



wwPDB EM Validation Summary Report ⓘ

Mar 8, 2026 – 04:05 PM UTC

PDB ID : 6PB5 / pdb_00006pb5
EMDB ID : EMD-20287
Title : The E. coli class-II CAP-dependent transcription activation complex at the state 1 architecture
Authors : Liu, B.; Shi, W.
Deposited on : 2019-06-13
Resolution : 4.52 Å(reported)

This is a wwPDB EM 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/EMValidationReportHelp>
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:

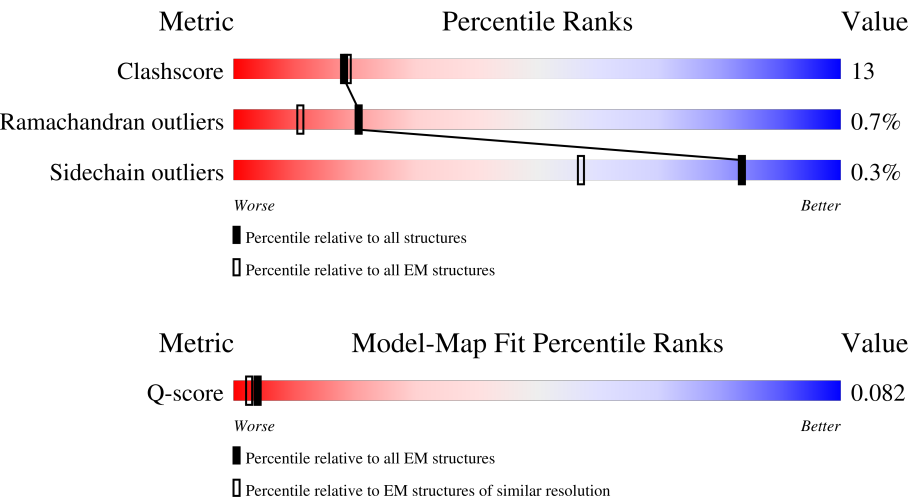
EMDB validation analysis : 0.0.1.dev132
Mogul : 2022.3.0, CSD as543be (2022)
MolProbity : 4-5-2 with Phenix2.0
Buster-report : wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 4.52 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	2506 (4.02 - 5.02)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the 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 EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	329	44%22%..30%
1	B	329	39%30%31%
2	C	1342	7% 65%34%..
3	D	1407	70%24%. 5%

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Mol	Chain	Length	Quality of chain
4	E	91	
5	F	628	
6	G	210	
6	H	210	
7	1	78	
8	2	78	

2 Entry composition [i](#)

There are 11 unique types of molecules in this entry. The entry contains 69718 atoms, of which 34341 are hydrogens and 0 are deuteriums.

In the tables below, 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 protein called DNA-directed RNA polymerase subunit alpha.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	230	Total	C	H	N	O	S	0	0
			3599	1112	1813	317	351	6		
1	B	228	Total	C	H	N	O	S	0	0
			3556	1100	1789	312	349	6		

- Molecule 2 is a protein called DNA-directed RNA polymerase subunit beta.

Mol	Chain	Residues	Atoms						AltConf	Trace
2	C	1334	Total	C	H	N	O	S	0	0
			21054	6603	10532	1831	2045	43		

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms						AltConf	Trace
3	D	1337	Total	C	H	N	O	S	0	0
			21012	6531	10616	1853	1962	50		

- Molecule 4 is a protein called DNA-directed RNA polymerase subunit omega.

Mol	Chain	Residues	Atoms						AltConf	Trace
4	E	79	Total	C	H	N	O	S	0	0
			1261	382	634	118	126	1		

- Molecule 5 is a protein called RNA polymerase sigma factor RpoD.

Mol	Chain	Residues	Atoms						AltConf	Trace
5	F	482	Total	C	H	N	O	S	0	0
			7892	2449	3975	700	745	23		

There are 15 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	-14	MET	-	expression tag	UNP P00579

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Chain	Residue	Modelled	Actual	Comment	Reference
F	-13	ARG	-	expression tag	UNP P00579
F	-12	GLY	-	expression tag	UNP P00579
F	-11	SER	-	expression tag	UNP P00579
F	-10	HIS	-	expression tag	UNP P00579
F	-9	HIS	-	expression tag	UNP P00579
F	-8	HIS	-	expression tag	UNP P00579
F	-7	HIS	-	expression tag	UNP P00579
F	-6	HIS	-	expression tag	UNP P00579
F	-5	HIS	-	expression tag	UNP P00579
F	-4	THR	-	expression tag	UNP P00579
F	-3	ASP	-	expression tag	UNP P00579
F	-2	GLN	-	expression tag	UNP P00579
F	-1	PHE	-	expression tag	UNP P00579
F	0	THR	-	expression tag	UNP P00579

- Molecule 6 is a protein called cAMP-activated global transcriptional regulator CRP.

Mol	Chain	Residues	Atoms						AltConf	Trace
6	G	197	Total	C	H	N	O	S	0	0
			3154	986	1598	273	288	9		
6	H	197	Total	C	H	N	O	S	0	0
			3155	986	1599	273	288	9		

- Molecule 7 is a DNA chain called SYNTHETIC NONTEMPLATE STRAND DNA (78-MER).

Mol	Chain	Residues	Atoms						AltConf	Trace
7	1	78	Total	C	H	N	O	P	0	0
			2480	765	889	264	484	78		

- Molecule 8 is a DNA chain called SYNTHETIC TEMPLATE STRAND DNA (78-MER).

Mol	Chain	Residues	Atoms						AltConf	Trace
8	2	78	Total	C	H	N	O	P	0	0
			2486	767	874	313	454	78		

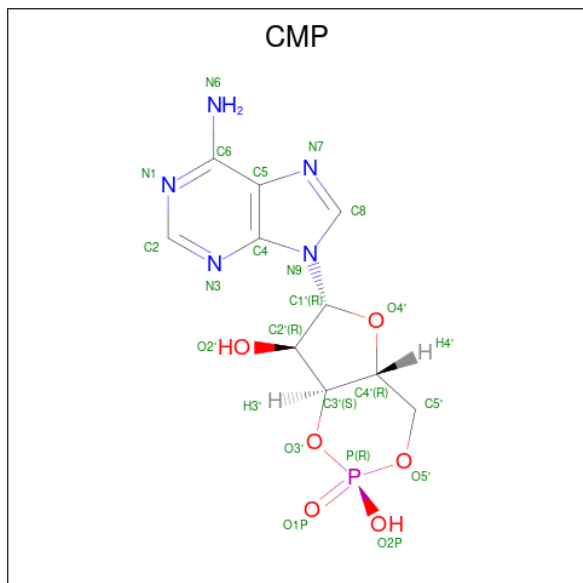
- Molecule 9 is ZINC ION (CCD ID: ZN) (formula: Zn) (labeled as "Ligand of Interest" by depositor).

Mol	Chain	Residues	Atoms		AltConf
9	D	2	Total	Zn	0
			2	2	

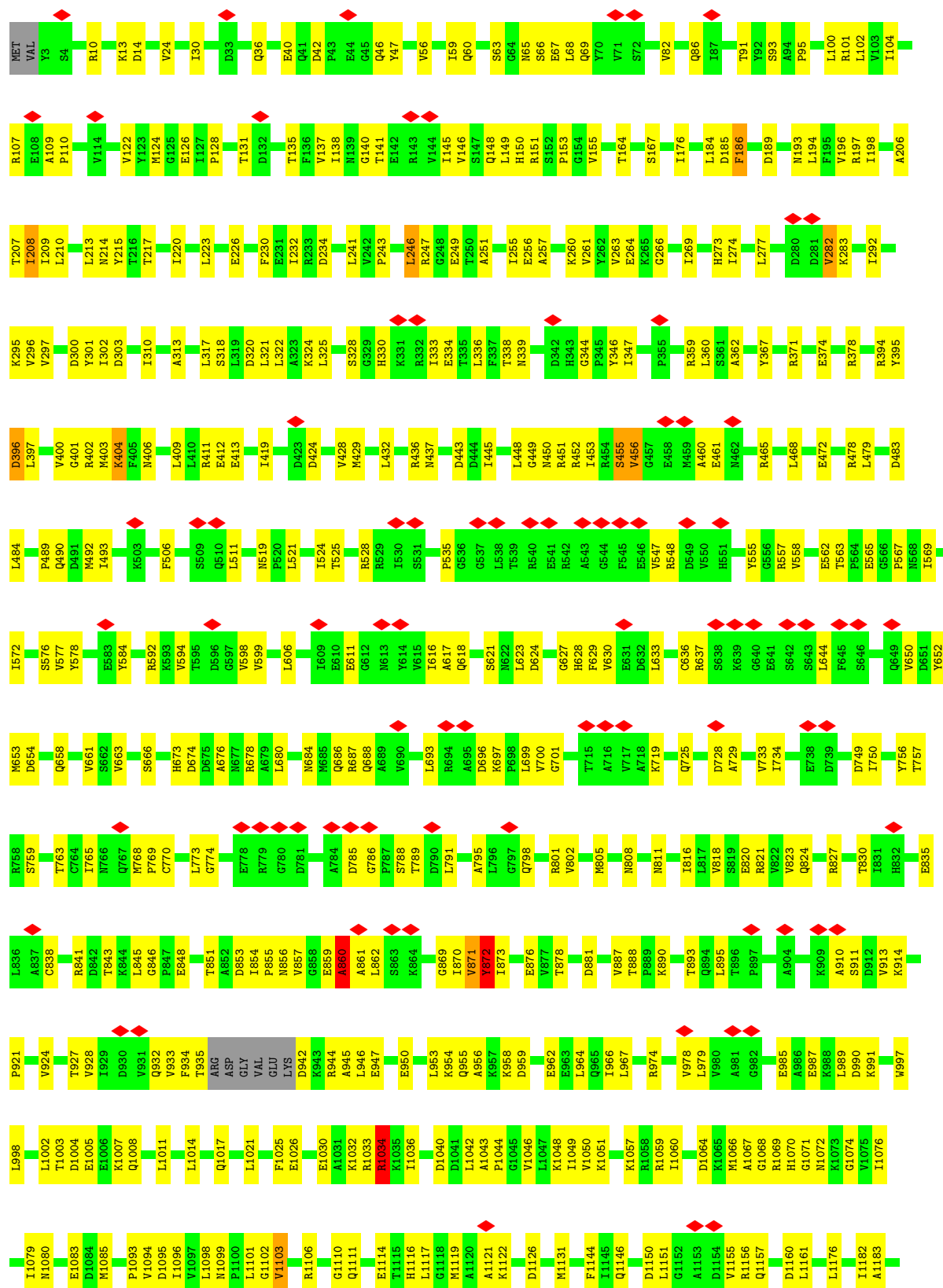
- Molecule 10 is MAGNESIUM ION (CCD ID: MG) (formula: Mg) (labeled as "Ligand of Interest" by depositor).

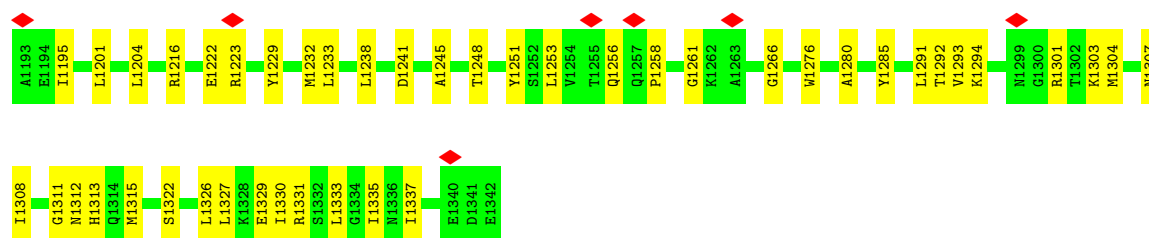
Mol	Chain	Residues	Atoms		AltConf
10	D	1	Total	Mg	0
			1	1	

- Molecule 11 is ADENOSINE-3',5'-CYCLIC-MONOPHOSPHATE (CCD ID: CMP) (formula: C₁₀H₁₂N₅O₆P) (labeled as "Ligand of Interest" by depositor).



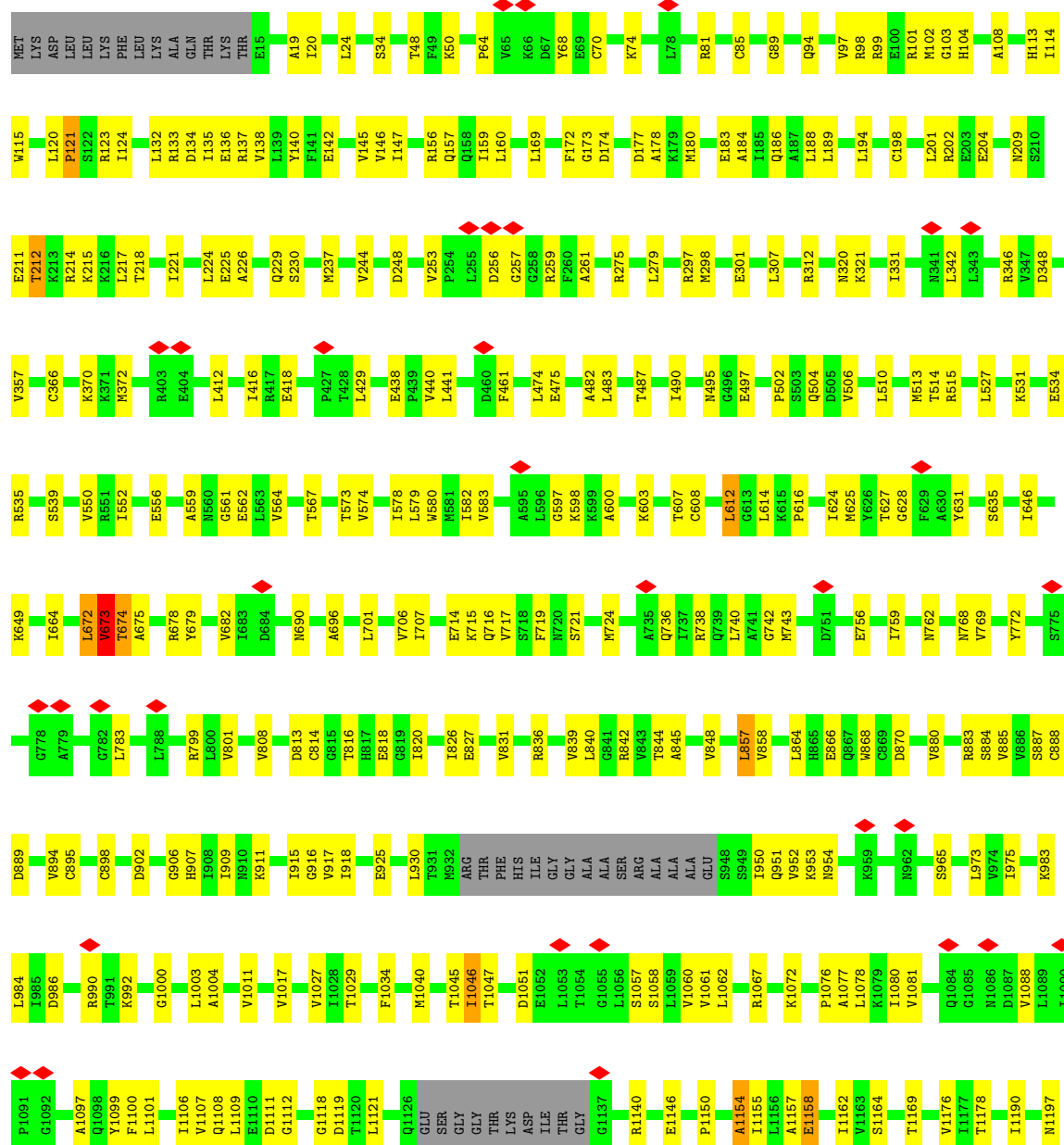
Mol	Chain	Residues	Atoms					AltConf	
11	G	1	Total 33	C 10	H 11	N 5	O 6	P 1	0
11	H	1	Total 33	C 10	H 11	N 5	O 6	P 1	0



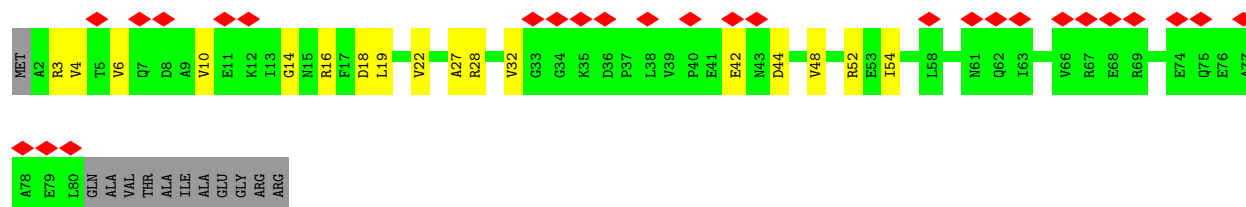


• Molecule 3: DNA-directed RNA polymerase subunit beta'

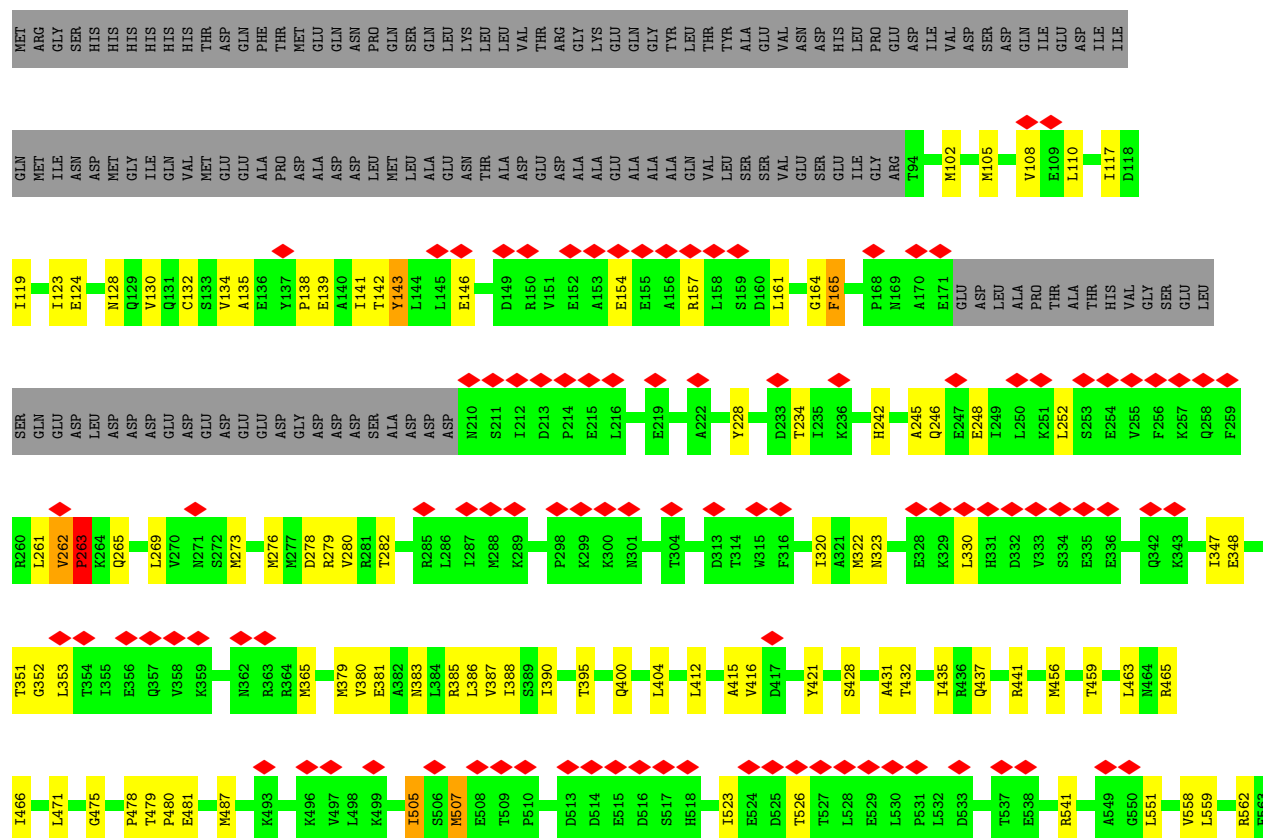
Chain D: 70% 24% 5%



- Molecule 4: DNA-directed RNA polymerase subunit omega

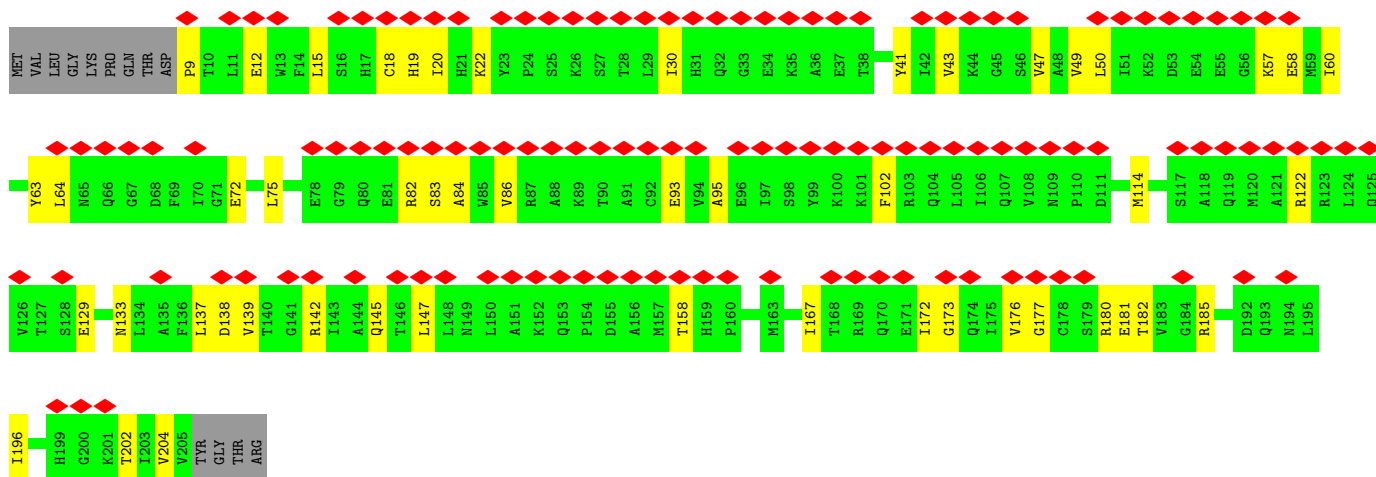


- Molecule 5: RNA polymerase sigma factor RpoD

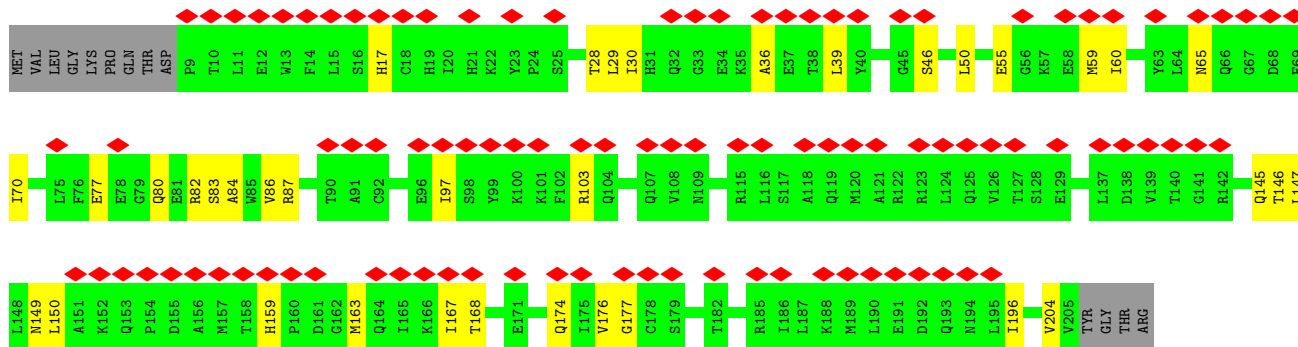
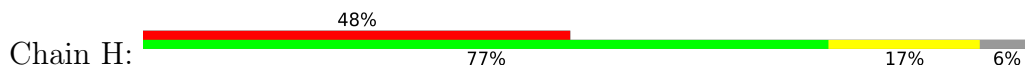




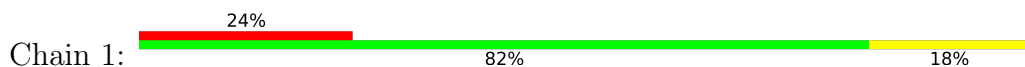
• Molecule 6: cAMP-activated global transcriptional regulator CRP



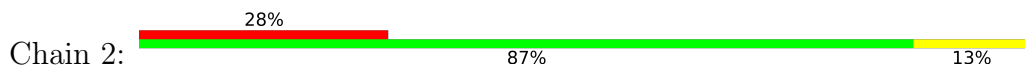
• Molecule 6: cAMP-activated global transcriptional regulator CRP

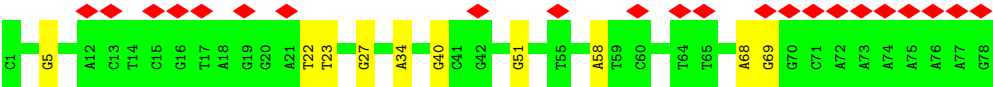


• Molecule 7: SYNTHETIC NONTEMPLATE STRAND DNA (78-MER)



• Molecule 8: SYNTHETIC TEMPLATE STRAND DNA (78-MER)





4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	30296	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	36	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2600	Depositor
Magnification	96000	Depositor
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	5.780	Depositor
Minimum map value	-1.761	Depositor
Average map value	-0.020	Depositor
Map value standard deviation	0.262	Depositor
Recommended contour level	0.4	Depositor
Map size ($\text{\AA}$)	345.59998, 345.59998, 345.59998	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.8999999, 0.8999999, 0.8999999	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# $ Z > 5$	RMSZ	# $ Z > 5$
1	A	0.54	0/1808	0.89	4/2450 (0.2%)
1	B	0.57	0/1789	0.74	0/2425
2	C	0.53	1/10690 (0.0%)	0.79	4/14423 (0.0%)
3	D	0.47	0/10553	0.72	7/14248 (0.0%)
4	E	0.33	0/629	0.52	0/847
5	F	0.43	0/3971	0.70	2/5340 (0.0%)
6	G	0.49	0/1580	0.76	2/2127 (0.1%)
6	H	0.49	0/1580	0.75	0/2127
7	1	0.48	0/1777	0.77	0/2741
8	2	0.45	0/1815	0.66	0/2800
All	All	0.49	1/36192 (0.0%)	0.75	19/49528 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	10
1	B	0	1
2	C	0	20
3	D	0	11
5	F	0	9
6	H	0	3
All	All	0	54

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1079	ILE	C-N	-6.45	1.23	1.33

The worst 5 of 19 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	147	GLN	CA-C-N	6.95	134.81	121.54
1	A	147	GLN	C-N-CA	6.95	134.81	121.54
2	C	246	LEU	N-CA-C	-6.38	100.72	109.71
3	D	672	LEU	N-CA-C	-5.76	98.52	110.80
5	F	263	PRO	CA-C-N	5.70	132.43	121.54

There are no chirality outliers.

5 of 54 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	149	GLY	Peptide
1	A	51	MET	Peptide
1	A	55	ALA	Peptide
1	A	68	TYR	Peptide
1	A	77	ASP	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1786	1813	1813	67	0
1	B	1767	1789	1789	83	0
2	C	10522	10532	10533	367	0
3	D	10396	10616	10616	273	0
4	E	627	634	634	19	0
5	F	3917	3975	3977	84	0
6	G	1556	1598	1600	51	0
6	H	1556	1599	1600	25	0
7	1	1591	889	891	17	0
8	2	1612	874	876	10	0
9	D	2	0	0	0	0
10	D	1	0	0	0	0
11	G	22	11	11	2	0
11	H	22	11	11	5	0
All	All	35377	34341	34351	903	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 13.

The worst 5 of 903 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)
11:H:301:CMP:H2	11:H:301:CMP:C2	0.97	1.50
11:G:301:CMP:H2	11:G:301:CMP:C2	0.97	1.48
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.44	0.90
3:D:261:ALA:HB1	5:F:507:MET:HE3	1.56	0.86
1:A:16:ILE:HD11	1:A:214:GLU:HB2	1.58	0.84

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 PDB entries followed by that with respect to all EM entries.

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	
1	A	228/329 (69%)	192 (84%)	30 (13%)	6 (3%)	4	26
1	B	226/329 (69%)	205 (91%)	21 (9%)	0	100	100
2	C	1330/1342 (99%)	1158 (87%)	161 (12%)	11 (1%)	16	53
3	D	1331/1407 (95%)	1155 (87%)	170 (13%)	6 (0%)	24	63
4	E	77/91 (85%)	74 (96%)	3 (4%)	0	100	100
5	F	478/628 (76%)	418 (87%)	56 (12%)	4 (1%)	16	53
6	G	195/210 (93%)	181 (93%)	14 (7%)	0	100	100
6	H	195/210 (93%)	178 (91%)	16 (8%)	1 (0%)	24	63
All	All	4060/4546 (89%)	3561 (88%)	471 (12%)	28 (1%)	20	55

5 of 28 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	178	SER

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Mol	Chain	Res	Type
2	C	339	ASN
2	C	860	ALA
2	C	861	ALA
2	C	872	TYR

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 PDB entries followed by that with respect to all EM entries.

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	
1	A	198/286 (69%)	197 (100%)	1 (0%)	81	81
1	B	196/286 (68%)	195 (100%)	1 (0%)	81	81
2	C	1150/1157 (99%)	1148 (100%)	2 (0%)	87	85
3	D	1120/1168 (96%)	1116 (100%)	4 (0%)	84	82
4	E	67/75 (89%)	67 (100%)	0	100	100
5	F	428/554 (77%)	427 (100%)	1 (0%)	87	85
6	G	170/181 (94%)	170 (100%)	0	100	100
6	H	170/181 (94%)	170 (100%)	0	100	100
All	All	3499/3888 (90%)	3490 (100%)	9 (0%)	84	84

5 of 9 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	D	1357	ILE
5	F	263	PRO
2	C	1034	ARG
3	D	857	LEU
3	D	1206	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 35 such sidechains are listed below:

Mol	Chain	Res	Type
5	F	579	GLN

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Mol	Chain	Res	Type
6	G	21	HIS
6	H	149	ASN
2	C	1017	GLN
2	C	832	HIS

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 5 ligands modelled in this entry, 3 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
11	CMP	G	301	-	25,25,25	1.75	7 (28%)	37,39,39	1.98	10 (27%)
11	CMP	H	301	-	25,25,25	1.87	9 (36%)	37,39,39	2.17	13 (35%)

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
11	CMP	G	301	-	-	0/4/31/31	0/4/4/4
11	CMP	H	301	-	-	0/4/31/31	0/4/4/4

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	G	301	CMP	C5-C4	4.30	1.46	1.39
11	H	301	CMP	C5-C4	4.10	1.46	1.39
11	H	301	CMP	P-O3'	3.77	1.64	1.57
11	G	301	CMP	P-O3'	3.57	1.63	1.57
11	H	301	CMP	P-O5'	3.52	1.61	1.57

The worst 5 of 23 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
11	G	301	CMP	C5-C4-N3	-5.66	118.93	126.72
11	H	301	CMP	C5-C4-N3	-5.31	119.40	126.72
11	H	301	CMP	N3-C4-N9	4.37	134.60	127.17
11	G	301	CMP	N3-C4-N9	4.30	134.48	127.17
11	H	301	CMP	N3-C2-N1	-3.89	122.69	128.58

There are no chirality outliers.

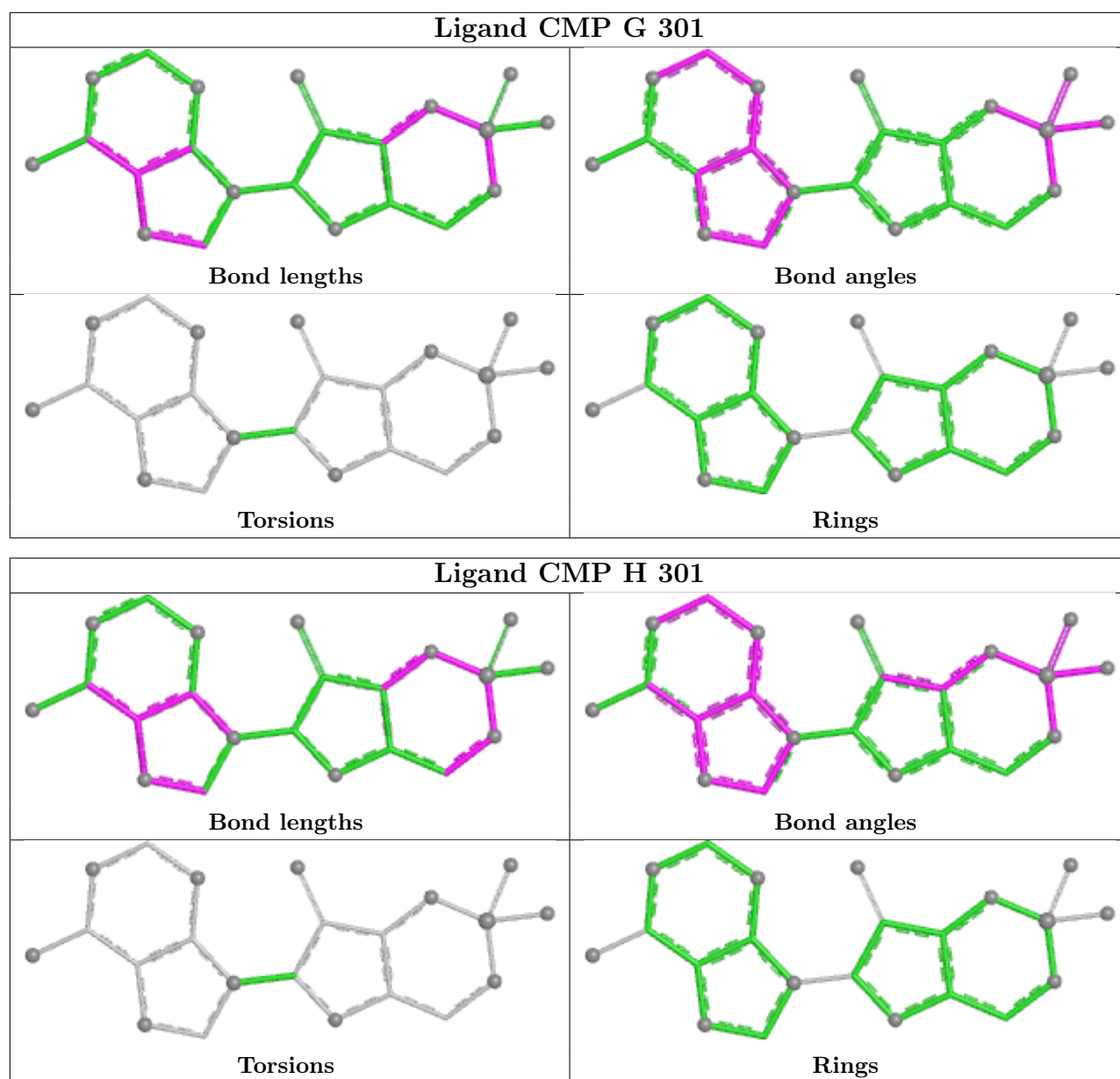
There are no torsion outliers.

There are no ring outliers.

2 monomers are involved in 7 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
11	G	301	CMP	2	0
11	H	301	CMP	5	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.

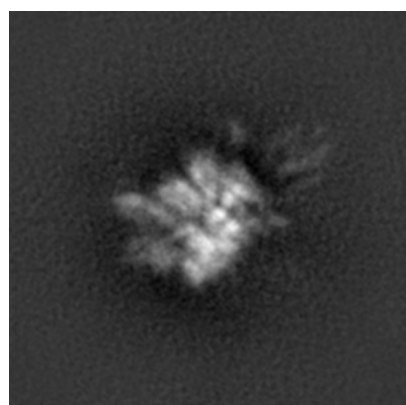
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-20287. These allow visual inspection of the internal detail of the map and identification of artifacts.

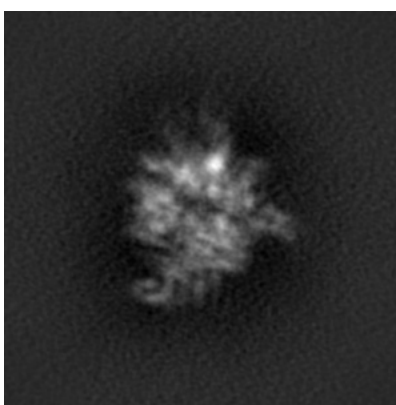
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

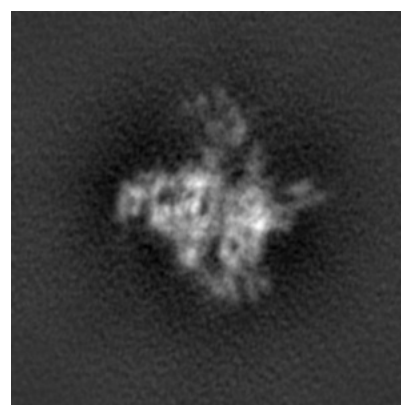
6.1.1 Primary map



X



Y

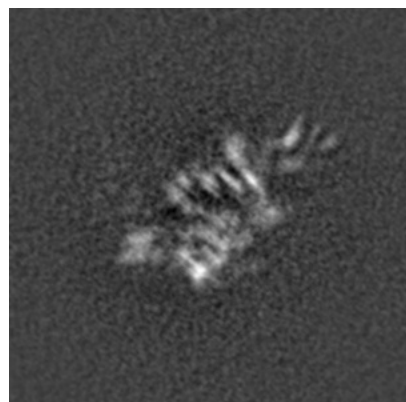


Z

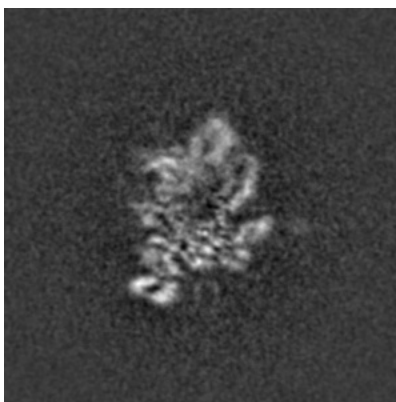
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

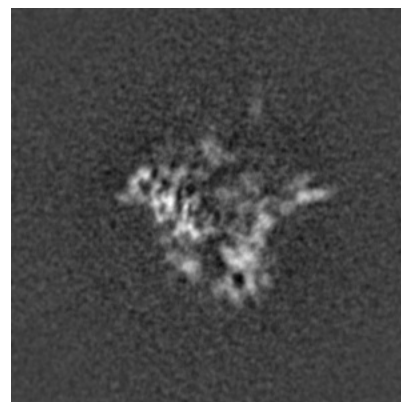
6.2.1 Primary map



X Index: 192



Y Index: 192

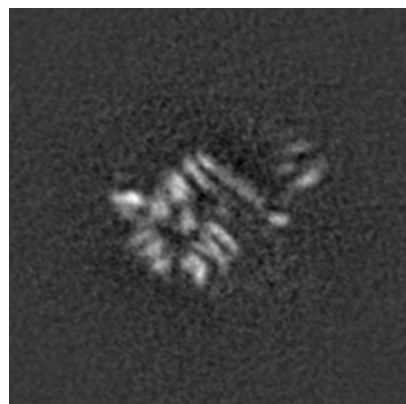


Z Index: 192

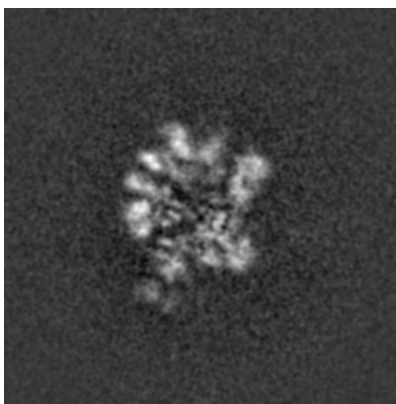
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

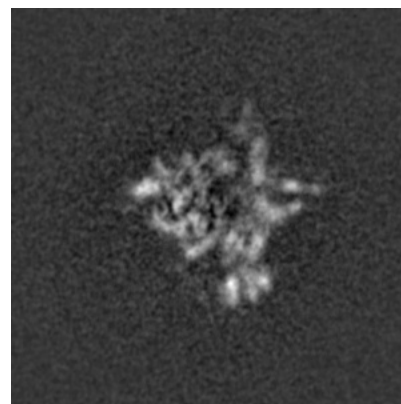
6.3.1 Primary map



X Index: 211



Y Index: 180

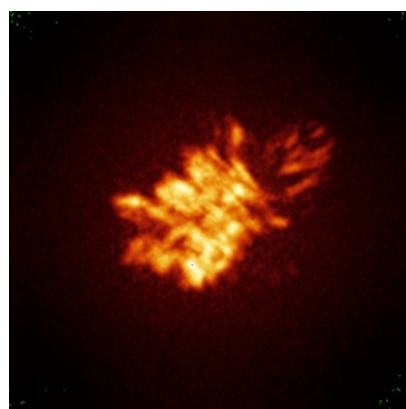


Z Index: 203

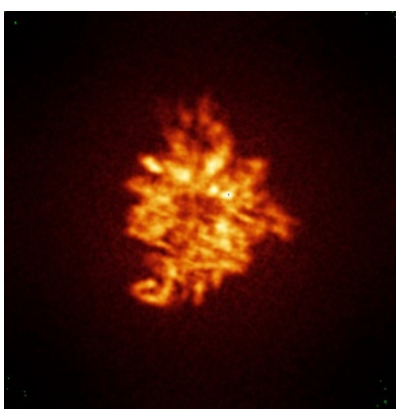
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views

This section was not generated.

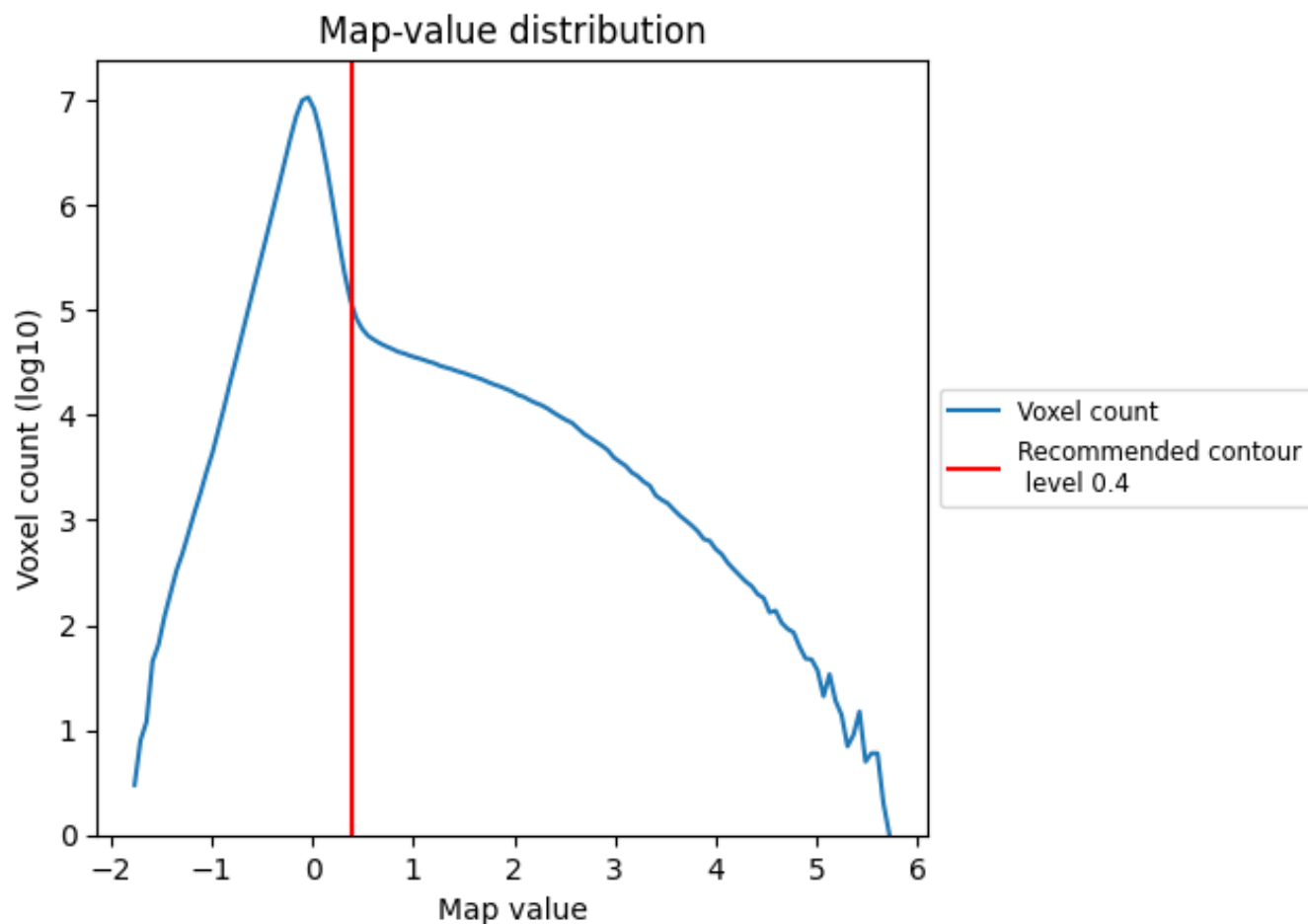
6.6 Mask visualisation

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

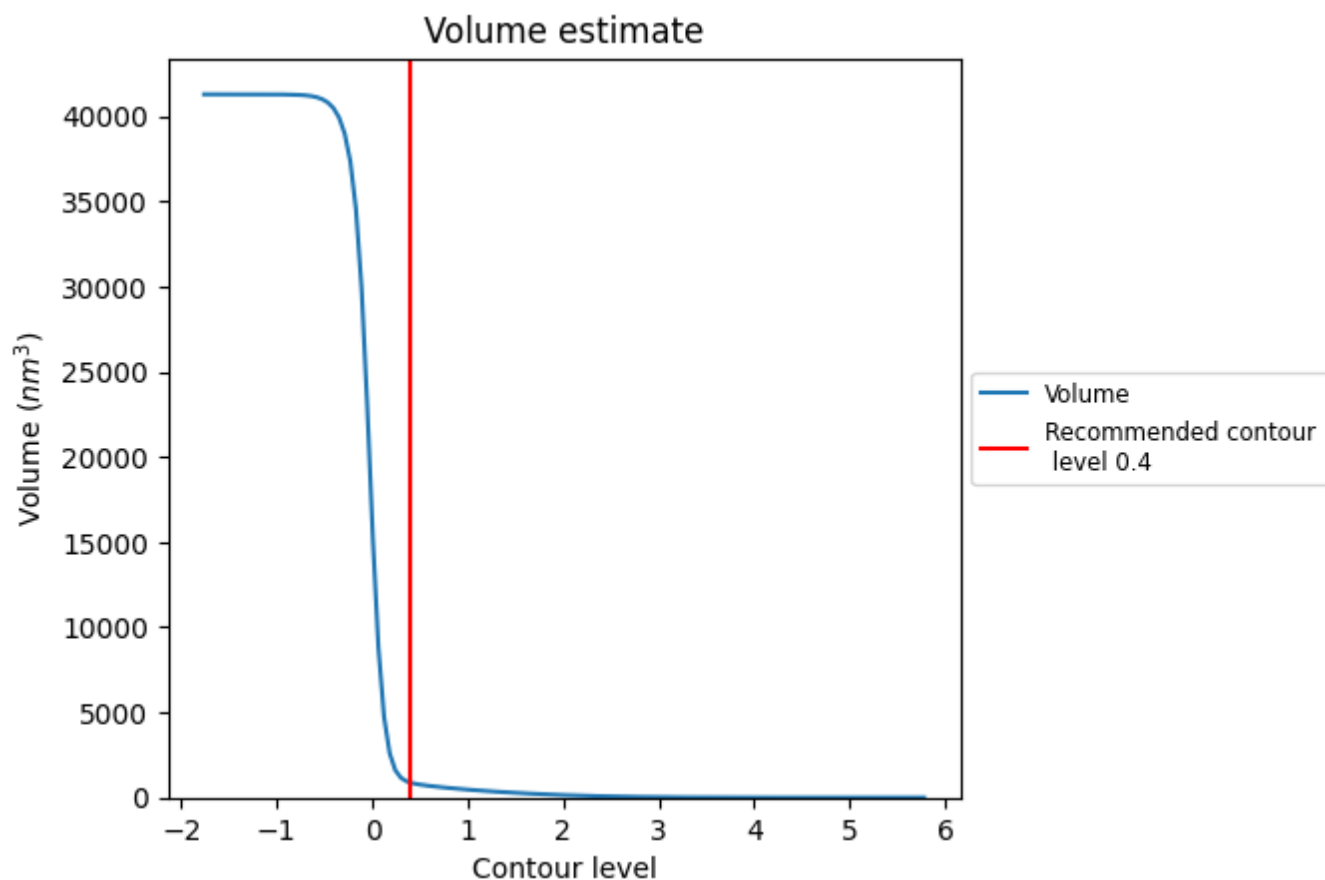
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

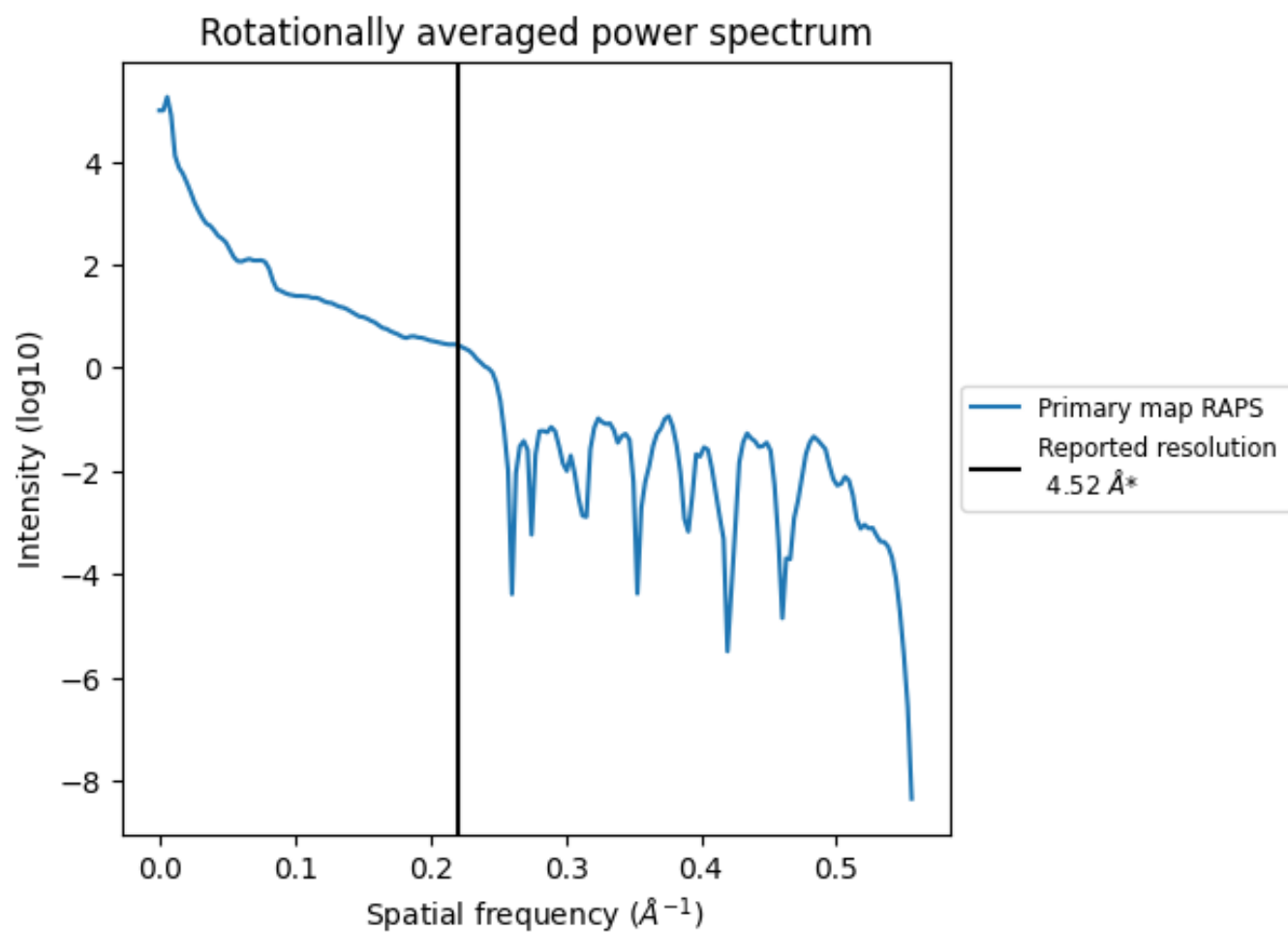
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 881 nm³; this corresponds to an approximate mass of 796 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum ⓘ



*Reported resolution corresponds to spatial frequency of 0.221 Å⁻¹

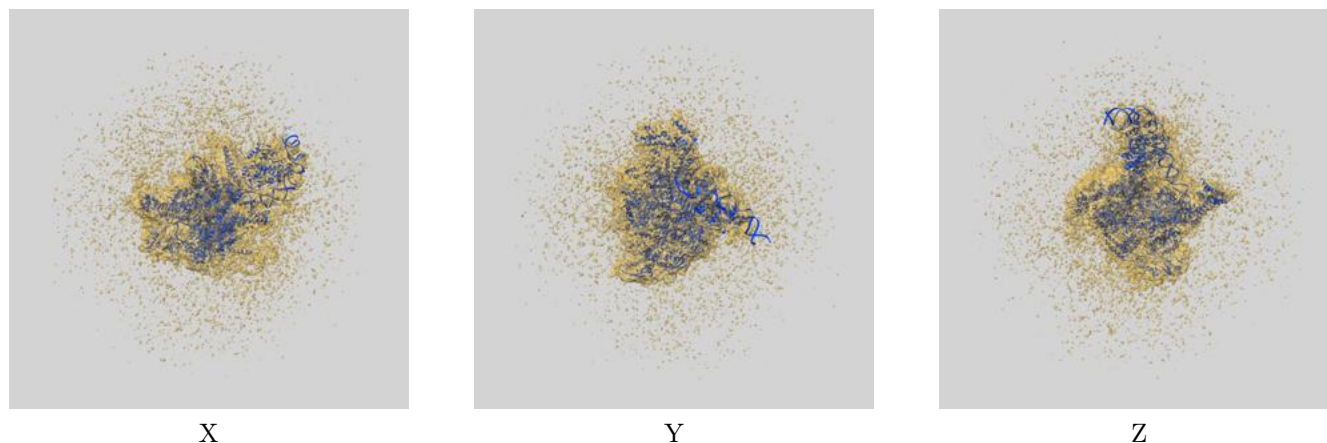
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-20287 and PDB model 6PB5. Per-residue inclusion information can be found in section [3](#) on page [7](#).

9.1 Map-model overlay [i](#)



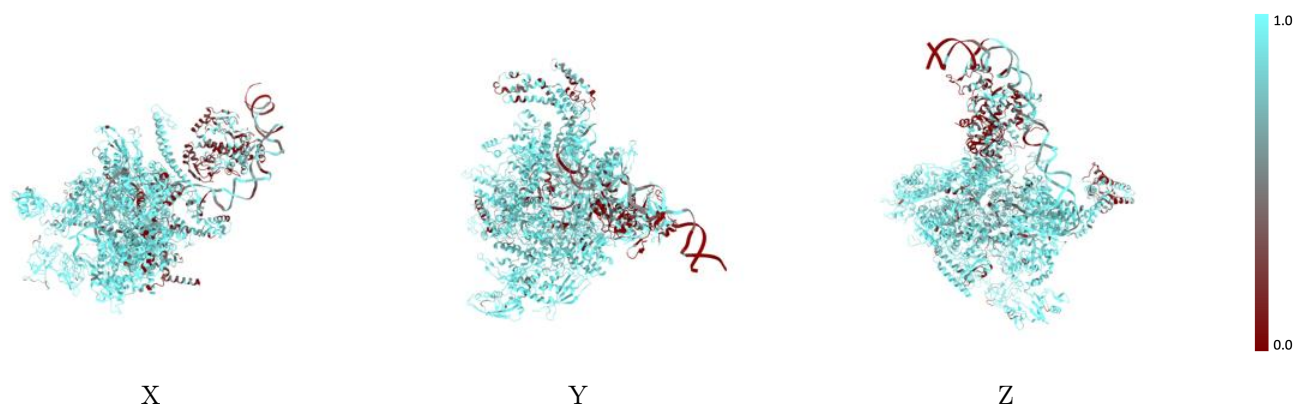
The images above show the 3D surface view of the map at the recommended contour level 0.4 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



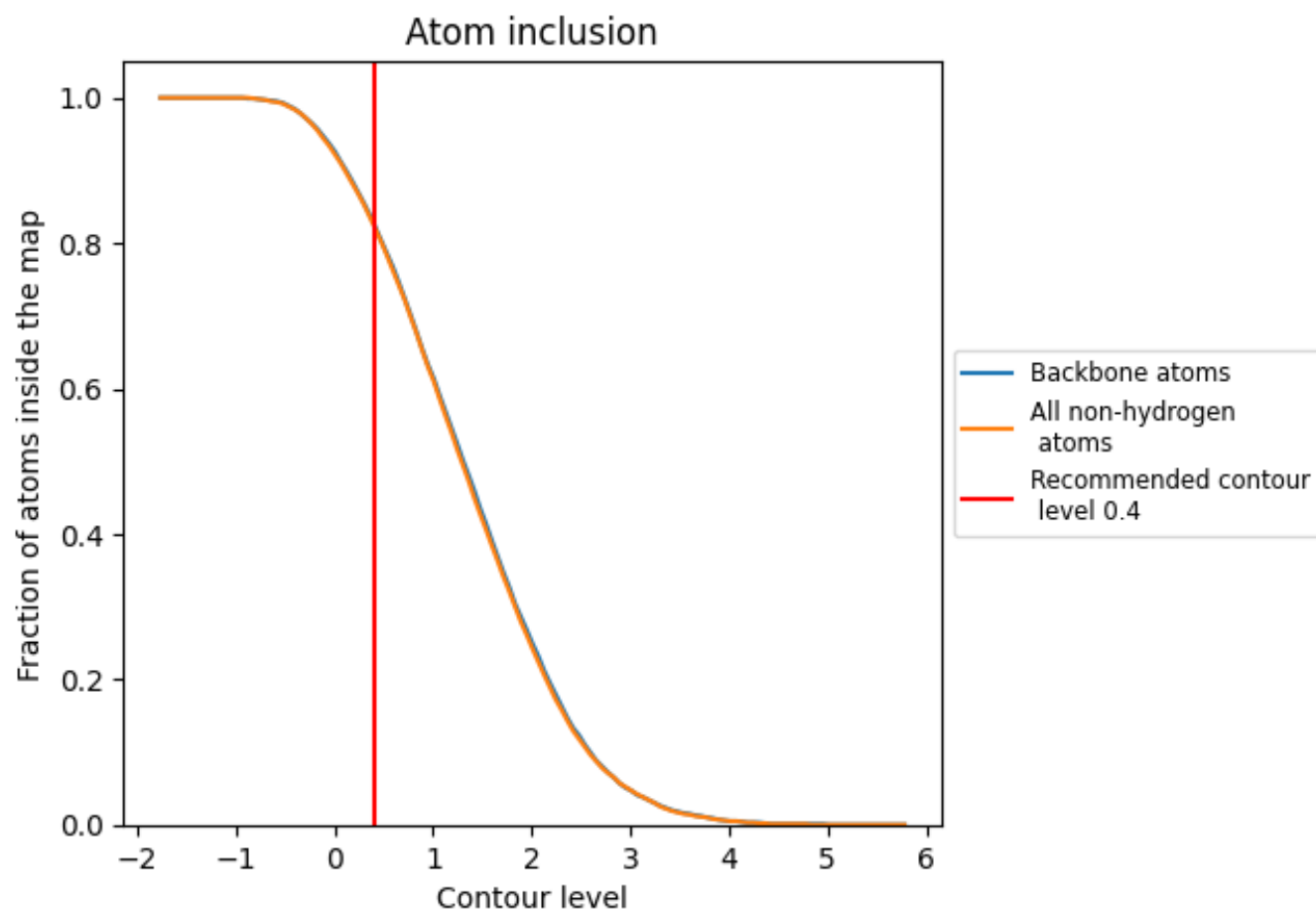
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.4).

9.4 Atom inclusion [i](#)



At the recommended contour level, 83% of all backbone atoms, 82% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8250	0.0820
1	0.6530	0.0640
2	0.6140	0.0680
A	0.9410	0.0860
B	0.9380	0.1250
C	0.8970	0.0740
D	0.9450	0.1100
E	0.6270	0.0430
F	0.7190	0.0700
G	0.3580	0.0280
H	0.4380	0.0200

1.0
0.0
<0.0