



Full wwPDB EM Validation Report ⓘ

Nov 16, 2022 – 10:00 AM EST

PDB ID : 6WFU
EMDB ID : EMD-21657
Title : BatAAV-10HB - empty particles
Authors : Mietzsch, M.; Agbandje-McKenna, M.
Deposited on : 2020-04-04
Resolution : 3.03 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) : 2.31.2

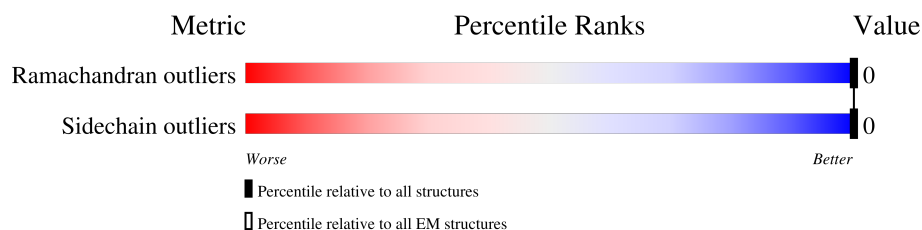
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

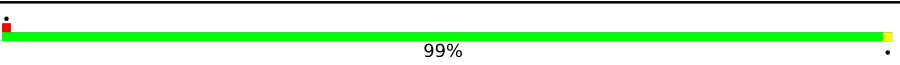
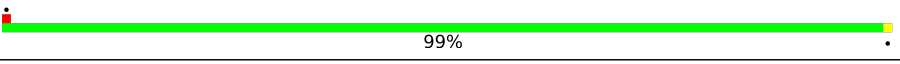
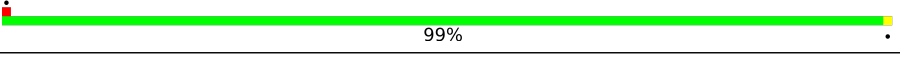
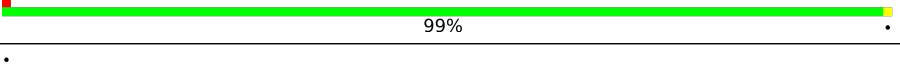
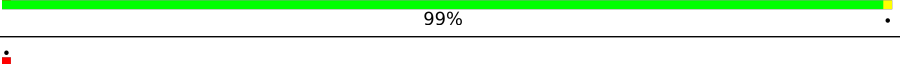
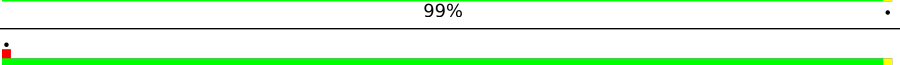
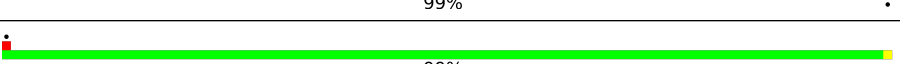
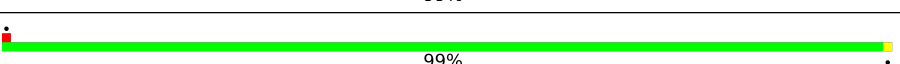

The reported resolution of this entry is 3.03 Å.

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.



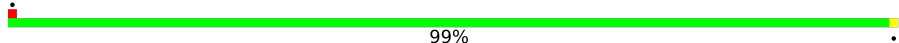
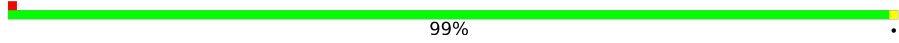
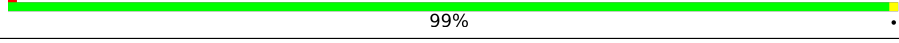
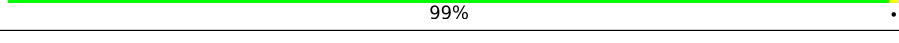
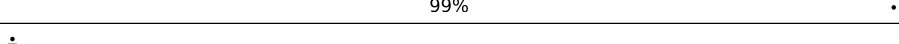
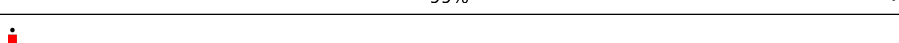


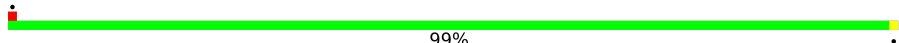
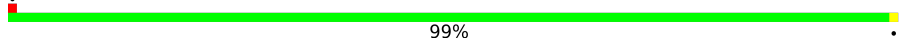
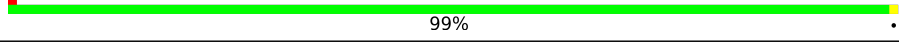
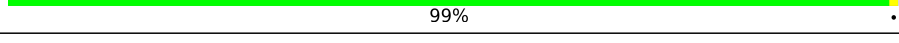
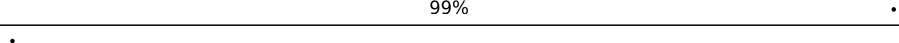
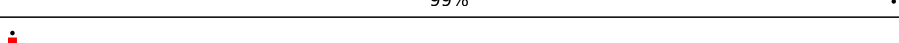
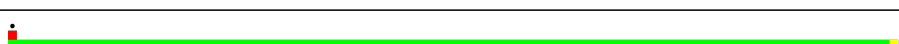
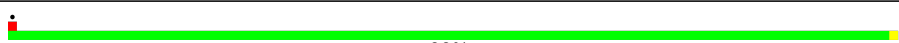
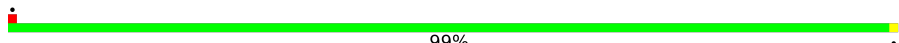
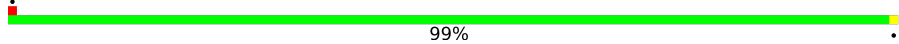
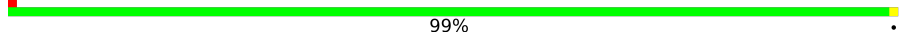
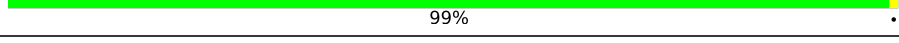
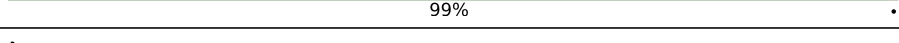
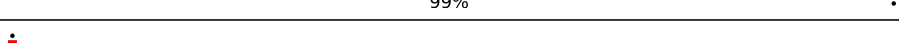
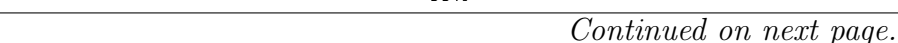


Metric	Whole archive (#Entries)	EM structures (#Entries)
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	1	513	 99% .
1	2	513	 99% .
1	3	513	 99% .
1	4	513	 99% .
1	5	513	 99% .
1	6	513	 99% .
1	7	513	 99% .
1	8	513	 99% .
1	A	513	 99% .

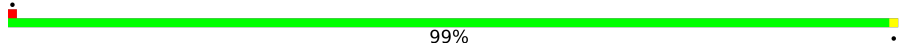
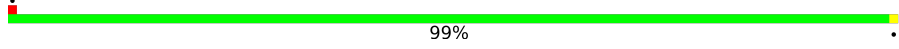
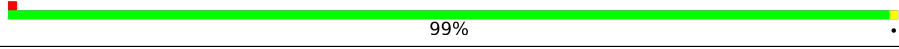
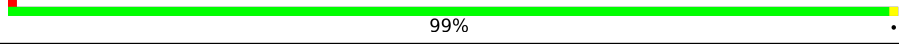
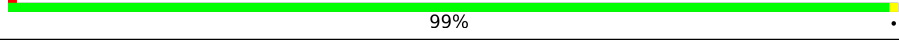
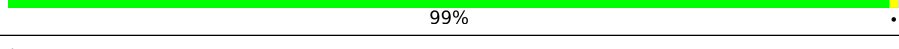
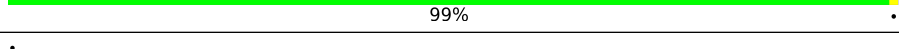
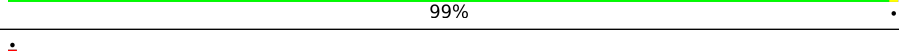
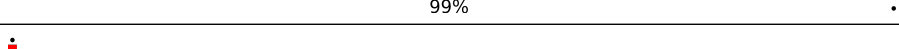
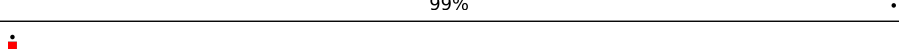
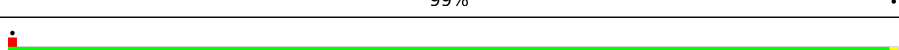
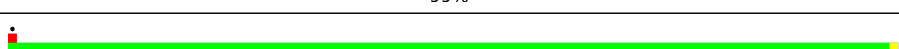
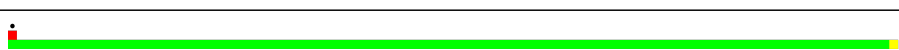
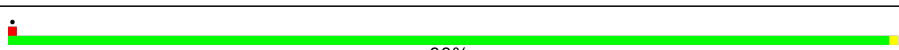
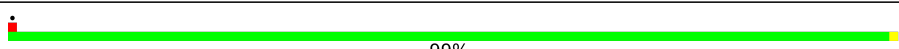
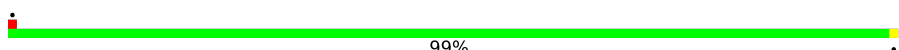
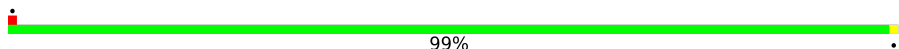
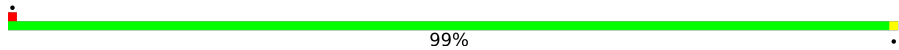
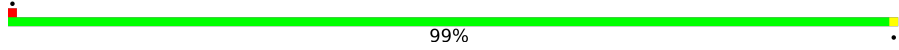
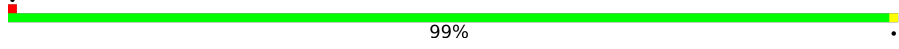
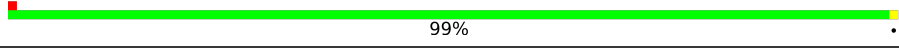
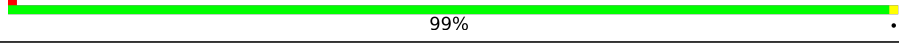
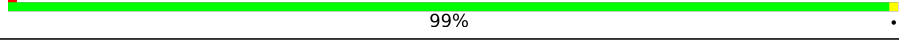
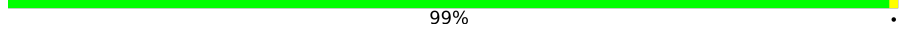

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Mol	Chain	Length	Quality of chain
1	B	513	 99%
1	C	513	 99%
1	D	513	 99%
1	E	513	 99%
1	F	513	 99%
1	G	513	 99%
1	H	513	 99%
1	I	513	 99%
1	J	513	 99%
1	K	513	 99%
1	L	513	 99%
1	M	513	 99%
1	N	513	 99%
1	O	513	 99%
1	P	513	 99%
1	Q	513	 99%
1	R	513	 99%
1	S	513	 99%
1	T	513	 99%
1	U	513	 99%
1	V	513	 99%
1	W	513	 99%
1	X	513	 99%
1	Y	513	 99%
1	Z	513	 99%


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Mol	Chain	Length	Quality of chain
1	a	513	 99%
1	b	513	 99%
1	c	513	 99%
1	d	513	 99%
1	e	513	 99%
1	f	513	 99%
1	g	513	 99%
1	h	513	 99%
1	i	513	 99%
1	j	513	 99%
1	k	513	 99%
1	l	513	 99%
1	m	513	 99%
1	n	513	 99%
1	o	513	 99%
1	p	513	 99%
1	q	513	 99%
1	r	513	 99%
1	s	513	 99%
1	t	513	 99%
1	u	513	 99%
1	v	513	 99%
1	w	513	 99%
1	x	513	 99%
1	y	513	 99%

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Mol	Chain	Length	Quality of chain
1	z	513	 99%

2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 245100 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 VP1 capsid.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	B	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	C	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	D	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	E	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	F	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	G	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	H	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	I	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	J	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	K	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	L	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	M	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	N	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	O	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	P	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		
1	Q	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	S	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	T	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	U	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	V	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	W	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	X	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	Y	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	Z	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	a	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	b	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	c	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	d	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	e	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	f	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	g	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	h	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	i	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	j	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	k	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	l	513	Total 4085	C 2592	N 711	O 765	S 17	1	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	n	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	o	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	p	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	q	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	r	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	s	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	t	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	u	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	v	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	w	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	x	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	y	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	z	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	1	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	2	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	3	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	4	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	5	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	6	513	Total 4085	C 2592	N 711	O 765	S 17	1	0
1	7	513	Total 4085	C 2592	N 711	O 765	S 17	1	0

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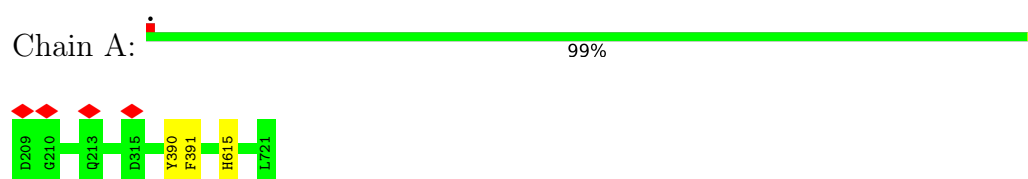
Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	8	513	Total	C	N	O	S	1	0
			4085	2592	711	765	17		

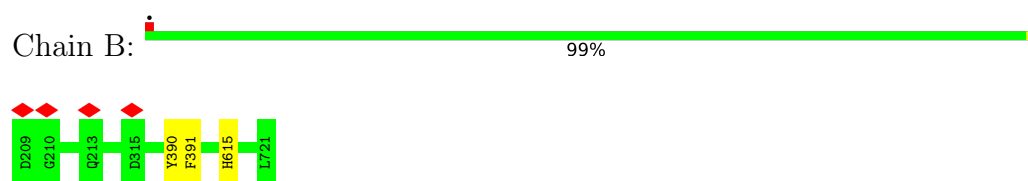
3 Residue-property plots [i](#)

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.

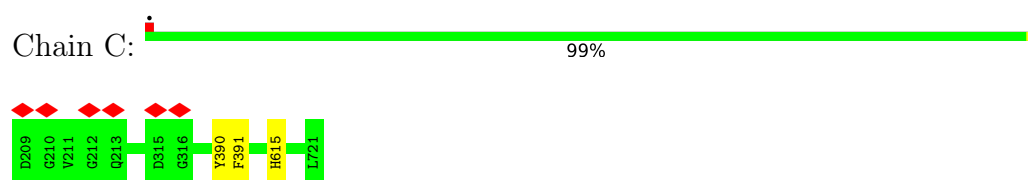
- Molecule 1: VP1 capsid



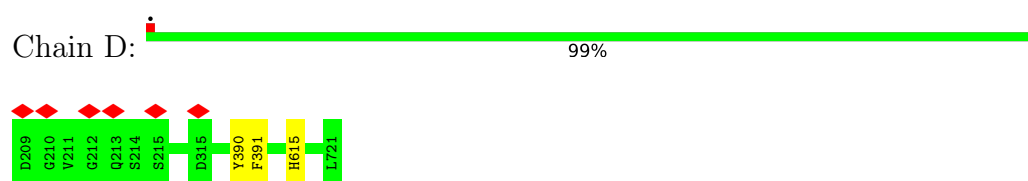
- Molecule 1: VP1 capsid



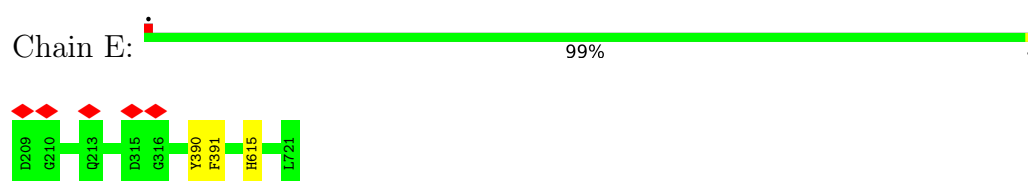
- Molecule 1: VP1 capsid



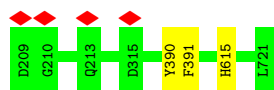
- Molecule 1: VP1 capsid



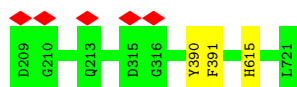
- Molecule 1: VP1 capsid



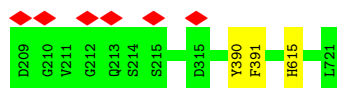
● Molecule 1: VP1 capsid

Chain F:  99%

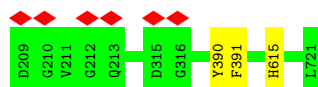
● Molecule 1: VP1 capsid

Chain G:  99%

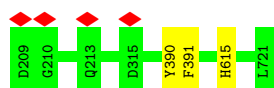
● Molecule 1: VP1 capsid

Chain H:  99%

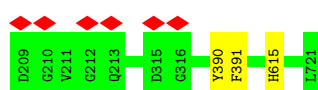
● Molecule 1: VP1 capsid

Chain I:  99%

● Molecule 1: VP1 capsid

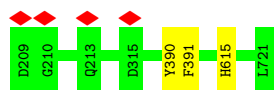
Chain J:  99%

● Molecule 1: VP1 capsid

Chain K:  99%

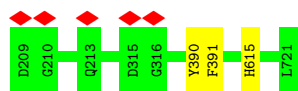
● Molecule 1: VP1 capsid

Chain L:  99%



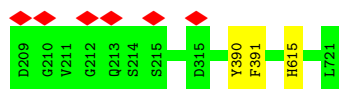
- Molecule 1: VP1 capsid

Chain M:  99%



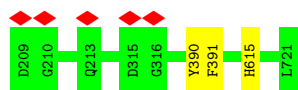
- Molecule 1: VP1 capsid

Chain N:  99%



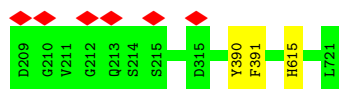
- Molecule 1: VP1 capsid

Chain O:  99%



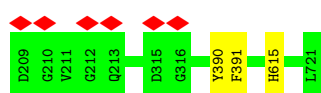
- Molecule 1: VP1 capsid

Chain P:  99%



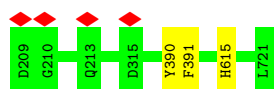
- Molecule 1: VP1 capsid

Chain Q:  99%



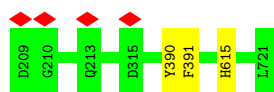
- Molecule 1: VP1 capsid

Chain R:  99%



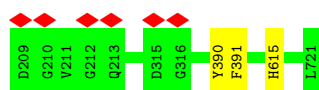
- Molecule 1: VP1 capsid

Chain S:  99%



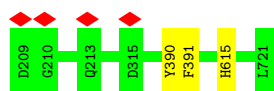
• Molecule 1: VP1 capsid

Chain T:  99%



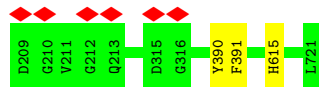
• Molecule 1: VP1 capsid

Chain U:  99%



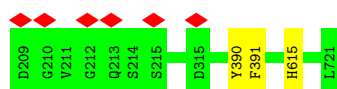
• Molecule 1: VP1 capsid

Chain V:  99%



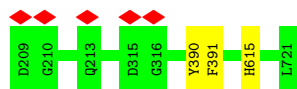
• Molecule 1: VP1 capsid

Chain W:  99%



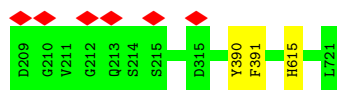
• Molecule 1: VP1 capsid

Chain X:  99%

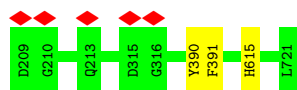


• Molecule 1: VP1 capsid

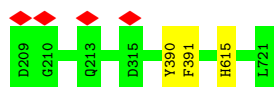
Chain Y:  99%



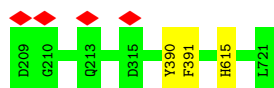
● Molecule 1: VP1 capsid

Chain Z:  99%

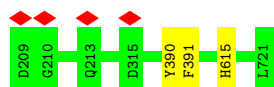
● Molecule 1: VP1 capsid

Chain a:  99%

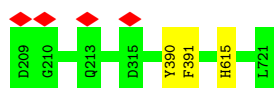
● Molecule 1: VP1 capsid

Chain b:  99%

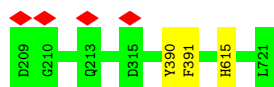
● Molecule 1: VP1 capsid

Chain c:  99%

● Molecule 1: VP1 capsid

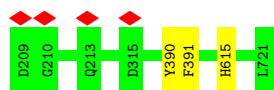
Chain d:  99%

● Molecule 1: VP1 capsid

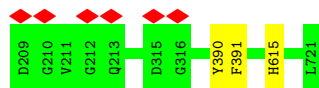
Chain e:  99%

● Molecule 1: VP1 capsid

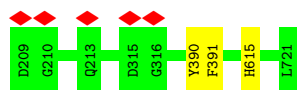
Chain f:  99%



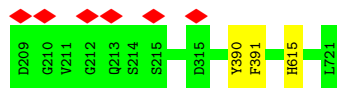
- Molecule 1: VP1 capsid



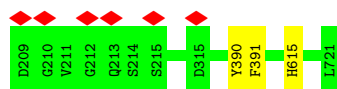
- Molecule 1: VP1 capsid



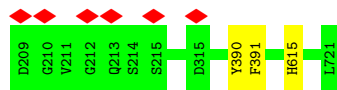
- Molecule 1: VP1 capsid



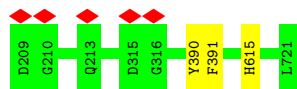
- Molecule 1: VP1 capsid



- Molecule 1: VP1 capsid

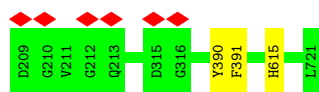


- Molecule 1: VP1 capsid



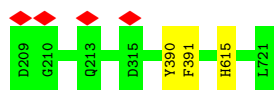
- Molecule 1: VP1 capsid

Chain m:  99%



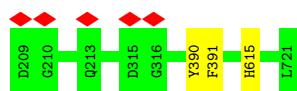
● Molecule 1: VP1 capsid

Chain n:  99%



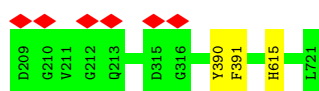
● Molecule 1: VP1 capsid

Chain o:  99%



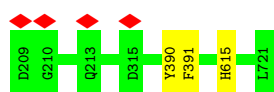
● Molecule 1: VP1 capsid

Chain p:  99%



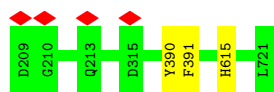
● Molecule 1: VP1 capsid

Chain q:  99%



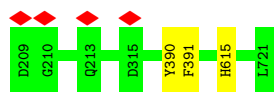
● Molecule 1: VP1 capsid

Chain r:  99%



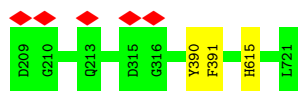
● Molecule 1: VP1 capsid

Chain s:  99%



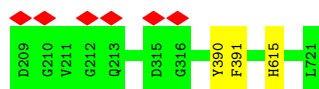
- Molecule 1: VP1 capsid

Chain t:  99%



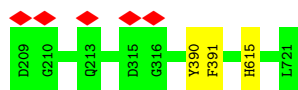
- Molecule 1: VP1 capsid

Chain u:  99%



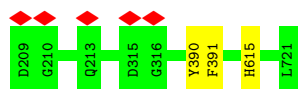
- Molecule 1: VP1 capsid

Chain v:  99%



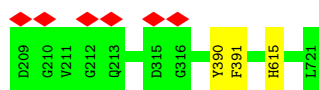
- Molecule 1: VP1 capsid

Chain w:  99%




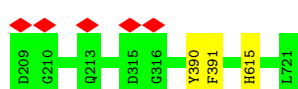
- Molecule 1: VP1 capsid

Chain x:  99%



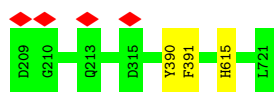
- Molecule 1: VP1 capsid

Chain y:  99%



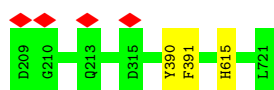
- Molecule 1: VP1 capsid

Chain z:  99%



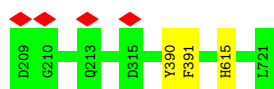
• Molecule 1: VP1 capsid

Chain 1:  99%



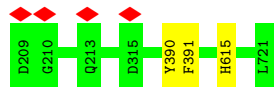
• Molecule 1: VP1 capsid

Chain 2:  99%



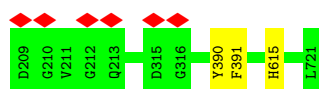
• Molecule 1: VP1 capsid

Chain 3:  99%



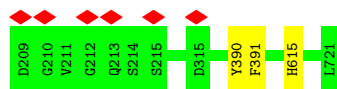
• Molecule 1: VP1 capsid

Chain 4:  99%



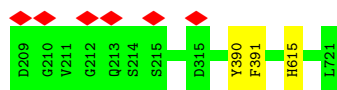
• Molecule 1: VP1 capsid

Chain 5:  99%

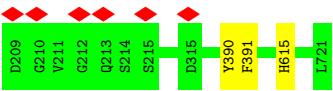


• Molecule 1: VP1 capsid

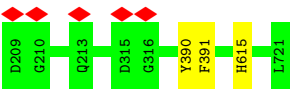
Chain 6:  99%



● Molecule 1: VP1 capsid



● Molecule 1: VP1 capsid



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	4088	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 ($e^-/\text{\AA}^2$)	75	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	13.278	Depositor
Minimum map value	-7.348	Depositor
Average map value	0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size (\AA)	425.19998, 425.19998, 425.19998	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.063, 1.063, 1.063	Depositor

5 Model quality ⓘ

5.1 Standard geometry ⓘ

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	1	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	2	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	3	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	4	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	5	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	6	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	7	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	8	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	A	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	B	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	C	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	D	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	E	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	F	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	G	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	H	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	I	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	J	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	K	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	L	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	M	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	N	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	O	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	P	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	Q	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	R	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	S	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	T	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	U	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	V	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	W	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	X	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	Y	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	Z	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	a	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	b	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	c	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	d	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	e	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	f	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	g	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	h	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	i	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	j	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	k	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	l	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	m	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	n	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	o	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	p	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	q	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	r	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	s	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	t	0.46	2/4220 (0.0%)	0.56	1/5761 (0.0%)
1	u	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	v	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	w	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	x	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	y	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
1	z	0.46	2/4220 (0.0%)	0.55	1/5761 (0.0%)
All	All	0.46	120/253200 (0.0%)	0.55	60/345660 (0.0%)

All (120) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	391	PHE	C-N	-7.27	1.20	1.34
1	V	391	PHE	C-N	-7.27	1.20	1.34
1	b	391	PHE	C-N	-7.27	1.20	1.34
1	e	391	PHE	C-N	-7.27	1.20	1.34
1	g	391	PHE	C-N	-7.27	1.20	1.34
1	p	391	PHE	C-N	-7.27	1.20	1.34
1	x	391	PHE	C-N	-7.27	1.20	1.34
1	4	391	PHE	C-N	-7.27	1.20	1.34
1	D	391	PHE	C-N	-7.27	1.20	1.34
1	W	391	PHE	C-N	-7.27	1.20	1.34
1	i	391	PHE	C-N	-7.27	1.20	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	k	391	PHE	C-N	-7.27	1.20	1.34
1	6	391	PHE	C-N	-7.27	1.20	1.34
1	7	391	PHE	C-N	-7.27	1.20	1.34
1	B	391	PHE	C-N	-7.26	1.20	1.34
1	R	391	PHE	C-N	-7.26	1.20	1.34
1	l	391	PHE	C-N	-7.26	1.20	1.34
1	w	391	PHE	C-N	-7.26	1.20	1.34
1	2	391	PHE	C-N	-7.26	1.20	1.34
1	8	391	PHE	C-N	-7.26	1.20	1.34
1	a	391	PHE	C-N	-7.26	1.20	1.34
1	c	391	PHE	C-N	-7.26	1.20	1.34
1	d	391	PHE	C-N	-7.26	1.20	1.34
1	n	391	PHE	C-N	-7.26	1.20	1.34
1	y	391	PHE	C-N	-7.26	1.20	1.34
1	3	391	PHE	C-N	-7.26	1.20	1.34
1	q	391	PHE	C-N	-7.26	1.20	1.34
1	E	391	PHE	C-N	-7.25	1.20	1.34
1	G	391	PHE	C-N	-7.25	1.20	1.34
1	M	391	PHE	C-N	-7.25	1.20	1.34
1	O	391	PHE	C-N	-7.25	1.20	1.34
1	X	391	PHE	C-N	-7.25	1.20	1.34
1	Z	391	PHE	C-N	-7.25	1.20	1.34
1	h	391	PHE	C-N	-7.25	1.20	1.34
1	o	391	PHE	C-N	-7.25	1.20	1.34
1	t	391	PHE	C-N	-7.25	1.20	1.34
1	H	391	PHE	C-N	-7.24	1.20	1.34
1	P	391	PHE	C-N	-7.24	1.20	1.34
1	I	391	PHE	C-N	-7.24	1.20	1.34
1	K	391	PHE	C-N	-7.24	1.20	1.34
1	L	391	PHE	C-N	-7.24	1.20	1.34
1	Q	391	PHE	C-N	-7.24	1.20	1.34
1	T	391	PHE	C-N	-7.24	1.20	1.34
1	U	391	PHE	C-N	-7.24	1.20	1.34
1	m	391	PHE	C-N	-7.24	1.20	1.34
1	s	391	PHE	C-N	-7.24	1.20	1.34
1	u	391	PHE	C-N	-7.24	1.20	1.34
1	J	391	PHE	C-N	-7.23	1.20	1.34
1	S	391	PHE	C-N	-7.23	1.20	1.34
1	r	391	PHE	C-N	-7.23	1.20	1.34
1	f	391	PHE	C-N	-7.23	1.20	1.34
1	v	391	PHE	C-N	-7.23	1.20	1.34
1	z	391	PHE	C-N	-7.23	1.20	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	391	PHE	C-N	-7.23	1.20	1.34
1	N	391	PHE	C-N	-7.22	1.20	1.34
1	Y	391	PHE	C-N	-7.22	1.20	1.34
1	j	391	PHE	C-N	-7.22	1.20	1.34
1	5	391	PHE	C-N	-7.22	1.20	1.34
1	A	391	PHE	C-N	-7.21	1.20	1.34
1	F	391	PHE	C-N	-7.21	1.20	1.34
1	2	615	HIS	C-N	-6.31	1.22	1.34
1	C	615	HIS	C-N	-6.29	1.22	1.34
1	V	615	HIS	C-N	-6.29	1.22	1.34
1	p	615	HIS	C-N	-6.29	1.22	1.34
1	B	615	HIS	C-N	-6.28	1.22	1.34
1	R	615	HIS	C-N	-6.28	1.22	1.34
1	q	615	HIS	C-N	-6.28	1.22	1.34
1	z	615	HIS	C-N	-6.28	1.22	1.34
1	D	615	HIS	C-N	-6.28	1.22	1.34
1	N	615	HIS	C-N	-6.28	1.22	1.34
1	W	615	HIS	C-N	-6.28	1.22	1.34
1	Y	615	HIS	C-N	-6.28	1.22	1.34
1	i	615	HIS	C-N	-6.28	1.22	1.34
1	j	615	HIS	C-N	-6.28	1.22	1.34
1	k	615	HIS	C-N	-6.28	1.22	1.34
1	6	615	HIS	C-N	-6.28	1.22	1.34
1	7	615	HIS	C-N	-6.28	1.22	1.34
1	w	615	HIS	C-N	-6.27	1.22	1.34
1	c	615	HIS	C-N	-6.27	1.22	1.34
1	d	615	HIS	C-N	-6.27	1.22	1.34
1	I	615	HIS	C-N	-6.26	1.22	1.34
1	K	615	HIS	C-N	-6.26	1.22	1.34
1	Q	615	HIS	C-N	-6.26	1.22	1.34
1	T	615	HIS	C-N	-6.26	1.22	1.34
1	g	615	HIS	C-N	-6.26	1.22	1.34
1	m	615	HIS	C-N	-6.26	1.22	1.34
1	u	615	HIS	C-N	-6.26	1.22	1.34
1	x	615	HIS	C-N	-6.26	1.22	1.34
1	4	615	HIS	C-N	-6.26	1.22	1.34
1	L	615	HIS	C-N	-6.26	1.22	1.34
1	U	615	HIS	C-N	-6.26	1.22	1.34
1	r	615	HIS	C-N	-6.26	1.22	1.34
1	s	615	HIS	C-N	-6.26	1.22	1.34
1	F	615	HIS	C-N	-6.26	1.22	1.34
1	J	615	HIS	C-N	-6.26	1.22	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	S	615	HIS	C-N	-6.26	1.22	1.34
1	f	615	HIS	C-N	-6.26	1.22	1.34
1	n	615	HIS	C-N	-6.26	1.22	1.34
1	H	615	HIS	C-N	-6.24	1.22	1.34
1	P	615	HIS	C-N	-6.24	1.22	1.34
1	l	615	HIS	C-N	-6.24	1.22	1.34
1	5	615	HIS	C-N	-6.24	1.22	1.34
1	E	615	HIS	C-N	-6.23	1.22	1.34
1	G	615	HIS	C-N	-6.23	1.22	1.34
1	M	615	HIS	C-N	-6.23	1.22	1.34
1	O	615	HIS	C-N	-6.23	1.22	1.34
1	X	615	HIS	C-N	-6.23	1.22	1.34
1	Z	615	HIS	C-N	-6.23	1.22	1.34
1	b	615	HIS	C-N	-6.23	1.22	1.34
1	e	615	HIS	C-N	-6.23	1.22	1.34
1	h	615	HIS	C-N	-6.23	1.22	1.34
1	l	615	HIS	C-N	-6.23	1.22	1.34
1	o	615	HIS	C-N	-6.23	1.22	1.34
1	t	615	HIS	C-N	-6.23	1.22	1.34
1	8	615	HIS	C-N	-6.23	1.22	1.34
1	A	615	HIS	C-N	-6.22	1.22	1.34
1	a	615	HIS	C-N	-6.22	1.22	1.34
1	v	615	HIS	C-N	-6.22	1.22	1.34
1	y	615	HIS	C-N	-6.22	1.22	1.34
1	3	615	HIS	C-N	-6.22	1.22	1.34

All (60) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	390	TYR	C-N-CA	5.76	136.09	121.70
1	R	390	TYR	C-N-CA	5.76	136.09	121.70
1	q	390	TYR	C-N-CA	5.76	136.09	121.70
1	g	390	TYR	C-N-CA	5.75	136.08	121.70
1	A	390	TYR	C-N-CA	5.75	136.07	121.70
1	F	390	TYR	C-N-CA	5.75	136.07	121.70
1	v	390	TYR	C-N-CA	5.75	136.07	121.70
1	E	390	TYR	C-N-CA	5.75	136.06	121.70
1	G	390	TYR	C-N-CA	5.75	136.06	121.70
1	f	390	TYR	C-N-CA	5.74	136.04	121.70
1	I	390	TYR	C-N-CA	5.74	136.04	121.70
1	K	390	TYR	C-N-CA	5.74	136.04	121.70
1	Q	390	TYR	C-N-CA	5.74	136.04	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	T	390	TYR	C-N-CA	5.74	136.04	121.70
1	m	390	TYR	C-N-CA	5.74	136.04	121.70
1	x	390	TYR	C-N-CA	5.74	136.04	121.70
1	w	390	TYR	C-N-CA	5.73	136.03	121.70
1	4	390	TYR	C-N-CA	5.73	136.02	121.70
1	J	390	TYR	C-N-CA	5.73	136.02	121.70
1	S	390	TYR	C-N-CA	5.73	136.02	121.70
1	r	390	TYR	C-N-CA	5.73	136.02	121.70
1	s	390	TYR	C-N-CA	5.73	136.02	121.70
1	z	390	TYR	C-N-CA	5.73	136.02	121.70
1	l	390	TYR	C-N-CA	5.73	136.02	121.70
1	C	390	TYR	C-N-CA	5.72	136.01	121.70
1	D	390	TYR	C-N-CA	5.72	136.01	121.70
1	L	390	TYR	C-N-CA	5.72	136.01	121.70
1	N	390	TYR	C-N-CA	5.72	136.01	121.70
1	U	390	TYR	C-N-CA	5.72	136.01	121.70
1	V	390	TYR	C-N-CA	5.72	136.01	121.70
1	W	390	TYR	C-N-CA	5.72	136.01	121.70
1	Y	390	TYR	C-N-CA	5.72	136.01	121.70
1	i	390	TYR	C-N-CA	5.72	136.01	121.70
1	k	390	TYR	C-N-CA	5.72	136.01	121.70
1	p	390	TYR	C-N-CA	5.72	136.01	121.70
1	y	390	TYR	C-N-CA	5.72	136.01	121.70
1	6	390	TYR	C-N-CA	5.72	136.01	121.70
1	7	390	TYR	C-N-CA	5.72	136.01	121.70
1	M	390	TYR	C-N-CA	5.72	136.01	121.70
1	O	390	TYR	C-N-CA	5.72	136.01	121.70
1	X	390	TYR	C-N-CA	5.72	136.01	121.70
1	Z	390	TYR	C-N-CA	5.72	136.01	121.70
1	h	390	TYR	C-N-CA	5.72	136.01	121.70
1	l	390	TYR	C-N-CA	5.72	136.01	121.70
1	o	390	TYR	C-N-CA	5.72	136.01	121.70
1	t	390	TYR	C-N-CA	5.72	136.01	121.70
1	8	390	TYR	C-N-CA	5.72	136.01	121.70
1	u	390	TYR	C-N-CA	5.72	136.00	121.70
1	2	390	TYR	C-N-CA	5.71	135.98	121.70
1	H	390	TYR	C-N-CA	5.71	135.97	121.70
1	P	390	TYR	C-N-CA	5.71	135.97	121.70
1	a	390	TYR	C-N-CA	5.71	135.97	121.70
1	b	390	TYR	C-N-CA	5.71	135.97	121.70
1	c	390	TYR	C-N-CA	5.71	135.97	121.70
1	d	390	TYR	C-N-CA	5.71	135.97	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	e	390	TYR	C-N-CA	5.71	135.97	121.70
1	j	390	TYR	C-N-CA	5.71	135.97	121.70
1	n	390	TYR	C-N-CA	5.71	135.97	121.70
1	3	390	TYR	C-N-CA	5.71	135.97	121.70
1	5	390	TYR	C-N-CA	5.71	135.97	121.70

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	Percentiles	
1	1	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	2	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	3	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	4	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	5	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	6	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	7	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	8	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	A	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	B	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	C	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	D	512/513 (100%)	498 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	F	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	G	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	H	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	I	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	J	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	K	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	L	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	M	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	N	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	O	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	P	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	Q	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	R	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	S	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	T	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	U	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	V	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	W	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	X	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	Y	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	Z	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	a	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	b	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	c	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	d	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	e	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	f	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	g	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	h	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	i	512/513 (100%)	498 (97%)	14 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	j	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	k	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	l	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	m	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	n	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	o	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	p	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	q	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	r	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	s	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	t	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	u	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	v	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	w	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	x	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	y	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
1	z	512/513 (100%)	498 (97%)	14 (3%)	0	100	100
All	All	30720/30780 (100%)	29880 (97%)	840 (3%)	0	100	100

There are no Ramachandran outliers to report.

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	1	440/439 (100%)	440 (100%)	0	100	100
1	2	440/439 (100%)	440 (100%)	0	100	100
1	3	440/439 (100%)	440 (100%)	0	100	100
1	4	440/439 (100%)	440 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	5	440/439 (100%)	440 (100%)	0	100	100
1	6	440/439 (100%)	440 (100%)	0	100	100
1	7	440/439 (100%)	440 (100%)	0	100	100
1	8	440/439 (100%)	440 (100%)	0	100	100
1	A	440/439 (100%)	440 (100%)	0	100	100
1	B	440/439 (100%)	440 (100%)	0	100	100
1	C	440/439 (100%)	440 (100%)	0	100	100
1	D	440/439 (100%)	440 (100%)	0	100	100
1	E	440/439 (100%)	440 (100%)	0	100	100
1	F	440/439 (100%)	440 (100%)	0	100	100
1	G	440/439 (100%)	440 (100%)	0	100	100
1	H	440/439 (100%)	440 (100%)	0	100	100
1	I	440/439 (100%)	440 (100%)	0	100	100
1	J	440/439 (100%)	440 (100%)	0	100	100
1	K	440/439 (100%)	440 (100%)	0	100	100
1	L	440/439 (100%)	440 (100%)	0	100	100
1	M	440/439 (100%)	440 (100%)	0	100	100
1	N	440/439 (100%)	440 (100%)	0	100	100
1	O	440/439 (100%)	440 (100%)	0	100	100
1	P	440/439 (100%)	440 (100%)	0	100	100
1	Q	440/439 (100%)	440 (100%)	0	100	100
1	R	440/439 (100%)	440 (100%)	0	100	100
1	S	440/439 (100%)	440 (100%)	0	100	100
1	T	440/439 (100%)	440 (100%)	0	100	100
1	U	440/439 (100%)	440 (100%)	0	100	100
1	V	440/439 (100%)	440 (100%)	0	100	100
1	W	440/439 (100%)	440 (100%)	0	100	100
1	X	440/439 (100%)	440 (100%)	0	100	100
1	Y	440/439 (100%)	440 (100%)	0	100	100
1	Z	440/439 (100%)	440 (100%)	0	100	100
1	a	440/439 (100%)	440 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	b	440/439 (100%)	440 (100%)	0	100	100
1	c	440/439 (100%)	440 (100%)	0	100	100
1	d	440/439 (100%)	440 (100%)	0	100	100
1	e	440/439 (100%)	440 (100%)	0	100	100
1	f	440/439 (100%)	440 (100%)	0	100	100
1	g	440/439 (100%)	440 (100%)	0	100	100
1	h	440/439 (100%)	440 (100%)	0	100	100
1	i	440/439 (100%)	440 (100%)	0	100	100
1	j	440/439 (100%)	440 (100%)	0	100	100
1	k	440/439 (100%)	440 (100%)	0	100	100
1	l	440/439 (100%)	440 (100%)	0	100	100
1	m	440/439 (100%)	440 (100%)	0	100	100
1	n	440/439 (100%)	440 (100%)	0	100	100
1	o	440/439 (100%)	440 (100%)	0	100	100
1	p	440/439 (100%)	440 (100%)	0	100	100
1	q	440/439 (100%)	440 (100%)	0	100	100
1	r	440/439 (100%)	440 (100%)	0	100	100
1	s	440/439 (100%)	440 (100%)	0	100	100
1	t	440/439 (100%)	440 (100%)	0	100	100
1	u	440/439 (100%)	440 (100%)	0	100	100
1	v	440/439 (100%)	440 (100%)	0	100	100
1	w	440/439 (100%)	440 (100%)	0	100	100
1	x	440/439 (100%)	440 (100%)	0	100	100
1	y	440/439 (100%)	440 (100%)	0	100	100
1	z	440/439 (100%)	440 (100%)	0	100	100
All	All	26400/26340 (100%)	26400 (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 (779) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	276	HIS

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Mol	Chain	Res	Type
1	A	289	ASN
1	A	290	ASN
1	A	307	GLN
1	A	346	HIS
1	A	376	ASN
1	A	420	ASN
1	A	473	GLN
1	A	509	ASN
1	A	560	ASN
1	A	593	GLN
1	A	631	GLN
1	A	702	ASN
1	B	276	HIS
1	B	289	ASN
1	B	290	ASN
1	B	307	GLN
1	B	346	HIS
1	B	376	ASN
1	B	420	ASN
1	B	509	ASN
1	B	560	ASN
1	B	593	GLN
1	B	631	GLN
1	B	702	ASN
1	C	276	HIS
1	C	289	ASN
1	C	290	ASN
1	C	307	GLN
1	C	329	GLN
1	C	346	HIS
1	C	376	ASN
1	C	420	ASN
1	C	473	GLN
1	C	509	ASN
1	C	560	ASN
1	C	593	GLN
1	C	631	GLN
1	C	702	ASN
1	D	276	HIS
1	D	289	ASN
1	D	290	ASN
1	D	307	GLN

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Mol	Chain	Res	Type
1	D	346	HIS
1	D	376	ASN
1	D	420	ASN
1	D	473	GLN
1	D	509	ASN
1	D	560	ASN
1	D	593	GLN
1	D	631	GLN
1	D	702	ASN
1	E	276	HIS
1	E	289	ASN
1	E	290	ASN
1	E	307	GLN
1	E	346	HIS
1	E	376	ASN
1	E	420	ASN
1	E	473	GLN
1	E	509	ASN
1	E	560	ASN
1	E	593	GLN
1	E	631	GLN
1	E	702	ASN
1	F	276	HIS
1	F	289	ASN
1	F	290	ASN
1	F	307	GLN
1	F	346	HIS
1	F	376	ASN
1	F	420	ASN
1	F	473	GLN
1	F	509	ASN
1	F	560	ASN
1	F	593	GLN
1	F	631	GLN
1	F	702	ASN
1	G	276	HIS
1	G	289	ASN
1	G	290	ASN
1	G	307	GLN
1	G	346	HIS
1	G	376	ASN
1	G	420	ASN

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Mol	Chain	Res	Type
1	G	473	GLN
1	G	509	ASN
1	G	560	ASN
1	G	593	GLN
1	G	631	GLN
1	G	702	ASN
1	H	276	HIS
1	H	289	ASN
1	H	290	ASN
1	H	307	GLN
1	H	346	HIS
1	H	376	ASN
1	H	420	ASN
1	H	473	GLN
1	H	509	ASN
1	H	560	ASN
1	H	593	GLN
1	H	631	GLN
1	H	702	ASN
1	I	276	HIS
1	I	289	ASN
1	I	290	ASN
1	I	307	GLN
1	I	346	HIS
1	I	376	ASN
1	I	420	ASN
1	I	473	GLN
1	I	509	ASN
1	I	560	ASN
1	I	593	GLN
1	I	631	GLN
1	I	702	ASN
1	J	276	HIS
1	J	289	ASN
1	J	290	ASN
1	J	307	GLN
1	J	346	HIS
1	J	376	ASN
1	J	420	ASN
1	J	473	GLN
1	J	509	ASN
1	J	560	ASN

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Mol	Chain	Res	Type
1	J	593	GLN
1	J	631	GLN
1	J	702	ASN
1	K	276	HIS
1	K	289	ASN
1	K	290	ASN
1	K	307	GLN
1	K	346	HIS
1	K	376	ASN
1	K	420	ASN
1	K	473	GLN
1	K	509	ASN
1	K	560	ASN
1	K	593	GLN
1	K	631	GLN
1	K	702	ASN
1	L	276	HIS
1	L	289	ASN
1	L	290	ASN
1	L	307	GLN
1	L	346	HIS
1	L	376	ASN
1	L	420	ASN
1	L	473	GLN
1	L	509	ASN
1	L	560	ASN
1	L	593	GLN
1	L	631	GLN
1	L	702	ASN
1	M	276	HIS
1	M	289	ASN
1	M	290	ASN
1	M	307	GLN
1	M	346	HIS
1	M	376	ASN
1	M	420	ASN
1	M	473	GLN
1	M	509	ASN
1	M	560	ASN
1	M	593	GLN
1	M	631	GLN
1	M	702	ASN

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Mol	Chain	Res	Type
1	N	276	HIS
1	N	289	ASN
1	N	290	ASN
1	N	307	GLN
1	N	346	HIS
1	N	376	ASN
1	N	420	ASN
1	N	473	GLN
1	N	509	ASN
1	N	560	ASN
1	N	593	GLN
1	N	631	GLN
1	N	702	ASN
1	O	276	HIS
1	O	289	ASN
1	O	290	ASN
1	O	307	GLN
1	O	346	HIS
1	O	376	ASN
1	O	420	ASN
1	O	473	GLN
1	O	509	ASN
1	O	560	ASN
1	O	593	GLN
1	O	631	GLN
1	O	702	ASN
1	P	276	HIS
1	P	289	ASN
1	P	290	ASN
1	P	307	GLN
1	P	329	GLN
1	P	346	HIS
1	P	376	ASN
1	P	420	ASN
1	P	473	GLN
1	P	509	ASN
1	P	560	ASN
1	P	593	GLN
1	P	631	GLN
1	P	702	ASN
1	Q	276	HIS
1	Q	289	ASN

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Mol	Chain	Res	Type
1	Q	290	ASN
1	Q	307	GLN
1	Q	346	HIS
1	Q	376	ASN
1	Q	420	ASN
1	Q	473	GLN
1	Q	509	ASN
1	Q	560	ASN
1	Q	593	GLN
1	Q	631	GLN
1	Q	702	ASN
1	R	276	HIS
1	R	289	ASN
1	R	290	ASN
1	R	307	GLN
1	R	346	HIS
1	R	376	ASN
1	R	420	ASN
1	R	473	GLN
1	R	509	ASN
1	R	560	ASN
1	R	593	GLN
1	R	631	GLN
1	R	702	ASN
1	S	276	HIS
1	S	289	ASN
1	S	290	ASN
1	S	307	GLN
1	S	346	HIS
1	S	376	ASN
1	S	420	ASN
1	S	473	GLN
1	S	509	ASN
1	S	560	ASN
1	S	593	GLN
1	S	631	GLN
1	S	702	ASN
1	T	276	HIS
1	T	289	ASN
1	T	290	ASN
1	T	307	GLN
1	T	346	HIS

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Mol	Chain	Res	Type
1	T	376	ASN
1	T	420	ASN
1	T	473	GLN
1	T	509	ASN
1	T	560	ASN
1	T	593	GLN
1	T	631	GLN
1	T	702	ASN
1	U	276	HIS
1	U	289	ASN
1	U	290	ASN
1	U	307	GLN
1	U	346	HIS
1	U	376	ASN
1	U	420	ASN
1	U	473	GLN
1	U	509	ASN
1	U	560	ASN
1	U	593	GLN
1	U	631	GLN
1	U	702	ASN
1	V	276	HIS
1	V	289	ASN
1	V	290	ASN
1	V	307	GLN
1	V	346	HIS
1	V	376	ASN
1	V	420	ASN
1	V	473	GLN
1	V	509	ASN
1	V	560	ASN
1	V	593	GLN
1	V	631	GLN
1	V	702	ASN
1	W	276	HIS
1	W	289	ASN
1	W	290	ASN
1	W	307	GLN
1	W	329	GLN
1	W	346	HIS
1	W	376	ASN
1	W	420	ASN

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Mol	Chain	Res	Type
1	W	509	ASN
1	W	560	ASN
1	W	593	GLN
1	W	631	GLN
1	W	702	ASN
1	X	276	HIS
1	X	289	ASN
1	X	290	ASN
1	X	307	GLN
1	X	346	HIS
1	X	376	ASN
1	X	420	ASN
1	X	473	GLN
1	X	509	ASN
1	X	560	ASN
1	X	593	GLN
1	X	631	GLN
1	X	702	ASN
1	Y	276	HIS
1	Y	289	ASN
1	Y	290	ASN
1	Y	307	GLN
1	Y	346	HIS
1	Y	376	ASN
1	Y	420	ASN
1	Y	473	GLN
1	Y	509	ASN
1	Y	560	ASN
1	Y	593	GLN
1	Y	631	GLN
1	Y	702	ASN
1	Z	276	HIS
1	Z	289	ASN
1	Z	290	ASN
1	Z	307	GLN
1	Z	346	HIS
1	Z	376	ASN
1	Z	420	ASN
1	Z	473	GLN
1	Z	509	ASN
1	Z	560	ASN
1	Z	593	GLN

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Mol	Chain	Res	Type
1	Z	631	GLN
1	Z	702	ASN
1	a	276	HIS
1	a	289	ASN
1	a	290	ASN
1	a	307	GLN
1	a	346	HIS
1	a	376	ASN
1	a	420	ASN
1	a	473	GLN
1	a	509	ASN
1	a	560	ASN
1	a	593	GLN
1	a	631	GLN
1	a	702	ASN
1	b	276	HIS
1	b	289	ASN
1	b	290	ASN
1	b	307	GLN
1	b	346	HIS
1	b	376	ASN
1	b	420	ASN
1	b	473	GLN
1	b	509	ASN
1	b	560	ASN
1	b	593	GLN
1	b	631	GLN
1	b	702	ASN
1	c	276	HIS
1	c	289	ASN
1	c	290	ASN
1	c	307	GLN
1	c	346	HIS
1	c	376	ASN
1	c	420	ASN
1	c	473	GLN
1	c	509	ASN
1	c	560	ASN
1	c	593	GLN
1	c	631	GLN
1	c	702	ASN
1	d	276	HIS

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Mol	Chain	Res	Type
1	d	289	ASN
1	d	290	ASN
1	d	307	GLN
1	d	346	HIS
1	d	376	ASN
1	d	420	ASN
1	d	473	GLN
1	d	509	ASN
1	d	560	ASN
1	d	593	GLN
1	d	631	GLN
1	d	702	ASN
1	e	276	HIS
1	e	289	ASN
1	e	290	ASN
1	e	307	GLN
1	e	346	HIS
1	e	376	ASN
1	e	420	ASN
1	e	473	GLN
1	e	509	ASN
1	e	560	ASN
1	e	593	GLN
1	e	631	GLN
1	e	702	ASN
1	f	276	HIS
1	f	289	ASN
1	f	290	ASN
1	f	307	GLN
1	f	346	HIS
1	f	376	ASN
1	f	420	ASN
1	f	473	GLN
1	f	509	ASN
1	f	560	ASN
1	f	593	GLN
1	f	631	GLN
1	f	702	ASN
1	g	276	HIS
1	g	289	ASN
1	g	290	ASN
1	g	307	GLN

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Mol	Chain	Res	Type
1	g	346	HIS
1	g	376	ASN
1	g	420	ASN
1	g	473	GLN
1	g	509	ASN
1	g	560	ASN
1	g	593	GLN
1	g	631	GLN
1	g	702	ASN
1	h	276	HIS
1	h	289	ASN
1	h	290	ASN
1	h	307	GLN
1	h	346	HIS
1	h	376	ASN
1	h	420	ASN
1	h	473	GLN
1	h	509	ASN
1	h	560	ASN
1	h	593	GLN
1	h	631	GLN
1	h	702	ASN
1	i	276	HIS
1	i	289	ASN
1	i	290	ASN
1	i	307	GLN
1	i	346	HIS
1	i	376	ASN
1	i	420	ASN
1	i	473	GLN
1	i	509	ASN
1	i	560	ASN
1	i	593	GLN
1	i	631	GLN
1	i	702	ASN
1	j	276	HIS
1	j	289	ASN
1	j	290	ASN
1	j	307	GLN
1	j	346	HIS
1	j	376	ASN
1	j	420	ASN

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Mol	Chain	Res	Type
1	j	473	GLN
1	j	509	ASN
1	j	560	ASN
1	j	593	GLN
1	j	631	GLN
1	j	702	ASN
1	k	276	HIS
1	k	289	ASN
1	k	290	ASN
1	k	307	GLN
1	k	346	HIS
1	k	376	ASN
1	k	420	ASN
1	k	473	GLN
1	k	509	ASN
1	k	560	ASN
1	k	593	GLN
1	k	631	GLN
1	k	702	ASN
1	l	276	HIS
1	l	289	ASN
1	l	290	ASN
1	l	307	GLN
1	l	346	HIS
1	l	376	ASN
1	l	420	ASN
1	l	473	GLN
1	l	509	ASN
1	l	560	ASN
1	l	593	GLN
1	l	631	GLN
1	l	702	ASN
1	m	276	HIS
1	m	289	ASN
1	m	290	ASN
1	m	307	GLN
1	m	346	HIS
1	m	376	ASN
1	m	420	ASN
1	m	473	GLN
1	m	509	ASN
1	m	560	ASN

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Mol	Chain	Res	Type
1	m	593	GLN
1	m	631	GLN
1	m	702	ASN
1	n	276	HIS
1	n	289	ASN
1	n	290	ASN
1	n	307	GLN
1	n	346	HIS
1	n	376	ASN
1	n	420	ASN
1	n	473	GLN
1	n	509	ASN
1	n	560	ASN
1	n	593	GLN
1	n	631	GLN
1	n	702	ASN
1	o	276	HIS
1	o	289	ASN
1	o	290	ASN
1	o	307	GLN
1	o	346	HIS
1	o	376	ASN
1	o	420	ASN
1	o	473	GLN
1	o	509	ASN
1	o	560	ASN
1	o	593	GLN
1	o	631	GLN
1	o	702	ASN
1	p	276	HIS
1	p	289	ASN
1	p	290	ASN
1	p	307	GLN
1	p	346	HIS
1	p	376	ASN
1	p	420	ASN
1	p	473	GLN
1	p	509	ASN
1	p	560	ASN
1	p	593	GLN
1	p	631	GLN
1	p	702	ASN

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Mol	Chain	Res	Type
1	q	276	HIS
1	q	289	ASN
1	q	290	ASN
1	q	307	GLN
1	q	346	HIS
1	q	376	ASN
1	q	420	ASN
1	q	473	GLN
1	q	509	ASN
1	q	560	ASN
1	q	593	GLN
1	q	631	GLN
1	q	702	ASN
1	r	276	HIS
1	r	289	ASN
1	r	290	ASN
1	r	307	GLN
1	r	346	HIS
1	r	376	ASN
1	r	420	ASN
1	r	473	GLN
1	r	509	ASN
1	r	560	ASN
1	r	593	GLN
1	r	631	GLN
1	r	702	ASN
1	s	276	HIS
1	s	289	ASN
1	s	290	ASN
1	s	307	GLN
1	s	346	HIS
1	s	376	ASN
1	s	420	ASN
1	s	473	GLN
1	s	509	ASN
1	s	560	ASN
1	s	593	GLN
1	s	631	GLN
1	s	702	ASN
1	t	276	HIS
1	t	289	ASN
1	t	290	ASN

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Mol	Chain	Res	Type
1	t	307	GLN
1	t	346	HIS
1	t	376	ASN
1	t	420	ASN
1	t	473	GLN
1	t	509	ASN
1	t	560	ASN
1	t	593	GLN
1	t	631	GLN
1	t	702	ASN
1	u	276	HIS
1	u	289	ASN
1	u	290	ASN
1	u	307	GLN
1	u	346	HIS
1	u	376	ASN
1	u	420	ASN
1	u	473	GLN
1	u	509	ASN
1	u	560	ASN
1	u	593	GLN
1	u	631	GLN
1	u	702	ASN
1	v	276	HIS
1	v	289	ASN
1	v	290	ASN
1	v	307	GLN
1	v	346	HIS
1	v	376	ASN
1	v	420	ASN
1	v	509	ASN
1	v	560	ASN
1	v	593	GLN
1	v	631	GLN
1	v	702	ASN
1	w	276	HIS
1	w	289	ASN
1	w	290	ASN
1	w	307	GLN
1	w	346	HIS
1	w	376	ASN
1	w	420	ASN

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Mol	Chain	Res	Type
1	w	473	GLN
1	w	509	ASN
1	w	560	ASN
1	w	593	GLN
1	w	631	GLN
1	w	702	ASN
1	x	276	HIS
1	x	289	ASN
1	x	290	ASN
1	x	307	GLN
1	x	329	GLN
1	x	346	HIS
1	x	376	ASN
1	x	420	ASN
1	x	509	ASN
1	x	560	ASN
1	x	593	GLN
1	x	631	GLN
1	x	702	ASN
1	y	276	HIS
1	y	289	ASN
1	y	290	ASN
1	y	307	GLN
1	y	346	HIS
1	y	376	ASN
1	y	420	ASN
1	y	473	GLN
1	y	509	ASN
1	y	560	ASN
1	y	593	GLN
1	y	631	GLN
1	y	702	ASN
1	z	276	HIS
1	z	289	ASN
1	z	290	ASN
1	z	307	GLN
1	z	346	HIS
1	z	376	ASN
1	z	420	ASN
1	z	473	GLN
1	z	509	ASN
1	z	560	ASN

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Mol	Chain	Res	Type
1	z	593	GLN
1	z	631	GLN
1	z	702	ASN
1	1	276	HIS
1	1	289	ASN
1	1	290	ASN
1	1	307	GLN
1	1	329	GLN
1	1	346	HIS
1	1	376	ASN
1	1	420	ASN
1	1	509	ASN
1	1	560	ASN
1	1	593	GLN
1	1	631	GLN
1	1	702	ASN
1	2	276	HIS
1	2	289	ASN
1	2	290	ASN
1	2	307	GLN
1	2	346	HIS
1	2	376	ASN
1	2	420	ASN
1	2	473	GLN
1	2	509	ASN
1	2	560	ASN
1	2	593	GLN
1	2	631	GLN
1	2	702	ASN
1	3	276	HIS
1	3	289	ASN
1	3	290	ASN
1	3	307	GLN
1	3	346	HIS
1	3	376	ASN
1	3	420	ASN
1	3	473	GLN
1	3	509	ASN
1	3	560	ASN
1	3	593	GLN
1	3	631	GLN
1	3	702	ASN

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Mol	Chain	Res	Type
1	4	276	HIS
1	4	289	ASN
1	4	290	ASN
1	4	307	GLN
1	4	346	HIS
1	4	376	ASN
1	4	420	ASN
1	4	473	GLN
1	4	509	ASN
1	4	560	ASN
1	4	593	GLN
1	4	631	GLN
1	4	702	ASN
1	5	276	HIS
1	5	289	ASN
1	5	290	ASN
1	5	307	GLN
1	5	346	HIS
1	5	376	ASN
1	5	420	ASN
1	5	473	GLN
1	5	509	ASN
1	5	560	ASN
1	5	593	GLN
1	5	631	GLN
1	5	702	ASN
1	6	276	HIS
1	6	289	ASN
1	6	290	ASN
1	6	307	GLN
1	6	346	HIS
1	6	376	ASN
1	6	420	ASN
1	6	509	ASN
1	6	560	ASN
1	6	593	GLN
1	6	631	GLN
1	6	702	ASN
1	7	276	HIS
1	7	289	ASN
1	7	290	ASN
1	7	307	GLN

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Mol	Chain	Res	Type
1	7	346	HIS
1	7	376	ASN
1	7	420	ASN
1	7	473	GLN
1	7	509	ASN
1	7	560	ASN
1	7	593	GLN
1	7	631	GLN
1	7	702	ASN
1	8	276	HIS
1	8	289	ASN
1	8	290	ASN
1	8	307	GLN
1	8	346	HIS
1	8	376	ASN
1	8	420	ASN
1	8	473	GLN
1	8	509	ASN
1	8	560	ASN
1	8	593	GLN
1	8	631	GLN
1	8	702	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 [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	B	1
1	C	1
1	D	1
1	R	1
1	V	1
1	W	1
1	b	1
1	e	1
1	g	1
1	i	1
1	k	1
1	l	1
1	p	1
1	w	1
1	x	1
1	2	1
1	4	1
1	6	1
1	7	1
1	8	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B	391:PHE	C	392:PRO	N	1.20
1	C	391:PHE	C	392:PRO	N	1.20
1	D	391:PHE	C	392:PRO	N	1.20
1	R	391:PHE	C	392:PRO	N	1.20
1	V	391:PHE	C	392:PRO	N	1.20
1	W	391:PHE	C	392:PRO	N	1.20
1	b	391:PHE	C	392:PRO	N	1.20
1	e	391:PHE	C	392:PRO	N	1.20
1	g	391:PHE	C	392:PRO	N	1.20
1	i	391:PHE	C	392:PRO	N	1.20
1	k	391:PHE	C	392:PRO	N	1.20

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	l	391:PHE	C	392:PRO	N	1.20
1	p	391:PHE	C	392:PRO	N	1.20
1	w	391:PHE	C	392:PRO	N	1.20
1	x	391:PHE	C	392:PRO	N	1.20
1	2	391:PHE	C	392:PRO	N	1.20
1	4	391:PHE	C	392:PRO	N	1.20
1	6	391:PHE	C	392:PRO	N	1.20
1	7	391:PHE	C	392:PRO	N	1.20
1	8	391:PHE	C	392:PRO	N	1.20

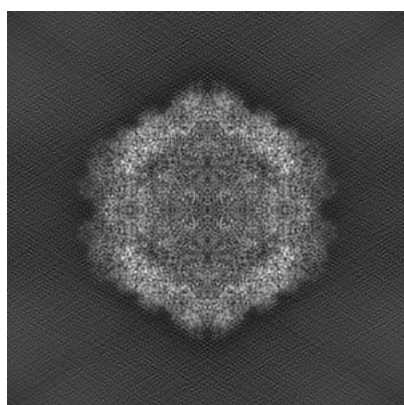
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-21657. These allow visual inspection of the internal detail of the map and identification of artifacts.

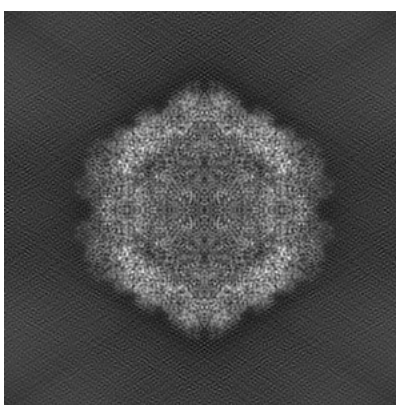
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

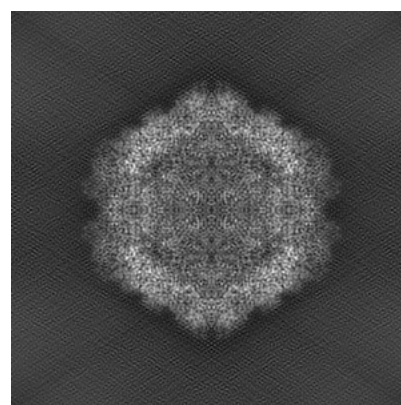
6.1.1 Primary map



X



Y

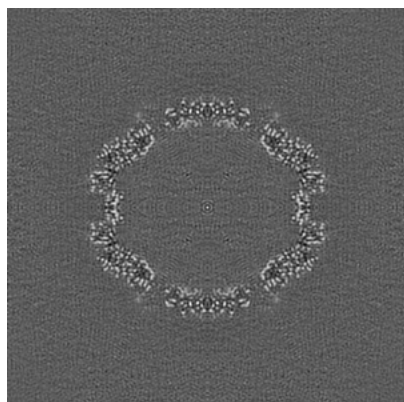


Z

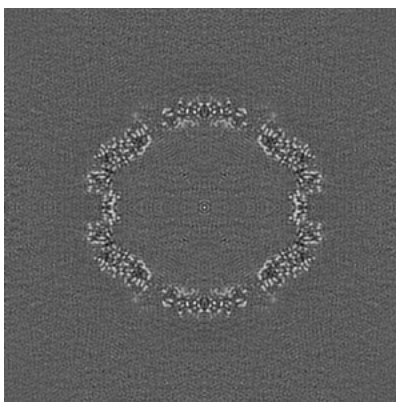
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

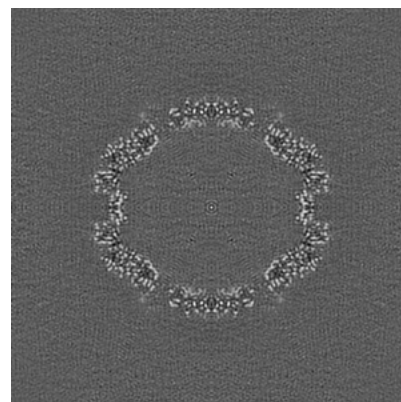
6.2.1 Primary map



X Index: 200



Y Index: 200

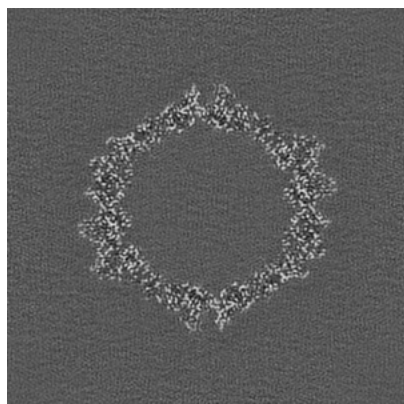


Z Index: 200

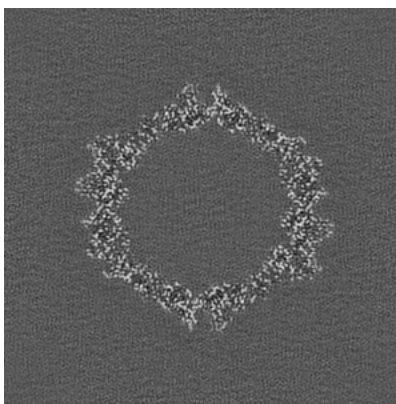
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

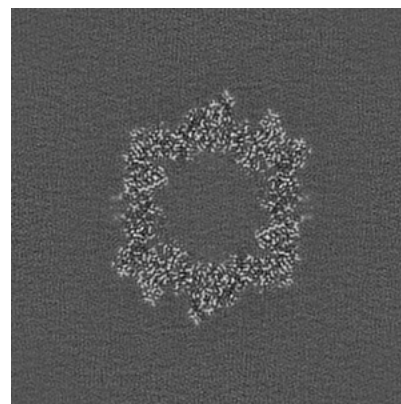
6.3.1 Primary map



X Index: 214



Y Index: 186

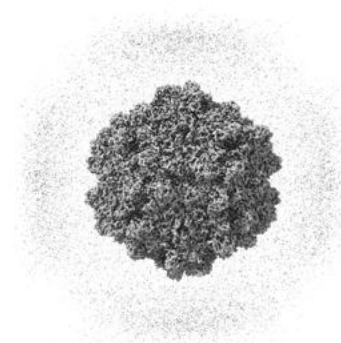


Z Index: 262

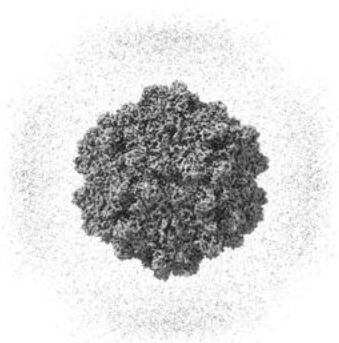
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

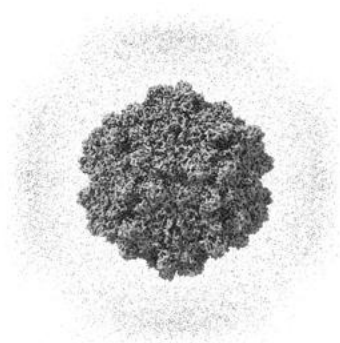
6.4.1 Primary map



X



Y



Z

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

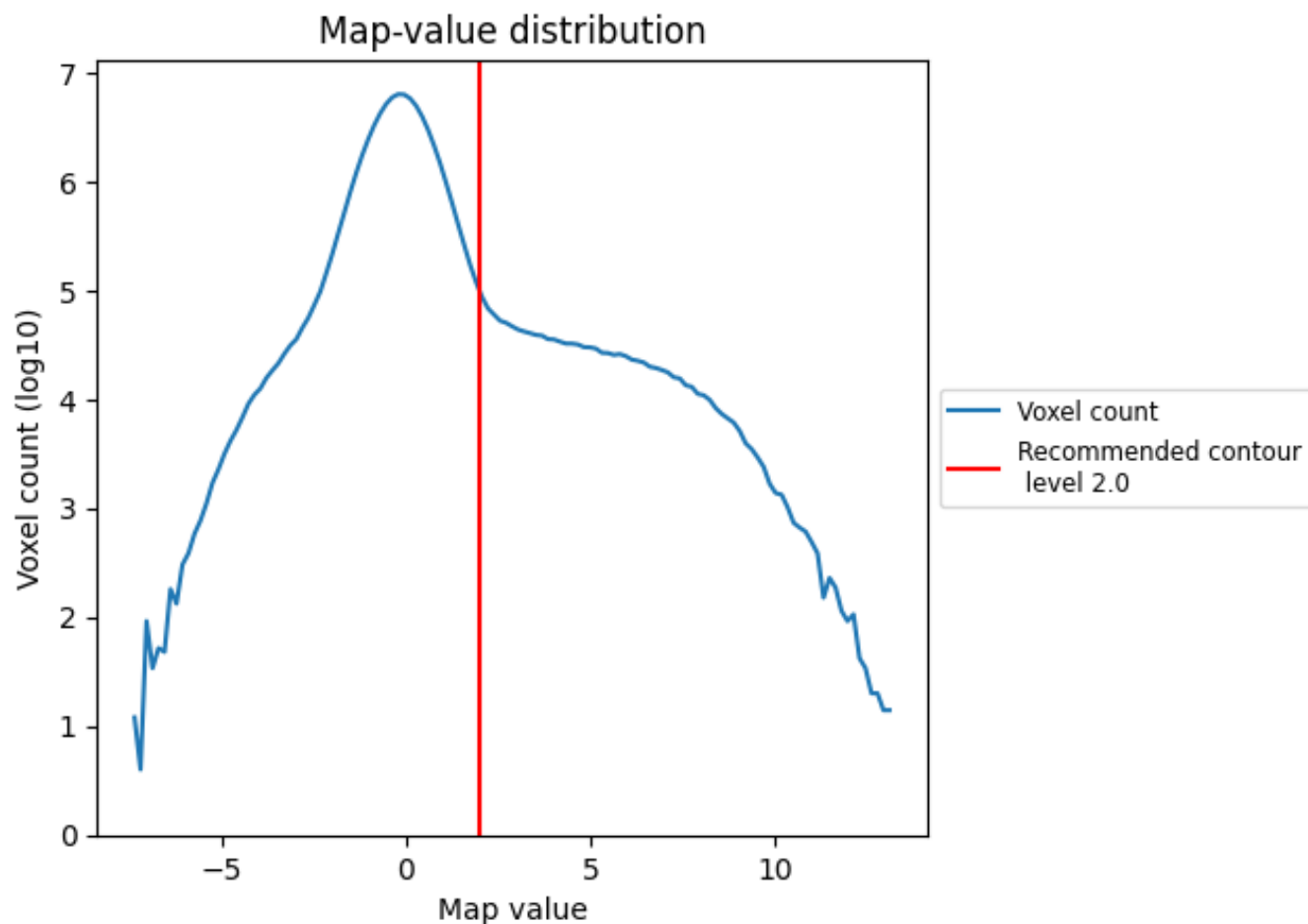
6.5 Mask visualisation

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

7 Map analysis [i](#)

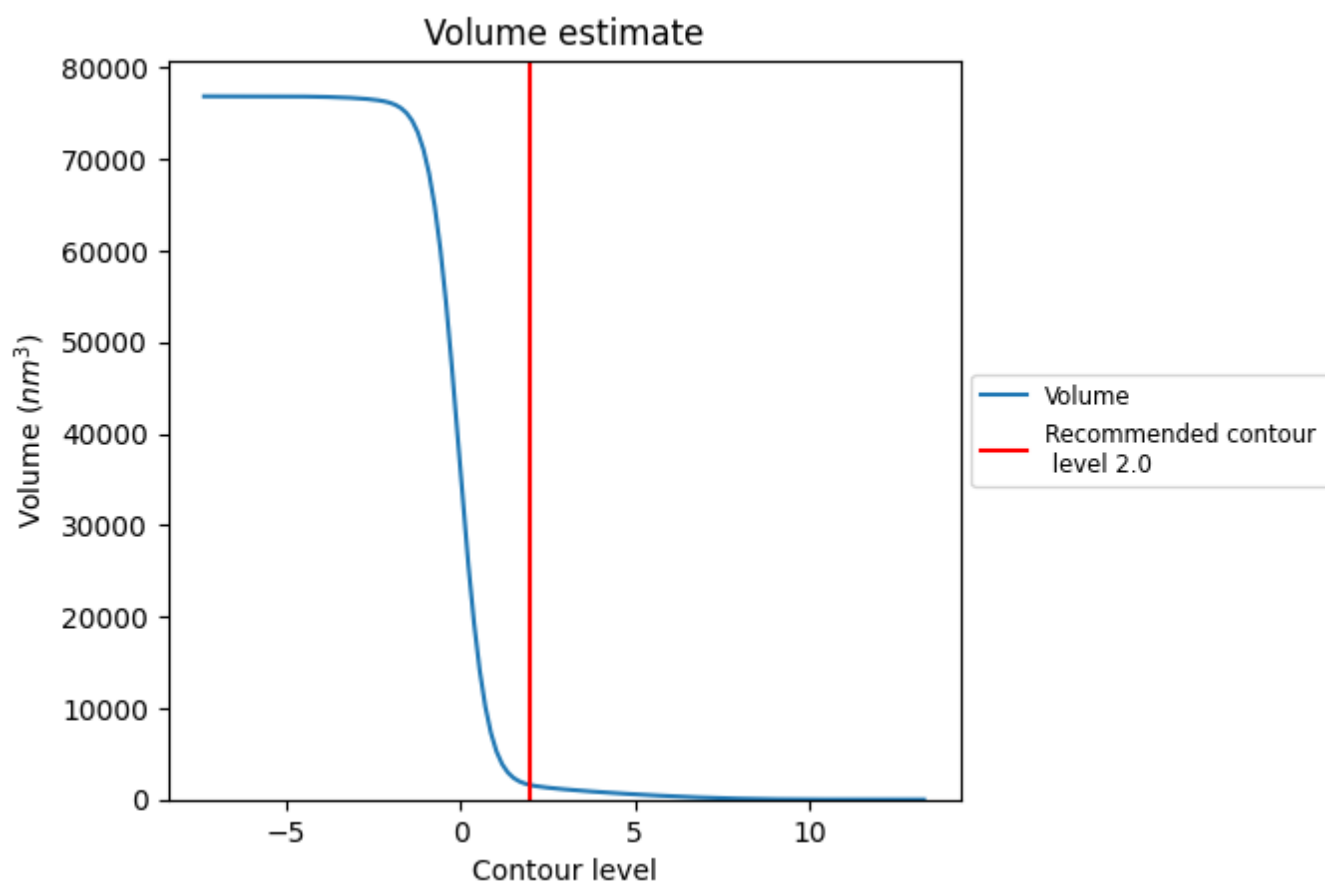
This section contains the results of statistical analysis of the map.

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.

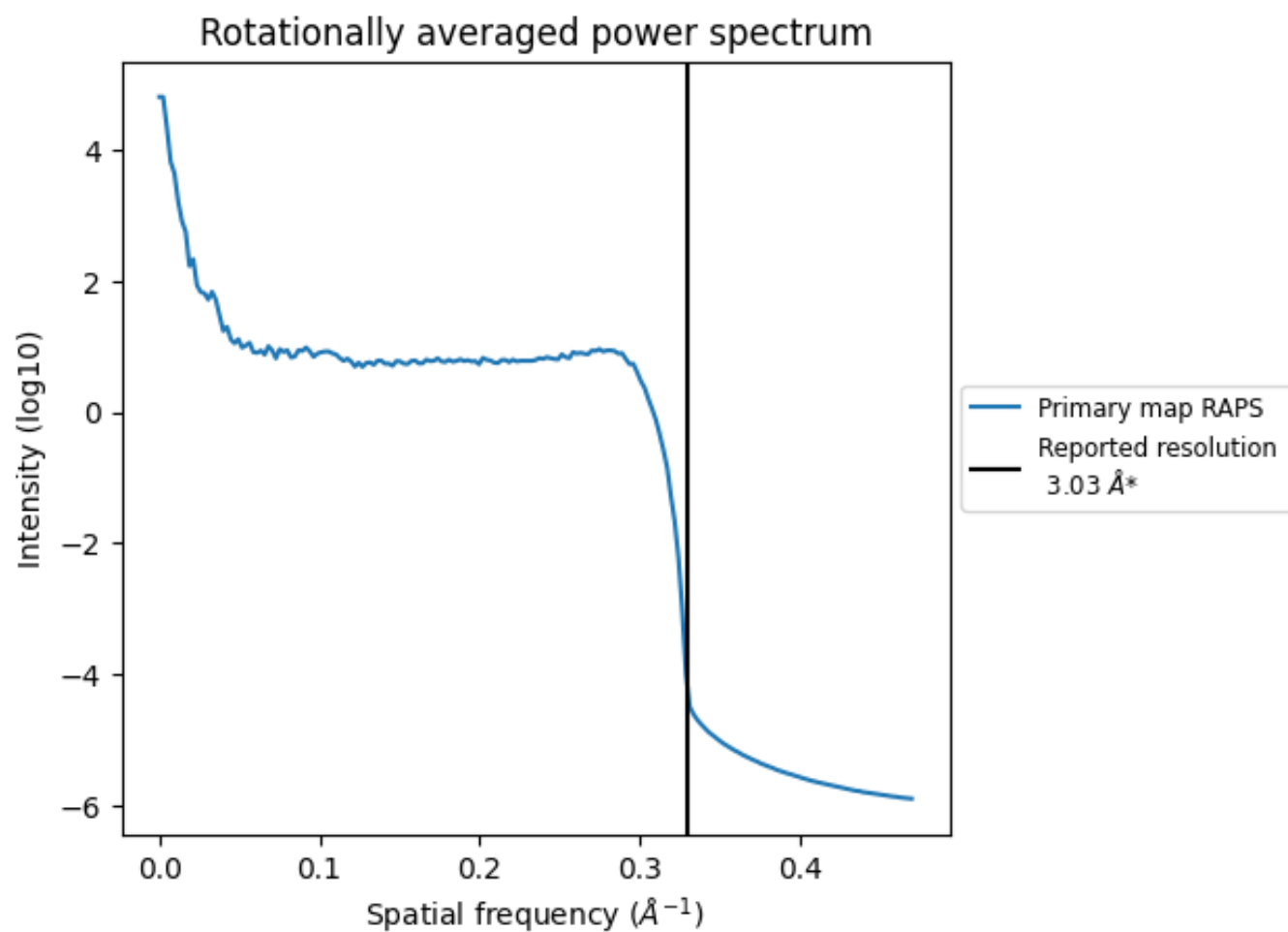
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 1591 nm³; this corresponds to an approximate mass of 1437 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 0.330 Å⁻¹

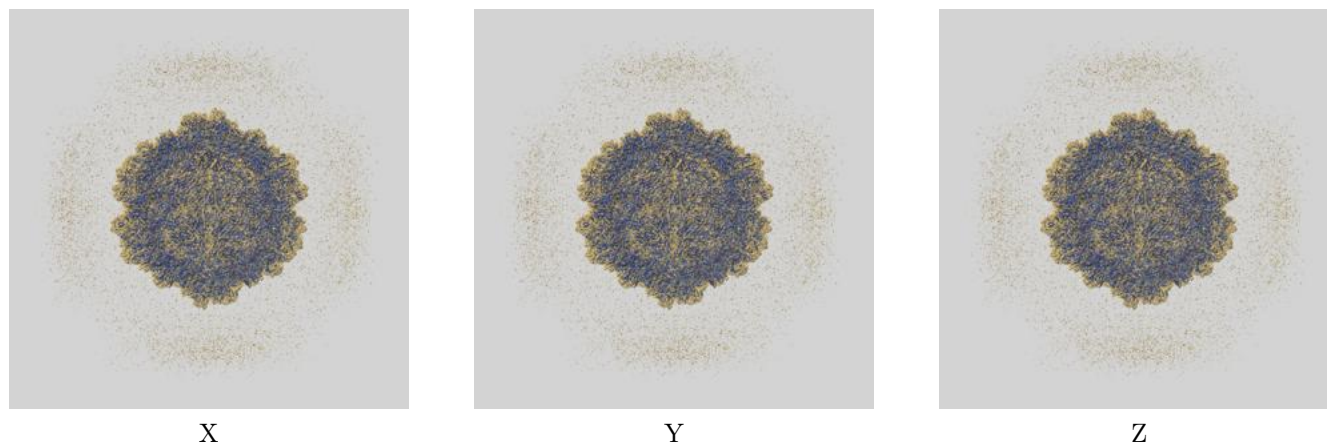
8 Fourier-Shell correlation ⓘ

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

9 Map-model fit [i](#)

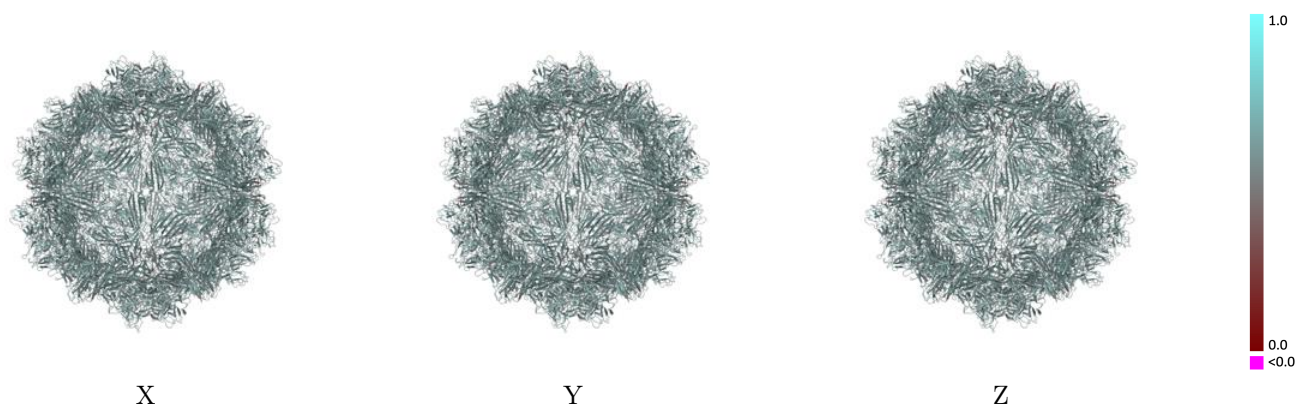
This section contains information regarding the fit between EMDB map EMD-21657 and PDB model 6WFU. Per-residue inclusion information can be found in section [3](#) on page [10](#).

9.1 Map-model overlay [i](#)



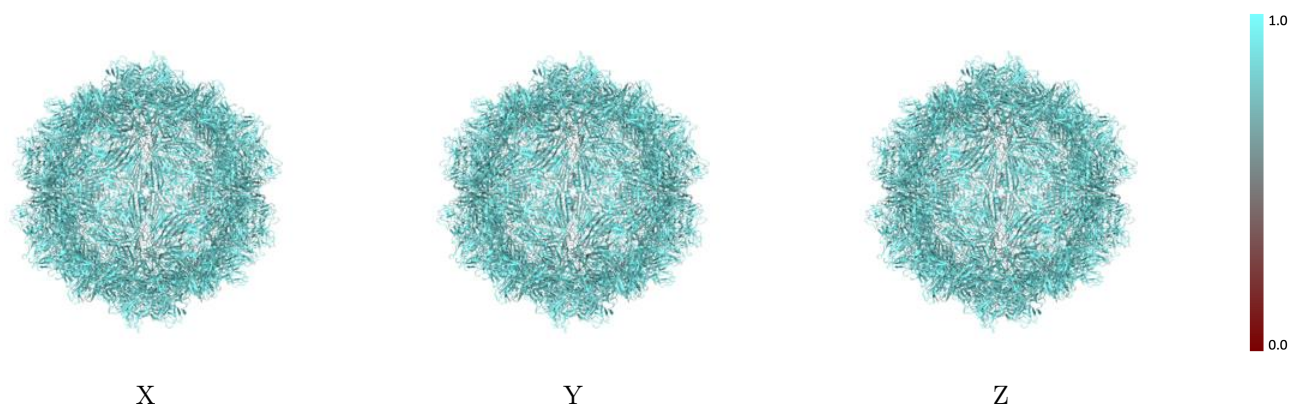
The images above show the 3D surface view of the map at the recommended contour level 2.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

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



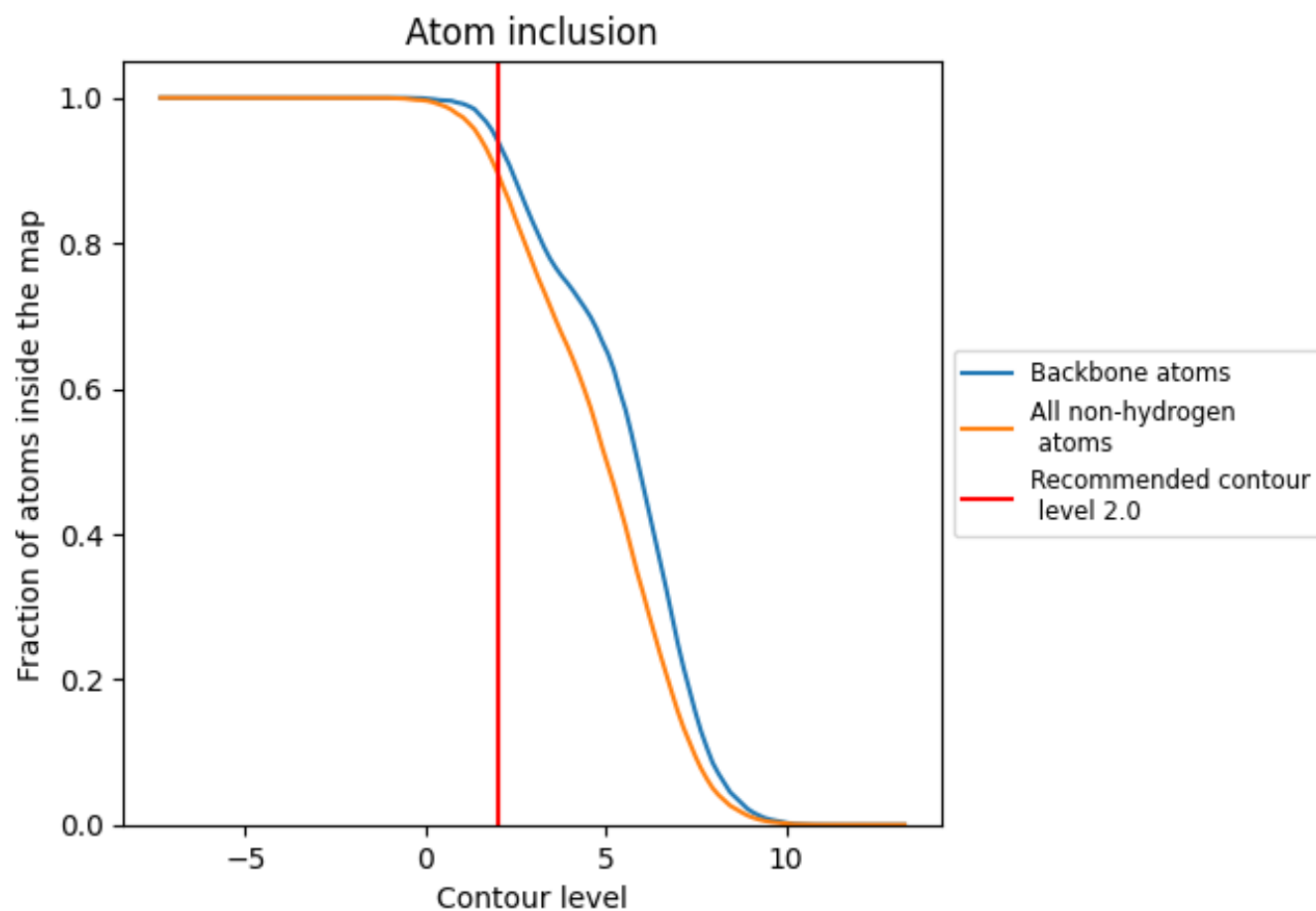
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions 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 (2.0).







































































9.4 Atom inclusion [i](#)



At the recommended contour level, 94% of all backbone atoms, 90% 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 (2.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.8966	 0.5740
1	 0.8998	 0.5740
2	 0.8983	 0.5740
3	 0.8961	 0.5740
4	 0.8936	 0.5750
5	 0.8961	 0.5740
6	 0.8961	 0.5730
7	 0.8963	 0.5740
8	 0.8976	 0.5750
A	 0.8966	 0.5740
B	 0.8998	 0.5740
C	 0.8946	 0.5740
D	 0.8968	 0.5730
E	 0.8983	 0.5730
F	 0.8966	 0.5740
G	 0.8983	 0.5730
H	 0.8968	 0.5740
I	 0.8951	 0.5740
J	 0.8998	 0.5740
K	 0.8941	 0.5740
L	 0.8991	 0.5750
M	 0.8978	 0.5730
N	 0.8968	 0.5740
O	 0.8976	 0.5740
P	 0.8968	 0.5730
Q	 0.8951	 0.5730
R	 0.8998	 0.5760
S	 0.8998	 0.5750
T	 0.8938	 0.5740
U	 0.8991	 0.5750
V	 0.8946	 0.5740
W	 0.8968	 0.5740
X	 0.8978	 0.5730
Y	 0.8968	 0.5740
Z	 0.8976	 0.5750



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Chain	Atom inclusion	Q-score
a	 0.8963	 0.5740
b	 0.8963	 0.5750
c	 0.8961	 0.5750
d	 0.8963	 0.5740
e	 0.8963	 0.5750
f	 0.8961	 0.5740
g	 0.8933	 0.5740
h	 0.8976	 0.5740
i	 0.8963	 0.5730
j	 0.8956	 0.5740
k	 0.8961	 0.5730
l	 0.8976	 0.5740
m	 0.8936	 0.5740
n	 0.8961	 0.5750
o	 0.8976	 0.5730
p	 0.8933	 0.5740
q	 0.8996	 0.5740
r	 0.8983	 0.5740
s	 0.8986	 0.5750
t	 0.8966	 0.5730
u	 0.8933	 0.5730
v	 0.8951	 0.5740
w	 0.8966	 0.5730
x	 0.8931	 0.5730
y	 0.8951	 0.5740
z	 0.8966	 0.5740