



wwPDB X-ray Structure Validation Summary Report ⓘ

May 24, 2020 – 04:41 pm BST

PDB ID : 4X66
Title : Crystal Structure of 30S ribosomal subunit from *Thermus thermophilus*
Authors : Demirci, H.; Chen, J.; Choi, J.; Soltis, M.; Puglisi, J.D.
Deposited on : 2014-12-06
Resolution : 3.45 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
buster-report : 1.1.7 (2018)
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

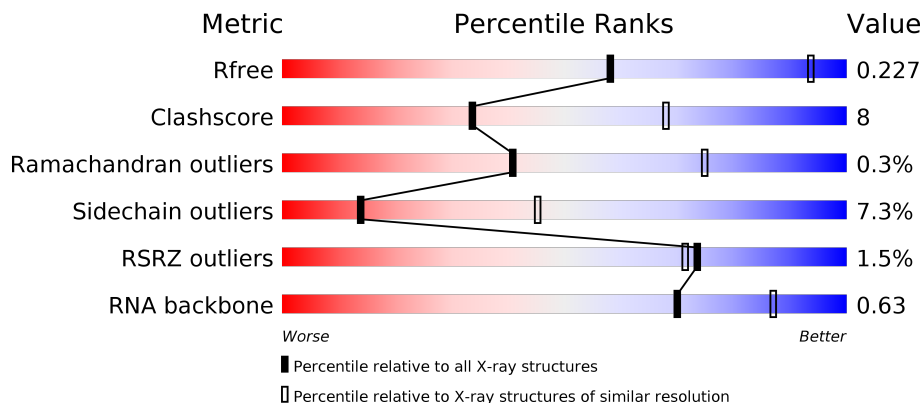
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION





The reported resolution of this entry is 3.45 Å.

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









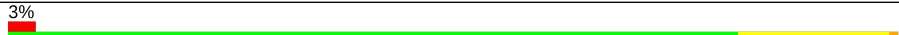
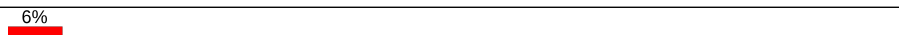
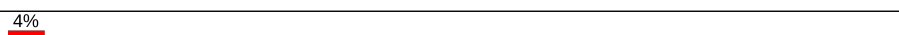


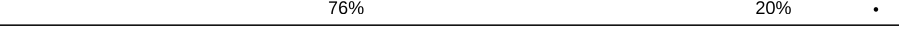







Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1278 (3.50-3.38)
Clashscore	141614	1361 (3.50-3.38)
Ramachandran outliers	138981	1327 (3.50-3.38)
Sidechain outliers	138945	1328 (3.50-3.38)
RSRZ outliers	127900	1192 (3.50-3.38)
RNA backbone	3102	1024 (3.92-2.96)

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

Mol	Chain	Length	Quality of chain
1	A	1522	
2	B	236	
3	C	207	
4	D	208	

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Mol	Chain	Length	Quality of chain
5	E	151	
6	F	101	
7	G	155	
8	H	138	
9	I	127	
10	J	99	
11	K	119	
12	L	125	
13	M	118	
14	N	60	
15	O	88	
16	P	84	
17	Q	99	
18	R	73	
19	S	81	
20	T	99	
21	U	25	
22	a	6	
23	b	11	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
24	PAR	A	1602	-	-	-	X
25	MG	A	1607	-	-	-	X
25	MG	A	1639	-	-	-	X
25	MG	A	1667	-	-	-	X
25	MG	A	1709	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
25	MG	A	1720	-	-	-	X
25	MG	A	1735	-	-	-	X
25	MG	A	1748	-	-	-	X
25	MG	A	1753	-	-	-	X
25	MG	A	1765	-	-	-	X
25	MG	A	1770	-	-	-	X
25	MG	A	1772	-	-	-	X
25	MG	A	1775	-	-	-	X
25	MG	A	1782	-	-	-	X
25	MG	A	1788	-	-	-	X
25	MG	A	1797	-	-	-	X
25	MG	A	1808	-	-	-	X
25	MG	A	1819	-	-	-	X
25	MG	A	1820	-	-	-	X
25	MG	A	1822	-	-	-	X
25	MG	A	1824	-	-	-	X
25	MG	A	1830	-	-	-	X
25	MG	A	1847	-	-	-	X
25	MG	A	1848	-	-	-	X
25	MG	A	1852	-	-	-	X
25	MG	A	1855	-	-	-	X
25	MG	A	1864	-	-	-	X
25	MG	A	1866	-	-	-	X
25	MG	A	1885	-	-	-	X
25	MG	C	301	-	-	-	X
25	MG	G	201	-	-	-	X
25	MG	H	201	-	-	-	X
25	MG	L	201	-	-	-	X
25	MG	Q	202	-	-	-	X
26	K	A	1888	-	-	-	X
26	K	A	1891	-	-	-	X
26	K	A	1904	-	-	-	X
26	K	A	1905	-	-	-	X
26	K	A	1907	-	-	-	X
26	K	A	1912	-	-	-	X
26	K	A	1913	-	-	-	X

2 Entry composition [i](#)

There are 28 unique types of molecules in this entry. The entry contains 52822 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	A	1512	32504	14477	6011	10505	1511	0	0	0

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1534	C	A	conflict	GB 55771382
A	1535	A	C	conflict	GB 55771382

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	236	1874	1195	336	338	5	0	0	1

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
5	E	151	1147	724	218	201	4	0	0	1

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
9	I	127	1010	639	197	174	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	J	99	793	498	157	137	1	0	0	1

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	L	125	973	612	196	163	2	0	0	1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	M	118	937	579	193	163	2	0	0	0

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
18	R	73	598	381	118	99	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
19	S	81	648	414	120	112	2	0	0	1

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

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

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
21	U	25	209	128	51	30	0	0	1

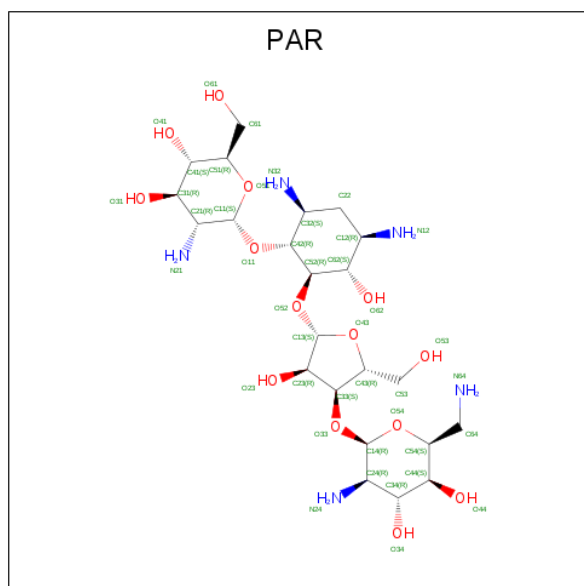
- Molecule 22 is a RNA chain called RNA (5'-D(*AP*AP*(MA6)P*UP*UP*U)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
22	a	6	124	58	21	40	5	0	0	0

- Molecule 23 is a RNA chain called RNA (5'-D(P*GP*AP*CP*UP*(70U)P*UP*UP*(12A)P*AP*(PSU)P*C)-3').

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
23	b	11	247	112	37	85	11	2	0	0	0

- Molecule 24 is PAROMOMYCIN (three-letter code: PAR) (formula: C₂₃H₄₅N₅O₁₄).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
24	A	1	42	23	5	14	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
24	A	1	Total	C	N	O	0	0
			42	23	5	14		
24	A	1	Total	C	N	O	0	0
			42	23	5	14		
24	A	1	Total	C	N	O	0	0
			42	23	5	14		
24	A	1	Total	C	N	O	0	0
			42	23	5	14		
24	A	1	Total	C	N	O	0	0
			42	23	5	14		

- Molecule 25 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
25	P	4	Total	Mg	0	0
			4	4		
25	G	1	Total	Mg	0	0
			1	1		
25	Q	2	Total	Mg	0	0
			2	2		
25	D	1	Total	Mg	0	0
			1	1		
25	E	1	Total	Mg	0	0
			1	1		
25	H	2	Total	Mg	0	0
			2	2		
25	b	1	Total	Mg	0	0
			1	1		
25	C	1	Total	Mg	0	0
			1	1		
25	a	1	Total	Mg	0	0
			1	1		
25	A	280	Total	Mg	0	0
			280	280		
25	T	1	Total	Mg	0	0
			1	1		
25	L	2	Total	Mg	0	0
			2	2		
25	S	3	Total	Mg	0	0
			3	3		
25	F	1	Total	Mg	0	0
			1	1		

- Molecule 26 is POTASSIUM ION (three-letter code: K) (formula: K).

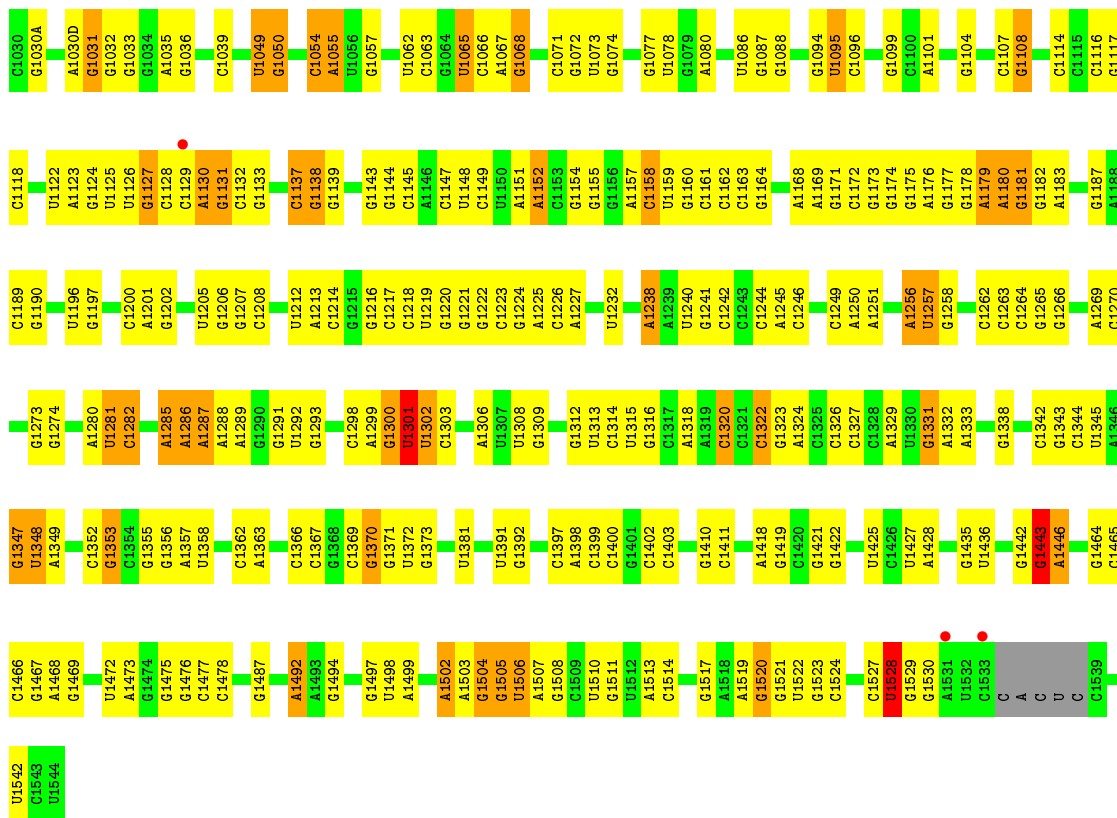
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
26	G	1	Total K 1 1	0	0
26	A	44	Total K 44 44	0	0
26	E	1	Total K 1 1	0	0

- Molecule 27 is ZINC ION (three-letter code: ZN) (formula: Zn).

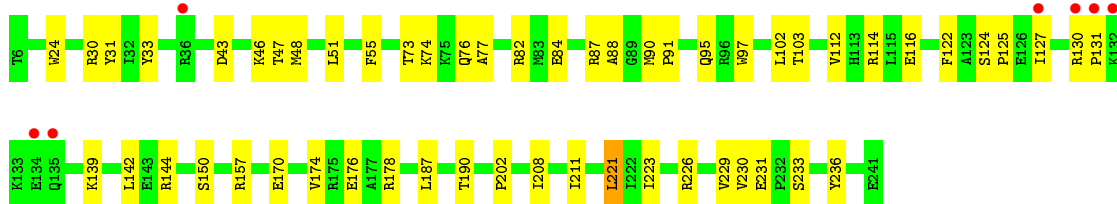
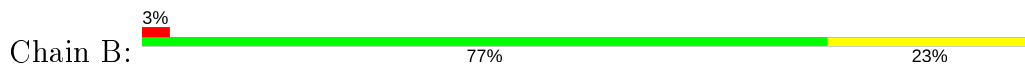
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
27	D	1	Total Zn 1 1	0	0
27	N	1	Total Zn 1 1	0	0

- Molecule 28 is water.

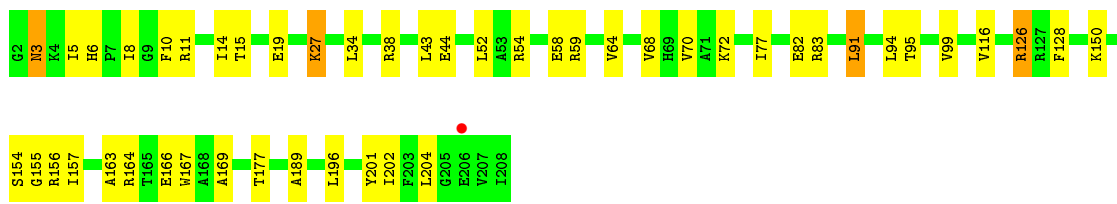
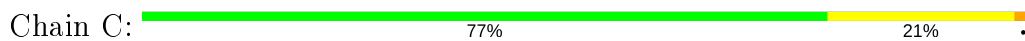
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
28	A	212	Total O 212 212	0	0
28	D	2	Total O 2 2	0	0
28	E	5	Total O 5 5	0	0
28	K	1	Total O 1 1	0	0
28	L	4	Total O 4 4	0	0
28	O	1	Total O 1 1	0	0
28	T	1	Total O 1 1	0	0
28	a	1	Total O 1 1	0	0



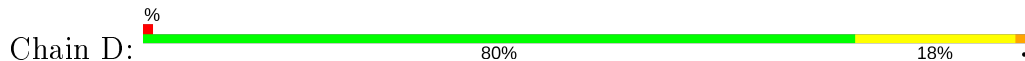
• Molecule 2: 30S ribosomal protein S2

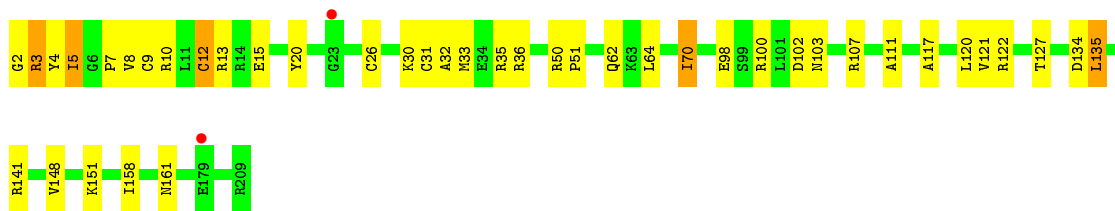


• Molecule 3: 30S ribosomal protein S3



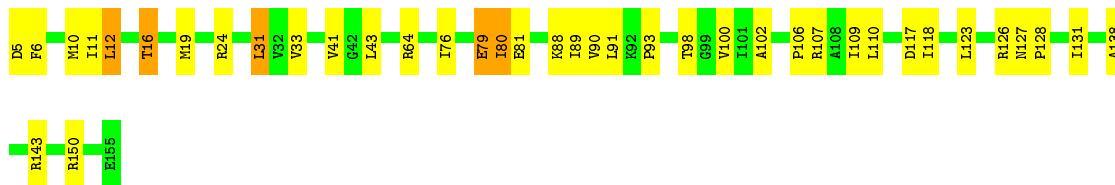
• Molecule 4: 30S ribosomal protein S4





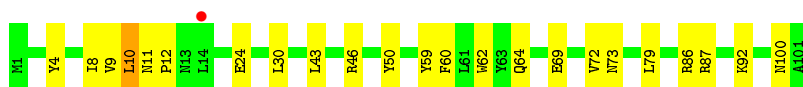
- Molecule 5: 30S ribosomal protein S5

Chain E: 74% 23%



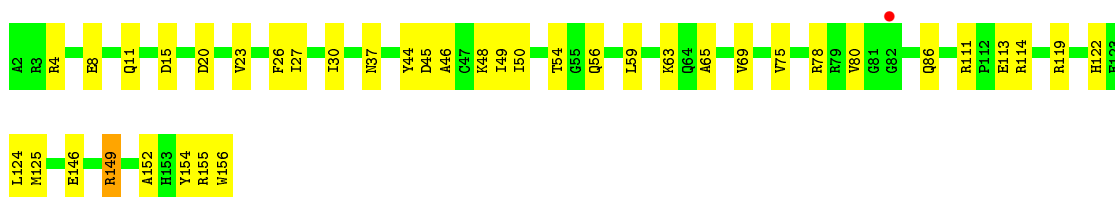
- Molecule 6: 30S ribosomal protein S6

Chain F: 77% 22%



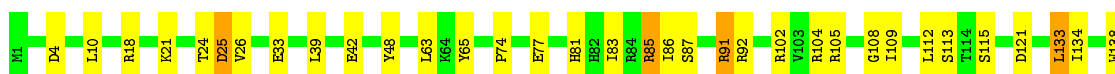
- Molecule 7: 30S ribosomal protein S7

Chain G: 75% 25%



- Molecule 8: 30S ribosomal protein S8

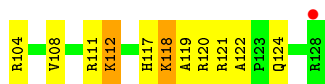
Chain H: 75% 22%



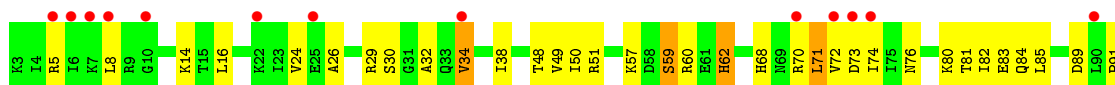
- Molecule 9: 30S ribosomal protein S9

Chain I: 65% 31% 3%

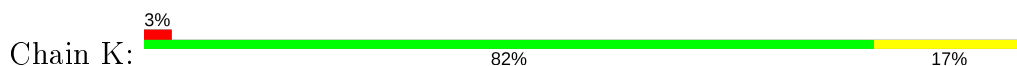




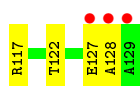
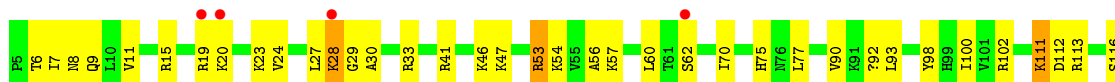
- Molecule 10: 30S ribosomal protein S10



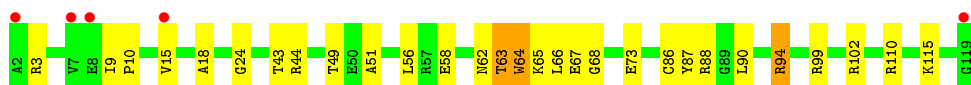
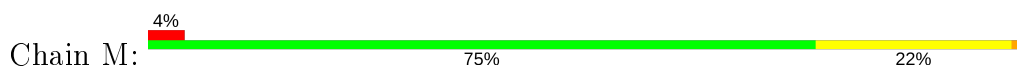
- Molecule 11: 30S ribosomal protein S11



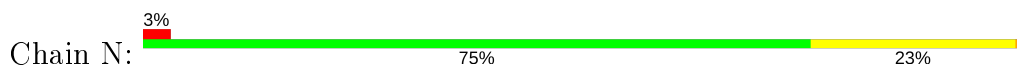
- Molecule 12: 30S ribosomal protein S12



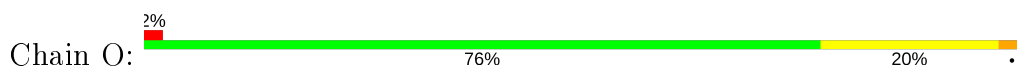
- Molecule 13: 30S ribosomal protein S13

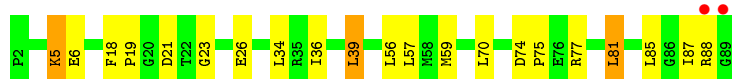


- Molecule 14: 30S ribosomal protein S14 type Z

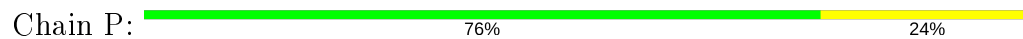


- Molecule 15: 30S ribosomal protein S15

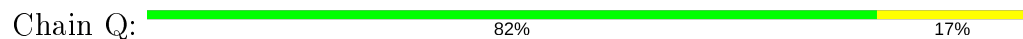




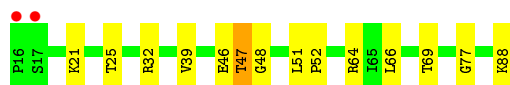
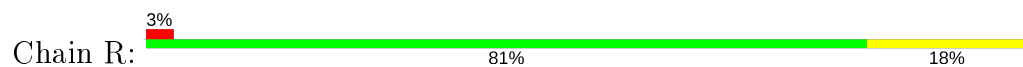
- Molecule 16: 30S ribosomal protein S16



- Molecule 17: 30S ribosomal protein S17



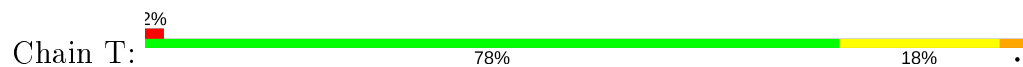
- Molecule 18: 30S ribosomal protein S18



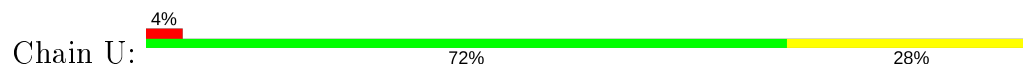
- Molecule 19: 30S ribosomal protein S19




- Molecule 20: 30S ribosomal protein S20



- Molecule 21: 30S ribosomal protein Thx



- Molecule 22: RNA (5'-D(*AP*AP*(MA6)P*UP*UP*U)-3')

Chain a:  83% 17%



- Molecule 23: RNA (5'-D(P*GP*AP*CP*UP*(70U)P*UP*UP*(12A)P*AP*(PSU)P*C)-3')

Chain b:  73% 27%



4 Data and refinement statistics

Property	Value	Source
Space group	P 41 21 2	Depositor
Cell constants a, b, c, α , β , γ	401.32Å 401.32Å 175.65Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.78 – 3.45 49.78 – 3.45	Depositor EDS
% Data completeness (in resolution range)	96.4 (49.78-3.45) 90.7 (49.78-3.45)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.58 (at 3.48Å)	Xtrriage
Refinement program	PHENIX (phenix.refine: dev_1938)	Depositor
R, R_{free}	0.194 , 0.227 0.194 , 0.227	Depositor DCC
R_{free} test set	9121 reflections (5.04%)	wwPDB-VP
Wilson B-factor (Å ²)	82.3	Xtrriage
Anisotropy	0.114	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 73.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	52822	wwPDB-VP
Average B, all atoms (Å ²)	91.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.89% 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: 12A, PAR, MA6, ZN, 70U, K, 0TD, MG, 6MZ, 2MG, 5MC, UR3, 4OC, M2G, 7MG, PSU

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	0.48	0/36037	0.83	13/56239 (0.0%)
2	B	0.25	0/1909	0.40	0/2579
3	C	0.28	0/1637	0.43	0/2207
4	D	0.31	0/1733	0.45	1/2318 (0.0%)
5	E	0.33	0/1163	0.50	0/1566
6	F	0.25	0/856	0.40	0/1154
7	G	0.27	0/1276	0.43	0/1709
8	H	0.36	0/1136	0.44	0/1527
9	I	0.27	0/1029	0.44	0/1379
10	J	0.27	0/806	0.48	0/1084
11	K	0.32	0/900	0.47	0/1213
12	L	0.33	0/978	0.50	0/1308
13	M	0.27	0/947	0.43	0/1270
14	N	0.31	0/501	0.41	0/664
15	O	0.26	0/745	0.41	0/992
16	P	0.34	0/717	0.46	0/965
17	Q	0.35	0/836	0.47	0/1117
18	R	0.28	0/604	0.41	0/801
19	S	0.25	0/662	0.49	0/892
20	T	0.29	0/765	0.50	0/1007
21	U	0.26	0/213	0.42	0/279
22	a	0.32	0/111	0.80	0/168
23	b	0.82	1/184 (0.5%)	0.78	0/277
All	All	0.42	1/55745 (0.0%)	0.73	14/82715 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	30	G	OP3-P	-10.52	1.48	1.61

The worst 5 of 14 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	254	G	O5'-P-OP1	-7.51	98.94	105.70
1	A	1301	U	P-O3'-C3'	6.86	127.94	119.70
1	A	60	A	P-O3'-C3'	6.17	127.11	119.70
1	A	1528	U	P-O3'-C3'	5.93	126.82	119.70
1	A	328	C	C2-N1-C1'	5.61	124.97	118.80

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	32504	0	16434	455	0
2	B	1874	0	1887	29	0
3	C	1613	0	1677	33	0
4	D	1703	0	1763	25	0
5	E	1147	0	1207	25	0
6	F	843	0	857	10	0
7	G	1257	0	1296	20	0
8	H	1116	0	1177	22	0
9	I	1010	0	1037	34	0
10	J	793	0	835	25	0
11	K	885	0	904	10	0
12	L	973	0	1058	31	0
13	M	937	0	995	15	0
14	N	492	0	529	13	0
15	O	734	0	771	11	0
16	P	701	0	720	12	0
17	Q	823	0	891	12	0
18	R	598	0	670	9	0
19	S	648	0	672	18	0
20	T	763	0	861	12	0
21	U	209	0	221	5	0
22	a	124	0	67	0	0
23	b	247	0	129	0	0
24	A	252	0	270	13	0
25	A	280	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	C	1	0	0	0	0
25	D	1	0	0	0	0
25	E	1	0	0	0	0
25	F	1	0	0	0	0
25	G	1	0	0	0	0
25	H	2	0	0	0	0
25	L	2	0	0	0	0
25	P	4	0	0	0	0
25	Q	2	0	0	0	0
25	S	3	0	0	0	0
25	T	1	0	0	0	0
25	a	1	0	0	0	0
25	b	1	0	0	0	0
26	A	44	0	0	0	0
26	E	1	0	0	0	0
26	G	1	0	0	0	0
27	D	1	0	0	0	0
27	N	1	0	0	0	0
28	A	212	0	0	3	0
28	D	2	0	0	1	0
28	E	5	0	0	0	0
28	K	1	0	0	0	0
28	L	4	0	0	0	0
28	O	1	0	0	0	0
28	T	1	0	0	0	0
28	a	1	0	0	0	0
All	All	52822	0	36928	740	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

The worst 5 of 740 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)
1:A:1028:C:H42	1:A:1033:G:H1	1.13	0.96
1:A:153:C:H42	1:A:168:G:H1	1.20	0.89
1:A:235:C:H5'	17:Q:70:ARG:HG2	1.53	0.88
1:A:48:C:OP1	24:A:1603:PAR:N12	2.07	0.87
1:A:664:G:H22	1:A:741:G:H1	1.22	0.86

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	234/236 (99%)	205 (88%)	28 (12%)	1 (0%)	34	70
3	C	205/207 (99%)	190 (93%)	15 (7%)	0	100	100
4	D	206/208 (99%)	200 (97%)	5 (2%)	1 (0%)	29	66
5	E	149/151 (99%)	145 (97%)	4 (3%)	0	100	100
6	F	99/101 (98%)	96 (97%)	3 (3%)	0	100	100
7	G	153/155 (99%)	144 (94%)	9 (6%)	0	100	100
8	H	136/138 (99%)	133 (98%)	3 (2%)	0	100	100
9	I	125/127 (98%)	114 (91%)	10 (8%)	1 (1%)	19	57
10	J	97/99 (98%)	78 (80%)	17 (18%)	2 (2%)	7	36
11	K	117/119 (98%)	105 (90%)	12 (10%)	0	100	100
12	L	122/125 (98%)	111 (91%)	10 (8%)	1 (1%)	19	57
13	M	116/118 (98%)	109 (94%)	7 (6%)	0	100	100
14	N	58/60 (97%)	54 (93%)	4 (7%)	0	100	100
15	O	86/88 (98%)	83 (96%)	3 (4%)	0	100	100
16	P	82/84 (98%)	78 (95%)	4 (5%)	0	100	100
17	Q	97/99 (98%)	94 (97%)	3 (3%)	0	100	100
18	R	71/73 (97%)	67 (94%)	4 (6%)	0	100	100
19	S	79/81 (98%)	71 (90%)	7 (9%)	1 (1%)	12	46
20	T	97/99 (98%)	85 (88%)	12 (12%)	0	100	100
21	U	23/25 (92%)	22 (96%)	1 (4%)	0	100	100
All	All	2352/2393 (98%)	2184 (93%)	161 (7%)	7 (0%)	41	75

5 of 7 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
12	L	28	LYS

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Mol	Chain	Res	Type
19	S	31	ILE
10	J	72	VAL
9	I	119	ALA
10	J	34	VAL

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	194/204 (95%)	180 (93%)	14 (7%)	14	46
3	C	160/161 (99%)	151 (94%)	9 (6%)	21	53
4	D	180/180 (100%)	171 (95%)	9 (5%)	24	57
5	E	115/116 (99%)	102 (89%)	13 (11%)	6	25
6	F	90/90 (100%)	83 (92%)	7 (8%)	12	42
7	G	126/126 (100%)	119 (94%)	7 (6%)	21	53
8	H	119/119 (100%)	110 (92%)	9 (8%)	13	43
9	I	98/98 (100%)	90 (92%)	8 (8%)	11	40
10	J	87/89 (98%)	81 (93%)	6 (7%)	15	47
11	K	90/90 (100%)	84 (93%)	6 (7%)	16	48
12	L	103/103 (100%)	97 (94%)	6 (6%)	20	52
13	M	94/94 (100%)	85 (90%)	9 (10%)	8	33
14	N	49/49 (100%)	47 (96%)	2 (4%)	30	62
15	O	79/79 (100%)	71 (90%)	8 (10%)	7	31
16	P	72/72 (100%)	68 (94%)	4 (6%)	21	53
17	Q	94/94 (100%)	88 (94%)	6 (6%)	17	50
18	R	64/64 (100%)	61 (95%)	3 (5%)	26	59
19	S	71/71 (100%)	62 (87%)	9 (13%)	4	20
20	T	76/76 (100%)	67 (88%)	9 (12%)	5	23
21	U	19/20 (95%)	18 (95%)	1 (5%)	22	55

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	1980/1995 (99%)	1835 (93%)	145 (7%)	14 45

5 of 145 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
8	H	102	ARG
10	J	83	GLU
19	S	81	ARG
8	H	133	LEU
9	I	112	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
3	C	6	HIS
4	D	119	GLN
9	I	73	GLN
13	M	106	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	1507/1522 (99%)	223 (14%)	42 (2%)
22	a	4/6 (66%)	1 (25%)	0
23	b	8/11 (72%)	2 (25%)	0
All	All	1519/1539 (98%)	226 (14%)	42 (2%)

5 of 226 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	7	G
1	A	9	G
1	A	32	A
1	A	39	G
1	A	47	C

5 of 42 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	701	C

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Mol	Chain	Res	Type
1	A	965	A
1	A	1347	G
1	A	748	C
1	A	913	A

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

19 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
23	PSU	b	39	23	17,21,22	1.34	3 (17%)	20,30,33	3.57	6 (30%)
1	5MC	A	1404	1	15,22,23	0.80	0	19,32,35	1.09	3 (15%)
1	5MC	A	967	1	15,22,23	0.89	0	19,32,35	1.02	1 (5%)
1	M2G	A	966	1	20,27,28	1.80	4 (20%)	22,40,43	2.52	5 (22%)
1	PSU	A	1541	1,25	17,21,22	1.32	3 (17%)	20,30,33	3.51	6 (30%)
1	2MG	A	1207	1	19,26,27	2.03	3 (15%)	21,38,41	2.00	3 (14%)
1	PSU	A	516	1,25	17,21,22	1.45	4 (23%)	20,30,33	3.63	5 (25%)
1	UR3	A	1498	1	14,22,23	0.72	0	15,32,35	1.16	1 (6%)
23	12A	b	37	25,23	26,36,37	2.95	4 (15%)	29,52,55	2.51	8 (27%)
1	7MG	A	527	1	22,26,27	2.08	5 (22%)	28,39,42	1.65	7 (25%)
1	4OC	A	1402	1	16,23,24	0.75	0	17,32,35	0.78	0
1	MA6	A	1518	1	19,26,27	0.77	0	18,38,41	0.85	1 (5%)
1	5MC	A	1407	1	15,22,23	0.86	0	19,32,35	1.22	4 (21%)
1	PSU	A	1540	1	17,21,22	1.32	3 (17%)	20,30,33	3.56	6 (30%)
12	0TD	L	92	12	4,9,10	0.96	0	3,11,13	2.02	2 (66%)
23	70U	b	34	23	19,26,27	2.78	7 (36%)	21,37,40	2.11	3 (14%)
1	MA6	A	1519	1,26	19,26,27	0.95	1 (5%)	18,38,41	0.70	0
22	6MZ	a	3	22	18,25,26	1.17	2 (11%)	16,36,39	0.62	0
1	5MC	A	1400	1	15,22,23	0.77	0	19,32,35	1.08	2 (10%)

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
23	PSU	b	39	23	-	0/7/25/26	0/2/2/2
1	5MC	A	1404	1	-	0/5/25/26	0/2/2/2
1	5MC	A	967	1	-	2/5/25/26	0/2/2/2
1	M2G	A	966	1	-	7/7/29/30	0/3/3/3
1	PSU	A	1541	1,25	-	1/7/25/26	0/2/2/2
1	2MG	A	1207	1	-	0/5/27/28	0/3/3/3
1	PSU	A	516	1,25	-	0/7/25/26	0/2/2/2
1	UR3	A	1498	1	-	0/5/25/26	0/2/2/2
23	12A	b	37	25,23	-	6/17/43/44	0/3/3/3
1	7MG	A	527	1	-	2/7/37/38	0/3/3/3
1	4OC	A	1402	1	-	2/9/29/30	0/2/2/2
1	MA6	A	1518	1	-	2/7/29/30	0/3/3/3
1	5MC	A	1407	1	-	0/5/25/26	0/2/2/2
1	PSU	A	1540	1	-	0/7/25/26	0/2/2/2
12	0TD	L	92	12	-	1/3/12/14	-
23	70U	b	34	23	-	5/11/31/32	0/2/2/2
1	MA6	A	1519	1,26	-	5/7/29/30	0/3/3/3
22	6MZ	a	3	22	-	0/5/27/28	0/3/3/3
1	5MC	A	1400	1	-	2/5/25/26	0/2/2/2

The worst 5 of 39 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	b	37	12A	C2-S2	10.79	1.84	1.75
23	b	34	70U	C2-S2	7.09	1.81	1.66
1	A	1207	2MG	C2-N2	6.41	1.39	1.34
23	b	37	12A	C6-N6	6.18	1.47	1.36
23	b	34	70U	O4-C4	6.17	1.40	1.24

The worst 5 of 63 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	516	PSU	N1-C2-N3	-11.31	119.44	128.43
23	b	39	PSU	N1-C2-N3	-10.77	119.87	128.43
1	A	1541	PSU	N1-C2-N3	-10.72	119.91	128.43
1	A	1540	PSU	N1-C2-N3	-10.69	119.93	128.43
23	b	37	12A	C2M-S2-C2	10.17	109.86	102.27

There are no chirality outliers.

5 of 35 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	967	5MC	O4'-C4'-C5'-O5'
1	A	966	M2G	C4'-C5'-O5'-P
23	b	37	12A	N1-C2-S2-C2M
23	b	37	12A	N3-C2-S2-C2M
23	b	37	12A	C-CA-CB-OG1

There are no ring outliers.

7 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	966	M2G	2	0
1	A	1207	2MG	2	0
1	A	1498	UR3	2	0
1	A	1402	4OC	1	0
12	L	92	0TD	5	0
1	A	1519	MA6	1	0
1	A	1400	5MC	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 355 ligands modelled in this entry, 349 are monoatomic - leaving 6 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
24	PAR	A	1603	-	45,45,45	1.42	6 (13%)	64,67,67	1.67	13 (20%)
24	PAR	A	1602	-	45,45,45	1.34	7 (15%)	64,67,67	1.66	12 (18%)
24	PAR	A	1605	-	45,45,45	1.30	6 (13%)	64,67,67	1.64	11 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	PAR	A	1601	-	45,45,45	1.25	5 (11%)	64,67,67	1.63	12 (18%)
24	PAR	A	1604	-	45,45,45	1.31	7 (15%)	64,67,67	1.64	13 (20%)
24	PAR	A	1606	-	45,45,45	1.33	5 (11%)	64,67,67	1.65	12 (18%)

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
24	PAR	A	1603	-	-	5/18/94/94	1/4/4/4
24	PAR	A	1602	-	-	4/18/94/94	0/4/4/4
24	PAR	A	1605	-	-	4/18/94/94	1/4/4/4
24	PAR	A	1601	-	-	7/18/94/94	0/4/4/4
24	PAR	A	1604	-	-	5/18/94/94	1/4/4/4
24	PAR	A	1606	-	-	5/18/94/94	1/4/4/4

The worst 5 of 36 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	A	1603	PAR	C13-C23	4.73	1.59	1.52
24	A	1601	PAR	C52-C42	3.87	1.60	1.52
24	A	1602	PAR	C13-C23	3.56	1.57	1.52
24	A	1606	PAR	C13-C23	3.54	1.57	1.52
24	A	1603	PAR	C52-C42	3.52	1.59	1.52

The worst 5 of 73 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	A	1603	PAR	O33-C14-C24	6.15	118.80	108.22
24	A	1606	PAR	O33-C14-C24	6.11	118.73	108.22
24	A	1604	PAR	O33-C14-C24	6.10	118.72	108.22
24	A	1602	PAR	O33-C14-C24	6.09	118.70	108.22
24	A	1605	PAR	O33-C14-C24	6.06	118.66	108.22

There are no chirality outliers.

5 of 30 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
24	A	1601	PAR	C43-C33-O33-C14
24	A	1603	PAR	C44-C54-C64-N64
24	A	1603	PAR	O54-C54-C64-N64
24	A	1604	PAR	C21-C11-O11-C42
24	A	1602	PAR	C23-C13-O52-C52

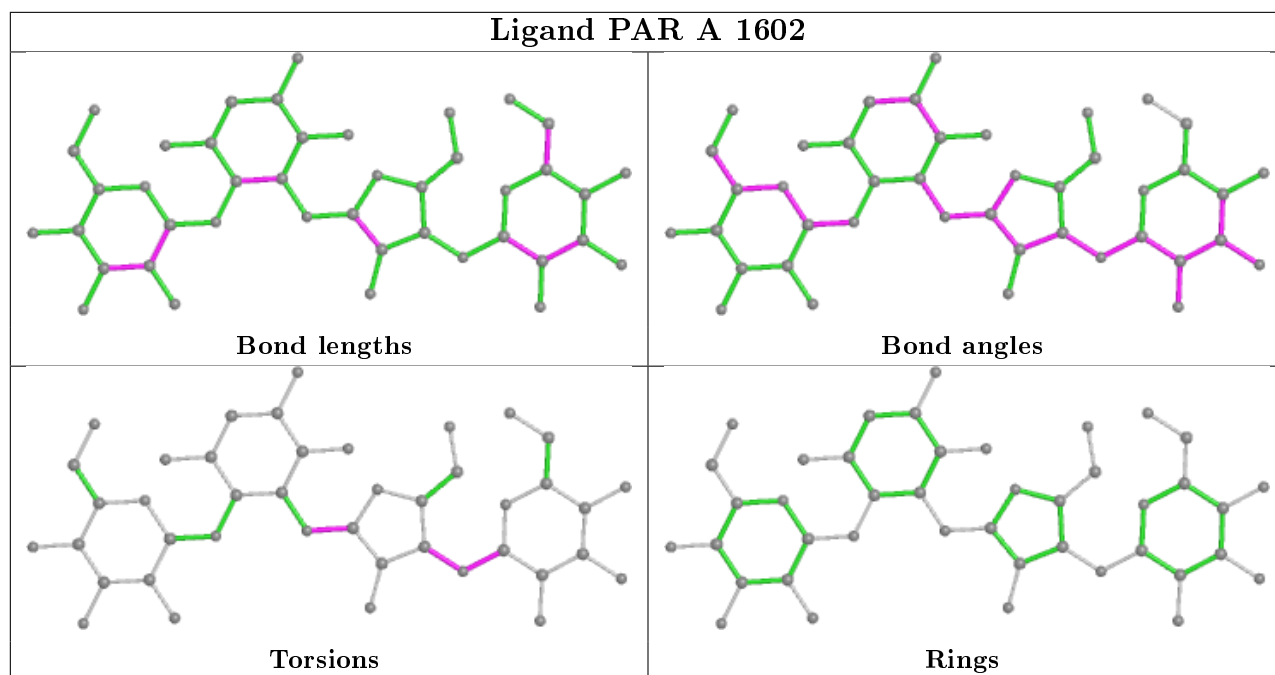
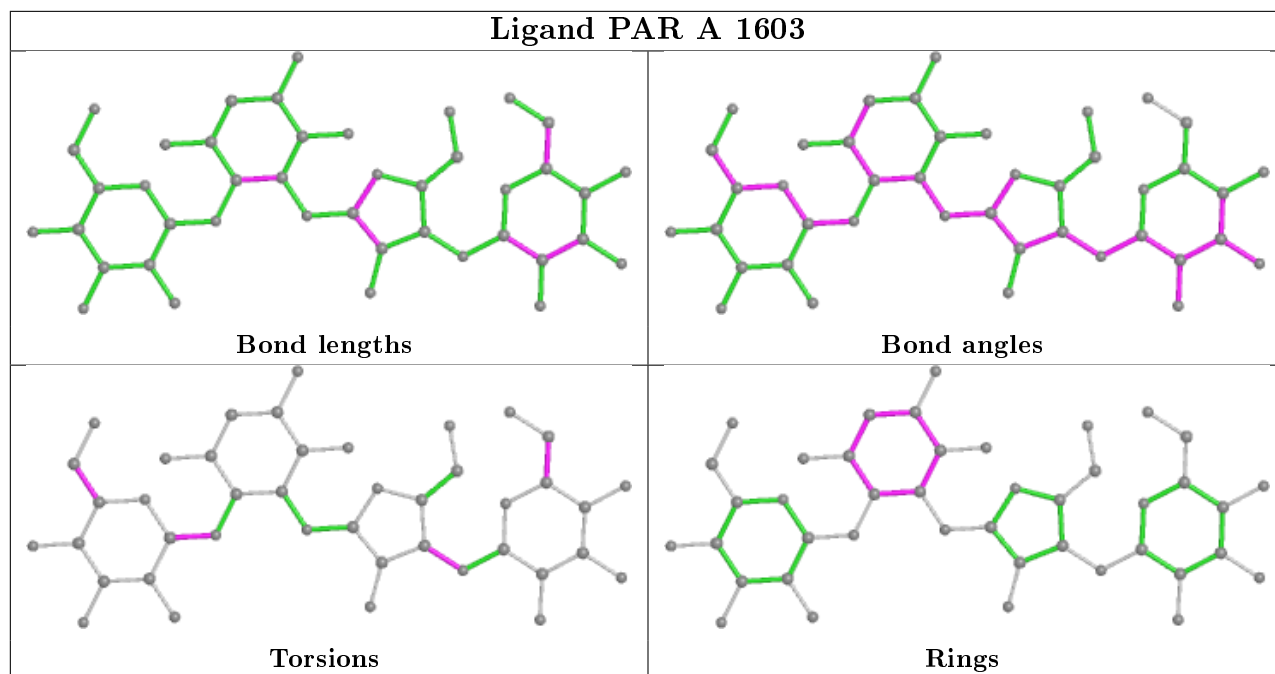
All (4) ring outliers are listed below:

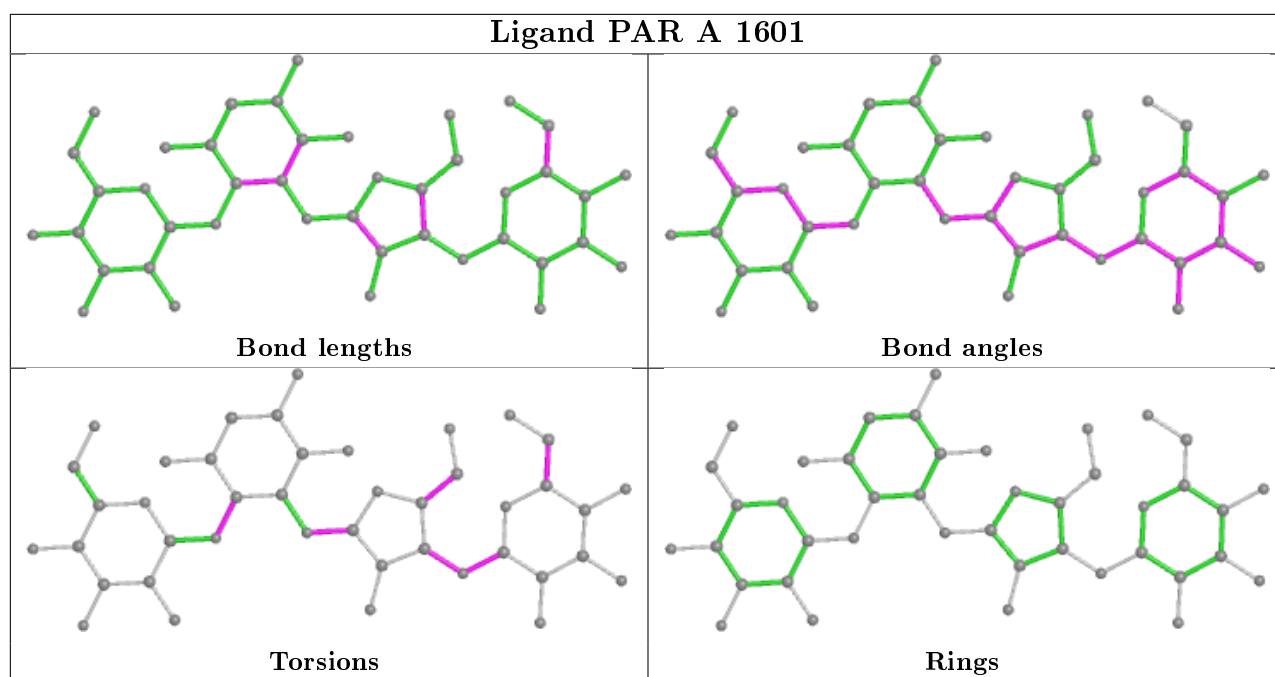
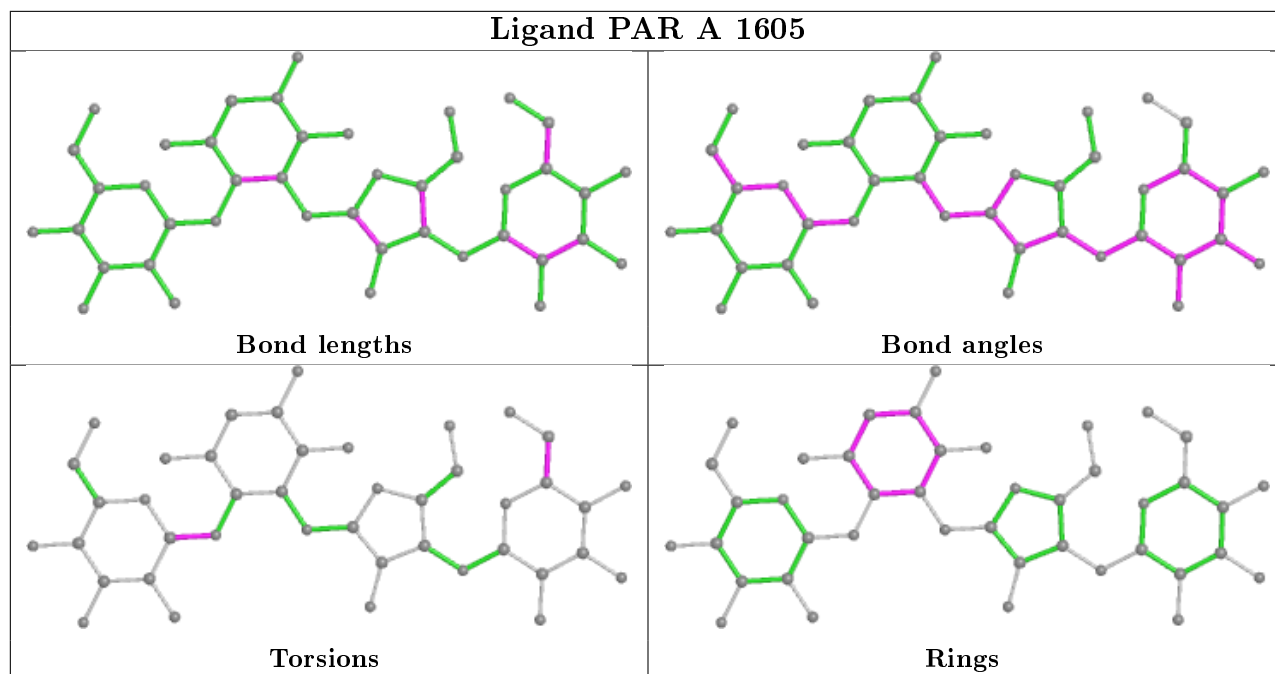
Mol	Chain	Res	Type	Atoms
24	A	1603	PAR	C12-C22-C32-C42-C52-C62
24	A	1605	PAR	C12-C22-C32-C42-C52-C62
24	A	1606	PAR	C12-C22-C32-C42-C52-C62
24	A	1604	PAR	C12-C22-C32-C42-C52-C62

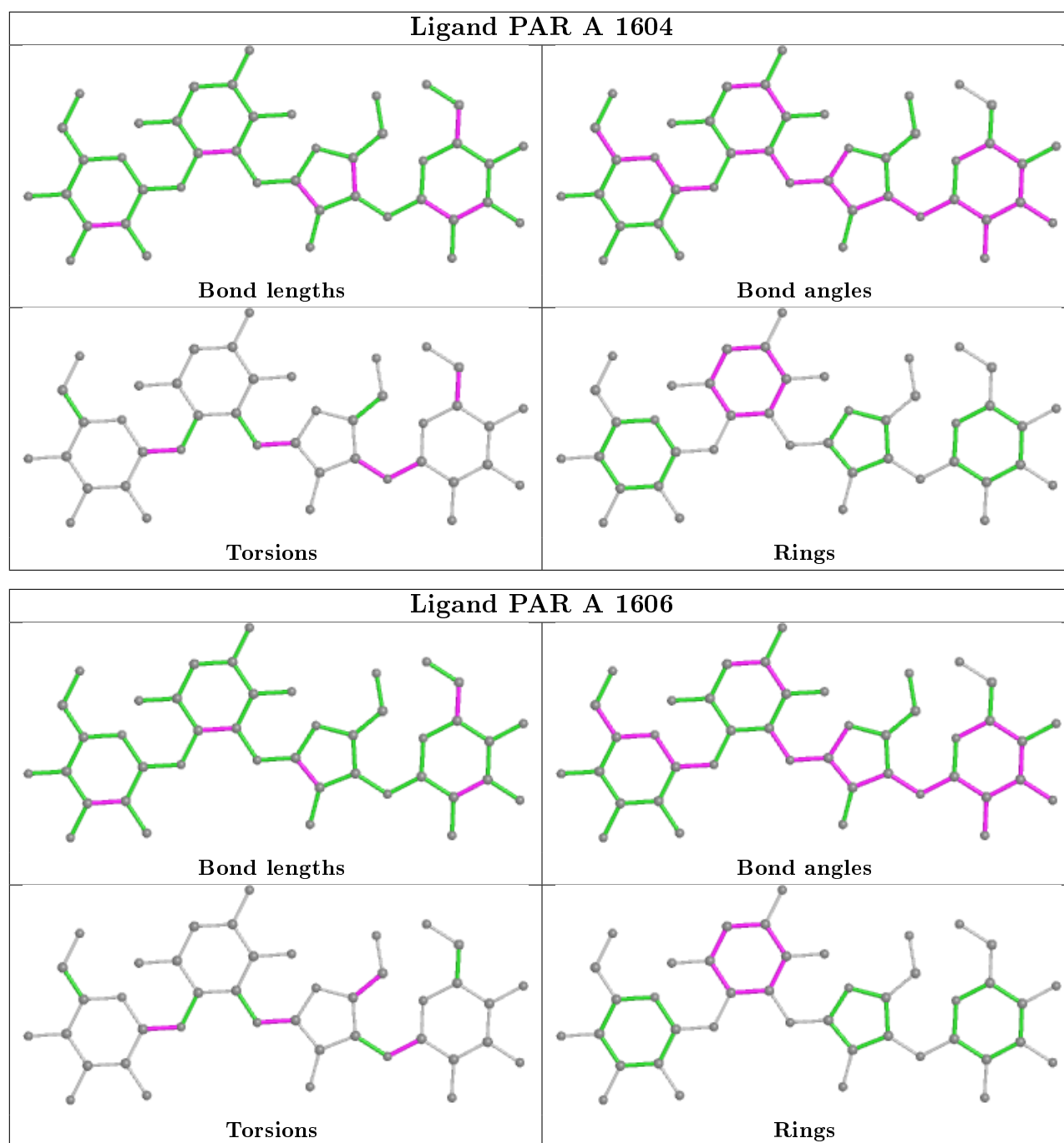
5 monomers are involved in 13 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
24	A	1603	PAR	5	0
24	A	1602	PAR	2	0
24	A	1605	PAR	1	0
24	A	1601	PAR	2	0
24	A	1604	PAR	3	0

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







5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

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

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

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å ²)	Q < 0.9
1	A	1498/1522 (98%)	-0.22	5 (0%) 94 92	48, 77, 149, 270	0
2	B	236/236 (100%)	0.18	7 (2%) 50 48	71, 114, 202, 338	0
3	C	207/207 (100%)	-0.09	1 (0%) 91 89	42, 110, 165, 224	0
4	D	208/208 (100%)	-0.12	2 (0%) 82 79	59, 83, 129, 173	0
5	E	151/151 (100%)	-0.06	0 100 100	48, 73, 104, 190	0
6	F	101/101 (100%)	-0.11	1 (0%) 82 79	73, 110, 149, 183	0
7	G	155/155 (100%)	-0.17	1 (0%) 89 87	60, 92, 158, 228	0
8	H	138/138 (100%)	-0.09	0 100 100	50, 70, 95, 132	0
9	I	127/127 (100%)	0.37	4 (3%) 49 48	78, 111, 157, 196	0
10	J	99/99 (100%)	0.79	13 (13%) 3 5	64, 140, 237, 311	0
11	K	119/119 (100%)	0.21	3 (2%) 57 55	57, 76, 120, 171	0
12	L	124/125 (99%)	0.22	7 (5%) 24 25	44, 77, 115, 245	0
13	M	118/118 (100%)	0.44	5 (4%) 36 35	65, 96, 137, 217	0
14	N	60/60 (100%)	0.19	2 (3%) 46 45	80, 96, 154, 229	0
15	O	88/88 (100%)	0.11	2 (2%) 60 58	62, 86, 127, 184	0
16	P	84/84 (100%)	0.31	0 100 100	56, 69, 102, 156	0
17	Q	99/99 (100%)	0.18	0 100 100	53, 71, 119, 156	0
18	R	73/73 (100%)	0.09	2 (2%) 54 52	55, 89, 147, 202	0
19	S	81/81 (100%)	0.20	2 (2%) 57 55	39, 112, 196, 229	0
20	T	99/99 (100%)	0.24	2 (2%) 65 63	60, 74, 129, 193	0
21	U	25/25 (100%)	0.57	1 (4%) 38 37	48, 95, 133, 172	0
22	a	5/6 (83%)	0.96	0 100 100	89, 95, 127, 140	0
23	b	8/11 (72%)	0.08	0 100 100	91, 127, 166, 178	0
All	All	3903/3932 (99%)	-0.01	60 (1%) 73 71	39, 87, 159, 338	0

The worst 5 of 60 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
11	K	129	SER	7.5
11	K	128	ALA	6.2
15	O	89	GLY	5.8
2	B	131	PRO	5.5
14	N	12	ARG	4.9

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(\AA^2)	Q<0.9
1	PSU	A	1540	20/21	0.84	0.30	165,171,179,181	0
12	0TD	L	92	10/11	0.88	0.35	70,79,96,100	0
23	PSU	b	39	20/21	0.91	0.16	114,128,144,147	0
1	PSU	A	1541	20/21	0.91	0.21	164,174,180,214	0
1	PSU	A	516	20/21	0.92	0.17	78,81,85,86	0
23	70U	b	34	25/26	0.92	0.21	84,105,118,130	0
22	6MZ	a	3	23/24	0.92	0.24	86,98,109,113	0
23	12A	b	37	34/35	0.94	0.20	82,96,119,122	0
1	7MG	A	527	24/25	0.94	0.19	63,66,67,67	0
1	M2G	A	966	25/26	0.94	0.20	67,68,87,95	0
1	MA6	A	1518	24/25	0.95	0.17	59,62,64,64	0
1	5MC	A	967	21/22	0.95	0.16	68,73,80,84	0
1	5MC	A	1407	21/22	0.95	0.17	68,69,71,72	0
1	2MG	A	1207	24/25	0.95	0.17	95,100,106,108	0
1	4OC	A	1402	22/23	0.95	0.19	62,65,68,71	0
1	5MC	A	1400	21/22	0.95	0.21	64,65,69,74	0
1	UR3	A	1498	21/22	0.96	0.20	57,59,62,63	0
1	5MC	A	1404	21/22	0.97	0.18	62,63,64,65	0
1	MA6	A	1519	24/25	0.97	0.21	58,60,62,62	0

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands i

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
25	MG	A	1796	1/1	0.31	0.38	71,71,71,71	0
26	K	A	1893	1/1	0.40	0.18	131,131,131,131	0
25	MG	H	202	1/1	0.42	0.36	84,84,84,84	0
25	MG	A	1820	1/1	0.42	0.84	74,74,74,74	0
25	MG	A	1775	1/1	0.43	0.65	99,99,99,99	0
25	MG	A	1748	1/1	0.44	0.66	85,85,85,85	0
25	MG	A	1667	1/1	0.54	0.50	52,52,52,52	0
25	MG	A	1772	1/1	0.55	0.57	62,62,62,62	0
26	K	A	1907	1/1	0.55	0.81	131,131,131,131	0
25	MG	A	1717	1/1	0.56	0.25	61,61,61,61	0
25	MG	A	1824	1/1	0.56	0.56	66,66,66,66	0
25	MG	C	301	1/1	0.56	0.40	82,82,82,82	0
25	MG	Q	202	1/1	0.56	0.61	67,67,67,67	0
25	MG	P	102	1/1	0.57	0.26	71,71,71,71	0
25	MG	A	1607	1/1	0.57	0.46	87,87,87,87	0
25	MG	H	201	1/1	0.58	0.44	61,61,61,61	0
26	K	A	1913	1/1	0.58	0.71	139,139,139,139	0
25	MG	A	1765	1/1	0.59	0.60	66,66,66,66	0
25	MG	A	1852	1/1	0.60	0.49	73,73,73,73	0
25	MG	L	201	1/1	0.60	0.49	64,64,64,64	0
25	MG	A	1753	1/1	0.60	0.50	84,84,84,84	0
25	MG	A	1868	1/1	0.61	0.32	71,71,71,71	0
25	MG	A	1855	1/1	0.61	0.54	77,77,77,77	0
25	MG	A	1819	1/1	0.62	0.49	74,74,74,74	0
25	MG	A	1866	1/1	0.62	0.48	46,46,46,46	0
26	K	A	1892	1/1	0.63	0.28	111,111,111,111	0
25	MG	A	1822	1/1	0.64	0.48	56,56,56,56	0
25	MG	A	1812	1/1	0.64	0.25	59,59,59,59	0
25	MG	A	1720	1/1	0.64	0.51	37,37,37,37	0
26	K	A	1912	1/1	0.65	0.41	116,116,116,116	0
25	MG	A	1827	1/1	0.65	0.31	65,65,65,65	0
25	MG	A	1797	1/1	0.65	0.66	69,69,69,69	0
26	K	A	1898	1/1	0.66	0.13	120,120,120,120	0
25	MG	A	1663	1/1	0.66	0.37	50,50,50,50	0
25	MG	A	1727	1/1	0.67	0.28	126,126,126,126	0
25	MG	A	1864	1/1	0.67	0.91	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
25	MG	A	1813	1/1	0.67	0.36	64,64,64,64	0
25	MG	A	1648	1/1	0.68	0.23	61,61,61,61	0
25	MG	G	201	1/1	0.69	0.54	52,52,52,52	0
26	K	A	1891	1/1	0.70	0.88	142,142,142,142	0
25	MG	A	1830	1/1	0.70	0.99	95,95,95,95	0
25	MG	A	1881	1/1	0.70	0.39	79,79,79,79	0
26	K	A	1905	1/1	0.70	0.56	117,117,117,117	0
25	MG	A	1782	1/1	0.70	0.42	63,63,63,63	0
26	K	A	1928	1/1	0.71	0.34	131,131,131,131	0
25	MG	A	1616	1/1	0.72	0.34	78,78,78,78	0
25	MG	A	1735	1/1	0.72	0.41	58,58,58,58	0
25	MG	A	1885	1/1	0.72	0.53	63,63,63,63	0
25	MG	A	1770	1/1	0.72	0.45	71,71,71,71	0
26	K	A	1919	1/1	0.73	0.21	102,102,102,102	0
26	K	A	1889	1/1	0.73	0.36	124,124,124,124	0
26	K	A	1923	1/1	0.73	0.26	113,113,113,113	0
25	MG	A	1844	1/1	0.73	0.26	65,65,65,65	0
25	MG	A	1843	1/1	0.74	0.18	70,70,70,70	0
25	MG	A	1865	1/1	0.74	0.17	67,67,67,67	0
25	MG	A	1876	1/1	0.74	0.25	80,80,80,80	0
26	K	A	1888	1/1	0.75	0.55	113,113,113,113	0
26	K	A	1902	1/1	0.75	0.35	129,129,129,129	0
25	MG	A	1709	1/1	0.75	0.49	162,162,162,162	0
25	MG	A	1848	1/1	0.75	0.48	61,61,61,61	0
24	PAR	A	1602	42/42	0.76	0.45	120,192,236,255	0
26	K	A	1904	1/1	0.76	0.58	138,138,138,138	0
25	MG	A	1808	1/1	0.76	0.45	52,52,52,52	0
25	MG	A	1794	1/1	0.76	0.23	131,131,131,131	0
25	MG	A	1847	1/1	0.77	0.61	51,51,51,51	0
25	MG	A	1755	1/1	0.77	0.21	40,40,40,40	0
26	K	A	1903	1/1	0.77	0.39	118,118,118,118	0
25	MG	A	1778	1/1	0.77	0.29	82,82,82,82	0
25	MG	A	1860	1/1	0.77	0.23	56,56,56,56	0
25	MG	A	1732	1/1	0.77	0.27	66,66,66,66	0
25	MG	A	1762	1/1	0.77	0.34	67,67,67,67	0
25	MG	A	1639	1/1	0.78	0.70	52,52,52,52	0
25	MG	A	1836	1/1	0.78	0.37	55,55,55,55	0
25	MG	Q	201	1/1	0.79	0.12	92,92,92,92	0
25	MG	A	1771	1/1	0.79	0.30	68,68,68,68	0
26	K	A	1926	1/1	0.79	0.32	119,119,119,119	0
25	MG	A	1788	1/1	0.79	0.41	68,68,68,68	0
25	MG	A	1672	1/1	0.79	0.25	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
25	MG	A	1763	1/1	0.79	0.33	74,74,74,74	0
25	MG	A	1790	1/1	0.79	0.26	120,120,120,120	0
25	MG	A	1629	1/1	0.79	0.39	63,63,63,63	0
25	MG	A	1728	1/1	0.79	0.19	41,41,41,41	0
25	MG	A	1857	1/1	0.80	0.20	45,45,45,45	0
25	MG	A	1724	1/1	0.80	0.38	60,60,60,60	0
25	MG	A	1686	1/1	0.80	0.40	33,33,33,33	0
25	MG	A	1773	1/1	0.80	0.30	30,30,30,30	0
25	MG	A	1871	1/1	0.80	0.14	58,58,58,58	0
26	K	A	1894	1/1	0.80	0.41	100,100,100,100	0
26	K	A	1896	1/1	0.80	0.15	132,132,132,132	0
26	K	A	1915	1/1	0.80	0.31	146,146,146,146	0
26	K	G	202	1/1	0.80	0.81	143,143,143,143	0
25	MG	A	1795	1/1	0.80	0.37	75,75,75,75	0
25	MG	A	1837	1/1	0.80	0.40	70,70,70,70	0
25	MG	A	1878	1/1	0.80	0.57	56,56,56,56	0
25	MG	A	1682	1/1	0.81	0.30	66,66,66,66	0
26	K	A	1927	1/1	0.81	0.37	115,115,115,115	0
26	K	A	1897	1/1	0.81	0.52	98,98,98,98	0
24	PAR	A	1603	42/42	0.81	0.38	92,128,169,179	0
26	K	A	1886	1/1	0.81	0.21	107,107,107,107	0
25	MG	A	1817	1/1	0.81	0.23	52,52,52,52	0
25	MG	A	1673	1/1	0.81	0.37	56,56,56,56	0
24	PAR	A	1605	42/42	0.81	0.35	149,168,179,187	0
25	MG	A	1623	1/1	0.81	0.28	46,46,46,46	0
25	MG	A	1816	1/1	0.81	0.47	50,50,50,50	0
26	K	A	1895	1/1	0.82	0.21	81,81,81,81	0
25	MG	A	1745	1/1	0.82	0.27	62,62,62,62	0
26	K	A	1925	1/1	0.82	0.21	92,92,92,92	0
25	MG	A	1633	1/1	0.82	0.54	50,50,50,50	0
26	K	A	1906	1/1	0.82	0.31	92,92,92,92	0
25	MG	A	1825	1/1	0.82	0.60	78,78,78,78	0
25	MG	A	1884	1/1	0.82	0.26	59,59,59,59	0
25	MG	A	1783	1/1	0.82	0.28	54,54,54,54	0
25	MG	A	1751	1/1	0.82	0.13	54,54,54,54	0
25	MG	P	101	1/1	0.83	0.36	38,38,38,38	0
26	K	A	1922	1/1	0.83	0.32	99,99,99,99	0
25	MG	A	1725	1/1	0.83	0.33	64,64,64,64	0
25	MG	A	1832	1/1	0.83	0.24	57,57,57,57	0
26	K	A	1900	1/1	0.83	0.24	113,113,113,113	0
25	MG	A	1736	1/1	0.83	0.45	55,55,55,55	0
25	MG	A	1870	1/1	0.83	0.60	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
26	K	A	1910	1/1	0.83	0.35	126,126,126,126	0
25	MG	A	1873	1/1	0.83	0.24	66,66,66,66	0
25	MG	A	1877	1/1	0.83	0.35	69,69,69,69	0
25	MG	A	1692	1/1	0.84	0.14	89,89,89,89	0
25	MG	A	1766	1/1	0.84	0.89	56,56,56,56	0
25	MG	A	1883	1/1	0.84	0.36	59,59,59,59	0
26	K	A	1929	1/1	0.84	1.43	127,127,127,127	0
25	MG	A	1679	1/1	0.84	0.37	78,78,78,78	0
25	MG	A	1804	1/1	0.84	0.27	61,61,61,61	0
25	MG	A	1746	1/1	0.84	0.17	55,55,55,55	0
25	MG	A	1801	1/1	0.84	0.27	70,70,70,70	0
25	MG	A	1609	1/1	0.85	0.18	96,96,96,96	0
25	MG	A	1730	1/1	0.85	0.21	59,59,59,59	0
25	MG	A	1802	1/1	0.85	0.38	63,63,63,63	0
25	MG	A	1798	1/1	0.85	0.34	46,46,46,46	0
25	MG	A	1841	1/1	0.85	0.26	103,103,103,103	0
25	MG	A	1823	1/1	0.85	0.31	63,63,63,63	0
26	K	A	1887	1/1	0.85	0.29	104,104,104,104	0
25	MG	A	1742	1/1	0.85	0.35	63,63,63,63	0
25	MG	A	1863	1/1	0.85	0.37	60,60,60,60	0
25	MG	A	1774	1/1	0.85	0.31	59,59,59,59	0
25	MG	A	1635	1/1	0.85	0.32	46,46,46,46	0
25	MG	A	1688	1/1	0.85	0.11	68,68,68,68	0
25	MG	A	1759	1/1	0.85	0.23	47,47,47,47	0
25	MG	A	1625	1/1	0.86	0.28	61,61,61,61	0
25	MG	A	1677	1/1	0.86	0.21	86,86,86,86	0
25	MG	A	1831	1/1	0.86	0.28	58,58,58,58	0
25	MG	A	1704	1/1	0.86	0.24	51,51,51,51	0
25	MG	A	1767	1/1	0.86	0.26	55,55,55,55	0
26	K	A	1899	1/1	0.86	0.19	117,117,117,117	0
25	MG	A	1650	1/1	0.86	0.25	41,41,41,41	0
25	MG	A	1879	1/1	0.86	0.33	51,51,51,51	0
25	MG	A	1867	1/1	0.87	0.67	43,43,43,43	0
25	MG	A	1803	1/1	0.87	0.55	38,38,38,38	0
25	MG	A	1645	1/1	0.87	0.17	128,128,128,128	0
25	MG	A	1882	1/1	0.87	0.35	67,67,67,67	0
25	MG	A	1793	1/1	0.87	0.22	181,181,181,181	0
25	MG	A	1784	1/1	0.87	0.17	35,35,35,35	0
25	MG	A	1777	1/1	0.87	0.37	72,72,72,72	0
25	MG	A	1839	1/1	0.87	0.19	51,51,51,51	0
25	MG	A	1833	1/1	0.87	0.25	45,45,45,45	0
25	MG	A	1731	1/1	0.87	0.62	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
24	PAR	A	1604	42/42	0.88	0.25	83,126,184,192	0
25	MG	A	1743	1/1	0.88	0.22	81,81,81,81	0
25	MG	A	1791	1/1	0.88	0.11	104,104,104,104	0
25	MG	D	302	1/1	0.88	0.13	72,72,72,72	0
25	MG	A	1785	1/1	0.88	0.33	85,85,85,85	0
25	MG	A	1691	1/1	0.88	0.23	50,50,50,50	0
25	MG	A	1818	1/1	0.88	0.23	72,72,72,72	0
25	MG	A	1733	1/1	0.88	0.48	53,53,53,53	0
25	MG	A	1726	1/1	0.88	0.67	58,58,58,58	0
26	K	A	1918	1/1	0.88	0.38	127,127,127,127	0
25	MG	a	101	1/1	0.88	0.56	50,50,50,50	0
25	MG	A	1875	1/1	0.88	0.33	65,65,65,65	0
25	MG	A	1641	1/1	0.88	0.16	66,66,66,66	0
25	MG	A	1787	1/1	0.88	0.41	43,43,43,43	0
25	MG	A	1815	1/1	0.88	0.17	29,29,29,29	0
25	MG	A	1826	1/1	0.88	0.21	40,40,40,40	0
25	MG	A	1738	1/1	0.88	0.25	52,52,52,52	0
25	MG	A	1842	1/1	0.88	0.22	57,57,57,57	0
25	MG	A	1834	1/1	0.88	0.17	44,44,44,44	0
25	MG	A	1744	1/1	0.89	0.21	51,51,51,51	0
25	MG	S	102	1/1	0.89	0.11	43,43,43,43	0
25	MG	A	1710	1/1	0.89	0.21	64,64,64,64	0
25	MG	A	1758	1/1	0.89	0.24	59,59,59,59	0
25	MG	A	1729	1/1	0.89	0.25	51,51,51,51	0
25	MG	A	1851	1/1	0.89	0.16	60,60,60,60	0
25	MG	A	1754	1/1	0.89	0.27	52,52,52,52	0
25	MG	A	1621	1/1	0.89	0.14	50,50,50,50	0
25	MG	A	1681	1/1	0.89	0.40	198,198,198,198	0
25	MG	S	103	1/1	0.89	0.11	71,71,71,71	0
25	MG	A	1874	1/1	0.89	0.21	58,58,58,58	0
25	MG	A	1846	1/1	0.89	0.23	41,41,41,41	0
25	MG	A	1689	1/1	0.89	0.23	135,135,135,135	0
25	MG	P	103	1/1	0.90	0.37	65,65,65,65	0
25	MG	A	1671	1/1	0.90	0.28	30,30,30,30	0
25	MG	A	1680	1/1	0.90	0.25	55,55,55,55	0
25	MG	A	1644	1/1	0.90	0.15	60,60,60,60	0
26	K	A	1911	1/1	0.90	0.16	70,70,70,70	0
25	MG	A	1835	1/1	0.90	0.28	55,55,55,55	0
25	MG	A	1701	1/1	0.90	0.32	53,53,53,53	0
24	PAR	A	1606	42/42	0.90	0.24	100,122,134,139	0
25	MG	A	1640	1/1	0.90	0.27	128,128,128,128	0
25	MG	A	1849	1/1	0.90	0.16	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
25	MG	A	1806	1/1	0.90	0.15	56,56,56,56	0
26	K	E	202	1/1	0.90	0.28	80,80,80,80	0
25	MG	A	1670	1/1	0.90	0.30	55,55,55,55	0
25	MG	A	1853	1/1	0.90	0.21	49,49,49,49	0
25	MG	E	201	1/1	0.90	0.14	80,80,80,80	0
25	MG	A	1760	1/1	0.91	0.14	35,35,35,35	0
25	MG	A	1723	1/1	0.91	0.41	31,31,31,31	0
25	MG	A	1757	1/1	0.91	0.20	34,34,34,34	0
25	MG	A	1828	1/1	0.91	0.59	72,72,72,72	0
25	MG	A	1845	1/1	0.91	0.16	32,32,32,32	0
25	MG	A	1789	1/1	0.91	0.13	60,60,60,60	0
26	K	A	1917	1/1	0.91	0.38	122,122,122,122	0
25	MG	A	1613	1/1	0.91	0.20	49,49,49,49	0
25	MG	A	1861	1/1	0.91	0.38	73,73,73,73	0
25	MG	A	1781	1/1	0.91	0.25	58,58,58,58	0
26	K	A	1901	1/1	0.91	0.24	112,112,112,112	0
25	MG	A	1700	1/1	0.91	0.34	35,35,35,35	0
25	MG	A	1821	1/1	0.91	0.27	32,32,32,32	0
25	MG	A	1840	1/1	0.91	0.25	76,76,76,76	0
25	MG	A	1658	1/1	0.91	0.21	40,40,40,40	0
25	MG	A	1697	1/1	0.91	0.33	51,51,51,51	0
25	MG	A	1862	1/1	0.91	0.24	53,53,53,53	0
25	MG	A	1695	1/1	0.91	0.23	51,51,51,51	0
25	MG	A	1741	1/1	0.91	0.26	49,49,49,49	0
25	MG	A	1858	1/1	0.92	0.20	64,64,64,64	0
25	MG	A	1638	1/1	0.92	0.06	46,46,46,46	0
25	MG	b	101	1/1	0.92	0.13	46,46,46,46	0
25	MG	A	1652	1/1	0.92	0.22	56,56,56,56	0
25	MG	A	1869	1/1	0.92	0.26	58,58,58,58	0
25	MG	A	1687	1/1	0.92	0.21	53,53,53,53	0
24	PAR	A	1601	42/42	0.92	0.24	50,61,121,159	0
26	K	A	1920	1/1	0.92	0.14	100,100,100,100	0
26	K	A	1909	1/1	0.92	0.36	102,102,102,102	0
25	MG	A	1761	1/1	0.92	0.23	54,54,54,54	0
25	MG	A	1611	1/1	0.92	0.18	37,37,37,37	0
25	MG	A	1637	1/1	0.92	0.41	52,52,52,52	0
25	MG	A	1838	1/1	0.92	0.23	59,59,59,59	0
25	MG	A	1737	1/1	0.92	0.15	62,62,62,62	0
25	MG	A	1715	1/1	0.92	0.55	102,102,102,102	0
25	MG	A	1651	1/1	0.92	0.11	32,32,32,32	0
25	MG	A	1811	1/1	0.92	0.19	41,41,41,41	0
25	MG	A	1792	1/1	0.92	0.11	173,173,173,173	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
25	MG	A	1684	1/1	0.92	0.17	73,73,73,73	0
25	MG	A	1810	1/1	0.92	0.08	195,195,195,195	0
25	MG	A	1814	1/1	0.92	0.25	56,56,56,56	0
25	MG	A	1636	1/1	0.93	0.20	44,44,44,44	0
25	MG	A	1685	1/1	0.93	0.54	80,80,80,80	0
25	MG	A	1764	1/1	0.93	0.15	53,53,53,53	0
25	MG	A	1714	1/1	0.93	0.12	159,159,159,159	0
26	K	A	1908	1/1	0.93	0.12	77,77,77,77	0
25	MG	A	1631	1/1	0.93	0.19	75,75,75,75	0
25	MG	A	1707	1/1	0.93	0.14	106,106,106,106	0
25	MG	A	1800	1/1	0.93	0.13	68,68,68,68	0
26	K	A	1924	1/1	0.93	0.17	113,113,113,113	0
25	MG	A	1614	1/1	0.93	0.06	72,72,72,72	0
25	MG	A	1653	1/1	0.93	0.19	105,105,105,105	0
25	MG	A	1872	1/1	0.93	0.20	49,49,49,49	0
25	MG	A	1718	1/1	0.93	0.26	32,32,32,32	0
25	MG	A	1696	1/1	0.93	0.19	269,269,269,269	0
25	MG	A	1661	1/1	0.93	0.18	57,57,57,57	0
25	MG	A	1780	1/1	0.93	0.16	42,42,42,42	0
25	MG	A	1829	1/1	0.93	0.25	62,62,62,62	0
25	MG	A	1659	1/1	0.93	0.20	92,92,92,92	0
25	MG	A	1756	1/1	0.93	0.21	61,61,61,61	0
25	MG	A	1854	1/1	0.93	0.22	48,48,48,48	0
25	MG	A	1706	1/1	0.93	0.20	54,54,54,54	0
25	MG	A	1708	1/1	0.93	0.12	39,39,39,39	0
25	MG	L	202	1/1	0.93	0.09	54,54,54,54	0
25	MG	A	1664	1/1	0.93	0.14	68,68,68,68	0
25	MG	A	1702	1/1	0.93	0.08	113,113,113,113	0
25	MG	A	1752	1/1	0.93	0.10	38,38,38,38	0
25	MG	A	1722	1/1	0.94	0.24	31,31,31,31	0
25	MG	A	1750	1/1	0.94	0.21	54,54,54,54	0
25	MG	A	1610	1/1	0.94	0.09	101,101,101,101	0
25	MG	A	1716	1/1	0.94	0.42	79,79,79,79	0
25	MG	A	1694	1/1	0.94	0.18	122,122,122,122	0
25	MG	A	1647	1/1	0.94	0.20	78,78,78,78	0
25	MG	A	1850	1/1	0.94	0.21	30,30,30,30	0
25	MG	A	1666	1/1	0.94	0.19	75,75,75,75	0
26	K	A	1916	1/1	0.94	0.27	108,108,108,108	0
25	MG	A	1619	1/1	0.94	0.10	69,69,69,69	0
25	MG	A	1668	1/1	0.94	0.38	30,30,30,30	0
26	K	A	1890	1/1	0.94	0.22	89,89,89,89	0
25	MG	A	1665	1/1	0.94	0.24	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
25	MG	A	1776	1/1	0.94	0.16	47,47,47,47	0
25	MG	A	1734	1/1	0.94	0.25	45,45,45,45	0
25	MG	P	104	1/1	0.94	0.57	72,72,72,72	0
25	MG	A	1712	1/1	0.95	0.13	20,20,20,20	0
25	MG	A	1711	1/1	0.95	0.18	61,61,61,61	0
25	MG	A	1721	1/1	0.95	0.40	204,204,204,204	0
26	K	A	1914	1/1	0.95	0.11	124,124,124,124	0
25	MG	A	1674	1/1	0.95	0.14	65,65,65,65	0
25	MG	A	1634	1/1	0.95	0.12	103,103,103,103	0
25	MG	A	1646	1/1	0.95	0.18	38,38,38,38	0
27	ZN	N	101	1/1	0.95	0.11	77,77,77,77	0
25	MG	A	1930	1/1	0.95	0.07	57,57,57,57	0
25	MG	S	101	1/1	0.95	0.22	30,30,30,30	0
25	MG	A	1675	1/1	0.95	0.16	80,80,80,80	0
25	MG	A	1678	1/1	0.95	0.17	69,69,69,69	0
25	MG	A	1676	1/1	0.95	0.17	49,49,49,49	0
25	MG	A	1749	1/1	0.95	0.12	34,34,34,34	0
25	MG	A	1693	1/1	0.95	0.19	67,67,67,67	0
25	MG	A	1649	1/1	0.95	0.10	35,35,35,35	0
25	MG	A	1786	1/1	0.95	0.15	49,49,49,49	0
25	MG	A	1713	1/1	0.96	0.18	242,242,242,242	0
25	MG	A	1719	1/1	0.96	0.06	43,43,43,43	0
25	MG	A	1739	1/1	0.96	0.12	14,14,14,14	0
25	MG	A	1632	1/1	0.96	0.39	26,26,26,26	0
25	MG	A	1880	1/1	0.96	0.22	48,48,48,48	0
25	MG	A	1642	1/1	0.96	0.14	75,75,75,75	0
25	MG	T	201	1/1	0.96	0.12	38,38,38,38	0
25	MG	A	1809	1/1	0.96	0.10	160,160,160,160	0
25	MG	A	1690	1/1	0.96	0.12	84,84,84,84	0
25	MG	A	1859	1/1	0.96	0.18	61,61,61,61	0
25	MG	A	1655	1/1	0.96	0.23	52,52,52,52	0
25	MG	A	1779	1/1	0.96	0.38	26,26,26,26	0
25	MG	A	1805	1/1	0.96	0.11	39,39,39,39	0
25	MG	A	1669	1/1	0.96	0.18	42,42,42,42	0
25	MG	A	1856	1/1	0.96	0.41	53,53,53,53	0
25	MG	A	1769	1/1	0.96	0.13	70,70,70,70	0
25	MG	A	1626	1/1	0.97	0.14	47,47,47,47	0
25	MG	A	1740	1/1	0.97	0.14	70,70,70,70	0
25	MG	A	1698	1/1	0.97	0.14	48,48,48,48	0
25	MG	A	1768	1/1	0.97	0.17	46,46,46,46	0
25	MG	A	1657	1/1	0.97	0.12	18,18,18,18	0
25	MG	A	1662	1/1	0.97	0.24	115,115,115,115	0

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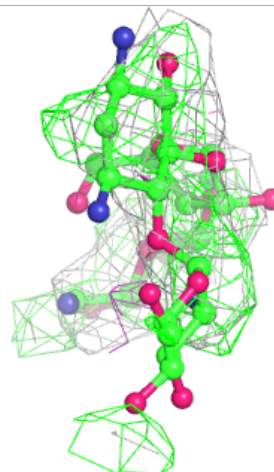
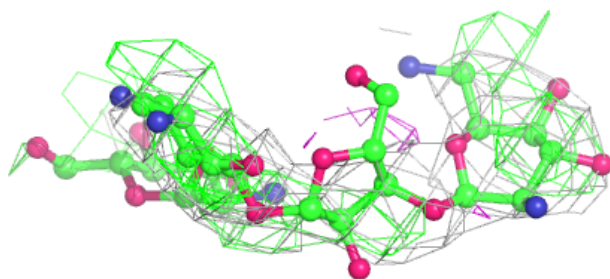
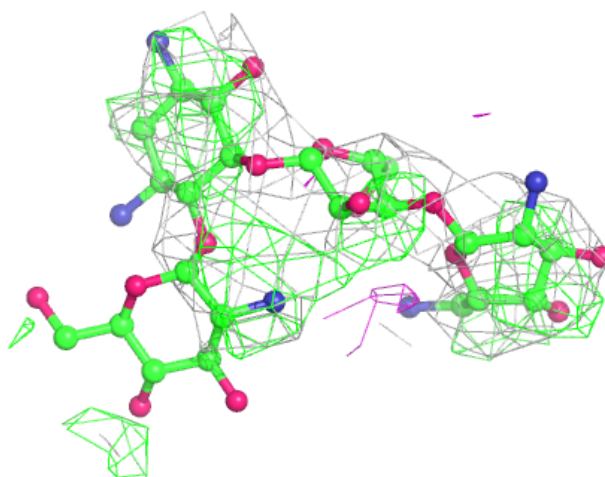
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
25	MG	A	1618	1/1	0.97	0.17	97,97,97,97	0
25	MG	A	1624	1/1	0.97	0.12	51,51,51,51	0
25	MG	A	1617	1/1	0.97	0.19	23,23,23,23	0
25	MG	A	1627	1/1	0.97	0.12	48,48,48,48	0
25	MG	A	1705	1/1	0.97	0.13	83,83,83,83	0
25	MG	A	1612	1/1	0.97	0.08	56,56,56,56	0
26	K	A	1921	1/1	0.97	0.29	125,125,125,125	0
25	MG	A	1622	1/1	0.97	0.11	29,29,29,29	0
25	MG	A	1747	1/1	0.98	0.08	59,59,59,59	0
25	MG	A	1799	1/1	0.98	0.11	73,73,73,73	0
25	MG	A	1703	1/1	0.98	0.12	65,65,65,65	0
25	MG	A	1630	1/1	0.98	0.28	10,10,10,10	0
25	MG	F	201	1/1	0.98	0.08	52,52,52,52	0
25	MG	A	1615	1/1	0.98	0.09	34,34,34,34	0
25	MG	A	1643	1/1	0.98	0.49	92,92,92,92	0
25	MG	A	1660	1/1	0.98	0.11	18,18,18,18	0
25	MG	A	1807	1/1	0.98	0.15	42,42,42,42	0
25	MG	A	1608	1/1	0.98	0.15	67,67,67,67	0
25	MG	A	1656	1/1	0.98	0.08	85,85,85,85	0
25	MG	A	1628	1/1	0.98	0.19	42,42,42,42	0
27	ZN	D	301	1/1	0.98	0.26	46,46,46,46	0
25	MG	A	1683	1/1	0.98	0.09	68,68,68,68	0
25	MG	A	1699	1/1	0.99	0.26	21,21,21,21	0
25	MG	A	1654	1/1	0.99	0.11	57,57,57,57	0
25	MG	A	1620	1/1	0.99	0.08	66,66,66,66	0

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

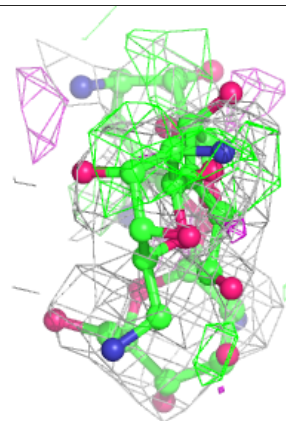
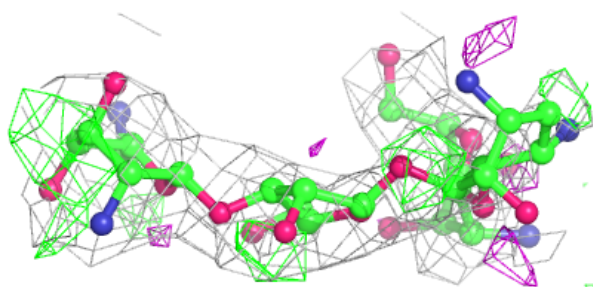
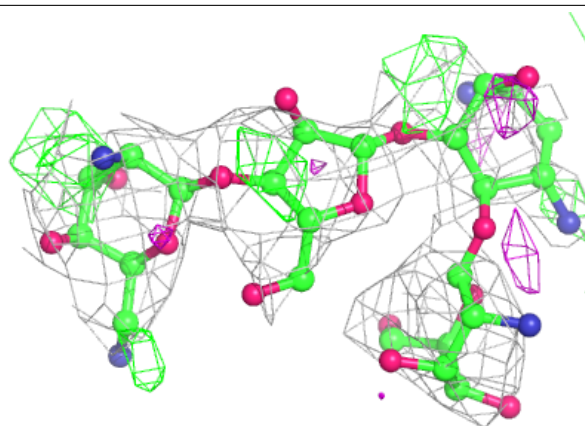
Electron density around PAR A 1602:

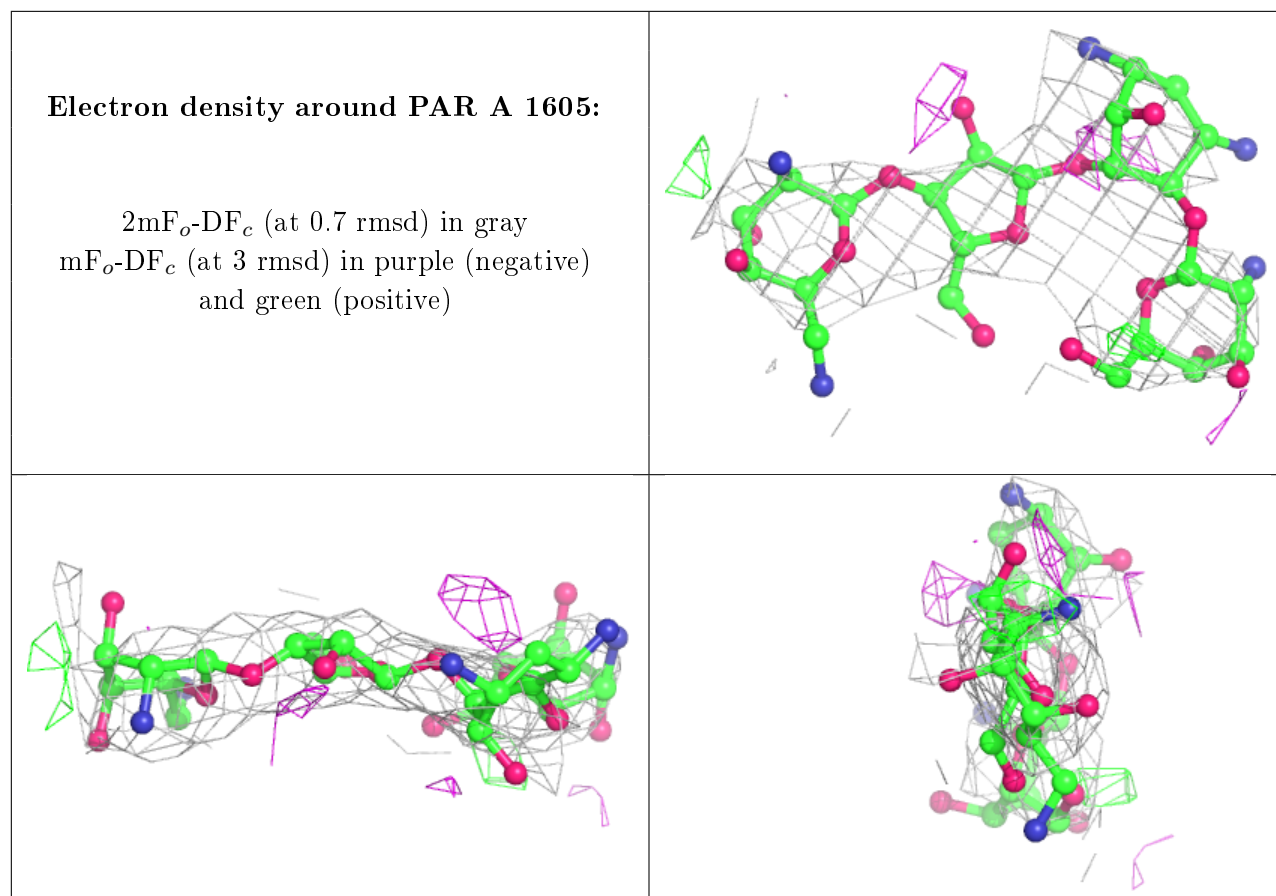
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PAR A 1603:

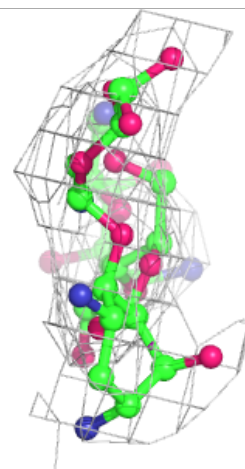
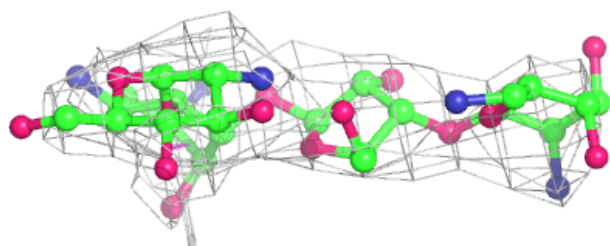
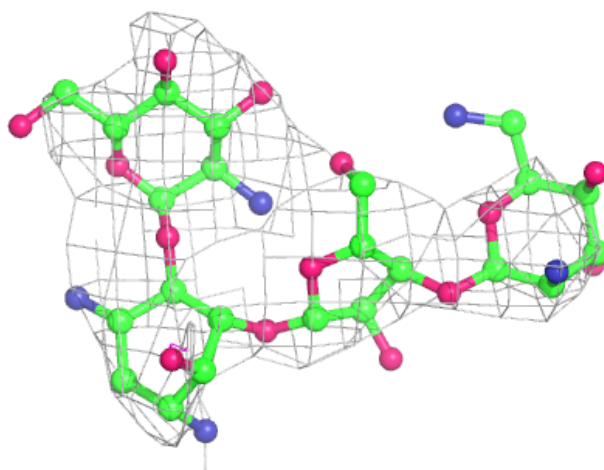
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)





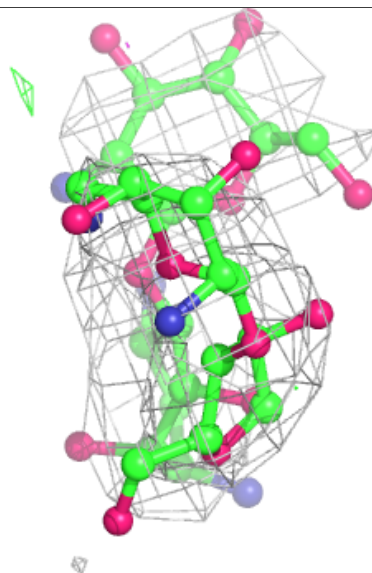
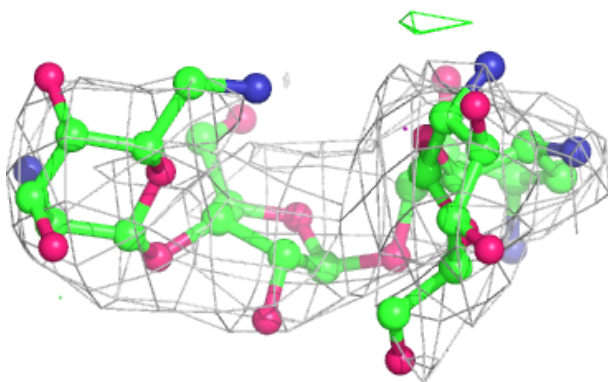
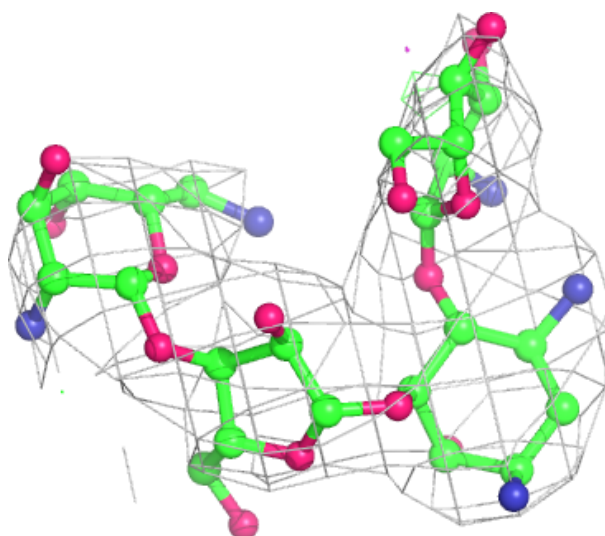
Electron density around PAR A 1604:

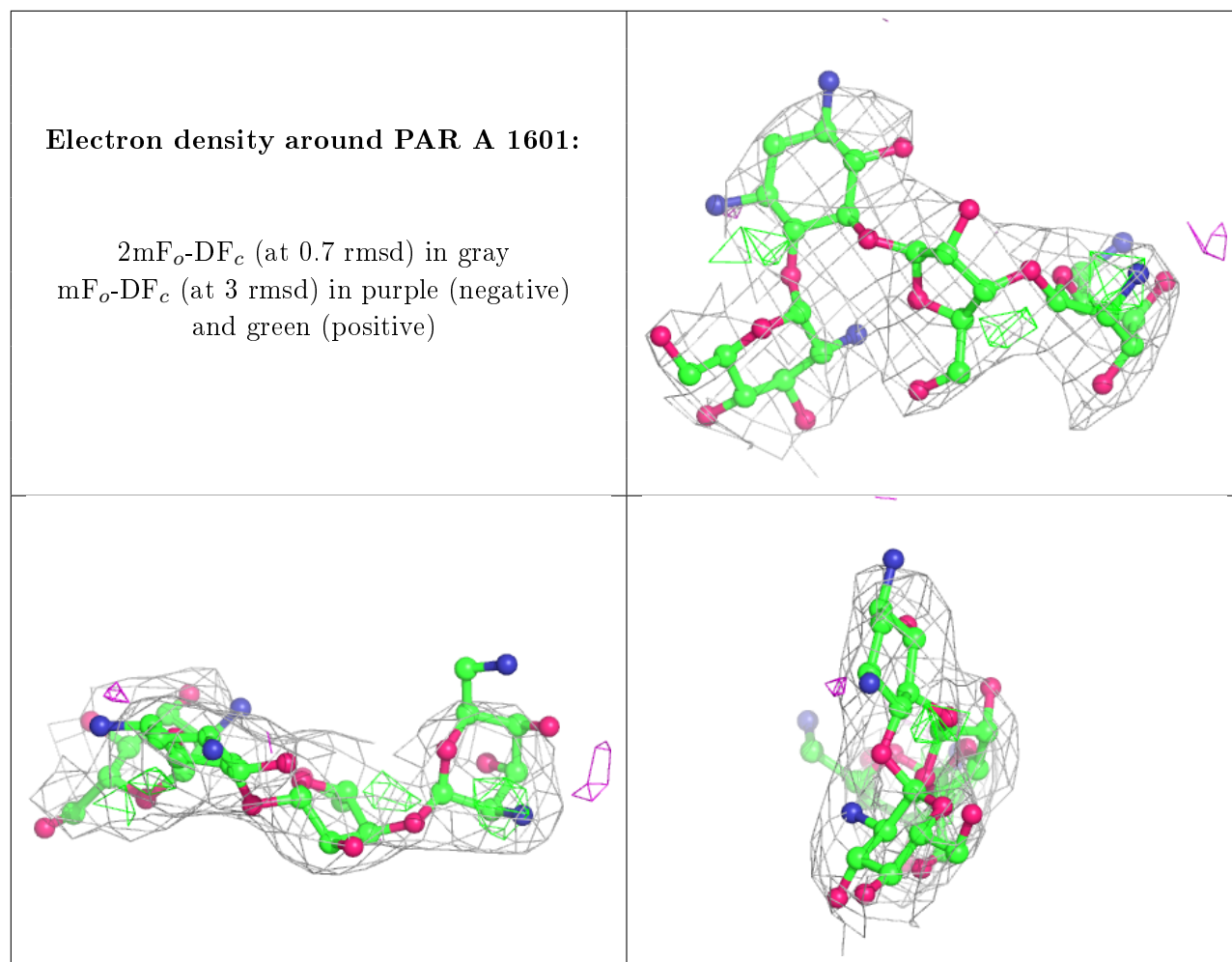
$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around PAR A 1606:

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





6.5 Other polymers [i](#)

There are no such residues in this entry.