

Full wwPDB EM Validation Report (i)

Feb 6, 2024 – 01:18 AM EST

PDB ID : 7U96

EMDB ID : EMD-26392

Title : SAAV pH 5.5 capsid structure Authors : Mietzsch, M.; McKenna, R.

Deposited on : 2022-03-10

Resolution : 2.14 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.dev70

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)

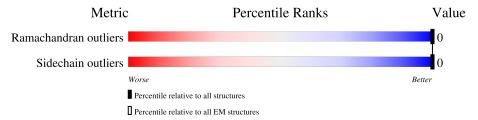
Validation Pipeline (wwPDB-VP) : 2.36

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 2.14 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	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 <=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	100%
1	2	513	100%
1	3	513	100%
1	4	513	100%
1	5	513	100%
1	6	513	100%
1	7	513	100%
1	8	513	100%
1	A	513	100%



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Mol	Chain	Length	Quality of chain
1	В	513	100%
1	С	513	100%
1	D	513	100%
1	Е	513	100%
1	F	513	100%
1	G	513	100%
1	Н	513	100%
1	I	513	100%
1	J	513	100%
1	K	513	100%
1	L	513	100%
1	M	513	100%
1	N	513	100%
1	0	513	100%
1	Р	513	100%
1	Q	513	100%
1	R	513	•
	S		100%
1		513	100%
1	Т	513	100%
1	U	513	100%
1	V	513	100%
1	W	513	100%
1	X	513	100%
1	Y	513	100%
1	Z	513	100%



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Mol	Chain	Length	Quality of chain
			•
1	a	513	100%
1	b	513	100%
1	c	513	100%
1	d	513	100%
1		513	•
	е		100%
1	f	513	100%
1	g	513	100%
1	h	513	100%
1	i	513	100%
1	j	513	100%
1	k	513	100%
			•
1	1	513	100%
1	m	513	100%
1	n	513	100%
1	О	513	100%
1	p	513	100%
			•
1	q	513	100%
1	r	513	100%
1	S	513	100%
1	t	513	100%
1	u	513	100%
1	V	513	100%
			•
1	W	513	100%
1	X	513	100%
1	У	513	100%



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Mol	Chain	Length	Quality of chain
1	Z	513	100%



2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 242520 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
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	۸	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	A	919	4042	2561	692	774	15	U	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	F19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Б	513	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	C	F19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		513	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	E	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	E.	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	E	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Г	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	C	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	G	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	TT	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Π	919	4042	2561	692	774	15	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Т	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	т	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	J	313	4042	2561	692	774	15	U	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	I/	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	N	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Т	£19	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	L	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	М	£19	Total	С	N	О	S	0	0
1 N 513 4042 2561 692 774 15 0 0 1 O 513 Total C N O S 0 0 1 P 513 Total C N O S 0 0 1 O 513 Total C N O S 0 0 1 O 513 Total C N O S 0 0	1	IVI	919	4042	2561	692	774	15	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	N	£19	Total	С	N	О	S	0	0
1 O 513 4042 2561 692 774 15 O O 1 P 513 Total C N O S O O 1 O 513 Total C N O S O O	1	IN .	513	4042	2561	692	774	15	U	U
1 P 513 Total C N O S 0 0 1 O 513 Total C N O S 0 0	1	0	F10	Total	С	N	О	S	0	0
1 P 513 4042 2561 692 774 15 0 0 1 O 513 Total C N O S 0 0	1		313	4042	2561	692	774	15	U	U
4042 2561 692 774 15 1 O 513 Total C N O S 0 0	1	D	D #10	Total	С	N	О	S	0	0
	1	ľ	313	4042	2561	692	774	15	U	U
$\begin{bmatrix} 1 & & & & & & & & & & & & & & & & & & $	1	0	£19	Total	С	N	О	S	0	0
	1	Q	513	4042	2561	692	774	15	U	U



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Mol	Chain	$oxed{ egin{array}{c} \mathbf{Residues} \end{array} }$	<i>yc</i>	At	oms			AltConf	Trace
11101		Tessiaass	Total	$\frac{110}{C}$	N	0	S		Trace
1	R	513	4042	2561	692	774	15	0	0
	~		Total	C	N	0	S		
1	S	513	4042	2561	692	774	15	0	0
-	TD.	710	Total	С	N	О	S	0	0
1	Т	513	4042	2561	692	774	15	0	0
1	U	F19	Total	С	N	О	S	0	0
1	U	513	4042	2561	692	774	15	0	0
1	V	513	Total	С	N	О	S	0	0
1	V	313	4042	2561	692	774	15	U	U
1	W	513	Total	\mathbf{C}	N	Ο	S	0	0
	**	010	4042	2561	692	774	15	Ů,	0
1	X	513	Total	С	N	O	S	0	0
		010	4042	2561	692	774	15	Ů	<u> </u>
1	Y	513	Total	C	N	0	S	0	0
			4042	2561	692	774	15	-	
1	Z	513	Total	C	N	0	S	0	0
			4042	2561	692	774	15		
1	a	513	Total	\mathbf{C}	N	O	S	0	0
			4042	2561	692 N	774	15 C		
1	b	513	Total 4042	C 2561	N 602	O 774	S 15	0	0
			Total	2301 C	692 N	$\frac{774}{O}$	$\frac{15}{S}$		
1	c	513	4042	2561	692	774	5 15	0	0
			Total	C	$\frac{092}{N}$	0	$\frac{15}{S}$		
1	d	513	4042	2561	692	774	15	0	0
			Total	C	N	0	$\frac{10}{S}$		
1	е	513	4042	2561	692	774	15	0	0
	0	7.10	Total	C	N	O	S		
1	f	513	4042	2561	692	774	15	0	0
-1		F10	Total	С	N	О	S	0	0
1	g	513	4042	2561	692	774	15	0	0
1	l _a	519	Total	С	N	О	S	0	0
1	h	513	4042	2561	692	774	15	U	0
1	i	512	Total	С	N	О	S	0	0
	i 513	919	4042	2561	692	774	15	U	U
1	1 j	513	Total	С	N	О	S	0	0
1		919	4042	2561	692	774	15	U	U
1	1 k	513	Total	С	N	Ο	S	0	0
	IX.	010	4042	2561	692	774	15	0	U
1	1 l	513	Total	С	N	O	S	0	0
		310	4042	2561	692	774	15		



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Mol	Chain	$oxed{ egin{array}{c} \mathbf{Residues} \end{array} }$	<i>yc</i>	At	oms			AltConf	Trace
1/101	Chain	residues	Total	$\frac{110}{C}$	N	0	S	711000111	Trace
1	m	513	4042	2561	692	774	15	0	0
1		F19	Total	С	N	О	S	0	0
1	n	513	4042	2561	692	774	15	0	0
1	О	513	Total	С	N	О	S	0	0
1	U	313	4042	2561	692	774	15	U	U
1	p	513	Total	С	N	О	S	0	0
1	Р	313	4042	2561	692	774	15	Ü	
1	q	513	Total	С	N	O	S	0	0
_	1	0 2 0	4042	2561	692	774	15		
1	\mathbf{r}	513	Total	C	N	0	S	0	0
			4042	2561	692	774	15	U	
1	S	513	Total	\mathbf{C}	N	O	S	0	0
			4042	2561	692	774	15		
1	t	513	Total	C 2561	N 692	O	S	0	0
			$\frac{4042}{\text{Total}}$	$\frac{2561}{\mathrm{C}}$	N	$\frac{774}{O}$	$\frac{15}{S}$		
1	u	513	4042	2561	692	774	5 15	0	0
			Total	C C	N	0	S S		0
1	V	513	4042	2561	692	774	5 15	0	
			Total	C C	N	0	$\frac{13}{S}$		0
1	W	513	4042	2561	692	774	15	0	
			Total	C	N	0	S		
1	X	513	4042	2561	692	774	15	0	0
_			Total	C	N	O	S		_
1	У	513	4042	2561	692	774	15	0	0
1		710	Total	С	N	О	S	0	0
1	Z	513	4042	2561	692	774	15	0	0
1	1	F19	Total	С	N	О	S	0	0
1	1	513	4042	2561	692	774	15	0	0
1	2	513	Total	С	N	О	S	0	0
1	Δ	919	4042	2561	692	774	15	U	U
1	3	513	Total	С	N	О	S	0	0
1	3	010	4042	2561	692	774	15	U	U
1	4	513	Total	С	N	О	\mathbf{S}	0	0
1	4 0.	310	4042	2561	692	774	15	0	0
1	1 5	513	Total	С	N	O	S	0	0
		0 010	4042	2561	692	774	15		
1	1 6	513	Total	C	N	0	S	0	0
	-		4042	2561	692	774	15	-	-
1	1 7	513	Total	C	N	O	S	0	0
			4042	2561	692	774	$\frac{15}{C}$,



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Mol	Chain	Residues		Atoms			AltConf	Trace	
1	8	513	Total 4042	C 2561	N 692	O 774	S 15	0	0



3 Residue-property plots (i)

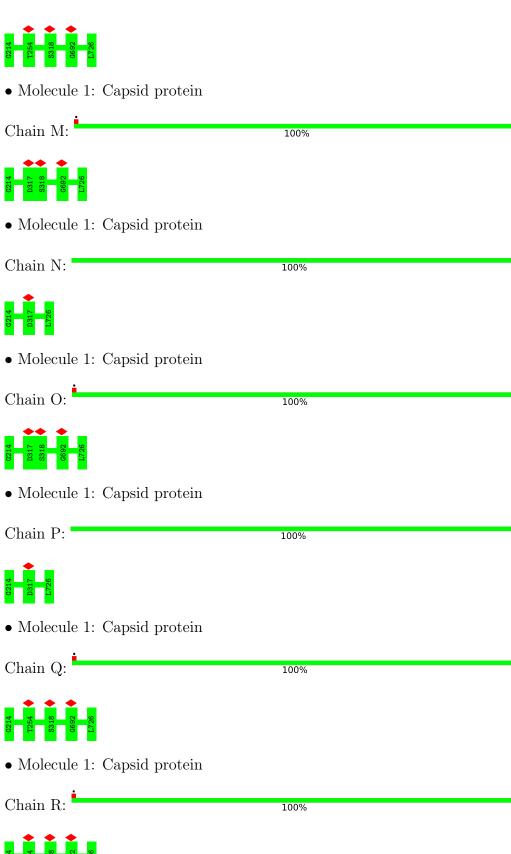
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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.

• Molecule 1: Capsid protein Chain A: • Molecule 1: Capsid protein Chain B: 100% • Molecule 1: Capsid protein Chain C: 100% • Molecule 1: Capsid protein Chain D: 100% • Molecule 1: Capsid protein Chain E: 100%



• Molecule 1: Capsid protein		
Chain F:	100%	
2214 S318 C692 C1726		
• Molecule 1: Capsid protein		
Chain G:	100%	
2314 28317 2692 1726		
• Molecule 1: Capsid protein		
Chain H:	100%	
0214 D317 L726		
• Molecule 1: Capsid protein		
Chain I:	100%	•
G214 17254 \$318 C692 ↓1726		
• Molecule 1: Capsid protein		
Chain J:	100%	
0214 1724 8318 0682 1726		
• Molecule 1: Capsid protein		
Chain K:	100%	
C214 1754 8318 6692 1726		
• Molecule 1: Capsid protein		
Chain L:	100%	







• Molecule 1: Capsid protein

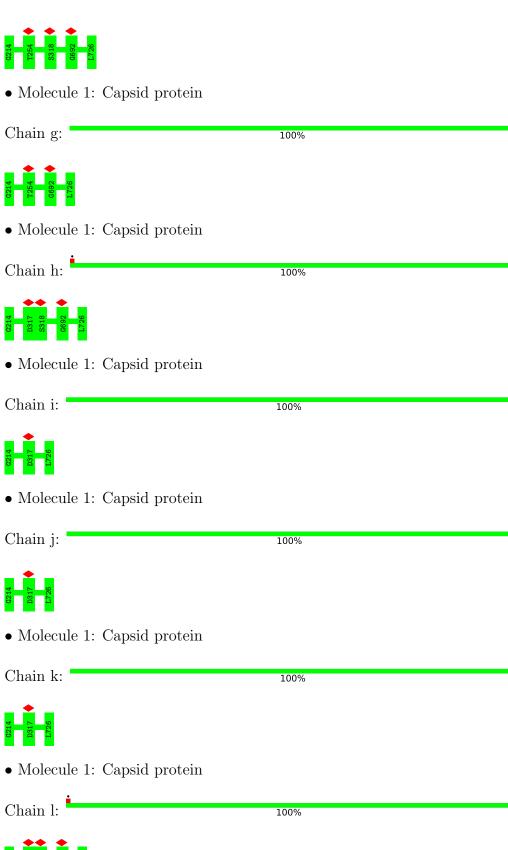


Chain S:	100%
S318 C692 C726	
• Molecule 1: Capsid protein	
Chain T:	100%
G214 T254 G692 G692 L726	
• Molecule 1: Capsid protein	
Chain U:	100%
C214 T254 S318 C692 L726	
• Molecule 1: Capsid protein	
Chain V:	100%
G214 T254 S318 G692 C726	
• Molecule 1: Capsid protein	
Chain W:	100%
6214 D317 L726	
• Molecule 1: Capsid protein	
Chain X:	100%
C214 D317 C692 C692 T726	
• Molecule 1: Capsid protein	
Chain Y:	100%
10214 10217 → 10217 → 10218	



Molecule 1: Capsid protein	
Chain Z:	100%
0214 S318 0692 L726	
• Molecule 1: Capsid protein	
Chain a:	100%
C214 T254 S318 C692 T726	
• Molecule 1: Capsid protein	
Chain b:	100%
0214 1254 8318 0662 1726	
• Molecule 1: Capsid protein	
Chain c:	100%
G214 T254 S318 G692 C726	
• Molecule 1: Capsid protein	
Chain d:	100%
6214 1724 8318 6692 1776	
• Molecule 1: Capsid protein	
Chain e:	100%
G214 T254 S318 G692 L726	
• Molecule 1: Capsid protein	
Chain f:	100%





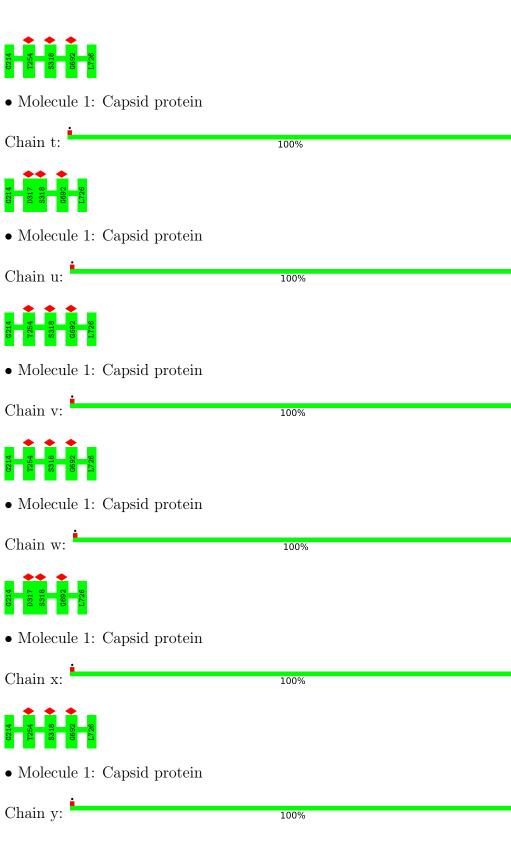


• Molecule 1: Capsid protein



• 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 n: Molecule 1: Capsid protein Chain o: Molecule 1: Capsid protein Chain p: 100%
Chain n: Molecule 1: Capsid protein Chain o: Molecule 1: Capsid protein Chain p: 100%
• Molecule 1: Capsid protein Chain o: 100% • Molecule 1: Capsid protein Chain p: 100%
Chain o: Molecule 1: Capsid protein Chain p: 100%
Chain o: Molecule 1: Capsid protein Chain p: 100%
• Molecule 1: Capsid protein Chain p: 100%
Chain p:
Chain p:
S318
Molecule 1: Cancid protein
• Molecule 1: Cancid protein
• Molecule 1. Capsid protein
Chain q:
2214 17254
Molecule 1: Capsid protein
Chain r: 100%
2 8 2 8 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4
• Molecule 1: Capsid protein
Chain s: 100%







• Molecule 1: Capsid protein



CI ·	
Chain z:	100%
83.18 83.18 17.26	
• Molecule 1: Capsid protein	
Chain 1:	100%
0214 S318 0892 L726	
• Molecule 1: Capsid protein	
Chain 2:	100%
23.18	
• Molecule 1: Capsid protein	
Chain 3:	100%
8318 8318 600 1726	
• Molecule 1: Capsid protein	
Chain 4:	100%
0214 S318 0692 C726	
• Molecule 1: Capsid protein	
Chain 5:	100%
6214 D317 C726	
• Molecule 1: Capsid protein	
Chain 6:	100%
0214 D317 C1726	



•	Molecul	le 1:	Capsid	protein

Chain 7: 100%



 \bullet Molecule 1: Capsid protein

Chain 8: 100%





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	402005	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 $(e^-/\text{Å}^2)$	34	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2800	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	17.562	Depositor
Minimum map value	-9.400	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2.0	Depositor
Map size (Å)	434.4, 434.4, 434.4	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.086, 1.086, 1.086	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).

1 Л г 1	Chair	Bond	lengths	Bond angles		
Mol	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	1	0.42	0/4167	0.53	0/5686	
1	2	0.42	0/4167	0.53	0/5686	
1	3	0.42	0/4167	0.53	0/5686	
1	4	0.42	0/4167	0.53	0/5686	
1	5	0.42	0/4167	0.53	0/5686	
1	6	0.42	0/4167	0.53	0/5686	
1	7	0.42	0/4167	0.53	0/5686	
1	8	0.42	0/4167	0.53	0/5686	
1	A	0.42	0/4167	0.53	0/5686	
1	В	0.42	0/4167	0.53	0/5686	
1	С	0.42	0/4167	0.53	0/5686	
1	D	0.42	0/4167	0.53	0/5686	
1	Е	0.42	0/4167	0.53	0/5686	
1	F	0.42	0/4167	0.53	0/5686	
1	G	0.42	0/4167	0.53	0/5686	
1	Н	0.42	0/4167	0.53	0/5686	
1	I	0.42	0/4167	0.53	0/5686	
1	J	0.42	0/4167	0.53	0/5686	
1	K	0.42	0/4167	0.53	0/5686	
1	L	0.42	0/4167	0.53	0/5686	
1	M	0.42	0/4167	0.53	0/5686	
1	N	0.42	0/4167	0.53	0/5686	
1	O	0.42	0/4167	0.53	0/5686	
1	Р	0.42	0/4167	0.53	0/5686	
1	Q	0.42	0/4167	0.53	0/5686	
1	R	0.42	0/4167	0.53	0/5686	
1	S	0.42	0/4167	0.53	0/5686	
1	Т	0.42	0/4167	0.53	0/5686	
1	U	0.42	0/4167	0.53	0/5686	
1	V	0.42	0/4167	0.53	0/5686	
1	W	0.42	0/4167	0.53	0/5686	
1	X	0.42	0/4167	0.53	0/5686	
1	Y	0.42	0/4167	0.53	0/5686	
1	Z	0.42	0/4167	0.53	0/5686	



Mal Chain		Bond	lengths	Bond angles		
Mol	Chain	RMSZ	# Z > 5	RMSZ	# Z > 5	
1	a	0.42	0/4167	0.53	0/5686	
1	b	0.42	0/4167	0.53	0/5686	
1	С	0.42	0/4167	0.53	0/5686	
1	d	0.42	0/4167	0.53	0/5686	
1	е	0.42	0/4167	0.53	0/5686	
1	f	0.42	0/4167	0.53	0/5686	
1	g	0.42	0/4167	0.53	0/5686	
1	h	0.42	0/4167	0.53	0/5686	
1	i	0.42	0/4167	0.53	0/5686	
1	j	0.42	0/4167	0.53	0/5686	
1	k	0.42	0/4167	0.53	0/5686	
1	1	0.42	0/4167	0.53	0/5686	
1	m	0.42	0/4167	0.53	0/5686	
1	n	0.42	0/4167	0.53	0/5686	
1	О	0.42	0/4167	0.53	0/5686	
1	р	0.42	0/4167	0.53	0/5686	
1	q	0.42	0/4167	0.53	0/5686	
1	r	0.42	0/4167	0.53	0/5686	
1	s	0.42	0/4167	0.53	0/5686	
1	t	0.42	0/4167	0.53	0/5686	
1	u	0.42	0/4167	0.53	0/5686	
1	V	0.42	0/4167	0.53	0/5686	
1	W	0.42	0/4167	0.53	0/5686	
1	X	0.42	0/4167	0.53	0/5686	
1	У	0.42	0/4167	0.53	0/5686	
1	Z	0.42	0/4167	0.53	0/5686	
All	All	0.42	0/250020	0.53	0/341160	

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	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	2	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	3	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	4	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	5	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	6	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	7	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	8	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	A	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	В	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	С	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	D	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	Е	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	F	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	G	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	Н	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	I	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	J	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	K	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	L	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	M	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	N	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	О	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	Р	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	Q	511/513 (100%)	503 (98%)	8 (2%)	0	100	100



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	entiles
1	R	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	S	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	Т	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	U	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	V	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	W	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	X	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	Y	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	Z	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	a	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	b	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	c	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	d	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	e	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	f	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	g	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	h	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	i	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	j	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	k	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	1	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	m	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	n	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	О	511/513~(100%)	503 (98%)	8 (2%)	0	100	100
1	р	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	q	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	r	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	S	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	t	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	u	511/513 (100%)	503 (98%)	8 (2%)	0	100	100
1	V	511/513 (100%)	503 (98%)	8 (2%)	0	100	100



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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	W	511/513 (100%)	503 (98%)	8 (2%)	0	100 100
1	X	511/513 (100%)	503 (98%)	8 (2%)	0	100 100
1	У	511/513 (100%)	503 (98%)	8 (2%)	0	100 100
1	Z	511/513 (100%)	503 (98%)	8 (2%)	0	100 100
All	All	30660/30780 (100%)	30180 (98%)	480 (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	439/439 (100%)	439 (100%)	0	100 100
1	2	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	3	439/439 (100%)	439 (100%)	0	100 100
1	4	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	5	439/439~(100%)	439 (100%)	0	100 100
1	6	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	7	439/439~(100%)	439 (100%)	0	100 100
1	8	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	A	439/439 (100%)	439 (100%)	0	100 100
1	В	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	\mathbf{C}	439/439~(100%)	439 (100%)	0	100 100
1	D	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	E	439/439 (100%)	439 (100%)	0	100 100
1	F	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	G	439/439 (100%)	439 (100%)	0	100 100
1	Н	439/439 (100%)	439 (100%)	0	100 100
1	I	439/439 (100%)	439 (100%)	0	100 100



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Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	J	439/439 (100%)	439 (100%)	0	100	100
1	K	439/439 (100%)	439 (100%)	0	100	100
1	L	$439/439\ (100\%)$	439 (100%)	0	100	100
1	M	439/439~(100%)	439 (100%)	0	100	100
1	N	439/439 (100%)	439 (100%)	0	100	100
1	О	439/439~(100%)	439 (100%)	0	100	100
1	Р	439/439 (100%)	439 (100%)	0	100	100
1	Q	439/439~(100%)	439 (100%)	0	100	100
1	R	$439/439\ (100\%)$	439 (100%)	0	100	100
1	S	439/439~(100%)	439 (100%)	0	100	100
1	Т	$439/439\ (100\%)$	439 (100%)	0	100	100
1	U	$439/439\ (100\%)$	439 (100%)	0	100	100
1	V	$439/439\ (100\%)$	439 (100%)	0	100	100
1	W	439/439~(100%)	439 (100%)	0	100	100
1	X	$439/439\ (100\%)$	439 (100%)	0	100	100
1	Y	$439/439\ (100\%)$	439 (100%)	0	100	100
1	Z	$439/439\ (100\%)$	439 (100%)	0	100	100
1	a	$439/439\ (100\%)$	439 (100%)	0	100	100
1	b	$439/439\ (100\%)$	439 (100%)	0	100	100
1	c	439/439~(100%)	439 (100%)	0	100	100
1	d	$439/439 \; (100\%)$	439 (100%)	0	100	100
1	е	$439/439\ (100\%)$	439 (100%)	0	100	100
1	f	$439/439\ (100\%)$	439 (100%)	0	100	100
1	g	$439/439\ (100\%)$	439 (100%)	0	100	100
1	h	439/439 (100%)	439 (100%)	0	100	100
1	i	439/439 (100%)	439 (100%)	0	100	100
1	j	439/439 (100%)	439 (100%)	0	100	100
1	k	439/439 (100%)	439 (100%)	0	100	100
1	1	439/439 (100%)	439 (100%)	0	100	100
1	m	439/439 (100%)	439 (100%)	0	100	100
1	n	439/439 (100%)	439 (100%)	0	100	100



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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	О	439/439~(100%)	439 (100%)	0	100 100
1	p	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	q	439/439 (100%)	439 (100%)	0	100 100
1	r	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	S	439/439 (100%)	439 (100%)	0	100 100
1	t	439/439 (100%)	439 (100%)	0	100 100
1	u	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	V	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	W	439/439 (100%)	439 (100%)	0	100 100
1	X	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	У	$439/439 \; (100\%)$	439 (100%)	0	100 100
1	Z	$439/439 \; (100\%)$	439 (100%)	0	100 100
All	All	26340/26340 (100%)	26340 (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 (1155) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	226	HIS
1	A	249	ASN
1	A	278	HIS
1	A	291	ASN
1	A	292	ASN
1	A	392	GLN
1	A	398	ASN
1	A	444	ASN
1	A	481	ASN
1	A	497	GLN
1	A	520	GLN
1	A	524	ASN
1	A	545	ASN
1	A	556	ASN
1	A	560	ASN
1	A	564	ASN
1	A	584	GLN
1	A	616	HIS
1	A	637	ASN

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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	A	725	HIS	
1	В	226	HIS	
1	В	249	ASN	
1	В	278	HIS	
1	В	291	ASN	
1	В	292	ASN	
1	В	392	GLN	
1	В	398	ASN	
1	В	444	ASN	
1	В	481	ASN	
1	В	497	GLN	
1	В	520	GLN	
1	В	524	ASN	
1	В	545	ASN	
1	В	556	ASN	
1	В	560	ASN	
1	В	564	ASN	
1	В	584	GLN	
1	В	616	HIS	
1	В	637	ASN	
1	В	725	HIS	
1	С	226	HIS	
1	C C C C C	249	ASN	
1	С	278	HIS	
1	С	291	ASN	
1	С	292	ASN	
1	С	392	GLN	
1		398	ASN	
1	С	444	ASN	
1	С	481	ASN	
1	С	497	GLN	
1	С	520	GLN	
1	С	524	ASN	
1	С	545	ASN	
1	С	556	ASN	
1	C C C C C C C D	560	ASN	
1	С	564	ASN	
1	С	584	GLN	
1	С	616	HIS	
1	С	637	ASN	
1	С	725	HIS	
1	D	226	HIS	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	D	249	ASN	
1	D	278	HIS	
1	D	291	ASN	
1	D	292	ASN	
1	D	392	GLN	
1	D	398	ASN	
1	D	444	ASN	
1	D	481	ASN	
1	D	497	GLN	
1	D	520	GLN	
1	D	524	ASN	
1	D	545	ASN	
1	D	556	ASN	
1	D	560	ASN	
1	D	564	ASN	
1	D	616	HIS	
1	D	637	ASN	
1	D	725	HIS	
1	Е	226	HIS	
1	Е	249	ASN	
1	Е	278	HIS	
1	Е	291	ASN	
1	Ε	292	ASN	
1	Е	392	GLN	
1	Е	398	ASN	
1	Е	444	ASN	
1	Е	481	ASN	
1	Е	497	GLN	
1	Е	520	GLN	
1	Е	524	ASN	
1	Е	545	ASN	
1	Е	556	ASN	
1	Е	560	ASN	
1	Е	564	ASN	
1	Е	616	HIS	
1	Е	637	ASN	
1	Е	725	HIS	
1	F	226	HIS	
1	F	249	ASN	
1	F	278	HIS	
1	F	291	ASN	
1	F	292	ASN	

F | 292 | ASN | Continued on next page...



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Mol	Chain	Res	Type
1	F	392	GLN
1	F	398	ASN
1	F	444	ASN
1	F	481	ASN
1	F	497	GLN
1	F	520	GLN
1	F	524	ASN
1	F	545	ASN
1	F	556	ASN
1	F	560	ASN
1	F	564	ASN
1	F	616	HIS
1	F	637	ASN
1	F	725	HIS
1	G	226	HIS
1	G	249	ASN
1	G	278	HIS
1	G	291	ASN
1	G	292	ASN
1	G	392	GLN
1	G	398	ASN
1	G	444	ASN
1	G	481	ASN
1	G	497	GLN
1	G	520	GLN
1	G	524	ASN
1	G	545	ASN
1	G	556	ASN
1	G	560	ASN
1	G	564	ASN
1	G	584	GLN
1	G	616	HIS
1	G	637	ASN
1	G	725	HIS
1	Н	226	HIS
1	Н	249	ASN
1	Н	278	HIS
1	Н	291	ASN
1	Н	292	ASN
1	Н	392	GLN
1	Н	398	ASN
1	Н	444	ASN



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			ous page
Mol	Chain	Res	Type
1	Н	481	ASN
1	Н	497	GLN
1	Н	520	GLN
1	Н	524	ASN
1	Н	545	ASN
1	Н	556	ASN
1	Н	560	ASN
1	Н	564	ASN
1	Н	584	GLN
1	Н	616	HIS
1	Н	637	ASN
1	Н	725	HIS
1	I	226	HIS
1	I	249	ASN
1	I	278	HIS
1	I	291	ASN
1	I	292	ASN
1	I	392	GLN
1	I	398	ASN
1	I	444	ASN
1	I	481	ASN
1	I	497	GLN
1	I	520	GLN
1	I	524	ASN
1	I	545	ASN
1	I	556	ASN
1	I	560	ASN
1	I	564	ASN
1	I	584	GLN
1	I	616	HIS
1	I	637	ASN
1	I	725	HIS
1	J	226	HIS
1	J	249	ASN
1	J	278	HIS
1	J	291	ASN
1	J	292	ASN
1	J	392	GLN
1	J	398	ASN
1	J	444	ASN
1	J	481	ASN
1	J	497	GLN



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Mol	Chain	Res	Type	
1	J	520	GLN	
1	J	524	ASN	
1	J	545	ASN	
1	J	556	ASN	
1	J	560	ASN	
1	J	564	ASN	
1	J	584	GLN	
1	J	616	HIS	
1	J	637	ASN	
1	J	725	HIS	
1	K	226	HIS	
1	K	249	ASN	
1	K	278	HIS	
1	K	291	ASN	
1	K	292	ASN	
1	K	392	GLN	
1	K	398	ASN	
1	K	444	ASN	
1	K	481	ASN	
1	K	497	GLN	
1	K	520	GLN	
1	K	524	ASN	
1	K	545	ASN	
1	K	556	ASN	
1	K	560	ASN	
1	K	564	ASN	
1	K	616	HIS	
1	K	637	ASN	
1	K	725	HIS	
1	L	226	HIS	
1	L	249	ASN	
1	L	278	HIS	
1	L	291	ASN	
1	L	292	ASN	
1	L	392	GLN	
1	L	398	ASN	
1	L	444	ASN	
1	L	481	ASN	
1	L	497	GLN	
1	L	520	GLN	
1	L	524	ASN	
1	L	545	ASN	



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Mol	Chain	Res	Type
1	L	556	ASN
1	L	560	ASN
1	L	564	ASN
1	L	616	HIS
1	L	637	ASN
1	L	725	HIS
1	M	226	HIS
1	M	249	ASN
1	M	278	HIS
1	M	291	ASN
1	M	292	ASN
1	M	392	GLN
1	M	398	ASN
1	M	444	ASN
1	M	481	ASN
1	M	497	GLN
1	M	520	GLN
1	M	524	ASN
1	M	545	ASN
1	M	556	ASN
1	M	560	ASN
1	M	564	ASN
1	M	616	HIS
1	M	637	ASN
1	M	725	HIS
1	N	226	HIS
1	N	249	ASN
1	N	278	HIS
1	N	291	ASN
1	N	292	ASN
1	N	392	GLN
1	N	398	ASN
1	N	444	ASN
1	N	481	ASN
1	N	497	GLN
1	N	520	GLN
1	N	524	ASN
1	N	545	ASN
1	N	556	ASN
1	N	560	ASN
1	N	564	ASN
1	N	616	HIS



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Mol	Chain	Res	Type		
1	N	637	ASN		
1	N	725	HIS		
1	O O	226	HIS		
1	О	249	ASN		
1	O	278	HIS		
1	O O O	291	ASN		
1	О	292	ASN		
1	О	392	GLN		
1	О	398	ASN		
1	О	444	ASN		
1	О	481	ASN		
1	О	497	GLN		
1	О	520	GLN		
1	O O O O O O O O P P P P	524	ASN		
1	О	545	ASN		
1	О	556	ASN		
1	О	560	ASN		
1	О	564	ASN		
1	О	616	HIS		
1	О	637	ASN		
1	О	725	HIS		
1	Р	226	HIS		
1	Р	249	ASN		
1	Р	278	HIS		
1	Р	291	ASN		
1	Р	292	ASN		
1	Р	392	GLN		
1	Р	398	ASN		
1	Р	444	ASN		
1	Р	481	ASN		
1	Р	497	GLN		
1	Р	520	GLN		
1	Р	524	ASN		
1	Р	545	ASN		
1	Р	556	ASN		
1	Р	560	ASN		
1	Р	564	ASN		
1	Р	616	HIS		
1	Р	637	ASN		
1	Р	725	HIS		
1	Q	226	HIS		
1	Q	249	ASN		

 $\begin{array}{|c|c|c|c|c|c|}\hline Q & 249 & ASN \\\hline Continued on next page... \\\hline \end{array}$



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	Q	278	HIS	
1	Q	291	ASN	
1	Q	292	ASN	
1	Q	392	GLN	
1	Q	398	ASN	
1	Q	444	ASN	
1	Q	481	ASN	
1	Q	497	GLN	
1	Q	520	GLN	
1	Q	524	ASN	
1	Q	545	ASN	
1	Q	556	ASN	
1	Q	560	ASN	
1	Q Q Q Q Q Q Q Q Q Q Q R	564	ASN	
1	Q	616	HIS	
1	Q	637	ASN	
1	Q	725	HIS	
1	R	226	HIS	
1	R	249	ASN	
1	R	278	HIS	
1	R	291	ASN	
1	R	292	ASN	
1	R	392	GLN	
1	R	398	ASN	
1	R	444	ASN	
1	R	481	ASN	
1	R	497	GLN	
1	R	520	GLN	
1	R	524	ASN	
1	R	545	ASN	
1	R	556	ASN	
1	R	560	ASN	
1	R	564	ASN	
1	R	616	HIS	
1	R	637	ASN	
1	R	725	HIS	
1	S	226	HIS	
1	S	249	ASN	
1	S	278	HIS	
1	S	291	ASN	
1	S	292	ASN	
1	S	392	GLN	



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	Continued from previous page			
Mol	Chain	Res	Type	
1	S	398	ASN	
1	S	444	ASN	
1	S	481	ASN	
1	S	497	GLN	
1	S	520	GLN	
1	S	524	ASN	
1	S	545	ASN	
1	S	556	ASN	
1	S	560	ASN	
1	S S S S S S S S S	564	ASN	
1	S	616	HIS	
1	S	637	ASN	
1	S	725	HIS	
1	S T T T T T T T T T T T T T T T T T T T	226	HIS	
1	Т	249	ASN	
1	Т	278	HIS	
1	Т	291	ASN ASN	
1	Т	292	ASN	
1	Т	392	GLN	
1	Т	398	ASN	
1	Т	444	ASN	
1	Т	481	ASN	
1	Т	497	GLN	
1	Т	520	GLN	
1	Т	524	ASN	
1	Т	545	ASN	
1	Т	556	ASN	
1	Т	560	ASN	
1	Т	564	ASN	
1	Т	616	HIS	
1	Т	637	ASN	
1	Т	725	HIS	
1	U	226	HIS	
1	U	249	ASN	
1	U	278	HIS	
1	U	291	ASN	
1	U	292	ASN	
1	U	392	GLN	
1	U	398	ASN	
1	U	444	ASN	
1	U	481	ASN	
1	U	497	GLN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	U	520	GLN	
1	U	524	ASN	
1	U	545	ASN	
1	U	556	ASN	
1	U	560	ASN	
1	U	564	ASN	
1	U	616	HIS	
1	U	637	ASN	
1	U	725	HIS	
1	V	226	HIS	
1	V	249	ASN	
1	V	278	HIS	
1	V	291	ASN	
1	V	292	ASN	
1	V	392	GLN	
1	V	398	ASN	
1	V	444	ASN	
1	V	481	ASN	
1	V V V	497	GLN	
1	V	520	GLN	
1	V	524	ASN	
1	V	545	ASN	
1	V	556	ASN	
1	V	560	ASN	
1	V	564	ASN	
1	V	584	GLN	
1	V	616	HIS	
1	V	637	ASN	
1	V	725	HIS	
1	W	226	HIS	
1	W	249	ASN	
1	W	278	HIS	
1	W	291	ASN	
1	W	292	ASN	
1	W	392	GLN	
1	W	398	ASN	
1	W	444	ASN	
1	W	481	ASN	
1	W	497	GLN	
1	W	520	GLN	
1	W	524	ASN	
1	W	545	ASN	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	W	556	ASN	
1	W	560	ASN	
1	W	564	ASN	
1	W	616	HIS	
1	W	637	ASN	
1	W	725	HIS	
1	X	226	HIS	
1	X	249	ASN	
1	X	278	HIS	
1	X	291	ASN	
1	X	292	ASN	
1	X	392	GLN	
1	X	398	ASN	
1	X	444	ASN	
1	X	481	ASN	
1	X	497	GLN	
1	X X	520	GLN	
1	X	524	ASN	
1	X	545	ASN	
1	X	556	ASN	
1	X	560	ASN	
1	X	564	ASN	
1	X	616	HIS	
1	X	637	ASN	
1	X	725	HIS	
1	Y	226	HIS	
1	Y	249	ASN	
1	Y	278	HIS	
1	Y	291	ASN	
1	Y	292	ASN	
1	Y	392	GLN	
1	Y	398	ASN	
1	Y Y	444	ASN	
1	Y	481	ASN	
1	Y	497	GLN	
1	Y	520	GLN	
1	Y	524	ASN	
1	Y	545	ASN	
1	Y	556	ASN	
1	Y	560	ASN	
1	Y Y	564	ASN	
1	Y	616	HIS	

Y | 616 | HIS | Continued on next page...



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	Continued from previous page			
Mol	Chain	Res	Type	
1	Y	637	ASN	
1	Y	725	HIS	
1	Z	226	HIS	
1	Z	249	ASN	
1	Z	278	HIS	
1	Z	291	ASN	
1	Z	292	ASN	
1	Z	392	GLN	
1	Z	398	ASN	
1	Z	444	ASN	
1	Z	481	ASN	
1	Z	497	GLN	
1	Z	520	GLN	
1	Z	524	ASN	
1	Z	545	ASN	
1	Z	556	ASN	
1	Z	560	ASN	
1	Z	564	ASN	
1	Z	616	HIS	
1	Z	637	ASN	
1	Z	725	HIS	
1	a	226	HIS	
1	a	249	ASN	
1	a	278	HIS	
1	a	291	ASN	
1	a	292	ASN	
1	a	392	GLN	
1	a	398	ASN	
1	a	444	ASN	
1	a	481	ASN	
1	a	497	GLN	
1	a	520	GLN	
1	a	524	ASN	
1	a	545	ASN	
1	a	556	ASN	
1	a	560	ASN	
1	a	564	ASN	
1	a	616	HIS	
1	a	637	ASN	
1	a	725	HIS	
1	b	226	HIS	
1	b	249	ASN	



Continued from previous page...

Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	b	278	HIS	
1	b	291	ASN	
1	b	292	ASN	
1	b	392	GLN	
1	b	398	ASN	
1	b	444	ASN	
1	b	481	ASN	
1	b	497	GLN	
1	b	520	GLN	
1	b	524	ASN	
1	b	545	ASN	
1	b	556	ASN	
1	b	560	ASN	
1	b	564	ASN	
1	b	616	HIS	
1	b	637	ASN	
1	b	725	HIS	
1	С	226	HIS	
1	С	249	ASN	
1	С	278	HIS	
1	С	291	ASN	
1	С	292	ASN	
1	С	392	GLN	
1	С	398	ASN	
1	С	444	ASN	
1	С	481	ASN	
1	С	497	GLN	
1	С	520	GLN	
1	С	524	ASN	
1	c	545	ASN	
1	С	556	ASN	
1	С	560	ASN	
1	С	564	ASN	
1	С	616	HIS	
1	С	637	ASN	
1	С	725	HIS	
1	d	226	HIS	
1	d	249	ASN	
1	d	278	HIS	
1	d	291	ASN	
1	d	292	ASN	
1	d	392	GLN	



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			ous page
Mol	Chain	Res	Type
1	d	398	ASN
1	d	444	ASN
1	d	481	ASN
1	d	497	GLN
1	d	520	GLN
1	d	524	ASN
1	d	545	ASN
1	d	556	ASN
1	d	560	ASN
1	d	564	ASN
1	d	616	HIS
1	d	637	ASN
1	d	725	HIS
1	е	226	HIS
1	е	249	ASN
1	е	278	HIS
1	е	291	ASN
1	е	292	ASN
1	е	392	GLN
1	е	398	ASN
1	е	444	ASN
1	е	481	ASN
1	e	497	GLN
1	е	520	GLN
1	e	524	ASN
1	е	545	ASN
1	e	556	ASN
1	е	560	ASN
1	е	564	ASN
1	e	616	HIS
1	е	637	ASN
1	e	725	HIS
1	f	226	HIS
1	f	249	ASN
1	f	278	HIS
1	f	291	ASN
1	f	292	ASN
1	f	392	GLN
1	f	398	ASN
1	f	444	ASN
1	f	481	ASN
1	f	497	GLN
	_	•	



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Continued from previous page			
Mol	Chain	Res	Type
1	f	520	GLN
1	f	524	ASN
1	f	545	ASN
1	f	556	ASN
1	f	560	ASN
1	f	564	ASN
1	f	616	HIS
1	f	637	ASN
1	f	725	HIS
1	g	226	HIS
1	g	249	ASN
1	g	278	HIS
1	g	291	ASN
1	g	292	ASN
1	g	392	GLN
1	g	398	ASN
1	g	444	ASN
1	g	481	ASN
1	g	497	GLN
1	g	520	GLN
1	g	524	ASN
1	g	545	ASN
1	g	556	ASN
1	g	560	ASN
1	g	564	ASN
1	g	616	HIS
1	g	637	ASN
1	g	725	HIS
1	h	226	HIS
1	h	249	ASN
1	h	278	HIS
1	h	291	ASN
1	h	292	ASN
1	h	392	GLN
1	h	398	ASN
1	h	444	ASN
1	h	481	ASN
1	h	497	GLN
1	h	520	GLN
1	h	524	ASN
1	h	545	ASN
1	h	556	ASN



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	Continued from previous page				
Mol	Chain	Res	Type		
1	h	560	ASN		
1	h	564	ASN		
1	h	616	HIS		
1	h	637	ASN		
1	h	725	HIS		
1	i	226	HIS		
1	i	249	ASN		
1	i	278	HIS		
1	i	291	ASN		
1	i	292	ASN		
1	i	392	GLN		
1	i	398	ASN		
1	i	444	ASN		
1	i	481	ASN		
1	i	497	GLN		
1	i	520	GLN		
1	i	524	ASN		
1	i	545	ASN		
1	i	556	ASN		
1	i	560	ASN		
1	i	564	ASN		
1	i	616	HIS		
1	i	637	ASN		
1	i	725	HIS		
1	j	226	HIS		
1	j	249	ASN		
1	j	278	HIS		
1	j	291	ASN		
1	j	292	ASN		
1	j j	392	GLN		
1	j	398	ASN		
1	j j j j	444	ASN		
1	j	481	ASN		
1	j	497	GLN		
1	j	520	GLN		
1	j	524	ASN		
1		545	ASN		
1	j	556	ASN		
1	j	560	ASN		
1	j	564	ASN		
1	j j j	616	HIS		
1	j	637	ASN		



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	j	725	HIS	
1	k	226	HIS	
1	k	249	ASN	
1	k	278	HIS	
1	k	291	ASN	
1	k	292	ASN	
1	k	392	GLN	
1	k	398	ASN	
1	k	444	ASN	
1	k	481	ASN	
1	k	497	GLN	
1	k	520	GLN	
1	k	524	ASN	
1	k	545	ASN	
1	k	556	ASN	
1	k	560	ASN	
1	k	564	ASN	
1	k	616	HIS	
1	k	637	ASN	
1	k	725	HIS	
1	1	226	HIS	
1	1	249	ASN	
1	1	278	HIS	
1	1	291	ASN	
1	1	292	ASN	
1	1	392	GLN	
1	1	398	ASN	
1	1	444	ASN	
1	1	481	ASN	
1	1	497	GLN	
1	1	520	GLN	
1	1	524	ASN	
1	1	545	ASN	
1	1	556	ASN	
1	1	560	ASN	
1	1	564	ASN	
1	1	616	HIS	
1	1	637	ASN	
1	1	725	HIS	
1	m	226	HIS	
1	m	249	ASN	
1	m	278	HIS	



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	m	291	ASN	
1	m	292	ASN	
1	m	392	GLN	
1	m	398	ASN	
1	m	444	ASN	
1	m	481	ASN	
1	m	497	GLN	
1	m	520	GLN	
1	m	524	ASN	
1	m	545	ASN	
1	m	556	ASN	
1	m	560	ASN	
1	m	564	ASN	
1	m	616	HIS	
1	m	637	ASN	
1	m	725	HIS	
1	n	226	HIS	
1	n	249	ASN	
1	n	278	HIS	
1	n	291	ASN	
1	n	292	ASN	
1	n	392	GLN	
1	n	398	ASN	
1	n	444	ASN	
1	n	481	ASN	
1	n	497	GLN	
1	n	520	GLN	
1	n	524	ASN	
1	n	545	ASN	
1	n	556	ASN	
1	n	560	ASN	
1	n	564	ASN	
1	n	616	HIS	
1	n	637	ASN	
1	n	725	HIS	
1	О	226	HIS	
1	О	249	ASN	
1	О	278	HIS	
1	О	291	ASN	
1	О	292	ASN	
1	О	392	GLN	
1	О	398	ASN	



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Mol	Chain	Res	Type
1	О	444	ASN
1	0	481	ASN
1	0	497	GLN
1	О	520	GLN
1	0	524	ASN
1	О	545	ASN
1	О	556	ASN
1	О	560	ASN
1	О	564	ASN
1	О	616	HIS
1	О	637	ASN
1	О	725	HIS
1	р	226	HIS
1	p	249	ASN
1	p	278	HIS
1	р	291	ASN
1	р	292	ASN
1	p	392	GLN
1	p	398	ASN
1	p	444	ASN
1	р	481	ASN
1	р	497	GLN
1	р	520	GLN
1	р	524	ASN
1	р	545	ASN
1	р	556	ASN
1	р	560	ASN
1	р	564	ASN
1	р	584	GLN
1	р	616	HIS
1	р	637	ASN
1	p	725	HIS
1	q	226	HIS
1	q	249	ASN
1	q	278	HIS
1	q	291	ASN
1	q	292	ASN
1	q	392	GLN
1	q	398	ASN
1	q	444	ASN
1	q	481	ASN
1	q	497	GLN



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	q	520	GLN	
1	q	524	ASN	
1	q	545	ASN	
1	q	556	ASN	
1	q	560	ASN	
1	q	564	ASN	
1	q	584	GLN	
1	q	616	HIS	
1	q	637	ASN	
1	q	725	HIS	
1	r	226	HIS	
1	r	249	ASN	
1	r	278	HIS	
1	r	291	ASN	
1	r	292	ASN	
1	r	392	GLN	
1	r	398	ASN	
1	r	444	ASN	
1	r	481	ASN	
1	r	497	GLN	
1	r	520	GLN	
1	r	524	ASN	
1	r	545	ASN	
1	r	556	ASN	
1	r	560	ASN	
1	r	564	ASN	
1	r	616	HIS	
1	r	637	ASN	
1	r	725	HIS	
1	S	226	HIS	
1	s	249	ASN	
1	s	278	HIS	
1	s	291	ASN	
1	s	292	ASN	
1	s	392	GLN	
1	s	398	ASN	
1	s	444	ASN	
1	s	481	ASN	
1	s	497	GLN	
1	s	520	GLN	
1	s	524	ASN	
1	S	545	ASN	

S | 545 | ASN | Continued on next page...



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Mol	Chain	Res	Type
1	S	556	ASN
1	S	560	ASN
1	S	564	ASN
1	s	616	HIS
1	s	637	ASN
1	S	725	HIS
1	t	226	HIS
1	t	249	ASN
1	t	278	HIS
1	t	291	ASN
1	t	292	ASN
1	t	392	GLN
1	t	398	ASN
1	t	444	ASN
1	t	481	ASN
1	t	497	GLN
1	t	520	GLN
1	t	524	ASN
1	t	545	ASN
1	t	556	ASN
1	t	560	ASN
1	t	564	ASN
1	t	584	GLN
1	t	616	HIS
1	t	637	ASN
1	t	725	HIS
1	u	226	HIS
1	u	249	ASN
1	u	278	HIS
1	u	291	ASN
1	u	292	ASN
1	u	392	GLN
1	u	398	ASN
1	u	444	ASN
1	u	481	ASN
1	u	497	GLN
1	u	520	GLN
1	u	524	ASN
1	u	545	ASN
1	u	556	ASN
1	u	560	ASN
1	u	564	ASN
	1		



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Mol	Chain	Res	Type
1	u	584	GLN
1	u	616	HIS
1	u	637	ASN
1	u	725	HIS
1	V	226	HIS
1	V	249	ASN
1	V	278	HIS
1	V	291	ASN
1	V	292	ASN
1	V	392	GLN
1	V	398	ASN
1	V	444	ASN
1	V	481	ASN
1	V	497	GLN
1	V	520	GLN
1	V	524	ASN
1	V	545	ASN
1	V	556	ASN
1	V	560	ASN
1	V	564	ASN
1	V	616	HIS
1	V	637	ASN
1	V	725	HIS
1	W	226	HIS
1	W	249	ASN
1	W	278	HIS
1	W	291	ASN
1	W	292	ASN
1	W	392	GLN
1	W	398	ASN
1	W	444	ASN
1	W	481	ASN
1	W	497	GLN
1	W	520	GLN
1	W	524	ASN
1	W	545	ASN
1	W	556	ASN
1	W	560	ASN
1	W	564	ASN
1	W	584	GLN
1	W	616	HIS
1	W	637	ASN

W | 637 | ASN | Continued on next page...



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Mol	Chain	Res	Type
1	W	725	HIS
1	X	226	HIS
1	X	249	ASN
1	X	278	HIS
1	X	291	ASN
1	X	292	ASN
1	X	392	GLN
1	X	398	ASN
1	X	444	ASN
1	X	481	ASN
1	X	497	GLN
1	X	520	GLN
1	X	524	ASN
1	X	545	ASN
1	X	556	ASN
1	X	560	ASN
1	X	564	ASN
1	X	616	HIS
1	X	637	ASN
1	X	725	HIS
1	у	226	HIS
1	у	249	ASN
1	у	278	HIS
1	у	291	ASN
1	у	292	ASN
1	у	392	GLN
1	у	398	ASN
1	у	444	ASN
1	у	481	ASN
1	у	497	GLN
1	у	520	GLN
1	y	524	ASN
1	y	545	ASN
1	у	556	ASN
1	у	560	ASN
1	у	564	ASN
1	у	616	HIS
1	y	637	ASN
1	у	725	HIS
1	Z	226	HIS
1	Z	249	ASN
1	Z	278	HIS

Z | 278 | HIS | Continued on next page...



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Continued from previous page			
Mol	Chain	Res	Type
1	Z	291	ASN
1	Z	292	ASN
1	Z	392	GLN
1	Z	398	ASN
1	Z	444	ASN
1	Z	481	ASN
1	Z	497	GLN
1	Z	520	GLN
1	Z	524	ASN
1	Z	545	ASN
1	Z	556	ASN
1	Z	560	ASN
1	Z	564	ASN
1	Z	616	HIS
1	Z	637	ASN
1	Z	725	HIS
1	1	226	HIS
1	1	249	ASN
1	1	278	HIS
1	1	291	ASN
1	1	292	ASN
1	1	392	GLN
1	1	398	ASN
1	1	444	ASN
1	1	481	ASN
1	1	497	GLN
1	1	520	GLN
1	1	524	ASN
1	1	545	ASN
1	1	556	ASN
1	1	560	ASN
1	1	564	ASN
1	1	616	HIS
1	1	637	ASN
1	1	725	HIS
1	2	226	HIS
1	2	249	ASN
1	2	278	HIS
1	2	291	ASN
1	2	292	ASN
1	2	392	GLN
1	2	398	ASN

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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	2	444	ASN	
1	2	481	ASN	
1	2	497	GLN	
1	2	520	GLN	
1	2	524	ASN	
1	2	545	ASN	
1	2	556	ASN	
1	2	560	ASN	
1	2	564	ASN	
1	2	584	GLN	
1	2	616	HIS	
1	2	637	ASN	
1	2	725	HIS	
1	3	226	HIS	
1	3	249	ASN	
1	3	278	HIS	
1	3	291	ASN	
1	3	292	ASN	
1	3	392	GLN	
1	3	398	ASN	
1	3	444	ASN	
1	3	481	ASN	
1	3	497	GLN	
1	3	520	GLN	
1	3	524	ASN	
1	3	545	ASN	
1	3	556	ASN	
1	3	560	ASN	
1	3	564	ASN	
1	3	616	HIS	
1	3	637	ASN	
1	3	725	HIS	
1	4	226	HIS	
1	4	249	ASN	
1	4	278	HIS	
1	4	291	ASN	
1	4	292	ASN	
1	4	392	GLN	
1	4	398	ASN	
1	4	444	ASN	
1	4	481	ASN	
1	4	497	GLN	



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Mol	Chain	Res	Type
1	4	520	GLN
1	4	524	ASN
1	4	545	ASN
1	4	556	ASN
1	4	560	ASN
1	4	564	ASN
1	4	616	HIS
1	4	637	ASN
1	4	725	HIS
1	5	226	HIS
1	5	249	ASN
1	5	278	HIS
1	5	291	ASN
1	5	292	ASN
1	5	392	GLN
1	5	398	ASN
1	5	444	ASN
1	5	481	ASN
1	5	497	GLN
1	5	520	GLN
1	5	524	ASN
1	5	545	ASN
1	5	556	ASN
1	5	560	ASN
1	5	564	ASN
1	5	584	GLN
1	5	616	HIS
1	5	637	ASN
1	5	725	HIS
1	6	226	HIS
1	6	249	ASN
1	6	278	HIS
1	6	291	ASN
1	6	292	ASN
1	6	392	GLN
1	6	398	ASN
1	6	444	ASN
1	6	481	ASN
1	6	497	GLN
1	6	520	GLN
1	6	524	ASN
1	6	545	ASN

 $\begin{array}{|c|c|c|c|c|c|} \hline 6 & 545 & ASN \\ \hline Continued on next page... \\ \hline \end{array}$



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Mol	Chain	Res	Type
1	6	556	ASN
1	6	560	ASN
1	6	564	ASN
1	6	616	HIS
1	6	637	ASN
1	6	725	HIS
1	7	226	HIS
1	7	249	ASN
1	7	278	HIS
1	7	291	ASN
1	7	292	ASN
1	7	392	GLN
1	7	398	ASN
1	7	444	ASN
1	7	481	ASN
1	7	497	GLN
1	7	520	GLN
1	7	524	ASN
1	7	545	ASN
1	7	556	ASN
1	7	560	ASN
1	7	564	ASN
1	7	616	HIS
1	7	637	ASN
1	7	725	HIS
1	8	226	HIS
1	8	249	ASN
1	8	278	HIS
1	8	291	ASN
1	8	292	ASN
1	8	392	GLN
1	8	398	ASN
1	8	444	ASN
1	8	481	ASN
1	8	497	GLN
1	8	520	GLN
1	8	524	ASN
1	8	545	ASN
1	8	556	ASN
1	8	560	ASN
1	8	564	ASN
1	8	616	HIS



Continued from previous page...

Mol	Chain	Res	Type
1	8	637	ASN
1	8	725	HIS

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no 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)

There are no chain breaks in this entry.



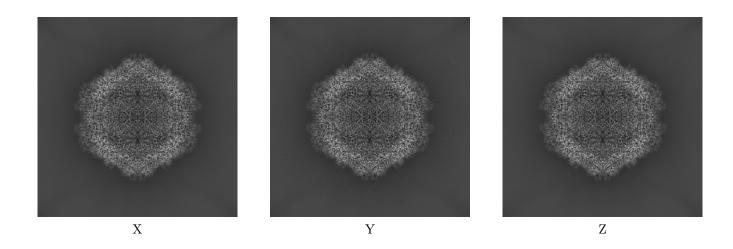
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-26392. These allow visual inspection of the internal detail of the map and identification of artifacts.

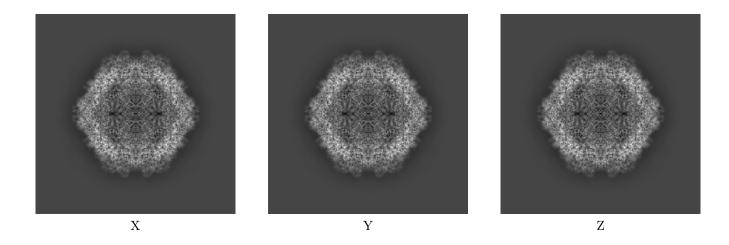
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

6.1.1 Primary map



6.1.2 Raw map

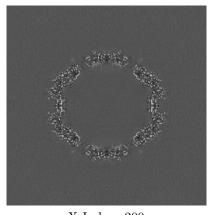


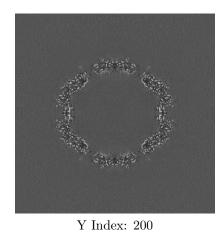
The images above show the map projected in three orthogonal directions.

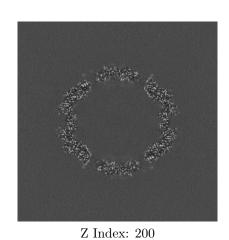


6.2 Central slices (i)

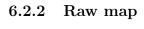
6.2.1 Primary map

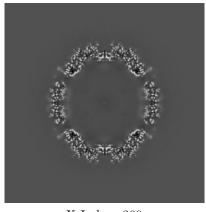




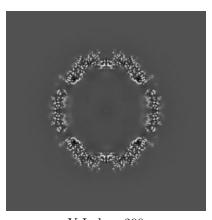


X Index: 200

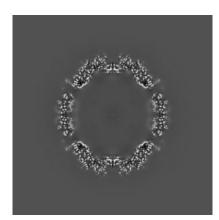








Y Index: 200



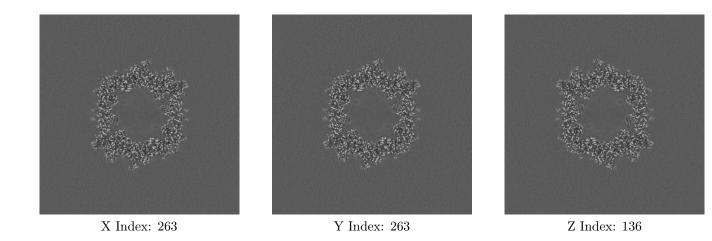
Z Index: 200

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

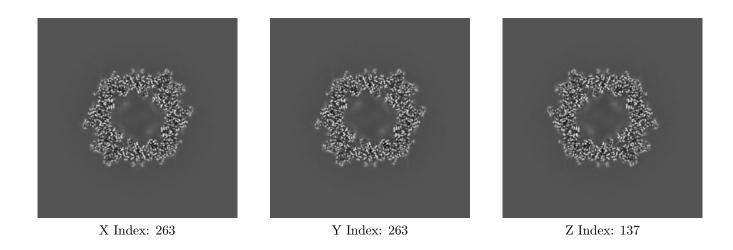


6.3 Largest variance slices (i)

6.3.1 Primary map



6.3.2 Raw map

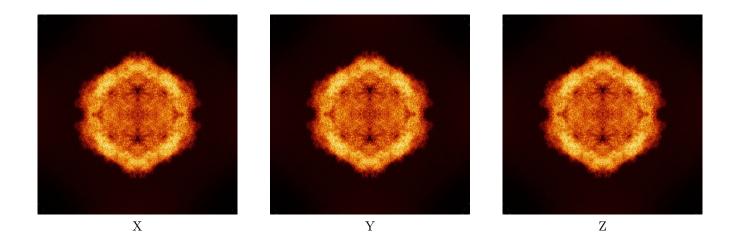


The images above show the largest variance slices of the map in three orthogonal directions.

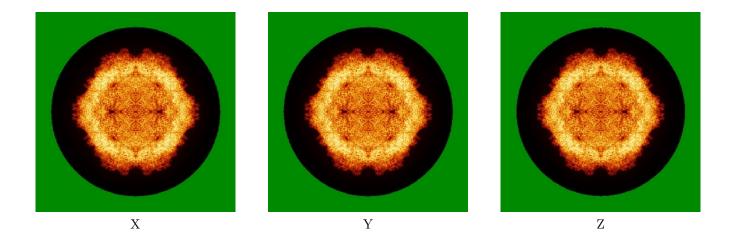


6.4 Orthogonal standard-deviation projections (False-color) (i)

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.



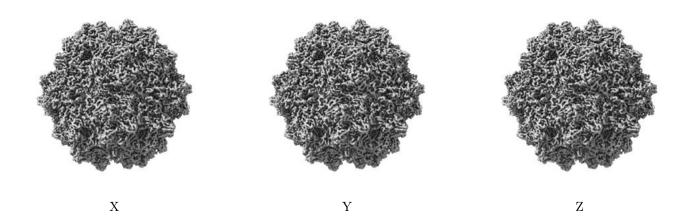
6.5 Orthogonal surface views (i)

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)

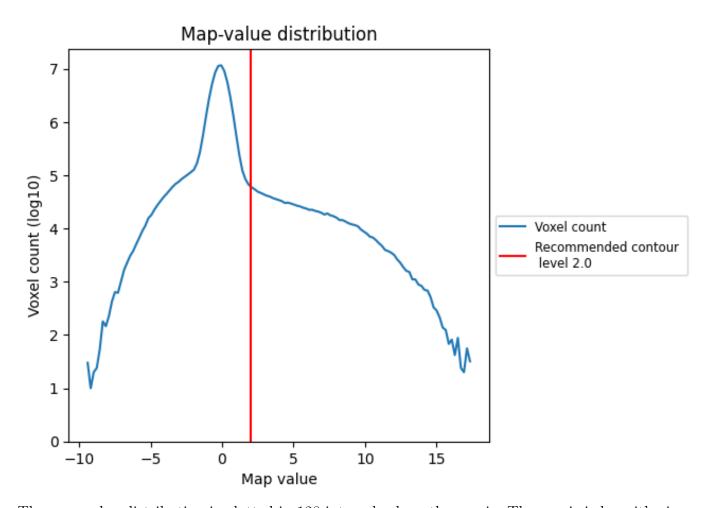
This section was not generated. No masks/segmentation were deposited.



7 Map analysis (i)

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

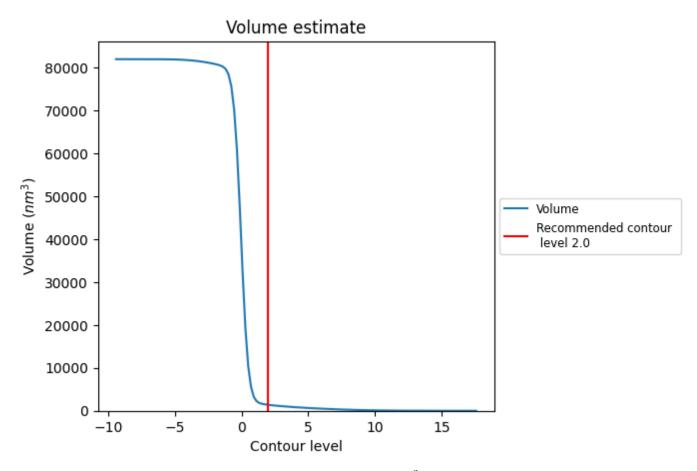
7.1 Map-value distribution (i)



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)

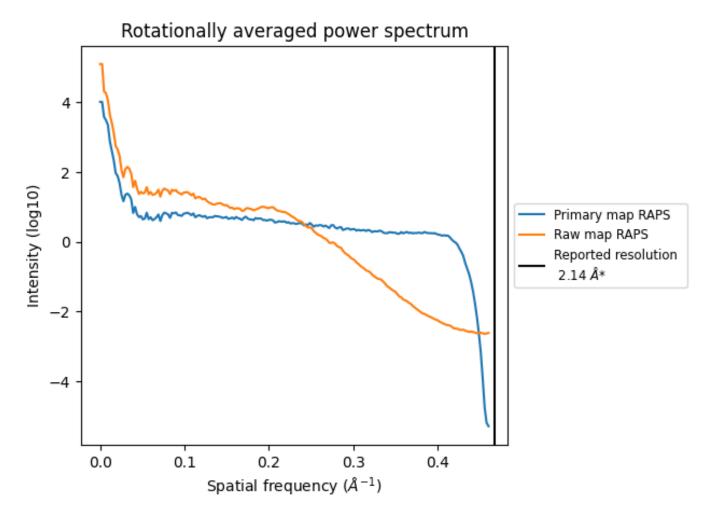


The volume at the recommended contour level is $1392~\mathrm{nm}^3$; this corresponds to an approximate mass of $1258~\mathrm{kDa}$.

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)



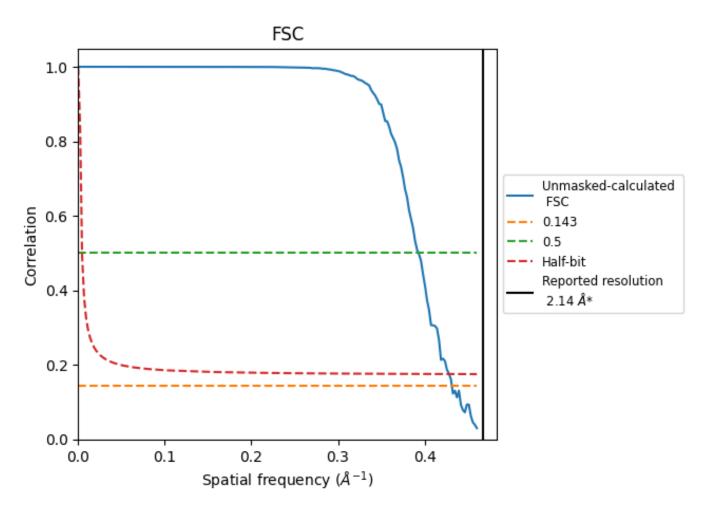
^{*}Reported resolution corresponds to spatial frequency of 0.467 $\rm \mathring{A}^{-1}$



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 0.467 Å $^{-1}$



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	2.14	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.32	2.54	2.33

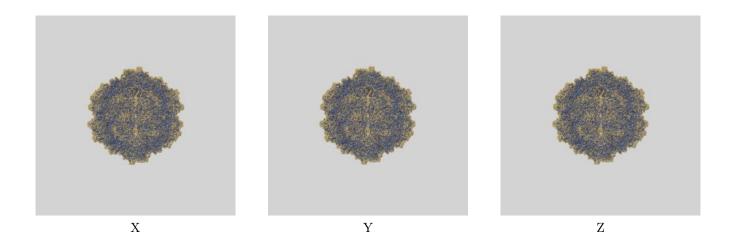
^{*}Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.



9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-26392 and PDB model 7U96. Per-residue inclusion information can be found in section 3 on page 10.

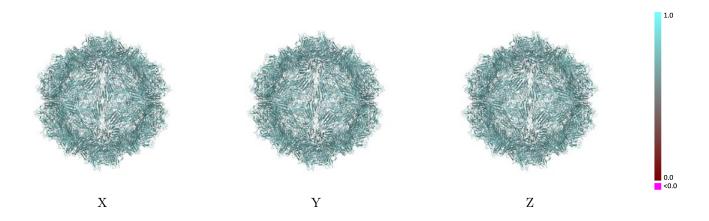
9.1 Map-model overlay (i)



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.

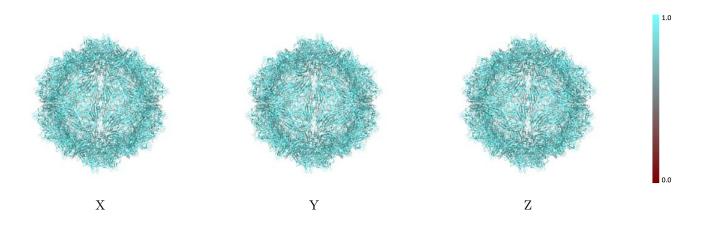


9.2 Q-score mapped to coordinate model (i)



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.

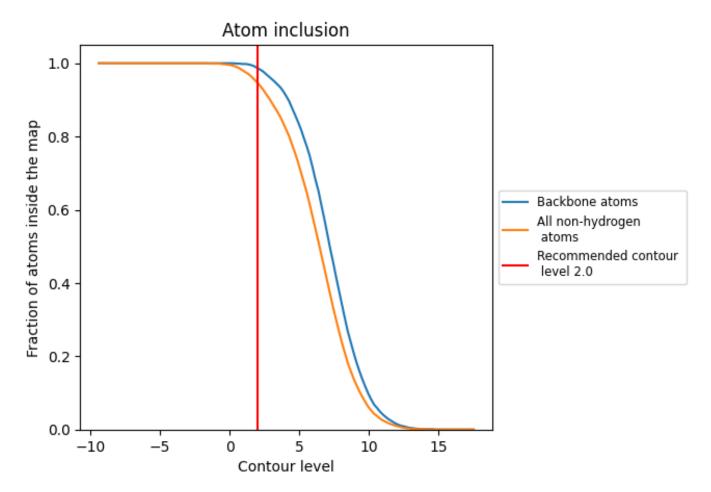
9.3 Atom inclusion mapped to coordinate model (i)



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 (2.0).



9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 95% 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 (2.0) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9470	0.6930
1	0.9470	0.6930
2	0.9470	0.6930
3	0.9460	0.6940
4	0.9470	0.6950
5	0.9460	0.6930
6	0.9460	0.6930
7	0.9460	0.6920
8	0.9470	0.6930
A	0.9460	0.6930
В	0.9460	0.6930
С	0.9460	0.6950
D	0.9460	0.6920
E	0.9470	0.6920
F	0.9460	0.6930
G	0.9470	0.6920
Н	0.9460	0.6930
I	0.9460	0.6950
J	0.9470	0.6920
K	0.9470	0.6950
L	0.9460	0.6930
M	0.9470	0.6930
N	0.9460	0.6920
О	0.9470	0.6920
Р	0.9460	0.6920
Q	0.9460	0.6950
R	0.9460	0.6930
S	0.9470	0.6930
T	0.9470	0.6960
U	0.9460	0.6930
V	0.9460	0.6950
W	0.9460	0.6930
X	0.9470	0.6920
Y	0.9460	0.6930
Z	0.9470	0.6930





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Chain	Atom inclusion	Q-score
a	0.9460	0.6930
b	0.9460	0.6940
С	0.9460	0.6930
d	0.9460	0.6930
e	0.9460	0.6930
f	0.9460	0.6940
g	0.9470	0.6950
h	0.9470	0.6920
i	0.9460	0.6930
j	0.9460	0.6920
k	0.9470	0.6920
1	0.9470	0.6920
m	0.9470	0.6960
n	0.9460	0.6930
0	0.9470	0.6930
p	0.9470	0.6940
q	0.9470	0.6930
r	0.9470	0.6930
S	0.9470	0.6920
t	0.9470	0.6930
u	0.9470	0.6950
V	0.9470	0.6930
W	0.9470	0.6920
X	0.9470	0.6940
У	0.9470	0.6930
Z	0.9470	0.6930

