

Full wwPDB EM Validation Report (i)

Dec 29, 2024 – 04:47 PM EST

PDB ID : 7U94

EMDB ID : EMD-26390

Title : SAAV pH 7.4 capsid structure Authors : Mietzsch, M.; McKenna, R.

Deposited on : 2022-03-10

Resolution : 3.25 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 (i) 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 (1)) 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)

 $MapQ \quad : \quad 1.9.13$

Ideal geometry (proteins) : Engh & Huber (2001) Ideal geometry (DNA, RNA) : Parkinson et al. (1996)

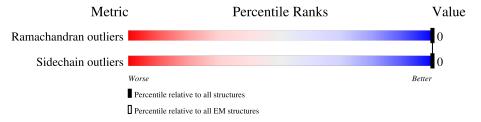
Validation Pipeline (wwPDB-VP) : 2.40

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.25 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 $(\# \mathrm{Entries})$	${ m EM\ structures} \ (\#{ m Entries})$
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 >=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 <=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	1	521	100%
1	2	521	100%
1	3	521	100%
1	4	521	100%
1	5	521	100%
1	6	521	100%
1	7	521	100%
1	8	521	100%
1	A	521	100%



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Mol	Chain	Length	Quality of chain
1	В	521	100%
1	С	521	100%
1	D	521	100%
1	Е	521	100%
1	F	521	100%
1	G	521	100%
1	Н	521	100%
1	I	521	100%
1	J	521	100%
1	K	521	
			100%
1	L	521	100%
1	M	521	100%
1	N	521	100%
1	О	521	100%
1	Р	521	100%
1	Q	521	100%
1	R	521	100%
1	S	521	100%
1	Т	521	100%
1	U	521	100%
1	V	521	100%
1	W	521	100%
1	X	521	100%
1	Y	521	100%
1	Z	521	100%
1		021	100%



	nuea jron	n previous	
Mol	Chain	Length	Quality of chain
1	a	521	100%
1	b	521	100%
1	c	521	100%
1	d	521	100%
1	е	521	100%
1	f	521	100%
1	g	521	100%
1	h	521	100%
1	i	521	100%
1	j	521	100%
1	k	521	100%
1	1	521	100%
1	m	521	100%
1	n	521	100%
1	О	521	100%
1	p	521	100%
1	q	521	100%
1	r	521	100%
1	S	521	100%
1	t	521	100%
1	u	521	100%
1	V	521	100%
1	W	521	100%
1		521	
	X		100%
1	У	521	100%



Mol	Chain	Length	Quality of chain
1	Z	521	100%



2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 245460 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 Capsid protein.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mol	Chain	Residues		At	oms			AltConf	Trace
1 B 521 Total One of the content of	1	٨	F01	Total	С	N	О	S	0	0
1 B 521 4091 2588 701 787 15 0 0 1 C 521 Total C N O S 0 0 1 D 521 Total C N O S 0 0 1 E 521 Total C N O S 0 0 1 E 521 Total C N O S 0 0 1 F 521 Total C N O S 0 0 1 F 521 Total C N O S 0 0 1 G 521 Total C N O S 0 0 1 H 521 Total C N O S 0 0 1 H 521 Total C N O S 0 0 1 J 521 Total	1	A	321	4091	2588	701	787	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	F01	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Б	521	4091	2588	701	787	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	C	5 91	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		321	4091	2588	701	787	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	ע	921	4091	2588	701	787	15	U	U
1 F 521 Total C N O S A091 2588 701 787 15 0 0 1 G 521 Total C N O S A091 2588 701 787 15 0 0 1 G 521 Total C N O S A091 2588 701 787 15 0 0 1 H 521 Total C N O S A091 2588 701 787 15 0 0 1 I 521 Total C N O S A091 2588 701 787 15 0 0 1 J 521 Total C N O S A091 2588 701 787 15 0 0 1 K 521 Total C N O S A091 787 15 0 0 1 K 521 Total C N O S A091 787 15 0 0 1 L 521 Total C N O S A091 787 15 0 0 1 M 521 Total C N O S A091 787 15 0 0 1 M 521 Total C N O S A091 787 15 0 0 1 N 521 Total C N O S A091 787 15 0 0 1 N 521 Total C N O S A091 787 15 0 0 1 O 521 <	1	E	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	12	921	4091	2588	701	787	15	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Ľ	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Г	921	4091	2588	701	787	15	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	С	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	G	921	4091	2588	701	787	15	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	П	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	11	521	4091	2588	701	787			
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Т	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	321	4091	2588	701	787		0	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Ţ	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	9	321	4091	2588	701	787	15	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	I/	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	IX	921	4091	2588	701	787	15	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Т	591	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	ш	321	4091	2588	701	787		0	0
1 N 521 Total C N O S 4091 2588 701 787 15 0 0 1 O 521 Total C N O S 4091 2588 701 787 15 0 0 1 P 521 Total C N O S 4091 2588 701 787 15 0 0 1 P 521 Total C N O S 4091 2588 701 787 15 0 0 1 O 521 Total C N O S 701 787 15 0 0 1 O 521 Total C N O S 701 787 15 0 0	1	М	591	Total	С	N	О	S	0	0
1 N 521 4091 2588 701 787 15 0 0 1 O 521 Total C N O S 0 0 1 P 521 Total C N O S 0 0 1 O 521 Total C N O S 0 0 1 O 521 Total C N O S 0 0	1	101	521						U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	N	591	Total	С	N	O	\mathbf{S}	0	0
1 O 521 4091 2588 701 787 15 0 0 1 P 521 Total C N O S 0 0 1 O 521 Total C N O S 0 0	1	11	521	4091	2588	701	787		U	U
1 P 521 Total C N O S 0 0 1 O 521 Total C N O S 0 0	1	0	591						0	0
1 P 521 4091 2588 701 787 15 0 0 1 O 521 Total C N O S 0 0			021	4091	2588	701	787		0	
1 O 521 Total C N O S 0 0	1	P	591	Total	С	N	О	S	0	0
		1	021	4091			787		U	U
4091 2588 701 787 15	1	0	591		С			S	0	0
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	021	4091	2588	701	787	15		



Mol	Chain	$oxed{ egin{array}{c} \mathbf{Residues} \end{array} }$	<i>yc</i>	At	oms			AltConf	Trace
			Total	C	N	0	S		
1	R	521	4091	2588	701	787	15	0	0
	~		Total	C	N	0	S		_
1	S	521	4091	2588	701	787	15	0	0
		701	Total	С	N	О	S		
1	T	521	4091	2588	701	787	15	0	0
1	TT	F01	Total	С	N	О	S	0	0
1	U	521	4091	2588	701	787	15	0	0
1	V	F01	Total	С	N	О	S	0	0
1	V	521	4091	2588	701	787	15	U	0
1	W	521	Total	С	N	О	S	0	0
1	VV	921	4091	2588	701	787	15	U	U
1	X	521	Total	С	N	О	S	0	0
1	Λ	921	4091	2588	701	787	15	U	U
1	Y	521	Total	\mathbf{C}	N	O	\mathbf{S}	0	0
1	1	021	4091	2588	701	787	15	0	0
1	Z	521	Total	\mathbf{C}	N	О	\mathbf{S}	0	0
		321	4091	2588	701	787	15		
1	a	521	Total	С	N	O	\mathbf{S}	0	0
		J = 1	4091	2588	701	787	15	Ů	<u> </u>
1	b	521	Total	С	N	0	S	0	0
			4091	2588	701	787	15		
1	c	521	Total	С	N	0	S	0	0
			4091	2588	701	787	15		
1	d	521	Total	C	N 701	O	S	0	0
			4091	2588	$\frac{701}{N}$	787	$\frac{15}{S}$		
1	е	521	Total	C		O 797	5 15	0	0
			4091 Total	$\frac{2588}{C}$	$\frac{701}{N}$	$\frac{787}{O}$	$\frac{15}{S}$		
1	f	521	4091	2588	701	787	5 15	0	0
			Total	C	N	0	S S		
1	g	521	4091	2588	701	787	15	0	0
			Total	C	N	O	$\frac{10}{S}$		
1	h	521	4091	2588	701	787	15	0	0
			Total	C	N	O	S		
1	i	521	4091	2588	701	787	15	0	0
	_	V 0.5	Total	C	N	O	S	6	6
1	j	521	4091	2588	701	787	15	0	0
	,	204	Total	С	N	0	S		
1	k	521	4091	2588	701	787	15	0	0
1	1	F01	Total	С	N	О	S	0	0
1	1	521	4091	2588	701	787	15	0	0
	1						01:-	7	



		n previous pa	ge	A 4				Allo	TD.
Mol	Chain	Residues	- TD - 1		oms		<u> </u>	AltConf	Trace
1	m	521	Total	C	N 701	O	S	0	0
			4091	2588	701	787	15		
1	n	521	Total	C	N	0	S	0	0
			4091	2588	701	787	15		
1	О	521	Total	С	N	0	S	0	0
		-	4091	2588	701	787	15	_	
1	p	521	Total	С	N	O	S	0	0
_	r	0	4091	2588	701	787	15		
1	q	521	Total	С	N	O	S	0	0
	4	921	4091	2588	701	787	15	Ŭ	Ů
1	r	521	Total	\mathbf{C}	N	O	S	0	0
	1	921	4091	2588	701	787	15	Ü	Ů,
1	s	521	Total	С	N	Ο	S	0	0
1	D D	021	4091	2588	701	787	15	0	0
1	t	521	Total	\mathbf{C}	N	O	S	0	0
1	U	521	4091	2588	701	787	15	U	U
1	u	521	Total	С	N	Ο	S	0	0
1	u	521	4091	2588	701	787	15		0
1	77	521	Total	С	N	О	S	0	0
1	V	321	4091	2588	701	787	15	0	U
1		591	Total	С	N	О	S	0	0
1	W	521	4091	2588	701	787	15	U	U
1		591	Total	С	N	О	S	0	0
1	X	521	4091	2588	701	787	15	U	0
1		F01	Total	С	N	О	S	0	0
1	У	521	4091	2588	701	787	15	0	0
1	_	F01	Total	С	N	О	S	0	0
1	Z	521	4091	2588	701	787	15	0	0
1	1	591	Total	С	N	О	S	0	0
1	1	521	4091	2588	701	787	15	U	U
1	2	F01	Total	С	N	О	S	0	0
1	2	521	4091	2588	701	787	15	0	0
1	9	F01	Total	С	N	О	S	0	0
1	3	521	4091	2588	701	787	15	0	0
1	4	F01	Total	С	N	О	S	0	0
1	4	521	4091	2588	701	787	15	0	0
1	-	F01	Total	С	N	О	S	0	0
1	5	521	4091	2588	701	787	15	0	0
1	C	F01	Total	С	N	О	S	0	0
1	6	521	4091	2588	701	787	15	0	0
1	-	F01	Total	С	N	О	S	0	0
1	7	521	4091	2588	701	787	15	0	0
	1							ued on ner	



Mol	Chain	Residues	Atoms			AltConf	Trace		
1	8	521	Total 4091	C 2588	N 701	O 787	S 15	0	0



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.

Chain A:	100%	
#2007 E207 L726		
• Molecule 1: Capsid protein		
Chain B:	100%	
A206 €207 ←207 ← €207 ← €207 ← €207 ← €207 ← €207 ← €207 ← €207 ← €207 ← €207 ←207 ←207 ←207 ←207 ←207 ←207 ←207 ←		
• Molecule 1: Capsid protein		
Chain C:	100%	
◆		
• Molecule 1: Capsid protein		
Chain D:	100%	
4206 + E207 + E2		
• Molecule 1: Capsid protein		
Chain E:	100%	
••		



• Molecule 1: Capsid protein		
Chain F:	100%	
A206 1.726 1.726		
• Molecule 1: Capsid protein		
Chain G:	100%	
A206 C726 C726		
• Molecule 1: Capsid protein		
Chain H:	100%	
4206 + 1726 - 17		
• Molecule 1: Capsid protein		
Chain I:	100%	
A206 + E207 + E2		
• Molecule 1: Capsid protein		
Chain J:	100%	
4 4206 4 E207		
• Molecule 1: Capsid protein		
Chain K:	100%	
◆		
• Molecule 1: Capsid protein		
Chain L:	100%	





 \bullet Molecule 1: Capsid protein

Chain M:

100%



• Molecule 1: Capsid protein

Chain N:

100%



• Molecule 1: Capsid protein

Chain O:

100%



• Molecule 1: Capsid protein

Chain P:

100%



• Molecule 1: Capsid protein

Chain Q:

100%



• Molecule 1: Capsid protein

Chain R:

100%



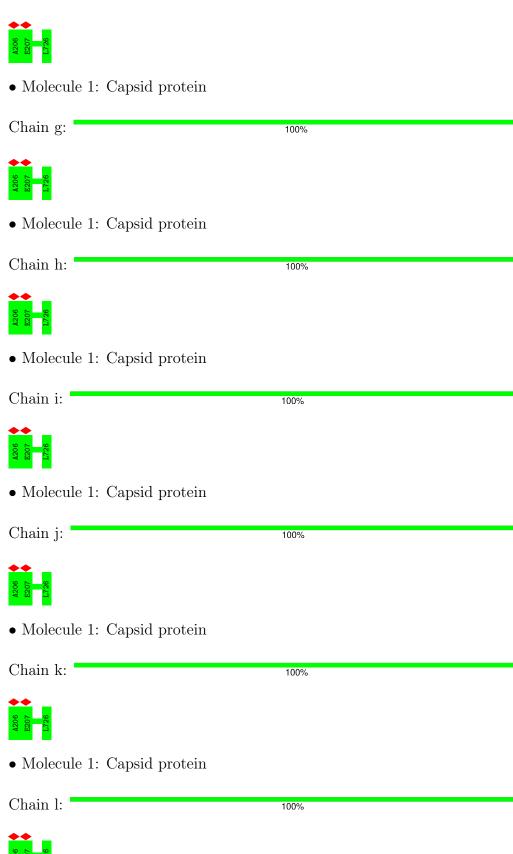


Chain S:	100%	
A206 E207 L726		
• Molecule 1: Capsid protein		
Chain T:	100%	
A206 E207 L726		
• Molecule 1: Capsid protein		
Chain U:	100%	
A206 PE207 L726		
• Molecule 1: Capsid protein		
Chain V:	100%	
A206 E207 L726		
• Molecule 1: Capsid protein		
Chain W:	100%	
A205 E207 L726		
• Molecule 1: Capsid protein		
Chain X:	100%	
A206 PE207 L728		
• Molecule 1: Capsid protein		
Chain Y:	100%	
A 2 0 €		



• Molecule 1: Capsid protein		
Chain Z:	100%	
4205 E207 L726		
• Molecule 1: Capsid protein		
Chain a:	100%	
A206 ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ← ←		
• Molecule 1: Capsid protein		
Chain b:	100%	
A206		
• Molecule 1: Capsid protein		
Chain c:	100%	
A 206 E 207 L 726		
• Molecule 1: Capsid protein		
Chain d:	100%	
A 206 E 207		
• Molecule 1: Capsid protein		
Chain e:	100%	
A206 E207 L726		
• Molecule 1: Capsid protein		
Chain f:	100%	



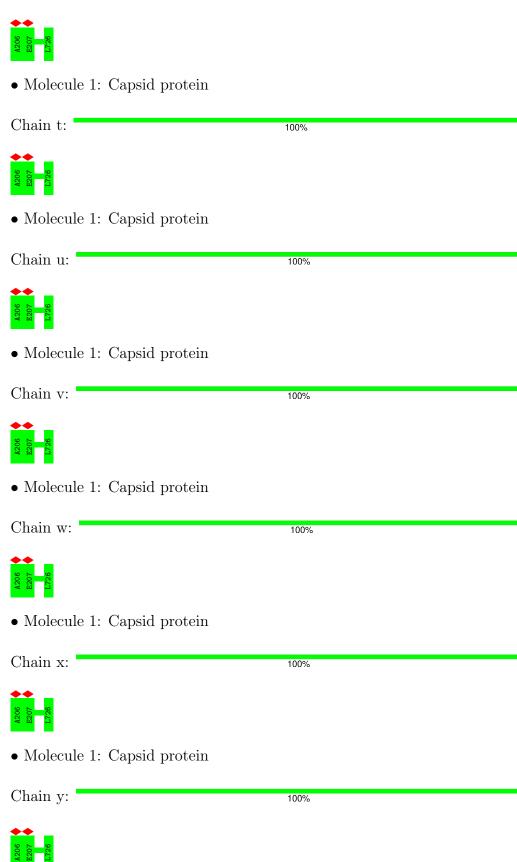






Chain m:	100%	
A206		
• Molecule 1: Capsid protein		
Chain n:	100%	
A206 E207 E207 L726		
• Molecule 1: Capsid protein		
Chain o:	100%	
A206		
• Molecule 1: Capsid protein		
Chain p:	100%	
A206 ← E207 ← L726		
• Molecule 1: Capsid protein		
Chain q:	100%	
A206 ← E207 ← I726 ← I726		
• Molecule 1: Capsid protein		
Chain r:	100%	
A206		
• Molecule 1: Capsid protein		
Chain s:	100%	









Chain z:	100%	
A206 CE207 C		
Molecule 1: Capsid protein		
Chain 1:	100%	
A206 E207 L726		
• Molecule 1: Capsid protein		
Chain 2:	100%	
A206 E207 F206 I.726		
• Molecule 1: Capsid protein		
Chain 3:	100%	
A206		
• Molecule 1: Capsid protein		
Chain 4:	100%	
A206 + E207 + L726		
• Molecule 1: Capsid protein		
Chain 5:	100%	
₩206 ₩2077		
• Molecule 1: Capsid protein		
Chain 6:	100%	
A206 ← E207 ← E		



•	Molecul	le 1:	Capsid	protein

Chain 7: 100%



• Molecule 1: Capsid protein

Chain 8: 100%





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	73613	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 $(e^-/\text{Å}^2)$	62	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2800	Depositor
Magnification	Not provided	
Image detector	DIRECT ELECTRON DE-20 (5k x 3k)	Depositor
Maximum map value	21.969	Depositor
Minimum map value	-9.652	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	496.0, 496.0, 496.0	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.24, 1.24, 1.24	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).

N /I = 1	Chair	Bond	lengths Bond an		langles
Mol	Chain	RMSZ	# Z > 5	RMSZ	$\mid \# Z > 5$
1	1	0.56	0/4216	0.52	0/5752
1	2	0.56	0/4216	0.52	0/5752
1	3	0.56	0/4216	0.52	0/5752
1	4	0.56	0/4216	0.52	0/5752
1	5	0.56	0/4216	0.52	0/5752
1	6	0.56	0/4216	0.52	0/5752
1	7	0.56	0/4216	0.52	0/5752
1	8	0.56	0/4216	0.52	0/5752
1	A	0.56	0/4216	0.52	0/5752
1	В	0.56	0/4216	0.52	0/5752
1	С	0.56	0/4216	0.52	0/5752
1	D	0.56	0/4216	0.52	0/5752
1	Е	0.56	0/4216	0.52	0/5752
1	F	0.56	0/4216	0.52	0/5752
1	G	0.56	0/4216	0.52	0/5752
1	Н	0.56	0/4216	0.52	0/5752
1	I	0.56	0/4216	0.52	0/5752
1	J	0.56	0/4216	0.52	0/5752
1	K	0.56	0/4216	0.52	0/5752
1	L	0.56	0/4216	0.52	0/5752
1	M	0.56	0/4216	0.52	0/5752
1	N	0.56	0/4216	0.52	0/5752
1	O	0.56	0/4216	0.52	0/5752
1	P	0.56	0/4216	0.52	0/5752
1	Q	0.56	0/4216	0.52	0/5752
1	R	0.56	0/4216	0.52	0/5752
1	S	0.56	0/4216	0.52	0/5752
1	Т	0.56	0/4216	0.52	0/5752
1	U	0.56	0/4216	0.52	0/5752
1	V	0.56	0/4216	0.52	0/5752
1	W	0.56	0/4216	0.52	0/5752
1	X	0.56	0/4216	0.52	0/5752
1	Y	0.56	0/4216	0.52	0/5752
1	Z	0.56	0/4216	0.52	0/5752



Mol Chain		Bond	lengths	Bond angles		
IVIOI	Chain	RMSZ	# Z >5	RMSZ	# Z >5	
1	a	0.56	0/4216	0.52	0/5752	
1	b	0.56	0/4216	0.52	0/5752	
1	С	0.56	0/4216	0.52	0/5752	
1	d	0.56	0/4216	0.52	0/5752	
1	е	0.56	0/4216	0.52	0/5752	
1	f	0.56	0/4216	0.52	0/5752	
1	g	0.56	0/4216	0.52	0/5752	
1	h	0.56	0/4216	0.52	0/5752	
1	i	0.56	0/4216	0.52	0/5752	
1	j	0.56	0/4216	0.52	0/5752	
1	k	0.56	0/4216	0.52	0/5752	
1	1	0.56	0/4216	0.52	0/5752	
1	m	0.56	0/4216	0.52	0/5752	
1	n	0.56	0/4216	0.52	0/5752	
1	0	0.56	0/4216	0.52	0/5752	
1	p	0.56	0/4216	0.52	0/5752	
1	q	0.56	0/4216	0.52	0/5752	
1	r	0.56	0/4216	0.52	0/5752	
1	S	0.56	0/4216	0.52	0/5752	
1	t	0.56	0/4216	0.52	0/5752	
1	u	0.56	0/4216	0.52	0/5752	
1	V	0.56	0/4216	0.52	0/5752	
1	W	0.56	0/4216	0.52	0/5752	
1	X	0.56	0/4216	0.52	0/5752	
1	у	0.56	0/4216	0.52	0/5752	
1	Z	0.56	0/4216	0.52	0/5752	
All	All	0.56	0/252960	0.52	0/345120	

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 (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	Perce	ntiles
1	1	519/521~(100%)	509 (98%)	10 (2%)	0	100	100
1	2	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	3	519/521~(100%)	509 (98%)	10 (2%)	0	100	100
1	4	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	5	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	6	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	7	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	8	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	A	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	В	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	С	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	D	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Е	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	F	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	G	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Н	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	I	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	J	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	K	519/521~(100%)	509 (98%)	10 (2%)	0	100	100
1	L	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	M	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	N	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	О	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Р	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Q	519/521 (100%)	509 (98%)	10 (2%)	0	100	100



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	entiles
1	R	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	S	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	Т	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	U	$519/521 \; (100\%)$	509 (98%)	10 (2%)	0	100	100
1	V	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	W	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	X	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Y	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Z	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	a	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	b	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	c	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	d	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	e	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	f	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	g	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	h	$519/521 \; (100\%)$	509 (98%)	10 (2%)	0	100	100
1	i	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	j	$519/521 \; (100\%)$	509 (98%)	10 (2%)	0	100	100
1	k	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	1	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	m	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	n	519/521~(100%)	509 (98%)	10 (2%)	0	100	100
1	О	$519/521\ (100\%)$	509 (98%)	10 (2%)	0	100	100
1	р	$519/521 \; (100\%)$	509 (98%)	10 (2%)	0	100	100
1	q	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	r	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	S	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	t	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	u	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	v	519/521 (100%)	509 (98%)	10 (2%)	0	100	100



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percer	ntiles
1	W	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	X	$519/521 \; (100\%)$	509 (98%)	10 (2%)	0	100	100
1	У	519/521 (100%)	509 (98%)	10 (2%)	0	100	100
1	Z	$519/521 \; (100\%)$	509 (98%)	10 (2%)	0	100	100
All	All	31140/31260 (100%)	30540 (98%)	600 (2%)	0	100	100

There are no Ramachandran outliers to report.

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	1	444/444 (100%)	444 (100%)	0	100	100
1	2	444/444 (100%)	444 (100%)	0	100	100
1	3	444/444 (100%)	444 (100%)	0	100	100
1	4	444/444 (100%)	444 (100%)	0	100	100
1	5	444/444 (100%)	444 (100%)	0	100	100
1	6	444/444 (100%)	444 (100%)	0	100	100
1	7	444/444 (100%)	444 (100%)	0	100	100
1	8	444/444 (100%)	444 (100%)	0	100	100
1	A	444/444 (100%)	444 (100%)	0	100	100
1	В	444/444 (100%)	444 (100%)	0	100	100
1	C	444/444 (100%)	444 (100%)	0	100	100
1	D	444/444 (100%)	444 (100%)	0	100	100
1	E	444/444 (100%)	444 (100%)	0	100	100
1	F	444/444 (100%)	444 (100%)	0	100	100
1	G	444/444 (100%)	444 (100%)	0	100	100
1	Н	444/444 (100%)	444 (100%)	0	100	100
1	I	444/444 (100%)	444 (100%)	0	100	100



Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	J	444/444 (100%)	444 (100%)	0	100	100
1	K	444/444~(100%)	444 (100%)	0	100	100
1	L	444/444~(100%)	444 (100%)	0	100	100
1	M	444/444 (100%)	444 (100%)	0	100	100
1	N	444/444 (100%)	444 (100%)	0	100	100
1	О	444/444~(100%)	444 (100%)	0	100	100
1	P	444/444 (100%)	444 (100%)	0	100	100
1	Q	444/444~(100%)	444 (100%)	0	100	100
1	R	444/444~(100%)	444 (100%)	0	100	100
1	S	444/444~(100%)	444 (100%)	0	100	100
1	Т	444/444~(100%)	444 (100%)	0	100	100
1	U	444/444~(100%)	444 (100%)	0	100	100
1	V	$444/444\ (100\%)$	444 (100%)	0	100	100
1	W	444/444~(100%)	444 (100%)	0	100	100
1	X	$444/444\ (100\%)$	444 (100%)	0	100	100
1	Y	$444/444\ (100\%)$	444 (100%)	0	100	100
1	Z	$444/444\ (100\%)$	444 (100%)	0	100	100
1	a	$444/444\ (100\%)$	444 (100%)	0	100	100
1	b	$444/444\ (100\%)$	444 (100%)	0	100	100
1	c	444/444~(100%)	444 (100%)	0	100	100
1	d	444/444 (100%)	444 (100%)	0	100	100
1	e	$444/444\ (100\%)$	444 (100%)	0	100	100
1	f	$444/444\ (100\%)$	444 (100%)	0	100	100
1	g	$444/444\ (100\%)$	444 (100%)	0	100	100
1	h	444/444 (100%)	444 (100%)	0	100	100
1	i	444/444 (100%)	444 (100%)	0	100	100
1	j	444/444~(100%)	444 (100%)	0	100	100
1	k	444/444 (100%)	444 (100%)	0	100	100
1	1	444/444 (100%)	444 (100%)	0	100	100
1	m	444/444 (100%)	444 (100%)	0	100	100
1	n	444/444 (100%)	444 (100%)	0	100	100



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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	О	444/444 (100%)	444 (100%)	0	100 100
1	p	444/444 (100%)	444 (100%)	0	100 100
1	q	444/444 (100%)	444 (100%)	0	100 100
1	r	444/444 (100%)	444 (100%)	0	100 100
1	s	444/444 (100%)	444 (100%)	0	100 100
1	t	444/444 (100%)	444 (100%)	0	100 100
1	u	444/444 (100%)	444 (100%)	0	100 100
1	V	444/444 (100%)	444 (100%)	0	100 100
1	W	444/444 (100%)	444 (100%)	0	100 100
1	X	444/444 (100%)	444 (100%)	0	100 100
1	у	444/444 (100%)	444 (100%)	0	100 100
1	Z	444/444 (100%)	444 (100%)	0	100 100
All	All	26640/26640 (100%)	26640 (100%)	0	100 100

There are no protein residues with a non-rotameric sidechain to report.

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (984) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	226	HIS
1	A	243	HIS
1	A	278	HIS
1	A	291	ASN
1	A	292	ASN
1	A	293	HIS
1	A	324	ASN
1	A	398	ASN
1	A	403	GLN
1	A	417	GLN
1	A	471	GLN
1	A	481	ASN
1	A	509	GLN
1	A	524	ASN
1	A	556	ASN
1	A	560	ASN
1	В	226	HIS
1	В	243	HIS
1	В	278	HIS

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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	В	280	HIS	
1	В	291	ASN	
1	В	292	ASN	
1	В	293	HIS	
1	В	324	ASN	
1	В	398	ASN	
1	В	403	GLN	
1	В	417	GLN	
1	В	471	GLN	
1	В	481	ASN	
1	В	509	GLN	
1	В	524	ASN	
1	В	556	ASN	
1	B C C C C C C C C C C C C C C C C C C C	560	ASN	
1	С	226	HIS	
1	С	243	HIS	
1	С	278	HIS	
1	С	280	HIS	
1	С	291	ASN	
1	С	292	ASN	
1	С	293	HIS	
1	С	324	ASN	
1	С	398	ASN	
1	С	403	GLN	
1	С	417	GLN	
1	С	471	GLN	
1	С	481	ASN	
1		509	GLN	
1	С	524	ASN	
1	C C D	556	ASN	
1	С	560	ASN	
1		226	HIS	
1	D	243	HIS	
1	D	278	HIS	
1	D	291	ASN	
1	D	292	ASN	
1	D	293	HIS	
1	D	324	ASN	
1	D	398	ASN	
1	D	403	GLN	
1	D	417	GLN	
1	D	471	GLN	

 $\begin{array}{|c|c|c|c|c|c|}\hline D & 471 & GLN \\\hline Continued on next page... \\\hline \end{array}$



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	D	481	ASN	
1	D	509	GLN	
1	D	524	ASN	
1	D	556	ASN	
1	D	560	ASN	
1	Е	226	HIS	
1	Е	243	HIS	
1	Е	278	HIS	
1	Е	291	ASN	
1	Е	292	ASN	
1	Е	293	HIS	
1	Е	324	ASN	
1	Е	398	ASN	
1	Е	403	GLN	
1	Е	417	GLN	
1	Е	471	GLN	
1	Е	481	ASN	
1	Е	509	GLN	
1	Е	524	ASN	
1	Е	556	ASN	
1	Е	560	ASN	
1	F	226	HIS	
1	F	243	HIS	
1	F	278	HIS	
1	F	280	HIS	
1	F	291	ASN	
1	F	292	ASN	
1	F	293	HIS	
1	F	324	ASN	
1	F	398	ASN	
1	F	403	GLN	
1	F	417	GLN	
1	F	471	GLN	
1	F	481	ASN	
1	F	509	GLN	
1	F	524	ASN	
1	F	556	ASN	
1	F	560	ASN	
1	G	226	HIS	
1	G	243	HIS	
1	G	278	HIS	
1	G	291	ASN	



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Mol	Chain	Res	Type
1	G	292	ASN
1	G	293	HIS
1	G	324	ASN
1	G	398	ASN
1	G	403	GLN
1	G	417	GLN
1	G	471	GLN
1	G	481	ASN
1	G	509	GLN
1	G	524	ASN
1	G	556	ASN
1	G	560	ASN
1	Н	226	HIS
1	Н	243	HIS
1	Н	278	HIS
1	Н	291	ASN
1	Н	292	ASN
1	Н	293	HIS
1	Н	324	ASN
1	Н	398	ASN
1	Н	403	GLN
1	Н	417	GLN
1	Н	471	GLN
1	Н	481	ASN
1	Н	509	GLN
1	Н	524	ASN
1	Н	556	ASN
1	Н	560	ASN
1	I	226	HIS
1	I	243	HIS
1	I	278	HIS
1	I	280	HIS
1	I	291	ASN
1	I	292	ASN
1	I	293	HIS
1	I	324	ASN
1	I	398	ASN
1	I	403	GLN
1	I	417	GLN
1	I	471	GLN
1	I	481	ASN
1	I	509	GLN
	1	l	



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Mol	Chain	Res	Type	
1	I	524	ASN	
1	I	556	ASN	
1	I	560	ASN	
1	J	226	HIS	
1	J	243	HIS	
1	J	278	HIS	
1	J	291	ASN	
1	J	292	ASN	
1	J	293	HIS	
1	J	324	ASN	
1	J	398	ASN	
1	J	403	GLN	
1	J	417	GLN	
1	J	471	GLN	
1	J	481	ASN	
1	J	509	GLN	
1	J	524	ASN	
1	J	556	ASN	
1	J	560	ASN	
1	K	226	HIS	
1	K	243	HIS	
1	K	278	HIS	
1	K	291	ASN	
1	K	292	ASN	
1	K	293	HIS	
1	K	324	ASN	
1	K	398	ASN	
1	K	403	GLN	
1	K	417	GLN	
1	K	471	GLN	
1	K	481	ASN	
1	K	509	GLN	
1	K	524	ASN	
1	K	556	ASN	
1	K	560	ASN	
1	L	226	HIS	
1	L	243	HIS	
1	L	278	HIS	
1	L	291	ASN	
1	L	292	ASN	
1	L	293	HIS	
1	L	324	ASN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	L	398	ASN	
1	L	403	GLN	
1	L	417	GLN	
1	L	471	GLN	
1	L	481	ASN	
1	L	509	GLN	
1	L	524	ASN	
1	L	556	ASN	
1	L	560	ASN	
1	M	226	HIS	
1	M	243	HIS	
1	M	278	HIS	
1	M	280	HIS	
1	M	291	ASN	
1	M	292	ASN	
1	M	293	HIS	
1	M	324	ASN	
1	M	398	ASN	
1	M	403	GLN	
1	M	417	GLN	
1	M	471	GLN	
1	M	481	ASN	
1	M	509	GLN	
1	M	524	ASN	
1	M	556	ASN	
1	M	560	ASN	
1	N	226	HIS	
1	N	243	HIS	
1	N	278	HIS	
1	N	280	HIS	
1	N	291	ASN	
1	N	292	ASN	
1	N	293	HIS	
1	N	324	ASN	
1	N	398	ASN	
1	N	403	GLN	
1	N	417	GLN	
1	N	471	GLN	
1	N	481	ASN	
1	N	509	GLN	
1	N	524	ASN	
1	N	556	ASN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	N	560	ASN	
1	О	226	HIS	
1	О	243	HIS	
1	О	278	HIS	
1	O	291	ASN	
1	0 0 0 0	292	ASN	
1	О	293	HIS	
1	О	324	ASN	
1	О	398	ASN	
1	О	403	GLN	
1	О	417	GLN	
1	О	471	GLN	
1	O	481	ASN	
1	O O O O O O P P	509	GLN	
1	O	524	ASN	
1	О	556	ASN	
1	O	560	ASN	
1	Р	226	HIS	
1	Р	243	HIS	
1	Р	278	HIS	
1	P P P P	291	ASN	
1	Р	292	ASN	
1	Р	293	HIS	
1	Р	324	ASN	
1	Р	398	ASN	
1	Р	403	GLN	
1	Р	417	GLN	
1	Р	471	GLN	
1	Р	481	ASN	
1	Р	509	GLN	
1	P P	524	ASN	
1	P	556	ASN	
1	Р	560	ASN	
1	Q	226	HIS	
1	Q	243	HIS	
1	Q	278	HIS	
1	Q Q Q Q Q Q	280	HIS	
1	Q	291	ASN	
1	Q	292	ASN	
1	Q	293	HIS	
1	Q	324	ASN	
1	Q	398	ASN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	Q	403	GLN	
1	Q Q Q Q	417	GLN	
1	Q	471	GLN	
1	Q	481	ASN	
1	Q	509	GLN	
1	Q	524	ASN	
1	Q	556	ASN	
1	Q Q Q R	560	ASN	
1		226	HIS	
1	R	243	HIS	
1	R	278	HIS	
1	R	291	ASN	
1	R	292	ASN	
1	R	293	HIS	
1	R	324	ASN	
1	R	398	ASN	
1	R	403	GLN	
1	R	417	GLN	
1	R	471	GLN	
1	R	481	ASN	
1	R	509	GLN	
1	R	524	ASN	
1	R	556	ASN	
1	R	560	ASN	
1	S	226	HIS	
1	S	243	HIS	
1	S	278	HIS	
1	S	291	ASN	
1	S	292	ASN	
1	S	293	HIS	
1	S	324	ASN	
1	S	398	ASN	
1	S	403	GLN	
1	S	417	GLN	
1	S	471	GLN	
1	S	481	ASN	
1	S	509	GLN	
1	S S	524	ASN	
1		556	ASN	
1	S	560	ASN	
1	Т	226	HIS	
1	Т	243	HIS	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	Т	278	HIS	
1	T T T	291	ASN	
1	Т	292	ASN	
1	Т	293	HIS	
1	Т	324	ASN	
1	Т	398	ASN	
1	Т	403	GLN	
1	Т	417	GLN	
1	Т	471	GLN	
1	T T T	481	ASN	
1	Т	509	GLN	
1	T T	524	ASN	
1	Т	556	ASN	
1	Т	560	ASN	
1	U	226	HIS	
1	U	243	HIS	
1	U	278	HIS	
1	U	280	HIS	
1	U	291	ASN	
1	U	292	ASN	
1	U	293	HIS	
1	U	324	ASN	
1	U	398	ASN	
1	U	403	GLN	
1	U	417	GLN	
1	U	471	GLN	
1	U	481	ASN	
1	U	509	GLN	
1	U	524	ASN	
1	U	556	ASN	
1	U	560	ASN	
1	U V	226	HIS	
1	V	243	HIS	
1	V	278	HIS	
1	V	291	ASN	
1	V	292	ASN	
1	V	293	HIS	
1	V	324	ASN	
1	V	398	ASN	
1	V	403	GLN	
1	V	417	GLN	
1	V	471	GLN	



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	Continued from previous page			
Mol	Chain	Res	Type	
1	V	481	ASN	
1	V	509	GLN	
1	V	524	ASN	
1	V	556	ASN	
1	V	560	ASN	
1	W	226	HIS	
1	W	243	HIS	
1	W	278	HIS	
1	W	291	ASN	
1	W	292	ASN	
1	W	293	HIS	
1	W	324	ASN	
1	W	398	ASN	
1	W	403	GLN	
1	W	417	GLN	
1	W	471	GLN	
1	W	481	ASN	
1	W	509	GLN	
1	W	524	ASN	
1	W	556	ASN	
1	W	560	ASN	
1	X	226	HIS	
1	X	243	HIS	
1	X	278	HIS	
1	X	280	HIS	
1	X	291	ASN	
1	X	292	ASN	
1	X	293	HIS	
1	X	324	ASN	
1	X	398	ASN	
1	X	403	GLN	
1	X	417	GLN	
1	X	471	GLN	
1	X	481	ASN	
1	X	509	GLN	
1	X	524	ASN	
1	X	556	ASN	
1	X	560	ASN	
1	Y	226	HIS	
1	Y	243	HIS	
1	Y Y	278	HIS	
1	Y	280	HIS	



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			ous page
Mol	Chain	Res	Type
1	Y	291	ASN
1	Y	292	ASN
1	Y Y	293	HIS
1	Y	324	ASN
1	Y	398	ASN
1	Y	403	GLN
1	Y	417	GLN
1	Y	471	GLN
1	Y	481	ASN
1	Y	509	GLN
1	Y	524	ASN
1	Y	556	ASN
1	Y	560	ASN
1	Y Y Y Y Y Z Z	226	HIS
1	Z	243	HIS
1	Z	278	HIS
1	Z	291	ASN
1	Z	292	ASN
1	Z	293	HIS
1	Z	324	ASN
1	Z	398	ASN
1	Z	403	GLN
1	Z	417	GLN
1	Z	471	GLN
1	Z	481	ASN
1	Z	509	GLN
1	Z	524	ASN
1	Z	556	ASN
1	Z	560	ASN
1	a	226	HIS
1	a	243	HIS
1	a	278	HIS
1	a	291	ASN
1	a	292	ASN
1	a	293	HIS
1	a	324	ASN
1	a	398	ASN
1	a	403	GLN
1	a	417	GLN
1	a	471	GLN
1	a	481	ASN
1	a	509	GLN



Continued from previous page...

Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	a	524	ASN	
1	a	556	ASN	
1	a	560	ASN	
1	b	226	HIS	
1	b	243	HIS	
1	b	278	HIS	
1	b	280	HIS	
1	b	291	ASN	
1	b	292	ASN	
1	b	293	HIS	
1	b	324	ASN	
1	b	398	ASN	
1	b	403	GLN	
1	b	417	GLN	
1	b	471	GLN	
1	b	481	ASN	
1	b	509	GLN	
1	b	524	ASN	
1	b	556	ASN	
1	b	560	ASN	
1	С	226	HIS	
1	С	243	HIS	
1	С	278	HIS	
1	С	291	ASN	
1	С	292	ASN	
1	С	293	HIS	
1	С	324	ASN	
1	С	398	ASN	
1	С	403	GLN	
1	С	417	GLN	
1	С	471	GLN	
1	c	481	ASN	
1	c	509	GLN	
1	c	524	ASN	
1	c	556	ASN	
1	С	560	ASN	
1	d	226	HIS	
1	d	243	HIS	
1	d	278	HIS	
1	d	291	ASN	
1	d	292	ASN	
1	d	293	HIS	



Continued from previous page...

Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	d	324	ASN	
1	d	398	ASN	
1	d	403	GLN	
1	d	417	GLN	
1	d	471	GLN	
1	d	481	ASN	
1	d	509	GLN	
1	d	524	ASN	
1	d	556	ASN	
1	d	560	ASN	
1	е	226	HIS	
1	е	243	HIS	
1	е	278	HIS	
1	е	291	ASN	
1	е	292	ASN	
1	е	293	HIS	
1	е	324	ASN	
1	e	398	ASN	
1	е	403	GLN	
1	e	417	GLN	
1	е	471	GLN	
1	е	481	ASN	
1	е	509	GLN	
1	е	524	ASN	
1	е	556	ASN	
1	е	560	ASN	
1	f	226	HIS	
1	f	243	HIS	
1	f	278	HIS	
1	f	280	HIS	
1	f	291	ASN	
1	f	292	ASN	
1	f	293	HIS	
1	f	324	ASN	
1	f	398	ASN	
1	f	403	GLN	
1	f	417	GLN	
1	f	471	GLN	
1	f	481	ASN	
1	f	509	GLN	
1	f	524	ASN	
1	f	556	ASN	



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Mol Chain Res Type 1 f 560 ASN 1 g 226 HIS 1 g 243 HIS 1 g 278 HIS 1 g 280 HIS 1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 471 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS 1 h 243 HIS
1 g 226 HIS 1 g 243 HIS 1 g 278 HIS 1 g 280 HIS 1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 243 HIS 1 g 278 HIS 1 g 280 HIS 1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 471 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 278 HIS 1 g 280 HIS 1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 280 HIS 1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 280 HIS 1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 291 ASN 1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 292 ASN 1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 293 HIS 1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 324 ASN 1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 398 ASN 1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 403 GLN 1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 417 GLN 1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 471 GLN 1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 481 ASN 1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 509 GLN 1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 524 ASN 1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 556 ASN 1 g 560 ASN 1 h 226 HIS
1 g 560 ASN 1 h 226 HIS
1 h 226 HIS
1 h 243 HIS
1 h 278 HIS
1 h 280 HIS
1 h 291 ASN
1 h 292 ASN
1 h 293 HIS
1 h 324 ASN
1 h 398 ASN
1 h 403 GLN
1 h 417 GLN
1 h 471 GLN
1 h 481 ASN
1 h 509 GLN
1 h 524 ASN
1 h 556 ASN
1 h 560 ASN
1 i 226 HIS
1 i 243 HIS
1 i 278 HIS
1 i 280 HIS
1 i 291 ASN
1 i 292 ASN



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			ous page
Mol	Chain	Res	Type
1	i	324	ASN
1	i	398	ASN
1	i	403	GLN
1	i	417	GLN
1	i	471	GLN
1	i	481	ASN
1	i	509	GLN
1	i	524	ASN
1	i	556	ASN
1	i	560	ASN
1	j	226	HIS
1	j	243	HIS
1	j	278	HIS
1	j	291	ASN
1	j j j	292	ASN
1	j	293	HIS
1	j	324	ASN
1	j	398	ASN
1	j	403	GLN
1	j	417	GLN
1	j	471	GLN
1	j	481	ASN
1	j	509	GLN
1	j	524	ASN
1	j	556	ASN
1	j	560	ASN
1	k	226	HIS
1	k	243	HIS
1	k	278	HIS
1	k	291	ASN
1	k	292	ASN
1	k	293	HIS
1	k	324	ASN
1	k	398	ASN
1	k	403	GLN
1	k	417	GLN
1	k	471	GLN
1	k	481	ASN
1	k	509	GLN
1	k	524	ASN
1	k	556	ASN
1	k	560	ASN



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	Continued from previous page			
Mol	Chain	Res	Type	
1	1	226	HIS	
1	1	243	HIS	
1	1	278	HIS	
1	1	291	ASN	
1	1	292	ASN	
1	1	293	HIS	
1	1	324	ASN	
1	1	398	ASN	
1	1	403	GLN	
1	1	417	GLN	
1	1	471	GLN	
1	1	481	ASN	
1	1	509	GLN	
1	1	524	ASN	
1	1	556	ASN	
1	1	560	ASN	
1	m	226	HIS	
1	m	243	HIS	
1	m	278	HIS	
1	m	291	ASN	
1	m	292	ASN	
1	m	293	HIS	
1	m	324	ASN	
1	m	398	ASN	
1	m	403	GLN	
1	m	417	GLN	
1	m	471	GLN	
1	m	481	ASN	
1	m	509	GLN	
1	m	524	ASN	
1	m	556	ASN	
1	m	560	ASN	
1	n	226	HIS	
1	n	243	HIS	
1	n	278	HIS	
1	n	291	ASN	
1	n	292	ASN	
1	n	293	HIS	
1	n	324	ASN	
1	n	398	ASN	
1	n	403	GLN	
1	n	417	GLN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	n	471	GLN	
1	n	481	ASN	
1	n	509	GLN	
1	n	524	ASN	
1	n	556	ASN	
1	n	560	ASN	
1	0	226	HIS	
1	О	243	HIS	
1	0	278	HIS	
1	О	280	HIS	
1	О	291	ASN	
1	О	292	ASN	
1	О	293	HIS	
1	О	324	ASN	
1	О	398	ASN	
1	О	403	GLN	
1	0	417	GLN	
1	О	471	GLN	
1	О	481	ASN	
1	О	509	GLN	
1	О	524	ASN	
1	О	556	ASN	
1	О	560	ASN	
1	р	226	HIS	
1	р	243	HIS	
1	р	278	HIS	
1	р	291	ASN	
1	р	292	ASN	
1	р	293	HIS	
1	p	324	ASN	
1	p	398	ASN	
1	p	403	GLN	
1	p	417	GLN	
1	p	471	GLN	
1	p	481	ASN	
1	p	509	GLN	
1	p	524	ASN	
1	p	556	ASN	
1	p	560	ASN	
1	q	226	HIS	
1	q	243	HIS	
1	q	278	HIS	



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			ous page
Mol	Chain	Res	Type
1	q	291	ASN
1	q	292	ASN
1	q	293	HIS
1	q	324	ASN
1	q	398	ASN
1	q	403	GLN
1	q	417	GLN
1	q	471	GLN
1	q	481	ASN
1	q	509	GLN
1	q	524	ASN
1	q	556	ASN
1	q	560	ASN
1	r	226	HIS
1	r	243	HIS
1	r	278	HIS
1	r	291	ASN
1	r	292	ASN
1	r	293	HIS
1	r	324	ASN
1	r	398	ASN
1	r	403	GLN
1	r	417	GLN
1	r	471	GLN
1	r	481	ASN
1	r	509	GLN
1	r	524	ASN
1	r	556	ASN
1	r	560	ASN
1	S	226	HIS
1	S	243	HIS
1	S	278	HIS
1	S	280	HIS
1	S	291	ASN
1	S	292	ASN
1	S	293	HIS
1	S	324	ASN
1	S	398	ASN
1	S	403	GLN
1	S	417	GLN
1	S	471	GLN
1	S	481	ASN



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	Continued from previous page			
Mol	Chain	Res	Type	
1	S	509	GLN	
1	S	524	ASN	
1	S	556	ASN	
1	s	560	ASN	
1	t	226	HIS	
1	t	243	HIS	
1	t	278	HIS	
1	t	291	ASN	
1	t	292	ASN	
1	t	293	HIS	
1	t	324	ASN	
1	t	398	ASN	
1	t	403	GLN	
1	t	417	GLN	
1	t	471	GLN	
1	t	481	ASN	
1	t	509	GLN	
1	t	524	ASN	
1	t	556	ASN	
1	t	560	ASN	
1	u	226	HIS	
1	u	243	HIS	
1	u	278	HIS	
1	u	280	HIS	
1	u	291	ASN	
1	u	292	ASN	
1	u	293	HIS	
1	u	324	ASN	
1	u	398	ASN	
1	u	403	GLN	
1	u	417	GLN	
1	u	471	GLN	
1	u	481	ASN	
1	u	509	GLN	
1	u	524	ASN	
1	u	556	ASN	
1	u	560	ASN	
1	V	226	HIS	
1	V	243	HIS	
1	V	278	HIS	
1	V	291	ASN	
1	V	292	ASN	
		<u> </u>		



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	V	293	HIS	
1	V	324	ASN	
1	V	398	ASN	
1	V	403	GLN	
1	V	417	GLN	
1	V	471	GLN	
1	V	481	ASN	
1	V	509	GLN	
1	V	524	ASN	
1	V	556	ASN	
1	V	560	ASN	
1	W	226	HIS	
1	W	243	HIS	
1	W	278	HIS	
1	W	291	ASN	
1	W	292	ASN	
1	W	293	HIS	
1	W	324	ASN	
1	W	398	ASN	
1	W	403	GLN	
1	W	417	GLN	
1	W	471	GLN	
1	W	481	ASN	
1	W	509	GLN	
1	W	524	ASN	
1	W	556	ASN	
1	W	560	ASN	
1	X	226	HIS	
1	X	243	HIS	
1	X	278	HIS	
1	X	280	HIS	
1	X	291	ASN	
1	X	292	ASN	
1	X	293	HIS	
1	X	324	ASN	
1	X	398	ASN	
1	X	403	GLN	
1	X	417	GLN	
1	X	471	GLN	
1	X	481	ASN	
1	X	509	GLN	
1	X	524	ASN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	X	556	ASN	
1	X	560	ASN	
1	у	226	HIS	
1	у	243	HIS	
1	У	278	HIS	
1	у	280	HIS	
1	у	291	ASN	
1	у	292	ASN	
1	у	293	HIS	
1	У	324	ASN	
1	У	398	ASN	
1	у	403	GLN	
1	у	417	GLN	
1	у	471	GLN	
1	У	481	ASN	
1	У	509	GLN	
1	у	524	ASN	
1	У	556	ASN	
1	у	560	ASN	
1	Z	226	HIS	
1	Z	243	HIS	
1	Z	278	HIS	
1	Z	291	ASN	
1	Z	292	ASN	
1	Z	293	HIS	
1	Z	324	ASN	
1	Z	398	ASN	
1	Z	403	GLN	
1	Z	417	GLN	
1	Z	471	GLN	
1	Z	481	ASN	
1	Z	509	GLN	
1	Z	524	ASN	
1	Z	556	ASN	
1	Z	560	ASN	
1	1	226	HIS	
1	1	243	HIS	
1	1	278	HIS	
1	1	280	HIS	
1	1	291	ASN	
1	1	292	ASN	
1	1	293	HIS	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	1	324	ASN	
1	1	398	ASN	
1	1	403	GLN	
1	1	417	GLN	
1	1	471	GLN	
1	1	481	ASN	
1	1	509	GLN	
1	1	524	ASN	
1	1	556	ASN	
1	1	560	ASN	
1	2	226	HIS	
1	2	243	HIS	
1	2	278	HIS	
1	2 2	280	HIS	
1		291	ASN	
1	2	292	ASN	
1	2	293	HIS	
1	2	324	ASN	
1		398	ASN	
1	2 2	403	GLN	
1	2	417	GLN	
1	2	471	GLN	
1	2	481	ASN	
1	2	509	GLN	
1	2	524	ASN	
1	2	556	ASN	
1	2	560	ASN	
1	3	226	HIS	
1	3	243	HIS	
1	3	278	HIS	
1	3	280	HIS	
1	3	291	ASN	
1	3	292	ASN	
1	3	293	HIS	
1	3	324	ASN	
1	3	398	ASN	
1	3	403	GLN	
1	3	417	GLN	
1	3	471	GLN	
1	3	481	ASN	
1	3	509	GLN	
1	3	524	ASN	



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Continued from previous page				
Mol	Chain	Res	Type	
1	3	556	ASN	
1	3	560	ASN	
1	4	226	HIS	
1	4	243	HIS	
1	4	278	HIS	
1	4	291	ASN	
1	4	292	ASN	
1	4	293	HIS	
1	4	324	ASN	
1	4	398	ASN	
1	4	403	GLN	
1	4	417	GLN	
1	4	471	GLN	
1	4	481	ASN	
1	4	509	GLN	
1	4	524	ASN	
1	4	556	ASN	
1	4	560	ASN	
1	5	226	HIS	
1	5	243	HIS	
1	5	278	HIS	
1	5	291	ASN	
1	5	292	ASN	
1	5	293	HIS	
1	5	324	ASN	
1	5	398	ASN	
1	5	403	GLN	
1	5	417	GLN	
1	5	471	GLN	
1	5	481	ASN	
1	5	509	GLN	
1	5	524	ASN	
1	5	556	ASN	
1	5	560	ASN	
1	6	226	HIS	
1	6	243	HIS	
1	6	278	HIS	
1	6	291	ASN	
1	6	292	ASN	
1	6	293	HIS	
1	6	324	ASN	
1	6	398	ASN	



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Mol	Chain	$ hootnote{Res}$	$egin{array}{c} \textit{ous page} \\ \mathbf{Type} \end{array}$
1	6	403	GLN
1	6	417	GLN
1	6	471	GLN
1	6	481	ASN
1	6	509	GLN
1	6	524	ASN
1	6	556	ASN
1	6	560	ASN
1	7	226	HIS
1	7	243	HIS
1	7	278	HIS
1	7	280	HIS
1	7	291	ASN
1	7	292	ASN
1	7	293	HIS
1	7	324	ASN
1	7	398	ASN
1	7	403	GLN
1	7	417	GLN
1	7	471	GLN
1	7	481	ASN
1	7	509	GLN
1	7	524	ASN
1	7	556	ASN
1	7	560	ASN
1	8	226	HIS
1	8	243	HIS
1	8	278	HIS
1	8	291	ASN
1	8	292	ASN
1	8	293	HIS
1	8	324	ASN
1	8	398	ASN
1	8	403	GLN
1	8	417	GLN
1	8	471	GLN
1	8	481	ASN
1	8	509	GLN
1	8	524	ASN
1	8	556	ASN
1	8	560	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 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.



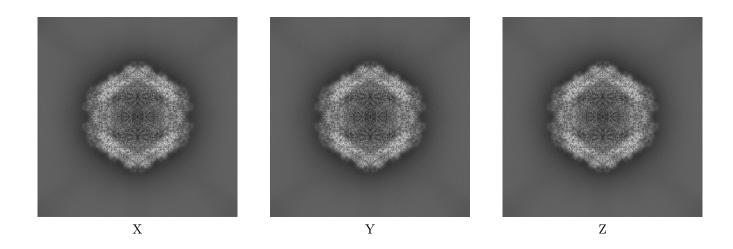
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-26390. These allow visual inspection of the internal detail of the map and identification of artifacts.

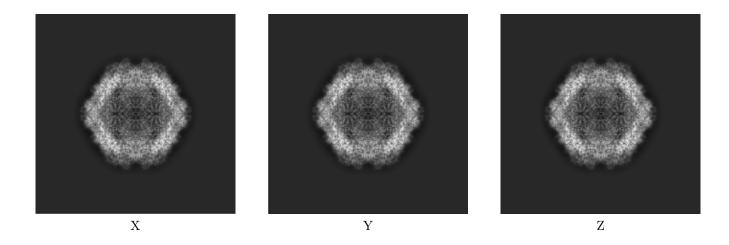
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

6.1.1 Primary map



6.1.2 Raw map

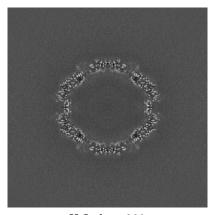


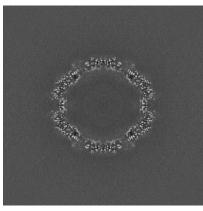
The images above show the map projected in three orthogonal directions.

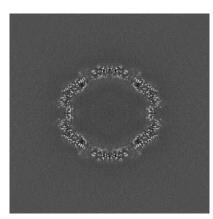


6.2 Central slices (i)

6.2.1 Primary map





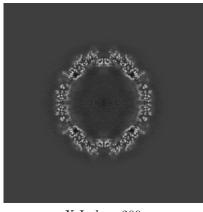


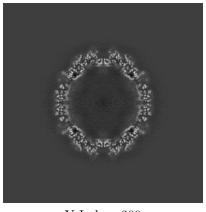
X Index: 200

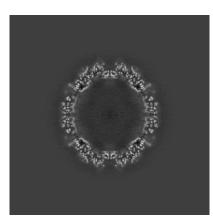
Y Index: 200

Z Index: 200

6.2.2 Raw map







X Index: 200

Y Index: 200

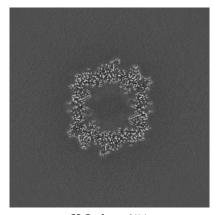
Z Index: 200

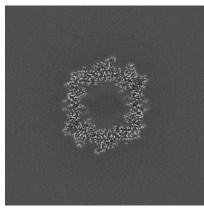
The images above show central slices of the map in three orthogonal directions.

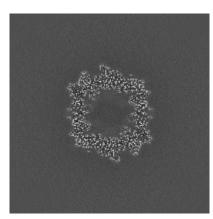


6.3 Largest variance slices (i)

6.3.1 Primary map





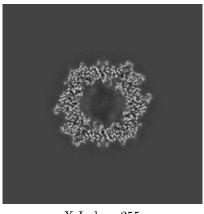


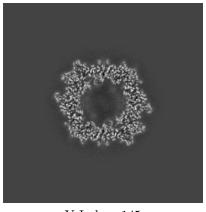
X Index: 254

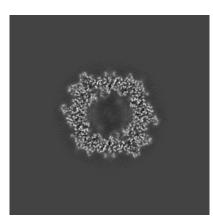
Y Index: 254

Z Index: 146

6.3.2 Raw map







X Index: 255

Y Index: 145

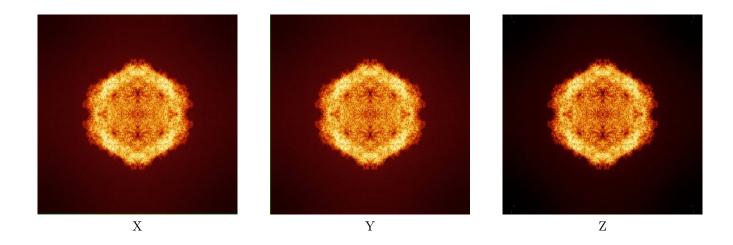
Z Index: 145

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

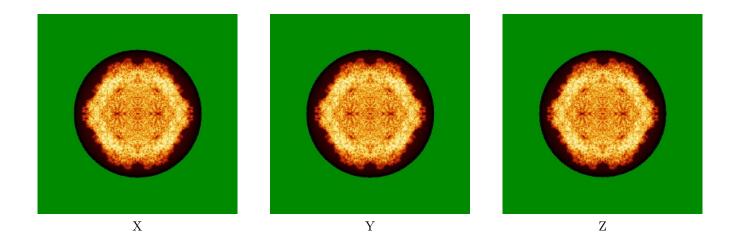


6.4 Orthogonal standard-deviation projections (False-color) (i)

6.4.1 Primary map



6.4.2 Raw map

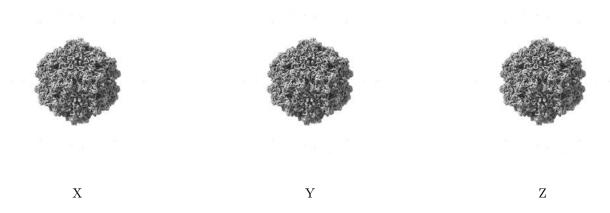


The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.



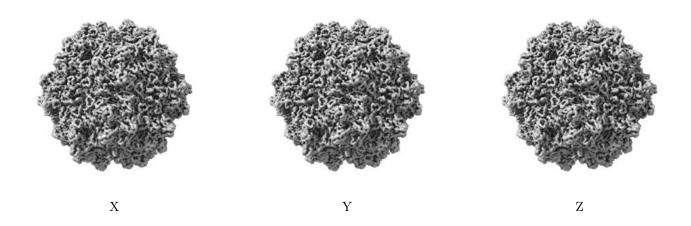
6.5 Orthogonal surface views (i)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 2.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

6.6 Mask visualisation (i)

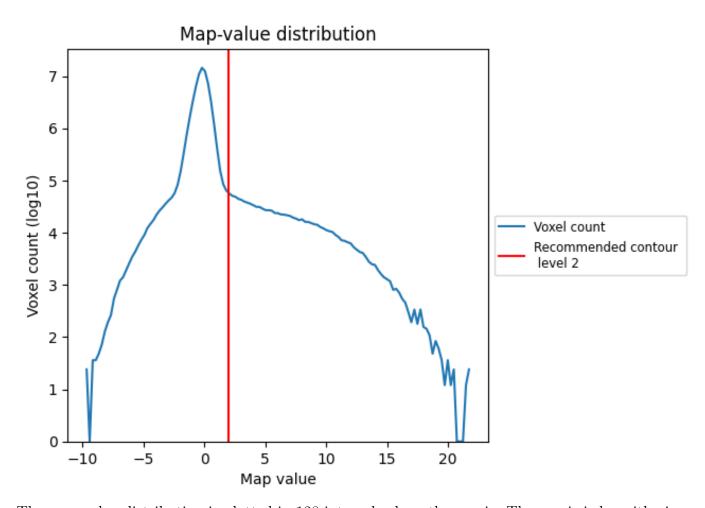
This section was not generated. No masks/segmentation were deposited.



7 Map analysis (i)

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

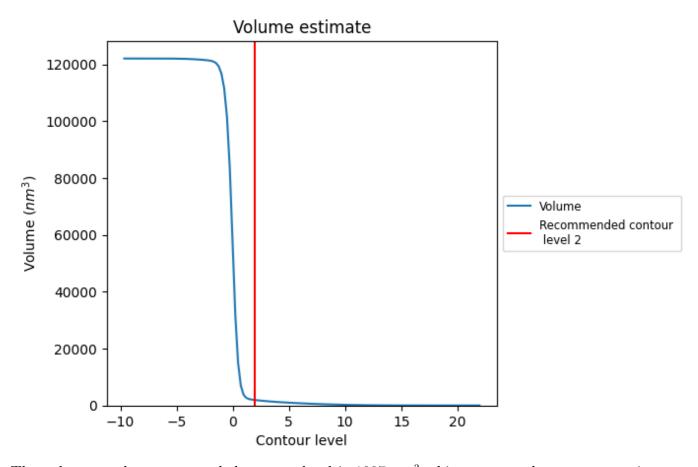
7.1 Map-value distribution (i)



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)

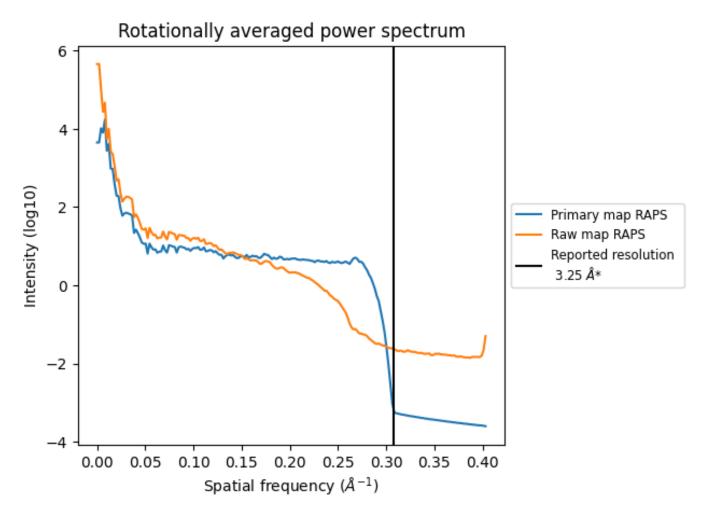


The volume at the recommended contour level is $1907~\mathrm{nm^3}$; this corresponds to an approximate mass of $1723~\mathrm{kDa}$.

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)



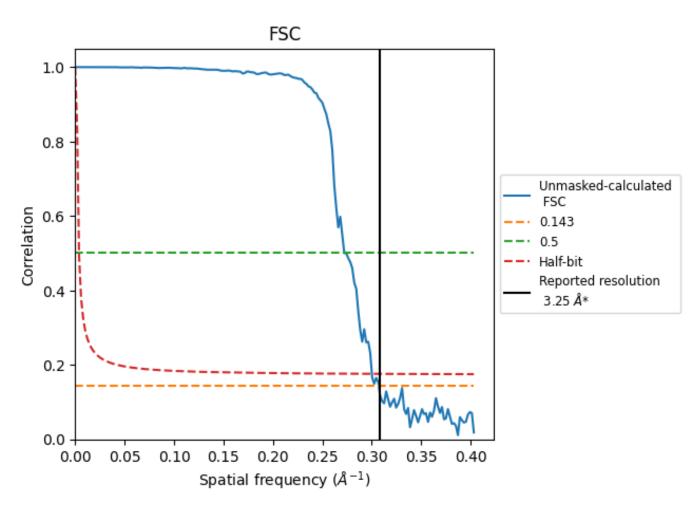
^{*}Reported resolution corresponds to spatial frequency of 0.308 $\rm \mathring{A}^{-1}$



8 Fourier-Shell correlation (i)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC (i)



^{*}Reported resolution corresponds to spatial frequency of 0.308 $\rm \mathring{A}^{-1}$



8.2 Resolution estimates (i)

Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
rtesolution estimate (A)	0.143	0.5	Half-bit
Reported by author	3.25	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	3.26	3.67	3.33

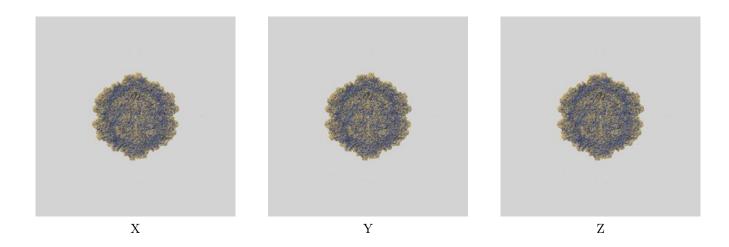
^{*}Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.



9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-26390 and PDB model 7U94. Per-residue inclusion information can be found in section 3 on page 10.

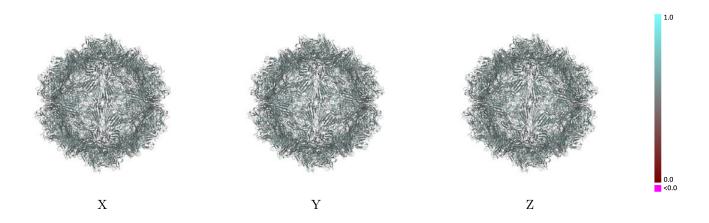
9.1 Map-model overlay (i)



The images above show the 3D surface view of the map at the recommended contour level 2.0 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.

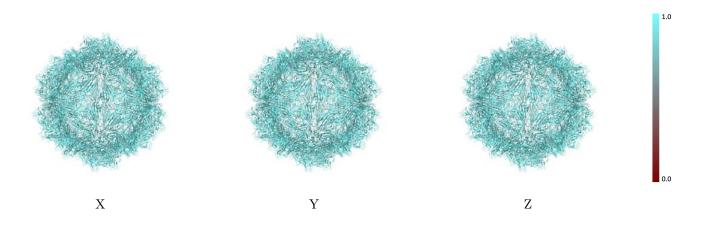


9.2 Q-score mapped to coordinate model (i)



The images above show the model with each residue coloured according 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.

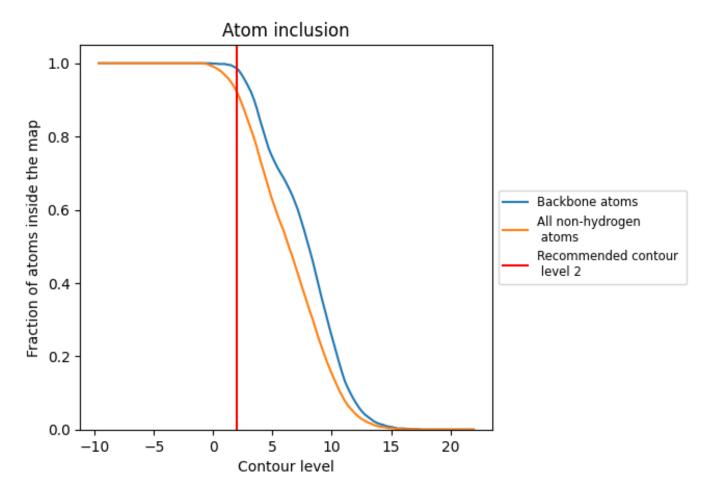
9.3 Atom inclusion mapped to coordinate model (i)



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 (2).



9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 92% of all non-hydrogen atoms, are inside the map.



9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (2) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9210	0.5340
1	0.9210	0.5350
2	0.9210	0.5340
3	0.9220	0.5340
4	0.9220	0.5350
5	0.9200	0.5350
6	0.9210	0.5340
7	0.9210	0.5350
8	0.9210	0.5350
A	0.9210	0.5350
В	0.9210	0.5330
С	0.9220	0.5350
D	0.9210	0.5330
Е	0.9210	0.5350
F	0.9210	0.5330
G	0.9210	0.5340
Н	0.9190	0.5340
I	0.9210	0.5340
J	0.9210	0.5330
K	0.9220	0.5350
L	0.9210	0.5340
M	0.9200	0.5350
N	0.9210	0.5340
О	0.9210	0.5360
P	0.9190	0.5340
Q	0.9210	0.5350
R	0.9210	0.5340
S	0.9210	0.5340
Т	0.9220	0.5360
U	0.9210	0.5350
V	0.9220	0.5350
W	0.9210	0.5340
X	0.9210	0.5340
Y	0.9210	0.5330
Z	0.9210	0.5350





$Continued\ from\ previous\ page...$

Chain	Atom inclusion	Q-score
a	0.9220	0.5330
b	0.9210	0.5350
С	0.9210	0.5340
d	0.9220	0.5350
e	0.9210	0.5350
f	0.9210	0.5350
g	0.9220	0.5350
h	0.9210	0.5350
i	0.9210	0.5340
j	0.9190	0.5350
k	0.9210	0.5340
1	0.9210	0.5350
m	0.9220	0.5340
n	0.9220	0.5350
0	0.9200	0.5350
p	0.9220	0.5350
q	0.9210	0.5330
r	0.9210	0.5350
S	0.9210	0.5340
t	0.9210	0.5360
u	0.9210	0.5350
V	0.9210	0.5340
W	0.9210	0.5330
X	0.9210	0.5340
У	0.9210	0.5340
Z	0.9210	0.5350

