

Full wwPDB EM Validation Report (i)

Jan 27, 2025 – 03:39 PM EST

PDB ID : 9ME0

EMDB ID : EMD-48181

Title : Goose Parvovirus Capsid

Authors: Jabbari, K.; Mietzsch, M.; McKenna, R.

Deposited on : 2024-12-05

Resolution : 2.43 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at http://www.wwpdb.org/validation/2017/FAQs#types.

The following versions of software and data (see references (1)) were used in the production of this report:

EMDB validation analysis : 0.0.1.dev113

MolProbity : 4.02b-467

Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)

 $MapQ \quad : \quad 1.9.13$

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

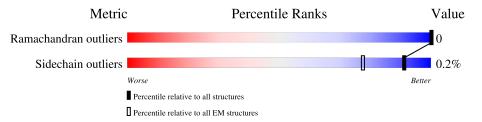
Validation Pipeline (wwPDB-VP) : 2.40

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.43 Å.

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



Metric	Whole archive $(\# \mathrm{Entries})$	${ m EM\ structures} \ (\#{ m Entries})$
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion <40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain	
1	1	732	71%	29%
1	2	732	71%	29%
1	3	732	71%	29%
1	4	732	71%	29%
1	5	732	71%	29%
1	6	732	71%	29%
1	7	732	71%	29%
1	8	732	71%	29%
1	A	732	71%	29%



Mol	Chain	Length	Quality of chain	
1	В	732	71%	29%
1	С	732	71%	29%
1	D	732	71%	29%
1	Е	732	71%	29%
1	F	732	71%	29%
1	G	732	71%	29%
1	Н	732	71%	29%
1	I	732	71%	29%
1	J	732	71%	29%
1	K	732	71%	29%
1	L	732	71%	29%
1	M	732	71%	29%
1	N	732	71%	29%
1	О	732	71%	29%
1	Р	732	71%	29%
1	Q	732	71%	29%
1	R	732	71%	29%
1	S	732	71%	29%
1	Т	732	71%	29%
1	U	732	71%	29%
1	V	732	71%	29%
1	W	732	71%	29%
1	X	732	71%	29%
1	Y	732	71%	29%
1	Z	732	71%	29%



Mol	Chain	Length	Quality of chain	
10101	Chain	rengin	Quanty of chain	
1	a	732	71%	29%
1	b	732	71%	29%
1	c	732	71%	29%
1	d	732	71%	29%
1	е	732	71%	29%
1	f	732	71%	29%
1	g	732	71%	29%
1	h	732	71%	29%
1	i	732	71%	29%
1	j	732	71%	29%
1	k	732	71%	29%
1	1	732	71%	29%
1	m	732	71%	29%
1	n	732	71%	29%
1	О	732	71%	29%
1	p	732	71%	29%
1	q	732	71%	29%
1	r	732	71%	29%
1	S	732	71%	29%
1	t	732	71%	29%
1	u	732	71%	29%
1	V	732	71%	29%
1	W	732	71%	29%
1		732		
	X		71%	29%
1	У	732	71%	29%



Mol	Chain	Length	Quality of chain	
1	Z	732	71%	29%



2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 249900 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.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Mol	Chain	Residues		At	oms			AltConf	Trace
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	٨	F10	Total	С	N	О	S	0	0
1 B 519 4165 2640 719 790 16 0 0 1 C 519 Total C N O S 0 0 1 D 519 Total C N O S 0 0 1 E 519 Total C N O S 0 0 1 E 519 Total C N O S 0 0 1 F 519 Total C N O S 0 0 1 F 519 Total C N O S 0 0 1 G 519 Total C N O S 0 0 1 H 519 Total C N O S 0 0 1 I 519 Total C N O S 0 0 1 K 519 Total	1	A	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	В	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	C	F10	Total	С	N	О	S	0	0
1 D 519 4165 2640 719 790 16 0 0 1 E 519 Total C N O S 0 0 1 F 519 Total C N O S 0 0 1 G 519 Total C N O S 0 0 1 G 519 Total C N O S 0 0 1 H 519 Total C N O S 0 0 1 H 519 Total C N O S 0 0 1 J 519 Total C N O S 0 0 1 J 519 Total C N O S 0 0 1 J 519 Total C N O S 0 0 1 K 519 Total	1		519	4165	2640	719	790	16	U	0
1 E 519 Total C N O S 4165 2640 719 790 16 0 0 0 1 F 519 Total C N O S 4165 2640 719 790 16 0 0 0 0 1 F 519 Total C N O S 4165 2640 719 790 16 0 0 0 0 1 G 519 Total C N O S 4165 2640 719 790 16 0 0 0 0 1 H 519 Total C N O S 4165 2640 719 790 16 0 0 0 0 1 I 519 Total C N O S 5 719 790 16 0 0 0 0 1 J 519 Total C N O S 5 719 790 16 0 0 0 0 1 K 519 Total C N O S 719 790 16 0 0 0 0 1 L 519 Total C N O S 719 790 16 0 0 0 0 1 M 519 Total C N O S 719 790 16 0 0 0 0 1 M 519 Total C N O S 719 790 16 0 0 0 0 <t< td=""><td>1</td><td>D</td><td>510</td><td>Total</td><td>С</td><td>N</td><td>О</td><td>S</td><td>0</td><td>0</td></t<>	1	D	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	D	319	4165	2640	719	790	16	U	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Ŀ	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	E	319	4165	2640	719	790	16	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	E	510	Total	С	N	О	S	0	0
1 G 519 4165 2640 719 790 16 0 0 1 H 519 Total C N O S 0 0 1 I 519 Total C N O S 0 0 1 J 519 Total C N O S 0 0 1 K 519 Total C N O S 0 0 1 K 519 Total C N O S 0 0 1 L 519 Total C N O S 0 0 1 M 519 Total C N O S 0 0 1 M 519 Total C N O S 0 0 1 N 519 Total C N O S 0 0 1 O 519 Total	1	Г	319	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	С	510	Total	С	N	О	S	0	0
1 H 519 4165 2640 719 790 16 0 0 1 I 519 Total C N O S 0 0 1 J 519 Total C N O S 0 0 1 K 519 Total C N O S 0 0 1 K 519 Total C N O S 0 0 1 L 519 Total C N O S 0 0 1 M 519 Total C N O S 0 0 1 M 519 Total C N O S 0 0 1 N 519 Total C N O S 0 0 1 O 519 Total C N O S 0 0 1 O 519 Total	1	G	319	4165	2640	719	790	16	U	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	П	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	11	319	4165	2640	719	790	16		U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Т	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	519	4165	2640	719	790	16	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Ţ	510	Total	С	N	О	S	n	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	J	319	4165	2640	719	790	16	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	I/	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	IX	319	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Т	510	Total	С	N	О	S	0	0
1 M 519 4165 2640 719 790 16 0 0 1 N 519 Total C N O S 0 0 1 O 519 Total C N O S 0 0 Total C N O S Total C N O S	1	ш	319	4165	2640	719	790	16	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	М	510	Total	С	N	О	S	0	0
1 O 519 4165 2640 719 790 16 0 0 1 O 519 Total C N O S 0 0 Total C N O S 0 0	1	1V1	319	4165			790		U	U
1 O 519 Total C N O S 0 0 Total C N O S 719 Total C N O S	1	N	510	Total	С	N	О	\mathbf{S}	0	0
1 O 519 4165 2640 719 790 16 O Total C N O S	1	11	019	4165	2640	719	790		U	U
70tal C N O S	1	0	510	Total	С	N	О	\mathbf{S}	0	0
Total C N O S	1	U	019	4165	2640	719	790	16	U	U
	1	P	519	Total	С	N	О	S	0	0
4165 2640 719 790 16		1	019				790		U	U
1 Q 519 Total C N O S 0 0	1	0	510			N		S	0	0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		Q	019	4165	2640	719	790	16		0



Mol	Chain	$oxed{ \mathbf{Residues} }$	<i>yc</i>	A t	oms			AltConf	Trace
10101		residues	Total	$\frac{110}{\mathrm{C}}$	N	0	S		Trace
1	R	519	4165	2640	719	790	16	0	0
			Total	C	N	O	S		
1	S	519	4165	2640	719	790	16	0	0
			Total	C	N	O	S		_
1	T	519	4165	2640	719	790	16	0	0
1	TT	710	Total	С	N	О	S	0	0
1	U	519	4165	2640	719	790	16	0	0
1	7.7	F10	Total	С	N	О	S	0	0
1	V	519	4165	2640	719	790	16	0	0
1	W	519	Total	С	N	О	S	0	0
1	VV	319	4165	2640	719	790	16	U	U
1	X	519	Total	С	N	О	S	0	0
1	Λ	319	4165	2640	719	790	16	0	U
1	Y	519	Total	С	N	О	S	0	0
1	1	019	4165	2640	719	790	16	0	U
1	Z	519	Total	\mathbf{C}	N	Ο	S	0	0
1		015	4165	2640	719	790	16		0
1	a	519	Total	\mathbf{C}	N	O	\mathbf{S}	0	0
1	а	010	4165	2640	719	790	16	U	U
1	b	519	Total	С	N	О	S	0	0
			4165	2640	719	790	16		
1	c	519	Total	С	N	O	S	0	0
		010	4165	2640	719	790	16		
1	d	519	Total	С	N	0	S	0	0
			4165	2640	719	790	16		
1	e	519	Total	C	N 710	O	S	0	0
			4165	2640	719	790	16		
1	f	519	Total	C 2640	N 710	O 700	S 16	0	0
			4165 Total	2640 C	$\frac{719}{N}$	$\frac{790}{O}$	$\frac{16}{S}$		
1	g	519	4165	2640	719	790	5 16	0	0
			Total	C	N	O	S		
1	h	519	4165	2640	719	790	16	0	0
			Total	C	N	O	S		
1	i	519	4165	2640	719	790	16	0	0
		519	Total	C	N	O	S		
1	j		4165	2640	719	790	16	0	0
	_	519	Total	C	N	O	S		0
1	k		4165	2640	719	790	16	0	
_	-		Total	C	N	0	S	_	_
1	l	519	4165	2640	719	790	16	0	0
	<u> </u>				0		~	7	<u>. </u>



1 m 519 Total of 4165 of 2640 of 719 of 790 of 16 of 4165 of 2640 of 719 of 790 of 16 of 4165 of 2640 of 719 of 790 of 16 of 4165 of 2640 of 719 of 790 of 16 of 4165 of 2640 of 719 of 790 of 16 of 4165 of 2640 of 719 of 790 of 16 of 4165 of 2640 of 719 of 790 of 16 of 10 of 4165 of 2640 of 719 of 790 of 16 of 10 of 11 of 790 of 10 of 10 of 11 of 790 of 16 of 10 of 11 of 790 of 10 of 10 of 11 of 790 of 10 of 10 of 10 of 10 of 11 of 790 of 10 of	Mol	Chain	Residues	9	At	oms			AltConf	Trace
1	1		710	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	m	519	4165	2640	719	790	16	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		710	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	n	519	4165	2640	719	790	16	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	O	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		710	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	p	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	q	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	r	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	_	F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	S	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	t	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	u	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		710	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	V	519	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	W	519	4165	2640	719	790	16	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		F10	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	X	519	4165	2640	719	790	16	U	
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1		510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	У	319	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	-	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Z	319	4165	2640	719	790	16	U	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	1	319	4165	2640	719	790	16	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	9	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	Δ	319	4165	2640	719	790	16	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	2	510	Total	С	N	О	S	0	0
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	3	319	4165	2640	719	790	16	0	U
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1	4	510	Total	С	N	О	S	0	0
1 5 519 4165 2640 719 790 16 0 0 1 6 519 Total C N O S 4165 2640 719 790 16 0 0 1 7 519 Total C N O S O O O 0 0		4	519	4165	2640	719	790	16	U	U
1 6 519 Total C N O S 0 0 1 7 519 Total C N O S 0 0	1	5	519	Total	С	N	О	S	0	0
1 6 519 4165 2640 719 790 16 0 0 1 7 519 Total C N O S 0		J		4165	2640	719	790		U	U
1 7 519 Total C N O S 0 0	1	6	510	Total	С	N	О	S	0	0
$1 + 7 + 519 + \cdots + 0 + 0$		U	919	4165	2640	719	790	16	U	
4165 2640 719 790 16	1	7	510	Total	С	N	О	S	n	0
			919	4165	2640	719	790	16	U	



Mol	Chain	Residues		At	oms			AltConf	Trace
1	8	519	Total 4165	C 2640	N 719	O 790	S 16	0	0

There are 60 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	615	TRP	GLY	conflict	UNP Q67666
В	615	TRP	GLY	conflict	UNP Q67666
С	615	TRP	GLY	conflict	UNP Q67666
D	615	TRP	GLY	conflict	UNP Q67666
Е	615	TRP	GLY	conflict	UNP Q67666
F	615	TRP	GLY	conflict	UNP Q67666
G	615	TRP	GLY	conflict	UNP Q67666
Н	615	TRP	GLY	conflict	UNP Q67666
I	615	TRP	GLY	conflict	UNP Q67666
J	615	TRP	GLY	conflict	UNP Q67666
K	615	TRP	GLY	conflict	UNP Q67666
L	615	TRP	GLY	conflict	UNP Q67666
M	615	TRP	GLY	conflict	UNP Q67666
N	615	TRP	GLY	conflict	UNP Q67666
О	615	TRP	GLY	conflict	UNP Q67666
P	615	TRP	GLY	conflict	UNP Q67666
Q	615	TRP	GLY	conflict	UNP Q67666
R	615	TRP	GLY	conflict	UNP Q67666
S	615	TRP	GLY	conflict	UNP Q67666
Т	615	TRP	GLY	conflict	UNP Q67666
U	615	TRP	GLY	conflict	UNP Q67666
V	615	TRP	GLY	conflict	UNP Q67666
W	615	TRP	GLY	conflict	UNP Q67666
X	615	TRP	GLY	conflict	UNP Q67666
Y	615	TRP	GLY	conflict	UNP Q67666
Z	615	TRP	GLY	conflict	UNP Q67666
a	615	TRP	GLY	conflict	UNP Q67666
b	615	TRP	GLY	conflict	UNP Q67666
c	615	TRP	GLY	conflict	UNP Q67666
d	615	TRP	GLY	conflict	UNP Q67666
е	615	TRP	GLY	conflict	UNP Q67666
f	615	TRP	GLY	conflict	UNP Q67666
g	615	TRP	GLY	conflict	UNP Q67666
h	615	TRP	GLY	conflict	UNP Q67666
i	615	TRP	GLY	conflict	UNP Q67666
j	615	TRP	GLY	conflict	UNP Q67666

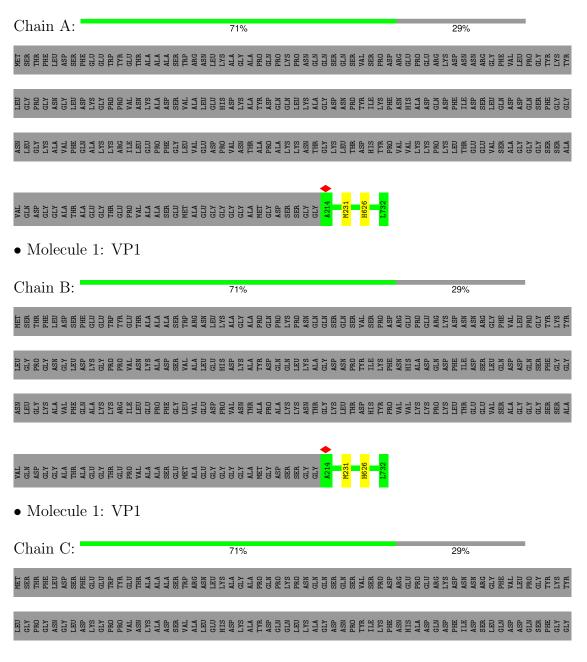


Chain	Residue	Modelled	Actual	Comment	Reference
k	615	TRP	GLY	conflict	UNP Q67666
1	615	TRP	GLY	conflict	UNP Q67666
m	615	TRP	GLY	conflict	UNP Q67666
n	615	TRP	GLY	conflict	UNP Q67666
0	615	TRP	GLY	conflict	UNP Q67666
p	615	TRP	GLY	conflict	UNP Q67666
q	615	TRP	GLY	conflict	UNP Q67666
r	615	TRP	GLY	conflict	UNP Q67666
S	615	TRP	GLY	conflict	UNP Q67666
t	615	TRP	GLY	conflict	UNP Q67666
u	615	TRP	GLY	conflict	UNP Q67666
V	615	TRP	GLY	conflict	UNP Q67666
W	615	TRP	GLY	conflict	UNP Q67666
X	615	TRP	GLY	conflict	UNP Q67666
У	615	TRP	GLY	conflict	UNP Q67666
Z	615	TRP	GLY	conflict	UNP Q67666
1	615	TRP	GLY	conflict	UNP Q67666
2	615	TRP	GLY	conflict	UNP Q67666
3	615	TRP	GLY	conflict	UNP Q67666
4	615	TRP	GLY	conflict	UNP Q67666
5	615	TRP	GLY	conflict	UNP Q67666
6	615	TRP	GLY	conflict	UNP Q67666
7	615	TRP	GLY	conflict	UNP Q67666
8	615	TRP	GLY	conflict	UNP Q67666

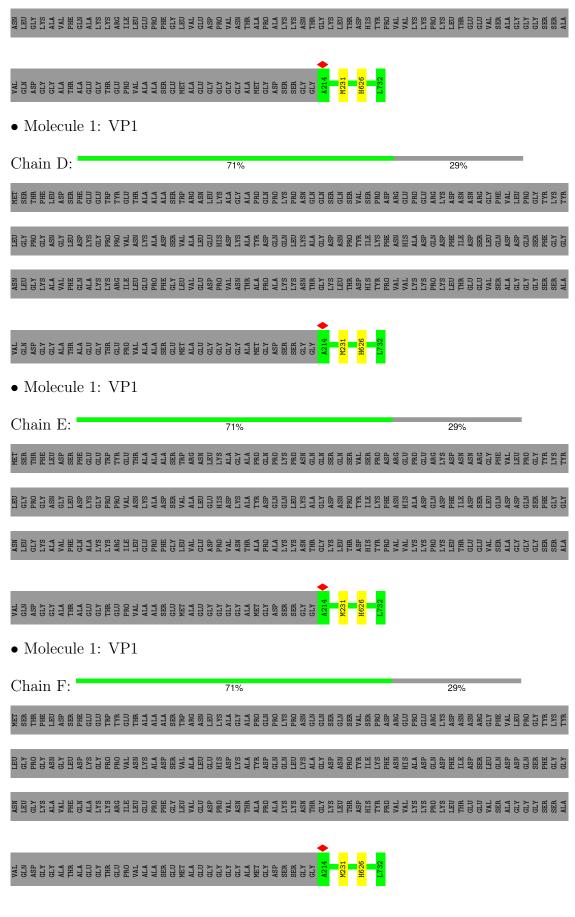


3 Residue-property plots (i)

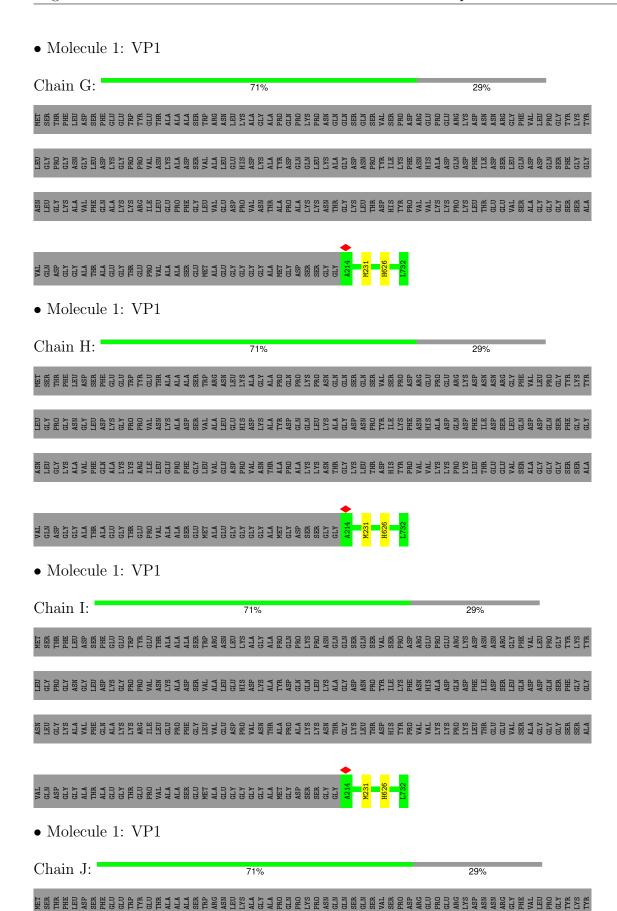
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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



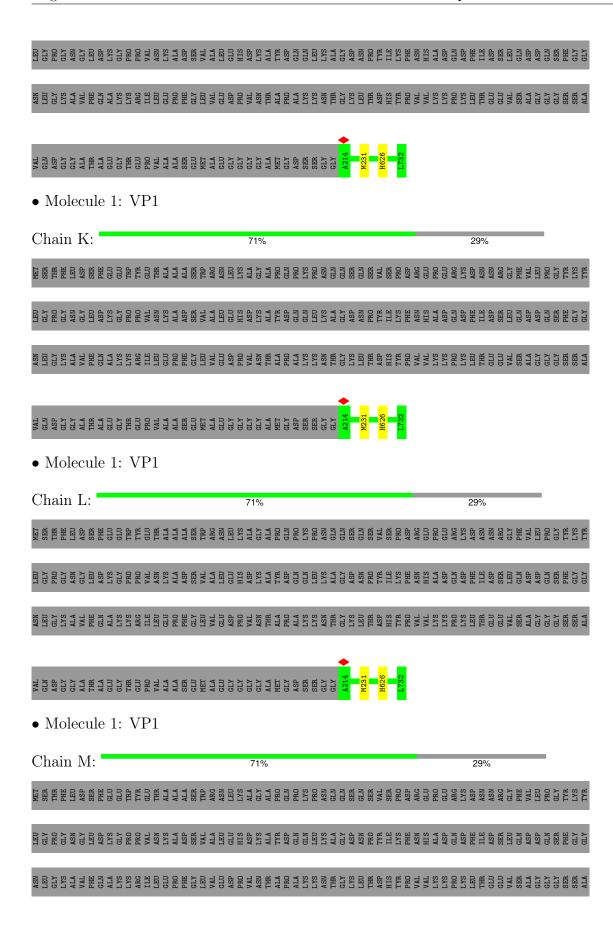




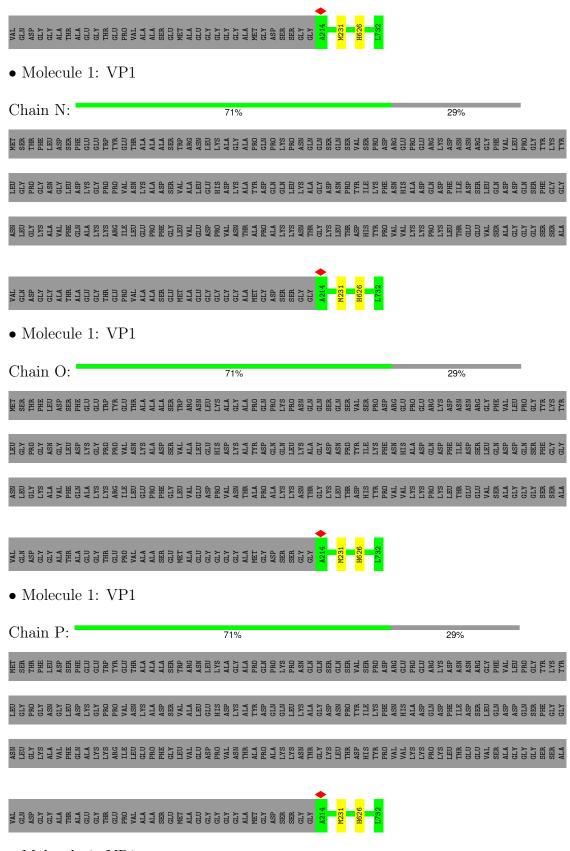




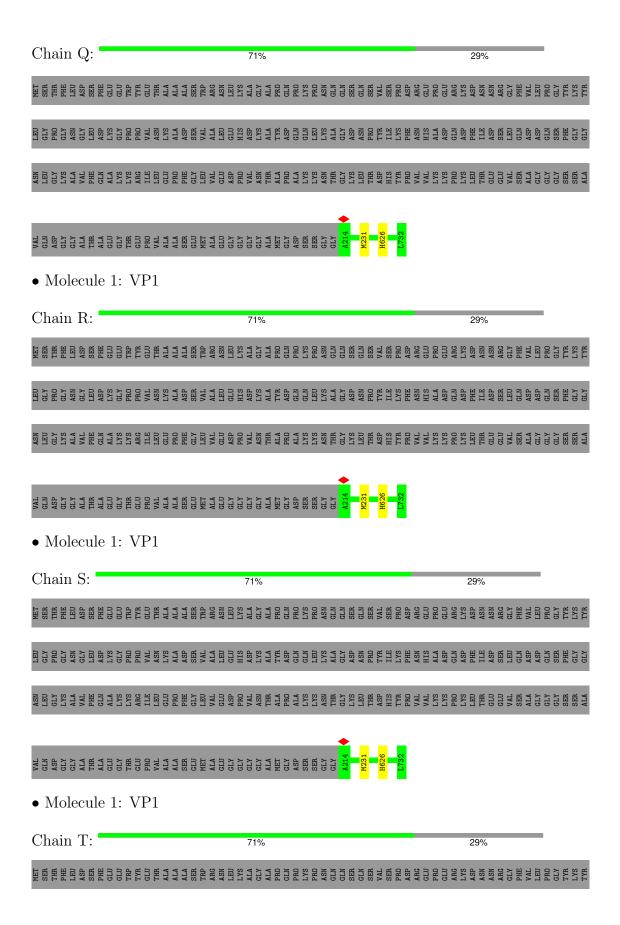




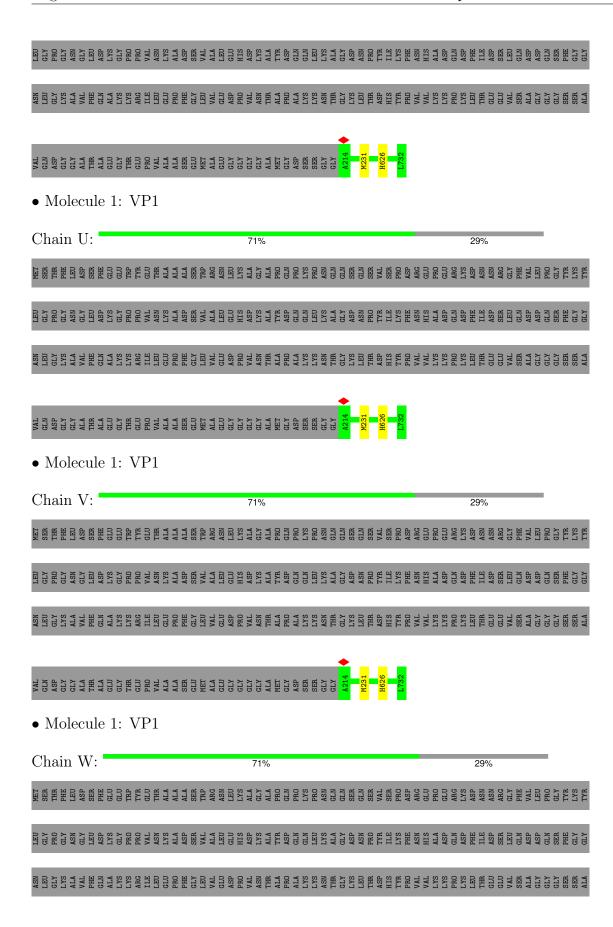




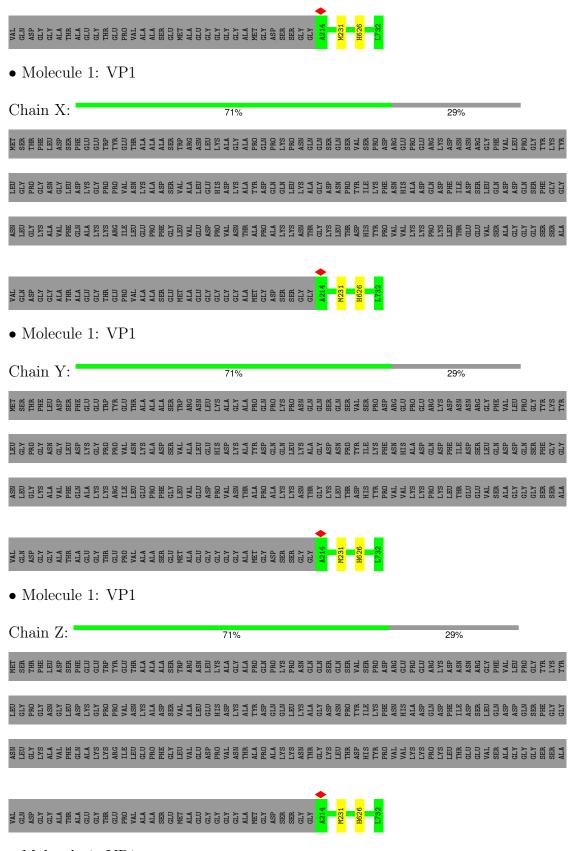




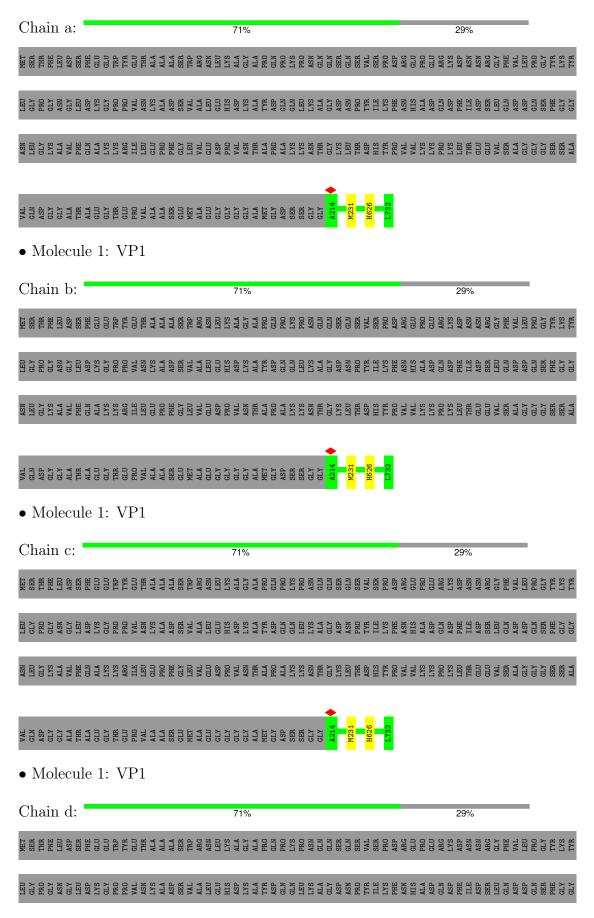




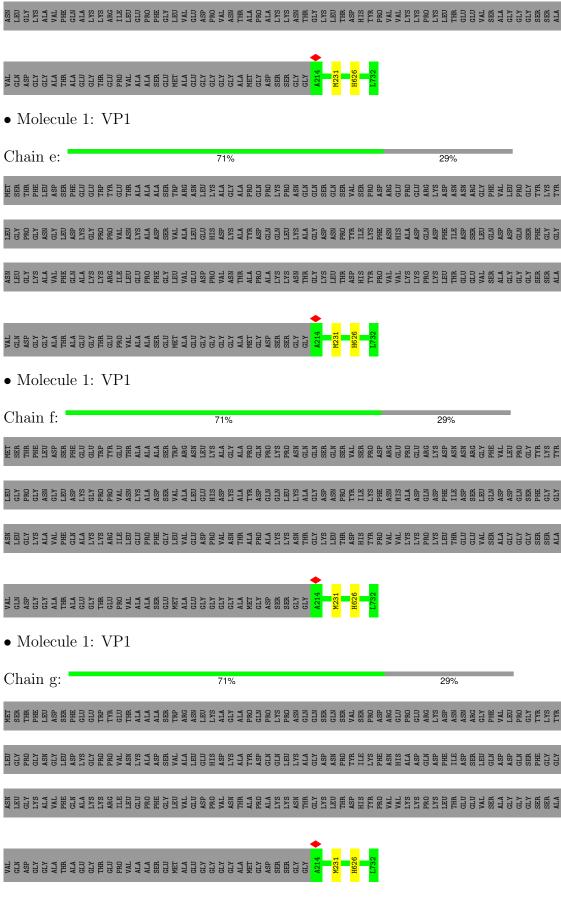




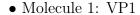


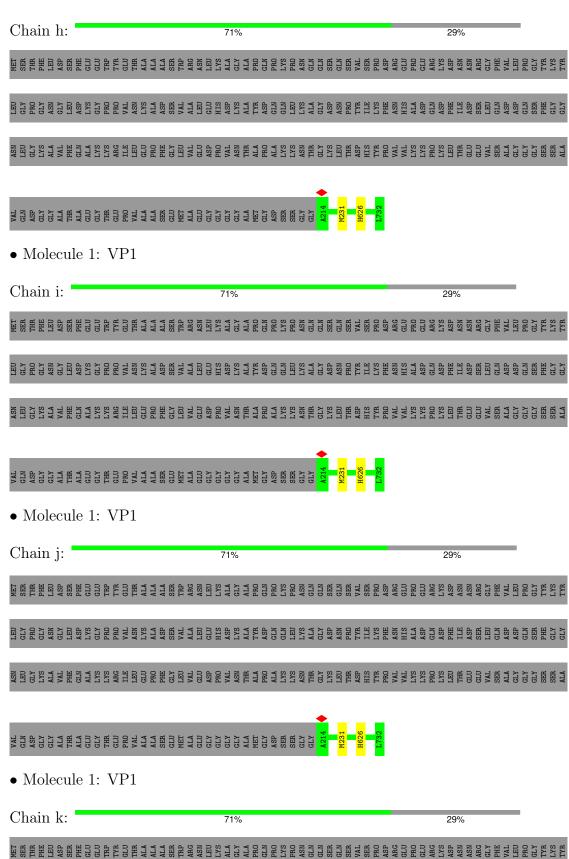




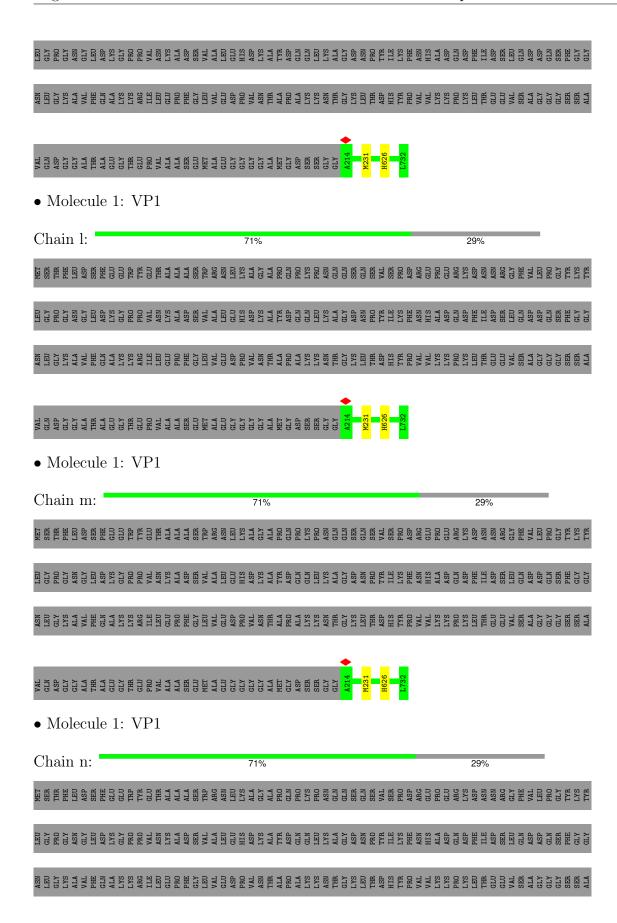




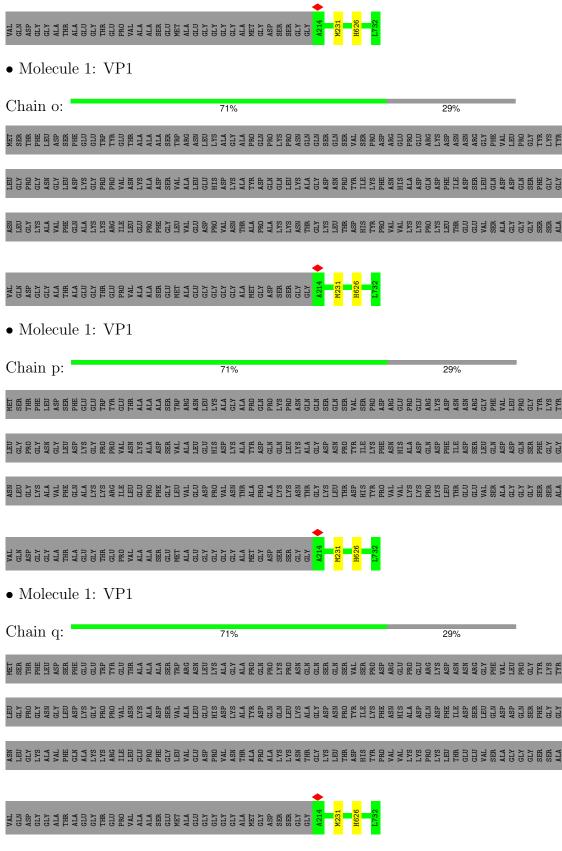




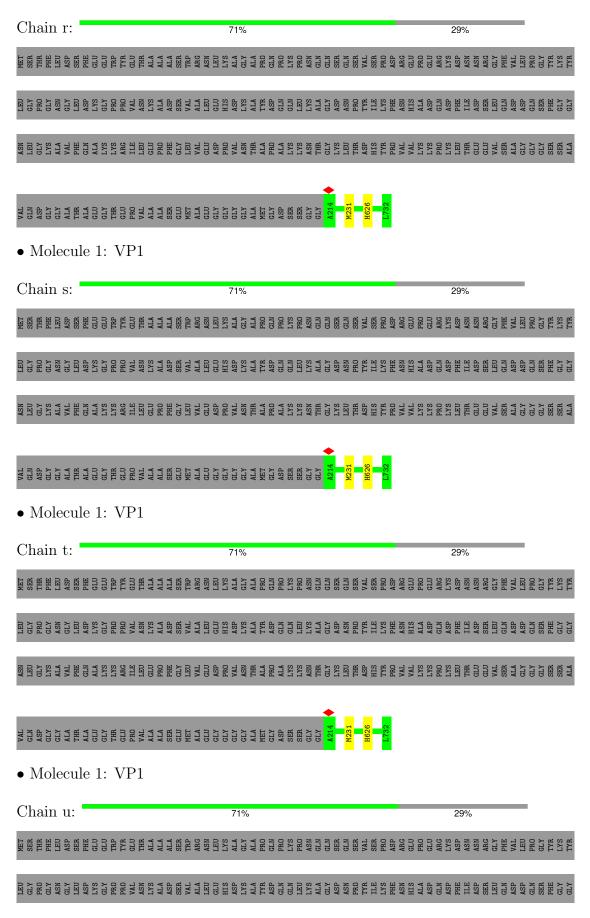




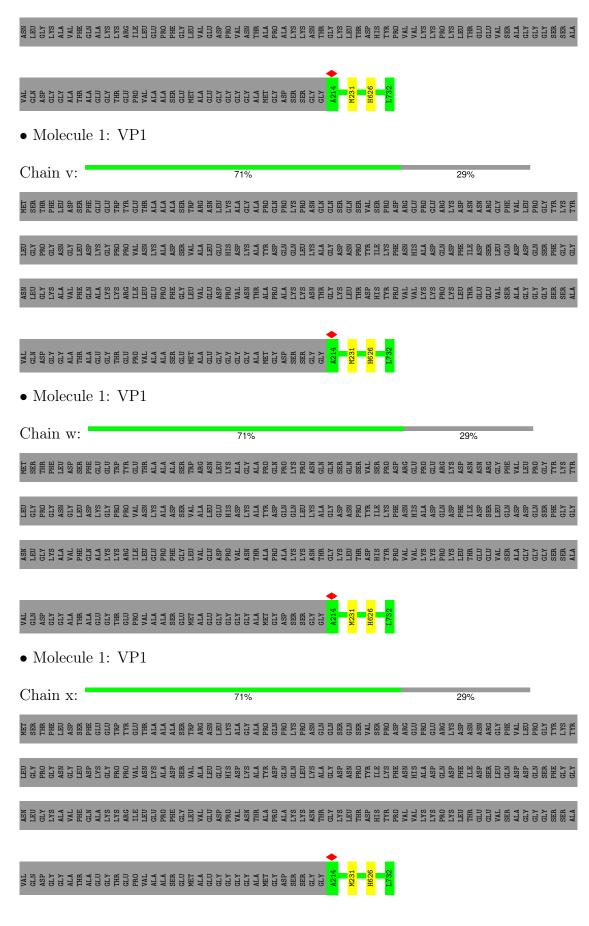






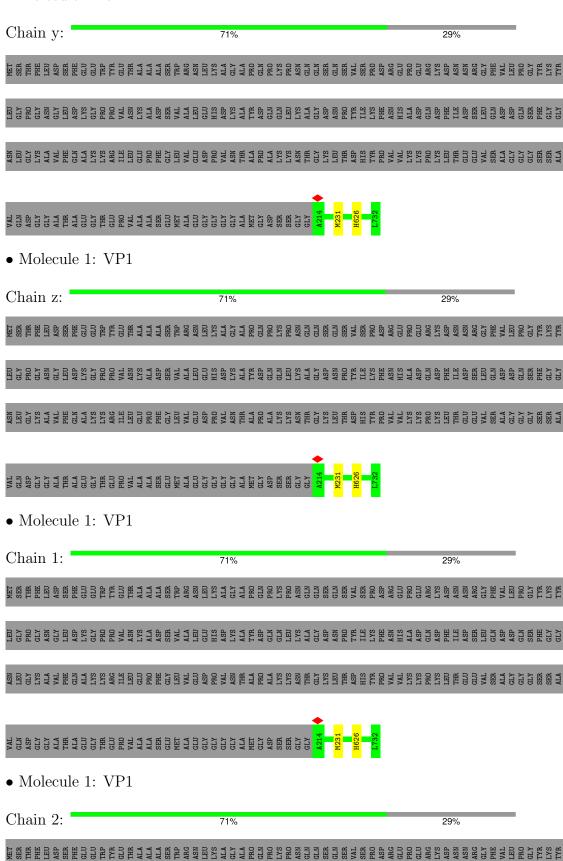




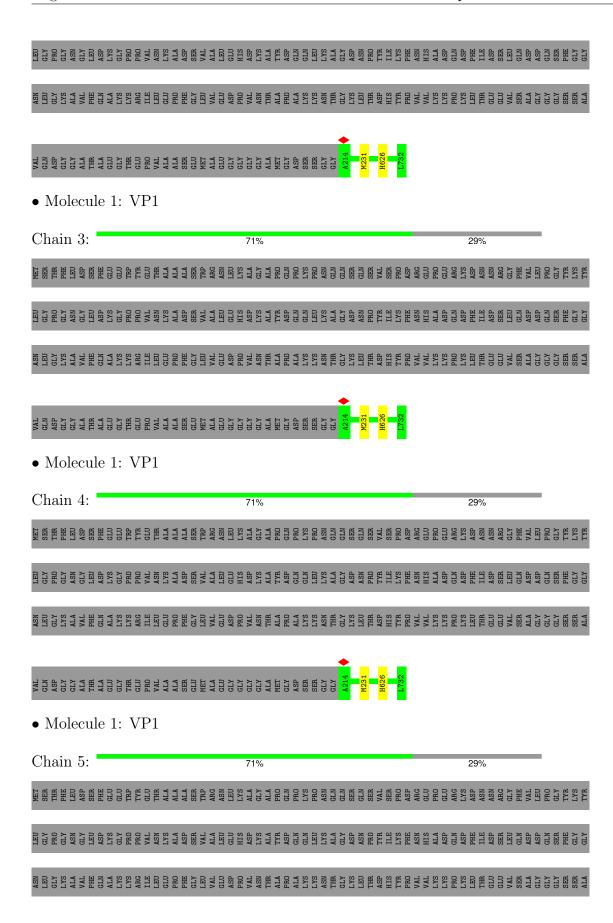




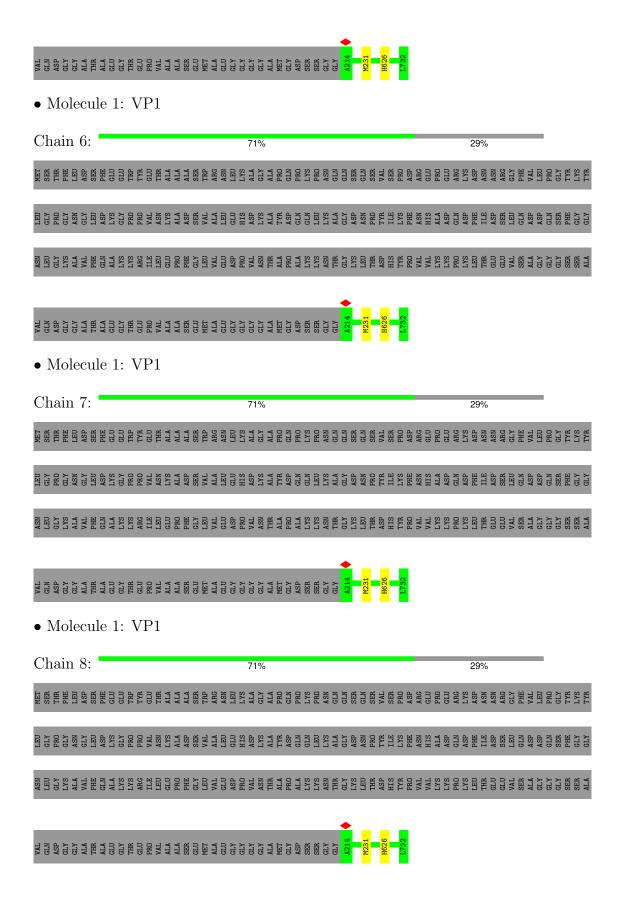














4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	15471	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE	Depositor
	CORRECTION	
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	50	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	4700	Depositor
Magnification	Not provided	
Image detector	FEI FALCON IV (4k x 4k)	Depositor
Maximum map value	16.594	Depositor
Minimum map value	-8.236	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	1.000	Depositor
Recommended contour level	2	Depositor
Map size (Å)	411.0, 411.0, 411.0	wwPDB
Map dimensions	500, 500, 500	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.822, 0.822, 0.822	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).

3.6.1	C1 •	В	ond lengths	Bond	langles
Mol	Chain	RMSZ	# Z > 5	RMSZ	# Z >5
1	1	0.51	1/4294 (0.0%)	0.55	0/5859
1	2	0.51	1/4294 (0.0%)	0.55	0/5859
1	3	0.51	1/4294 (0.0%)	0.55	0/5859
1	4	0.51	1/4294 (0.0%)	0.55	0/5859
1	5	0.51	1/4294 (0.0%)	0.55	0/5859
1	6	0.51	1/4294 (0.0%)	0.55	0/5859
1	7	0.51	1/4294 (0.0%)	0.55	0/5859
1	8	0.51	1/4294 (0.0%)	0.55	0/5859
1	A	0.51	1/4294 (0.0%)	0.55	0/5859
1	В	0.51	1/4294 (0.0%)	0.55	0/5859
1	С	0.51	1/4294 (0.0%)	0.55	0/5859
1	D	0.51	1/4294~(0.0%)	0.55	0/5859
1	Е	0.51	1/4294~(0.0%)	0.55	0/5859
1	F	0.51	1/4294~(0.0%)	0.55	0/5859
1	G	0.51	1/4294~(0.0%)	0.55	0/5859
1	Н	0.51	1/4294~(0.0%)	0.55	0/5859
1	I	0.51	1/4294~(0.0%)	0.55	0/5859
1	J	0.51	1/4294~(0.0%)	0.55	0/5859
1	K	0.51	1/4294~(0.0%)	0.55	0/5859
1	L	0.51	$1/4294 \ (0.0\%)$	0.55	0/5859
1	M	0.51	1/4294~(0.0%)	0.55	0/5859
1	N	0.51	1/4294~(0.0%)	0.55	0/5859
1	О	0.51	1/4294~(0.0%)	0.55	0/5859
1	Р	0.51	1/4294~(0.0%)	0.55	0/5859
1	Q	0.51	1/4294~(0.0%)	0.55	0/5859
1	R	0.51	1/4294~(0.0%)	0.55	0/5859
1	S	0.51	1/4294~(0.0%)	0.55	0/5859
1	Т	0.51	1/4294~(0.0%)	0.55	0/5859
1	U	0.51	1/4294 (0.0%)	0.55	0/5859
1	V	0.51	1/4294 (0.0%)	0.55	0/5859
1	W	0.51	1/4294 (0.0%)	0.55	0/5859
1	X	0.51	1/4294 (0.0%)	0.55	0/5859
1	Y	0.51	1/4294 (0.0%)	0.55	0/5859
1	Z	0.51	1/4294~(0.0%)	0.55	0/5859



Mol	Chain	В	ond lengths	Bond	langles
MIOI	Chain	RMSZ	# Z > 5	RMSZ	# Z >5
1	a	0.51	1/4294 (0.0%)	0.55	0/5859
1	b	0.51	1/4294 (0.0%)	0.55	0/5859
1	С	0.51	1/4294~(0.0%)	0.55	0/5859
1	d	0.51	1/4294~(0.0%)	0.55	0/5859
1	е	0.51	1/4294~(0.0%)	0.55	0/5859
1	f	0.51	1/4294~(0.0%)	0.55	0/5859
1	g	0.51	1/4294 (0.0%)	0.55	0/5859
1	h	0.51	1/4294~(0.0%)	0.55	0/5859
1	i	0.51	1/4294~(0.0%)	0.55	0/5859
1	j	0.51	1/4294~(0.0%)	0.55	0/5859
1	k	0.51	1/4294~(0.0%)	0.55	0/5859
1	1	0.51	1/4294~(0.0%)	0.55	0/5859
1	m	0.51	1/4294~(0.0%)	0.55	0/5859
1	n	0.51	1/4294~(0.0%)	0.55	0/5859
1	О	0.51	1/4294~(0.0%)	0.55	0/5859
1	р	0.51	1/4294~(0.0%)	0.55	0/5859
1	q	0.51	1/4294~(0.0%)	0.55	0/5859
1	r	0.51	1/4294 (0.0%)	0.55	0/5859
1	S	0.51	1/4294 (0.0%)	0.55	0/5859
1	t	0.51	1/4294 (0.0%)	0.55	0/5859
1	u	0.51	1/4294 (0.0%)	0.55	0/5859
1	V	0.51	1/4294~(0.0%)	0.55	0/5859
1	W	0.51	1/4294~(0.0%)	0.55	0/5859
1	X	0.51	1/4294~(0.0%)	0.55	0/5859
1	У	0.51	1/4294 (0.0%)	0.55	0/5859
1	Z	0.51	1/4294~(0.0%)	0.55	0/5859
All	All	0.51	$60/257640 \ (0.0\%)$	0.55	0/351540

All (60) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	Ideal(Å)
1	7	626	HIS	C-N	-5.75	1.23	1.34
1	m	626	HIS	C-N	-5.74	1.23	1.34
1	a	626	HIS	C-N	-5.73	1.23	1.34
1	V	626	HIS	C-N	-5.73	1.23	1.34
1	t	626	HIS	C-N	-5.73	1.23	1.34
1	s	626	HIS	C-N	-5.72	1.23	1.34
1	G	626	HIS	C-N	-5.72	1.23	1.34
1	О	626	HIS	C-N	-5.72	1.23	1.34
1	h	626	HIS	C-N	-5.72	1.23	1.34
1	8	626	HIS	C-N	-5.72	1.23	1.34
1	S	626	HIS	C-N	-5.72	1.23	1.34



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

Mol	Chain	Res	Type	Atoms	Z	$\operatorname{Observed}(\text{\AA})$	Ideal(A)
1	1	626	HIS	C-N	-5.72	1.23	1.34
1	2	626	HIS	C-N	-5.72	1.23	1.34
1	i	626	HIS	C-N	-5.72	1.23	1.34
1	6	626	HIS	C-N	-5.72	1.23	1.34
1	K	626	HIS	C-N	-5.71	1.23	1.34
1	Р	626	HIS	C-N	-5.71	1.23	1.34
1	j	626	HIS	C-N	-5.71	1.23	1.34
1	В	626	HIS	C-N	-5.70	1.23	1.34
1	Z	626	HIS	C-N	-5.70	1.23	1.34
1	О	626	HIS	C-N	-5.70	1.23	1.34
1	W	626	HIS	C-N	-5.70	1.23	1.34
1	${f z}$	626	HIS	C-N	-5.70	1.23	1.34
1	A	626	HIS	C-N	-5.69	1.23	1.34
1	b	626	HIS	C-N	-5.69	1.23	1.34
1	$^{\mathrm{c}}$	626	HIS	C-N	-5.69	1.23	1.34
1	d	626	HIS	C-N	-5.69	1.23	1.34
1	е	626	HIS	C-N	-5.69	1.23	1.34
1	У	626	HIS	C-N	-5.69	1.23	1.34
1	3	626	HIS	C-N	-5.69	1.23	1.34
1	С	626	HIS	C-N	-5.69	1.23	1.34
1	I	626	HIS	C-N	-5.69	1.23	1.34
1	Q	626	HIS	C-N	-5.69	1.23	1.34
1	V	626	HIS	C-N	-5.69	1.23	1.34
1	g	626	HIS	C-N	-5.69	1.23	1.34
1	р	626	HIS	C-N	-5.69	1.23	1.34
1	u	626	HIS	C-N	-5.69	1.23	1.34
1	Т	626	HIS	C-N	-5.68	1.23	1.34
1	X	626	HIS	C-N	-5.68	1.23	1.34
1	4	626	HIS	C-N	-5.68	1.23	1.34
1	Е	626	HIS	C-N	-5.68	1.23	1.34
1	H	626	HIS	C-N	-5.68	1.23	1.34
1	M	626	HIS	C-N	-5.68	1.23	1.34
1	N	626	HIS	C-N	-5.68	1.23	1.34
1	X	626	HIS	C-N	-5.68	1.23	1.34
1	Y	626	HIS	C-N	-5.68	1.23	1.34
1	1	626	HIS	C-N	-5.68	1.23	1.34
1	q	626	HIS	C-N	-5.68	1.23	1.34
1	5	626	HIS	C-N	-5.68	1.23	1.34
1	J	626	HIS	C-N	-5.67	1.23	1.34
1	L	626	HIS	C-N	-5.67	1.23	1.34
1	r	626	HIS	C-N	-5.67	1.23	1.34
1	D	626	HIS	C-N	-5.67	1.23	1.34



Mol	Chain	Res	Type	Atoms	\mathbf{Z}	$\operatorname{Observed}(\text{\AA})$	$\operatorname{Ideal}(ext{\AA})$
1	W	626	HIS	C-N	-5.67	1.23	1.34
1	U	626	HIS	C-N	-5.65	1.23	1.34
1	F	626	HIS	C-N	-5.65	1.23	1.34
1	f	626	HIS	C-N	-5.65	1.23	1.34
1	n	626	HIS	C-N	-5.65	1.23	1.34
1	R	626	HIS	C-N	-5.65	1.23	1.34
1	k	626	HIS	C-N	-5.65	1.23	1.34

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	Percei	ntiles
1	1	517/732~(71%)	504 (98%)	13 (2%)	0	100	100
1	2	517/732~(71%)	504 (98%)	13 (2%)	0	100	100
1	3	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	4	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	5	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	6	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	7	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	8	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	A	517/732 (71%)	504 (98%)	13 (2%)	0	100	100



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	ntiles
1	В	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	С	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	D	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Е	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	F	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	G	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Н	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	I	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	J	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	K	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	L	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	M	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	N	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	О	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Р	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Q	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	R	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	S	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Т	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	U	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	V	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	W	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	X	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Y	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Z	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	a	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	b	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	С	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	d	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	е	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	f	517/732 (71%)	504 (98%)	13 (2%)	0	100	100



Mol	Chain	Analysed	Favoured	Allowed	Outliers	Perce	$_{ m ntiles}$
1	g	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	h	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	i	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	j	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	k	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	1	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	m	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	n	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	О	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	p	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	q	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	r	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	S	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	t	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	u	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	V	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	W	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	X	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	У	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
1	Z	517/732 (71%)	504 (98%)	13 (2%)	0	100	100
All	All	31020/43920 (71%)	30240 (98%)	780 (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	453/618 (73%)	452 (100%)	1 (0%)	92 96



Mol	Chain	Analysed	Rotameric	Outliers	Perce	$\overline{\text{ntiles}}$
1	2	$453/618 \ (73\%)$	452 (100%)	1 (0%)	92	96
1	3	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	4	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	5	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	6	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	7	$453/618 \ (73\%)$	452 (100%)	1 (0%)	92	96
1	8	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	A	$453/618 \ (73\%)$	452 (100%)	1 (0%)	92	96
1	В	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	С	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	D	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	Е	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	F	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	G	$453/618 \ (73\%)$	452 (100%)	1 (0%)	92	96
1	Н	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	I	$453/618 \ (73\%)$	452 (100%)	1 (0%)	92	96
1	J	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	K	$453/618 \ (73\%)$	452 (100%)	1 (0%)	92	96
1	L	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	M	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	N	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	О	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	Р	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	Q	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	R	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	S	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	Т	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	U	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	V	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	W	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	X	453/618 (73%)	452 (100%)	1 (0%)	92	96



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Mol	Chain	Analysed	Rotameric	Outliers	Perce	ntiles
1	Y	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	Z	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	a	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	b	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	С	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	d	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	е	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	f	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	g	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	h	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	i	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	j	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	k	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	1	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	m	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	n	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	О	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	p	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	q	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	r	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	s	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	t	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	u	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	V	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	W	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	X	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	у	453/618 (73%)	452 (100%)	1 (0%)	92	96
1	Z	453/618 (73%)	452 (100%)	1 (0%)	92	96
All	All	27180/37080 (73%)	27120 (100%)	60 (0%)	91	96

All (60) residues with a non-rotameric side chain are listed below:



Mol	Chain	Res	Type
1	A	231	MET
1	В	231	MET
1	С	231	MET
1	D	231	MET
1	Е	231	MET
1	F	231	MET
1	G	231	MET
1	Н	231	MET
1	I	231	MET
1	J	231	MET
1	K	231	MET
1	L	231	MET
1	M	231	MET
1	N	231	MET
1	O P	231	MET
1	Р	231	MET
1	Q	231	MET
1	R	231	MET
1	S T	231	MET
1	Т	231	MET
1	U	231	MET
1	V	231	MET
1	W	231	MET
1	X	231	MET
1	Y	231	MET
1	Z	231	MET
1	a	231	MET
1	b	231	MET
1	С	231	MET
1	d	231	MET
1	е	231	MET
1	f	231	MET
1	g	231	MET
1	h	231	MET
1	i	231	MET
1	j	231	MET
1	k	231	MET
1	1	231	MET
1	m	231	MET
1	n	231	MET
1	О	231	MET
1	р	231	MET
1	q	231	MET



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Mol	Chain	Res	Type
1	r	231	MET
1	s	231	MET
1	t	231	MET
1	u	231	MET
1	V	231	MET
1	W	231	MET
1	X	231	MET
1	у	231	MET
1	Z	231	MET
1	1	231	MET
1	2	231	MET
1	3	231	MET
1	4	231	MET
1	5	231	MET
1	6	231	MET
1	7	231	MET
1	8	231	MET

Sometimes side chains can be flipped to improve hydrogen bonding and reduce clashes. All (705) such side chains are listed below:

Mol	Chain	Res	Type
1	A	284	HIS
1	A	322	GLN
1	A	337	GLN
1	A	400	GLN
1	A	425	HIS
1	A	427	GLN
1	A	479	GLN
1	A	581	GLN
1	A	637	HIS
1	A	642	GLN
1	A	669	GLN
1	A	731	ASN
1	В	284	HIS
1	В	322	GLN
1	В	337	GLN
1	В	425	HIS
1	В	427	GLN
1	В	479	GLN
1	В	581	GLN
1	В	637	HIS
1	В	642	GLN

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Mol	Chain	Res	Type		
1	В	669	GLN		
1	В	731	ASN		
1	С	284	HIS		
1	С	322	GLN		
1	С	337	GLN		
1	С	400	GLN		
1	С	425	HIS		
1	С	427	GLN		
1	С	479	GLN		
1	С	581	GLN		
1	С	637	HIS		
1	С	642	GLN		
1	С	669	GLN		
1	B C C C C C C C C C D	731	ASN		
1	D	284	HIS		
1	D	322	GLN		
1	D	337	GLN		
1	D	400	GLN		
1	D	425	HIS		
1	D	427	GLN		
1	D D D D D	479	GLN		
1	D	581	GLN		
1	D D	637	HIS		
1	D	642	GLN		
1	D	669	GLN		
1	D	731	ASN		
1	Е	284	HIS		
1	Е	322	GLN		
1	Е	337	GLN		
1	Е	400	GLN		
1	Е	425	HIS		
1	Е	427	GLN		
1	Е	479	GLN		
1	Е	581	GLN		
1	Е	637	HIS		
1	Е	642	GLN		
1	Е	669	GLN		
1	Е	731	ASN		
1	F	284	HIS		
1	F	322	GLN		
1	F	337	GLN		
1	F	400	GLN		



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Mol	Chain	Res	Type		
1	F	425	HIS		
1	F	427	GLN		
1	F	479	GLN		
1	F	581	GLN		
1	F	637	HIS		
1	F	642	GLN		
1	F	669	GLN		
1	F	731	ASN		
1	G	284	HIS		
1	G	322	GLN		
1	G	337	GLN		
1	G	400	GLN		
1	G G	425	HIS		
1	G	427	GLN		
1	G	479	GLN		
1	G	581	GLN		
1	G	637	HIS		
1	G	642	GLN		
1	G	669	GLN		
1	G	731	ASN		
1	Н	284	HIS		
1	Н	322	GLN		
1	Н	337	GLN		
1	Н	400	GLN		
1	Н	425	HIS		
1	Н	427	GLN		
1	Н	479	GLN		
1	Н	581	GLN		
1	Н	637	HIS		
1	Н	642	GLN		
1	Н	669	GLN		
1	Н	731	ASN		
1	I	284	HIS		
1	I	322	GLN		
1	I	337	GLN		
1	I	400	GLN		
1	I	425	HIS		
1	I	427	GLN		
1	I	479	GLN		
1	I	581	GLN		
1	I	637	HIS		
1	I	642	GLN		



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	Continued from previous page					
Mol	Chain	Res	Type			
1	I	669	GLN			
1	I	731	ASN			
1	J	284	HIS			
1	J	322	GLN			
1	J	337	GLN			
1	J	425	HIS			
1	J	427	GLN			
1	J	479	GLN			
1	J	581	GLN			
1	J	637	HIS			
1	J	642	GLN			
1	J	669	GLN			
1	J	731	ASN			
1	K	284	HIS			
1	K	322	GLN			
1	K	337	GLN			
1	K	425	HIS			
1	K	427	GLN			
1	K	479	GLN			
1	K	581	GLN			
1	K	637	HIS			
1	K	642	GLN			
1	K	669	GLN			
1	K	731	ASN			
1	L	284	HIS			
1	L	322	GLN			
1	L	337	GLN			
1	L	425	HIS			
1	L	427	GLN			
1	L	479	GLN			
1	L	581	GLN			
1	L	637	HIS			
1	L	642	GLN			
1	L	669	GLN			
1	L	731	ASN			
1	M	284	HIS			
1	M	322	GLN			
1	M	337	GLN			
1	M	425	HIS			
1	M	427	GLN			
1	M	479	GLN			
1	M	581	GLN			



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	Continued from previous page				
Mol	Chain	Res	Type		
1	M	637	HIS		
1	M	642	GLN		
1	M	669	GLN		
1	M	731	ASN		
1	N	284	HIS		
1	N	322	GLN		
1	N	337	GLN		
1	N	400	GLN		
1	N	425	HIS		
1	N	427	GLN		
1	N	479	GLN		
1	N	581	GLN		
1	N	637	HIS		
1	N	642	GLN		
1	N	669	GLN		
1	N	731	ASN		
1	О	284	HIS		
1	О	322	GLN		
1	О	337	GLN		
1	О	400	GLN		
1	O O O	425	HIS		
1	О	427	GLN		
1	О	479	GLN		
1	О	581	GLN		
1	О	637	HIS		
1	О	642	GLN		
1	О	669	GLN		
1	О	731	ASN		
1	Р	284	HIS		
1	Р	322	GLN		
1	Р	337	GLN		
1	P P P	425	HIS		
1	Р	427	\mid GLN \mid		
1	Р	479	GLN		
1	Р	581	GLN		
1	P	637	HIS		
1	P	642	GLN		
1	P	669	GLN		
1	Р	731	ASN		
1	Q	284	HIS		
1	P Q Q Q	322	GLN		
1	Q	337	GLN		



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Conti	Continued from previous page				
Mol	Chain	Res	Type		
1	Q	400	GLN		
1	Q	425	HIS		
1	Q	427	GLN		
1	Q	479	GLN		
1	Q	581	GLN		
1	Q Q Q Q Q Q Q Q	637	HIS		
1	Q	642	GLN		
1	Q	669	GLN		
1	Q	731	ASN		
1		284	HIS		
1	R	322	GLN		
1	R	337	GLN		
1	R	400	GLN		
1	R	425	HIS		
1	R	427	GLN		
1	R	479	GLN		
1	R	581	GLN		
1	R	637	HIS		
1	R	642	GLN		
1	R	669	GLN		
1	R	731	ASN		
1	S	284	HIS		
1	S	322	GLN		
1	S	337	GLN		
1	S	425	HIS		
1	S	427	GLN		
1	S	479	GLN		
1	S	581	GLN		
1	S	637	HIS		
1	S	642	GLN		
1	S	669	GLN		
1	S	731	ASN		
1	Т	284	HIS		
1	Т	322	GLN		
1	T T	337	GLN		
1	T	400	GLN		
1	Τ	425	HIS		
1	Т	427	GLN		
1	Т	479	GLN		
1	Т	581	GLN		
1	Т	637	HIS		
1	Т	642	GLN		

 $\begin{array}{|c|c|c|c|c|c|}\hline T & 642 & GLN \\\hline Continued on next page... \\\hline \end{array}$



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Mol	Chain	Res	Type			
1	Т	669	GLN			
1	Т	731	ASN			
1	U	284	HIS			
1	U	322	GLN			
1	U	337	GLN			
1	U	400	GLN			
1	U	425	HIS			
1	U	427	GLN			
1	U	479	GLN			
1	U	581	GLN			
1	U	637	HIS			
1	U	642	GLN			
1	U	669	GLN			
1	U	731	ASN			
1	V	284	HIS			
1	V	322	GLN			
1	V	337	GLN			
1	V	400	GLN			
1	V	425	HIS			
1	V	427	GLN			
1	V	479	GLN			
1	V	581	GLN			
1	V	637	HIS			
1	V	642	GLN			
1	V	669	GLN			
1	V	731	ASN			
1	W	284	HIS			
1	W	322	GLN			
1	W	337	GLN			
1	W	400	GLN			
1	W	425	HIS			
1	W	427	GLN			
1	W	479	GLN			
1	W	581	GLN			
1	W	637	HIS			
1	W	642	GLN			
1	W	669	GLN			
1	W	731	ASN			
1	X	284	HIS			
1	X	322	GLN			
1	X	337	GLN			
1	X	400	GLN			



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	Continued from previous page				
Mol	Chain	Res	Type		
1	X	425	HIS		
1	X X X X	427	GLN		
1	X	479	GLN		
1	X	581	GLN		
1	X	637	HIS		
1	X	642	GLN		
1	X	669	GLN		
1	X	731	ASN		
1	Y	284	HIS		
1	Y	322	GLN		
1	Y	337	GLN		
1	Y	400	GLN		
1	Y	425	HIS		
1	Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y Y	427	GLN		
1	Y	479	GLN		
1	Y	581	GLN		
1	Y	637	HIS		
1	Y	642	GLN		
1	Y	669	GLN		
1	Y	731	ASN		
1	Y Z	284	HIS		
1	Z	322	GLN		
1	Z	337	GLN		
1	Z	425	HIS		
1	Z	427	GLN		
1	Z	479	GLN		
1	Z	581	GLN		
1	Z	637	HIS		
1	Z	642	GLN		
1	Z	669	GLN		
1	Z	731	ASN		
1	a	284	HIS		
1	a	322	GLN		
1	a	337	GLN		
1	a	400	GLN		
1	a	425	HIS		
1	a	427	GLN		
1	a	479	GLN		
1	a	581	GLN		
1	a	637	HIS		
1	a	642	GLN		
1	a	669	GLN		



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Conti	Continued from previous page				
Mol	Chain	Res	Type		
1	a	731	ASN		
1	b	284	HIS		
1	b	322	GLN		
1	b	337	GLN		
1	b	400	GLN		
1	b	425	HIS		
1	b	427	GLN		
1	b	479	GLN		
1	b	581	GLN		
1	b	637	HIS		
1	b	642	GLN		
1	b	669	GLN		
1	b	731	ASN		
1	c	284	HIS		
1	c	322	GLN		
1	С	337	GLN		
1	c	425	HIS		
1	С	427	GLN		
1	С	479	GLN		
1	С	581	GLN		
1	С	637	HIS		
1	c	642	GLN		
1	c	669	GLN		
1	c	731	ASN		
1	d	284	HIS		
1	d	322	GLN		
1	d	337	GLN		
1	d	400	GLN		
1	d	425	HIS		
1	d	427	GLN		
1	d	479	GLN		
1	d	581	GLN		
1	d	637	HIS		
1	d	642	GLN		
1	d	669	GLN		
1	d	731	ASN		
1	е	284	HIS		
1	е	322	GLN		
1	е	337	GLN		
1	е	400	GLN		
1	е	425	HIS		
1	е	427	GLN		



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Continued from previous page			
Mol	Chain	Res	Type
1	е	479	GLN
1	е	581	GLN
1	е	637	HIS
1	е	642	GLN
1	е	669	GLN
1	е	731	ASN
1	f	284	HIS
1	f	322	GLN
1	f	337	GLN
1	f	400	GLN
1	f	425	HIS
1	f	427	GLN
1	f	479	GLN
1	f	581	GLN
1	f	637	HIS
1	f	642	GLN
1	f	669	GLN
1	f	731	ASN
1	g	284	HIS
1	g	322	GLN
1	g	337	GLN
1	g	400	GLN
1	g	425	HIS
1	g	427	GLN
1	g	479	GLN
1	g	581	GLN
1	g	637	HIS
1	g	642	GLN
1	g	669	GLN
1	g	731	ASN
1	h	284	HIS
1	h	322	GLN
1	h	337	GLN
1	h	425	HIS
1	h	427	GLN
1	h	479	GLN
1	h	581	GLN
1	h	637	HIS
1	h	642	GLN
1	h	669	GLN
1	h	731	ASN
1	i	284	HIS



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Continued from previous page			
Mol	Chain	Res	Type
1	i	322	GLN
1	i	337	GLN
1	i	400	GLN
1	i	425	HIS
1	i	427	GLN
1	i	479	GLN
1	i	581	GLN
1	i	637	HIS
1	i	642	GLN
1	i	669	GLN
1	i	731	ASN
1	j	284	HIS
1	j	322	GLN
1	j j	337	GLN
1	j	400	GLN
1	j j j	425	HIS
1	j	427	GLN
1		479	GLN
1	j	581	GLN
1	j	637	HIS
1	j	642	GLN
1	j	669	GLN
1	j j j j	731	ASN
1	k	284	HIS
1	k	322	GLN
1	k	337	GLN
1	k	400	GLN
1	k	425	HIS
1	k	427	GLN
1	k	479	GLN
1	k	581	GLN
1	k	637	HIS
1	k	642	GLN
1	k	669	GLN
1	k	731	ASN
1	1	284	HIS
1	1	322	GLN
1	1	337	GLN
1	1	400	GLN
1	1	425	HIS
1	1	427	GLN
1	1	479	GLN



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Continued from previous page			
Mol	Chain	Res	Type
1	1	581	GLN
1	1	637	HIS
1	1	642	GLN
1	1	669	GLN
1	1	731	ASN
1	m	284	HIS
1	m	322	GLN
1	m	337	GLN
1	m	400	GLN
1	m	425	HIS
1	m	427	GLN
1	m	479	GLN
1	m	581	GLN
1	m	637	HIS
1	m	642	GLN
1	m	669	GLN
1	m	731	ASN
1	n	284	HIS
1	n	322	GLN
1	n	337	GLN
1	n	400	GLN
1	n	425	HIS
1	n	427	GLN
1	n	479	GLN
1	n	581	GLN
1	n	637	HIS
1	n	642	GLN
1	n	669	GLN
1	n	731	ASN
1	О	284	HIS
1	О	322	GLN
1	О	337	GLN
1	О	400	GLN
1	О	425	HIS
1	О	427	GLN
1	О	479	GLN
1	О	581	GLN
1	О	637	HIS
1	О	642	GLN
1	О	669	GLN
1	О	731	ASN
1	p	284	HIS



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Continued from previous page			
Mol	Chain	Res	Type
1	p	322	GLN
1	p	337	GLN
1	p	400	GLN
1	p	425	HIS
1	p	427	GLN
1	p	479	GLN
1	p	581	GLN
1	p	637	HIS
1	p	642	GLN
1	p	669	GLN
1	p	731	ASN
1	q	284	HIS
1	q	322	GLN
1	q	337	GLN
1	q	400	GLN
1	q	425	HIS
1	q	427	GLN
1	q	479	GLN
1	q	581	GLN
1	q	637	HIS
1	q	642	GLN
1	q	669	GLN
1	q	731	ASN
1	r	284	HIS
1	r	322	GLN
1	r	337	GLN
1	r	425	HIS
1	r	427	GLN
1	r	479	GLN
1	r	581	GLN
1	r	637	HIS
1	r	642	GLN
1	r	669	GLN
1	r	731	ASN
1	s	284	HIS
1	s	322	GLN
1	s	337	GLN
1	s	400	GLN
1	s	425	HIS
1	s	427	GLN
1	s	479	GLN
1	s	581	GLN



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	S	637	HIS	
1	S	642	GLN	
1	s	669	GLN	
1	S	731	ASN	
1	t	284	HIS	
1	t	322	GLN	
1	t	337	GLN	
1	t	400	GLN	
1	t	425	HIS	
1	t	427	GLN	
1	t	479	GLN	
1	t	581	GLN	
1	t	637	HIS	
1	t	642	GLN	
1	t	669	GLN	
1	t	731	ASN	
1	u	284	HIS	
1	u	322	GLN	
1	u	337	GLN	
1	u	400	GLN	
1	u	425	HIS	
1	u	427	GLN	
1	u	479	GLN	
1	u	581	GLN	
1	u	637	HIS	
1	u	642	GLN	
1	u	669	GLN	
1	u	731	ASN	
1	V	284	HIS	
1	V	322	GLN	
1	V	337	GLN	
1	V	400	GLN	
1	V	425	HIS	
1	V	427	GLN	
1	V	479	GLN	
1	V	581	GLN	
1	V	637	HIS	
1	V	642	GLN	
1	V	669	GLN	
1	V	731	ASN	
1	W	284	HIS	
1	W	322	GLN	

W | 322 | GLN | Continued on next page...



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Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	W	337	GLN	
1	W	400	GLN	
1	W	425	HIS	
1	W	427	GLN	
1	W	479	GLN	
1	W	581	GLN	
1	W	637	HIS	
1	W	642	GLN	
1	W	669	GLN	
1	W	731	ASN	
1	X	284	HIS	
1	X	322	GLN	
1	X	337	GLN	
1	X	400	GLN	
1	X	425	HIS	
1	X	427	GLN	
1	X	479	GLN	
1	X	581	GLN	
1	X	637	HIS	
1	X	642	GLN	
1	X	669	GLN	
1	X	731	ASN	
1	у	284	HIS	
1	У	322	GLN	
1	У	337	GLN	
1	У	400	GLN	
1	У	425	HIS	
1	у	427	GLN	
1	У	479	GLN	
1	У	581	GLN	
1	у	637	HIS	
1	у	642	GLN	
1	у	669	GLN	
1	У	731	ASN	
1	Z	284	HIS	
1	Z	322	GLN	
1	Z	337	GLN	
1	Z	425	HIS	
1	Z	427	GLN	
1	Z	479	GLN	
1	Z	581	GLN	
1	Z	637	HIS	



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Mol	Chain	Res	Type	
1	Z	642	GLN	
1	Z	669	GLN	
1	Z	731	ASN	
1	1	284	HIS	
1	1	322	GLN	
1	1	337	GLN	
1	1	425	HIS	
1	1	427	GLN	
1	1	479	GLN	
1	1	581	GLN	
1	1	637	HIS	
1	1	642	GLN	
1	1	669	GLN	
1	1	731	ASN	
1	2	284	HIS	
1	2	322	GLN	
1	2	337	GLN	
1	2	425	HIS	
1	2 2	427	GLN	
1	2	479	GLN	
1	2	581	GLN	
1	2	637	HIS	
1	2 2	642	GLN	
1		669	GLN	
1	2	731	ASN	
1	3	284	HIS	
1	3	322	GLN	
1	3	337	GLN	
1	3	400	GLN	
1	3	425	HIS	
1	3	427	GLN	
1	3	479	GLN	
1	3	581	GLN	
1	3	637	HIS	
1	3	642	GLN	
1	3	669	GLN	
1	3	731	ASN	
1	4	284	HIS	
1	4	322	GLN	
1	4	337	GLN	
1	4	400	GLN	
1	4	425	HIS	



Continued from previous page...

Conti	Continued from previous page			
Mol	Chain	Res	Type	
1	4	427	GLN	
1	4	479	GLN	
1	4	581	GLN	
1	4	637	HIS	
1	4	642	GLN	
1	4	669	GLN	
1	4	731	ASN	
1	5	284	HIS	
1	5	322	GLN	
1	5	337	GLN	
1	5	400	GLN	
1	5	425	HIS	
1	5	427	GLN	
1	5	479	GLN	
1	5	581	GLN	
1	5	637	HIS	
1	5	642	GLN	
1	5	669	GLN	
1	5	731	ASN	
1	6	284	HIS	
1	6	322	GLN	
1	6	337	GLN	
1	6	400	GLN	
1	6	425	HIS	
1	6	427	GLN	
1	6	479	GLN	
1	6	581	GLN	
1	6	637	HIS	
1	6	642	GLN	
1	6	669	GLN	
1	6	731	ASN	
1	7	284	HIS	
1	7	322	GLN	
1	7	337	GLN	
1	7	400	GLN	
1	7	425	HIS	
1	7	427	GLN	
1	7	479	GLN	
1	7	581	GLN	
1	7	637	HIS	
1	7	642	GLN	
1	7	669	GLN	



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Mol	Chain	Res	Type
1	7	731	ASN
1	8	284	HIS
1	8	322	GLN
1	8	337	GLN
1	8	425	HIS
1	8	427	GLN
1	8	479	GLN
1	8	581	GLN
1	8	637	HIS
1	8	642	GLN
1	8	669	GLN
1	8	731	ASN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.



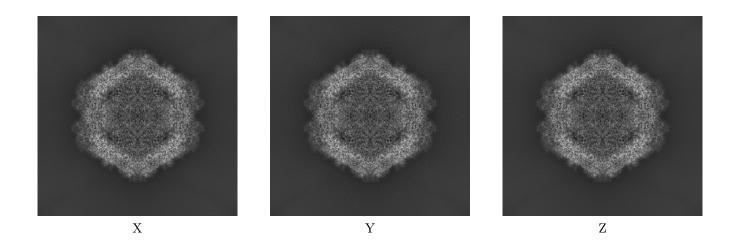
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-48181. These allow visual inspection of the internal detail of the map and identification of artifacts.

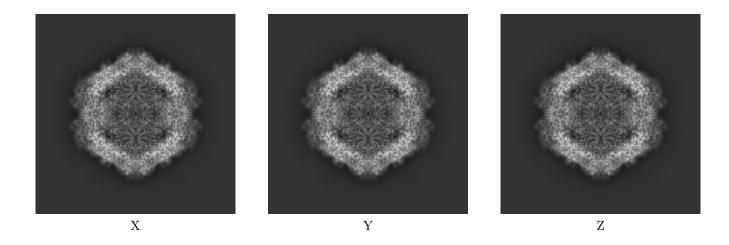
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections (i)

6.1.1 Primary map



6.1.2 Raw map

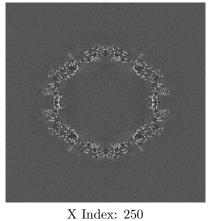


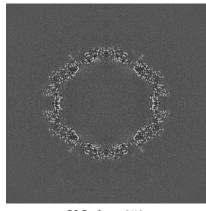
The images above show the map projected in three orthogonal directions.

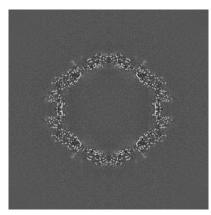


6.2Central slices (i)

6.2.1 Primary map



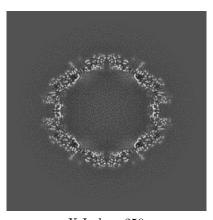


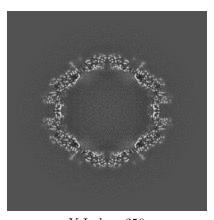


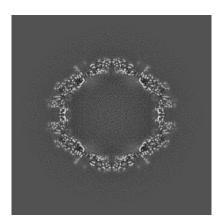
Y Index: 250

Z Index: 250

6.2.2 Raw map







X Index: 250

Y Index: 250

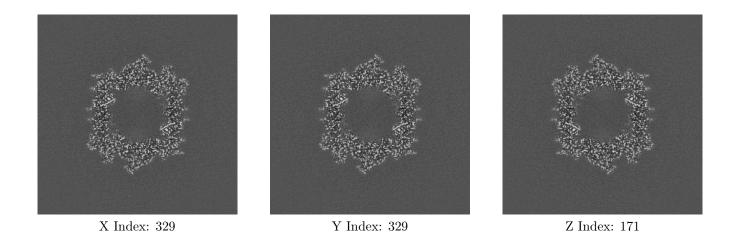
Z Index: 250

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

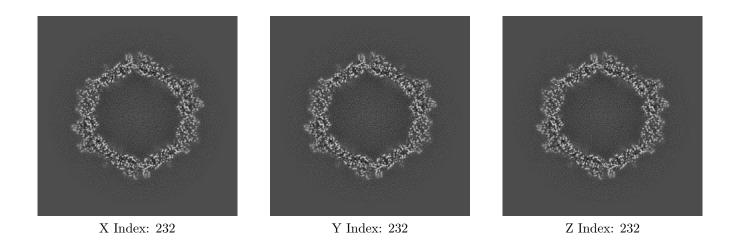


6.3 Largest variance slices (i)

6.3.1 Primary map



6.3.2 Raw map

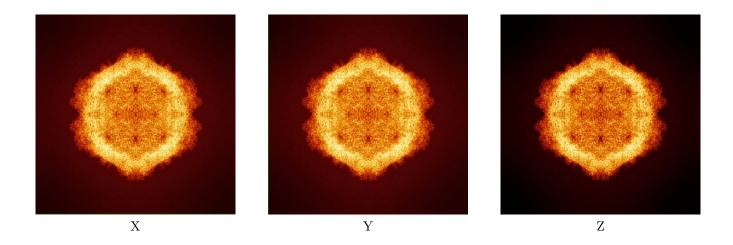


The images above show the largest variance slices of the map in three orthogonal directions.

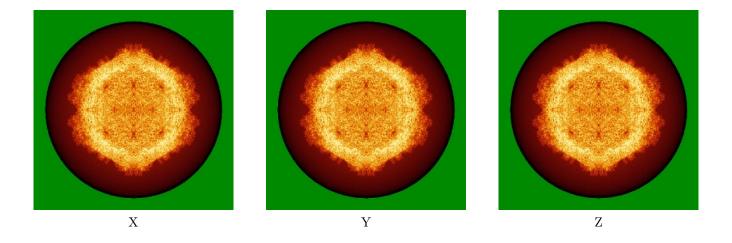


6.4 Orthogonal standard-deviation projections (False-color) (i)

6.4.1 Primary map



6.4.2 Raw map

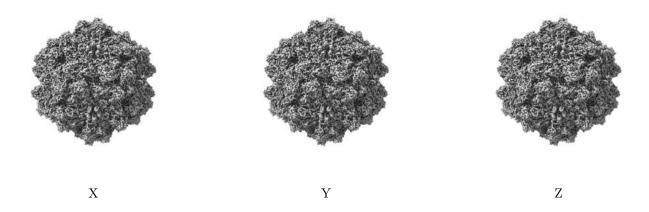


The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.



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)

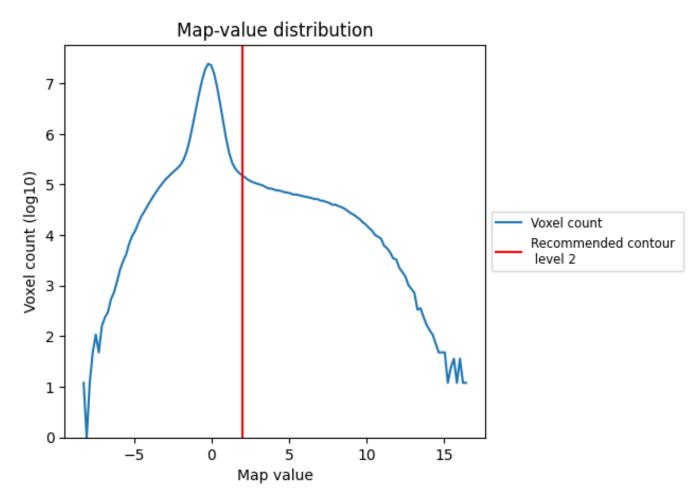
This section was not generated. No masks/segmentation were deposited.



7 Map analysis (i)

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

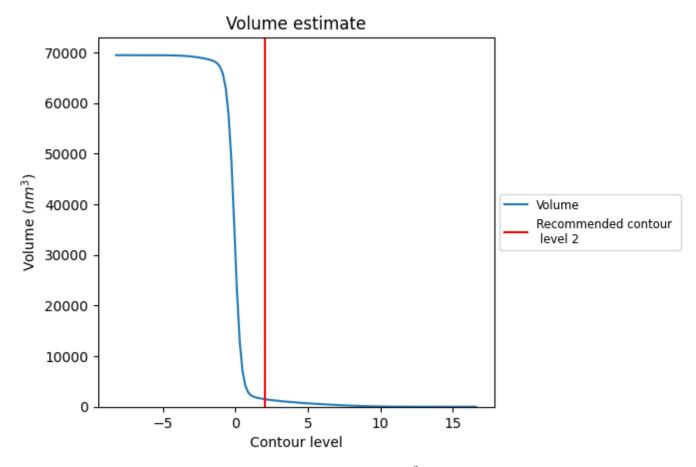
7.1 Map-value distribution (i)



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)

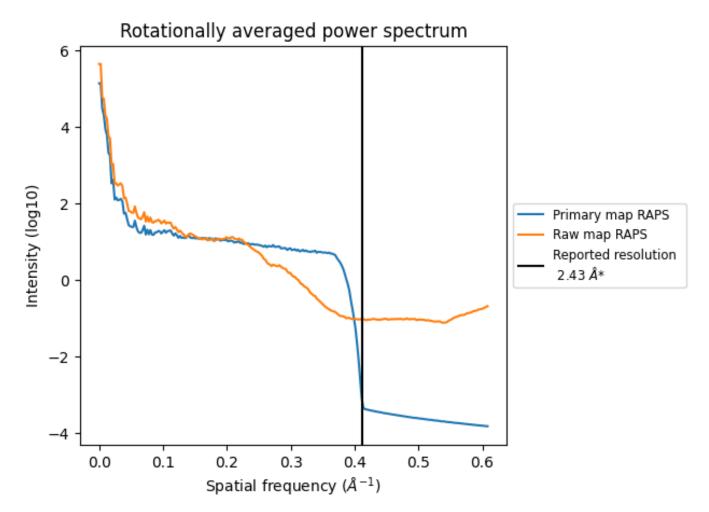


The volume at the recommended contour level is $1512~\mathrm{nm}^3$; this corresponds to an approximate mass of $1366~\mathrm{kDa}$.

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)



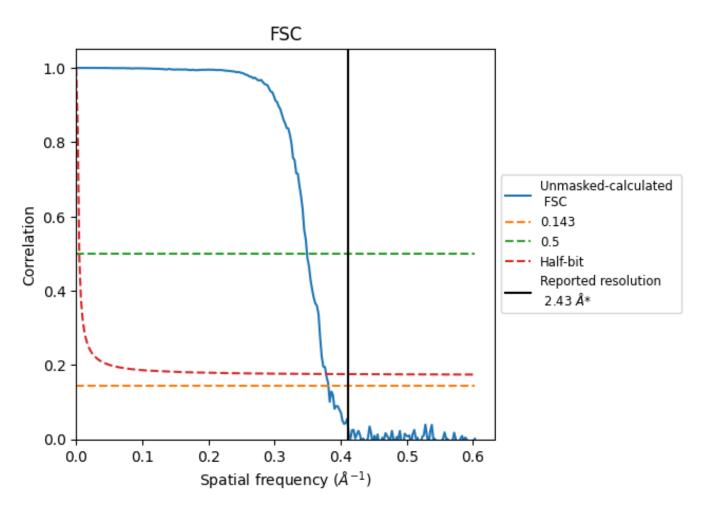
^{*}Reported resolution corresponds to spatial frequency of 0.412 $\rm \AA^{-1}$



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 0.412 $\rm \mathring{A}^{-1}$



8.2 Resolution estimates (i)

Resolution estimate (Å)	Estim	ation	criterion (FSC cut-off)
resolution estimate (A)	0.143	0.5	Half-bit
Reported by author	2.43	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.62	2.86	2.64

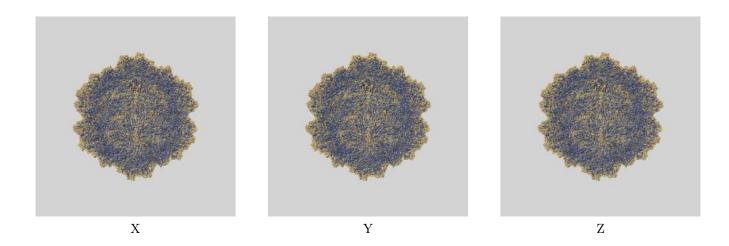
^{*}Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.



9 Map-model fit (i)

This section contains information regarding the fit between EMDB map EMD-48181 and PDB model 9ME0. Per-residue inclusion information can be found in section 3 on page 11.

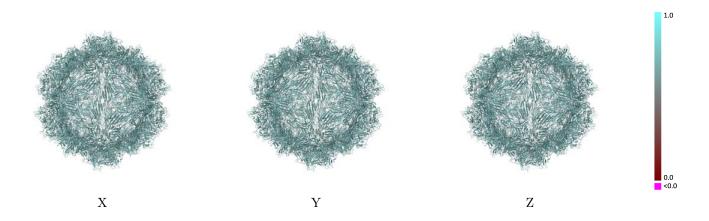
9.1 Map-model overlay (i)



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

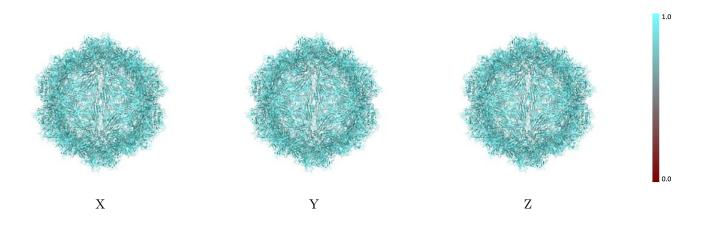


9.2 Q-score mapped to coordinate model (i)



The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

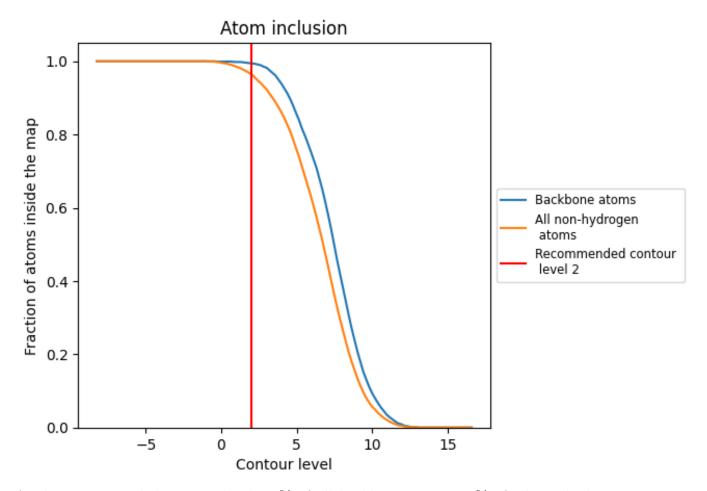
9.3 Atom inclusion mapped to coordinate model (i)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2).



9.4 Atom inclusion (i)



At the recommended contour level, 99% of all backbone atoms, 96% of all non-hydrogen atoms, are inside the map.



9.5 Map-model fit summary (i)

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

Chain	Atom inclusion	Q-score
All	0.9640	0.6730
1	0.9630	0.6730
2	0.9630	0.6730
3	0.9640	0.6730
4	0.9650	0.6730
5	0.9650	0.6740
6	0.9650	0.6740
7	0.9650	0.6730
8	0.9640	0.6730
A	0.9640	0.6740
В	0.9630	0.6730
С	0.9650	0.6730
D	0.9650	0.6730
E	0.9640	0.6730
F	0.9640	0.6730
G	0.9640	0.6730
Н	0.9650	0.6740
I	0.9650	0.6730
J	0.9630	0.6730
K	0.9650	0.6730
L	0.9630	0.6730
M	0.9640	0.6730
N	0.9650	0.6730
О	0.9640	0.6730
Р	0.9650	0.6730
Q	0.9650	0.6730
R	0.9630	0.6730
S	0.9630	0.6730
Т	0.9650	0.6730
U	0.9630	0.6730
V	0.9650	0.6730
W	0.9650	0.6740
X	0.9640	0.6730
Y	0.9650	0.6730
Z	0.9640	0.6740





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Chain	Atom inclusion	Q-score
a	0.9640	0.6730
b	0.9640	0.6740
С	0.9640	0.6740
d	0.9640	0.6730
e	0.9640	0.6730
f	0.9640	0.6740
g	0.9650	0.6730
h	0.9640	0.6730
i	0.9650	0.6740
j	0.9650	0.6730
k	0.9650	0.6730
1	0.9640	0.6730
m	0.9650	0.6730
n	0.9640	0.6740
О	0.9640	0.6730
p	0.9650	0.6730
q	0.9630	0.6730
r	0.9630	0.6730
S	0.9630	0.6730
t	0.9640	0.6730
u	0.9650	0.6720
V	0.9640	0.6730
W	0.9640	0.6730
X	0.9650	0.6730
У	0.9640	0.6730
Z	0.9630	0.6720

