



Full wwPDB EM Validation Report ⓘ

Nov 22, 2022 – 01:25 PM JST

PDB ID : 7EGE
EMDB ID : EMD-31114
Title : TFIID in canonical conformation
Authors : Chen, X.; Wu, Z.; Li, J.; Zhao, D.; Xu, Y.
Deposited on : 2021-03-24
Resolution : 9.00 Å (reported)

This is a Full wwPDB EM Validation 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:

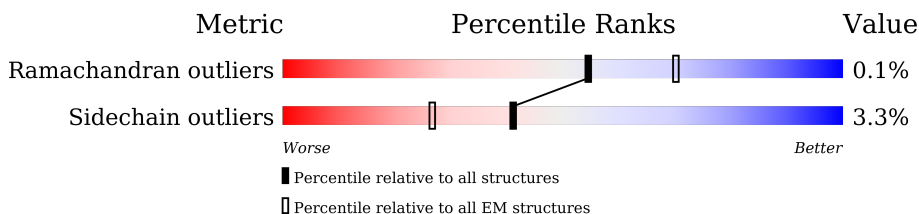
EMDB validation analysis : 0.0.1.dev43
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ : 1.9.9
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.31.3

1 Overall quality at a glance

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

The reported resolution of this entry is 9.00 Å.

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





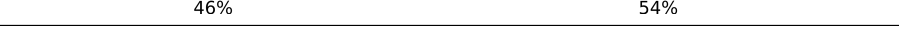
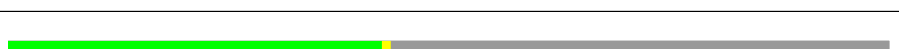



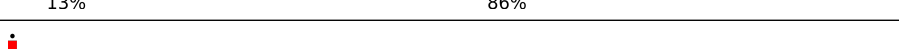



Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	1872	
2	B	1199	
3	D	1085	
3	d	1085	
4	E	800	
4	e	800	
5	F	677	
5	f	677	
6	G	349	

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Mol	Chain	Length	Quality of chain
7	H	310	 65% 33%
8	I	264	 45% 55%
8	i	264	 46% 54%
9	J	218	 38% 59%
9	j	218	 42% 56%
10	L	161	 44% 53%
10	l	161	 66% 34%
11	P	339	 37% 51% 48%
12	c	929	 13% 86%
13	k	211	 46% 54%
14	m	124	 65% 6% 30%

2 Entry composition [i](#)

There are 14 unique types of molecules in this entry. The entry contains 41435 atoms, of which 0 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 Transcription initiation factor TFIID subunit 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	549	Total	C	N	O	S	0	0
			4505	2879	781	818	27		

- Molecule 2 is a protein called Transcription initiation factor TFIID subunit 2.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	B	963	Total	C	N	O	S	0	0
			7796	5011	1315	1412	58		

- Molecule 3 is a protein called Transcription initiation factor TFIID subunit 4.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	D	154	Total	C	N	O	S	0	0
			1266	789	231	243	3		
3	d	158	Total	C	N	O	S	0	0
			1307	814	238	252	3		

- Molecule 4 is a protein called Transcription initiation factor TFIID subunit 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	E	547	Total	C	N	O	S	0	0
			4376	2774	759	822	21		
4	e	539	Total	C	N	O	S	0	0
			4327	2746	748	814	19		

- Molecule 5 is a protein called Transcription initiation factor TFIID subunit 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	F	412	Total	C	N	O	S	0	0
			3149	1997	551	583	18		
5	f	403	Total	C	N	O	S	0	0
			3081	1954	533	576	18		

- Molecule 6 is a protein called Transcription initiation factor TFIID subunit 7.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	G	144	1171	742	215	210	4	0	0

- Molecule 7 is a protein called Transcription initiation factor TFIID subunit 8.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
7	H	209	1622	1026	281	310	5	0	0

- Molecule 8 is a protein called Transcription initiation factor TFIID subunit 9.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
8	I	120	959	610	166	177	6	0	0
8	i	121	967	615	167	178	7	0	0

- Molecule 9 is a protein called Transcription initiation factor TFIID subunit 10.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
9	J	90	720	466	115	135	4	0	0
9	j	95	759	488	124	143	4	0	0

- Molecule 10 is a protein called Transcription initiation factor TFIID subunit 12.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
10	L	76	622	388	109	122	3	0	0
10	l	107	876	547	158	166	5	0	0

- Molecule 11 is a protein called TATA-box-binding protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
11	P	177	1412	918	249	238	7	0	0

- Molecule 12 is a protein called Transcription initiation factor TFIID subunit 3.

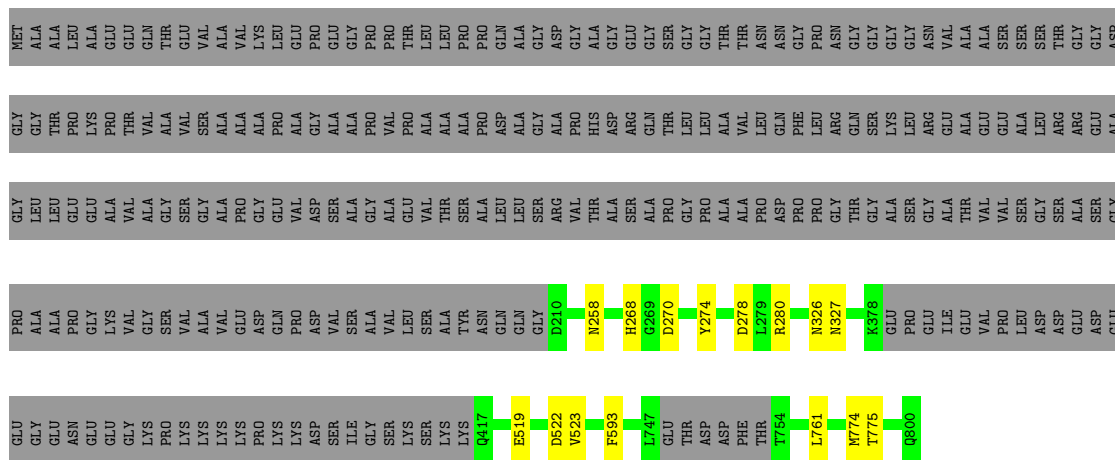
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
12	c	127	1011	638	174	193	6	0	0

- Molecule 13 is a protein called Transcription initiation factor TFIID subunit 11.

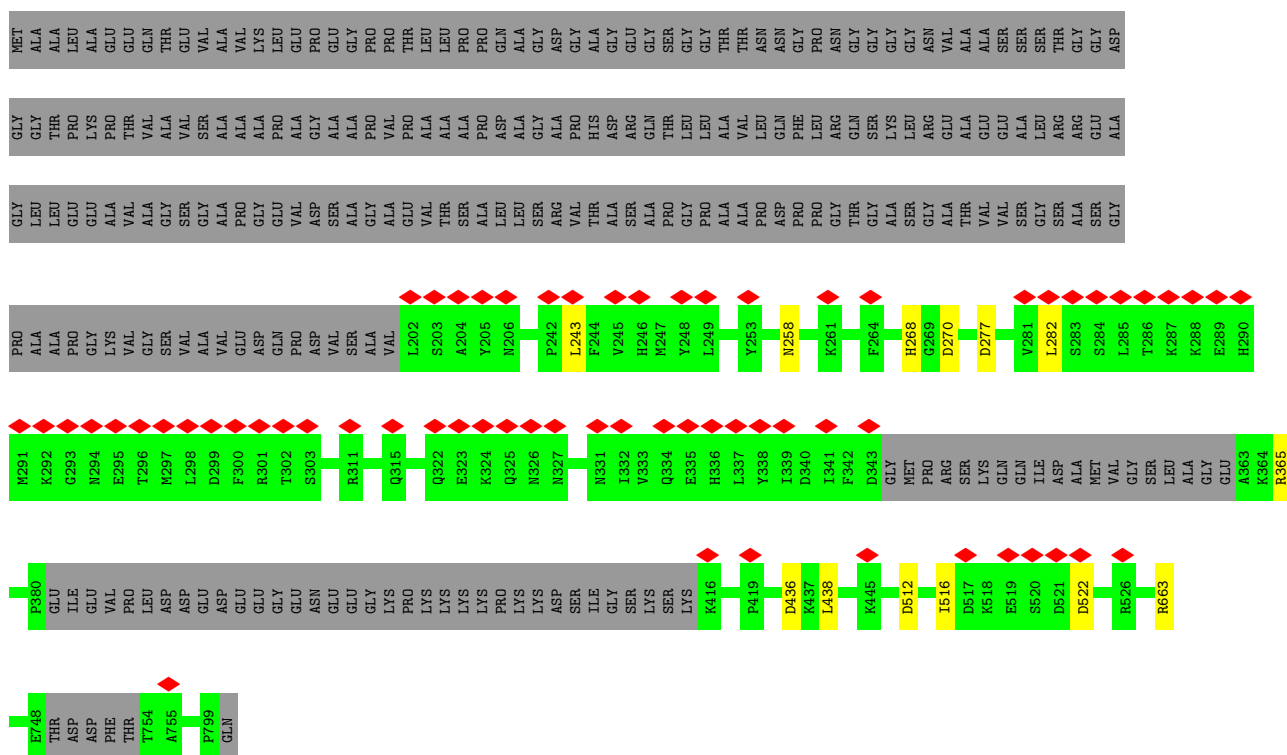
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
13	k	98	785	499	142	139	5	0	0

- Molecule 14 is a protein called Transcription initiation factor TFIID subunit 13.

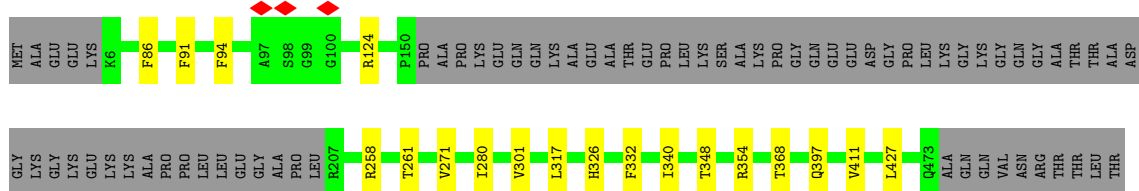
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
14	m	87	724	456	131	131	6	0	0



• Molecule 4: Transcription initiation factor TFIID subunit 5



• Molecule 5: Transcription initiation factor TFIID subunit 6



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	66920	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.043	Depositor
Minimum map value	-0.014	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.0062	Depositor
Map size (Å)	432.0, 432.0, 432.0	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.35, 1.35, 1.35	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

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	0.50	0/4621	0.67	0/6240
2	B	0.46	0/7993	0.60	0/10836
3	D	0.37	0/1279	0.52	0/1714
3	d	0.39	0/1321	0.53	0/1772
4	E	0.39	0/4482	0.59	0/6069
4	e	0.43	0/4433	0.59	0/6004
5	F	0.48	0/3207	0.69	0/4354
5	f	0.40	0/3140	0.63	0/4268
6	G	0.51	0/1190	0.62	0/1601
7	H	0.49	0/1662	0.66	0/2272
8	I	0.28	0/981	0.48	0/1332
8	i	0.29	0/989	0.46	0/1343
9	J	0.57	0/736	0.69	0/998
9	j	0.53	0/775	0.63	0/1049
10	L	0.49	0/630	0.71	0/852
10	l	0.43	0/888	0.55	0/1194
11	P	0.46	0/1438	0.57	0/1935
12	c	0.39	0/1035	0.54	0/1406
13	k	0.30	0/799	0.47	0/1070
14	m	0.59	0/733	0.64	0/977
All	All	0.45	0/42332	0.61	0/57286

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

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 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	533/1872 (28%)	513 (96%)	19 (4%)	1 (0%)	47	81
2	B	959/1199 (80%)	911 (95%)	48 (5%)	0	100	100
3	D	148/1085 (14%)	143 (97%)	5 (3%)	0	100	100
3	d	154/1085 (14%)	149 (97%)	5 (3%)	0	100	100
4	E	541/800 (68%)	516 (95%)	24 (4%)	1 (0%)	47	81
4	e	531/800 (66%)	482 (91%)	48 (9%)	1 (0%)	47	81
5	F	408/677 (60%)	391 (96%)	16 (4%)	1 (0%)	47	81
5	f	399/677 (59%)	380 (95%)	19 (5%)	0	100	100
6	G	138/349 (40%)	135 (98%)	3 (2%)	0	100	100
7	H	207/310 (67%)	194 (94%)	13 (6%)	0	100	100
8	I	118/264 (45%)	115 (98%)	3 (2%)	0	100	100
8	i	119/264 (45%)	115 (97%)	4 (3%)	0	100	100
9	J	86/218 (39%)	82 (95%)	4 (5%)	0	100	100
9	j	91/218 (42%)	85 (93%)	4 (4%)	2 (2%)	6	35
10	L	74/161 (46%)	72 (97%)	2 (3%)	0	100	100
10	l	105/161 (65%)	100 (95%)	5 (5%)	0	100	100
11	P	175/339 (52%)	165 (94%)	9 (5%)	1 (1%)	25	66
12	c	125/929 (14%)	116 (93%)	9 (7%)	0	100	100
13	k	96/211 (46%)	91 (95%)	5 (5%)	0	100	100
14	m	85/124 (68%)	82 (96%)	3 (4%)	0	100	100
All	All	5092/11743 (43%)	4837 (95%)	248 (5%)	7 (0%)	54	86

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	E	523	VAL

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Mol	Chain	Res	Type
4	e	522	ASP
9	j	124	GLU
5	F	411	VAL
9	j	177	LYS
11	P	251	LEU
1	A	498	PRO

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 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	487/1665 (29%)	449 (92%)	38 (8%)	12	36
2	B	876/1083 (81%)	860 (98%)	16 (2%)	59	77
3	D	139/815 (17%)	136 (98%)	3 (2%)	52	71
3	d	146/815 (18%)	145 (99%)	1 (1%)	84	90
4	E	480/657 (73%)	466 (97%)	14 (3%)	42	64
4	e	475/657 (72%)	463 (98%)	12 (2%)	47	68
5	F	329/574 (57%)	311 (94%)	18 (6%)	21	47
5	f	322/574 (56%)	314 (98%)	8 (2%)	47	68
6	G	132/322 (41%)	124 (94%)	8 (6%)	18	44
7	H	178/270 (66%)	172 (97%)	6 (3%)	37	60
8	I	106/235 (45%)	106 (100%)	0	100	100
8	i	107/235 (46%)	107 (100%)	0	100	100
9	J	79/154 (51%)	72 (91%)	7 (9%)	9	30
9	j	83/154 (54%)	82 (99%)	1 (1%)	71	83
10	L	71/141 (50%)	66 (93%)	5 (7%)	15	40
10	l	98/141 (70%)	97 (99%)	1 (1%)	76	86
11	P	153/293 (52%)	151 (99%)	2 (1%)	69	81
12	c	113/833 (14%)	111 (98%)	2 (2%)	59	77
13	k	87/182 (48%)	87 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
14	m	80/106 (76%)	73 (91%)	7 (9%)	10	31
All	All	4541/9906 (46%)	4392 (97%)	149 (3%)	41	61

All (149) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	341	TRP
1	A	353	LEU
1	A	395	ASP
1	A	397	LEU
1	A	400	GLU
1	A	404	MET
1	A	408	LEU
1	A	415	ILE
1	A	416	TRP
1	A	417	ASP
1	A	419	GLU
1	A	468	PHE
1	A	470	ILE
1	A	475	LEU
1	A	481	GLU
1	A	491	MET
1	A	500	LEU
1	A	501	THR
1	A	502	LEU
1	A	505	ASN
1	A	511	LEU
1	A	639	LEU
1	A	661	GLU
1	A	667	THR
1	A	711	ASP
1	A	727	THR
1	A	730	PHE
1	A	821	ARG
1	A	828	GLU
1	A	843	ARG
1	A	970	ASN
1	A	1052	ARG
1	A	1058	HIS
1	A	1059	GLN
1	A	1062	TYR
1	A	1073	GLN

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Mol	Chain	Res	Type
1	A	1165	LEU
1	A	1203	GLU
2	B	21	GLU
2	B	24	ARG
2	B	71	ARG
2	B	140	GLU
2	B	184	ASN
2	B	225	TYR
2	B	262	MET
2	B	266	THR
2	B	431	LEU
2	B	488	PHE
2	B	559	LYS
2	B	603	LYS
2	B	638	ARG
2	B	640	VAL
2	B	771	VAL
2	B	818	THR
3	D	965	ILE
3	D	1053	GLN
3	D	1054	ARG
4	E	258	ASN
4	E	268	HIS
4	E	270	ASP
4	E	274	TYR
4	E	278	ASP
4	E	280	ARG
4	E	326	ASN
4	E	327	ASN
4	E	519	GLU
4	E	522	ASP
4	E	593	PHE
4	E	761	LEU
4	E	774	MET
4	E	775	THR
5	F	86	PHE
5	F	91	PHE
5	F	94	PHE
5	F	124	ARG
5	F	258	ARG
5	F	261	THR
5	F	271	VAL

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Mol	Chain	Res	Type
5	F	280	ILE
5	F	301	VAL
5	F	317	LEU
5	F	326	HIS
5	F	332	PHE
5	F	340	ILE
5	F	348	THR
5	F	354	ARG
5	F	368	THR
5	F	397	GLN
5	F	427	LEU
6	G	41	ASP
6	G	81	ASP
6	G	143	VAL
6	G	147	ARG
6	G	153	LYS
6	G	181	TRP
6	G	182	GLU
6	G	183	ILE
7	H	27	ASP
7	H	33	ARG
7	H	36	THR
7	H	160	ILE
7	H	161	LYS
7	H	162	THR
9	J	116	LEU
9	J	123	LEU
9	J	156	SER
9	J	164	SER
9	J	174	CYS
9	J	177	LYS
9	J	192	LYS
10	L	79	ASP
10	L	104	ARG
10	L	108	SER
10	L	113	VAL
10	L	114	LYS
11	P	193	ASN
11	P	280	PHE
12	c	24	ASP
12	c	106	VAL
3	d	951	ASP

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Mol	Chain	Res	Type
4	e	243	LEU
4	e	258	ASN
4	e	268	HIS
4	e	270	ASP
4	e	277	ASP
4	e	282	LEU
4	e	365	ARG
4	e	436	ASP
4	e	438	LEU
4	e	512	ASP
4	e	516	ILE
4	e	663	ARG
5	f	253	TYR
5	f	261	THR
5	f	272	VAL
5	f	322	ASP
5	f	323	VAL
5	f	326	HIS
5	f	356	THR
5	f	421	ASP
9	j	114	THR
10	l	114	LYS
14	m	31	LEU
14	m	55	ASP
14	m	58	GLU
14	m	77	ARG
14	m	84	GLU
14	m	90	ILE
14	m	91	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (71) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	401	ASN
1	A	472	ASN
1	A	489	GLN
1	A	590	GLN
1	A	860	ASN
1	A	896	GLN
2	B	30	HIS
2	B	137	HIS
2	B	176	HIS

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Mol	Chain	Res	Type
2	B	183	GLN
2	B	184	ASN
2	B	235	HIS
2	B	348	GLN
2	B	432	HIS
2	B	439	HIS
2	B	450	GLN
2	B	509	ASN
2	B	521	GLN
2	B	644	GLN
2	B	652	GLN
2	B	750	GLN
2	B	813	ASN
2	B	882	HIS
2	B	908	GLN
2	B	916	ASN
3	D	875	GLN
3	D	936	GLN
3	D	1053	GLN
4	E	254	ASN
4	E	256	HIS
4	E	258	ASN
4	E	268	HIS
4	E	327	ASN
4	E	351	GLN
4	E	616	HIS
4	E	640	ASN
4	E	758	HIS
4	E	800	GLN
5	F	59	HIS
5	F	79	ASN
5	F	89	GLN
5	F	119	ASN
5	F	221	GLN
5	F	270	ASN
5	F	273	GLN
5	F	275	ASN
6	G	48	HIS
7	H	145	HIS
8	I	21	GLN
8	I	38	GLN
8	I	98	GLN

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Mol	Chain	Res	Type
9	J	210	ASN
10	L	117	GLN
11	P	189	ASN
11	P	193	ASN
3	d	912	ASN
3	d	943	GLN
3	d	1069	ASN
4	e	246	HIS
4	e	294	ASN
4	e	336	HIS
4	e	616	HIS
5	f	325	ASN
8	i	81	GLN
9	j	160	GLN
9	j	173	HIS
10	l	73	ASN
10	l	105	HIS
10	l	119	HIS
14	m	70	HIS
14	m	107	ASN

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 monosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

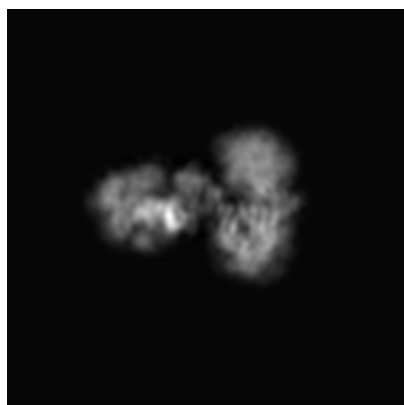
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-31114. These allow visual inspection of the internal detail of the map and identification of artifacts.

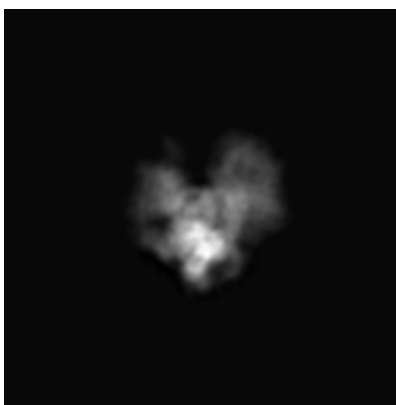
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

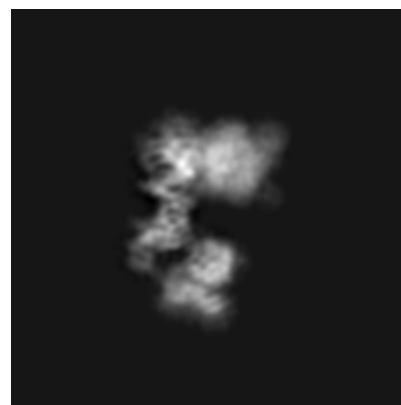
6.1.1 Primary map



X



Y

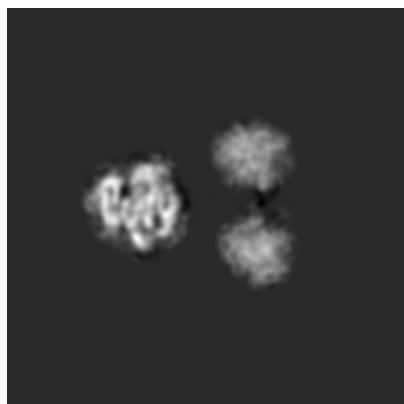


Z

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

6.2 Central slices [i](#)

6.2.1 Primary map



X Index: 160



Y Index: 160



Z Index: 160

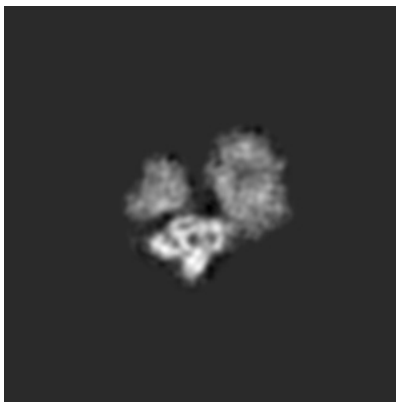
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

6.3.1 Primary map



X Index: 131



Y Index: 205

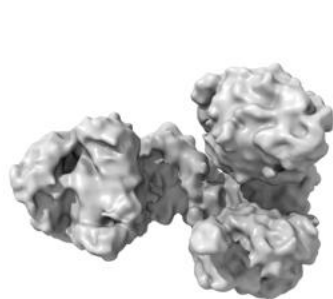


Z Index: 155

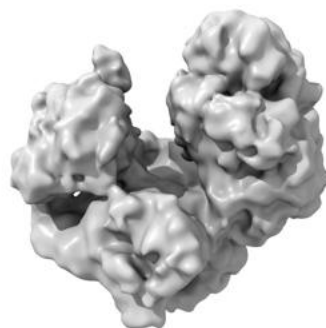
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

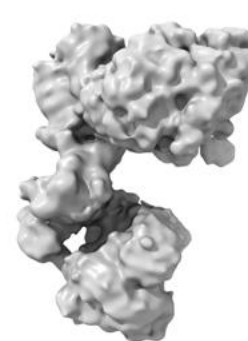
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0062. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

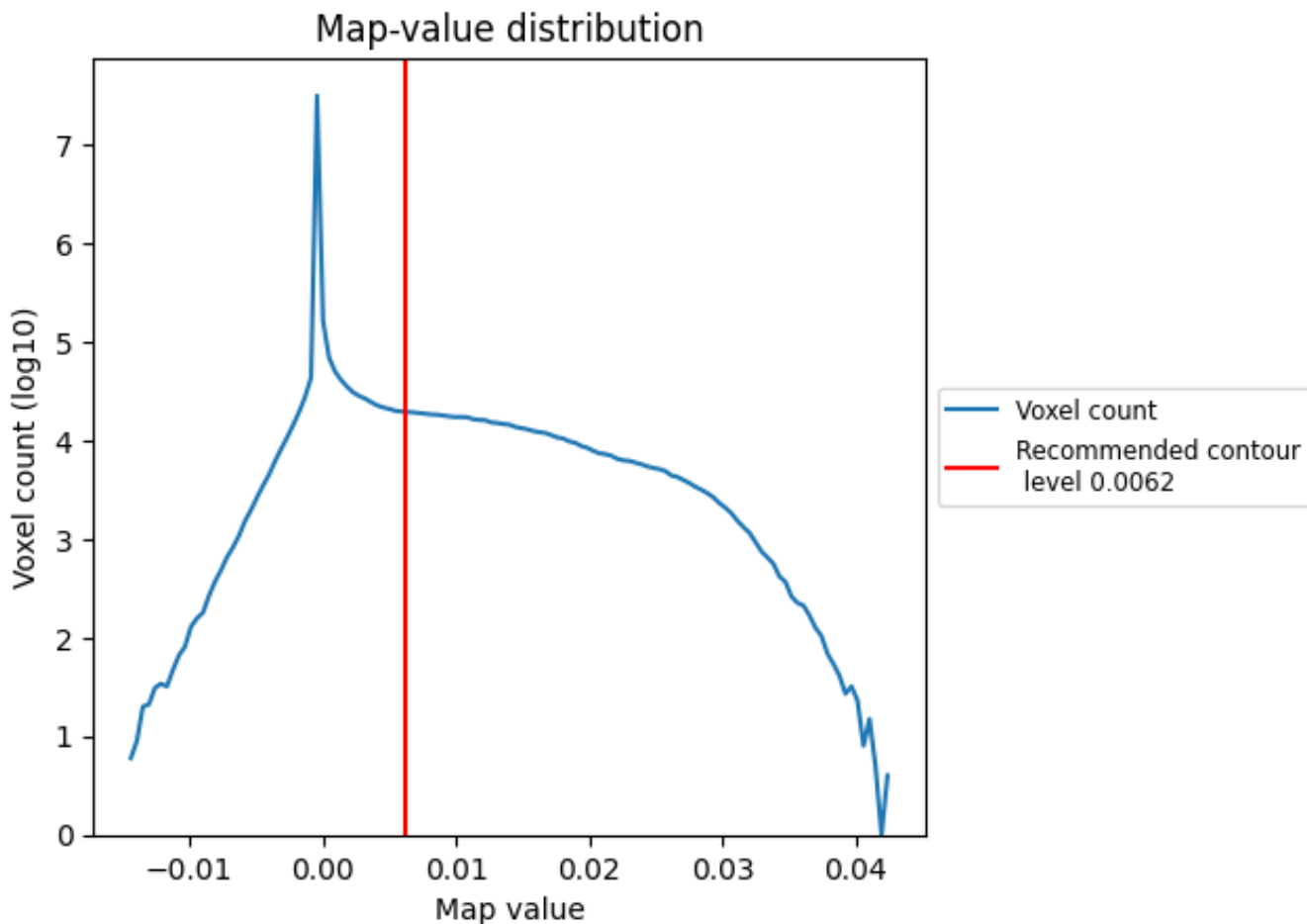
6.5 Mask visualisation

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

7 Map analysis [i](#)

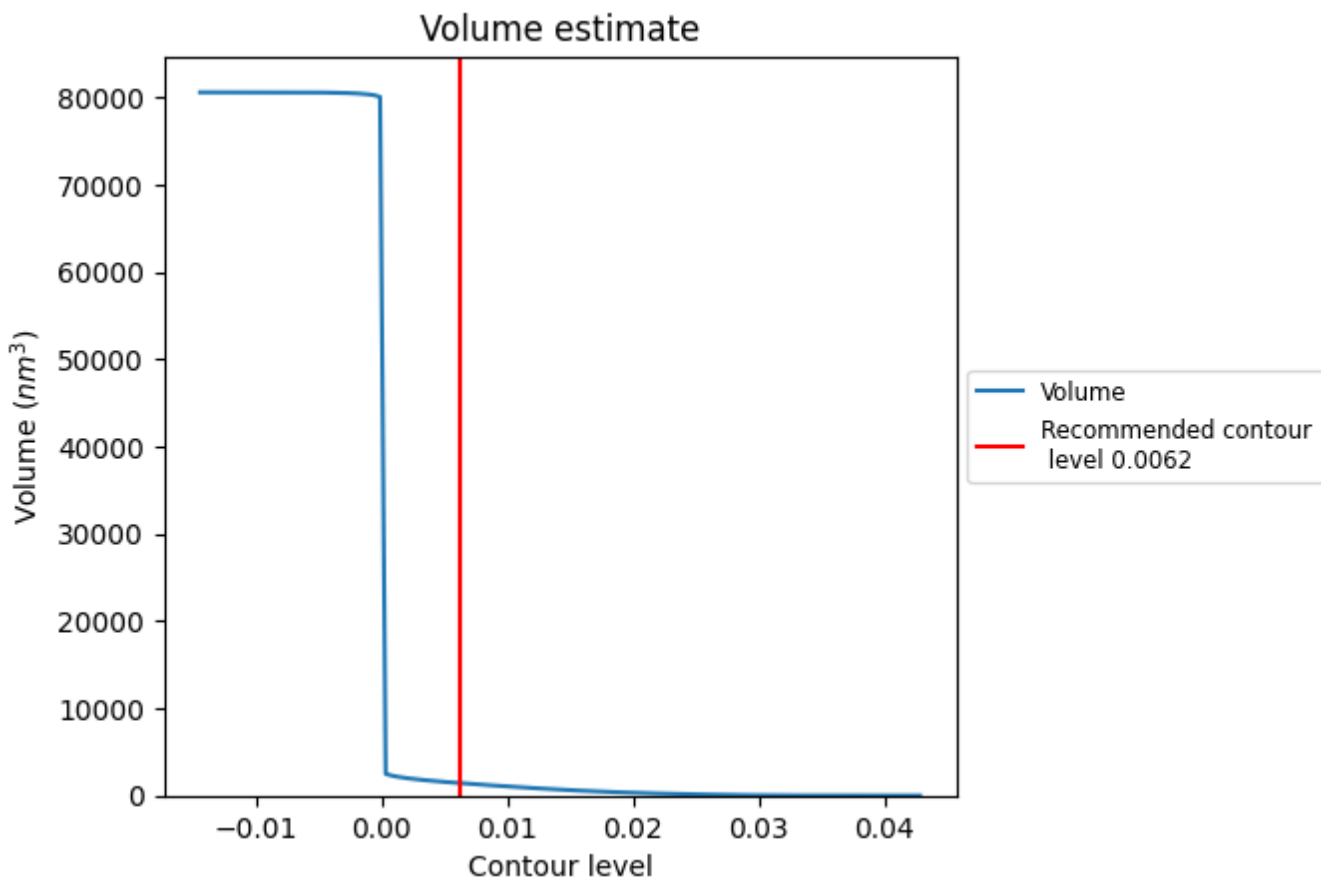
This section contains the results of statistical analysis of the map.

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.

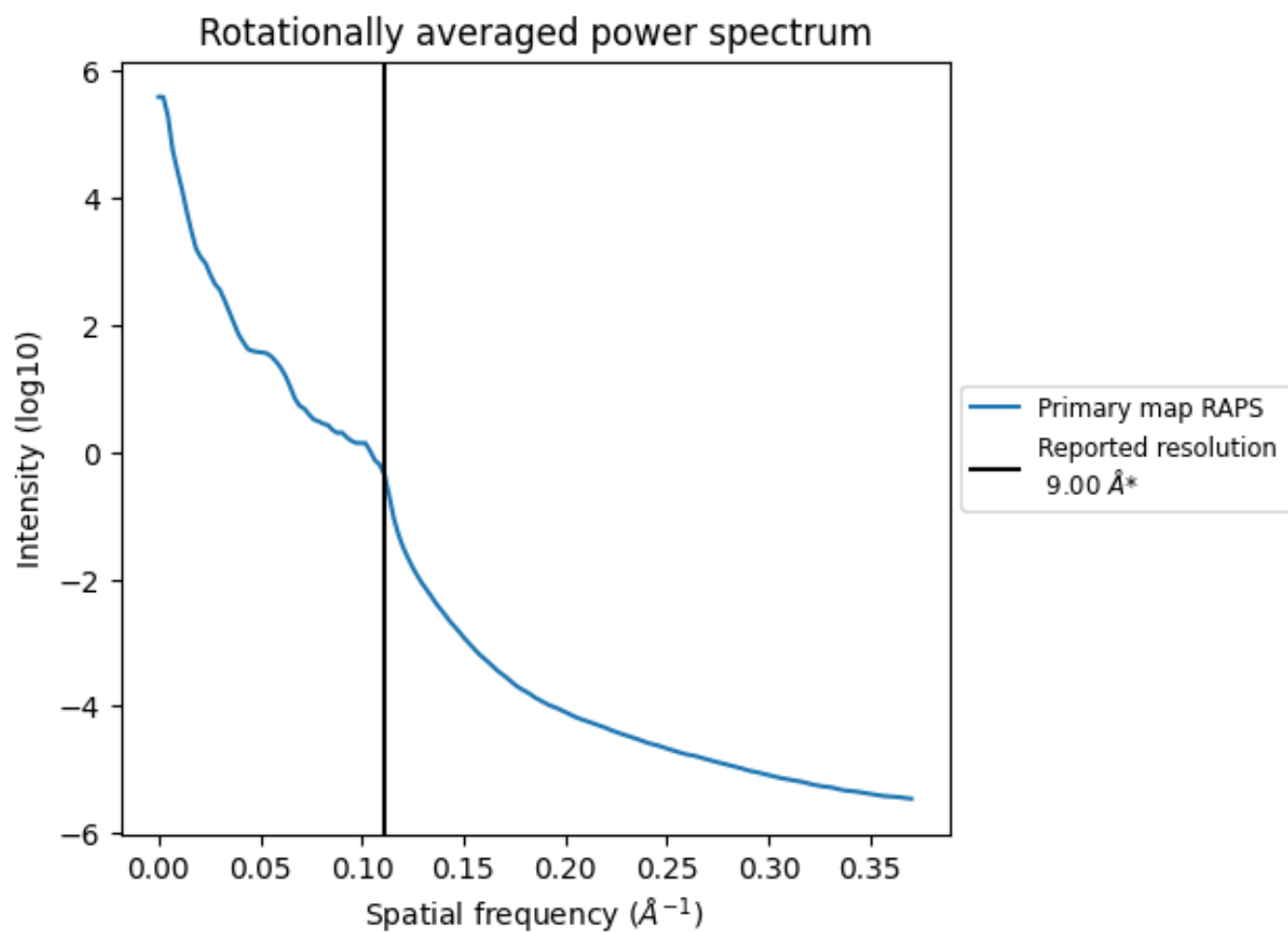
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1436 nm³; this corresponds to an approximate mass of 1297 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 i



*Reported resolution corresponds to spatial frequency of 0.111 Å⁻¹

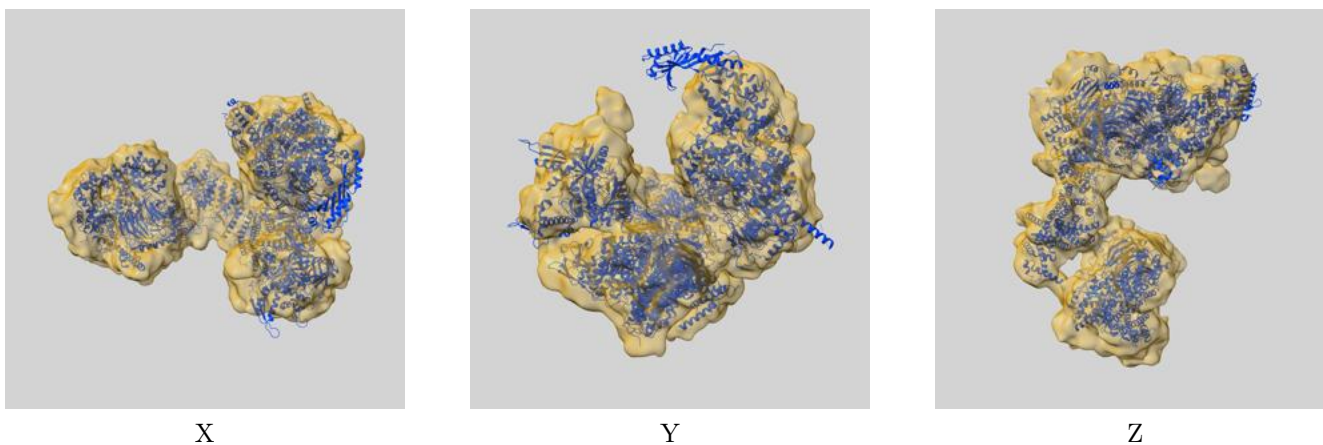
8 Fourier-Shell correlation

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

9 Map-model fit [i](#)

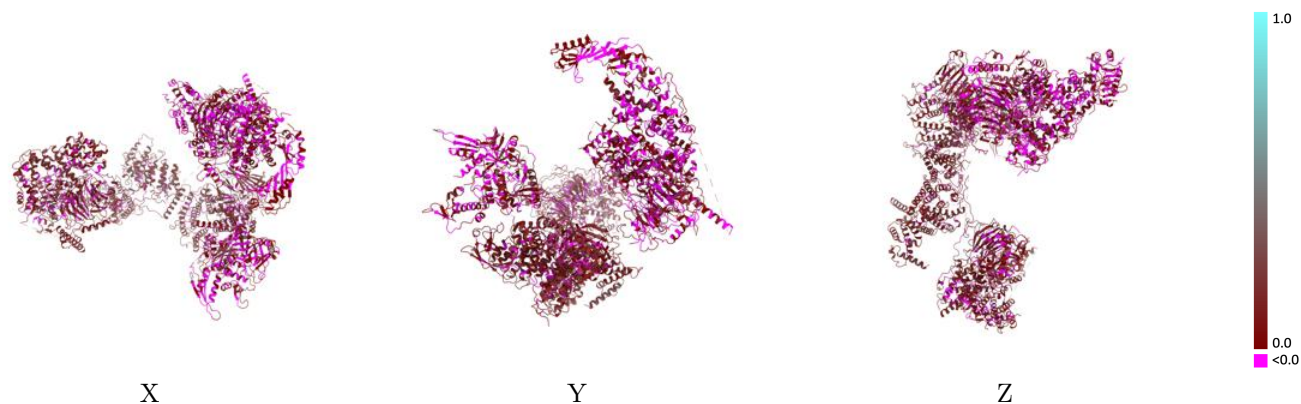
This section contains information regarding the fit between EMDB map EMD-31114 and PDB model 7EGE. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



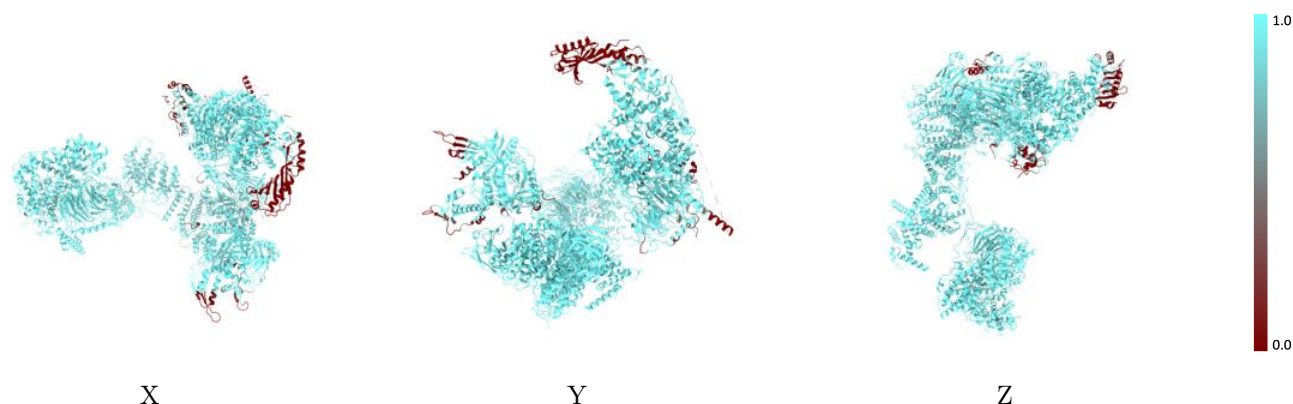
The images above show the 3D surface view of the map at the recommended contour level 0.0062 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



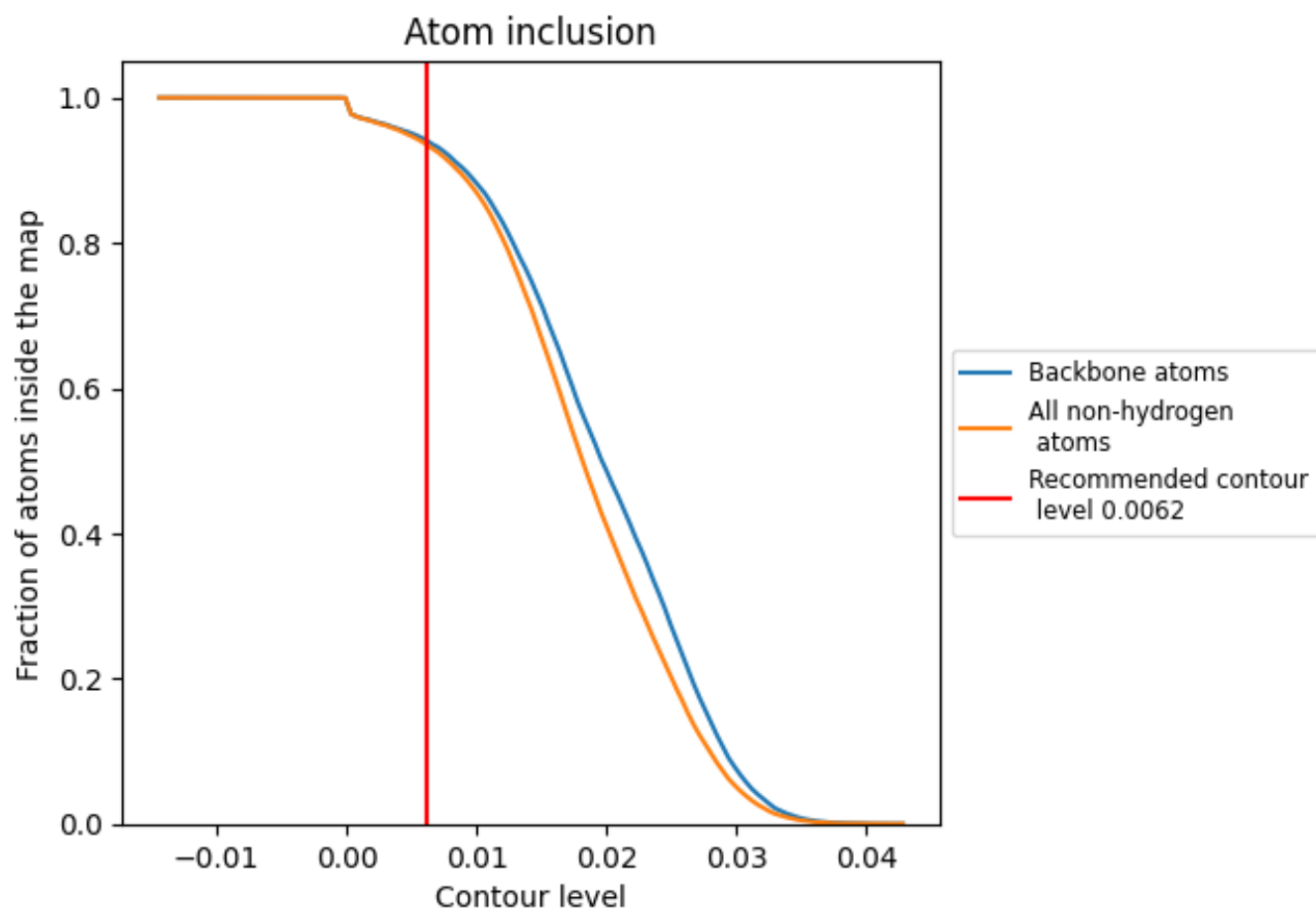
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (0.0062).











































9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 94% 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 (0.0062) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.9350	 0.0780
A	 0.8706	 0.0530
B	 0.9944	 0.1120
D	 0.9879	 0.1000
E	 0.9972	 0.0960
F	 0.9906	 0.1180
G	 0.9308	 0.0470
H	 0.9893	 0.1270
I	 1.0000	 0.1280
J	 1.0000	 0.0770
L	 1.0000	 0.1190
P	 0.2663	 -0.0110
c	 0.9626	 0.0470
d	 0.8667	 0.0310
e	 0.8610	 0.0280
f	 0.9881	 0.1120
i	 0.9989	 0.0490
j	 1.0000	 0.0410
k	 0.9792	 0.0440
l	 0.9884	 0.0310
m	 0.9957	 0.0160

