	8	4SU	C4-N3-C2	-13.80	114.09	127.31

There are no chirality outliers.

5 of 57 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	1402	4OC	C1'-C2'-O2'-CM2
1	A	1498	UR3	O4'-C4'-C5'-O5'
1	A	1518	MA6	C5-C6-N6-C9
1	A	1519	MA6	O4'-C4'-C5'-O5'
2	B	1920	4OC	C3'-C2'-O2'-CM2

There are no ring outliers.

43 monomers are involved in 78 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	1498	UR3	2	0
2	B	1915	5MU	1	0
2	GB	1942	5MC	1	0
4	NC	55	PSU	1	0
2	B	2552	2MU	1	0
4	IA	55	PSU	1	0
1	A	1407	5MC	1	0
1	FB	1498	UR3	3	0
2	GB	1915	5MU	1	0
4	IB	8	4SU	2	0
2	B	1939	5MU	1	0
4	IA	54	5MU	4	0
2	B	2251	OMG	3	0
1	A	1207	2MG	3	0
4	NC	32	5MC	2	0

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	1402	4OC	1	0
1	A	967	5MC	4	0
1	FB	527	7MG	1	0
2	B	1920	4OC	4	0
1	A	527	7MG	1	0
4	NC	54	5MU	4	0
1	A	1518	MA6	1	0
1	FB	1407	5MC	1	0
2	GB	1917	PSU	2	0
46	AD	92	0TD	1	0
4	D	8	4SU	3	0
1	FB	967	5MC	4	0
2	GB	2251	OMG	3	0
2	GB	1920	4OC	1	0
1	A	1519	MA6	1	0
2	B	2503	2MA	3	0
2	GB	2503	2MA	3	0
1	FB	1402	4OC	2	0
4	IA	32	5MC	3	0
1	FB	1207	2MG	3	0
1	A	966	M2G	2	0
2	B	1962	5MC	1	0
2	GB	1962	5MC	1	0
46	VA	92	0TD	1	0
1	FB	966	M2G	1	0
1	FB	1519	MA6	1	0
2	GB	1939	5MU	2	0
1	FB	1518	MA6	1	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 1440 ligands modelled in this entry, 1438 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the

expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# $ Z > 2$	Counts	RMSZ	# $ Z > 2$
57	BLS	GB	9001	-	28,31,31	3.11	10 (35%)	26,43,43	2.19	8 (30%)
57	BLS	B	9001	-	28,31,31	3.12	10 (35%)	26,43,43	2.68	9 (34%)

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
57	BLS	GB	9001	-	-	7/21/38/38	0/2/2/2
57	BLS	B	9001	-	-	6/21/38/38	0/2/2/2

The worst 5 of 20 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	B	9001	BLS	C14-N12	9.09	1.54	1.35
57	GB	9001	BLS	C14-N12	8.65	1.53	1.35
57	GB	9001	BLS	C7-N6	7.71	1.50	1.34
57	B	9001	BLS	C7-N6	6.83	1.48	1.34
57	B	9001	BLS	C11-N12	4.89	1.57	1.47

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	B	9001	BLS	C1'-C2'-C3'	-9.47	110.80	122.45
57	GB	9001	BLS	C1'-C2'-C3'	-7.62	113.08	122.45
57	B	9001	BLS	C4-N3-C2	3.95	120.34	116.34
57	B	9001	BLS	N15-C14-N12	3.71	122.71	118.64
57	B	9001	BLS	O4-C6'-O3	3.27	131.49	124.08

There are no chirality outliers.

5 of 13 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
57	B	9001	BLS	C11-C10-C9-C8
57	B	9001	BLS	C11-C10-C9-N9
57	B	9001	BLS	C10-C11-N12-C13
57	B	9001	BLS	C10-C11-N12-C14

Continued on next page...

Continued from previous page...

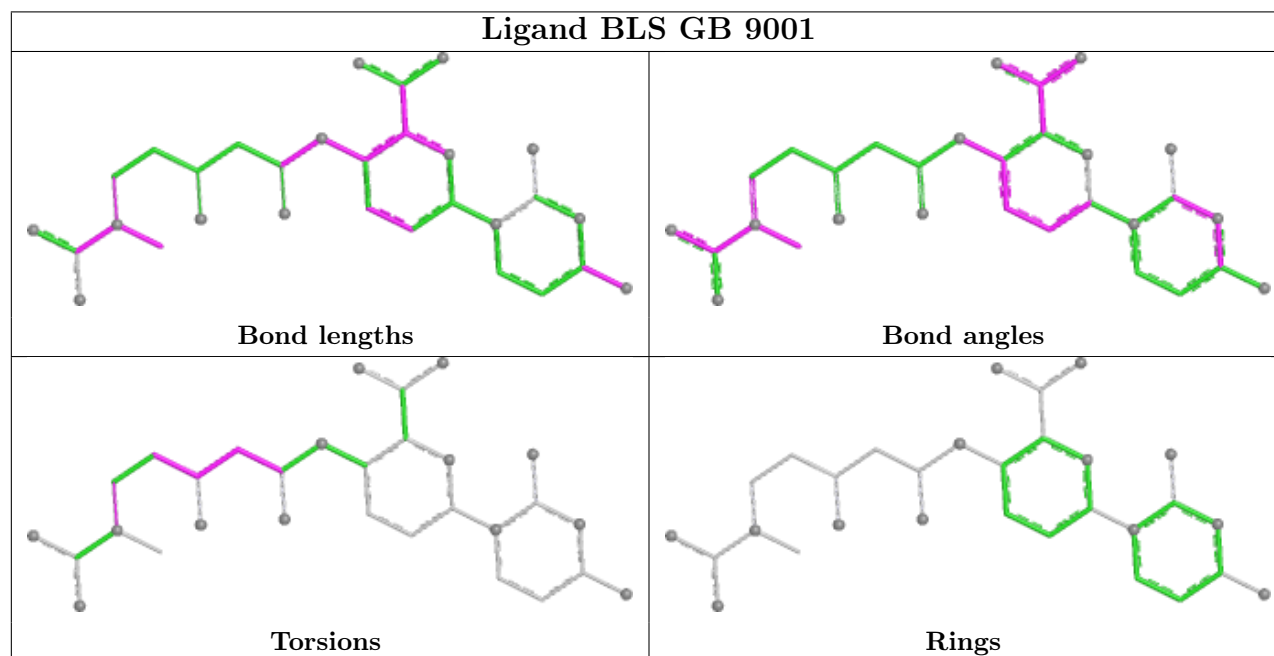
Mol	Chain	Res	Type	Atoms
57	GB	9001	BLS	C11-C10-C9-C8

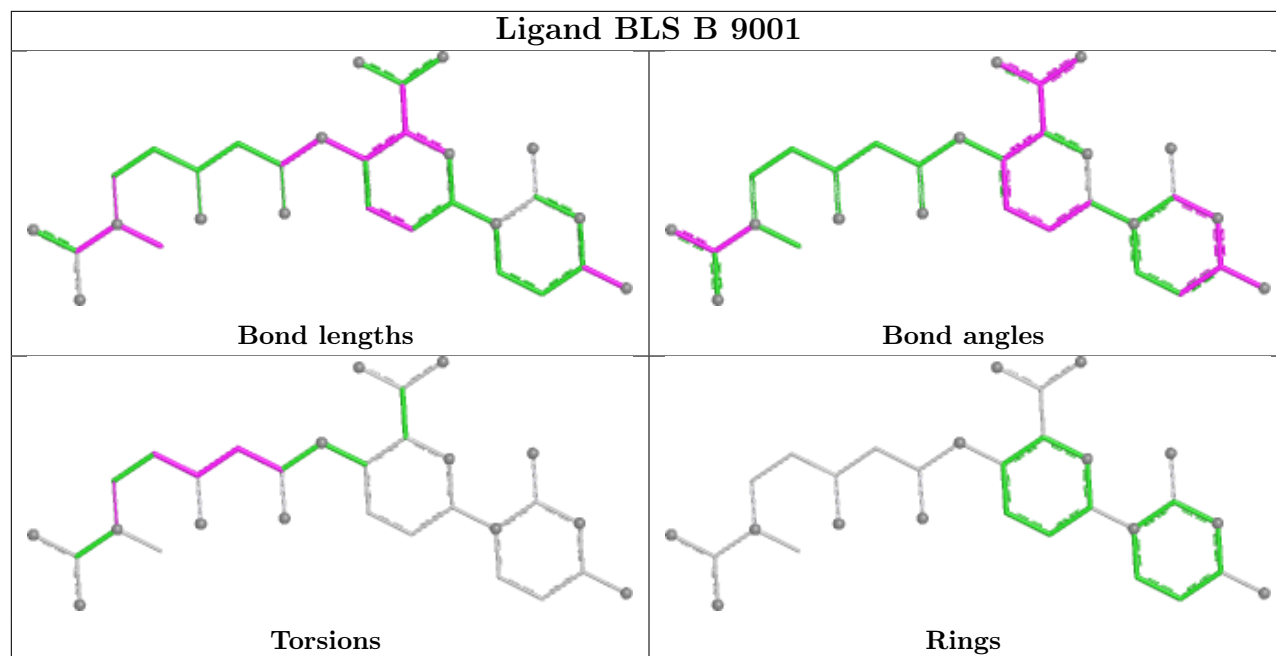
There are no ring outliers.

2 monomers are involved in 11 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	GB	9001	BLS	7	0
57	B	9001	BLS	4	0

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

Warning: The R factor obtained from EDS is 0.2476, which does not match the depositor's R factor of 0.0. Please interpret the results in this section carefully.

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	A	1495/1507 (99%)	-0.73	3 (0%) 92 92	92, 150, 224, 269	0
1	FB	1495/1507 (99%)	-0.52	6 (0%) 89 86	99, 138, 232, 276	0
2	B	2869/2880 (99%)	-0.77	8 (0%) 90 89	73, 105, 203, 272	0
2	GB	2869/2880 (99%)	-0.65	7 (0%) 92 92	81, 114, 229, 316	0
3	C	120/120 (100%)	-0.78	0 100 100	129, 165, 182, 187	0
3	HB	120/120 (100%)	-0.40	0 100 100	139, 177, 198, 207	0
4	D	73/77 (94%)	-0.53	0 100 100	135, 221, 238, 244	0
4	IA	73/77 (94%)	-0.49	1 (1%) 73 64	130, 161, 182, 190	0
4	IB	73/77 (94%)	-0.35	1 (1%) 73 64	158, 256, 274, 283	0
4	NC	73/77 (94%)	-0.43	0 100 100	148, 189, 217, 220	0
5	E	275/275 (100%)	-0.38	3 (1%) 77 70	69, 83, 95, 102	0
5	JB	275/275 (100%)	-0.12	4 (1%) 71 62	84, 104, 121, 128	0
6	F	204/206 (99%)	-0.23	3 (1%) 71 62	82, 119, 139, 147	0
6	KB	204/206 (99%)	-0.17	3 (1%) 71 62	81, 107, 132, 144	0
7	G	202/205 (98%)	-0.45	0 100 100	77, 107, 121, 133	0
7	LB	202/205 (98%)	-0.24	3 (1%) 71 62	82, 126, 141, 150	0
8	H	181/182 (99%)	-0.05	4 (2%) 62 53	165, 174, 184, 186	0
8	MB	181/182 (99%)	-0.09	4 (2%) 62 53	181, 188, 199, 202	0
9	I	174/180 (96%)	-0.28	0 100 100	116, 131, 138, 155	0
9	NB	174/180 (96%)	-0.01	4 (2%) 61 51	149, 188, 215, 222	0
10	J	146/148 (98%)	-0.39	0 100 100	107, 130, 149, 153	0
10	OB	146/148 (98%)	-0.21	3 (2%) 63 53	124, 155, 159, 161	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
11	K	140/140 (100%)	-0.05	1 (0%) 84 78	100, 121, 133, 138	0
11	PB	140/140 (100%)	0.07	5 (3%) 46 39	100, 129, 143, 147	0
12	L	122/122 (100%)	-0.34	0 100 100	94, 108, 119, 123	0
12	QB	122/122 (100%)	-0.43	0 100 100	88, 96, 103, 107	0
13	M	150/150 (100%)	-0.05	2 (1%) 74 66	82, 110, 137, 139	0
13	RB	150/150 (100%)	-0.01	3 (2%) 64 55	104, 124, 140, 142	0
14	N	141/141 (100%)	0.01	0 100 100	100, 123, 140, 148	0
14	SB	141/141 (100%)	0.06	4 (2%) 55 47	106, 137, 154, 160	0
15	O	118/118 (100%)	-0.04	2 (1%) 69 59	93, 111, 126, 130	0
15	TB	118/118 (100%)	0.10	5 (4%) 41 36	90, 106, 116, 121	0
16	P	110/112 (98%)	0.40	9 (8%) 19 20	147, 157, 163, 164	0
16	UB	110/112 (98%)	0.28	7 (6%) 27 26	153, 169, 181, 188	0
17	Q	137/146 (93%)	-0.22	1 (0%) 84 78	111, 125, 174, 192	0
17	VB	137/146 (93%)	-0.47	0 100 100	93, 108, 139, 148	0
18	R	117/118 (99%)	-0.10	0 100 100	83, 116, 131, 132	0
18	WB	117/118 (99%)	-0.09	4 (3%) 48 41	98, 129, 143, 146	0
19	S	101/101 (100%)	-0.34	1 (0%) 79 71	86, 126, 132, 136	0
19	XB	101/101 (100%)	-0.35	3 (2%) 52 45	96, 141, 148, 150	0
20	T	112/113 (99%)	-0.42	0 100 100	78, 97, 113, 122	0
20	YB	112/113 (99%)	-0.19	0 100 100	83, 101, 121, 127	0
21	U	95/96 (98%)	-0.24	0 100 100	86, 92, 102, 109	0
21	ZB	95/96 (98%)	0.03	1 (1%) 77 70	109, 120, 129, 135	0
22	AC	107/110 (97%)	0.22	6 (5%) 31 29	120, 125, 139, 143	0
22	V	107/110 (97%)	-0.39	0 100 100	101, 108, 120, 126	0
23	BC	189/206 (91%)	-0.18	2 (1%) 77 70	143, 165, 176, 180	0
23	W	189/206 (91%)	-0.25	0 100 100	131, 152, 162, 164	0
24	CC	84/85 (98%)	0.35	7 (8%) 19 20	128, 134, 146, 154	0
24	X	84/85 (98%)	0.41	7 (8%) 19 20	119, 125, 139, 146	0
25	DC	97/98 (98%)	0.05	3 (3%) 51 44	94, 114, 137, 145	0
25	Y	97/98 (98%)	-0.05	1 (1%) 79 71	83, 105, 132, 140	0
26	EC	70/72 (97%)	-0.10	1 (1%) 73 64	123, 129, 136, 138	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
26	Z	70/72 (97%)	-0.38	0 100 100	95, 101, 107, 116	0
27	AA	60/60 (100%)	-0.20	0 100 100	104, 117, 128, 134	0
27	FC	60/60 (100%)	-0.01	1 (1%) 69 59	118, 131, 141, 142	0
28	BA	69/71 (97%)	-0.44	0 100 100	186, 191, 204, 206	0
28	GC	69/71 (97%)	-0.33	0 100 100	200, 207, 212, 213	0
29	CA	59/60 (98%)	-0.34	0 100 100	90, 115, 125, 130	0
29	HC	59/60 (98%)	-0.50	1 (1%) 69 59	81, 113, 123, 124	0
30	DA	53/54 (98%)	0.06	2 (3%) 44 38	184, 184, 185, 185	0
30	IC	53/54 (98%)	0.34	2 (3%) 44 38	207, 213, 217, 219	0
31	EA	48/49 (97%)	-0.39	0 100 100	72, 77, 83, 88	0
31	JC	48/49 (97%)	-0.01	1 (2%) 63 53	89, 91, 100, 110	0
32	FA	64/65 (98%)	0.32	2 (3%) 51 44	93, 102, 119, 127	0
32	KC	64/65 (98%)	0.20	0 100 100	101, 112, 128, 135	0
33	GA	37/37 (100%)	1.91	17 (45%) 1 1	185, 186, 188, 188	0
33	LC	37/37 (100%)	1.79	12 (32%) 1 2	187, 189, 190, 191	0
34	HA	11/27 (40%)	0.51	2 (18%) 4 6	127, 142, 152, 153	0
34	MC	11/27 (40%)	-0.05	0 100 100	143, 154, 164, 168	0
35	JA	110/365 (30%)	-0.19	3 (2%) 56 48	158, 176, 196, 210	0
35	KA	55/365 (15%)	-0.19	1 (1%) 67 58	172, 187, 214, 219	0
35	OC	110/365 (30%)	-0.10	3 (2%) 56 48	186, 196, 207, 214	0
35	PC	55/365 (15%)	-0.21	2 (3%) 46 39	195, 202, 215, 219	0
36	LA	234/256 (91%)	-0.32	1 (0%) 89 86	148, 161, 170, 174	0
36	QC	234/256 (91%)	-0.15	5 (2%) 63 53	167, 184, 197, 202	0
37	MA	206/239 (86%)	-0.27	5 (2%) 59 51	153, 163, 175, 182	0
37	RC	206/239 (86%)	-0.22	3 (1%) 71 62	159, 177, 193, 200	0
38	NA	208/209 (99%)	0.39	15 (7%) 23 22	135, 159, 171, 177	0
38	SC	208/209 (99%)	0.07	14 (6%) 25 25	117, 126, 133, 137	0
39	OA	151/162 (93%)	-0.13	6 (3%) 43 37	128, 140, 147, 155	0
39	TC	151/162 (93%)	-0.24	3 (1%) 64 55	124, 140, 150, 152	0
40	PA	101/101 (100%)	-0.37	1 (0%) 79 71	119, 128, 134, 146	0
40	UC	101/101 (100%)	-0.40	0 100 100	141, 149, 156, 163	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
41	QA	155/156 (99%)	-0.18	2 (1%) 74 66	146, 168, 177, 181	0
41	VC	155/156 (99%)	0.03	5 (3%) 50 42	167, 185, 197, 201	0
42	RA	138/138 (100%)	-0.18	1 (0%) 84 78	130, 145, 149, 153	0
42	WC	138/138 (100%)	0.07	6 (4%) 40 35	128, 144, 156, 163	0
43	SA	127/128 (99%)	0.43	12 (9%) 15 17	167, 190, 195, 199	0
43	XC	127/128 (99%)	0.50	13 (10%) 13 15	176, 212, 221, 227	0
44	TA	98/105 (93%)	0.37	9 (9%) 16 17	166, 189, 198, 201	0
44	YC	98/105 (93%)	0.42	6 (6%) 28 27	176, 197, 211, 213	0
45	UA	116/129 (89%)	-0.21	2 (1%) 69 59	104, 128, 135, 139	0
45	ZC	116/129 (89%)	-0.16	2 (1%) 69 59	126, 154, 160, 162	0
46	AD	121/132 (91%)	-0.07	2 (1%) 69 59	109, 116, 124, 136	0
46	VA	121/132 (91%)	0.13	5 (4%) 42 36	115, 124, 134, 139	0
47	BD	117/126 (92%)	0.18	6 (5%) 34 30	179, 210, 214, 215	0
47	WA	117/126 (92%)	0.03	7 (5%) 29 27	161, 193, 196, 198	0
48	CD	60/61 (98%)	0.59	3 (5%) 35 31	180, 189, 208, 209	0
48	XA	60/61 (98%)	0.41	0 100 100	164, 171, 193, 194	0
49	DD	88/89 (98%)	-0.11	2 (2%) 61 51	126, 142, 153, 155	0
49	YA	88/89 (98%)	-0.19	3 (3%) 48 41	106, 126, 136, 137	0
50	ED	83/88 (94%)	0.04	3 (3%) 46 39	112, 120, 133, 148	0
50	ZA	83/88 (94%)	0.18	6 (7%) 23 22	150, 160, 174, 183	0
51	AB	99/105 (94%)	0.01	6 (6%) 28 27	116, 138, 144, 148	0
51	FD	99/105 (94%)	-0.19	2 (2%) 64 55	115, 124, 130, 132	0
52	BB	70/88 (79%)	-0.48	0 100 100	119, 132, 140, 147	0
52	GD	70/88 (79%)	-0.12	1 (1%) 73 64	145, 156, 163, 165	0
53	CB	83/93 (89%)	0.33	3 (3%) 46 39	171, 198, 201, 203	0
53	HD	83/93 (89%)	0.18	2 (2%) 59 51	179, 212, 217, 221	0
54	DB	99/106 (93%)	0.50	12 (12%) 10 12	152, 164, 174, 175	0
54	ID	99/106 (93%)	0.21	7 (7%) 23 23	115, 133, 145, 146	0
55	EB	24/27 (88%)	0.77	2 (8%) 19 20	179, 189, 195, 198	0
55	JD	24/27 (88%)	0.97	4 (16%) 5 7	202, 210, 219, 223	0
All	All	21292/22952 (92%)	-0.33	368 (1%) 69 59	69, 131, 210, 316	0

The worst 5 of 368 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
38	NA	120	LEU	7.2
24	X	4	LYS	6.6
42	WC	1	MET	6.0
49	DD	57	LEU	5.7
33	LC	12	ASP	5.7

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
4	4SU	D	8	20/21	0.63	0.09	223,225,227,227	0
4	PSU	D	55	20/21	0.66	0.07	239,243,246,247	0
4	PSU	IB	55	20/21	0.68	0.08	276,281,283,284	0
4	5MU	IB	54	21/22	0.73	0.09	275,277,280,281	0
4	5MU	D	54	21/22	0.74	0.07	237,240,244,246	0
4	PSU	NC	55	20/21	0.75	0.08	211,216,222,223	0
4	4SU	IA	8	20/21	0.78	0.08	158,160,162,163	0
4	5MC	IB	32	21/22	0.79	0.10	204,204,204,204	0
2	PSU	GB	1911	20/21	0.81	0.09	127,133,134,135	0
4	4SU	IB	8	20/21	0.81	0.09	254,257,259,260	0
4	4SU	NC	8	20/21	0.82	0.07	185,190,192,193	0
2	5MU	B	1915	21/22	0.84	0.06	129,131,133,134	0
4	5MC	D	32	21/22	0.86	0.07	212,212,212,212	0
4	5MC	NC	32	21/22	0.87	0.10	156,157,157,157	0
1	5MC	FB	967	21/22	0.87	0.12	160,163,166,168	0
1	PSU	A	516	20/21	0.87	0.07	139,142,145,146	0
2	5MU	GB	1915	21/22	0.88	0.05	143,146,149,150	0
4	5MU	NC	54	21/22	0.88	0.10	213,217,223,226	0
1	2MG	FB	1207	24/25	0.88	0.08	171,174,176,178	0
4	PSU	IA	55	20/21	0.88	0.07	185,189,193,195	0
2	5MU	B	1939	21/22	0.88	0.11	83,84,84,84	0
4	5MU	IA	54	21/22	0.88	0.07	184,188,192,194	0
1	PSU	FB	516	20/21	0.89	0.06	132,134,138,138	0
2	OMG	GB	2251	24/25	0.90	0.11	95,97,100,100	0
2	4OC	GB	1920	21/23	0.90	0.11	123,127,129,131	0
1	5MC	A	967	21/22	0.91	0.09	139,142,145,147	0
4	5MC	IA	32	21/22	0.91	0.10	138,139,139,139	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
1	4OC	A	1402	22/23	0.92	0.11	117,118,120,120	0
1	4OC	FB	1402	22/23	0.92	0.09	134,136,138,138	0
2	5MC	B	1942	21/22	0.92	0.07	90,92,93,94	0
2	5MC	B	1962	21/22	0.92	0.10	90,92,94,95	0
2	PSU	GB	1917	20/21	0.92	0.06	129,132,136,137	0
2	PSU	B	1911	20/21	0.92	0.06	113,117,119,120	0
2	5MU	GB	1939	21/22	0.92	0.10	86,88,89,89	0
1	2MG	A	1207	24/25	0.92	0.08	163,164,166,167	0
1	5MC	A	1400	21/22	0.93	0.10	125,127,130,132	0
2	5MC	GB	1962	21/22	0.93	0.08	93,96,98,99	0
2	2MA	B	2503	23/24	0.93	0.11	76,78,79,80	0
2	2MA	GB	2503	23/24	0.93	0.13	83,84,86,86	0
46	0TD	AD	92	10/11	0.93	0.20	122,122,123,123	0
1	5MC	FB	1400	21/22	0.93	0.13	141,145,148,150	0
2	PSU	B	1917	20/21	0.93	0.06	111,113,117,118	0
1	UR3	FB	1498	21/22	0.94	0.14	130,130,132,132	0
2	4OC	B	1920	21/23	0.94	0.08	106,109,111,113	0
1	7MG	FB	527	24/25	0.94	0.09	122,124,126,127	0
2	5MC	GB	1942	21/22	0.94	0.06	90,93,94,95	0
1	5MC	FB	1404	21/22	0.95	0.09	123,125,126,126	0
1	UR3	A	1498	21/22	0.95	0.09	109,109,110,110	0
2	PSU	GB	2605	20/21	0.95	0.07	85,85,86,87	0
1	M2G	FB	966	25/26	0.95	0.14	157,160,164,165	0
1	M2G	A	966	25/26	0.96	0.09	137,140,143,144	0
1	5MC	FB	1407	21/22	0.96	0.08	121,124,125,126	0
2	OMG	B	2251	24/25	0.96	0.07	87,89,92,92	0
1	7MG	A	527	24/25	0.96	0.09	125,127,129,130	0
2	2MU	B	2552	21/23	0.96	0.10	86,87,88,89	0
2	2MU	GB	2552	21/23	0.96	0.06	86,87,88,89	0
2	PSU	B	2605	20/21	0.96	0.07	78,79,80,81	0
1	MA6	A	1518	24/25	0.96	0.10	98,102,104,104	0
1	5MC	A	1404	21/22	0.97	0.07	105,107,108,108	0
1	MA6	FB	1519	24/25	0.97	0.12	117,121,123,123	0
1	5MC	A	1407	21/22	0.97	0.06	108,110,112,112	0
46	0TD	VA	92	10/11	0.97	0.12	125,126,126,126	0
1	MA6	A	1519	24/25	0.97	0.11	98,101,103,103	0
1	MA6	FB	1518	24/25	0.98	0.09	116,119,122,123	0

6.3 Carbohydrates ⓘ

There are no monosaccharides in this entry.

6.4 Ligands ⓘ

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
56	MG	GB	9272	1/1	-0.51	0.24	194,194,194,194	0
56	MG	FB	1638	1/1	-0.50	0.50	198,198,198,198	0
56	MG	B	9072	1/1	-0.41	0.18	248,248,248,248	0
56	MG	B	9207	1/1	-0.30	0.24	185,185,185,185	0
56	MG	FB	1644	1/1	-0.29	0.18	239,239,239,239	0
56	MG	GB	9320	1/1	-0.29	0.14	223,223,223,223	0
56	MG	FB	1612	1/1	-0.28	0.26	201,201,201,201	0
56	MG	HB	208	1/1	-0.24	0.31	177,177,177,177	0
56	MG	A	1747	1/1	-0.22	0.18	215,215,215,215	0
56	MG	GB	9298	1/1	-0.20	0.20	250,250,250,250	0
56	MG	FB	1765	1/1	-0.18	0.15	234,234,234,234	0
56	MG	GB	9247	1/1	-0.18	0.11	278,278,278,278	0
56	MG	B	9378	1/1	-0.18	0.19	254,254,254,254	0
56	MG	A	1764	1/1	-0.14	0.29	204,204,204,204	0
56	MG	A	1778	1/1	-0.14	0.22	156,156,156,156	0
56	MG	GB	9136	1/1	-0.12	0.21	154,154,154,154	0
56	MG	IB	101	1/1	-0.07	0.14	243,243,243,243	0
56	MG	A	1641	1/1	-0.06	0.23	154,154,154,154	0
56	MG	A	1634	1/1	-0.06	0.29	165,165,165,165	0
56	MG	FB	1646	1/1	-0.05	0.29	170,170,170,170	0
56	MG	A	1652	1/1	-0.05	0.18	232,232,232,232	0
56	MG	A	1650	1/1	-0.05	0.34	170,170,170,170	0
56	MG	A	1620	1/1	-0.04	0.30	201,201,201,201	0
56	MG	A	1660	1/1	-0.02	0.19	252,252,252,252	0
56	MG	A	1686	1/1	-0.01	0.38	169,169,169,169	0
56	MG	GB	9278	1/1	-0.00	0.27	149,149,149,149	0
56	MG	HB	209	1/1	0.01	0.22	183,183,183,183	0
56	MG	B	9305	1/1	0.02	0.27	207,207,207,207	0
56	MG	GB	9269	1/1	0.02	0.16	146,146,146,146	0
56	MG	H	202	1/1	0.02	0.14	161,161,161,161	0
56	MG	B	9285	1/1	0.03	0.17	164,164,164,164	0
56	MG	GB	9118	1/1	0.03	0.17	144,144,144,144	0
56	MG	IA	102	1/1	0.03	0.31	162,162,162,162	0
56	MG	GC	102	1/1	0.03	0.21	205,205,205,205	0
56	MG	GB	9066	1/1	0.04	0.25	176,176,176,176	0
56	MG	A	1653	1/1	0.06	0.11	260,260,260,260	0
56	MG	FB	1671	1/1	0.06	0.15	255,255,255,255	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9157	1/1	0.07	0.33	128,128,128,128	0
56	MG	FB	1705	1/1	0.07	0.17	200,200,200,200	0
56	MG	HB	215	1/1	0.08	0.14	189,189,189,189	0
56	MG	GB	9121	1/1	0.08	0.24	186,186,186,186	0
56	MG	C	213	1/1	0.08	0.23	156,156,156,156	0
56	MG	A	1638	1/1	0.10	0.17	188,188,188,188	0
56	MG	GB	9106	1/1	0.10	0.24	142,142,142,142	0
56	MG	IA	101	1/1	0.11	0.35	152,152,152,152	0
56	MG	GB	9117	1/1	0.11	0.32	160,160,160,160	0
56	MG	HB	201	1/1	0.13	0.42	130,130,130,130	0
56	MG	FB	1623	1/1	0.13	0.31	136,136,136,136	0
56	MG	HB	202	1/1	0.14	0.29	149,149,149,149	0
56	MG	GB	9057	1/1	0.14	0.26	145,145,145,145	0
56	MG	NA	302	1/1	0.14	0.12	163,163,163,163	0
56	MG	HB	204	1/1	0.15	0.33	138,138,138,138	0
56	MG	GB	9301	1/1	0.15	0.25	252,252,252,252	0
56	MG	A	1717	1/1	0.16	0.29	154,154,154,154	0
56	MG	GB	9391	1/1	0.16	0.17	172,172,172,172	0
56	MG	GB	9167	1/1	0.16	0.24	166,166,166,166	0
56	MG	A	1635	1/1	0.16	0.28	168,168,168,168	0
56	MG	NA	301	1/1	0.16	0.30	159,159,159,159	0
56	MG	A	1642	1/1	0.17	0.41	143,143,143,143	0
56	MG	FB	1601	1/1	0.17	0.37	117,117,117,117	0
56	MG	HB	220	1/1	0.17	0.18	159,159,159,159	0
56	MG	A	1664	1/1	0.17	0.20	172,172,172,172	0
56	MG	GB	9208	1/1	0.17	0.14	210,210,210,210	0
56	MG	FB	1710	1/1	0.18	0.17	155,155,155,155	0
56	MG	FB	1643	1/1	0.19	0.44	138,138,138,138	0
56	MG	HB	205	1/1	0.19	0.36	140,140,140,140	0
56	MG	GB	9195	1/1	0.20	0.10	172,172,172,172	0
56	MG	GB	9224	1/1	0.20	0.18	152,152,152,152	0
56	MG	B	9256	1/1	0.21	0.24	157,157,157,157	0
56	MG	A	1644	1/1	0.21	0.24	159,159,159,159	0
56	MG	GB	9306	1/1	0.21	0.16	151,151,151,151	0
56	MG	GB	9335	1/1	0.22	0.21	141,141,141,141	0
56	MG	HB	210	1/1	0.22	0.26	166,166,166,166	0
56	MG	NB	201	1/1	0.23	0.16	189,189,189,189	0
56	MG	A	1631	1/1	0.23	0.29	142,142,142,142	0
56	MG	FB	1684	1/1	0.24	0.16	140,140,140,140	0
56	MG	FB	1730	1/1	0.24	0.19	167,167,167,167	0
56	MG	A	1657	1/1	0.24	0.24	155,155,155,155	0
56	MG	B	9302	1/1	0.25	0.18	167,167,167,167	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1634	1/1	0.25	0.35	128,128,128,128	0
56	MG	FB	1615	1/1	0.25	0.17	209,209,209,209	0
56	MG	NC	101	1/1	0.25	0.22	189,189,189,189	0
56	MG	RC	302	1/1	0.25	0.16	161,161,161,161	0
56	MG	GB	9139	1/1	0.26	0.21	166,166,166,166	0
56	MG	A	1782	1/1	0.27	0.15	159,159,159,159	0
56	MG	A	1742	1/1	0.27	0.14	160,160,160,160	0
56	MG	FB	1665	1/1	0.27	0.22	188,188,188,188	0
56	MG	A	1643	1/1	0.28	0.34	170,170,170,170	0
56	MG	GB	9181	1/1	0.29	0.22	135,135,135,135	0
56	MG	FB	1618	1/1	0.29	0.49	111,111,111,111	0
56	MG	A	1618	1/1	0.29	0.38	141,141,141,141	0
56	MG	GB	9052	1/1	0.29	0.27	132,132,132,132	0
56	MG	IB	102	1/1	0.30	0.09	246,246,246,246	0
56	MG	GB	9383	1/1	0.30	0.16	137,137,137,137	0
56	MG	GB	9093	1/1	0.30	0.25	116,116,116,116	0
56	MG	FB	1716	1/1	0.30	0.38	197,197,197,197	0
56	MG	B	9280	1/1	0.30	0.17	183,183,183,183	0
56	MG	FB	1630	1/1	0.31	0.30	128,128,128,128	0
56	MG	A	1760	1/1	0.31	0.16	178,178,178,178	0
56	MG	GB	9373	1/1	0.31	0.16	157,157,157,157	0
56	MG	B	9024	1/1	0.31	0.30	120,120,120,120	0
56	MG	FB	1720	1/1	0.31	0.18	164,164,164,164	0
56	MG	FB	1635	1/1	0.32	0.17	151,151,151,151	0
56	MG	D	102	1/1	0.32	0.18	185,185,185,185	0
56	MG	GB	9028	1/1	0.32	0.27	112,112,112,112	0
56	MG	A	1683	1/1	0.32	0.16	166,166,166,166	0
56	MG	IA	108	1/1	0.32	0.11	165,165,165,165	0
56	MG	A	1714	1/1	0.33	0.20	111,111,111,111	0
56	MG	GB	9288	1/1	0.33	0.23	202,202,202,202	0
56	MG	A	1612	1/1	0.33	0.37	125,125,125,125	0
56	MG	FB	1659	1/1	0.33	0.22	122,122,122,122	0
56	MG	FB	1662	1/1	0.33	0.28	139,139,139,139	0
56	MG	B	9399	1/1	0.34	0.22	175,175,175,175	0
56	MG	C	201	1/1	0.34	0.42	132,132,132,132	0
56	MG	FB	1675	1/1	0.34	0.28	197,197,197,197	0
56	MG	HB	207	1/1	0.35	0.30	146,146,146,146	0
56	MG	A	1674	1/1	0.35	0.30	133,133,133,133	0
56	MG	GB	9140	1/1	0.36	0.24	102,102,102,102	0
56	MG	GB	9166	1/1	0.36	0.20	129,129,129,129	0
56	MG	A	1617	1/1	0.36	0.19	193,193,193,193	0
56	MG	FB	1777	1/1	0.36	0.32	135,135,135,135	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9066	1/1	0.36	0.23	130,130,130,130	0
56	MG	B	9183	1/1	0.36	0.17	172,172,172,172	0
56	MG	SB	201	1/1	0.36	0.29	143,143,143,143	0
56	MG	FB	1653	1/1	0.36	0.30	146,146,146,146	0
56	MG	FB	1606	1/1	0.36	0.22	137,137,137,137	0
56	MG	GB	9078	1/1	0.36	0.20	185,185,185,185	0
56	MG	TC	201	1/1	0.36	0.37	120,120,120,120	0
56	MG	B	9174	1/1	0.37	0.35	113,113,113,113	0
56	MG	LB	302	1/1	0.37	0.12	137,137,137,137	0
56	MG	D	103	1/1	0.37	0.20	147,147,147,147	0
56	MG	B	9119	1/1	0.37	0.33	114,114,114,114	0
56	MG	GB	9228	1/1	0.38	0.18	226,226,226,226	0
56	MG	GB	9337	1/1	0.38	0.19	147,147,147,147	0
56	MG	FB	1686	1/1	0.38	0.23	139,139,139,139	0
56	MG	A	1672	1/1	0.38	0.17	158,158,158,158	0
56	MG	FB	1708	1/1	0.38	0.15	152,152,152,152	0
56	MG	LA	5800	1/1	0.38	0.20	163,163,163,163	0
56	MG	A	1640	1/1	0.39	0.23	140,140,140,140	0
56	MG	A	1692	1/1	0.39	0.31	149,149,149,149	0
56	MG	GB	9024	1/1	0.39	0.22	151,151,151,151	0
56	MG	B	9282	1/1	0.39	0.15	153,153,153,153	0
56	MG	A	1685	1/1	0.39	0.13	154,154,154,154	0
56	MG	B	9237	1/1	0.39	0.16	165,165,165,165	0
56	MG	FB	1691	1/1	0.39	0.18	144,144,144,144	0
56	MG	GB	9183	1/1	0.40	0.20	169,169,169,169	0
56	MG	UB	204	1/1	0.40	0.18	161,161,161,161	0
56	MG	B	9131	1/1	0.40	0.23	92,92,92,92	0
56	MG	A	1719	1/1	0.40	0.27	170,170,170,170	0
56	MG	GB	9132	1/1	0.40	0.29	151,151,151,151	0
56	MG	HB	217	1/1	0.40	0.23	135,135,135,135	0
56	MG	B	9116	1/1	0.41	0.25	127,127,127,127	0
56	MG	QA	201	1/1	0.41	0.33	144,144,144,144	0
56	MG	GB	9229	1/1	0.41	0.17	135,135,135,135	0
56	MG	GB	9235	1/1	0.41	0.18	156,156,156,156	0
56	MG	GB	9381	1/1	0.41	0.16	132,132,132,132	0
56	MG	FB	1780	1/1	0.41	0.15	184,184,184,184	0
56	MG	A	1677	1/1	0.41	0.12	237,237,237,237	0
56	MG	FB	1648	1/1	0.42	0.33	108,108,108,108	0
56	MG	FB	1651	1/1	0.42	0.20	186,186,186,186	0
56	MG	A	1622	1/1	0.42	0.29	125,125,125,125	0
56	MG	FB	1622	1/1	0.43	0.25	128,128,128,128	0
56	MG	FB	1688	1/1	0.43	0.25	137,137,137,137	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	A	1702	1/1	0.43	0.15	211,211,211,211	0
56	MG	FB	1757	1/1	0.43	0.17	170,170,170,170	0
56	MG	JA	401	1/1	0.44	0.09	169,169,169,169	0
56	MG	FB	1633	1/1	0.44	0.18	153,153,153,153	0
56	MG	GB	9303	1/1	0.44	0.16	165,165,165,165	0
56	MG	FB	1751	1/1	0.44	0.14	174,174,174,174	0
56	MG	GB	9027	1/1	0.44	0.25	140,140,140,140	0
56	MG	MC	101	1/1	0.44	0.38	130,130,130,130	0
56	MG	B	9177	1/1	0.44	0.28	126,126,126,126	0
56	MG	NC	102	1/1	0.44	0.14	165,165,165,165	0
56	MG	GB	9115	1/1	0.44	0.28	109,109,109,109	0
56	MG	A	1602	1/1	0.44	0.34	124,124,124,124	0
56	MG	IA	104	1/1	0.45	0.14	140,140,140,140	0
56	MG	GB	9257	1/1	0.45	0.19	124,124,124,124	0
56	MG	GB	9205	1/1	0.45	0.13	158,158,158,158	0
56	MG	GB	9017	1/1	0.45	0.19	132,132,132,132	0
56	MG	GB	9018	1/1	0.45	0.24	136,136,136,136	0
56	MG	C	215	1/1	0.45	0.10	137,137,137,137	0
56	MG	A	1639	1/1	0.45	0.15	166,166,166,166	0
56	MG	A	1721	1/1	0.45	0.44	169,169,169,169	0
56	MG	B	9139	1/1	0.46	0.24	147,147,147,147	0
56	MG	B	9088	1/1	0.46	0.35	108,108,108,108	0
56	MG	FB	1699	1/1	0.46	0.25	120,120,120,120	0
56	MG	B	9036	1/1	0.46	0.22	75,75,75,75	0
56	MG	A	1739	1/1	0.46	0.19	161,161,161,161	0
56	MG	A	1689	1/1	0.46	0.17	184,184,184,184	0
56	MG	A	1656	1/1	0.47	0.18	161,161,161,161	0
56	MG	FB	1641	1/1	0.47	0.28	131,131,131,131	0
56	MG	GB	9013	1/1	0.47	0.29	111,111,111,111	0
56	MG	XB	202	1/1	0.47	0.14	140,140,140,140	0
56	MG	B	9201	1/1	0.47	0.17	159,159,159,159	0
56	MG	GB	9398	1/1	0.48	0.17	165,165,165,165	0
56	MG	HB	214	1/1	0.48	0.15	163,163,163,163	0
56	MG	A	1636	1/1	0.48	0.23	138,138,138,138	0
56	MG	C	214	1/1	0.48	0.14	170,170,170,170	0
56	MG	GB	9295	1/1	0.48	0.12	182,182,182,182	0
56	MG	GB	9248	1/1	0.48	0.12	158,158,158,158	0
56	MG	B	9102	1/1	0.48	0.28	107,107,107,107	0
56	MG	A	1754	1/1	0.48	0.11	201,201,201,201	0
56	MG	B	9144	1/1	0.48	0.24	117,117,117,117	0
56	MG	BD	201	1/1	0.48	0.11	182,182,182,182	0
56	MG	FB	1624	1/1	0.49	0.19	136,136,136,136	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9114	1/1	0.49	0.22	134,134,134,134	0
56	MG	GB	9350	1/1	0.49	0.11	143,143,143,143	0
56	MG	GB	9390	1/1	0.49	0.13	238,238,238,238	0
56	MG	B	9349	1/1	0.50	0.13	163,163,163,163	0
56	MG	GB	9097	1/1	0.50	0.24	134,134,134,134	0
56	MG	MA	304	1/1	0.50	0.15	165,165,165,165	0
56	MG	OB	201	1/1	0.50	0.17	148,148,148,148	0
56	MG	A	1768	1/1	0.50	0.11	151,151,151,151	0
56	MG	B	9042	1/1	0.50	0.33	120,120,120,120	0
56	MG	VC	201	1/1	0.50	0.11	145,145,145,145	0
56	MG	GB	9138	1/1	0.50	0.35	122,122,122,122	0
56	MG	B	9233	1/1	0.51	0.19	207,207,207,207	0
56	MG	B	9135	1/1	0.51	0.20	142,142,142,142	0
56	MG	GB	9354	1/1	0.51	0.14	164,164,164,164	0
56	MG	FB	1627	1/1	0.51	0.19	123,123,123,123	0
56	MG	B	9385	1/1	0.51	0.16	173,173,173,173	0
56	MG	B	9392	1/1	0.51	0.16	140,140,140,140	0
56	MG	GB	9158	1/1	0.51	0.28	136,136,136,136	0
56	MG	HB	216	1/1	0.51	0.10	184,184,184,184	0
56	MG	FB	1672	1/1	0.51	0.30	131,131,131,131	0
56	MG	GB	9055	1/1	0.51	0.25	123,123,123,123	0
56	MG	V	502	1/1	0.51	0.17	109,109,109,109	0
56	MG	GB	9256	1/1	0.51	0.18	138,138,138,138	0
56	MG	CB	101	1/1	0.51	0.15	191,191,191,191	0
56	MG	B	9057	1/1	0.52	0.29	85,85,85,85	0
56	MG	IA	109	1/1	0.52	0.12	140,140,140,140	0
56	MG	FB	1772	1/1	0.52	0.25	165,165,165,165	0
56	MG	MC	102	1/1	0.52	0.18	145,145,145,145	0
56	MG	C	218	1/1	0.52	0.11	166,166,166,166	0
56	MG	C	219	1/1	0.52	0.15	155,155,155,155	0
56	MG	GB	9212	1/1	0.52	0.12	210,210,210,210	0
56	MG	A	1762	1/1	0.52	0.13	153,153,153,153	0
56	MG	FB	1732	1/1	0.52	0.12	164,164,164,164	0
56	MG	A	1687	1/1	0.52	0.12	247,247,247,247	0
56	MG	FB	1756	1/1	0.53	0.14	123,123,123,123	0
56	MG	A	1722	1/1	0.53	0.24	132,132,132,132	0
56	MG	FB	1762	1/1	0.53	0.09	256,256,256,256	0
56	MG	B	9222	1/1	0.53	0.29	126,126,126,126	0
56	MG	GB	9238	1/1	0.53	0.33	120,120,120,120	0
56	MG	GB	9355	1/1	0.53	0.16	131,131,131,131	0
56	MG	B	9138	1/1	0.53	0.14	158,158,158,158	0
56	MG	NC	109	1/1	0.53	0.24	157,157,157,157	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9199	1/1	0.53	0.17	94,94,94,94	0
56	MG	FB	1680	1/1	0.53	0.16	139,139,139,139	0
56	MG	A	1609	1/1	0.53	0.31	112,112,112,112	0
56	MG	HB	211	1/1	0.53	0.26	147,147,147,147	0
56	MG	FB	1642	1/1	0.54	0.18	121,121,121,121	0
56	MG	GB	9034	1/1	0.54	0.24	139,139,139,139	0
56	MG	FB	1702	1/1	0.54	0.22	171,171,171,171	0
56	MG	FB	1604	1/1	0.54	0.45	103,103,103,103	0
56	MG	FB	1752	1/1	0.54	0.22	132,132,132,132	0
56	MG	B	9109	1/1	0.54	0.23	70,70,70,70	0
56	MG	A	1713	1/1	0.54	0.20	151,151,151,151	0
56	MG	GB	9184	1/1	0.54	0.26	130,130,130,130	0
56	MG	A	1623	1/1	0.54	0.28	119,119,119,119	0
56	MG	A	1671	1/1	0.54	0.35	114,114,114,114	0
56	MG	GB	9313	1/1	0.54	0.11	127,127,127,127	0
56	MG	GB	9116	1/1	0.55	0.20	124,124,124,124	0
56	MG	B	9277	1/1	0.55	0.19	131,131,131,131	0
56	MG	OA	201	1/1	0.55	0.34	118,118,118,118	0
56	MG	IA	103	1/1	0.55	0.17	149,149,149,149	0
56	MG	FB	1735	1/1	0.55	0.18	131,131,131,131	0
56	MG	B	9324	1/1	0.55	0.17	182,182,182,182	0
56	MG	GB	9174	1/1	0.55	0.19	136,136,136,136	0
56	MG	LB	303	1/1	0.56	0.19	123,123,123,123	0
56	MG	GB	9331	1/1	0.56	0.10	143,143,143,143	0
56	MG	A	1720	1/1	0.56	0.26	126,126,126,126	0
56	MG	GB	9075	1/1	0.56	0.20	129,129,129,129	0
56	MG	VA	201	1/1	0.56	0.11	120,120,120,120	0
56	MG	GB	9022	1/1	0.56	0.40	99,99,99,99	0
56	MG	FB	1714	1/1	0.56	0.17	202,202,202,202	0
56	MG	B	9311	1/1	0.56	0.18	136,136,136,136	0
56	MG	GB	9112	1/1	0.56	0.18	139,139,139,139	0
56	MG	B	9219	1/1	0.56	0.18	138,138,138,138	0
56	MG	GB	9386	1/1	0.56	0.20	135,135,135,135	0
56	MG	GB	9230	1/1	0.56	0.25	137,137,137,137	0
56	MG	B	9396	1/1	0.56	0.17	120,120,120,120	0
56	MG	SC	302	1/1	0.56	0.29	129,129,129,129	0
56	MG	B	9330	1/1	0.56	0.21	125,125,125,125	0
56	MG	B	9430	1/1	0.56	0.14	159,159,159,159	0
56	MG	B	9220	1/1	0.56	0.18	112,112,112,112	0
56	MG	GB	9041	1/1	0.57	0.32	111,111,111,111	0
56	MG	GB	9169	1/1	0.57	0.16	142,142,142,142	0
56	MG	B	9418	1/1	0.57	0.19	111,111,111,111	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1725	1/1	0.57	0.11	138,138,138,138	0
56	MG	B	9111	1/1	0.57	0.27	104,104,104,104	0
56	MG	FB	1697	1/1	0.57	0.16	149,149,149,149	0
56	MG	GB	9349	1/1	0.57	0.12	134,134,134,134	0
56	MG	GB	9262	1/1	0.57	0.25	119,119,119,119	0
56	MG	A	1663	1/1	0.57	0.20	135,135,135,135	0
56	MG	B	9382	1/1	0.57	0.08	135,135,135,135	0
56	MG	GB	9137	1/1	0.57	0.32	134,134,134,134	0
56	MG	B	9098	1/1	0.57	0.25	114,114,114,114	0
56	MG	A	1624	1/1	0.57	0.20	144,144,144,144	0
56	MG	GB	9297	1/1	0.57	0.15	132,132,132,132	0
56	MG	B	9327	1/1	0.57	0.19	139,139,139,139	0
56	MG	FB	1614	1/1	0.57	0.31	125,125,125,125	0
56	MG	A	1758	1/1	0.57	0.11	98,98,98,98	0
56	MG	FB	1703	1/1	0.58	0.18	116,116,116,116	0
56	MG	GB	9325	1/1	0.58	0.17	105,105,105,105	0
56	MG	FB	1609	1/1	0.58	0.37	110,110,110,110	0
56	MG	A	1715	1/1	0.58	0.22	121,121,121,121	0
56	MG	A	1751	1/1	0.58	0.17	159,159,159,159	0
56	MG	B	9105	1/1	0.58	0.32	111,111,111,111	0
56	MG	A	1770	1/1	0.58	0.13	163,163,163,163	0
56	MG	B	9321	1/1	0.58	0.13	132,132,132,132	0
56	MG	GB	9035	1/1	0.58	0.22	104,104,104,104	0
56	MG	GB	9275	1/1	0.58	0.25	149,149,149,149	0
56	MG	B	9428	1/1	0.59	0.15	138,138,138,138	0
56	MG	GB	9401	1/1	0.59	0.23	106,106,106,106	0
56	MG	C	221	1/1	0.59	0.23	157,157,157,157	0
56	MG	GB	9172	1/1	0.59	0.17	135,135,135,135	0
56	MG	B	9238	1/1	0.59	0.23	95,95,95,95	0
56	MG	UB	201	1/1	0.59	0.14	149,149,149,149	0
56	MG	B	9015	1/1	0.59	0.28	84,84,84,84	0
56	MG	GB	9019	1/1	0.59	0.19	130,130,130,130	0
56	MG	GB	9127	1/1	0.59	0.17	119,119,119,119	0
56	MG	A	1756	1/1	0.59	0.20	102,102,102,102	0
56	MG	A	1745	1/1	0.59	0.14	172,172,172,172	0
56	MG	FB	1603	1/1	0.59	0.29	118,118,118,118	0
56	MG	GB	9279	1/1	0.59	0.13	140,140,140,140	0
56	MG	GB	9095	1/1	0.59	0.36	108,108,108,108	0
56	MG	B	9351	1/1	0.59	0.13	147,147,147,147	0
56	MG	GB	9033	1/1	0.59	0.26	131,131,131,131	0
56	MG	GB	9152	1/1	0.59	0.21	119,119,119,119	0
56	MG	FB	1728	1/1	0.59	0.17	139,139,139,139	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	A	1606	1/1	0.59	0.20	109,109,109,109	0
56	MG	B	9267	1/1	0.60	0.11	164,164,164,164	0
56	MG	FB	1620	1/1	0.60	0.18	126,126,126,126	0
56	MG	GB	9234	1/1	0.60	0.19	132,132,132,132	0
56	MG	B	9112	1/1	0.60	0.22	138,138,138,138	0
56	MG	B	9232	1/1	0.60	0.22	111,111,111,111	0
56	MG	A	1605	1/1	0.60	0.25	119,119,119,119	0
56	MG	A	1726	1/1	0.60	0.14	140,140,140,140	0
56	MG	GB	9043	1/1	0.60	0.24	112,112,112,112	0
56	MG	GB	9200	1/1	0.60	0.15	152,152,152,152	0
56	MG	A	1699	1/1	0.60	0.18	136,136,136,136	0
56	MG	GB	9207	1/1	0.60	0.23	119,119,119,119	0
56	MG	B	9243	1/1	0.60	0.13	153,153,153,153	0
56	MG	SA	201	1/1	0.60	0.13	169,169,169,169	0
56	MG	GB	9058	1/1	0.60	0.29	117,117,117,117	0
56	MG	B	9190	1/1	0.60	0.17	110,110,110,110	0
56	MG	GB	9108	1/1	0.61	0.47	116,116,116,116	0
56	MG	GB	9375	1/1	0.61	0.09	152,152,152,152	0
56	MG	GB	9308	1/1	0.61	0.31	102,102,102,102	0
56	MG	B	9076	1/1	0.61	0.23	104,104,104,104	0
56	MG	FB	1650	1/1	0.61	0.25	135,135,135,135	0
56	MG	A	1780	1/1	0.61	0.17	163,163,163,163	0
56	MG	GB	9328	1/1	0.61	0.10	152,152,152,152	0
56	MG	A	1693	1/1	0.61	0.11	154,154,154,154	0
56	MG	F	303	1/1	0.61	0.12	131,131,131,131	0
56	MG	H	201	1/1	0.61	0.23	146,146,146,146	0
56	MG	B	9156	1/1	0.61	0.16	145,145,145,145	0
56	MG	HB	203	1/1	0.61	0.27	137,137,137,137	0
56	MG	GB	9123	1/1	0.61	0.27	109,109,109,109	0
56	MG	J	201	1/1	0.61	0.13	157,157,157,157	0
56	MG	A	1729	1/1	0.61	0.17	141,141,141,141	0
56	MG	B	9084	1/1	0.62	0.25	101,101,101,101	0
56	MG	B	9307	1/1	0.62	0.14	142,142,142,142	0
56	MG	A	1748	1/1	0.62	0.19	116,116,116,116	0
56	MG	B	9254	1/1	0.62	0.13	188,188,188,188	0
56	MG	UA	201	1/1	0.62	0.09	139,139,139,139	0
56	MG	FB	1613	1/1	0.62	0.37	105,105,105,105	0
56	MG	B	9171	1/1	0.62	0.17	150,150,150,150	0
56	MG	B	9043	1/1	0.62	0.24	95,95,95,95	0
56	MG	GB	9190	1/1	0.62	0.23	112,112,112,112	0
56	MG	GB	9067	1/1	0.62	0.19	105,105,105,105	0
56	MG	B	9303	1/1	0.62	0.24	120,120,120,120	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1791	1/1	0.62	0.13	138,138,138,138	0
56	MG	A	1688	1/1	0.63	0.13	170,170,170,170	0
56	MG	GB	9385	1/1	0.63	0.19	105,105,105,105	0
56	MG	GB	9039	1/1	0.63	0.29	130,130,130,130	0
56	MG	B	9310	1/1	0.63	0.08	162,162,162,162	0
56	MG	A	1665	1/1	0.63	0.17	134,134,134,134	0
56	MG	GB	9395	1/1	0.63	0.09	158,158,158,158	0
56	MG	GB	9051	1/1	0.63	0.33	106,106,106,106	0
56	MG	GB	9246	1/1	0.63	0.14	133,133,133,133	0
56	MG	YA	101	1/1	0.63	0.23	126,126,126,126	0
56	MG	B	9234	1/1	0.63	0.18	130,130,130,130	0
56	MG	GB	9119	1/1	0.63	0.34	126,126,126,126	0
56	MG	B	9055	1/1	0.63	0.18	127,127,127,127	0
56	MG	FB	1731	1/1	0.63	0.18	156,156,156,156	0
56	MG	B	9284	1/1	0.63	0.17	128,128,128,128	0
56	MG	A	1783	1/1	0.63	0.16	160,160,160,160	0
56	MG	FB	1744	1/1	0.63	0.16	135,135,135,135	0
56	MG	B	9348	1/1	0.63	0.12	151,151,151,151	0
56	MG	A	1613	1/1	0.63	0.33	121,121,121,121	0
56	MG	C	202	1/1	0.63	0.29	126,126,126,126	0
56	MG	A	1604	1/1	0.63	0.20	125,125,125,125	0
56	MG	GB	9377	1/1	0.63	0.40	114,114,114,114	0
56	MG	A	1738	1/1	0.63	0.19	127,127,127,127	0
56	MG	B	9265	1/1	0.64	0.13	136,136,136,136	0
56	MG	B	9235	1/1	0.64	0.12	165,165,165,165	0
56	MG	A	1700	1/1	0.64	0.16	97,97,97,97	0
56	MG	FB	1729	1/1	0.64	0.19	134,134,134,134	0
56	MG	GB	9077	1/1	0.64	0.35	84,84,84,84	0
56	MG	B	9025	1/1	0.64	0.42	87,87,87,87	0
56	MG	GB	9083	1/1	0.64	0.23	125,125,125,125	0
56	MG	B	9080	1/1	0.64	0.26	117,117,117,117	0
56	MG	B	9129	1/1	0.64	0.20	108,108,108,108	0
56	MG	GB	9010	1/1	0.64	0.30	92,92,92,92	0
56	MG	B	9101	1/1	0.64	0.19	102,102,102,102	0
56	MG	B	9289	1/1	0.64	0.23	138,138,138,138	0
56	MG	FB	1647	1/1	0.64	0.23	136,136,136,136	0
56	MG	GB	9271	1/1	0.64	0.29	126,126,126,126	0
56	MG	GB	9146	1/1	0.64	0.16	116,116,116,116	0
56	MG	IA	107	1/1	0.64	0.13	109,109,109,109	0
56	MG	C	207	1/1	0.64	0.12	152,152,152,152	0
56	MG	GB	9380	1/1	0.65	0.12	120,120,120,120	0
56	MG	B	9180	1/1	0.65	0.14	178,178,178,178	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9092	1/1	0.65	0.22	110,110,110,110	0
56	MG	B	9210	1/1	0.65	0.17	133,133,133,133	0
56	MG	FB	1723	1/1	0.65	0.26	181,181,181,181	0
56	MG	GB	9128	1/1	0.65	0.21	136,136,136,136	0
56	MG	B	9260	1/1	0.65	0.23	103,103,103,103	0
56	MG	B	9423	1/1	0.65	0.26	117,117,117,117	0
56	MG	A	1718	1/1	0.65	0.20	133,133,133,133	0
56	MG	FB	1771	1/1	0.65	0.17	138,138,138,138	0
56	MG	A	1707	1/1	0.65	0.22	164,164,164,164	0
56	MG	FB	1706	1/1	0.65	0.26	117,117,117,117	0
56	MG	JB	303	1/1	0.65	0.10	102,102,102,102	0
56	MG	B	9133	1/1	0.65	0.18	89,89,89,89	0
56	MG	FB	1658	1/1	0.65	0.37	119,119,119,119	0
56	MG	A	1776	1/1	0.65	0.23	144,144,144,144	0
56	MG	HD	101	1/1	0.65	0.22	150,150,150,150	0
56	MG	C	208	1/1	0.66	0.15	164,164,164,164	0
56	MG	FB	1605	1/1	0.66	0.38	103,103,103,103	0
56	MG	FB	1685	1/1	0.66	0.13	141,141,141,141	0
56	MG	GB	9151	1/1	0.66	0.23	104,104,104,104	0
56	MG	B	9023	1/1	0.66	0.32	92,92,92,92	0
56	MG	GB	9153	1/1	0.66	0.15	110,110,110,110	0
56	MG	B	9186	1/1	0.66	0.16	116,116,116,116	0
56	MG	GB	9008	1/1	0.66	0.27	83,83,83,83	0
56	MG	GB	9270	1/1	0.66	0.17	123,123,123,123	0
56	MG	MC	103	1/1	0.66	0.20	140,140,140,140	0
56	MG	GB	9103	1/1	0.66	0.20	126,126,126,126	0
56	MG	GB	9388	1/1	0.66	0.19	108,108,108,108	0
56	MG	NC	105	1/1	0.66	0.05	174,174,174,174	0
56	MG	GB	9063	1/1	0.66	0.18	115,115,115,115	0
56	MG	QC	302	1/1	0.66	0.19	143,143,143,143	0
56	MG	B	9373	1/1	0.66	0.13	160,160,160,160	0
56	MG	FB	1759	1/1	0.66	0.29	134,134,134,134	0
56	MG	FB	1673	1/1	0.66	0.21	133,133,133,133	0
56	MG	GB	9343	1/1	0.66	0.09	133,133,133,133	0
56	MG	B	9045	1/1	0.66	0.40	105,105,105,105	0
56	MG	GB	9290	1/1	0.66	0.14	146,146,146,146	0
56	MG	BC	301	1/1	0.67	0.19	136,136,136,136	0
56	MG	B	9140	1/1	0.67	0.20	111,111,111,111	0
56	MG	HB	219	1/1	0.67	0.16	141,141,141,141	0
56	MG	B	9078	1/1	0.67	0.24	88,88,88,88	0
56	MG	GB	9090	1/1	0.67	0.25	129,129,129,129	0
56	MG	B	9052	1/1	0.67	0.26	114,114,114,114	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1645	1/1	0.67	0.17	144,144,144,144	0
56	MG	B	9038	1/1	0.67	0.31	85,85,85,85	0
56	MG	GB	9060	1/1	0.67	0.25	124,124,124,124	0
56	MG	PC	401	1/1	0.67	0.15	167,167,167,167	0
56	MG	A	1727	1/1	0.67	0.18	161,161,161,161	0
56	MG	B	9092	1/1	0.67	0.13	140,140,140,140	0
56	MG	GB	9129	1/1	0.67	0.10	103,103,103,103	0
56	MG	SB	202	1/1	0.67	0.21	137,137,137,137	0
56	MG	GB	9040	1/1	0.67	0.25	113,113,113,113	0
56	MG	FB	1639	1/1	0.67	0.15	123,123,123,123	0
56	MG	OA	204	1/1	0.67	0.10	134,134,134,134	0
56	MG	A	1759	1/1	0.68	0.38	175,175,175,175	0
56	MG	B	9040	1/1	0.68	0.37	98,98,98,98	0
56	MG	B	9401	1/1	0.68	0.08	139,139,139,139	0
56	MG	FB	1670	1/1	0.68	0.18	197,197,197,197	0
56	MG	UB	202	1/1	0.68	0.34	164,164,164,164	0
56	MG	GB	9020	1/1	0.68	0.48	94,94,94,94	0
56	MG	FB	1607	1/1	0.68	0.33	99,99,99,99	0
56	MG	GB	9110	1/1	0.68	0.16	98,98,98,98	0
56	MG	A	1698	1/1	0.68	0.13	171,171,171,171	0
56	MG	GB	9218	1/1	0.68	0.15	108,108,108,108	0
56	MG	GB	9113	1/1	0.68	0.24	99,99,99,99	0
56	MG	HB	212	1/1	0.68	0.30	130,130,130,130	0
56	MG	GB	9026	1/1	0.68	0.27	88,88,88,88	0
56	MG	K	204	1/1	0.68	0.10	133,133,133,133	0
56	MG	A	1676	1/1	0.68	0.25	133,133,133,133	0
56	MG	D	101	1/1	0.68	0.13	231,231,231,231	0
56	MG	FB	1781	1/1	0.68	0.39	179,179,179,179	0
56	MG	MA	306	1/1	0.68	0.11	149,149,149,149	0
56	MG	GB	9244	1/1	0.68	0.20	132,132,132,132	0
56	MG	GB	9004	1/1	0.68	0.40	88,88,88,88	0
56	MG	GB	9084	1/1	0.68	0.26	111,111,111,111	0
56	MG	C	209	1/1	0.68	0.29	130,130,130,130	0
56	MG	WC	201	1/1	0.68	0.11	134,134,134,134	0
56	MG	GB	9254	1/1	0.68	0.10	109,109,109,109	0
56	MG	A	1696	1/1	0.68	0.11	106,106,106,106	0
56	MG	GB	9201	1/1	0.69	0.22	107,107,107,107	0
56	MG	A	1755	1/1	0.69	0.26	110,110,110,110	0
56	MG	B	9013	1/1	0.69	0.22	96,96,96,96	0
56	MG	B	9253	1/1	0.69	0.12	107,107,107,107	0
56	MG	GB	9155	1/1	0.69	0.14	150,150,150,150	0
56	MG	A	1710	1/1	0.69	0.28	148,148,148,148	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9102	1/1	0.69	0.26	81,81,81,81	0
56	MG	B	9044	1/1	0.69	0.37	73,73,73,73	0
56	MG	FB	1753	1/1	0.69	0.22	132,132,132,132	0
56	MG	MA	301	1/1	0.69	0.16	152,152,152,152	0
56	MG	GB	9109	1/1	0.69	0.17	111,111,111,111	0
56	MG	GB	9175	1/1	0.69	0.19	92,92,92,92	0
56	MG	A	1777	1/1	0.69	0.18	152,152,152,152	0
56	MG	LB	304	1/1	0.69	0.12	127,127,127,127	0
56	MG	A	1763	1/1	0.69	0.12	104,104,104,104	0
56	MG	A	1666	1/1	0.69	0.25	123,123,123,123	0
56	MG	PB	201	1/1	0.69	0.10	134,134,134,134	0
56	MG	RB	201	1/1	0.69	0.27	87,87,87,87	0
56	MG	B	9375	1/1	0.69	0.08	95,95,95,95	0
56	MG	A	1781	1/1	0.69	0.11	149,149,149,149	0
56	MG	A	1690	1/1	0.69	0.31	105,105,105,105	0
56	MG	GB	9227	1/1	0.70	0.25	116,116,116,116	0
56	MG	B	9070	1/1	0.70	0.12	83,83,83,83	0
56	MG	O	202	1/1	0.70	0.28	102,102,102,102	0
56	MG	FB	1663	1/1	0.70	0.14	110,110,110,110	0
56	MG	B	9182	1/1	0.70	0.11	116,116,116,116	0
56	MG	AB	201	1/1	0.70	0.15	135,135,135,135	0
56	MG	GB	9292	1/1	0.70	0.22	122,122,122,122	0
56	MG	FB	1766	1/1	0.70	0.28	110,110,110,110	0
56	MG	GB	9243	1/1	0.70	0.15	127,127,127,127	0
56	MG	HB	213	1/1	0.70	0.06	187,187,187,187	0
56	MG	GB	9120	1/1	0.70	0.11	101,101,101,101	0
56	MG	GB	9038	1/1	0.70	0.30	98,98,98,98	0
56	MG	G	301	1/1	0.70	0.15	101,101,101,101	0
56	MG	GB	9203	1/1	0.70	0.17	100,100,100,100	0
56	MG	FB	1696	1/1	0.70	0.18	191,191,191,191	0
56	MG	A	1732	1/1	0.70	0.22	139,139,139,139	0
56	MG	GB	9319	1/1	0.70	0.27	104,104,104,104	0
56	MG	C	203	1/1	0.70	0.17	161,161,161,161	0
56	MG	GB	9392	1/1	0.70	0.20	147,147,147,147	0
56	MG	GB	9321	1/1	0.70	0.12	147,147,147,147	0
56	MG	SC	304	1/1	0.70	0.11	116,116,116,116	0
56	MG	GB	9168	1/1	0.70	0.15	115,115,115,115	0
56	MG	GB	9400	1/1	0.70	0.09	150,150,150,150	0
56	MG	GB	9044	1/1	0.70	0.23	119,119,119,119	0
56	MG	A	1658	1/1	0.70	0.30	177,177,177,177	0
56	MG	GB	9225	1/1	0.70	0.13	93,93,93,93	0
56	MG	B	9258	1/1	0.71	0.09	109,109,109,109	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9224	1/1	0.71	0.16	120,120,120,120	0
56	MG	FB	1637	1/1	0.71	0.37	109,109,109,109	0
56	MG	B	9308	1/1	0.71	0.11	125,125,125,125	0
56	MG	B	9231	1/1	0.71	0.15	85,85,85,85	0
56	MG	GB	9088	1/1	0.71	0.21	115,115,115,115	0
56	MG	GB	9339	1/1	0.71	0.24	102,102,102,102	0
56	MG	GB	9056	1/1	0.71	0.25	93,93,93,93	0
56	MG	GB	9015	1/1	0.71	0.24	86,86,86,86	0
56	MG	B	9335	1/1	0.71	0.13	126,126,126,126	0
56	MG	A	1645	1/1	0.71	0.42	131,131,131,131	0
56	MG	FB	1616	1/1	0.71	0.40	108,108,108,108	0
56	MG	GB	9149	1/1	0.71	0.11	108,108,108,108	0
56	MG	FB	1678	1/1	0.71	0.23	115,115,115,115	0
56	MG	FB	1617	1/1	0.71	0.25	110,110,110,110	0
56	MG	DC	101	1/1	0.71	0.20	122,122,122,122	0
56	MG	GB	9104	1/1	0.71	0.18	103,103,103,103	0
56	MG	FB	1767	1/1	0.72	0.15	137,137,137,137	0
56	MG	B	9175	1/1	0.72	0.19	102,102,102,102	0
56	MG	K	201	1/1	0.72	0.08	128,128,128,128	0
56	MG	GB	9130	1/1	0.72	0.20	116,116,116,116	0
56	MG	B	9204	1/1	0.72	0.21	113,113,113,113	0
56	MG	A	1734	1/1	0.72	0.16	143,143,143,143	0
56	MG	B	9121	1/1	0.72	0.22	142,142,142,142	0
56	MG	FB	1738	1/1	0.72	0.22	143,143,143,143	0
56	MG	GB	9241	1/1	0.72	0.26	113,113,113,113	0
56	MG	GB	9185	1/1	0.72	0.16	120,120,120,120	0
56	MG	A	1607	1/1	0.72	0.27	122,122,122,122	0
56	MG	A	1749	1/1	0.72	0.10	129,129,129,129	0
56	MG	GB	9197	1/1	0.72	0.19	91,91,91,91	0
56	MG	NC	106	1/1	0.72	0.17	108,108,108,108	0
56	MG	NC	107	1/1	0.72	0.19	122,122,122,122	0
56	MG	D	104	1/1	0.72	0.12	131,131,131,131	0
56	MG	D	105	1/1	0.72	0.09	129,129,129,129	0
56	MG	A	1728	1/1	0.72	0.07	183,183,183,183	0
56	MG	GB	9089	1/1	0.72	0.30	113,113,113,113	0
56	MG	A	1603	1/1	0.72	0.24	102,102,102,102	0
56	MG	A	1704	1/1	0.72	0.14	106,106,106,106	0
56	MG	B	9314	1/1	0.72	0.14	131,131,131,131	0
56	MG	YA	102	1/1	0.72	0.16	134,134,134,134	0
56	MG	GB	9219	1/1	0.72	0.16	143,143,143,143	0
56	MG	GB	9220	1/1	0.72	0.21	122,122,122,122	0
56	MG	FB	1692	1/1	0.72	0.18	129,129,129,129	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1776	1/1	0.73	0.10	214,214,214,214	0
56	MG	RB	202	1/1	0.73	0.10	134,134,134,134	0
56	MG	FB	1724	1/1	0.73	0.34	162,162,162,162	0
56	MG	A	1669	1/1	0.73	0.17	132,132,132,132	0
56	MG	GB	9188	1/1	0.73	0.23	90,90,90,90	0
56	MG	FB	1682	1/1	0.73	0.17	130,130,130,130	0
56	MG	GB	9133	1/1	0.73	0.22	107,107,107,107	0
56	MG	B	9429	1/1	0.73	0.17	100,100,100,100	0
56	MG	B	9181	1/1	0.73	0.12	97,97,97,97	0
56	MG	B	9212	1/1	0.73	0.21	108,108,108,108	0
56	MG	GB	9259	1/1	0.73	0.15	91,91,91,91	0
56	MG	B	9213	1/1	0.73	0.21	105,105,105,105	0
56	MG	GB	9107	1/1	0.73	0.15	88,88,88,88	0
56	MG	B	9125	1/1	0.73	0.32	100,100,100,100	0
56	MG	B	9383	1/1	0.73	0.18	116,116,116,116	0
56	MG	B	9058	1/1	0.73	0.16	151,151,151,151	0
56	MG	B	9037	1/1	0.73	0.24	89,89,89,89	0
56	MG	C	211	1/1	0.73	0.14	149,149,149,149	0
56	MG	B	9067	1/1	0.73	0.19	89,89,89,89	0
56	MG	A	1633	1/1	0.73	0.30	112,112,112,112	0
56	MG	B	9338	1/1	0.73	0.39	112,112,112,112	0
56	MG	C	217	1/1	0.73	0.13	140,140,140,140	0
56	MG	A	1725	1/1	0.73	0.29	126,126,126,126	0
56	MG	PA	201	1/1	0.73	0.07	109,109,109,109	0
56	MG	FB	1674	1/1	0.73	0.24	107,107,107,107	0
56	MG	Y	102	1/1	0.73	0.09	126,126,126,126	0
56	MG	FB	1677	1/1	0.73	0.21	119,119,119,119	0
56	MG	A	1682	1/1	0.73	0.19	136,136,136,136	0
56	MG	ZC	201	1/1	0.73	0.28	126,126,126,126	0
56	MG	GB	9240	1/1	0.73	0.14	113,113,113,113	0
56	MG	GB	9310	1/1	0.73	0.21	124,124,124,124	0
56	MG	B	9124	1/1	0.74	0.28	94,94,94,94	0
56	MG	A	1712	1/1	0.74	0.12	198,198,198,198	0
56	MG	GB	9206	1/1	0.74	0.25	113,113,113,113	0
56	MG	GB	9323	1/1	0.74	0.23	98,98,98,98	0
56	MG	GB	9324	1/1	0.74	0.11	153,153,153,153	0
56	MG	A	1730	1/1	0.74	0.15	115,115,115,115	0
56	MG	B	9062	1/1	0.74	0.19	109,109,109,109	0
56	MG	GB	9280	1/1	0.74	0.16	104,104,104,104	0
56	MG	GB	9287	1/1	0.74	0.08	164,164,164,164	0
56	MG	B	9269	1/1	0.74	0.12	153,153,153,153	0
56	MG	MA	303	1/1	0.74	0.10	139,139,139,139	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9169	1/1	0.74	0.24	110,110,110,110	0
56	MG	B	9115	1/1	0.74	0.27	119,119,119,119	0
56	MG	GB	9296	1/1	0.74	0.14	133,133,133,133	0
56	MG	GB	9250	1/1	0.74	0.20	132,132,132,132	0
56	MG	HB	206	1/1	0.74	0.17	141,141,141,141	0
56	MG	B	9221	1/1	0.74	0.15	161,161,161,161	0
56	MG	GB	9086	1/1	0.74	0.13	123,123,123,123	0
56	MG	UC	202	1/1	0.74	0.11	138,138,138,138	0
56	MG	GB	9154	1/1	0.74	0.25	114,114,114,114	0
56	MG	B	9064	1/1	0.74	0.20	107,107,107,107	0
56	MG	FB	1727	1/1	0.74	0.23	119,119,119,119	0
56	MG	B	9054	1/1	0.74	0.26	115,115,115,115	0
56	MG	A	1701	1/1	0.74	0.20	160,160,160,160	0
56	MG	GB	9011	1/1	0.75	0.27	88,88,88,88	0
56	MG	A	1654	1/1	0.75	0.27	98,98,98,98	0
56	MG	GB	9326	1/1	0.75	0.11	180,180,180,180	0
56	MG	B	9422	1/1	0.75	0.10	148,148,148,148	0
56	MG	GB	9126	1/1	0.75	0.21	109,109,109,109	0
56	MG	B	9301	1/1	0.75	0.11	119,119,119,119	0
56	MG	GB	9276	1/1	0.75	0.18	94,94,94,94	0
56	MG	A	1630	1/1	0.75	0.30	112,112,112,112	0
56	MG	A	1615	1/1	0.75	0.28	101,101,101,101	0
56	MG	B	9136	1/1	0.75	0.17	121,121,121,121	0
56	MG	GB	9176	1/1	0.75	0.18	104,104,104,104	0
56	MG	FB	1770	1/1	0.75	0.11	133,133,133,133	0
56	MG	GB	9182	1/1	0.75	0.17	125,125,125,125	0
56	MG	GB	9368	1/1	0.75	0.07	139,139,139,139	0
56	MG	Z	101	1/1	0.75	0.20	105,105,105,105	0
56	MG	GB	9293	1/1	0.75	0.10	90,90,90,90	0
56	MG	GB	9061	1/1	0.75	0.16	108,108,108,108	0
56	MG	NC	108	1/1	0.75	0.13	136,136,136,136	0
56	MG	E	306	1/1	0.75	0.07	88,88,88,88	0
56	MG	FB	1737	1/1	0.75	0.11	114,114,114,114	0
56	MG	FB	1660	1/1	0.75	0.33	102,102,102,102	0
56	MG	GB	9191	1/1	0.75	0.17	116,116,116,116	0
56	MG	GB	9031	1/1	0.75	0.32	96,96,96,96	0
56	MG	B	9352	1/1	0.75	0.12	121,121,121,121	0
56	MG	GB	9147	1/1	0.75	0.29	114,114,114,114	0
56	MG	FB	1745	1/1	0.75	0.22	138,138,138,138	0
56	MG	A	1649	1/1	0.75	0.19	88,88,88,88	0
56	MG	A	1737	1/1	0.75	0.20	131,131,131,131	0
56	MG	GB	9007	1/1	0.75	0.28	75,75,75,75	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	IA	105	1/1	0.75	0.24	135,135,135,135	0
56	MG	C	204	1/1	0.75	0.27	113,113,113,113	0
56	MG	FB	1695	1/1	0.76	0.24	118,118,118,118	0
56	MG	B	9193	1/1	0.76	0.25	96,96,96,96	0
56	MG	C	205	1/1	0.76	0.17	101,101,101,101	0
56	MG	FB	1778	1/1	0.76	0.13	121,121,121,121	0
56	MG	B	9229	1/1	0.76	0.15	100,100,100,100	0
56	MG	B	9241	1/1	0.76	0.08	118,118,118,118	0
56	MG	FB	1782	1/1	0.76	0.17	175,175,175,175	0
56	MG	B	9272	1/1	0.76	0.15	116,116,116,116	0
56	MG	B	9417	1/1	0.76	0.14	113,113,113,113	0
56	MG	GB	9389	1/1	0.76	0.23	107,107,107,107	0
56	MG	B	9230	1/1	0.76	0.14	129,129,129,129	0
56	MG	FB	1707	1/1	0.76	0.35	113,113,113,113	0
56	MG	B	9419	1/1	0.76	0.11	102,102,102,102	0
56	MG	A	1648	1/1	0.76	0.13	130,130,130,130	0
56	MG	B	9007	1/1	0.76	0.55	75,75,75,75	0
56	MG	GB	9101	1/1	0.76	0.27	84,84,84,84	0
56	MG	GB	9054	1/1	0.76	0.31	105,105,105,105	0
56	MG	A	1711	1/1	0.76	0.20	110,110,110,110	0
56	MG	GB	9135	1/1	0.76	0.24	105,105,105,105	0
56	MG	FB	1625	1/1	0.76	0.23	99,99,99,99	0
56	MG	B	9316	1/1	0.76	0.11	126,126,126,126	0
56	MG	FB	1629	1/1	0.76	0.12	101,101,101,101	0
56	MG	B	9319	1/1	0.76	0.08	110,110,110,110	0
56	MG	B	9050	1/1	0.76	0.45	105,105,105,105	0
56	MG	B	9192	1/1	0.76	0.13	132,132,132,132	0
56	MG	B	9262	1/1	0.76	0.24	110,110,110,110	0
56	MG	B	9288	1/1	0.77	0.12	153,153,153,153	0
56	MG	GB	9177	1/1	0.77	0.26	124,124,124,124	0
56	MG	GB	9180	1/1	0.77	0.34	104,104,104,104	0
56	MG	MA	302	1/1	0.77	0.11	157,157,157,157	0
56	MG	GB	9215	1/1	0.77	0.20	145,145,145,145	0
56	MG	B	9158	1/1	0.77	0.20	90,90,90,90	0
56	MG	GB	9030	1/1	0.77	0.34	80,80,80,80	0
56	MG	B	9100	1/1	0.77	0.18	100,100,100,100	0
56	MG	FB	1774	1/1	0.77	0.24	118,118,118,118	0
56	MG	QC	301	1/1	0.77	0.19	133,133,133,133	0
56	MG	B	9248	1/1	0.77	0.22	104,104,104,104	0
56	MG	B	9376	1/1	0.77	0.17	94,94,94,94	0
56	MG	B	9089	1/1	0.77	0.14	126,126,126,126	0
56	MG	FB	1636	1/1	0.77	0.23	103,103,103,103	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1736	1/1	0.77	0.16	120,120,120,120	0
56	MG	TC	202	1/1	0.77	0.14	135,135,135,135	0
56	MG	GB	9304	1/1	0.77	0.17	102,102,102,102	0
56	MG	CC	101	1/1	0.77	0.52	111,111,111,111	0
56	MG	A	1621	1/1	0.77	0.17	105,105,105,105	0
56	MG	GB	9072	1/1	0.77	0.16	113,113,113,113	0
56	MG	FB	1788	1/1	0.77	0.11	127,127,127,127	0
56	MG	A	1668	1/1	0.77	0.14	147,147,147,147	0
56	MG	FB	1632	1/1	0.78	0.18	104,104,104,104	0
56	MG	GB	9374	1/1	0.78	0.27	117,117,117,117	0
56	MG	GB	9105	1/1	0.78	0.20	116,116,116,116	0
56	MG	GB	9150	1/1	0.78	0.24	143,143,143,143	0
56	MG	GB	9053	1/1	0.78	0.36	88,88,88,88	0
56	MG	B	9203	1/1	0.78	0.13	128,128,128,128	0
56	MG	B	9061	1/1	0.78	0.27	104,104,104,104	0
56	MG	B	9206	1/1	0.78	0.19	96,96,96,96	0
56	MG	B	9432	1/1	0.78	0.24	119,119,119,119	0
56	MG	GB	9294	1/1	0.78	0.17	131,131,131,131	0
56	MG	GB	9157	1/1	0.78	0.10	143,143,143,143	0
56	MG	FB	1666	1/1	0.78	0.13	128,128,128,128	0
56	MG	A	1706	1/1	0.78	0.11	147,147,147,147	0
56	MG	A	1614	1/1	0.78	0.23	116,116,116,116	0
56	MG	B	9002	1/1	0.78	0.54	64,64,64,64	0
56	MG	GB	9231	1/1	0.78	0.16	96,96,96,96	0
56	MG	FB	1640	1/1	0.78	0.17	103,103,103,103	0
56	MG	B	9239	1/1	0.78	0.16	86,86,86,86	0
56	MG	GB	9068	1/1	0.78	0.25	100,100,100,100	0
56	MG	B	9033	1/1	0.78	0.29	78,78,78,78	0
56	MG	A	1694	1/1	0.78	0.19	100,100,100,100	0
56	MG	FB	1619	1/1	0.78	0.18	125,125,125,125	0
56	MG	B	9122	1/1	0.78	0.18	106,106,106,106	0
56	MG	GB	9125	1/1	0.78	0.28	89,89,89,89	0
56	MG	B	9146	1/1	0.78	0.26	78,78,78,78	0
56	MG	A	1752	1/1	0.78	0.23	112,112,112,112	0
56	MG	FB	1726	1/1	0.78	0.19	107,107,107,107	0
56	MG	B	9014	1/1	0.78	0.24	60,60,60,60	0
56	MG	A	1628	1/1	0.78	0.19	101,101,101,101	0
56	MG	GB	9329	1/1	0.78	0.18	91,91,91,91	0
56	MG	B	9130	1/1	0.78	0.15	115,115,115,115	0
56	MG	GB	9091	1/1	0.78	0.19	107,107,107,107	0
56	MG	FB	1689	1/1	0.78	0.32	109,109,109,109	0
56	MG	GB	9263	1/1	0.78	0.11	148,148,148,148	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1690	1/1	0.78	0.22	107,107,107,107	0
56	MG	B	9020	1/1	0.78	0.26	83,83,83,83	0
56	MG	UC	203	1/1	0.78	0.08	120,120,120,120	0
56	MG	FB	1783	1/1	0.78	0.14	160,160,160,160	0
56	MG	MA	305	1/1	0.78	0.08	156,156,156,156	0
56	MG	FB	1790	1/1	0.78	0.10	138,138,138,138	0
56	MG	GB	9360	1/1	0.78	0.14	101,101,101,101	0
56	MG	FB	1693	1/1	0.78	0.17	160,160,160,160	0
56	MG	GB	9371	1/1	0.79	0.13	92,92,92,92	0
56	MG	FB	1794	1/1	0.79	0.20	125,125,125,125	0
56	MG	GB	9213	1/1	0.79	0.13	92,92,92,92	0
56	MG	B	9403	1/1	0.79	0.16	132,132,132,132	0
56	MG	FB	1739	1/1	0.79	0.17	115,115,115,115	0
56	MG	B	9346	1/1	0.79	0.09	109,109,109,109	0
56	MG	B	9347	1/1	0.79	0.09	115,115,115,115	0
56	MG	AB	202	1/1	0.79	0.13	133,133,133,133	0
56	MG	B	9150	1/1	0.79	0.15	101,101,101,101	0
56	MG	GB	9111	1/1	0.79	0.25	102,102,102,102	0
56	MG	GB	9014	1/1	0.79	0.29	88,88,88,88	0
56	MG	A	1675	1/1	0.79	0.20	96,96,96,96	0
56	MG	B	9073	1/1	0.79	0.20	79,79,79,79	0
56	MG	B	9245	1/1	0.79	0.41	103,103,103,103	0
56	MG	B	9368	1/1	0.79	0.21	92,92,92,92	0
56	MG	A	1740	1/1	0.79	0.20	108,108,108,108	0
56	MG	GB	9021	1/1	0.79	0.39	109,109,109,109	0
56	MG	GB	9309	1/1	0.79	0.11	109,109,109,109	0
56	MG	A	1691	1/1	0.79	0.08	145,145,145,145	0
56	MG	GB	9311	1/1	0.79	0.11	132,132,132,132	0
56	MG	GB	9076	1/1	0.79	0.18	104,104,104,104	0
56	MG	B	9060	1/1	0.79	0.33	91,91,91,91	0
56	MG	GB	9178	1/1	0.79	0.16	115,115,115,115	0
56	MG	B	9255	1/1	0.79	0.16	100,100,100,100	0
56	MG	GB	9081	1/1	0.79	0.22	97,97,97,97	0
56	MG	FB	1679	1/1	0.79	0.08	244,244,244,244	0
56	MG	B	9380	1/1	0.79	0.18	100,100,100,100	0
56	MG	B	9142	1/1	0.79	0.18	116,116,116,116	0
56	MG	B	9068	1/1	0.79	0.29	93,93,93,93	0
56	MG	B	9291	1/1	0.79	0.14	77,77,77,77	0
56	MG	GB	9131	1/1	0.79	0.21	90,90,90,90	0
56	MG	SC	301	1/1	0.79	0.25	102,102,102,102	0
56	MG	B	9194	1/1	0.79	0.09	151,151,151,151	0
56	MG	B	9393	1/1	0.79	0.10	98,98,98,98	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	R	201	1/1	0.79	0.11	119,119,119,119	0
56	MG	B	9334	1/1	0.79	0.23	91,91,91,91	0
56	MG	B	9032	1/1	0.79	0.28	73,73,73,73	0
56	MG	FB	1733	1/1	0.79	0.08	92,92,92,92	0
56	MG	GB	9098	1/1	0.79	0.11	122,122,122,122	0
56	MG	B	9200	1/1	0.79	0.14	109,109,109,109	0
56	MG	AA	101	1/1	0.79	0.20	106,106,106,106	0
56	MG	GB	9364	1/1	0.79	0.14	122,122,122,122	0
56	MG	ED	101	1/1	0.79	0.10	120,120,120,120	0
56	MG	B	9402	1/1	0.79	0.21	104,104,104,104	0
56	MG	GB	9122	1/1	0.80	0.16	88,88,88,88	0
56	MG	B	9075	1/1	0.80	0.31	106,106,106,106	0
56	MG	B	9021	1/1	0.80	0.45	79,79,79,79	0
56	MG	FB	1793	1/1	0.80	0.07	138,138,138,138	0
56	MG	B	9345	1/1	0.80	0.10	85,85,85,85	0
56	MG	FB	1652	1/1	0.80	0.14	111,111,111,111	0
56	MG	B	9431	1/1	0.80	0.11	89,89,89,89	0
56	MG	GB	9253	1/1	0.80	0.23	104,104,104,104	0
56	MG	FB	1621	1/1	0.80	0.32	97,97,97,97	0
56	MG	B	9276	1/1	0.80	0.28	105,105,105,105	0
56	MG	GB	9173	1/1	0.80	0.10	108,108,108,108	0
56	MG	B	9104	1/1	0.80	0.14	78,78,78,78	0
56	MG	FB	1683	1/1	0.80	0.19	104,104,104,104	0
56	MG	A	1601	1/1	0.80	0.31	75,75,75,75	0
56	MG	GB	9268	1/1	0.80	0.17	109,109,109,109	0
56	MG	GB	9080	1/1	0.80	0.29	84,84,84,84	0
56	MG	GB	9314	1/1	0.80	0.33	98,98,98,98	0
56	MG	GB	9316	1/1	0.80	0.12	157,157,157,157	0
56	MG	FB	1611	1/1	0.80	0.26	112,112,112,112	0
56	MG	FB	1664	1/1	0.80	0.16	98,98,98,98	0
56	MG	GB	9047	1/1	0.80	0.49	99,99,99,99	0
56	MG	SC	303	1/1	0.80	0.08	114,114,114,114	0
56	MG	GB	9322	1/1	0.80	0.13	112,112,112,112	0
56	MG	A	1616	1/1	0.80	0.24	101,101,101,101	0
56	MG	B	9188	1/1	0.80	0.20	95,95,95,95	0
56	MG	TC	203	1/1	0.80	0.09	134,134,134,134	0
56	MG	FB	1668	1/1	0.80	0.29	105,105,105,105	0
56	MG	GB	9397	1/1	0.80	0.16	104,104,104,104	0
56	MG	C	220	1/1	0.80	0.14	161,161,161,161	0
56	MG	B	9099	1/1	0.80	0.28	83,83,83,83	0
56	MG	FB	1787	1/1	0.80	0.08	127,127,127,127	0
56	MG	AD	201	1/1	0.80	0.20	97,97,97,97	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9025	1/1	0.80	0.33	88,88,88,88	0
56	MG	GB	9289	1/1	0.80	0.12	95,95,95,95	0
56	MG	B	9056	1/1	0.80	0.40	94,94,94,94	0
56	MG	B	9362	1/1	0.81	0.12	97,97,97,97	0
56	MG	IC	102	1/1	0.81	0.21	131,131,131,131	0
56	MG	A	1750	1/1	0.81	0.15	157,157,157,157	0
56	MG	B	9328	1/1	0.81	0.09	105,105,105,105	0
56	MG	B	9149	1/1	0.81	0.19	104,104,104,104	0
56	MG	B	9079	1/1	0.81	0.09	73,73,73,73	0
56	MG	B	9215	1/1	0.81	0.14	92,92,92,92	0
56	MG	B	9155	1/1	0.81	0.10	97,97,97,97	0
56	MG	GB	9096	1/1	0.81	0.24	114,114,114,114	0
56	MG	B	9342	1/1	0.81	0.24	104,104,104,104	0
56	MG	A	1697	1/1	0.81	0.14	135,135,135,135	0
56	MG	FB	1649	1/1	0.81	0.31	119,119,119,119	0
56	MG	FB	1704	1/1	0.81	0.24	129,129,129,129	0
56	MG	A	1766	1/1	0.81	0.21	133,133,133,133	0
56	MG	B	9005	1/1	0.81	0.34	79,79,79,79	0
56	MG	B	9433	1/1	0.81	0.13	99,99,99,99	0
56	MG	B	9434	1/1	0.81	0.12	133,133,133,133	0
56	MG	FB	1785	1/1	0.81	0.19	123,123,123,123	0
56	MG	FB	1709	1/1	0.81	0.12	116,116,116,116	0
56	MG	B	9161	1/1	0.81	0.21	94,94,94,94	0
56	MG	A	1667	1/1	0.81	0.39	112,112,112,112	0
56	MG	B	9350	1/1	0.81	0.16	115,115,115,115	0
56	MG	GB	9330	1/1	0.81	0.13	95,95,95,95	0
56	MG	UC	201	1/1	0.81	0.13	130,130,130,130	0
56	MG	GB	9143	1/1	0.81	0.15	94,94,94,94	0
56	MG	FB	1792	1/1	0.81	0.11	134,134,134,134	0
56	MG	FB	1754	1/1	0.81	0.14	155,155,155,155	0
56	MG	B	9296	1/1	0.81	0.13	84,84,84,84	0
56	MG	GB	9194	1/1	0.81	0.07	119,119,119,119	0
56	MG	A	1757	1/1	0.81	0.09	169,169,169,169	0
56	MG	F	301	1/1	0.81	0.10	114,114,114,114	0
56	MG	FB	1760	1/1	0.81	0.08	112,112,112,112	0
56	MG	GB	9300	1/1	0.81	0.23	107,107,107,107	0
56	MG	B	9145	1/1	0.82	0.17	78,78,78,78	0
56	MG	B	9030	1/1	0.82	0.41	87,87,87,87	0
56	MG	FB	1657	1/1	0.82	0.17	166,166,166,166	0
56	MG	B	9266	1/1	0.82	0.12	82,82,82,82	0
56	MG	GB	9363	1/1	0.82	0.29	97,97,97,97	0
56	MG	FB	1722	1/1	0.82	0.16	105,105,105,105	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9355	1/1	0.82	0.07	158,158,158,158	0
56	MG	FB	1761	1/1	0.82	0.18	125,125,125,125	0
56	MG	FB	1687	1/1	0.82	0.15	116,116,116,116	0
56	MG	FB	1763	1/1	0.82	0.08	108,108,108,108	0
56	MG	EA	101	1/1	0.82	0.15	85,85,85,85	0
56	MG	FB	1661	1/1	0.82	0.14	90,90,90,90	0
56	MG	B	9356	1/1	0.82	0.11	96,96,96,96	0
56	MG	GB	9216	1/1	0.82	0.28	90,90,90,90	0
56	MG	B	9117	1/1	0.82	0.28	79,79,79,79	0
56	MG	B	9367	1/1	0.82	0.13	102,102,102,102	0
56	MG	B	9009	1/1	0.82	0.30	82,82,82,82	0
56	MG	JB	305	1/1	0.82	0.15	112,112,112,112	0
56	MG	LB	301	1/1	0.82	0.06	118,118,118,118	0
56	MG	GB	9100	1/1	0.82	0.28	112,112,112,112	0
56	MG	F	302	1/1	0.82	0.08	119,119,119,119	0
56	MG	IA	106	1/1	0.82	0.10	135,135,135,135	0
56	MG	B	9270	1/1	0.82	0.14	93,93,93,93	0
56	MG	B	9134	1/1	0.82	0.24	80,80,80,80	0
56	MG	GB	9286	1/1	0.82	0.28	105,105,105,105	0
56	MG	QB	201	1/1	0.82	0.27	104,104,104,104	0
56	MG	B	9120	1/1	0.82	0.33	91,91,91,91	0
56	MG	B	9095	1/1	0.82	0.17	99,99,99,99	0
56	MG	B	9059	1/1	0.82	0.24	95,95,95,95	0
56	MG	GB	9071	1/1	0.82	0.29	105,105,105,105	0
56	MG	A	1679	1/1	0.82	0.11	125,125,125,125	0
56	MG	B	9086	1/1	0.82	0.30	93,93,93,93	0
56	MG	B	9127	1/1	0.82	0.34	104,104,104,104	0
56	MG	FB	1628	1/1	0.82	0.23	98,98,98,98	0
56	MG	A	1610	1/1	0.82	0.15	152,152,152,152	0
56	MG	VB	201	1/1	0.83	0.14	105,105,105,105	0
56	MG	B	9069	1/1	0.83	0.20	111,111,111,111	0
56	MG	B	9083	1/1	0.83	0.28	100,100,100,100	0
56	MG	FB	1713	1/1	0.83	0.11	163,163,163,163	0
56	MG	FB	1784	1/1	0.83	0.12	137,137,137,137	0
56	MG	A	1632	1/1	0.83	0.40	89,89,89,89	0
56	MG	B	9400	1/1	0.83	0.08	136,136,136,136	0
56	MG	C	222	1/1	0.83	0.13	164,164,164,164	0
56	MG	B	9343	1/1	0.83	0.23	110,110,110,110	0
56	MG	GB	9074	1/1	0.83	0.26	101,101,101,101	0
56	MG	GB	9032	1/1	0.83	0.33	86,86,86,86	0
56	MG	B	9114	1/1	0.83	0.18	88,88,88,88	0
56	MG	B	9159	1/1	0.83	0.10	163,163,163,163	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1669	1/1	0.83	0.23	105,105,105,105	0
56	MG	GB	9036	1/1	0.83	0.23	85,85,85,85	0
56	MG	GB	9367	1/1	0.83	0.12	118,118,118,118	0
56	MG	FB	1626	1/1	0.83	0.41	103,103,103,103	0
56	MG	NC	110	1/1	0.83	0.29	100,100,100,100	0
56	MG	GB	9249	1/1	0.83	0.07	107,107,107,107	0
56	MG	B	9406	1/1	0.83	0.11	130,130,130,130	0
56	MG	B	9411	1/1	0.83	0.08	139,139,139,139	0
56	MG	B	9320	1/1	0.83	0.17	86,86,86,86	0
56	MG	B	9211	1/1	0.83	0.09	169,169,169,169	0
56	MG	FB	1701	1/1	0.83	0.24	114,114,114,114	0
56	MG	GB	9012	1/1	0.83	0.45	77,77,77,77	0
56	MG	GB	9261	1/1	0.83	0.23	104,104,104,104	0
56	MG	GB	9164	1/1	0.83	0.28	85,85,85,85	0
56	MG	B	9240	1/1	0.83	0.06	88,88,88,88	0
56	MG	GB	9267	1/1	0.83	0.09	118,118,118,118	0
56	MG	B	9304	1/1	0.83	0.08	86,86,86,86	0
56	MG	B	9018	1/1	0.83	0.24	82,82,82,82	0
56	MG	FB	1654	1/1	0.83	0.17	111,111,111,111	0
56	MG	GB	9170	1/1	0.83	0.15	101,101,101,101	0
56	MG	B	9049	1/1	0.83	0.26	69,69,69,69	0
56	MG	GB	9274	1/1	0.83	0.31	103,103,103,103	0
56	MG	B	9389	1/1	0.83	0.17	112,112,112,112	0
56	MG	AD	202	1/1	0.83	0.23	103,103,103,103	0
56	MG	B	9151	1/1	0.83	0.16	95,95,95,95	0
56	MG	GB	9327	1/1	0.83	0.10	171,171,171,171	0
56	MG	FB	1741	1/1	0.83	0.22	106,106,106,106	0
56	MG	B	9331	1/1	0.84	0.07	118,118,118,118	0
56	MG	A	1735	1/1	0.84	0.12	106,106,106,106	0
56	MG	B	9264	1/1	0.84	0.07	98,98,98,98	0
56	MG	FB	1715	1/1	0.84	0.19	121,121,121,121	0
56	MG	B	9143	1/1	0.84	0.22	102,102,102,102	0
56	MG	GB	9160	1/1	0.84	0.15	97,97,97,97	0
56	MG	GB	9162	1/1	0.84	0.10	97,97,97,97	0
56	MG	FB	1718	1/1	0.84	0.12	133,133,133,133	0
56	MG	A	1673	1/1	0.84	0.14	121,121,121,121	0
56	MG	B	9165	1/1	0.84	0.09	104,104,104,104	0
56	MG	FB	1655	1/1	0.84	0.24	103,103,103,103	0
56	MG	B	9387	1/1	0.84	0.14	124,124,124,124	0
56	MG	B	9167	1/1	0.84	0.21	95,95,95,95	0
56	MG	GB	9094	1/1	0.84	0.39	89,89,89,89	0
56	MG	B	9391	1/1	0.84	0.14	121,121,121,121	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9332	1/1	0.84	0.08	102,102,102,102	0
56	MG	GB	9334	1/1	0.84	0.32	89,89,89,89	0
56	MG	GB	9285	1/1	0.84	0.20	108,108,108,108	0
56	MG	B	9006	1/1	0.84	0.29	61,61,61,61	0
56	MG	B	9197	1/1	0.84	0.22	73,73,73,73	0
56	MG	B	9071	1/1	0.84	0.21	85,85,85,85	0
56	MG	B	9148	1/1	0.84	0.25	99,99,99,99	0
56	MG	A	1743	1/1	0.84	0.17	121,121,121,121	0
56	MG	GB	9237	1/1	0.84	0.14	117,117,117,117	0
56	MG	GB	9134	1/1	0.84	0.15	111,111,111,111	0
56	MG	GB	9358	1/1	0.84	0.09	94,94,94,94	0
56	MG	B	9315	1/1	0.84	0.25	91,91,91,91	0
56	MG	GB	9361	1/1	0.84	0.14	86,86,86,86	0
56	MG	A	1765	1/1	0.84	0.08	134,134,134,134	0
56	MG	GB	9065	1/1	0.84	0.36	81,81,81,81	0
56	MG	B	9283	1/1	0.84	0.21	105,105,105,105	0
56	MG	K	202	1/1	0.84	0.10	105,105,105,105	0
56	MG	GB	9369	1/1	0.84	0.19	95,95,95,95	0
56	MG	B	9074	1/1	0.84	0.13	109,109,109,109	0
56	MG	GB	9141	1/1	0.84	0.21	101,101,101,101	0
56	MG	L	203	1/1	0.84	0.09	89,89,89,89	0
56	MG	A	1655	1/1	0.84	0.15	232,232,232,232	0
56	MG	GB	9252	1/1	0.84	0.19	94,94,94,94	0
56	MG	A	1746	1/1	0.84	0.14	116,116,116,116	0
56	MG	B	9259	1/1	0.84	0.13	100,100,100,100	0
56	MG	B	9290	1/1	0.84	0.27	107,107,107,107	0
56	MG	PA	203	1/1	0.84	0.09	127,127,127,127	0
56	MG	A	1647	1/1	0.84	0.24	127,127,127,127	0
56	MG	GB	9387	1/1	0.84	0.14	131,131,131,131	0
56	MG	B	9271	1/1	0.85	0.09	76,76,76,76	0
56	MG	B	9323	1/1	0.85	0.09	68,68,68,68	0
56	MG	UB	203	1/1	0.85	0.08	130,130,130,130	0
56	MG	B	9012	1/1	0.85	0.33	70,70,70,70	0
56	MG	GB	9283	1/1	0.85	0.31	99,99,99,99	0
56	MG	GB	9232	1/1	0.85	0.18	106,106,106,106	0
56	MG	AC	202	1/1	0.85	0.22	124,124,124,124	0
56	MG	GB	9006	1/1	0.85	0.51	87,87,87,87	0
56	MG	GB	9402	1/1	0.85	0.12	122,122,122,122	0
56	MG	B	9103	1/1	0.85	0.13	87,87,87,87	0
56	MG	GB	9144	1/1	0.85	0.16	80,80,80,80	0
56	MG	K	203	1/1	0.85	0.07	130,130,130,130	0
56	MG	B	9077	1/1	0.85	0.13	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9148	1/1	0.85	0.19	86,86,86,86	0
56	MG	B	9195	1/1	0.85	0.09	85,85,85,85	0
56	MG	A	1637	1/1	0.85	0.20	102,102,102,102	0
56	MG	GB	9245	1/1	0.85	0.09	107,107,107,107	0
56	MG	GB	9045	1/1	0.85	0.12	89,89,89,89	0
56	MG	GB	9357	1/1	0.85	0.07	125,125,125,125	0
56	MG	Q	201	1/1	0.85	0.14	121,121,121,121	0
56	MG	GB	9196	1/1	0.85	0.09	82,82,82,82	0
56	MG	B	9118	1/1	0.85	0.23	117,117,117,117	0
56	MG	GB	9199	1/1	0.85	0.16	98,98,98,98	0
56	MG	FB	1773	1/1	0.85	0.14	106,106,106,106	0
56	MG	GB	9366	1/1	0.85	0.11	92,92,92,92	0
56	MG	B	9309	1/1	0.85	0.09	159,159,159,159	0
56	MG	QC	303	1/1	0.85	0.19	155,155,155,155	0
56	MG	RC	301	1/1	0.85	0.11	151,151,151,151	0
56	MG	B	9372	1/1	0.85	0.09	102,102,102,102	0
56	MG	FB	1631	1/1	0.85	0.21	104,104,104,104	0
56	MG	FB	1681	1/1	0.85	0.13	126,126,126,126	0
56	MG	FB	1608	1/1	0.85	0.28	86,86,86,86	0
56	MG	B	9337	1/1	0.85	0.08	96,96,96,96	0
56	MG	GB	9165	1/1	0.85	0.22	83,83,83,83	0
56	MG	KB	302	1/1	0.85	0.14	99,99,99,99	0
56	MG	GB	9059	1/1	0.85	0.31	91,91,91,91	0
56	MG	B	9162	1/1	0.85	0.10	85,85,85,85	0
56	MG	GB	9318	1/1	0.85	0.07	112,112,112,112	0
56	MG	GB	9382	1/1	0.85	0.30	107,107,107,107	0
56	MG	B	9087	1/1	0.85	0.13	80,80,80,80	0
56	MG	HA	101	1/1	0.85	0.17	129,129,129,129	0
56	MG	B	9184	1/1	0.85	0.24	77,77,77,77	0
56	MG	FB	1717	1/1	0.85	0.08	129,129,129,129	0
56	MG	B	9004	1/1	0.85	0.36	70,70,70,70	0
56	MG	B	9152	1/1	0.85	0.14	89,89,89,89	0
56	MG	A	1627	1/1	0.85	0.21	101,101,101,101	0
56	MG	B	9208	1/1	0.85	0.09	104,104,104,104	0
56	MG	B	9244	1/1	0.86	0.23	101,101,101,101	0
56	MG	FB	1602	1/1	0.86	0.40	87,87,87,87	0
56	MG	GB	9029	1/1	0.86	0.21	71,71,71,71	0
56	MG	VB	203	1/1	0.86	0.15	112,112,112,112	0
56	MG	B	9364	1/1	0.86	0.12	95,95,95,95	0
56	MG	FB	1748	1/1	0.86	0.09	119,119,119,119	0
56	MG	GB	9242	1/1	0.86	0.10	122,122,122,122	0
56	MG	FB	1712	1/1	0.86	0.07	111,111,111,111	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9346	1/1	0.86	0.08	118,118,118,118	0
56	MG	GB	9348	1/1	0.86	0.07	112,112,112,112	0
56	MG	GB	9192	1/1	0.86	0.18	123,123,123,123	0
56	MG	A	1695	1/1	0.86	0.27	101,101,101,101	0
56	MG	A	1772	1/1	0.86	0.10	91,91,91,91	0
56	MG	B	9370	1/1	0.86	0.08	108,108,108,108	0
56	MG	B	9326	1/1	0.86	0.08	79,79,79,79	0
56	MG	S	201	1/1	0.86	0.07	111,111,111,111	0
56	MG	GB	9359	1/1	0.86	0.12	123,123,123,123	0
56	MG	T	202	1/1	0.86	0.10	105,105,105,105	0
56	MG	B	9294	1/1	0.86	0.17	82,82,82,82	0
56	MG	A	1709	1/1	0.86	0.15	107,107,107,107	0
56	MG	B	9329	1/1	0.86	0.12	91,91,91,91	0
56	MG	E	303	1/1	0.86	0.16	76,76,76,76	0
56	MG	GB	9087	1/1	0.86	0.20	81,81,81,81	0
56	MG	GB	9258	1/1	0.86	0.19	104,104,104,104	0
56	MG	B	9016	1/1	0.86	0.28	79,79,79,79	0
56	MG	GB	9046	1/1	0.86	0.24	91,91,91,91	0
56	MG	GB	9312	1/1	0.86	0.24	93,93,93,93	0
56	MG	JB	302	1/1	0.86	0.09	117,117,117,117	0
56	MG	FB	1694	1/1	0.86	0.08	143,143,143,143	0
56	MG	GB	9048	1/1	0.86	0.26	92,92,92,92	0
56	MG	GB	9265	1/1	0.86	0.17	106,106,106,106	0
56	MG	GB	9049	1/1	0.86	0.15	79,79,79,79	0
56	MG	B	9132	1/1	0.86	0.13	93,93,93,93	0
56	MG	B	9381	1/1	0.86	0.20	84,84,84,84	0
56	MG	B	9094	1/1	0.86	0.21	93,93,93,93	0
56	MG	F	304	1/1	0.86	0.06	119,119,119,119	0
56	MG	FB	1700	1/1	0.86	0.15	120,120,120,120	0
56	MG	A	1731	1/1	0.86	0.09	130,130,130,130	0
56	MG	B	9336	1/1	0.86	0.06	94,94,94,94	0
56	MG	B	9029	1/1	0.86	0.32	81,81,81,81	0
56	MG	YA	103	1/1	0.86	0.12	125,125,125,125	0
56	MG	B	9426	1/1	0.86	0.09	99,99,99,99	0
56	MG	B	9388	1/1	0.86	0.13	100,100,100,100	0
56	MG	TB	201	1/1	0.86	0.29	101,101,101,101	0
56	MG	GB	9394	1/1	0.86	0.09	88,88,88,88	0
56	MG	B	9359	1/1	0.86	0.13	78,78,78,78	0
56	MG	B	9317	1/1	0.87	0.04	137,137,137,137	0
56	MG	B	9295	1/1	0.87	0.06	108,108,108,108	0
56	MG	A	1646	1/1	0.87	0.17	120,120,120,120	0
56	MG	L	202	1/1	0.87	0.06	117,117,117,117	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9187	1/1	0.87	0.37	92,92,92,92	0
56	MG	B	9273	1/1	0.87	0.13	130,130,130,130	0
56	MG	A	1774	1/1	0.87	0.04	176,176,176,176	0
56	MG	FB	1749	1/1	0.87	0.16	110,110,110,110	0
56	MG	GB	9239	1/1	0.87	0.15	96,96,96,96	0
56	MG	B	9141	1/1	0.87	0.20	130,130,130,130	0
56	MG	B	9011	1/1	0.87	0.37	61,61,61,61	0
56	MG	B	9093	1/1	0.87	0.15	95,95,95,95	0
56	MG	B	9082	1/1	0.87	0.24	98,98,98,98	0
56	MG	FB	1610	1/1	0.87	0.38	87,87,87,87	0
56	MG	KB	301	1/1	0.87	0.46	90,90,90,90	0
56	MG	GB	9062	1/1	0.87	0.12	110,110,110,110	0
56	MG	GB	9163	1/1	0.87	0.10	94,94,94,94	0
56	MG	U	101	1/1	0.87	0.07	91,91,91,91	0
56	MG	B	9404	1/1	0.87	0.08	157,157,157,157	0
56	MG	B	9017	1/1	0.87	0.25	78,78,78,78	0
56	MG	GB	9393	1/1	0.87	0.08	84,84,84,84	0
56	MG	B	9407	1/1	0.87	0.12	114,114,114,114	0
56	MG	B	9028	1/1	0.87	0.37	90,90,90,90	0
56	MG	C	206	1/1	0.87	0.14	149,149,149,149	0
56	MG	GB	9211	1/1	0.87	0.17	123,123,123,123	0
56	MG	B	9413	1/1	0.87	0.10	100,100,100,100	0
56	MG	GB	9352	1/1	0.87	0.11	85,85,85,85	0
56	MG	HA	103	1/1	0.87	0.23	111,111,111,111	0
56	MG	B	9414	1/1	0.87	0.14	77,77,77,77	0
56	MG	B	9249	1/1	0.87	0.10	123,123,123,123	0
56	MG	B	9268	1/1	0.87	0.19	94,94,94,94	0
56	MG	A	1775	1/1	0.87	0.05	208,208,208,208	0
56	MG	GB	9079	1/1	0.87	0.22	86,86,86,86	0
56	MG	GB	9222	1/1	0.87	0.28	93,93,93,93	0
56	MG	B	9113	1/1	0.87	0.15	98,98,98,98	0
56	MG	XB	201	1/1	0.87	0.12	117,117,117,117	0
56	MG	GB	9179	1/1	0.87	0.20	87,87,87,87	0
56	MG	A	1779	1/1	0.87	0.08	152,152,152,152	0
56	MG	C	216	1/1	0.87	0.09	167,167,167,167	0
56	MG	VB	202	1/1	0.88	0.13	97,97,97,97	0
56	MG	B	9397	1/1	0.88	0.12	96,96,96,96	0
56	MG	B	9179	1/1	0.88	0.09	158,158,158,158	0
56	MG	GB	9002	1/1	0.88	0.57	75,75,75,75	0
56	MG	B	9106	1/1	0.88	0.15	72,72,72,72	0
56	MG	A	1678	1/1	0.88	0.12	97,97,97,97	0
56	MG	B	9281	1/1	0.88	0.23	87,87,87,87	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	C	210	1/1	0.88	0.12	125,125,125,125	0
56	MG	B	9110	1/1	0.88	0.30	71,71,71,71	0
56	MG	A	1716	1/1	0.88	0.20	112,112,112,112	0
56	MG	GB	9362	1/1	0.88	0.11	147,147,147,147	0
56	MG	GB	9214	1/1	0.88	0.06	99,99,99,99	0
56	MG	B	9154	1/1	0.88	0.37	76,76,76,76	0
56	MG	A	1733	1/1	0.88	0.07	143,143,143,143	0
56	MG	B	9091	1/1	0.88	0.23	78,78,78,78	0
56	MG	NC	104	1/1	0.88	0.13	134,134,134,134	0
56	MG	GB	9264	1/1	0.88	0.09	126,126,126,126	0
56	MG	OA	202	1/1	0.88	0.09	131,131,131,131	0
56	MG	OA	203	1/1	0.88	0.12	123,123,123,123	0
56	MG	B	9369	1/1	0.88	0.16	90,90,90,90	0
56	MG	A	1744	1/1	0.88	0.17	123,123,123,123	0
56	MG	A	1611	1/1	0.88	0.26	84,84,84,84	0
56	MG	A	1662	1/1	0.88	0.11	105,105,105,105	0
56	MG	B	9225	1/1	0.88	0.12	147,147,147,147	0
56	MG	JB	304	1/1	0.88	0.18	101,101,101,101	0
56	MG	B	9228	1/1	0.88	0.14	76,76,76,76	0
56	MG	A	1767	1/1	0.88	0.15	93,93,93,93	0
56	MG	B	9297	1/1	0.88	0.13	100,100,100,100	0
56	MG	B	9263	1/1	0.88	0.13	77,77,77,77	0
56	MG	B	9026	1/1	0.88	0.26	92,92,92,92	0
56	MG	A	1705	1/1	0.88	0.19	105,105,105,105	0
56	MG	GB	9282	1/1	0.88	0.11	107,107,107,107	0
56	MG	FB	1698	1/1	0.88	0.08	120,120,120,120	0
56	MG	GB	9189	1/1	0.88	0.11	154,154,154,154	0
56	MG	B	9198	1/1	0.88	0.15	92,92,92,92	0
56	MG	B	9046	1/1	0.88	0.26	70,70,70,70	0
56	MG	B	9081	1/1	0.88	0.13	98,98,98,98	0
56	MG	A	1626	1/1	0.88	0.24	98,98,98,98	0
56	MG	FB	1740	1/1	0.88	0.08	156,156,156,156	0
56	MG	GB	9341	1/1	0.88	0.21	96,96,96,96	0
56	MG	A	1771	1/1	0.88	0.18	99,99,99,99	0
56	MG	GB	9345	1/1	0.88	0.28	106,106,106,106	0
56	MG	B	9031	1/1	0.88	0.34	78,78,78,78	0
56	MG	B	9176	1/1	0.88	0.21	90,90,90,90	0
56	MG	DD	101	1/1	0.88	0.14	144,144,144,144	0
56	MG	GB	9403	1/1	0.88	0.10	89,89,89,89	0
56	MG	A	1659	1/1	0.88	0.16	124,124,124,124	0
56	MG	T	201	1/1	0.89	0.08	101,101,101,101	0
56	MG	E	302	1/1	0.89	0.16	97,97,97,97	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9069	1/1	0.89	0.30	82,82,82,82	0
56	MG	GB	9171	1/1	0.89	0.24	88,88,88,88	0
56	MG	GB	9209	1/1	0.89	0.14	89,89,89,89	0
56	MG	FB	1764	1/1	0.89	0.24	136,136,136,136	0
56	MG	GB	9333	1/1	0.89	0.14	82,82,82,82	0
56	MG	B	9363	1/1	0.89	0.16	103,103,103,103	0
56	MG	A	1608	1/1	0.89	0.22	96,96,96,96	0
56	MG	B	9341	1/1	0.89	0.08	121,121,121,121	0
56	MG	GB	9338	1/1	0.89	0.05	136,136,136,136	0
56	MG	GB	9255	1/1	0.89	0.09	107,107,107,107	0
56	MG	B	9209	1/1	0.89	0.18	90,90,90,90	0
56	MG	B	9322	1/1	0.89	0.06	85,85,85,85	0
56	MG	CA	102	1/1	0.89	0.05	116,116,116,116	0
56	MG	B	9424	1/1	0.89	0.10	112,112,112,112	0
56	MG	B	9287	1/1	0.89	0.15	82,82,82,82	0
56	MG	GB	9016	1/1	0.89	0.28	98,98,98,98	0
56	MG	B	9166	1/1	0.89	0.14	82,82,82,82	0
56	MG	B	9178	1/1	0.89	0.07	125,125,125,125	0
56	MG	GB	9353	1/1	0.89	0.28	100,100,100,100	0
56	MG	B	9189	1/1	0.89	0.29	102,102,102,102	0
56	MG	A	1684	1/1	0.89	0.08	111,111,111,111	0
56	MG	B	9107	1/1	0.89	0.17	91,91,91,91	0
56	MG	B	9313	1/1	0.89	0.10	91,91,91,91	0
56	MG	GB	9023	1/1	0.89	0.37	79,79,79,79	0
56	MG	FB	1750	1/1	0.89	0.16	105,105,105,105	0
56	MG	GB	9156	1/1	0.89	0.23	86,86,86,86	0
56	MG	GB	9317	1/1	0.89	0.11	116,116,116,116	0
56	MG	B	9218	1/1	0.89	0.10	78,78,78,78	0
56	MG	FB	1721	1/1	0.89	0.10	118,118,118,118	0
56	MG	A	1736	1/1	0.89	0.07	169,169,169,169	0
56	MG	A	1723	1/1	0.89	0.13	170,170,170,170	0
56	MG	M	203	1/1	0.89	0.21	82,82,82,82	0
56	MG	ZB	102	1/1	0.89	0.05	100,100,100,100	0
56	MG	AD	203	1/1	0.89	0.09	99,99,99,99	0
56	MG	AD	204	1/1	0.89	0.07	96,96,96,96	0
56	MG	B	9408	1/1	0.89	0.22	85,85,85,85	0
56	MG	B	9384	1/1	0.89	0.09	98,98,98,98	0
56	MG	B	9251	1/1	0.89	0.20	106,106,106,106	0
56	MG	B	9164	1/1	0.89	0.24	90,90,90,90	0
56	MG	GB	9356	1/1	0.90	0.17	90,90,90,90	0
56	MG	B	9357	1/1	0.90	0.11	94,94,94,94	0
56	MG	GB	9085	1/1	0.90	0.16	97,97,97,97	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9226	1/1	0.90	0.09	91,91,91,91	0
56	MG	B	9358	1/1	0.90	0.10	121,121,121,121	0
56	MG	GB	9315	1/1	0.90	0.05	151,151,151,151	0
56	MG	B	9298	1/1	0.90	0.13	92,92,92,92	0
56	MG	B	9318	1/1	0.90	0.12	137,137,137,137	0
56	MG	A	1708	1/1	0.90	0.06	134,134,134,134	0
56	MG	A	1619	1/1	0.90	0.27	82,82,82,82	0
56	MG	GB	9273	1/1	0.90	0.09	96,96,96,96	0
56	MG	A	1773	1/1	0.90	0.12	116,116,116,116	0
56	MG	HB	218	1/1	0.90	0.14	129,129,129,129	0
56	MG	B	9286	1/1	0.90	0.08	84,84,84,84	0
56	MG	B	9257	1/1	0.90	0.20	92,92,92,92	0
56	MG	GB	9124	1/1	0.90	0.14	104,104,104,104	0
56	MG	B	9395	1/1	0.90	0.25	76,76,76,76	0
56	MG	FB	1734	1/1	0.90	0.14	109,109,109,109	0
56	MG	B	9191	1/1	0.90	0.19	90,90,90,90	0
56	MG	V	503	1/1	0.90	0.06	93,93,93,93	0
56	MG	Y	101	1/1	0.90	0.17	97,97,97,97	0
56	MG	GB	9099	1/1	0.90	0.13	93,93,93,93	0
56	MG	GB	9202	1/1	0.90	0.09	86,86,86,86	0
56	MG	B	9053	1/1	0.90	0.15	84,84,84,84	0
56	MG	Y	103	1/1	0.90	0.11	101,101,101,101	0
56	MG	B	9398	1/1	0.90	0.06	96,96,96,96	0
56	MG	GB	9042	1/1	0.90	0.24	78,78,78,78	0
56	MG	GB	9336	1/1	0.90	0.17	121,121,121,121	0
56	MG	B	9223	1/1	0.90	0.15	74,74,74,74	0
56	MG	B	9185	1/1	0.90	0.12	61,61,61,61	0
56	MG	GB	9251	1/1	0.90	0.27	87,87,87,87	0
56	MG	QB	202	1/1	0.90	0.10	100,100,100,100	0
56	MG	B	9292	1/1	0.90	0.08	98,98,98,98	0
56	MG	GB	9342	1/1	0.90	0.08	111,111,111,111	0
56	MG	B	9236	1/1	0.90	0.12	77,77,77,77	0
56	MG	HA	102	1/1	0.90	0.36	133,133,133,133	0
56	MG	B	9108	1/1	0.90	0.16	84,84,84,84	0
56	MG	GB	9347	1/1	0.90	0.07	126,126,126,126	0
56	MG	B	9252	1/1	0.90	0.13	98,98,98,98	0
56	MG	GB	9142	1/1	0.90	0.18	96,96,96,96	0
56	MG	GB	9217	1/1	0.90	0.07	141,141,141,141	0
56	MG	GB	9351	1/1	0.90	0.15	113,113,113,113	0
56	MG	B	9187	1/1	0.90	0.25	101,101,101,101	0
56	MG	GB	9082	1/1	0.90	0.27	105,105,105,105	0
56	MG	GB	9145	1/1	0.90	0.14	101,101,101,101	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	L	201	1/1	0.90	0.10	114,114,114,114	0
56	MG	O	201	1/1	0.91	0.26	83,83,83,83	0
56	MG	B	9293	1/1	0.91	0.21	94,94,94,94	0
56	MG	GB	9070	1/1	0.91	0.27	81,81,81,81	0
56	MG	B	9090	1/1	0.91	0.17	77,77,77,77	0
56	MG	A	1625	1/1	0.91	0.11	94,94,94,94	0
56	MG	GB	9073	1/1	0.91	0.17	77,77,77,77	0
56	MG	B	9250	1/1	0.91	0.21	99,99,99,99	0
56	MG	A	1661	1/1	0.91	0.10	103,103,103,103	0
56	MG	GB	9050	1/1	0.91	0.22	76,76,76,76	0
56	MG	B	9022	1/1	0.91	0.24	78,78,78,78	0
56	MG	FB	1747	1/1	0.91	0.07	116,116,116,116	0
56	MG	B	9196	1/1	0.91	0.09	93,93,93,93	0
56	MG	B	9008	1/1	0.91	0.27	61,61,61,61	0
56	MG	GB	9281	1/1	0.91	0.14	97,97,97,97	0
56	MG	GB	9159	1/1	0.91	0.26	94,94,94,94	0
56	MG	PA	202	1/1	0.91	0.08	125,125,125,125	0
56	MG	B	9153	1/1	0.91	0.20	66,66,66,66	0
56	MG	B	9126	1/1	0.91	0.33	116,116,116,116	0
56	MG	A	1670	1/1	0.91	0.07	91,91,91,91	0
56	MG	FB	1779	1/1	0.91	0.09	115,115,115,115	0
56	MG	B	9063	1/1	0.91	0.19	90,90,90,90	0
56	MG	FB	1755	1/1	0.91	0.17	104,104,104,104	0
56	MG	JB	301	1/1	0.91	0.15	75,75,75,75	0
56	MG	GB	9291	1/1	0.91	0.09	124,124,124,124	0
56	MG	B	9217	1/1	0.91	0.12	98,98,98,98	0
56	MG	B	9274	1/1	0.91	0.05	84,84,84,84	0
56	MG	GB	9064	1/1	0.91	0.20	80,80,80,80	0
56	MG	JC	101	1/1	0.91	0.14	87,87,87,87	0
56	MG	GB	9399	1/1	0.91	0.19	129,129,129,129	0
56	MG	B	9405	1/1	0.91	0.11	103,103,103,103	0
56	MG	GB	9233	1/1	0.91	0.14	83,83,83,83	0
56	MG	B	9168	1/1	0.91	0.15	91,91,91,91	0
56	MG	FA	101	1/1	0.91	0.15	98,98,98,98	0
56	MG	NC	103	1/1	0.91	0.19	112,112,112,112	0
56	MG	B	9227	1/1	0.92	0.13	93,93,93,93	0
56	MG	B	9354	1/1	0.92	0.12	103,103,103,103	0
56	MG	GB	9305	1/1	0.92	0.07	80,80,80,80	0
56	MG	B	9048	1/1	0.92	0.19	70,70,70,70	0
56	MG	C	212	1/1	0.92	0.13	138,138,138,138	0
56	MG	PB	202	1/1	0.92	0.05	127,127,127,127	0
56	MG	GB	9186	1/1	0.92	0.16	80,80,80,80	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	GB	9372	1/1	0.92	0.07	101,101,101,101	0
56	MG	A	1680	1/1	0.92	0.17	84,84,84,84	0
56	MG	OC	401	1/1	0.92	0.14	171,171,171,171	0
56	MG	GB	9340	1/1	0.92	0.11	111,111,111,111	0
56	MG	RB	203	1/1	0.92	0.09	103,103,103,103	0
56	MG	B	9163	1/1	0.92	0.11	85,85,85,85	0
56	MG	GB	9037	1/1	0.92	0.22	82,82,82,82	0
56	MG	GB	9378	1/1	0.92	0.07	134,134,134,134	0
56	MG	B	9010	1/1	0.92	0.32	69,69,69,69	0
56	MG	B	9065	1/1	0.92	0.14	69,69,69,69	0
56	MG	G	302	1/1	0.92	0.14	90,90,90,90	0
56	MG	B	9361	1/1	0.92	0.10	91,91,91,91	0
56	MG	GB	9384	1/1	0.92	0.13	131,131,131,131	0
56	MG	B	9051	1/1	0.92	0.11	93,93,93,93	0
56	MG	A	1703	1/1	0.92	0.16	101,101,101,101	0
56	MG	B	9128	1/1	0.92	0.18	106,106,106,106	0
56	MG	B	9366	1/1	0.92	0.09	76,76,76,76	0
56	MG	ZB	101	1/1	0.92	0.11	103,103,103,103	0
56	MG	FB	1786	1/1	0.92	0.09	96,96,96,96	0
56	MG	A	1761	1/1	0.92	0.11	106,106,106,106	0
56	MG	B	9170	1/1	0.92	0.11	78,78,78,78	0
56	MG	FB	1711	1/1	0.92	0.10	118,118,118,118	0
56	MG	B	9047	1/1	0.92	0.28	89,89,89,89	0
56	MG	FB	1667	1/1	0.92	0.20	103,103,103,103	0
56	MG	B	9172	1/1	0.92	0.14	87,87,87,87	0
56	MG	GB	9266	1/1	0.92	0.08	118,118,118,118	0
56	MG	B	9299	1/1	0.92	0.10	101,101,101,101	0
56	MG	M	201	1/1	0.92	0.07	104,104,104,104	0
56	MG	GB	9210	1/1	0.92	0.15	99,99,99,99	0
56	MG	B	9333	1/1	0.92	0.10	85,85,85,85	0
58	ZN	IC	101	1/1	0.92	0.13	158,158,158,158	0
56	MG	B	9147	1/1	0.93	0.08	103,103,103,103	0
56	MG	B	9410	1/1	0.93	0.08	84,84,84,84	0
56	MG	VA	202	1/1	0.93	0.13	127,127,127,127	0
56	MG	GB	9260	1/1	0.93	0.13	109,109,109,109	0
56	MG	B	9247	1/1	0.93	0.10	93,93,93,93	0
56	MG	E	301	1/1	0.93	0.23	68,68,68,68	0
56	MG	B	9412	1/1	0.93	0.08	82,82,82,82	0
56	MG	B	9390	1/1	0.93	0.10	89,89,89,89	0
56	MG	E	305	1/1	0.93	0.05	85,85,85,85	0
56	MG	GB	9009	1/1	0.93	0.30	78,78,78,78	0
56	MG	FB	1768	1/1	0.93	0.16	105,105,105,105	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1769	1/1	0.93	0.11	109,109,109,109	0
56	MG	GB	9376	1/1	0.93	0.06	143,143,143,143	0
56	MG	BB	101	1/1	0.93	0.13	118,118,118,118	0
56	MG	B	9034	1/1	0.93	0.15	69,69,69,69	0
56	MG	GB	9379	1/1	0.93	0.22	89,89,89,89	0
56	MG	B	9415	1/1	0.93	0.11	97,97,97,97	0
56	MG	B	9332	1/1	0.93	0.09	96,96,96,96	0
56	MG	GB	9344	1/1	0.93	0.14	100,100,100,100	0
56	MG	B	9035	1/1	0.93	0.28	69,69,69,69	0
56	MG	B	9275	1/1	0.93	0.12	76,76,76,76	0
56	MG	B	9420	1/1	0.93	0.20	94,94,94,94	0
56	MG	A	1629	1/1	0.93	0.26	85,85,85,85	0
56	MG	B	9160	1/1	0.93	0.18	103,103,103,103	0
56	MG	B	9214	1/1	0.93	0.07	93,93,93,93	0
56	MG	B	9377	1/1	0.93	0.07	92,92,92,92	0
56	MG	A	1753	1/1	0.93	0.07	132,132,132,132	0
56	MG	B	9340	1/1	0.93	0.06	85,85,85,85	0
56	MG	B	9097	1/1	0.93	0.12	73,73,73,73	0
56	MG	B	9360	1/1	0.93	0.04	106,106,106,106	0
56	MG	B	9325	1/1	0.93	0.19	92,92,92,92	0
56	MG	A	1724	1/1	0.93	0.07	100,100,100,100	0
56	MG	B	9137	1/1	0.93	0.12	83,83,83,83	0
56	MG	FB	1758	1/1	0.93	0.06	104,104,104,104	0
56	MG	GB	9221	1/1	0.93	0.13	80,80,80,80	0
58	ZN	BA	101	1/1	0.93	0.04	194,194,194,194	0
56	MG	B	9123	1/1	0.93	0.15	88,88,88,88	0
56	MG	GB	9299	1/1	0.94	0.06	162,162,162,162	0
56	MG	GB	9277	1/1	0.94	0.08	82,82,82,82	0
56	MG	GB	9198	1/1	0.94	0.07	89,89,89,89	0
56	MG	GB	9003	1/1	0.94	0.30	67,67,67,67	0
56	MG	B	9427	1/1	0.94	0.19	84,84,84,84	0
56	MG	B	9278	1/1	0.94	0.10	101,101,101,101	0
56	MG	E	304	1/1	0.94	0.08	85,85,85,85	0
56	MG	GB	9307	1/1	0.94	0.07	109,109,109,109	0
56	MG	B	9019	1/1	0.94	0.37	79,79,79,79	0
56	MG	GB	9223	1/1	0.94	0.06	85,85,85,85	0
56	MG	B	9353	1/1	0.94	0.13	92,92,92,92	0
56	MG	B	9003	1/1	0.94	0.40	64,64,64,64	0
56	MG	B	9386	1/1	0.94	0.08	114,114,114,114	0
56	MG	FB	1656	1/1	0.94	0.09	120,120,120,120	0
56	MG	FB	1789	1/1	0.94	0.19	107,107,107,107	0
56	MG	B	9312	1/1	0.94	0.04	122,122,122,122	0

Continued on next page...

Continued from previous page...

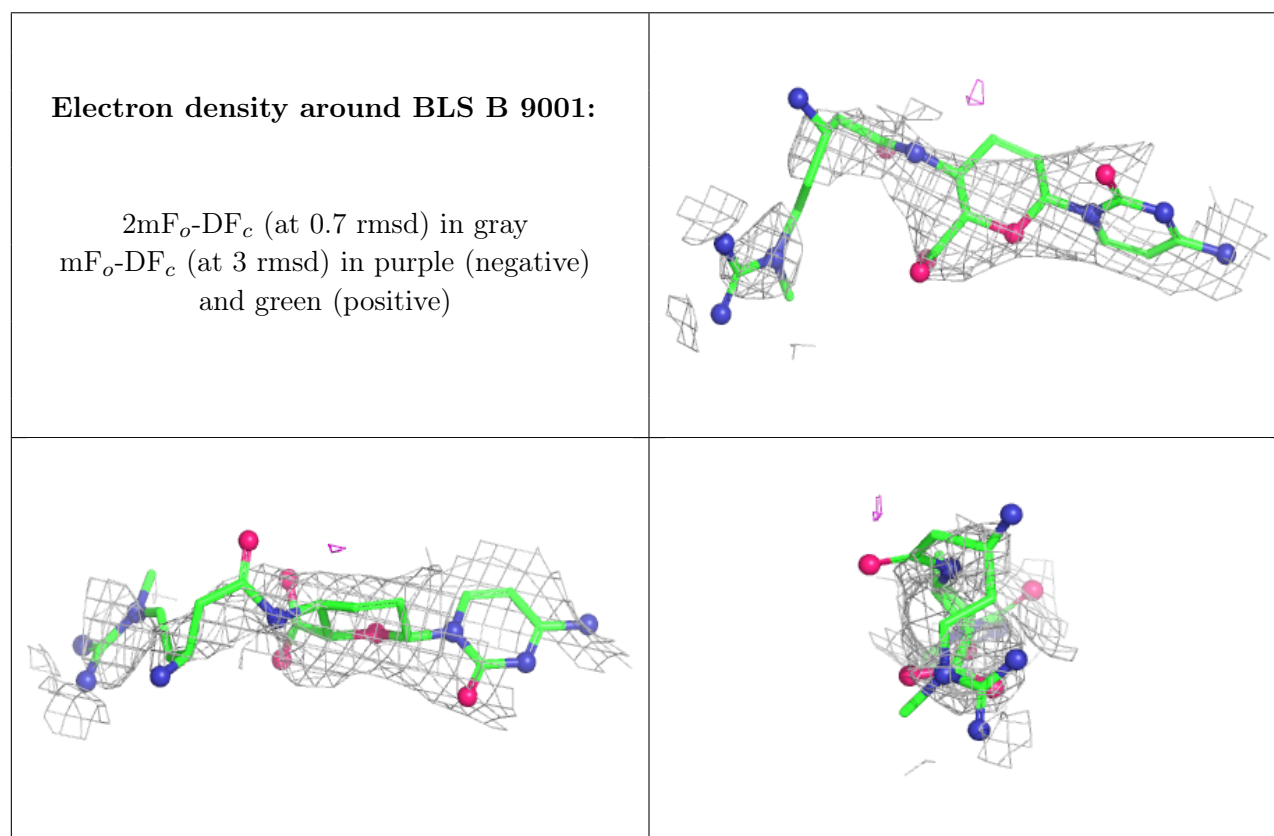
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	B	9242	1/1	0.94	0.18	93,93,93,93	0
56	MG	GB	9193	1/1	0.94	0.13	95,95,95,95	0
56	MG	B	9205	1/1	0.94	0.12	120,120,120,120	0
56	MG	B	9027	1/1	0.94	0.33	68,68,68,68	0
56	MG	B	9425	1/1	0.94	0.08	83,83,83,83	0
56	MG	A	1769	1/1	0.94	0.13	117,117,117,117	0
58	ZN	GC	101	1/1	0.94	0.05	206,206,206,206	0
56	MG	GB	9236	1/1	0.94	0.06	87,87,87,87	0
56	MG	GB	9365	1/1	0.95	0.11	87,87,87,87	0
56	MG	B	9039	1/1	0.95	0.07	68,68,68,68	0
56	MG	B	9279	1/1	0.95	0.16	93,93,93,93	0
56	MG	B	9216	1/1	0.95	0.13	85,85,85,85	0
56	MG	FB	1775	1/1	0.95	0.06	119,119,119,119	0
56	MG	B	9421	1/1	0.95	0.11	85,85,85,85	0
56	MG	KC	101	1/1	0.95	0.19	117,117,117,117	0
56	MG	FB	1676	1/1	0.95	0.14	94,94,94,94	0
56	MG	B	9085	1/1	0.95	0.09	77,77,77,77	0
56	MG	GB	9302	1/1	0.95	0.05	112,112,112,112	0
56	MG	B	9379	1/1	0.95	0.06	100,100,100,100	0
56	MG	FB	1719	1/1	0.95	0.05	150,150,150,150	0
56	MG	FB	1743	1/1	0.95	0.07	98,98,98,98	0
56	MG	B	9371	1/1	0.95	0.07	81,81,81,81	0
56	MG	A	1681	1/1	0.95	0.05	132,132,132,132	0
56	MG	B	9041	1/1	0.95	0.21	71,71,71,71	0
56	MG	GB	9396	1/1	0.95	0.10	78,78,78,78	0
56	MG	B	9306	1/1	0.96	0.06	83,83,83,83	0
56	MG	B	9300	1/1	0.96	0.09	89,89,89,89	0
56	MG	GB	9204	1/1	0.96	0.09	130,130,130,130	0
56	MG	B	9416	1/1	0.96	0.05	82,82,82,82	0
56	MG	FB	1746	1/1	0.96	0.07	96,96,96,96	0
56	MG	B	9374	1/1	0.96	0.08	94,94,94,94	0
56	MG	B	9202	1/1	0.96	0.05	80,80,80,80	0
56	MG	A	1741	1/1	0.96	0.04	109,109,109,109	0
56	MG	B	9096	1/1	0.96	0.08	78,78,78,78	0
56	MG	A	1651	1/1	0.96	0.04	175,175,175,175	0
56	MG	M	202	1/1	0.96	0.05	81,81,81,81	0
57	BLS	B	9001	30/30	0.96	0.11	105,105,106,106	0
57	BLS	GB	9001	30/30	0.96	0.09	104,104,105,105	0
56	MG	B	9173	1/1	0.96	0.29	86,86,86,86	0
58	ZN	DA	101	1/1	0.96	0.05	160,160,160,160	0
56	MG	GB	9161	1/1	0.96	0.07	101,101,101,101	0
56	MG	GB	9005	1/1	0.96	0.47	68,68,68,68	0

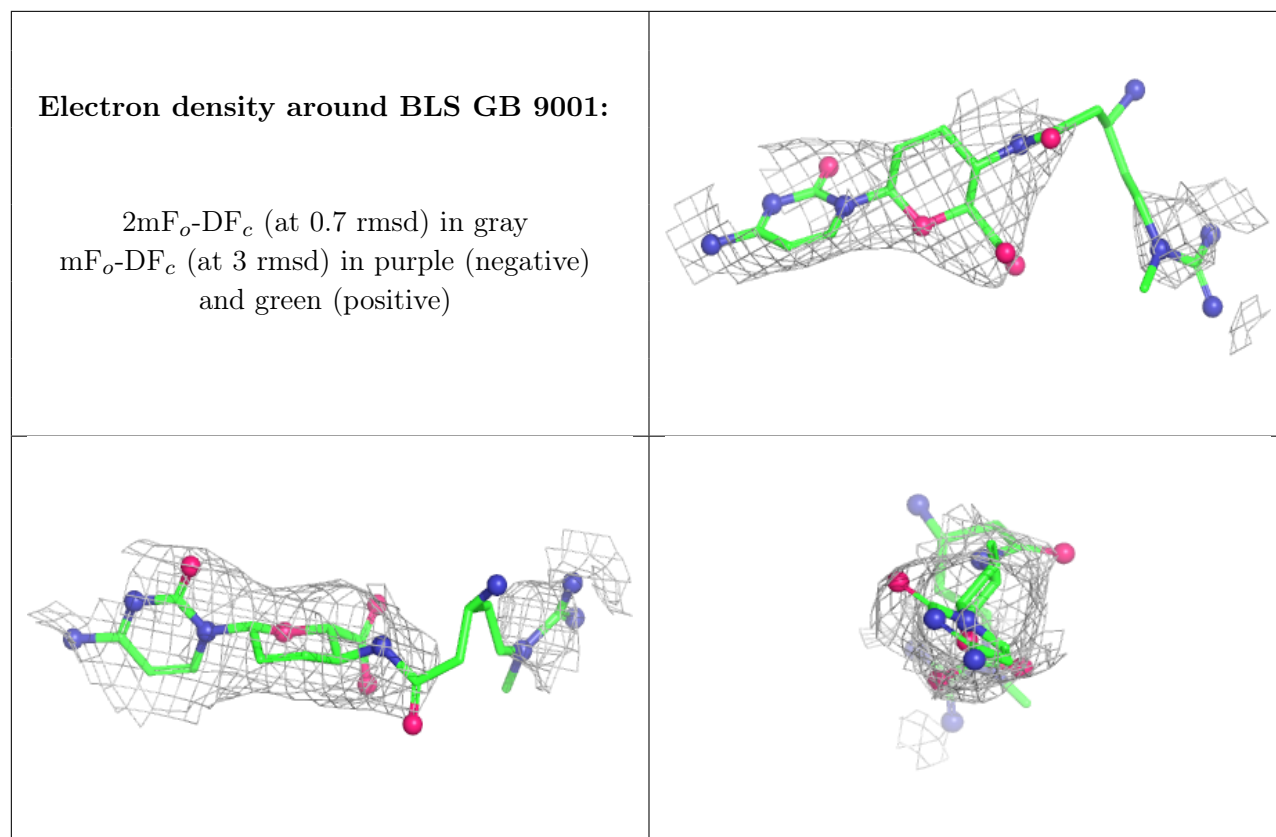
Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	FB	1742	1/1	0.97	0.04	121,121,121,121	0
56	MG	B	9226	1/1	0.97	0.33	70,70,70,70	0
58	ZN	V	501	1/1	0.97	0.05	123,123,123,123	0
56	MG	B	9339	1/1	0.97	0.11	88,88,88,88	0
56	MG	B	9365	1/1	0.97	0.09	84,84,84,84	0
58	ZN	GA	101	1/1	0.97	0.06	153,153,153,153	0
58	ZN	AC	201	1/1	0.97	0.05	147,147,147,147	0
56	MG	B	9394	1/1	0.97	0.07	71,71,71,71	0
56	MG	B	9261	1/1	0.97	0.15	66,66,66,66	0
56	MG	GB	9284	1/1	0.98	0.07	91,91,91,91	0
56	MG	B	9246	1/1	0.98	0.05	84,84,84,84	0
56	MG	GB	9370	1/1	0.98	0.03	127,127,127,127	0
56	MG	B	9344	1/1	0.98	0.12	93,93,93,93	0
56	MG	B	9409	1/1	0.98	0.18	83,83,83,83	0
58	ZN	LC	101	1/1	0.98	0.07	171,171,171,171	0
58	ZN	CA	101	1/1	0.99	0.02	125,125,125,125	0
58	ZN	HC	101	1/1	1.00	0.01	126,126,126,126	0

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





6.5 Other polymers [i](#)

There are no such residues in this entry.