



## wwPDB EM Validation Summary Report ⓘ

Oct 14, 2024 – 03:05 PM JST

PDB ID : 7CN2  
EMDB ID : EMD-30414  
Title : Subparticle refinement of human papillomavirus type 16 pseudovirus in complex with H16.001 Fab  
Authors : He, M.Z.; Li, S.W.  
Deposited on : 2020-07-29  
Resolution : 3.43 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](mailto: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>.

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

EMDB validation analysis : 0.0.1.dev113  
MolProbity : 4.02b-467  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
MapQ : 1.9.13  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

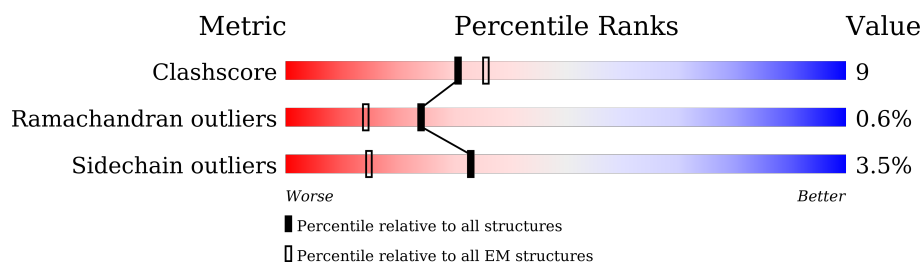
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*ELECTRON MICROSCOPY*

The reported resolution of this entry is 3.43 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)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

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  $\geq 3$ , 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	L	110	<div> <div>15%</div> <div>76%</div> <div>22%</div> <div>.</div> </div>
1	g	110	<div> <div>25%</div> <div>94%</div> <div>6%</div> </div>
1	i	110	<div> <div>26%</div> <div>91%</div> <div>9%</div> </div>
1	j	110	<div> <div>26%</div> <div>93%</div> <div>7%</div> </div>
1	k	110	<div> <div>21%</div> <div>92%</div> <div>8%</div> </div>
1	m	110	<div> <div>59%</div> <div>94%</div> <div>6%</div> </div>
2	G	120	<div> <div>40%</div> <div>69%</div> <div>28%</div> <div>.</div> </div>
2	H	120	<div> <div>31%</div> <div>71%</div> <div>28%</div> <div>.</div> </div>

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Mol	Chain	Length	Quality of chain
2	I	120	
2	J	120	
2	K	120	
2	M	120	
3	A	505	
3	B	505	
3	C	505	
3	D	505	
3	E	505	
3	F	505	

## 2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 32841 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 The light chain variable region of H16.001 Fab fragment.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	g	110	Total	C	N	O	S	0	0
			808	505	135	164	4		
1	i	110	Total	C	N	O	S	0	0
			808	505	135	164	4		
1	j	110	Total	C	N	O	S	0	0
			808	505	135	164	4		
1	k	110	Total	C	N	O	S	0	0
			808	505	135	164	4		
1	m	110	Total	C	N	O	S	0	0
			808	505	135	164	4		
1	L	110	Total	C	N	O	S	0	0
			808	505	135	164	4		

- Molecule 2 is a protein called The heavy chain variable region of H16.001 Fab fragment.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	G	120	Total	C	N	O	S	0	0
			929	584	157	184	4		
2	I	120	Total	C	N	O	S	0	0
			929	584	157	184	4		
2	J	120	Total	C	N	O	S	0	0
			929	584	157	184	4		
2	K	120	Total	C	N	O	S	0	0
			929	584	157	184	4		
2	M	120	Total	C	N	O	S	0	0
			929	584	157	184	4		
2	H	120	Total	C	N	O	S	0	0
			929	584	157	184	4		

- Molecule 3 is a protein called Major capsid protein L1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	A	474	Total	C	N	O	S	0	0
			3725	2380	627	697	21		

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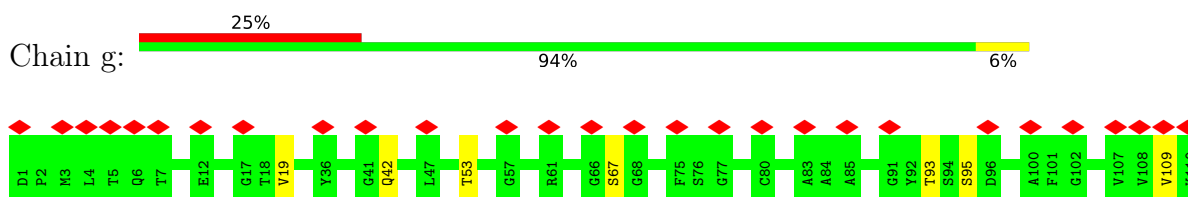
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Mol	Chain	Residues	Atoms					AltConf	Trace
3	B	466	Total	C	N	O	S	0	0
			3659	2336	615	687	21		
3	C	479	Total	C	N	O	S	0	0
			3764	2408	629	706	21		
3	D	478	Total	C	N	O	S	0	0
			3757	2404	628	704	21		
3	E	478	Total	C	N	O	S	0	0
			3757	2404	628	704	21		
3	F	478	Total	C	N	O	S	0	0
			3757	2404	628	704	21		

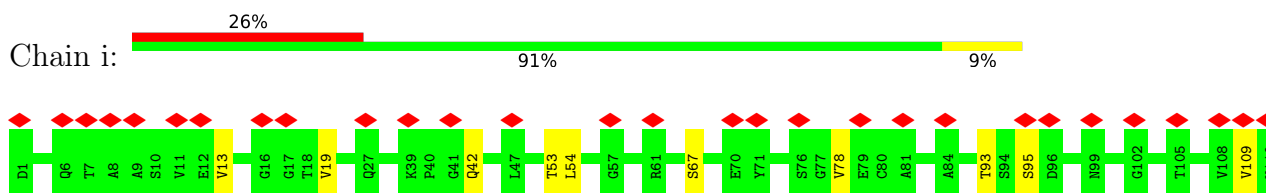
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

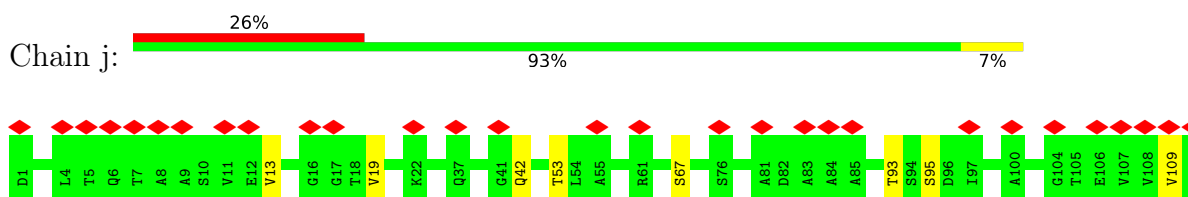
- Molecule 1: The light chain variable region of H16.001 Fab fragment



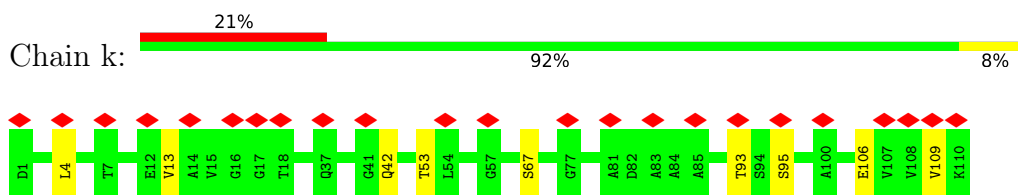
- Molecule 1: The light chain variable region of H16.001 Fab fragment



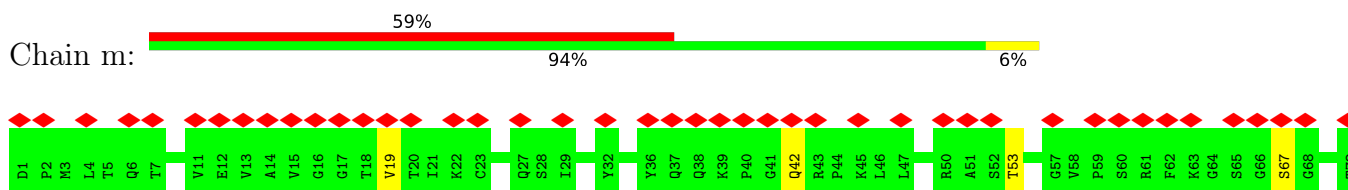
- Molecule 1: The light chain variable region of H16.001 Fab fragment

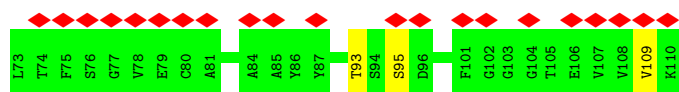


- Molecule 1: The light chain variable region of H16.001 Fab fragment

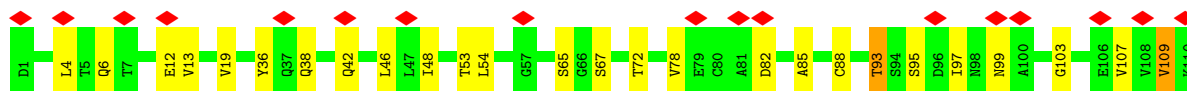
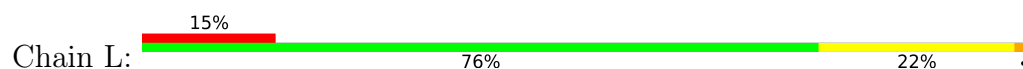


- Molecule 1: The light chain variable region of H16.001 Fab fragment

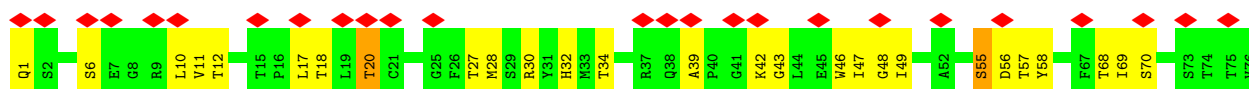




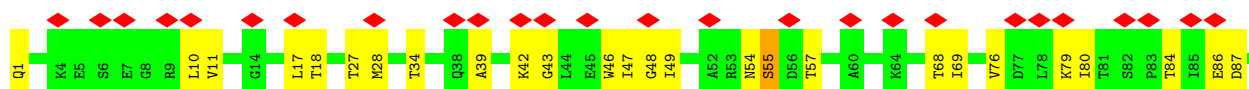
- Molecule 1: The light chain variable region of H16.001 Fab fragment



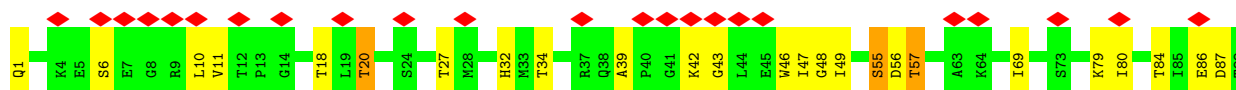
- Molecule 2: The heavy chain variable region of H16.001 Fab fragment



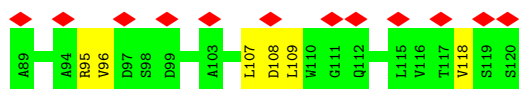
- Molecule 2: The heavy chain variable region of H16.001 Fab fragment

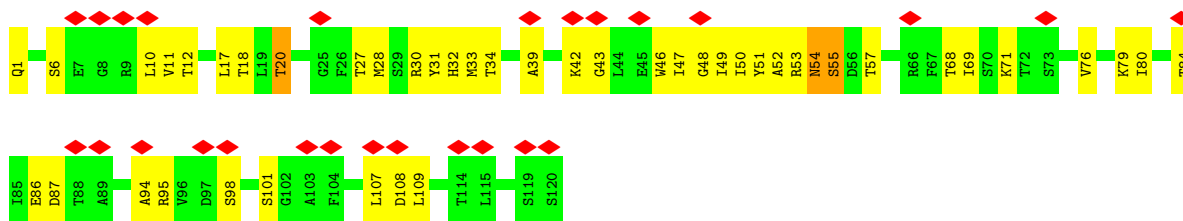


- Molecule 2: The heavy chain variable region of H16.001 Fab fragment

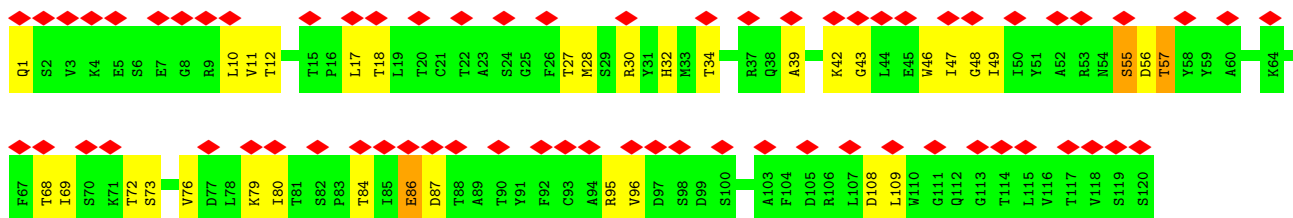


- Molecule 2: The heavy chain variable region of H16.001 Fab fragment

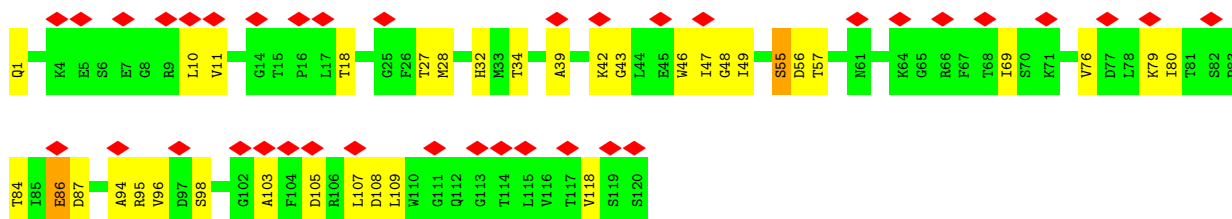




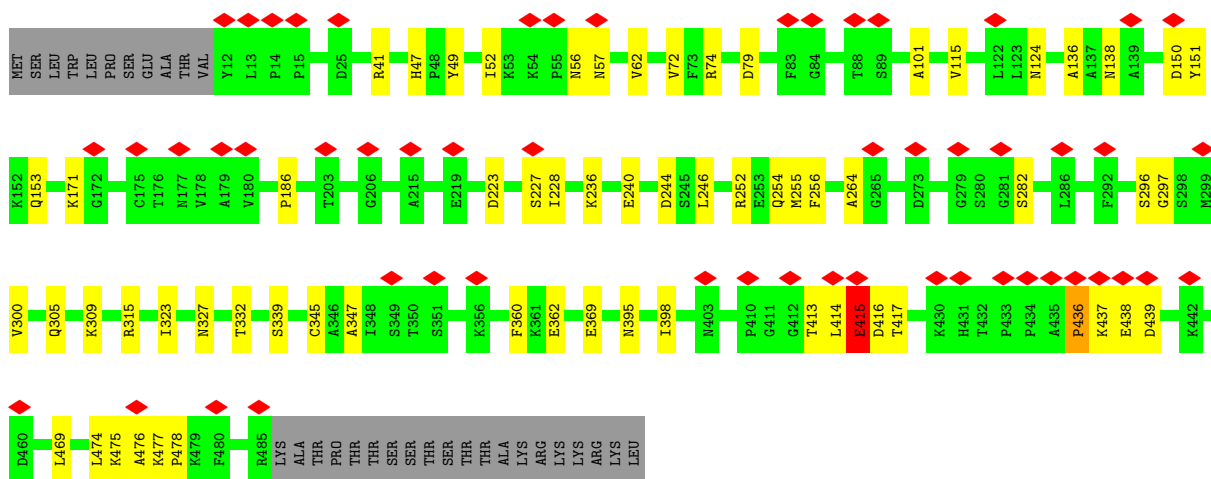
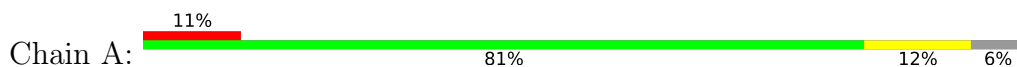
- Molecule 2: The heavy chain variable region of H16.001 Fab fragment



- Molecule 2: The heavy chain variable region of H16.001 Fab fragment

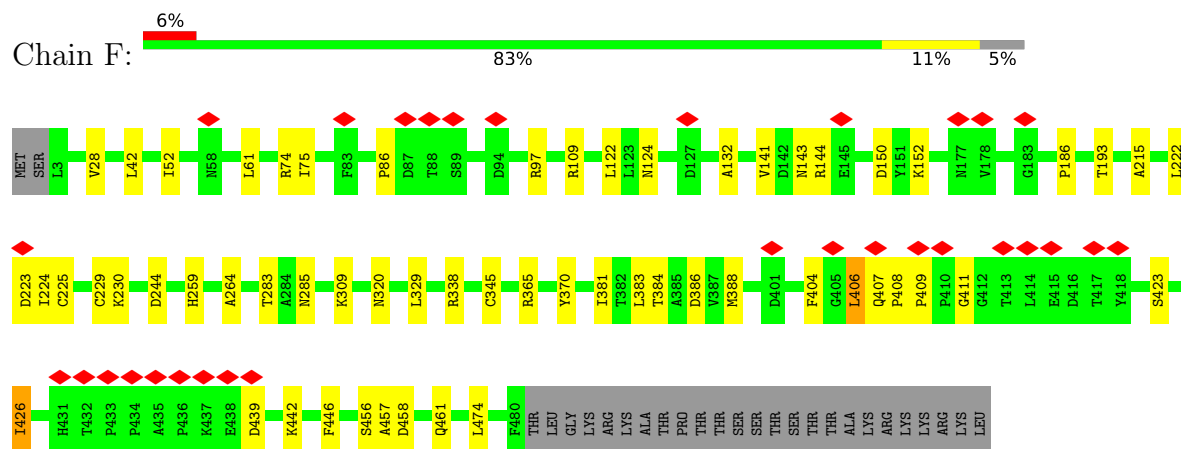


- Molecule 3: Major capsid protein L1



- Molecule 3: Major capsid protein L1





## 4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	274860	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose ( $e^-/\text{\AA}^2$ )	30	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	17.827	Depositor
Minimum map value	-11.804	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.434	Depositor
Recommended contour level	3	Depositor
Map size ( $\text{\AA}$ )	866.304, 866.304, 866.304	wwPDB
Map dimensions	768, 768, 768	wwPDB
Map angles ( $^\circ$ )	90.0, 90.0, 90.0	wwPDB
Pixel spacing ( $\text{\AA}$ )	1.128, 1.128, 1.128	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	L	0.32	0/823	0.66	0/1115
1	g	0.32	0/823	0.66	0/1115
1	i	0.34	0/823	0.66	0/1115
1	j	0.34	0/823	0.68	0/1115
1	k	0.34	0/823	0.68	0/1115
1	m	0.34	0/823	0.68	0/1115
2	G	0.29	0/950	0.58	1/1292 (0.1%)
2	H	0.30	0/950	0.58	1/1292 (0.1%)
2	I	0.29	0/950	0.58	1/1292 (0.1%)
2	J	0.30	0/950	0.58	1/1292 (0.1%)
2	K	0.33	0/950	0.61	1/1292 (0.1%)
2	M	0.30	0/950	0.58	1/1292 (0.1%)
3	A	0.37	0/3827	0.65	2/5209 (0.0%)
3	B	0.37	0/3759	0.61	3/5116 (0.1%)
3	C	0.39	0/3869	0.58	0/5272
3	D	0.39	1/3862 (0.0%)	0.62	2/5262 (0.0%)
3	E	0.35	0/3862	0.58	1/5262 (0.0%)
3	F	0.38	0/3862	0.58	2/5262 (0.0%)
All	All	0.36	1/33679 (0.0%)	0.61	16/45825 (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
2	G	0	1
2	H	0	1
2	I	0	1
2	J	0	1
2	K	0	1
2	M	0	1
3	A	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	E	0	1
3	F	0	1
All	All	0	9

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	17	PRO	N-CD	-6.70	1.38	1.47

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

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	D	16	VAL	C-N-CD	-9.16	100.44	120.60
3	B	474	LEU	CA-CB-CG	7.64	132.88	115.30
3	B	441	LEU	CA-CB-CG	7.16	131.76	115.30
3	A	246	LEU	CA-CB-CG	6.90	131.17	115.30
3	D	17	PRO	CA-N-CD	6.35	120.58	111.70

There are no chirality outliers.

5 of 9 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	G	42	LYS	Peptide
2	I	42	LYS	Peptide
2	J	42	LYS	Peptide
2	K	42	LYS	Peptide
2	M	42	LYS	Peptide

## 5.2 Too-close contacts

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	808	0	786	22	0
1	g	808	0	786	0	0
1	i	808	0	786	0	0
1	j	808	0	786	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	k	808	0	786	0	0
1	m	808	0	786	0	0
2	G	929	0	906	28	0
2	H	929	0	906	27	0
2	I	929	0	906	25	0
2	J	929	0	906	18	0
2	K	929	0	906	50	0
2	M	929	0	906	30	0
3	A	3725	0	3647	43	0
3	B	3659	0	3574	43	0
3	C	3764	0	3679	61	0
3	D	3757	0	3672	55	0
3	E	3757	0	3672	48	0
3	F	3757	0	3672	42	0
All	All	32841	0	32068	454	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 9.

The worst 5 of 454 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)
2:K:46:TRP:NE1	2:K:49:ILE:HD11	1.31	1.36
2:K:46:TRP:HE1	2:K:49:ILE:CD1	1.38	1.33
2:K:46:TRP:CE2	2:K:49:ILE:HD11	1.67	1.29
2:H:34:THR:CG2	2:H:107:LEU:HD21	1.74	1.16
3:D:16:VAL:HB	3:D:17:PRO:HD2	1.24	1.09

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	L	108/110 (98%)	96 (89%)	11 (10%)	1 (1%)	14	46
1	g	108/110 (98%)	97 (90%)	10 (9%)	1 (1%)	14	46
1	i	108/110 (98%)	96 (89%)	11 (10%)	1 (1%)	14	46
1	j	108/110 (98%)	96 (89%)	11 (10%)	1 (1%)	14	46
1	k	108/110 (98%)	96 (89%)	11 (10%)	1 (1%)	14	46
1	m	108/110 (98%)	96 (89%)	11 (10%)	1 (1%)	14	46
2	G	118/120 (98%)	111 (94%)	7 (6%)	0	100	100
2	H	118/120 (98%)	111 (94%)	7 (6%)	0	100	100
2	I	118/120 (98%)	111 (94%)	7 (6%)	0	100	100
2	J	118/120 (98%)	111 (94%)	7 (6%)	0	100	100
2	K	118/120 (98%)	112 (95%)	6 (5%)	0	100	100
2	M	118/120 (98%)	111 (94%)	7 (6%)	0	100	100
3	A	472/505 (94%)	416 (88%)	53 (11%)	3 (1%)	22	54
3	B	464/505 (92%)	433 (93%)	30 (6%)	1 (0%)	44	74
3	C	477/505 (94%)	441 (92%)	31 (6%)	5 (1%)	13	44
3	D	476/505 (94%)	443 (93%)	28 (6%)	5 (1%)	12	42
3	E	476/505 (94%)	429 (90%)	46 (10%)	1 (0%)	44	74
3	F	476/505 (94%)	435 (91%)	38 (8%)	3 (1%)	22	54
All	All	4197/4410 (95%)	3841 (92%)	332 (8%)	24 (1%)	24	54

5 of 24 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	A	415	GLU
3	A	436	PRO
3	A	437	LYS
3	D	17	PRO
3	D	11	VAL

### 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	L	85/85 (100%)	80 (94%)	5 (6%)	16	44
1	g	85/85 (100%)	79 (93%)	6 (7%)	12	38
1	i	85/85 (100%)	76 (89%)	9 (11%)	5	23
1	j	85/85 (100%)	78 (92%)	7 (8%)	9	33
1	k	85/85 (100%)	77 (91%)	8 (9%)	7	27
1	m	85/85 (100%)	79 (93%)	6 (7%)	12	38
2	G	102/102 (100%)	88 (86%)	14 (14%)	3	15
2	H	102/102 (100%)	91 (89%)	11 (11%)	5	23
2	I	102/102 (100%)	92 (90%)	10 (10%)	6	26
2	J	102/102 (100%)	91 (89%)	11 (11%)	5	23
2	K	102/102 (100%)	89 (87%)	13 (13%)	3	17
2	M	102/102 (100%)	92 (90%)	10 (10%)	6	26
3	A	412/440 (94%)	411 (100%)	1 (0%)	92	96
3	B	405/440 (92%)	401 (99%)	4 (1%)	73	84
3	C	417/440 (95%)	411 (99%)	6 (1%)	62	79
3	D	416/440 (94%)	415 (100%)	1 (0%)	92	96
3	E	416/440 (94%)	414 (100%)	2 (0%)	86	92
3	F	416/440 (94%)	415 (100%)	1 (0%)	92	96
All	All	3604/3762 (96%)	3479 (96%)	125 (4%)	33	59

5 of 125 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	k	4	LEU
3	A	413	THR
2	K	55	SER
2	H	87	ASP
3	C	402	TRP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 48 such sidechains are listed below:

Mol	Chain	Res	Type
3	C	373	GLN
3	E	111	GLN
3	C	431	HIS
3	D	319	HIS

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Mol	Chain	Res	Type
3	E	461	GLN

### 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](#)

There are no ligands in this entry.

### 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.

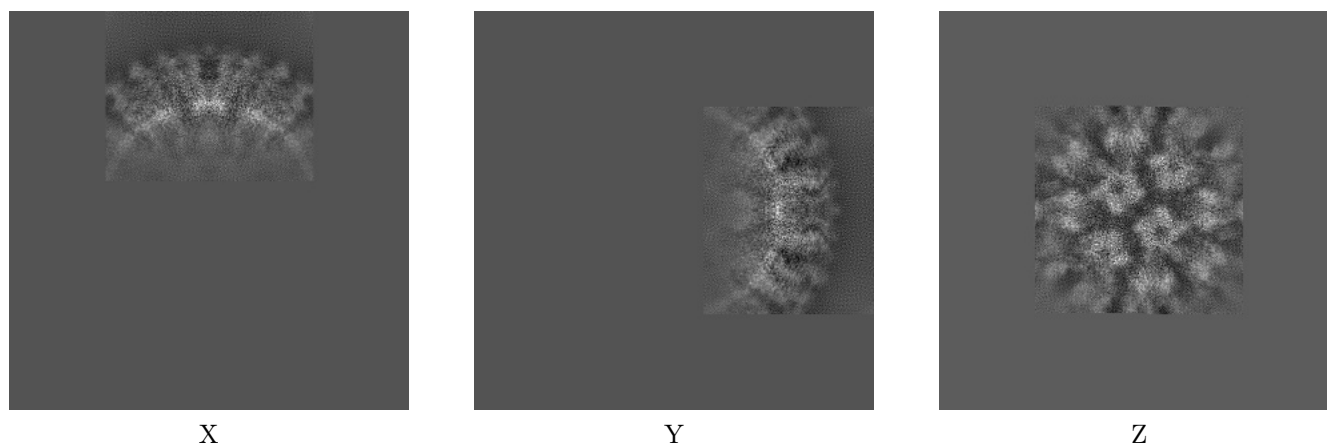
## 6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-30414. 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](#)

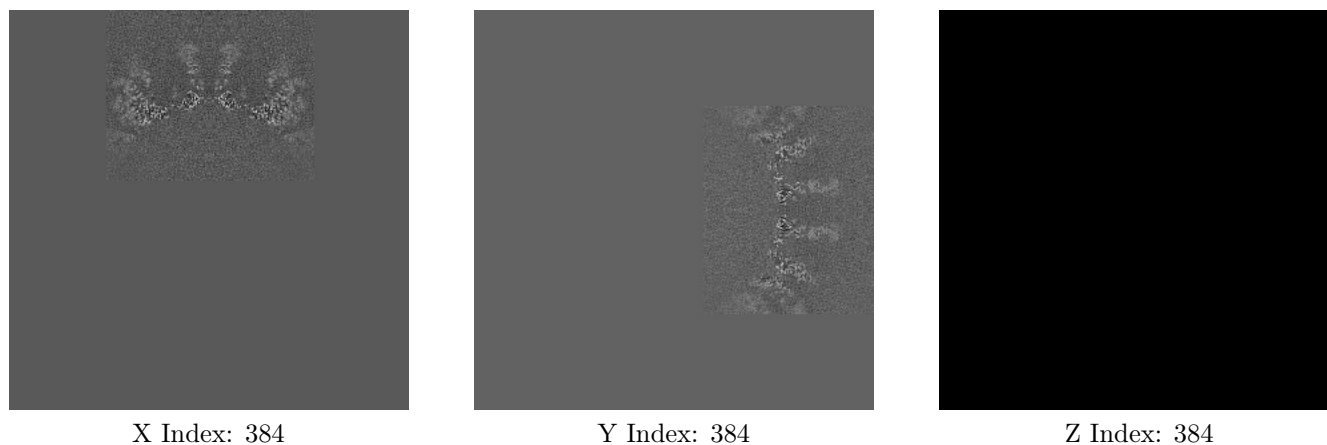
#### 6.1.1 Primary map



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

### 6.2 Central slices [i](#)

#### 6.2.1 Primary map



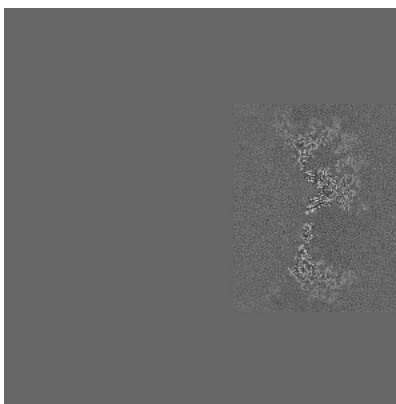
The images above show central slices of the map in three orthogonal directions.

## 6.3 Largest variance slices [i](#)

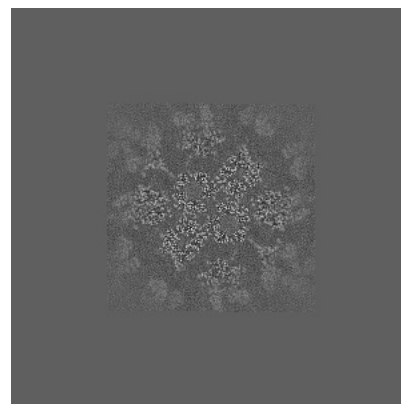
### 6.3.1 Primary map



X Index: 434



Y Index: 358

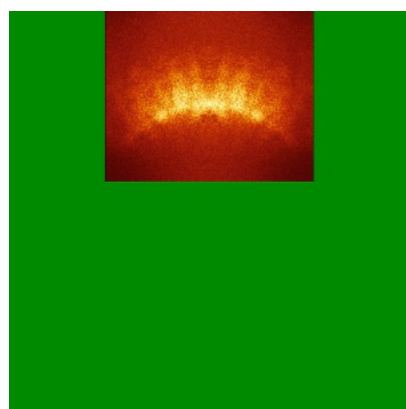


Z Index: 588

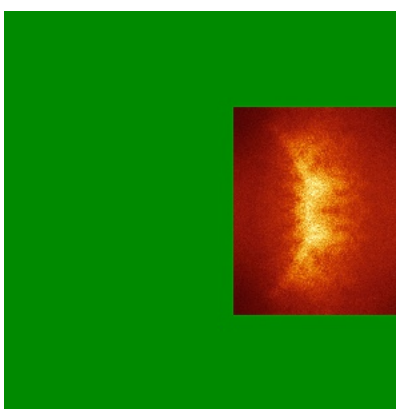
The images above show the largest variance slices of the map in three orthogonal directions.

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

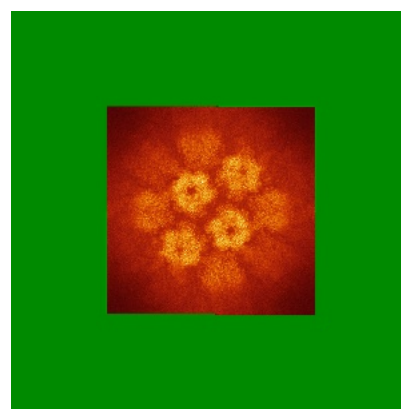
### 6.4.1 Primary map



X



Y

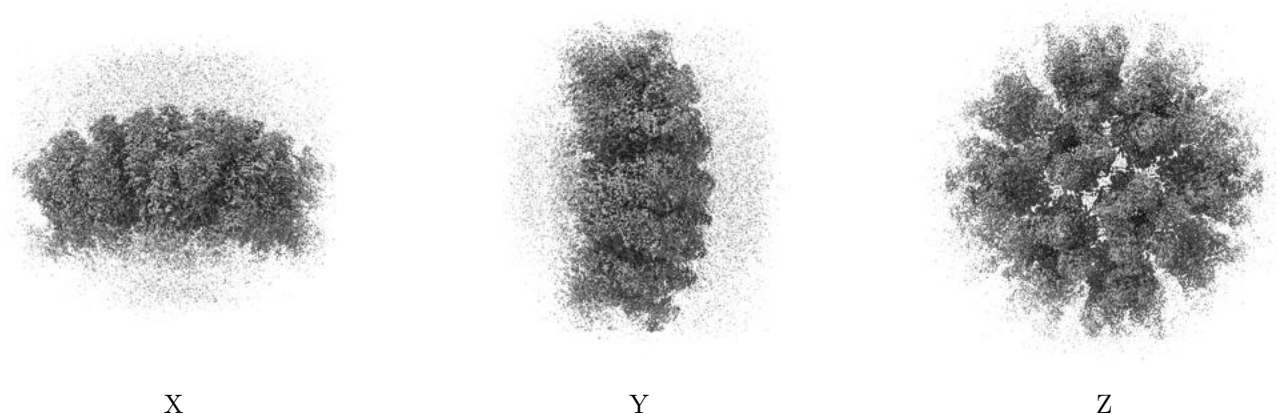


Z

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 [i](#)

### 6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 3.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

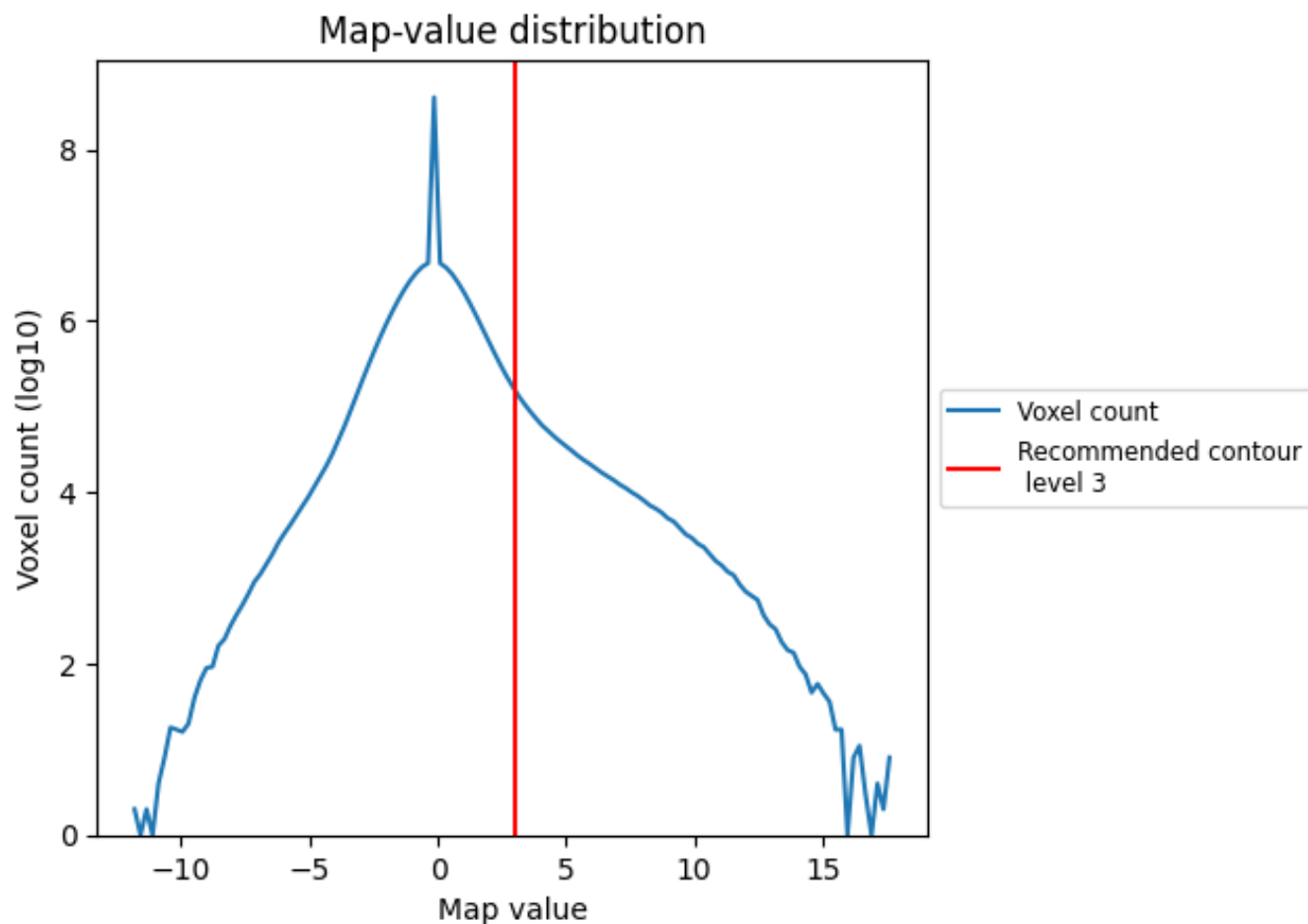
## 6.6 Mask visualisation [i](#)

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

## 7 Map analysis [i](#)

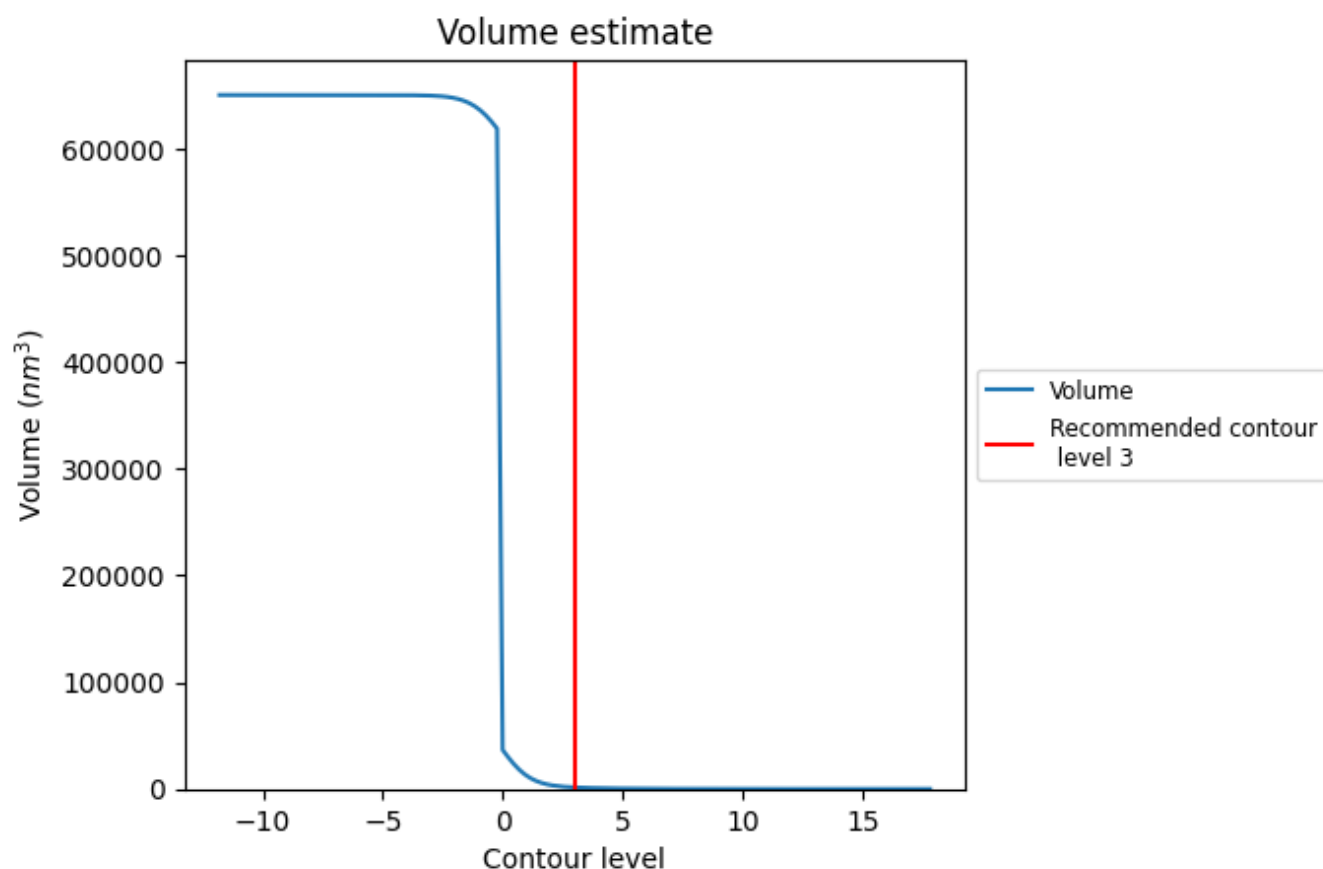
This section contains the results of statistical analysis of the map.

### 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.

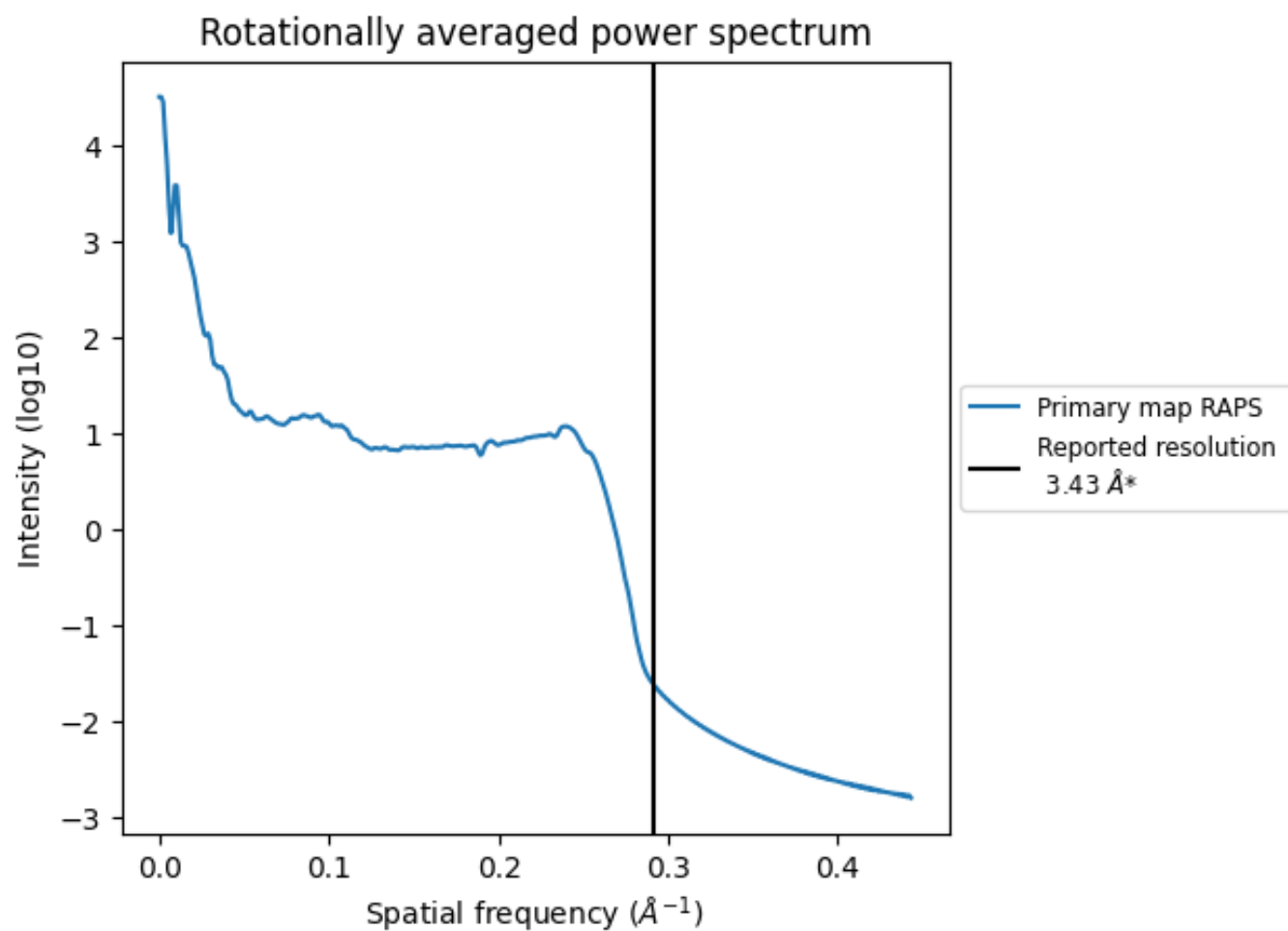
## 7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1436  $\text{nm}^3$ ; 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 ⓘ



\*Reported resolution corresponds to spatial frequency of 0.292 Å<sup>-1</sup>

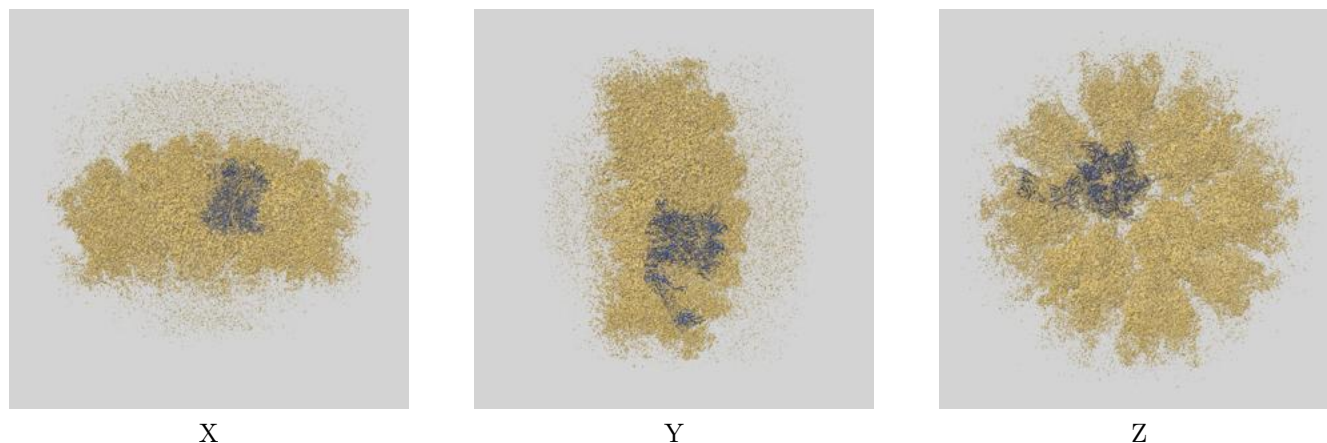
## 8 Fourier-Shell correlation ⓘ

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

## 9 Map-model fit [i](#)

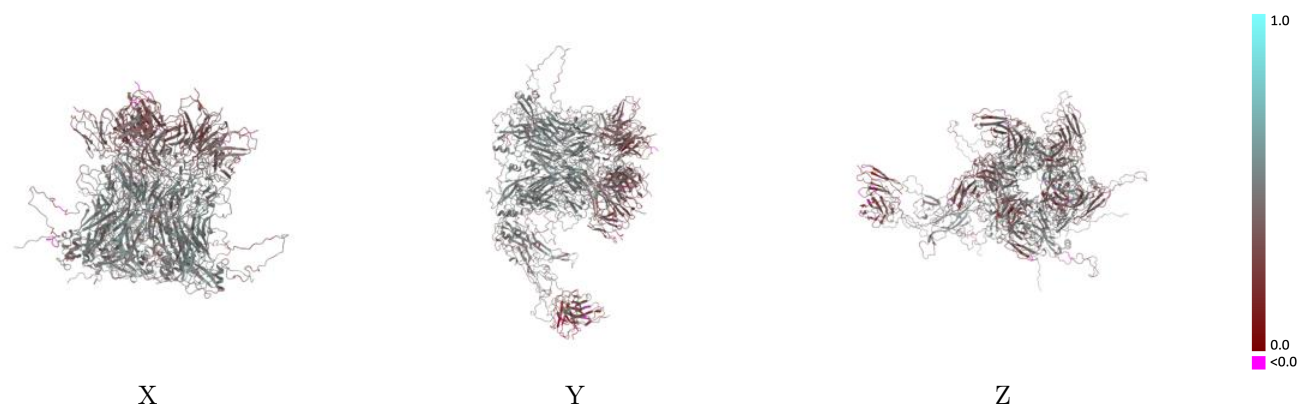
This section contains information regarding the fit between EMDB map EMD-30414 and PDB model 7CN2. Per-residue inclusion information can be found in section [3](#) on page [6](#).

### 9.1 Map-model overlay [i](#)



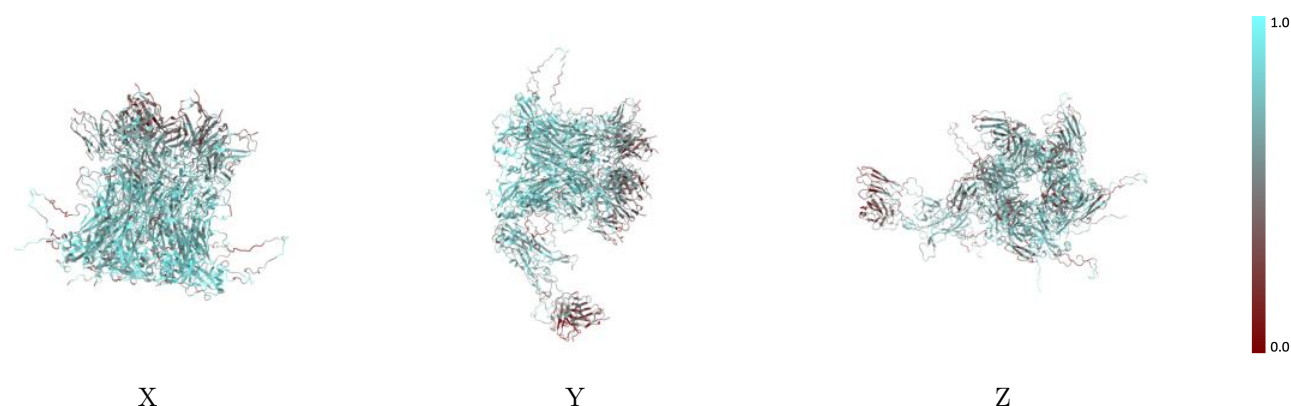
The images above show the 3D surface view of the map at the recommended contour level 3.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



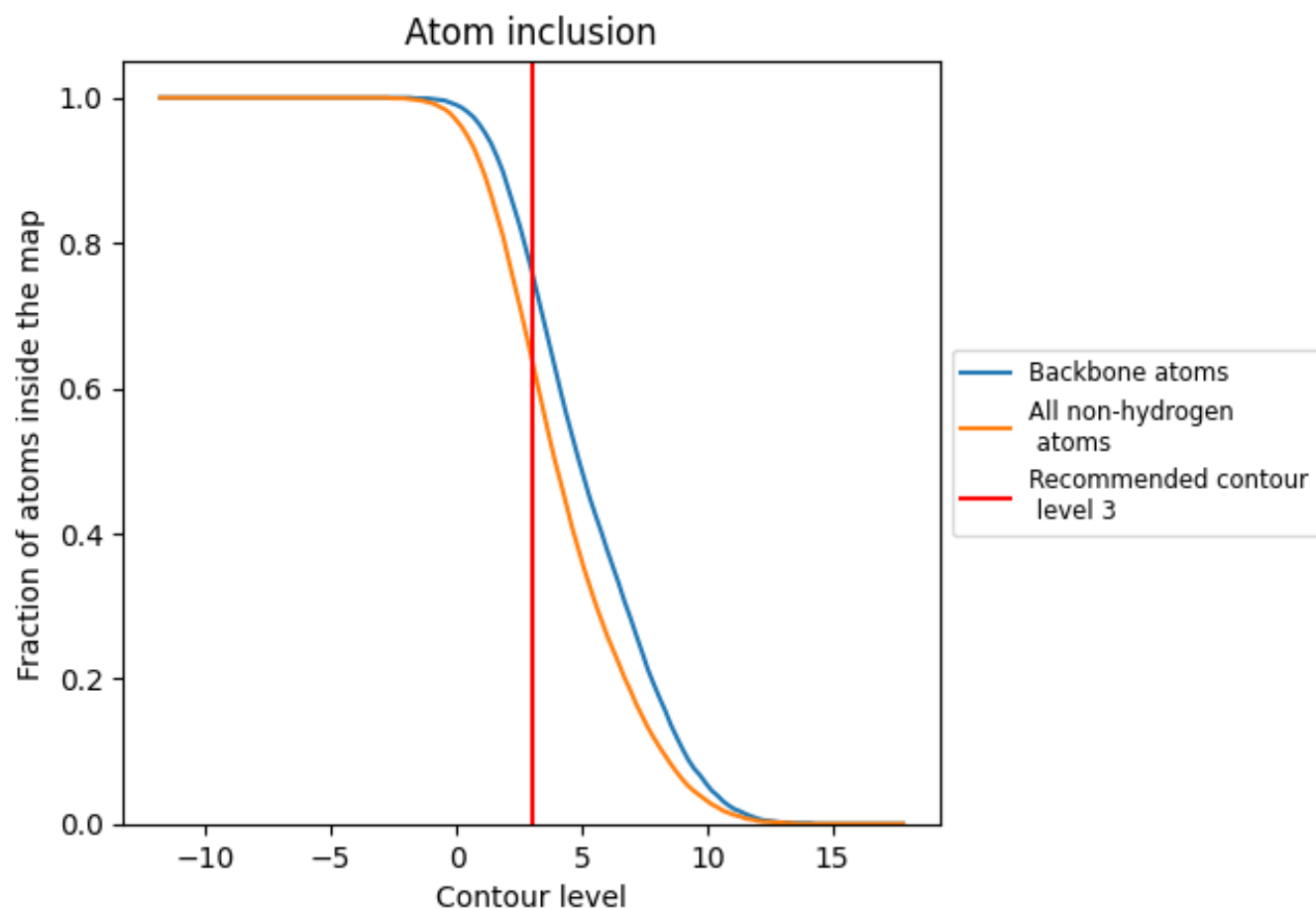
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (3).

## 9.4 Atom inclusion [i](#)



At the recommended contour level, 76% of all backbone atoms, 64% 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 (3) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	<div></div> 0.6430	<div></div> 0.4230
A	<div></div> 0.6360	<div></div> 0.4380
B	<div></div> 0.7140	<div></div> 0.4740
C	<div></div> 0.7340	<div></div> 0.4790
D	<div></div> 0.7350	<div></div> 0.4760
E	<div></div> 0.7020	<div></div> 0.4670
F	<div></div> 0.7170	<div></div> 0.4700
G	<div></div> 0.4920	<div></div> 0.3300
H	<div></div> 0.5300	<div></div> 0.3510
I	<div></div> 0.5090	<div></div> 0.3300
J	<div></div> 0.5100	<div></div> 0.3360
K	<div></div> 0.5660	<div></div> 0.3730
L	<div></div> 0.5770	<div></div> 0.3570
M	<div></div> 0.3630	<div></div> 0.2730
g	<div></div> 0.5350	<div></div> 0.3370
i	<div></div> 0.5400	<div></div> 0.3470
j	<div></div> 0.5230	<div></div> 0.3050
k	<div></div> 0.5880	<div></div> 0.3580
m	<div></div> 0.3340	<div></div> 0.2280

1.0

0.0

<0.0