Full wwPDB EM Validation Report ⓘ

Jul 3, 2024 – 05:25 am BST

PDB ID	:	6ZLG
EMDB ID	:	EMD-11265
Title	:	Folding of an iron binding peptide in response to sedimentation is resolved using ferritin as a nano-reactor
Authors	:	Davidov, G.; Abelya, G.; Zalk, R.; Izbicki, B.; Shaibi, S.; Spektor, L.; Meyron Holtz, E.G.; Zarivach, R.; Frank, G.A.
Deposited on	:	2020-06-30
Resolution	:	3.00 Å(reported)

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

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

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

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

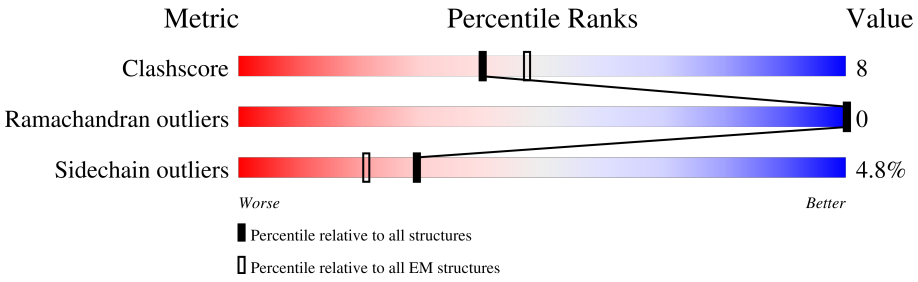
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.00 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
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	A	216	61% 17% 22%
1	B	216	59% 19% 21%
1	C	216	58% 20% 21%
1	D	216	62% 16% 21%
1	E	216	58% 20% 21%
1	F	216	58% 20% 22%
1	I	216	62% 17% 22%
1	J	216	64% 13% 21%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
1	K	216	60% 18% 21%
1	L	216	63% 15% 21%
1	M	216	61% 18% 21%
1	N	216	58% 20% 22%
1	O	216	63% 15% 22%
1	P	216	65% 13% 21%
1	Q	216	62% 15% 21%
1	R	216	62% 17% 21%
1	S	216	61% 17% 21%
1	T	216	62% 16% 22%
1	U	216	62% 16% 22%
1	V	216	59% 19% 21%
1	W	216	61% 17% 21%
1	X	216	61% 17% 21%
1	Y	216	57% 20% 21%
1	Z	216	61% 18% 22%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 33008 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 Ferritin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	B	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	C	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	D	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	E	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	F	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	I	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	J	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	K	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	L	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	M	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	N	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	O	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	P	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	Q	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	R	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	S	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					AltConf	Trace
1	T	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	U	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		
1	V	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	W	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	X	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	Y	170	Total	C	N	O	S	0	0
			1378	865	249	259	5		
1	Z	169	Total	C	N	O	S	0	0
			1370	860	248	258	4		

There are 792 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-19	MET	-	initiating methionine	UNP Q9CPX4
A	-18	GLY	-	expression tag	UNP Q9CPX4
A	-17	SER	-	expression tag	UNP Q9CPX4
A	-16	SER	-	expression tag	UNP Q9CPX4
A	-15	HIS	-	expression tag	UNP Q9CPX4
A	-14	HIS	-	expression tag	UNP Q9CPX4
A	-13	HIS	-	expression tag	UNP Q9CPX4
A	-12	HIS	-	expression tag	UNP Q9CPX4
A	-11	HIS	-	expression tag	UNP Q9CPX4
A	-10	HIS	-	expression tag	UNP Q9CPX4
A	-9	SER	-	expression tag	UNP Q9CPX4
A	-8	SER	-	expression tag	UNP Q9CPX4
A	-7	GLY	-	expression tag	UNP Q9CPX4
A	-6	LEU	-	expression tag	UNP Q9CPX4
A	-5	VAL	-	expression tag	UNP Q9CPX4
A	-4	PRO	-	expression tag	UNP Q9CPX4
A	-3	ARG	-	expression tag	UNP Q9CPX4
A	-2	GLY	-	expression tag	UNP Q9CPX4
A	-1	SER	-	expression tag	UNP Q9CPX4
A	0	HIS	-	expression tag	UNP Q9CPX4
A	184	GLY	-	expression tag	UNP Q9CPX4
A	185	ASP	-	expression tag	UNP Q9CPX4
A	186	ILE	-	expression tag	UNP Q9CPX4
A	187	GLU	-	expression tag	UNP Q9CPX4
A	188	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
A	189	ALA	-	expression tag	UNP Q9CPX4
A	190	GLN	-	expression tag	UNP Q9CPX4
A	191	SER	-	expression tag	UNP Q9CPX4
A	192	ASP	-	expression tag	UNP Q9CPX4
A	193	GLU	-	expression tag	UNP Q9CPX4
A	194	GLU	-	expression tag	UNP Q9CPX4
A	195	VAL	-	expression tag	UNP Q9CPX4
A	196	GLU	-	expression tag	UNP Q9CPX4
B	-19	MET	-	initiating methionine	UNP Q9CPX4
B	-18	GLY	-	expression tag	UNP Q9CPX4
B	-17	SER	-	expression tag	UNP Q9CPX4
B	-16	SER	-	expression tag	UNP Q9CPX4
B	-15	HIS	-	expression tag	UNP Q9CPX4
B	-14	HIS	-	expression tag	UNP Q9CPX4
B	-13	HIS	-	expression tag	UNP Q9CPX4
B	-12	HIS	-	expression tag	UNP Q9CPX4
B	-11	HIS	-	expression tag	UNP Q9CPX4
B	-10	HIS	-	expression tag	UNP Q9CPX4
B	-9	SER	-	expression tag	UNP Q9CPX4
B	-8	SER	-	expression tag	UNP Q9CPX4
B	-7	GLY	-	expression tag	UNP Q9CPX4
B	-6	LEU	-	expression tag	UNP Q9CPX4
B	-5	VAL	-	expression tag	UNP Q9CPX4
B	-4	PRO	-	expression tag	UNP Q9CPX4
B	-3	ARG	-	expression tag	UNP Q9CPX4
B	-2	GLY	-	expression tag	UNP Q9CPX4
B	-1	SER	-	expression tag	UNP Q9CPX4
B	0	HIS	-	expression tag	UNP Q9CPX4
B	184	GLY	-	expression tag	UNP Q9CPX4
B	185	ASP	-	expression tag	UNP Q9CPX4
B	186	ILE	-	expression tag	UNP Q9CPX4
B	187	GLU	-	expression tag	UNP Q9CPX4
B	188	SER	-	expression tag	UNP Q9CPX4
B	189	ALA	-	expression tag	UNP Q9CPX4
B	190	GLN	-	expression tag	UNP Q9CPX4
B	191	SER	-	expression tag	UNP Q9CPX4
B	192	ASP	-	expression tag	UNP Q9CPX4
B	193	GLU	-	expression tag	UNP Q9CPX4
B	194	GLU	-	expression tag	UNP Q9CPX4
B	195	VAL	-	expression tag	UNP Q9CPX4
B	196	GLU	-	expression tag	UNP Q9CPX4
C	-19	MET	-	initiating methionine	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
C	-18	GLY	-	expression tag	UNP Q9CPX4
C	-17	SER	-	expression tag	UNP Q9CPX4
C	-16	SER	-	expression tag	UNP Q9CPX4
C	-15	HIS	-	expression tag	UNP Q9CPX4
C	-14	HIS	-	expression tag	UNP Q9CPX4
C	-13	HIS	-	expression tag	UNP Q9CPX4
C	-12	HIS	-	expression tag	UNP Q9CPX4
C	-11	HIS	-	expression tag	UNP Q9CPX4
C	-10	HIS	-	expression tag	UNP Q9CPX4
C	-9	SER	-	expression tag	UNP Q9CPX4
C	-8	SER	-	expression tag	UNP Q9CPX4
C	-7	GLY	-	expression tag	UNP Q9CPX4
C	-6	LEU	-	expression tag	UNP Q9CPX4
C	-5	VAL	-	expression tag	UNP Q9CPX4
C	-4	PRO	-	expression tag	UNP Q9CPX4
C	-3	ARG	-	expression tag	UNP Q9CPX4
C	-2	GLY	-	expression tag	UNP Q9CPX4
C	-1	SER	-	expression tag	UNP Q9CPX4
C	0	HIS	-	expression tag	UNP Q9CPX4
C	184	GLY	-	expression tag	UNP Q9CPX4
C	185	ASP	-	expression tag	UNP Q9CPX4
C	186	ILE	-	expression tag	UNP Q9CPX4
C	187	GLU	-	expression tag	UNP Q9CPX4
C	188	SER	-	expression tag	UNP Q9CPX4
C	189	ALA	-	expression tag	UNP Q9CPX4
C	190	GLN	-	expression tag	UNP Q9CPX4
C	191	SER	-	expression tag	UNP Q9CPX4
C	192	ASP	-	expression tag	UNP Q9CPX4
C	193	GLU	-	expression tag	UNP Q9CPX4
C	194	GLU	-	expression tag	UNP Q9CPX4
C	195	VAL	-	expression tag	UNP Q9CPX4
C	196	GLU	-	expression tag	UNP Q9CPX4
D	-19	MET	-	initiating methionine	UNP Q9CPX4
D	-18	GLY	-	expression tag	UNP Q9CPX4
D	-17	SER	-	expression tag	UNP Q9CPX4
D	-16	SER	-	expression tag	UNP Q9CPX4
D	-15	HIS	-	expression tag	UNP Q9CPX4
D	-14	HIS	-	expression tag	UNP Q9CPX4
D	-13	HIS	-	expression tag	UNP Q9CPX4
D	-12	HIS	-	expression tag	UNP Q9CPX4
D	-11	HIS	-	expression tag	UNP Q9CPX4
D	-10	HIS	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
D	-9	SER	-	expression tag	UNP Q9CPX4
D	-8	SER	-	expression tag	UNP Q9CPX4
D	-7	GLY	-	expression tag	UNP Q9CPX4
D	-6	LEU	-	expression tag	UNP Q9CPX4
D	-5	VAL	-	expression tag	UNP Q9CPX4
D	-4	PRO	-	expression tag	UNP Q9CPX4
D	-3	ARG	-	expression tag	UNP Q9CPX4
D	-2	GLY	-	expression tag	UNP Q9CPX4
D	-1	SER	-	expression tag	UNP Q9CPX4
D	0	HIS	-	expression tag	UNP Q9CPX4
D	184	GLY	-	expression tag	UNP Q9CPX4
D	185	ASP	-	expression tag	UNP Q9CPX4
D	186	ILE	-	expression tag	UNP Q9CPX4
D	187	GLU	-	expression tag	UNP Q9CPX4
D	188	SER	-	expression tag	UNP Q9CPX4
D	189	ALA	-	expression tag	UNP Q9CPX4
D	190	GLN	-	expression tag	UNP Q9CPX4
D	191	SER	-	expression tag	UNP Q9CPX4
D	192	ASP	-	expression tag	UNP Q9CPX4
D	193	GLU	-	expression tag	UNP Q9CPX4
D	194	GLU	-	expression tag	UNP Q9CPX4
D	195	VAL	-	expression tag	UNP Q9CPX4
D	196	GLU	-	expression tag	UNP Q9CPX4
E	-19	MET	-	initiating methionine	UNP Q9CPX4
E	-18	GLY	-	expression tag	UNP Q9CPX4
E	-17	SER	-	expression tag	UNP Q9CPX4
E	-16	SER	-	expression tag	UNP Q9CPX4
E	-15	HIS	-	expression tag	UNP Q9CPX4
E	-14	HIS	-	expression tag	UNP Q9CPX4
E	-13	HIS	-	expression tag	UNP Q9CPX4
E	-12	HIS	-	expression tag	UNP Q9CPX4
E	-11	HIS	-	expression tag	UNP Q9CPX4
E	-10	HIS	-	expression tag	UNP Q9CPX4
E	-9	SER	-	expression tag	UNP Q9CPX4
E	-8	SER	-	expression tag	UNP Q9CPX4
E	-7	GLY	-	expression tag	UNP Q9CPX4
E	-6	LEU	-	expression tag	UNP Q9CPX4
E	-5	VAL	-	expression tag	UNP Q9CPX4
E	-4	PRO	-	expression tag	UNP Q9CPX4
E	-3	ARG	-	expression tag	UNP Q9CPX4
E	-2	GLY	-	expression tag	UNP Q9CPX4
E	-1	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
E	0	HIS	-	expression tag	UNP Q9CPX4
E	184	GLY	-	expression tag	UNP Q9CPX4
E	185	ASP	-	expression tag	UNP Q9CPX4
E	186	ILE	-	expression tag	UNP Q9CPX4
E	187	GLU	-	expression tag	UNP Q9CPX4
E	188	SER	-	expression tag	UNP Q9CPX4
E	189	ALA	-	expression tag	UNP Q9CPX4
E	190	GLN	-	expression tag	UNP Q9CPX4
E	191	SER	-	expression tag	UNP Q9CPX4
E	192	ASP	-	expression tag	UNP Q9CPX4
E	193	GLU	-	expression tag	UNP Q9CPX4
E	194	GLU	-	expression tag	UNP Q9CPX4
E	195	VAL	-	expression tag	UNP Q9CPX4
E	196	GLU	-	expression tag	UNP Q9CPX4
F	-19	MET	-	initiating methionine	UNP Q9CPX4
F	-18	GLY	-	expression tag	UNP Q9CPX4
F	-17	SER	-	expression tag	UNP Q9CPX4
F	-16	SER	-	expression tag	UNP Q9CPX4
F	-15	HIS	-	expression tag	UNP Q9CPX4
F	-14	HIS	-	expression tag	UNP Q9CPX4
F	-13	HIS	-	expression tag	UNP Q9CPX4
F	-12	HIS	-	expression tag	UNP Q9CPX4
F	-11	HIS	-	expression tag	UNP Q9CPX4
F	-10	HIS	-	expression tag	UNP Q9CPX4
F	-9	SER	-	expression tag	UNP Q9CPX4
F	-8	SER	-	expression tag	UNP Q9CPX4
F	-7	GLY	-	expression tag	UNP Q9CPX4
F	-6	LEU	-	expression tag	UNP Q9CPX4
F	-5	VAL	-	expression tag	UNP Q9CPX4
F	-4	PRO	-	expression tag	UNP Q9CPX4
F	-3	ARG	-	expression tag	UNP Q9CPX4
F	-2	GLY	-	expression tag	UNP Q9CPX4
F	-1	SER	-	expression tag	UNP Q9CPX4
F	0	HIS	-	expression tag	UNP Q9CPX4
F	184	GLY	-	expression tag	UNP Q9CPX4
F	185	ASP	-	expression tag	UNP Q9CPX4
F	186	ILE	-	expression tag	UNP Q9CPX4
F	187	GLU	-	expression tag	UNP Q9CPX4
F	188	SER	-	expression tag	UNP Q9CPX4
F	189	ALA	-	expression tag	UNP Q9CPX4
F	190	GLN	-	expression tag	UNP Q9CPX4
F	191	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
F	192	ASP	-	expression tag	UNP Q9CPX4
F	193	GLU	-	expression tag	UNP Q9CPX4
F	194	GLU	-	expression tag	UNP Q9CPX4
F	195	VAL	-	expression tag	UNP Q9CPX4
F	196	GLU	-	expression tag	UNP Q9CPX4
I	-19	MET	-	initiating methionine	UNP Q9CPX4
I	-18	GLY	-	expression tag	UNP Q9CPX4
I	-17	SER	-	expression tag	UNP Q9CPX4
I	-16	SER	-	expression tag	UNP Q9CPX4
I	-15	HIS	-	expression tag	UNP Q9CPX4
I	-14	HIS	-	expression tag	UNP Q9CPX4
I	-13	HIS	-	expression tag	UNP Q9CPX4
I	-12	HIS	-	expression tag	UNP Q9CPX4
I	-11	HIS	-	expression tag	UNP Q9CPX4
I	-10	HIS	-	expression tag	UNP Q9CPX4
I	-9	SER	-	expression tag	UNP Q9CPX4
I	-8	SER	-	expression tag	UNP Q9CPX4
I	-7	GLY	-	expression tag	UNP Q9CPX4
I	-6	LEU	-	expression tag	UNP Q9CPX4
I	-5	VAL	-	expression tag	UNP Q9CPX4
I	-4	PRO	-	expression tag	UNP Q9CPX4
I	-3	ARG	-	expression tag	UNP Q9CPX4
I	-2	GLY	-	expression tag	UNP Q9CPX4
I	-1	SER	-	expression tag	UNP Q9CPX4
I	0	HIS	-	expression tag	UNP Q9CPX4
I	184	GLY	-	expression tag	UNP Q9CPX4
I	185	ASP	-	expression tag	UNP Q9CPX4
I	186	ILE	-	expression tag	UNP Q9CPX4
I	187	GLU	-	expression tag	UNP Q9CPX4
I	188	SER	-	expression tag	UNP Q9CPX4
I	189	ALA	-	expression tag	UNP Q9CPX4
I	190	GLN	-	expression tag	UNP Q9CPX4
I	191	SER	-	expression tag	UNP Q9CPX4
I	192	ASP	-	expression tag	UNP Q9CPX4
I	193	GLU	-	expression tag	UNP Q9CPX4
I	194	GLU	-	expression tag	UNP Q9CPX4
I	195	VAL	-	expression tag	UNP Q9CPX4
I	196	GLU	-	expression tag	UNP Q9CPX4
J	-19	MET	-	initiating methionine	UNP Q9CPX4
J	-18	GLY	-	expression tag	UNP Q9CPX4
J	-17	SER	-	expression tag	UNP Q9CPX4
J	-16	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
J	-15	HIS	-	expression tag	UNP Q9CPX4
J	-14	HIS	-	expression tag	UNP Q9CPX4
J	-13	HIS	-	expression tag	UNP Q9CPX4
J	-12	HIS	-	expression tag	UNP Q9CPX4
J	-11	HIS	-	expression tag	UNP Q9CPX4
J	-10	HIS	-	expression tag	UNP Q9CPX4
J	-9	SER	-	expression tag	UNP Q9CPX4
J	-8	SER	-	expression tag	UNP Q9CPX4
J	-7	GLY	-	expression tag	UNP Q9CPX4
J	-6	LEU	-	expression tag	UNP Q9CPX4
J	-5	VAL	-	expression tag	UNP Q9CPX4
J	-4	PRO	-	expression tag	UNP Q9CPX4
J	-3	ARG	-	expression tag	UNP Q9CPX4
J	-2	GLY	-	expression tag	UNP Q9CPX4
J	-1	SER	-	expression tag	UNP Q9CPX4
J	0	HIS	-	expression tag	UNP Q9CPX4
J	184	GLY	-	expression tag	UNP Q9CPX4
J	185	ASP	-	expression tag	UNP Q9CPX4
J	186	ILE	-	expression tag	UNP Q9CPX4
J	187	GLU	-	expression tag	UNP Q9CPX4
J	188	SER	-	expression tag	UNP Q9CPX4
J	189	ALA	-	expression tag	UNP Q9CPX4
J	190	GLN	-	expression tag	UNP Q9CPX4
J	191	SER	-	expression tag	UNP Q9CPX4
J	192	ASP	-	expression tag	UNP Q9CPX4
J	193	GLU	-	expression tag	UNP Q9CPX4
J	194	GLU	-	expression tag	UNP Q9CPX4
J	195	VAL	-	expression tag	UNP Q9CPX4
J	196	GLU	-	expression tag	UNP Q9CPX4
K	-19	MET	-	initiating methionine	UNP Q9CPX4
K	-18	GLY	-	expression tag	UNP Q9CPX4
K	-17	SER	-	expression tag	UNP Q9CPX4
K	-16	SER	-	expression tag	UNP Q9CPX4
K	-15	HIS	-	expression tag	UNP Q9CPX4
K	-14	HIS	-	expression tag	UNP Q9CPX4
K	-13	HIS	-	expression tag	UNP Q9CPX4
K	-12	HIS	-	expression tag	UNP Q9CPX4
K	-11	HIS	-	expression tag	UNP Q9CPX4
K	-10	HIS	-	expression tag	UNP Q9CPX4
K	-9	SER	-	expression tag	UNP Q9CPX4
K	-8	SER	-	expression tag	UNP Q9CPX4
K	-7	GLY	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
K	-6	LEU	-	expression tag	UNP Q9CPX4
K	-5	VAL	-	expression tag	UNP Q9CPX4
K	-4	PRO	-	expression tag	UNP Q9CPX4
K	-3	ARG	-	expression tag	UNP Q9CPX4
K	-2	GLY	-	expression tag	UNP Q9CPX4
K	-1	SER	-	expression tag	UNP Q9CPX4
K	0	HIS	-	expression tag	UNP Q9CPX4
K	184	GLY	-	expression tag	UNP Q9CPX4
K	185	ASP	-	expression tag	UNP Q9CPX4
K	186	ILE	-	expression tag	UNP Q9CPX4
K	187	GLU	-	expression tag	UNP Q9CPX4
K	188	SER	-	expression tag	UNP Q9CPX4
K	189	ALA	-	expression tag	UNP Q9CPX4
K	190	GLN	-	expression tag	UNP Q9CPX4
K	191	SER	-	expression tag	UNP Q9CPX4
K	192	ASP	-	expression tag	UNP Q9CPX4
K	193	GLU	-	expression tag	UNP Q9CPX4
K	194	GLU	-	expression tag	UNP Q9CPX4
K	195	VAL	-	expression tag	UNP Q9CPX4
K	196	GLU	-	expression tag	UNP Q9CPX4
L	-19	MET	-	initiating methionine	UNP Q9CPX4
L	-18	GLY	-	expression tag	UNP Q9CPX4
L	-17	SER	-	expression tag	UNP Q9CPX4
L	-16	SER	-	expression tag	UNP Q9CPX4
L	-15	HIS	-	expression tag	UNP Q9CPX4
L	-14	HIS	-	expression tag	UNP Q9CPX4
L	-13	HIS	-	expression tag	UNP Q9CPX4
L	-12	HIS	-	expression tag	UNP Q9CPX4
L	-11	HIS	-	expression tag	UNP Q9CPX4
L	-10	HIS	-	expression tag	UNP Q9CPX4
L	-9	SER	-	expression tag	UNP Q9CPX4
L	-8	SER	-	expression tag	UNP Q9CPX4
L	-7	GLY	-	expression tag	UNP Q9CPX4
L	-6	LEU	-	expression tag	UNP Q9CPX4
L	-5	VAL	-	expression tag	UNP Q9CPX4
L	-4	PRO	-	expression tag	UNP Q9CPX4
L	-3	ARG	-	expression tag	UNP Q9CPX4
L	-2	GLY	-	expression tag	UNP Q9CPX4
L	-1	SER	-	expression tag	UNP Q9CPX4
L	0	HIS	-	expression tag	UNP Q9CPX4
L	184	GLY	-	expression tag	UNP Q9CPX4
L	185	ASP	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
L	186	ILE	-	expression tag	UNP Q9CPX4
L	187	GLU	-	expression tag	UNP Q9CPX4
L	188	SER	-	expression tag	UNP Q9CPX4
L	189	ALA	-	expression tag	UNP Q9CPX4
L	190	GLN	-	expression tag	UNP Q9CPX4
L	191	SER	-	expression tag	UNP Q9CPX4
L	192	ASP	-	expression tag	UNP Q9CPX4
L	193	GLU	-	expression tag	UNP Q9CPX4
L	194	GLU	-	expression tag	UNP Q9CPX4
L	195	VAL	-	expression tag	UNP Q9CPX4
L	196	GLU	-	expression tag	UNP Q9CPX4
M	-19	MET	-	initiating methionine	UNP Q9CPX4
M	-18	GLY	-	expression tag	UNP Q9CPX4
M	-17	SER	-	expression tag	UNP Q9CPX4
M	-16	SER	-	expression tag	UNP Q9CPX4
M	-15	HIS	-	expression tag	UNP Q9CPX4
M	-14	HIS	-	expression tag	UNP Q9CPX4
M	-13	HIS	-	expression tag	UNP Q9CPX4
M	-12	HIS	-	expression tag	UNP Q9CPX4
M	-11	HIS	-	expression tag	UNP Q9CPX4
M	-10	HIS	-	expression tag	UNP Q9CPX4
M	-9	SER	-	expression tag	UNP Q9CPX4
M	-8	SER	-	expression tag	UNP Q9CPX4
M	-7	GLY	-	expression tag	UNP Q9CPX4
M	-6	LEU	-	expression tag	UNP Q9CPX4
M	-5	VAL	-	expression tag	UNP Q9CPX4
M	-4	PRO	-	expression tag	UNP Q9CPX4
M	-3	ARG	-	expression tag	UNP Q9CPX4
M	-2	GLY	-	expression tag	UNP Q9CPX4
M	-1	SER	-	expression tag	UNP Q9CPX4
M	0	HIS	-	expression tag	UNP Q9CPX4
M	184	GLY	-	expression tag	UNP Q9CPX4
M	185	ASP	-	expression tag	UNP Q9CPX4
M	186	ILE	-	expression tag	UNP Q9CPX4
M	187	GLU	-	expression tag	UNP Q9CPX4
M	188	SER	-	expression tag	UNP Q9CPX4
M	189	ALA	-	expression tag	UNP Q9CPX4
M	190	GLN	-	expression tag	UNP Q9CPX4
M	191	SER	-	expression tag	UNP Q9CPX4
M	192	ASP	-	expression tag	UNP Q9CPX4
M	193	GLU	-	expression tag	UNP Q9CPX4
M	194	GLU	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
M	195	VAL	-	expression tag	UNP Q9CPX4
M	196	GLU	-	expression tag	UNP Q9CPX4
N	-19	MET	-	initiating methionine	UNP Q9CPX4
N	-18	GLY	-	expression tag	UNP Q9CPX4
N	-17	SER	-	expression tag	UNP Q9CPX4
N	-16	SER	-	expression tag	UNP Q9CPX4
N	-15	HIS	-	expression tag	UNP Q9CPX4
N	-14	HIS	-	expression tag	UNP Q9CPX4
N	-13	HIS	-	expression tag	UNP Q9CPX4
N	-12	HIS	-	expression tag	UNP Q9CPX4
N	-11	HIS	-	expression tag	UNP Q9CPX4
N	-10	HIS	-	expression tag	UNP Q9CPX4
N	-9	SER	-	expression tag	UNP Q9CPX4
N	-8	SER	-	expression tag	UNP Q9CPX4
N	-7	GLY	-	expression tag	UNP Q9CPX4
N	-6	LEU	-	expression tag	UNP Q9CPX4
N	-5	VAL	-	expression tag	UNP Q9CPX4
N	-4	PRO	-	expression tag	UNP Q9CPX4
N	-3	ARG	-	expression tag	UNP Q9CPX4
N	-2	GLY	-	expression tag	UNP Q9CPX4
N	-1	SER	-	expression tag	UNP Q9CPX4
N	0	HIS	-	expression tag	UNP Q9CPX4
N	184	GLY	-	expression tag	UNP Q9CPX4
N	185	ASP	-	expression tag	UNP Q9CPX4
N	186	ILE	-	expression tag	UNP Q9CPX4
N	187	GLU	-	expression tag	UNP Q9CPX4
N	188	SER	-	expression tag	UNP Q9CPX4
N	189	ALA	-	expression tag	UNP Q9CPX4
N	190	GLN	-	expression tag	UNP Q9CPX4
N	191	SER	-	expression tag	UNP Q9CPX4
N	192	ASP	-	expression tag	UNP Q9CPX4
N	193	GLU	-	expression tag	UNP Q9CPX4
N	194	GLU	-	expression tag	UNP Q9CPX4
N	195	VAL	-	expression tag	UNP Q9CPX4
N	196	GLU	-	expression tag	UNP Q9CPX4
O	-19	MET	-	initiating methionine	UNP Q9CPX4
O	-18	GLY	-	expression tag	UNP Q9CPX4
O	-17	SER	-	expression tag	UNP Q9CPX4
O	-16	SER	-	expression tag	UNP Q9CPX4
O	-15	HIS	-	expression tag	UNP Q9CPX4
O	-14	HIS	-	expression tag	UNP Q9CPX4
O	-13	HIS	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
O	-12	HIS	-	expression tag	UNP Q9CPX4
O	-11	HIS	-	expression tag	UNP Q9CPX4
O	-10	HIS	-	expression tag	UNP Q9CPX4
O	-9	SER	-	expression tag	UNP Q9CPX4
O	-8	SER	-	expression tag	UNP Q9CPX4
O	-7	GLY	-	expression tag	UNP Q9CPX4
O	-6	LEU	-	expression tag	UNP Q9CPX4
O	-5	VAL	-	expression tag	UNP Q9CPX4
O	-4	PRO	-	expression tag	UNP Q9CPX4
O	-3	ARG	-	expression tag	UNP Q9CPX4
O	-2	GLY	-	expression tag	UNP Q9CPX4
O	-1	SER	-	expression tag	UNP Q9CPX4
O	0	HIS	-	expression tag	UNP Q9CPX4
O	184	GLY	-	expression tag	UNP Q9CPX4
O	185	ASP	-	expression tag	UNP Q9CPX4
O	186	ILE	-	expression tag	UNP Q9CPX4
O	187	GLU	-	expression tag	UNP Q9CPX4
O	188	SER	-	expression tag	UNP Q9CPX4
O	189	ALA	-	expression tag	UNP Q9CPX4
O	190	GLN	-	expression tag	UNP Q9CPX4
O	191	SER	-	expression tag	UNP Q9CPX4
O	192	ASP	-	expression tag	UNP Q9CPX4
O	193	GLU	-	expression tag	UNP Q9CPX4
O	194	GLU	-	expression tag	UNP Q9CPX4
O	195	VAL	-	expression tag	UNP Q9CPX4
O	196	GLU	-	expression tag	UNP Q9CPX4
P	-19	MET	-	initiating methionine	UNP Q9CPX4
P	-18	GLY	-	expression tag	UNP Q9CPX4
P	-17	SER	-	expression tag	UNP Q9CPX4
P	-16	SER	-	expression tag	UNP Q9CPX4
P	-15	HIS	-	expression tag	UNP Q9CPX4
P	-14	HIS	-	expression tag	UNP Q9CPX4
P	-13	HIS	-	expression tag	UNP Q9CPX4
P	-12	HIS	-	expression tag	UNP Q9CPX4
P	-11	HIS	-	expression tag	UNP Q9CPX4
P	-10	HIS	-	expression tag	UNP Q9CPX4
P	-9	SER	-	expression tag	UNP Q9CPX4
P	-8	SER	-	expression tag	UNP Q9CPX4
P	-7	GLY	-	expression tag	UNP Q9CPX4
P	-6	LEU	-	expression tag	UNP Q9CPX4
P	-5	VAL	-	expression tag	UNP Q9CPX4
P	-4	PRO	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
P	-3	ARG	-	expression tag	UNP Q9CPX4
P	-2	GLY	-	expression tag	UNP Q9CPX4
P	-1	SER	-	expression tag	UNP Q9CPX4
P	0	HIS	-	expression tag	UNP Q9CPX4
P	184	GLY	-	expression tag	UNP Q9CPX4
P	185	ASP	-	expression tag	UNP Q9CPX4
P	186	ILE	-	expression tag	UNP Q9CPX4
P	187	GLU	-	expression tag	UNP Q9CPX4
P	188	SER	-	expression tag	UNP Q9CPX4
P	189	ALA	-	expression tag	UNP Q9CPX4
P	190	GLN	-	expression tag	UNP Q9CPX4
P	191	SER	-	expression tag	UNP Q9CPX4
P	192	ASP	-	expression tag	UNP Q9CPX4
P	193	GLU	-	expression tag	UNP Q9CPX4
P	194	GLU	-	expression tag	UNP Q9CPX4
P	195	VAL	-	expression tag	UNP Q9CPX4
P	196	GLU	-	expression tag	UNP Q9CPX4
Q	-19	MET	-	initiating methionine	UNP Q9CPX4
Q	-18	GLY	-	expression tag	UNP Q9CPX4
Q	-17	SER	-	expression tag	UNP Q9CPX4
Q	-16	SER	-	expression tag	UNP Q9CPX4
Q	-15	HIS	-	expression tag	UNP Q9CPX4
Q	-14	HIS	-	expression tag	UNP Q9CPX4
Q	-13	HIS	-	expression tag	UNP Q9CPX4
Q	-12	HIS	-	expression tag	UNP Q9CPX4
Q	-11	HIS	-	expression tag	UNP Q9CPX4
Q	-10	HIS	-	expression tag	UNP Q9CPX4
Q	-9	SER	-	expression tag	UNP Q9CPX4
Q	-8	SER	-	expression tag	UNP Q9CPX4
Q	-7	GLY	-	expression tag	UNP Q9CPX4
Q	-6	LEU	-	expression tag	UNP Q9CPX4
Q	-5	VAL	-	expression tag	UNP Q9CPX4
Q	-4	PRO	-	expression tag	UNP Q9CPX4
Q	-3	ARG	-	expression tag	UNP Q9CPX4
Q	-2	GLY	-	expression tag	UNP Q9CPX4
Q	-1	SER	-	expression tag	UNP Q9CPX4
Q	0	HIS	-	expression tag	UNP Q9CPX4
Q	184	GLY	-	expression tag	UNP Q9CPX4
Q	185	ASP	-	expression tag	UNP Q9CPX4
Q	186	ILE	-	expression tag	UNP Q9CPX4
Q	187	GLU	-	expression tag	UNP Q9CPX4
Q	188	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
Q	189	ALA	-	expression tag	UNP Q9CPX4
Q	190	GLN	-	expression tag	UNP Q9CPX4
Q	191	SER	-	expression tag	UNP Q9CPX4
Q	192	ASP	-	expression tag	UNP Q9CPX4
Q	193	GLU	-	expression tag	UNP Q9CPX4
Q	194	GLU	-	expression tag	UNP Q9CPX4
Q	195	VAL	-	expression tag	UNP Q9CPX4
Q	196	GLU	-	expression tag	UNP Q9CPX4
R	-19	MET	-	initiating methionine	UNP Q9CPX4
R	-18	GLY	-	expression tag	UNP Q9CPX4
R	-17	SER	-	expression tag	UNP Q9CPX4
R	-16	SER	-	expression tag	UNP Q9CPX4
R	-15	HIS	-	expression tag	UNP Q9CPX4
R	-14	HIS	-	expression tag	UNP Q9CPX4
R	-13	HIS	-	expression tag	UNP Q9CPX4
R	-12	HIS	-	expression tag	UNP Q9CPX4
R	-11	HIS	-	expression tag	UNP Q9CPX4
R	-10	HIS	-	expression tag	UNP Q9CPX4
R	-9	SER	-	expression tag	UNP Q9CPX4
R	-8	SER	-	expression tag	UNP Q9CPX4
R	-7	GLY	-	expression tag	UNP Q9CPX4
R	-6	LEU	-	expression tag	UNP Q9CPX4
R	-5	VAL	-	expression tag	UNP Q9CPX4
R	-4	PRO	-	expression tag	UNP Q9CPX4
R	-3	ARG	-	expression tag	UNP Q9CPX4
R	-2	GLY	-	expression tag	UNP Q9CPX4
R	-1	SER	-	expression tag	UNP Q9CPX4
R	0	HIS	-	expression tag	UNP Q9CPX4
R	184	GLY	-	expression tag	UNP Q9CPX4
R	185	ASP	-	expression tag	UNP Q9CPX4
R	186	ILE	-	expression tag	UNP Q9CPX4
R	187	GLU	-	expression tag	UNP Q9CPX4
R	188	SER	-	expression tag	UNP Q9CPX4
R	189	ALA	-	expression tag	UNP Q9CPX4
R	190	GLN	-	expression tag	UNP Q9CPX4
R	191	SER	-	expression tag	UNP Q9CPX4
R	192	ASP	-	expression tag	UNP Q9CPX4
R	193	GLU	-	expression tag	UNP Q9CPX4
R	194	GLU	-	expression tag	UNP Q9CPX4
R	195	VAL	-	expression tag	UNP Q9CPX4
R	196	GLU	-	expression tag	UNP Q9CPX4
S	-19	MET	-	initiating methionine	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
S	-18	GLY	-	expression tag	UNP Q9CPX4
S	-17	SER	-	expression tag	UNP Q9CPX4
S	-16	SER	-	expression tag	UNP Q9CPX4
S	-15	HIS	-	expression tag	UNP Q9CPX4
S	-14	HIS	-	expression tag	UNP Q9CPX4
S	-13	HIS	-	expression tag	UNP Q9CPX4
S	-12	HIS	-	expression tag	UNP Q9CPX4
S	-11	HIS	-	expression tag	UNP Q9CPX4
S	-10	HIS	-	expression tag	UNP Q9CPX4
S	-9	SER	-	expression tag	UNP Q9CPX4
S	-8	SER	-	expression tag	UNP Q9CPX4
S	-7	GLY	-	expression tag	UNP Q9CPX4
S	-6	LEU	-	expression tag	UNP Q9CPX4
S	-5	VAL	-	expression tag	UNP Q9CPX4
S	-4	PRO	-	expression tag	UNP Q9CPX4
S	-3	ARG	-	expression tag	UNP Q9CPX4
S	-2	GLY	-	expression tag	UNP Q9CPX4
S	-1	SER	-	expression tag	UNP Q9CPX4
S	0	HIS	-	expression tag	UNP Q9CPX4
S	184	GLY	-	expression tag	UNP Q9CPX4
S	185	ASP	-	expression tag	UNP Q9CPX4
S	186	ILE	-	expression tag	UNP Q9CPX4
S	187	GLU	-	expression tag	UNP Q9CPX4
S	188	SER	-	expression tag	UNP Q9CPX4
S	189	ALA	-	expression tag	UNP Q9CPX4
S	190	GLN	-	expression tag	UNP Q9CPX4
S	191	SER	-	expression tag	UNP Q9CPX4
S	192	ASP	-	expression tag	UNP Q9CPX4
S	193	GLU	-	expression tag	UNP Q9CPX4
S	194	GLU	-	expression tag	UNP Q9CPX4
S	195	VAL	-	expression tag	UNP Q9CPX4
S	196	GLU	-	expression tag	UNP Q9CPX4
T	-19	MET	-	initiating methionine	UNP Q9CPX4
T	-18	GLY	-	expression tag	UNP Q9CPX4
T	-17	SER	-	expression tag	UNP Q9CPX4
T	-16	SER	-	expression tag	UNP Q9CPX4
T	-15	HIS	-	expression tag	UNP Q9CPX4
T	-14	HIS	-	expression tag	UNP Q9CPX4
T	-13	HIS	-	expression tag	UNP Q9CPX4
T	-12	HIS	-	expression tag	UNP Q9CPX4
T	-11	HIS	-	expression tag	UNP Q9CPX4
T	-10	HIS	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
T	-9	SER	-	expression tag	UNP Q9CPX4
T	-8	SER	-	expression tag	UNP Q9CPX4
T	-7	GLY	-	expression tag	UNP Q9CPX4
T	-6	LEU	-	expression tag	UNP Q9CPX4
T	-5	VAL	-	expression tag	UNP Q9CPX4
T	-4	PRO	-	expression tag	UNP Q9CPX4
T	-3	ARG	-	expression tag	UNP Q9CPX4
T	-2	GLY	-	expression tag	UNP Q9CPX4
T	-1	SER	-	expression tag	UNP Q9CPX4
T	0	HIS	-	expression tag	UNP Q9CPX4
T	184	GLY	-	expression tag	UNP Q9CPX4
T	185	ASP	-	expression tag	UNP Q9CPX4
T	186	ILE	-	expression tag	UNP Q9CPX4
T	187	GLU	-	expression tag	UNP Q9CPX4
T	188	SER	-	expression tag	UNP Q9CPX4
T	189	ALA	-	expression tag	UNP Q9CPX4
T	190	GLN	-	expression tag	UNP Q9CPX4
T	191	SER	-	expression tag	UNP Q9CPX4
T	192	ASP	-	expression tag	UNP Q9CPX4
T	193	GLU	-	expression tag	UNP Q9CPX4
T	194	GLU	-	expression tag	UNP Q9CPX4
T	195	VAL	-	expression tag	UNP Q9CPX4
T	196	GLU	-	expression tag	UNP Q9CPX4
U	-19	MET	-	initiating methionine	UNP Q9CPX4
U	-18	GLY	-	expression tag	UNP Q9CPX4
U	-17	SER	-	expression tag	UNP Q9CPX4
U	-16	SER	-	expression tag	UNP Q9CPX4
U	-15	HIS	-	expression tag	UNP Q9CPX4
U	-14	HIS	-	expression tag	UNP Q9CPX4
U	-13	HIS	-	expression tag	UNP Q9CPX4
U	-12	HIS	-	expression tag	UNP Q9CPX4
U	-11	HIS	-	expression tag	UNP Q9CPX4
U	-10	HIS	-	expression tag	UNP Q9CPX4
U	-9	SER	-	expression tag	UNP Q9CPX4
U	-8	SER	-	expression tag	UNP Q9CPX4
U	-7	GLY	-	expression tag	UNP Q9CPX4
U	-6	LEU	-	expression tag	UNP Q9CPX4
U	-5	VAL	-	expression tag	UNP Q9CPX4
U	-4	PRO	-	expression tag	UNP Q9CPX4
U	-3	ARG	-	expression tag	UNP Q9CPX4
U	-2	GLY	-	expression tag	UNP Q9CPX4
U	-1	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
U	0	HIS	-	expression tag	UNP Q9CPX4
U	184	GLY	-	expression tag	UNP Q9CPX4
U	185	ASP	-	expression tag	UNP Q9CPX4
U	186	ILE	-	expression tag	UNP Q9CPX4
U	187	GLU	-	expression tag	UNP Q9CPX4
U	188	SER	-	expression tag	UNP Q9CPX4
U	189	ALA	-	expression tag	UNP Q9CPX4
U	190	GLN	-	expression tag	UNP Q9CPX4
U	191	SER	-	expression tag	UNP Q9CPX4
U	192	ASP	-	expression tag	UNP Q9CPX4
U	193	GLU	-	expression tag	UNP Q9CPX4
U	194	GLU	-	expression tag	UNP Q9CPX4
U	195	VAL	-	expression tag	UNP Q9CPX4
U	196	GLU	-	expression tag	UNP Q9CPX4
V	-19	MET	-	initiating methionine	UNP Q9CPX4
V	-18	GLY	-	expression tag	UNP Q9CPX4
V	-17	SER	-	expression tag	UNP Q9CPX4
V	-16	SER	-	expression tag	UNP Q9CPX4
V	-15	HIS	-	expression tag	UNP Q9CPX4
V	-14	HIS	-	expression tag	UNP Q9CPX4
V	-13	HIS	-	expression tag	UNP Q9CPX4
V	-12	HIS	-	expression tag	UNP Q9CPX4
V	-11	HIS	-	expression tag	UNP Q9CPX4
V	-10	HIS	-	expression tag	UNP Q9CPX4
V	-9	SER	-	expression tag	UNP Q9CPX4
V	-8	SER	-	expression tag	UNP Q9CPX4
V	-7	GLY	-	expression tag	UNP Q9CPX4
V	-6	LEU	-	expression tag	UNP Q9CPX4
V	-5	VAL	-	expression tag	UNP Q9CPX4
V	-4	PRO	-	expression tag	UNP Q9CPX4
V	-3	ARG	-	expression tag	UNP Q9CPX4
V	-2	GLY	-	expression tag	UNP Q9CPX4
V	-1	SER	-	expression tag	UNP Q9CPX4
V	0	HIS	-	expression tag	UNP Q9CPX4
V	184	GLY	-	expression tag	UNP Q9CPX4
V	185	ASP	-	expression tag	UNP Q9CPX4
V	186	ILE	-	expression tag	UNP Q9CPX4
V	187	GLU	-	expression tag	UNP Q9CPX4
V	188	SER	-	expression tag	UNP Q9CPX4
V	189	ALA	-	expression tag	UNP Q9CPX4
V	190	GLN	-	expression tag	UNP Q9CPX4
V	191	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
V	192	ASP	-	expression tag	UNP Q9CPX4
V	193	GLU	-	expression tag	UNP Q9CPX4
V	194	GLU	-	expression tag	UNP Q9CPX4
V	195	VAL	-	expression tag	UNP Q9CPX4
V	196	GLU	-	expression tag	UNP Q9CPX4
W	-19	MET	-	initiating methionine	UNP Q9CPX4
W	-18	GLY	-	expression tag	UNP Q9CPX4
W	-17	SER	-	expression tag	UNP Q9CPX4
W	-16	SER	-	expression tag	UNP Q9CPX4
W	-15	HIS	-	expression tag	UNP Q9CPX4
W	-14	HIS	-	expression tag	UNP Q9CPX4
W	-13	HIS	-	expression tag	UNP Q9CPX4
W	-12	HIS	-	expression tag	UNP Q9CPX4
W	-11	HIS	-	expression tag	UNP Q9CPX4
W	-10	HIS	-	expression tag	UNP Q9CPX4
W	-9	SER	-	expression tag	UNP Q9CPX4
W	-8	SER	-	expression tag	UNP Q9CPX4
W	-7	GLY	-	expression tag	UNP Q9CPX4
W	-6	LEU	-	expression tag	UNP Q9CPX4
W	-5	VAL	-	expression tag	UNP Q9CPX4
W	-4	PRO	-	expression tag	UNP Q9CPX4
W	-3	ARG	-	expression tag	UNP Q9CPX4
W	-2	GLY	-	expression tag	UNP Q9CPX4
W	-1	SER	-	expression tag	UNP Q9CPX4
W	0	HIS	-	expression tag	UNP Q9CPX4
W	184	GLY	-	expression tag	UNP Q9CPX4
W	185	ASP	-	expression tag	UNP Q9CPX4
W	186	ILE	-	expression tag	UNP Q9CPX4
W	187	GLU	-	expression tag	UNP Q9CPX4
W	188	SER	-	expression tag	UNP Q9CPX4
W	189	ALA	-	expression tag	UNP Q9CPX4
W	190	GLN	-	expression tag	UNP Q9CPX4
W	191	SER	-	expression tag	UNP Q9CPX4
W	192	ASP	-	expression tag	UNP Q9CPX4
W	193	GLU	-	expression tag	UNP Q9CPX4
W	194	GLU	-	expression tag	UNP Q9CPX4
W	195	VAL	-	expression tag	UNP Q9CPX4
W	196	GLU	-	expression tag	UNP Q9CPX4
X	-19	MET	-	initiating methionine	UNP Q9CPX4
X	-18	GLY	-	expression tag	UNP Q9CPX4
X	-17	SER	-	expression tag	UNP Q9CPX4
X	-16	SER	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
X	-15	HIS	-	expression tag	UNP Q9CPX4
X	-14	HIS	-	expression tag	UNP Q9CPX4
X	-13	HIS	-	expression tag	UNP Q9CPX4
X	-12	HIS	-	expression tag	UNP Q9CPX4
X	-11	HIS	-	expression tag	UNP Q9CPX4
X	-10	HIS	-	expression tag	UNP Q9CPX4
X	-9	SER	-	expression tag	UNP Q9CPX4
X	-8	SER	-	expression tag	UNP Q9CPX4
X	-7	GLY	-	expression tag	UNP Q9CPX4
X	-6	LEU	-	expression tag	UNP Q9CPX4
X	-5	VAL	-	expression tag	UNP Q9CPX4
X	-4	PRO	-	expression tag	UNP Q9CPX4
X	-3	ARG	-	expression tag	UNP Q9CPX4
X	-2	GLY	-	expression tag	UNP Q9CPX4
X	-1	SER	-	expression tag	UNP Q9CPX4
X	0	HIS	-	expression tag	UNP Q9CPX4
X	184	GLY	-	expression tag	UNP Q9CPX4
X	185	ASP	-	expression tag	UNP Q9CPX4
X	186	ILE	-	expression tag	UNP Q9CPX4
X	187	GLU	-	expression tag	UNP Q9CPX4
X	188	SER	-	expression tag	UNP Q9CPX4
X	189	ALA	-	expression tag	UNP Q9CPX4
X	190	GLN	-	expression tag	UNP Q9CPX4
X	191	SER	-	expression tag	UNP Q9CPX4
X	192	ASP	-	expression tag	UNP Q9CPX4
X	193	GLU	-	expression tag	UNP Q9CPX4
X	194	GLU	-	expression tag	UNP Q9CPX4
X	195	VAL	-	expression tag	UNP Q9CPX4
X	196	GLU	-	expression tag	UNP Q9CPX4
Y	-19	MET	-	initiating methionine	UNP Q9CPX4
Y	-18	GLY	-	expression tag	UNP Q9CPX4
Y	-17	SER	-	expression tag	UNP Q9CPX4
Y	-16	SER	-	expression tag	UNP Q9CPX4
Y	-15	HIS	-	expression tag	UNP Q9CPX4
Y	-14	HIS	-	expression tag	UNP Q9CPX4
Y	-13	HIS	-	expression tag	UNP Q9CPX4
Y	-12	HIS	-	expression tag	UNP Q9CPX4
Y	-11	HIS	-	expression tag	UNP Q9CPX4
Y	-10	HIS	-	expression tag	UNP Q9CPX4
Y	-9	SER	-	expression tag	UNP Q9CPX4
Y	-8	SER	-	expression tag	UNP Q9CPX4
Y	-7	GLY	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

Chain	Residue	Modelled	Actual	Comment	Reference
Y	-6	LEU	-	expression tag	UNP Q9CPX4
Y	-5	VAL	-	expression tag	UNP Q9CPX4
Y	-4	PRO	-	expression tag	UNP Q9CPX4
Y	-3	ARG	-	expression tag	UNP Q9CPX4
Y	-2	GLY	-	expression tag	UNP Q9CPX4
Y	-1	SER	-	expression tag	UNP Q9CPX4
Y	0	HIS	-	expression tag	UNP Q9CPX4
Y	184	GLY	-	expression tag	UNP Q9CPX4
Y	185	ASP	-	expression tag	UNP Q9CPX4
Y	186	ILE	-	expression tag	UNP Q9CPX4
Y	187	GLU	-	expression tag	UNP Q9CPX4
Y	188	SER	-	expression tag	UNP Q9CPX4
Y	189	ALA	-	expression tag	UNP Q9CPX4
Y	190	GLN	-	expression tag	UNP Q9CPX4
Y	191	SER	-	expression tag	UNP Q9CPX4
Y	192	ASP	-	expression tag	UNP Q9CPX4
Y	193	GLU	-	expression tag	UNP Q9CPX4
Y	194	GLU	-	expression tag	UNP Q9CPX4
Y	195	VAL	-	expression tag	UNP Q9CPX4
Y	196	GLU	-	expression tag	UNP Q9CPX4
Z	-19	MET	-	initiating methionine	UNP Q9CPX4
Z	-18	GLY	-	expression tag	UNP Q9CPX4
Z	-17	SER	-	expression tag	UNP Q9CPX4
Z	-16	SER	-	expression tag	UNP Q9CPX4
Z	-15	HIS	-	expression tag	UNP Q9CPX4
Z	-14	HIS	-	expression tag	UNP Q9CPX4
Z	-13	HIS	-	expression tag	UNP Q9CPX4
Z	-12	HIS	-	expression tag	UNP Q9CPX4
Z	-11	HIS	-	expression tag	UNP Q9CPX4
Z	-10	HIS	-	expression tag	UNP Q9CPX4
Z	-9	SER	-	expression tag	UNP Q9CPX4
Z	-8	SER	-	expression tag	UNP Q9CPX4
Z	-7	GLY	-	expression tag	UNP Q9CPX4
Z	-6	LEU	-	expression tag	UNP Q9CPX4
Z	-5	VAL	-	expression tag	UNP Q9CPX4
Z	-4	PRO	-	expression tag	UNP Q9CPX4
Z	-3	ARG	-	expression tag	UNP Q9CPX4
Z	-2	GLY	-	expression tag	UNP Q9CPX4
Z	-1	SER	-	expression tag	UNP Q9CPX4
Z	0	HIS	-	expression tag	UNP Q9CPX4
Z	184	GLY	-	expression tag	UNP Q9CPX4
Z	185	ASP	-	expression tag	UNP Q9CPX4

Continued on next page...

Continued from previous page...

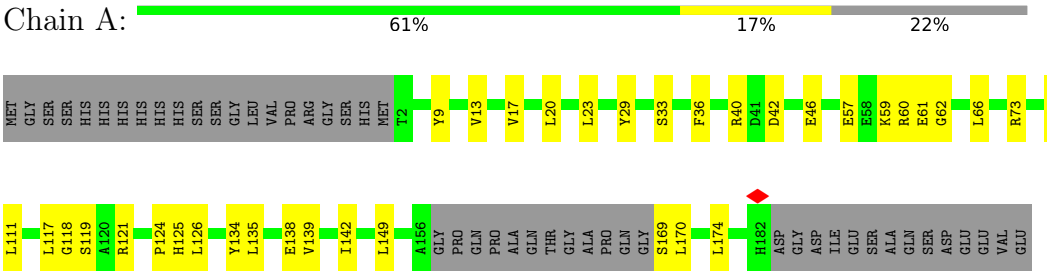
Chain	Residue	Modelled	Actual	Comment	Reference
Z	186	ILE	-	expression tag	UNP Q9CPX4
Z	187	GLU	-	expression tag	UNP Q9CPX4
Z	188	SER	-	expression tag	UNP Q9CPX4
Z	189	ALA	-	expression tag	UNP Q9CPX4
Z	190	GLN	-	expression tag	UNP Q9CPX4
Z	191	SER	-	expression tag	UNP Q9CPX4
Z	192	ASP	-	expression tag	UNP Q9CPX4
Z	193	GLU	-	expression tag	UNP Q9CPX4
Z	194	GLU	-	expression tag	UNP Q9CPX4
Z	195	VAL	-	expression tag	UNP Q9CPX4
Z	196	GLU	-	expression tag	UNP Q9CPX4

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.

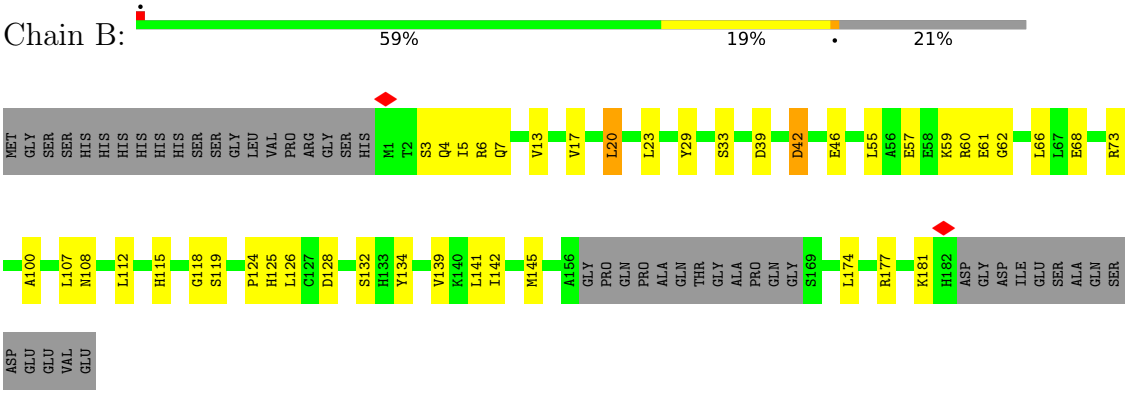
• Molecule 1: Ferritin

Chain A:



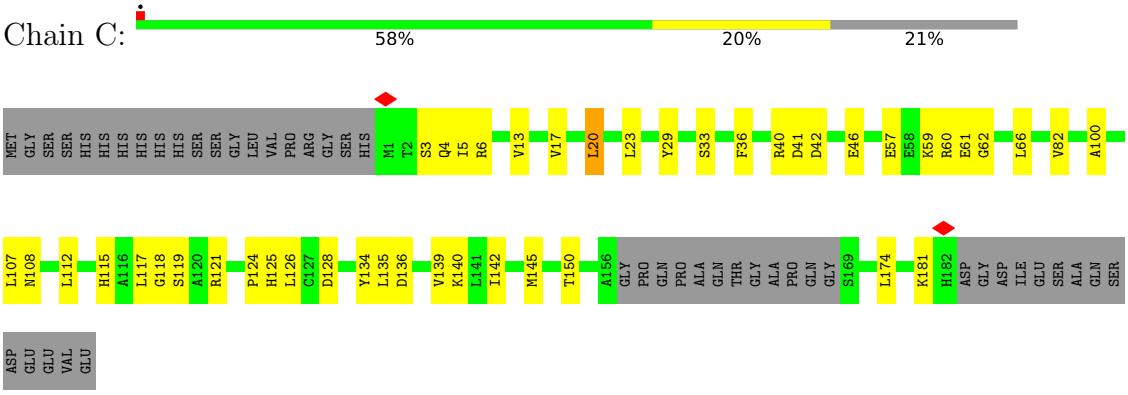
• Molecule 1: Ferritin

Chain B:



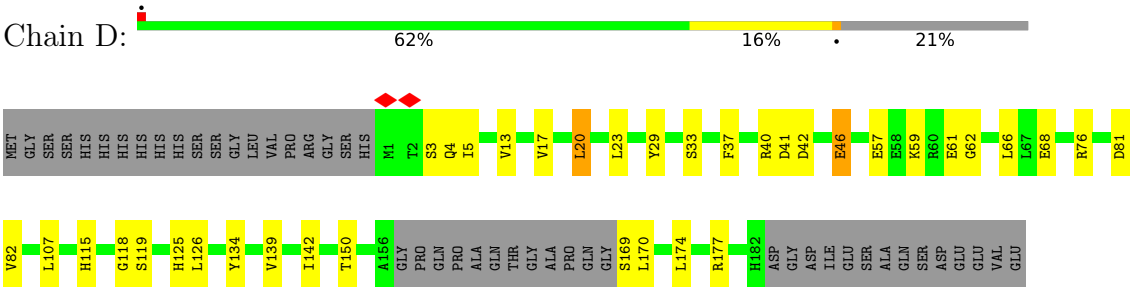
• Molecule 1: Ferritin

Chain C:



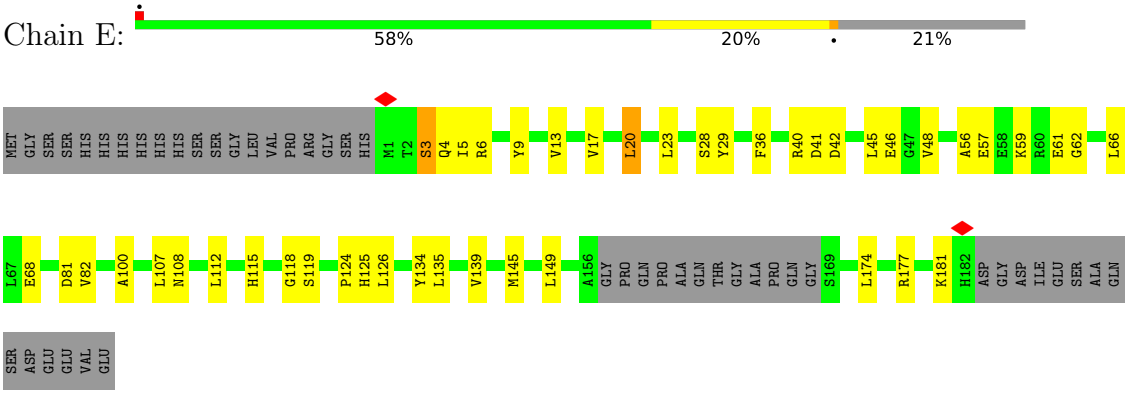
• Molecule 1: Ferritin

Chain D:



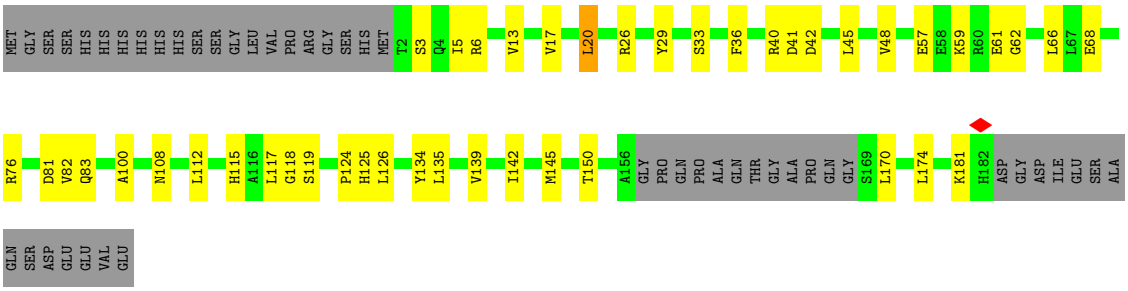
• Molecule 1: Ferritin

Chain E:



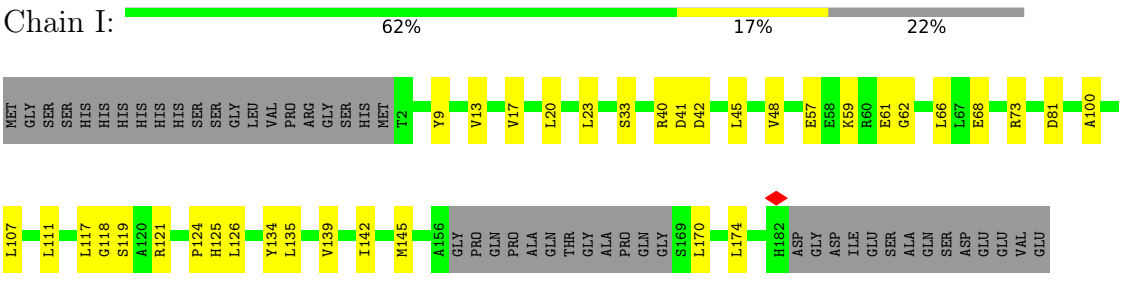
• Molecule 1: Ferritin

Chain F:



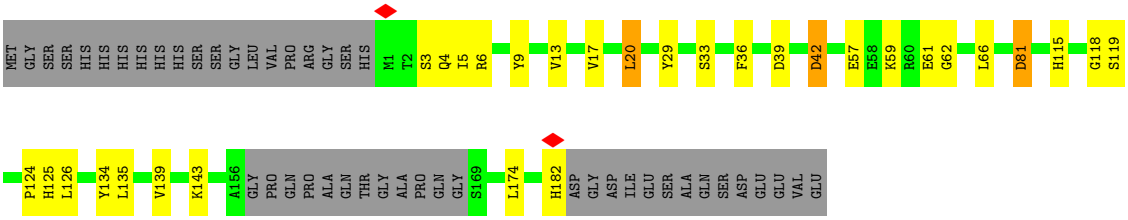
• Molecule 1: Ferritin

Chain I:



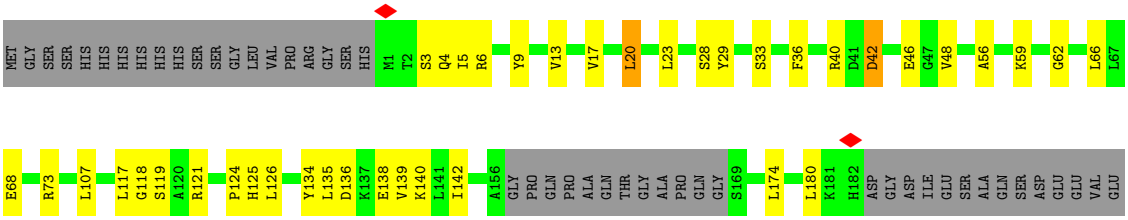
• Molecule 1: Ferritin

Chain J:



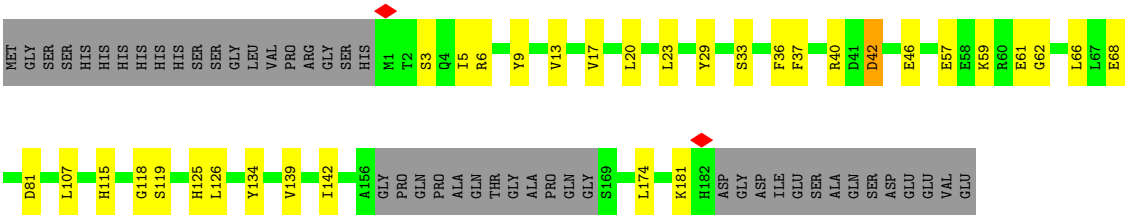
• Molecule 1: Ferritin

Chain K:



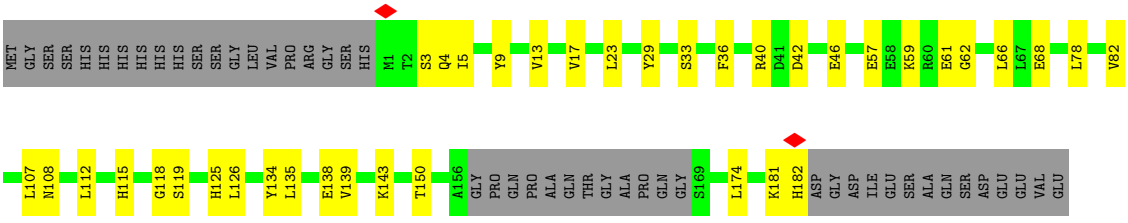
• Molecule 1: Ferritin

Chain L:



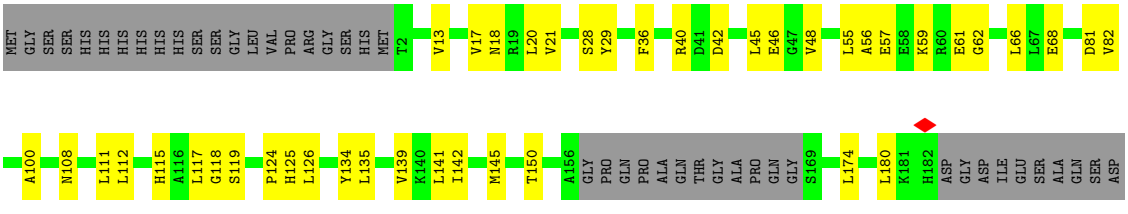
• Molecule 1: Ferritin

Chain M:



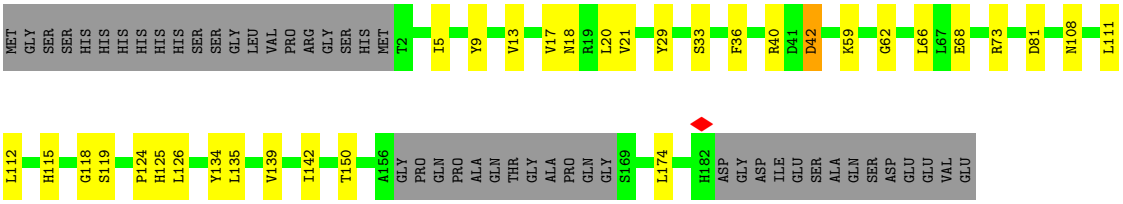
• Molecule 1: Ferritin

Chain N:



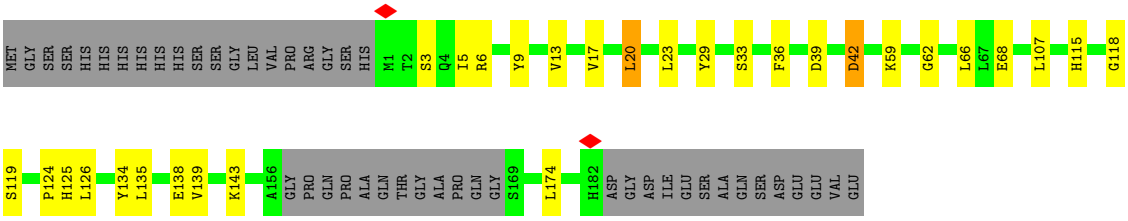
• Molecule 1: Ferritin

Chain O:



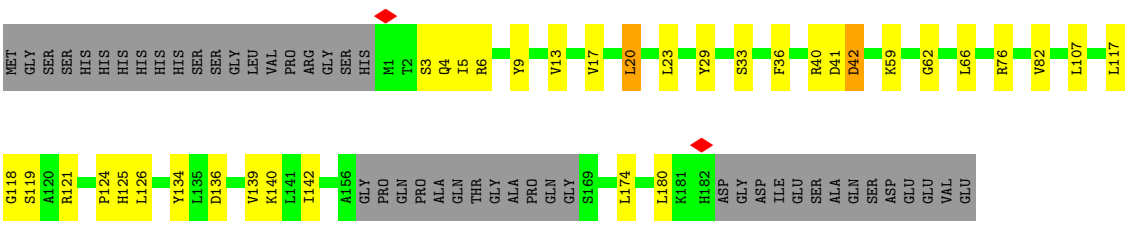
• Molecule 1: Ferritin

Chain P:



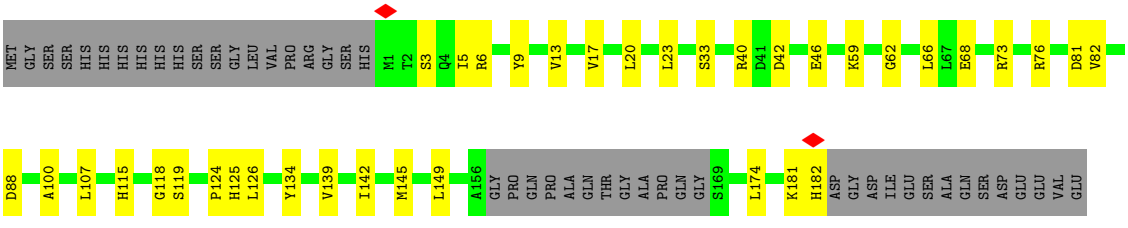
• Molecule 1: Ferritin

Chain Q:



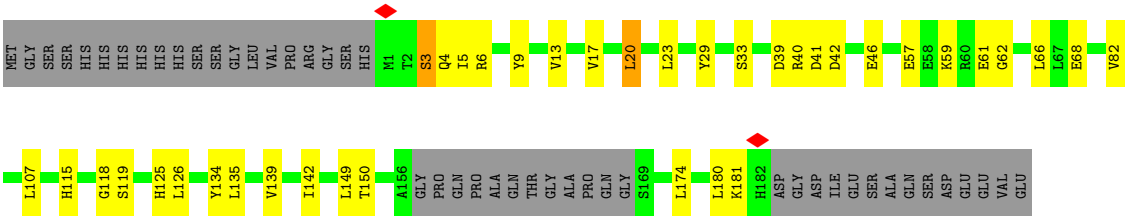
• Molecule 1: Ferritin

Chain R:



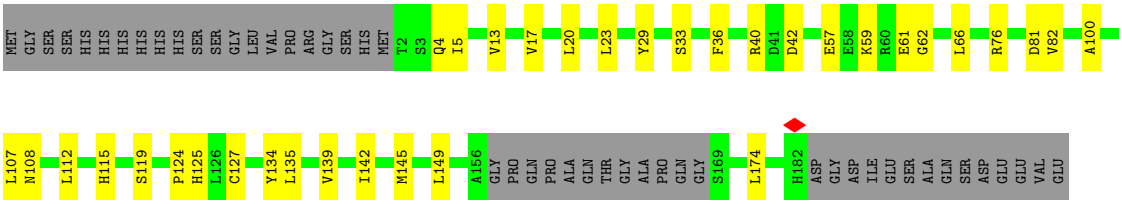
• Molecule 1: Ferritin

Chain S:



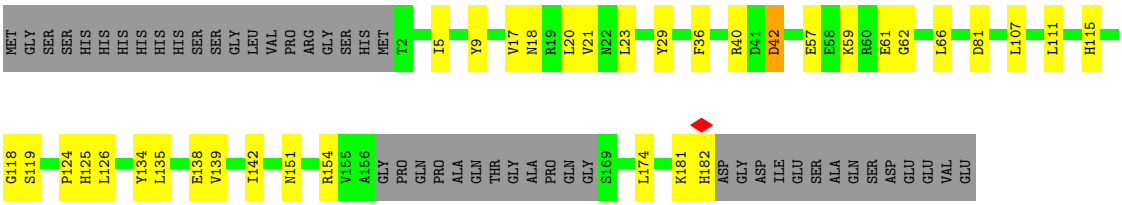
• Molecule 1: Ferritin

Chain T:



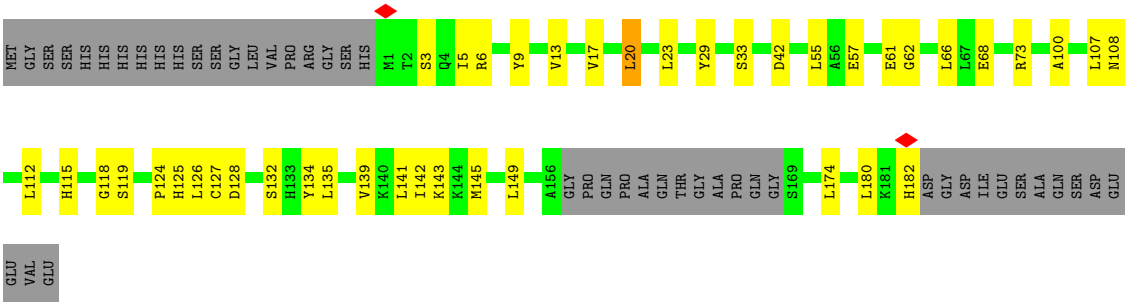
• Molecule 1: Ferritin

Chain U:



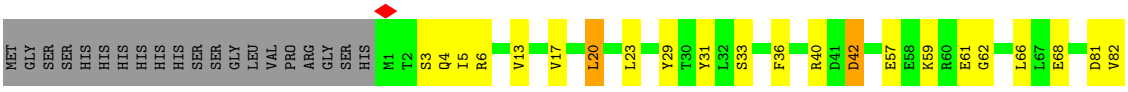
• Molecule 1: Ferritin

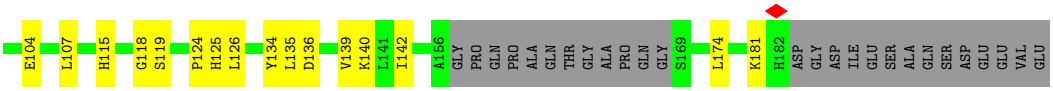
Chain V:



• Molecule 1: Ferritin

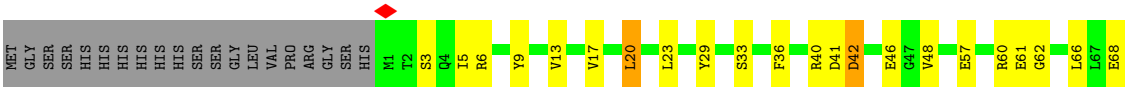
Chain W:

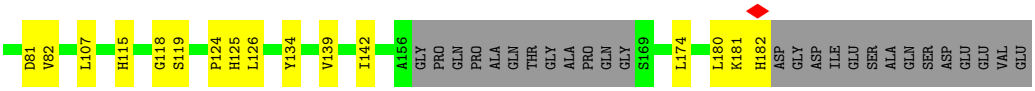




• Molecule 1: Ferritin

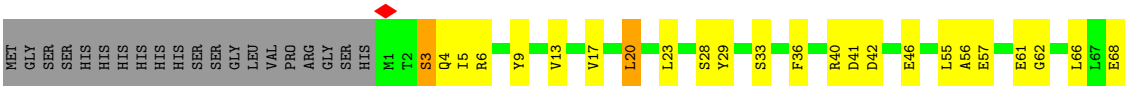
Chain X:





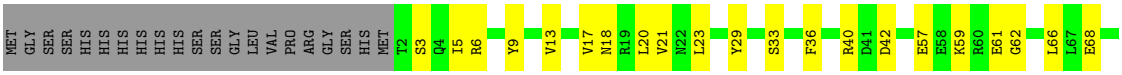
• Molecule 1: Ferritin

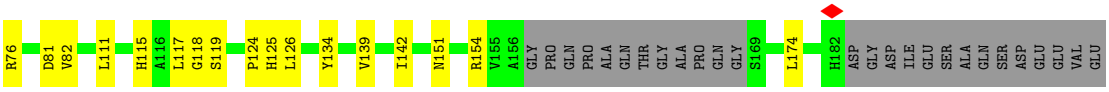
Chain Y:



• Molecule 1: Ferritin

Chain Z:





4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	98969	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING ONLY	Depositor
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	80	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.160	Depositor
Minimum map value	-0.072	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.03	Depositor
Map size (Å)	281.6, 281.6, 281.6	wwPDB
Map dimensions	256, 256, 256	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality

5.1 Standard geometry

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.26	0/1393	0.37	0/1871
1	B	0.26	0/1401	0.38	0/1881
1	C	0.26	0/1401	0.38	0/1881
1	D	0.26	0/1401	0.37	0/1881
1	E	0.27	0/1401	0.38	0/1881
1	F	0.26	0/1393	0.38	0/1871
1	I	0.26	0/1393	0.37	0/1871
1	J	0.26	0/1401	0.37	0/1881
1	K	0.26	0/1401	0.37	0/1881
1	L	0.26	0/1401	0.37	0/1881
1	M	0.26	0/1401	0.37	0/1881
1	N	0.27	0/1393	0.38	0/1871
1	O	0.26	0/1393	0.38	0/1871
1	P	0.25	0/1401	0.37	0/1881
1	Q	0.25	0/1401	0.37	0/1881
1	R	0.26	0/1401	0.37	0/1881
1	S	0.26	0/1401	0.37	0/1881
1	T	0.26	0/1393	0.38	0/1871
1	U	0.26	0/1393	0.37	0/1871
1	V	0.26	0/1401	0.38	0/1881
1	W	0.25	0/1401	0.37	0/1881
1	X	0.26	0/1401	0.38	0/1881
1	Y	0.26	0/1401	0.38	0/1881
1	Z	0.26	0/1393	0.37	0/1871
All	All	0.26	0/33560	0.38	0/45064

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)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1370	0	1341	24	0
1	B	1378	0	1353	28	0
1	C	1378	0	1353	32	0
1	D	1378	0	1353	27	0
1	E	1378	0	1353	31	0
1	F	1370	0	1341	31	0
1	I	1370	0	1341	24	0
1	J	1378	0	1353	22	0
1	K	1378	0	1353	26	0
1	L	1378	0	1353	22	0
1	M	1378	0	1353	24	0
1	N	1370	0	1341	29	0
1	O	1370	0	1341	25	0
1	P	1378	0	1353	21	0
1	Q	1378	0	1353	26	0
1	R	1378	0	1353	23	0
1	S	1378	0	1353	28	0
1	T	1370	0	1341	24	0
1	U	1370	0	1341	23	0
1	V	1378	0	1353	28	0
1	W	1378	0	1353	26	0
1	X	1378	0	1353	25	0
1	Y	1378	0	1353	32	0
1	Z	1370	0	1341	27	0
All	All	33008	0	32376	495	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 8.

All (495) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:42:ASP:HA	1:Y:150:THR:HG21	1.79	0.65
1:X:3:SER:HB3	1:X:6:ARG:HB2	1.78	0.64
1:S:150:THR:HG21	1:Y:42:ASP:HA	1.80	0.64

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:174:LEU:HD21	1:X:174:LEU:HD13	1.81	0.63
1:B:39:ASP:O	1:J:143:LYS:NZ	2.30	0.62
1:R:3:SER:HB3	1:R:6:ARG:HB2	1.82	0.62
1:D:174:LEU:HD13	1:I:174:LEU:HD21	1.83	0.61
1:R:174:LEU:HD13	1:U:174:LEU:HD21	1.82	0.61
1:R:174:LEU:HD21	1:Z:174:LEU:HD13	1.82	0.61
1:N:62:GLY:O	1:N:134:TYR:OH	2.19	0.61
1:F:174:LEU:HD13	1:X:174:LEU:HD21	1.82	0.61
1:I:62:GLY:O	1:I:134:TYR:OH	2.19	0.61
1:T:62:GLY:O	1:T:134:TYR:OH	2.19	0.61
1:V:62:GLY:O	1:V:134:TYR:OH	2.19	0.61
1:J:62:GLY:O	1:J:134:TYR:OH	2.19	0.61
1:T:17:VAL:HG13	1:T:66:LEU:HD22	1.83	0.61
1:Y:62:GLY:O	1:Y:134:TYR:OH	2.19	0.61
1:B:62:GLY:O	1:B:134:TYR:OH	2.19	0.60
1:O:62:GLY:O	1:O:134:TYR:OH	2.18	0.60
1:A:62:GLY:O	1:A:134:TYR:OH	2.20	0.60
1:M:62:GLY:O	1:M:134:TYR:OH	2.19	0.60
1:A:174:LEU:HD13	1:C:174:LEU:HD21	1.82	0.60
1:F:181:LYS:HE2	1:F:181:LYS:HA	1.82	0.60
1:W:62:GLY:O	1:W:134:TYR:OH	2.19	0.60
1:Y:17:VAL:HG13	1:Y:66:LEU:HD22	1.84	0.60
1:M:17:VAL:HG13	1:M:66:LEU:HD22	1.84	0.60
1:J:17:VAL:HG13	1:J:66:LEU:HD22	1.84	0.60
1:S:174:LEU:HD13	1:Y:174:LEU:HD21	1.83	0.60
1:K:174:LEU:HD13	1:N:174:LEU:HD21	1.84	0.60
1:C:174:LEU:HD13	1:F:174:LEU:HD21	1.83	0.59
1:E:17:VAL:HG13	1:E:66:LEU:HD22	1.83	0.59
1:I:174:LEU:HD13	1:K:174:LEU:HD21	1.82	0.59
1:X:62:GLY:O	1:X:134:TYR:OH	2.19	0.59
1:B:17:VAL:HG13	1:B:66:LEU:HD22	1.84	0.59
1:E:174:LEU:HD21	1:Y:174:LEU:HD13	1.84	0.59
1:N:40:ARG:NH1	1:N:42:ASP:OD2	2.30	0.59
1:E:62:GLY:O	1:E:134:TYR:OH	2.19	0.59
1:U:62:GLY:O	1:U:134:TYR:OH	2.18	0.59
1:P:62:GLY:O	1:P:134:TYR:OH	2.20	0.59
1:C:62:GLY:O	1:C:134:TYR:OH	2.20	0.59
1:S:62:GLY:O	1:S:134:TYR:OH	2.20	0.59
1:K:62:GLY:O	1:K:134:TYR:OH	2.19	0.59
1:F:62:GLY:O	1:F:134:TYR:OH	2.19	0.59
1:L:3:SER:HB3	1:L:6:ARG:HB2	1.83	0.59

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:174:LEU:HD13	1:S:174:LEU:HD21	1.83	0.59
1:R:62:GLY:O	1:R:134:TYR:OH	2.20	0.59
1:U:174:LEU:HD13	1:W:174:LEU:HD21	1.83	0.59
1:V:17:VAL:HG13	1:V:66:LEU:HD22	1.85	0.59
1:Z:40:ARG:NH1	1:Z:42:ASP:OD2	2.30	0.59
1:F:17:VAL:HG13	1:F:66:LEU:HD22	1.84	0.59
1:Z:3:SER:HB3	1:Z:6:ARG:HB2	1.85	0.59
1:L:174:LEU:HD13	1:O:174:LEU:HD21	1.84	0.59
1:O:174:LEU:HD13	1:Q:174:LEU:HD21	1.84	0.59
1:P:3:SER:HB3	1:P:6:ARG:HB2	1.84	0.59
1:P:174:LEU:HD21	1:V:174:LEU:HD13	1.85	0.58
1:Z:62:GLY:O	1:Z:134:TYR:OH	2.20	0.58
1:C:17:VAL:HG13	1:C:66:LEU:HD22	1.84	0.58
1:N:17:VAL:HG13	1:N:66:LEU:HD22	1.85	0.58
1:S:17:VAL:HG13	1:S:66:LEU:HD22	1.85	0.58
1:D:62:GLY:O	1:D:134:TYR:OH	2.21	0.58
1:F:40:ARG:NH1	1:F:42:ASP:OD2	2.33	0.58
1:P:17:VAL:HG13	1:P:66:LEU:HD22	1.85	0.58
1:K:17:VAL:HG13	1:K:66:LEU:HD22	1.84	0.58
1:Q:62:GLY:O	1:Q:134:TYR:OH	2.20	0.58
1:R:17:VAL:HG13	1:R:66:LEU:HD22	1.85	0.58
1:Z:17:VAL:HG13	1:Z:66:LEU:HD22	1.86	0.58
1:W:17:VAL:HG13	1:W:66:LEU:HD22	1.85	0.58
1:D:17:VAL:HG13	1:D:66:LEU:HD22	1.84	0.58
1:L:17:VAL:HG13	1:L:66:LEU:HD22	1.85	0.58
1:A:17:VAL:HG13	1:A:66:LEU:HD22	1.86	0.57
1:C:60:ARG:NH2	1:C:61:GLU:OE1	2.37	0.57
1:L:62:GLY:O	1:L:134:TYR:OH	2.21	0.57
1:Q:3:SER:HB3	1:Q:6:ARG:HB2	1.86	0.57
1:B:174:LEU:HD13	1:V:174:LEU:HD21	1.85	0.57
1:T:23:LEU:HD23	1:T:107:LEU:HD12	1.86	0.57
1:O:17:VAL:HG13	1:O:66:LEU:HD22	1.85	0.57
1:J:3:SER:HB3	1:J:6:ARG:HB2	1.85	0.57
1:J:174:LEU:HD21	1:P:174:LEU:HD13	1.86	0.57
1:W:40:ARG:NH2	1:W:42:ASP:OD2	2.34	0.57
1:E:174:LEU:HD13	1:M:174:LEU:HD21	1.86	0.57
1:F:3:SER:HB3	1:F:6:ARG:HB2	1.87	0.57
1:O:17:VAL:O	1:O:21:VAL:HG13	2.05	0.57
1:X:17:VAL:HG13	1:X:66:LEU:HD22	1.85	0.57
1:B:174:LEU:HD21	1:J:174:LEU:HD13	1.87	0.57
1:D:174:LEU:HD21	1:N:174:LEU:HD13	1.85	0.57

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:3:SER:HB3	1:K:6:ARG:HB2	1.86	0.57
1:M:40:ARG:NH2	1:M:42:ASP:OD2	2.30	0.57
1:Q:17:VAL:HG13	1:Q:66:LEU:HD22	1.85	0.57
1:T:40:ARG:NH1	1:T:42:ASP:OD2	2.33	0.57
1:L:174:LEU:HD21	1:T:174:LEU:HD13	1.86	0.56
1:W:174:LEU:HD13	1:Z:174:LEU:HD21	1.86	0.56
1:N:17:VAL:O	1:N:21:VAL:HG13	2.05	0.56
1:R:13:VAL:O	1:R:17:VAL:HG23	2.06	0.56
1:V:23:LEU:HD23	1:V:107:LEU:HD12	1.87	0.56
1:W:13:VAL:O	1:W:17:VAL:HG23	2.06	0.56
1:Q:174:LEU:HD13	1:T:174:LEU:HD21	1.87	0.56
1:J:13:VAL:O	1:J:17:VAL:HG23	2.06	0.56
1:L:40:ARG:NH2	1:L:42:ASP:OD2	2.31	0.56
1:M:13:VAL:O	1:M:17:VAL:HG23	2.06	0.56
1:S:13:VAL:O	1:S:17:VAL:HG23	2.06	0.56
1:U:17:VAL:O	1:U:21:VAL:HG13	2.06	0.56
1:B:13:VAL:O	1:B:17:VAL:HG23	2.06	0.56
1:C:3:SER:HB3	1:C:6:ARG:HB2	1.87	0.56
1:W:59:LYS:NZ	1:W:104:GLU:OE2	2.29	0.56
1:C:13:VAL:O	1:C:17:VAL:HG23	2.06	0.56
1:L:13:VAL:O	1:L:17:VAL:HG23	2.06	0.56
1:Z:13:VAL:O	1:Z:17:VAL:HG23	2.06	0.56
1:Z:17:VAL:O	1:Z:21:VAL:HG13	2.06	0.56
1:A:13:VAL:O	1:A:17:VAL:HG23	2.06	0.55
1:V:3:SER:HB3	1:V:6:ARG:HB2	1.87	0.55
1:T:13:VAL:O	1:T:17:VAL:HG23	2.06	0.55
1:X:13:VAL:O	1:X:17:VAL:HG23	2.06	0.55
1:C:40:ARG:NH2	1:C:42:ASP:OD2	2.33	0.55
1:E:13:VAL:O	1:E:17:VAL:HG23	2.06	0.55
1:I:139:VAL:HG21	1:L:125:HIS:CE1	2.41	0.55
1:I:13:VAL:O	1:I:17:VAL:HG23	2.06	0.55
1:M:143:LYS:NZ	1:S:39:ASP:O	2.30	0.55
1:Q:13:VAL:O	1:Q:17:VAL:HG23	2.06	0.55
1:F:13:VAL:O	1:F:17:VAL:HG23	2.06	0.55
1:O:13:VAL:O	1:O:17:VAL:HG23	2.06	0.55
1:P:13:VAL:O	1:P:17:VAL:HG23	2.06	0.55
1:Y:41:ASP:OD1	1:Z:76:ARG:NH2	2.37	0.55
1:B:23:LEU:HD23	1:B:107:LEU:HD12	1.90	0.55
1:N:13:VAL:O	1:N:17:VAL:HG23	2.06	0.55
1:I:17:VAL:HG13	1:I:66:LEU:HD22	1.87	0.54
1:X:40:ARG:NH2	1:X:42:ASP:OD2	2.32	0.54

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:13:VAL:O	1:K:17:VAL:HG23	2.06	0.54
1:Y:13:VAL:O	1:Y:17:VAL:HG23	2.06	0.54
1:D:13:VAL:O	1:D:17:VAL:HG23	2.06	0.54
1:V:13:VAL:O	1:V:17:VAL:HG23	2.06	0.54
1:X:23:LEU:HD23	1:X:107:LEU:HD12	1.90	0.54
1:W:3:SER:HB3	1:W:6:ARG:HB2	1.90	0.54
1:Y:40:ARG:NH2	1:Y:42:ASP:OD2	2.35	0.54
1:R:139:VAL:HG21	1:V:125:HIS:CE1	2.43	0.54
1:E:23:LEU:HD23	1:E:107:LEU:HD12	1.89	0.54
1:A:57:GLU:O	1:A:61:GLU:HG2	2.08	0.54
1:D:57:GLU:O	1:D:61:GLU:HG2	2.08	0.54
1:E:3:SER:HB3	1:E:6:ARG:HB2	1.89	0.54
1:A:125:HIS:CE1	1:J:139:VAL:HG21	2.44	0.53
1:J:39:ASP:O	1:P:143:LYS:NZ	2.34	0.53
1:D:23:LEU:HD23	1:D:107:LEU:HD12	1.90	0.53
1:K:125:HIS:CE1	1:T:139:VAL:HG21	2.43	0.53
1:B:139:VAL:HG21	1:U:125:HIS:CE1	2.43	0.53
1:R:100:ALA:HB1	1:R:145:MET:HE1	1.90	0.53
1:E:100:ALA:HB1	1:E:145:MET:HE1	1.91	0.53
1:I:125:HIS:CE1	1:P:139:VAL:HG21	2.43	0.53
1:A:57:GLU:OE1	1:A:60:ARG:NH1	2.41	0.53
1:O:125:HIS:CE1	1:V:139:VAL:HG21	2.43	0.53
1:O:139:VAL:HG21	1:R:125:HIS:CE1	2.44	0.53
1:B:42:ASP:OD1	1:B:42:ASP:N	2.41	0.53
1:L:23:LEU:HD23	1:L:107:LEU:HD12	1.90	0.53
1:D:40:ARG:NH2	1:D:42:ASP:OD2	2.33	0.52
1:S:139:VAL:HG21	1:Z:125:HIS:CE1	2.44	0.52
1:W:42:ASP:OD1	1:W:42:ASP:N	2.41	0.52
1:C:57:GLU:O	1:C:61:GLU:HG2	2.09	0.52
1:A:139:VAL:HG21	1:D:125:HIS:CE1	2.44	0.52
1:K:23:LEU:HD23	1:K:107:LEU:HD12	1.91	0.52
1:U:21:VAL:HG12	1:U:66:LEU:HB3	1.90	0.52
1:C:23:LEU:HD23	1:C:107:LEU:HD12	1.91	0.52
1:L:42:ASP:OD1	1:L:42:ASP:N	2.43	0.52
1:K:40:ARG:NH2	1:K:42:ASP:OD2	2.34	0.52
1:U:40:ARG:NH1	1:U:42:ASP:OD2	2.34	0.52
1:Y:23:LEU:HD23	1:Y:107:LEU:HD12	1.91	0.52
1:S:118:GLY:HA3	1:S:126:LEU:HD23	1.92	0.52
1:B:125:HIS:CE1	1:X:139:VAL:HG21	2.44	0.52
1:C:118:GLY:HA3	1:C:126:LEU:HD23	1.92	0.52
1:E:139:VAL:HG21	1:N:125:HIS:CE1	2.45	0.52

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:42:ASP:OD1	1:F:42:ASP:N	2.43	0.52
1:Y:3:SER:HB3	1:Y:6:ARG:HB2	1.90	0.52
1:Y:118:GLY:HA3	1:Y:126:LEU:HD23	1.92	0.52
1:F:139:VAL:HG21	1:W:125:HIS:CE1	2.46	0.51
1:O:42:ASP:OD1	1:O:42:ASP:N	2.43	0.51
1:F:125:HIS:CE1	1:Y:139:VAL:HG21	2.46	0.51
1:P:42:ASP:OD1	1:P:42:ASP:N	2.42	0.51
1:S:3:SER:HB3	1:S:6:ARG:HB2	1.92	0.51
1:S:40:ARG:NH2	1:S:42:ASP:OD2	2.33	0.51
1:Q:139:VAL:HG21	1:S:125:HIS:CE1	2.45	0.51
1:R:23:LEU:HD23	1:R:107:LEU:HD12	1.91	0.51
1:L:139:VAL:HG21	1:P:125:HIS:CE1	2.46	0.51
1:A:118:GLY:HA3	1:A:126:LEU:HD23	1.92	0.51
1:M:118:GLY:HA3	1:M:126:LEU:HD23	1.92	0.51
1:P:23:LEU:HD23	1:P:107:LEU:HD12	1.92	0.51
1:K:118:GLY:HA3	1:K:126:LEU:HD23	1.92	0.51
1:R:40:ARG:NH2	1:R:42:ASP:OD2	2.34	0.51
1:W:23:LEU:HD23	1:W:107:LEU:HD12	1.93	0.51
1:K:42:ASP:OD1	1:K:42:ASP:N	2.42	0.51
1:C:100:ALA:HB1	1:C:145:MET:HE1	1.92	0.50
1:C:125:HIS:CE1	1:N:139:VAL:HG21	2.46	0.50
1:E:118:GLY:HA3	1:E:126:LEU:HD23	1.94	0.50
1:J:42:ASP:OD1	1:J:42:ASP:N	2.42	0.50
1:M:23:LEU:HD23	1:M:107:LEU:HD12	1.93	0.50
1:Q:118:GLY:HA3	1:Q:126:LEU:HD23	1.92	0.50
1:E:40:ARG:NH2	1:E:42:ASP:OD2	2.34	0.50
1:Q:42:ASP:OD1	1:Q:42:ASP:N	2.43	0.50
1:S:23:LEU:HD23	1:S:107:LEU:HD12	1.94	0.50
1:U:139:VAL:HG21	1:X:125:HIS:CE1	2.46	0.50
1:D:42:ASP:OD1	1:D:42:ASP:N	2.43	0.50
1:D:118:GLY:HA3	1:D:126:LEU:HD23	1.94	0.50
1:M:139:VAL:HG21	1:T:125:HIS:CE1	2.47	0.49
1:W:118:GLY:HA3	1:W:126:LEU:HD23	1.94	0.49
1:K:59:LYS:NZ	1:K:138:GLU:OE1	2.43	0.49
1:U:57:GLU:O	1:U:61:GLU:HG2	2.13	0.49
1:I:100:ALA:HB1	1:I:145:MET:HE1	1.93	0.49
1:F:100:ALA:HB1	1:F:145:MET:HE1	1.94	0.49
1:M:59:LYS:NZ	1:M:138:GLU:OE2	2.44	0.49
1:Q:125:HIS:CE1	1:Z:139:VAL:HG21	2.46	0.49
1:Q:136:ASP:OD1	1:Q:140:LYS:NZ	2.45	0.49
1:R:118:GLY:HA3	1:R:126:LEU:HD23	1.95	0.49

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:57:GLU:O	1:Z:61:GLU:HG2	2.13	0.49
1:Q:23:LEU:HD23	1:Q:107:LEU:HD12	1.94	0.49
1:S:42:ASP:OD1	1:S:42:ASP:N	2.44	0.49
1:U:23:LEU:HD23	1:U:107:LEU:HD12	1.93	0.49
1:C:82:VAL:HB	1:D:82:VAL:HB	1.94	0.49
1:L:118:GLY:HA3	1:L:126:LEU:HD23	1.95	0.49
1:R:42:ASP:OD1	1:R:42:ASP:N	2.45	0.49
1:T:57:GLU:O	1:T:61:GLU:HG2	2.13	0.49
1:D:139:VAL:HG21	1:J:125:HIS:CE1	2.47	0.49
1:K:139:VAL:HG21	1:M:125:HIS:CE1	2.48	0.49
1:X:118:GLY:HA3	1:X:126:LEU:HD23	1.94	0.49
1:N:21:VAL:HG12	1:N:66:LEU:HB3	1.94	0.48
1:Q:40:ARG:NH2	1:Q:42:ASP:OD2	2.35	0.48
1:F:57:GLU:O	1:F:61:GLU:HG2	2.13	0.48
1:I:23:LEU:HD23	1:I:107:LEU:HD12	1.94	0.48
1:N:57:GLU:O	1:N:61:GLU:HG2	2.13	0.48
1:I:57:GLU:O	1:I:61:GLU:HG2	2.13	0.48
1:W:139:VAL:HG21	1:Y:125:HIS:CE1	2.48	0.48
1:B:3:SER:HB3	1:B:6:ARG:HB2	1.95	0.48
1:N:118:GLY:HA3	1:N:126:LEU:HD23	1.96	0.48
1:D:20:LEU:HD23	1:D:20:LEU:HA	1.76	0.48
1:U:118:GLY:HA3	1:U:126:LEU:HD23	1.94	0.48
1:V:57:GLU:O	1:V:61:GLU:HG2	2.14	0.48
1:C:139:VAL:HG21	1:E:125:HIS:CE1	2.49	0.48
1:D:46:GLU:OE1	1:D:177:ARG:NH2	2.47	0.48
1:A:23:LEU:HD23	1:A:107:LEU:HD12	1.95	0.48
1:I:40:ARG:NH1	1:I:42:ASP:OD2	2.35	0.48
1:I:118:GLY:HA3	1:I:126:LEU:HD23	1.94	0.48
1:M:57:GLU:O	1:M:61:GLU:HG2	2.12	0.48
1:W:136:ASP:OD2	1:W:140:LYS:NZ	2.47	0.48
1:Y:57:GLU:O	1:Y:61:GLU:HG2	2.14	0.48
1:D:150:THR:OG1	1:I:41:ASP:O	2.25	0.48
1:E:57:GLU:O	1:E:61:GLU:HG2	2.14	0.48
1:K:28:SER:OG	1:K:56:ALA:O	2.31	0.48
1:S:57:GLU:O	1:S:61:GLU:HG2	2.13	0.47
1:C:36:PHE:HE1	1:D:68:GLU:HG3	1.78	0.47
1:P:20:LEU:HD23	1:P:20:LEU:HA	1.77	0.47
1:Y:20:LEU:HD23	1:Y:20:LEU:HA	1.77	0.47
1:C:136:ASP:OD2	1:C:140:LYS:NZ	2.47	0.47
1:C:181:LYS:HE2	1:C:181:LYS:HA	1.96	0.47
1:D:41:ASP:O	1:N:150:THR:OG1	2.23	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:57:GLU:O	1:J:61:GLU:HG2	2.13	0.47
1:K:20:LEU:HD23	1:K:20:LEU:HA	1.77	0.47
1:P:118:GLY:HA3	1:P:126:LEU:HD23	1.96	0.47
1:V:20:LEU:HD23	1:V:20:LEU:HA	1.76	0.47
1:D:59:LYS:HA	1:D:59:LYS:HD3	1.73	0.47
1:J:118:GLY:HA3	1:J:126:LEU:HD23	1.96	0.47
1:Z:21:VAL:HG12	1:Z:66:LEU:HB3	1.95	0.47
1:N:100:ALA:HB1	1:N:145:MET:HE1	1.96	0.47
1:B:5:ILE:HB	1:X:142:ILE:HG22	1.97	0.47
1:C:42:ASP:OD1	1:C:42:ASP:N	2.44	0.47
1:F:118:GLY:HA3	1:F:126:LEU:HD23	1.97	0.47
1:K:136:ASP:OD2	1:K:140:LYS:NZ	2.46	0.47
1:O:150:THR:OG1	1:Q:41:ASP:O	2.26	0.47
1:S:20:LEU:HD23	1:S:20:LEU:HA	1.78	0.47
1:Y:55:LEU:HD22	1:Y:141:LEU:HD21	1.97	0.47
1:B:100:ALA:HB1	1:B:145:MET:HE1	1.98	0.46
1:E:68:GLU:HG3	1:F:36:PHE:HE1	1.80	0.46
1:S:59:LYS:HA	1:S:59:LYS:HD3	1.76	0.46
1:U:20:LEU:HD21	1:U:111:LEU:HD23	1.97	0.46
1:E:42:ASP:OD1	1:E:42:ASP:N	2.47	0.46
1:C:5:ILE:HB	1:N:142:ILE:HG22	1.97	0.46
1:B:118:GLY:HA3	1:B:126:LEU:HD23	1.98	0.46
1:I:68:GLU:HG3	1:J:36:PHE:HE1	1.81	0.46
1:M:150:THR:OG1	1:S:41:ASP:O	2.24	0.46
1:U:36:PHE:HE1	1:V:68:GLU:HG3	1.81	0.46
1:V:42:ASP:OD1	1:V:42:ASP:N	2.47	0.46
1:Y:36:PHE:HE1	1:Z:68:GLU:HG3	1.81	0.46
1:F:59:LYS:HD3	1:F:59:LYS:HA	1.74	0.46
1:I:42:ASP:OD1	1:I:42:ASP:N	2.45	0.46
1:J:20:LEU:HD23	1:J:20:LEU:HA	1.76	0.46
1:O:21:VAL:HG12	1:O:66:LEU:HB3	1.97	0.46
1:T:100:ALA:HB1	1:T:145:MET:HE1	1.97	0.46
1:X:42:ASP:OD1	1:X:42:ASP:N	2.42	0.46
1:Z:59:LYS:HD3	1:Z:59:LYS:HA	1.73	0.46
1:L:115:HIS:CE1	1:P:124:PRO:HB3	2.51	0.45
1:O:118:GLY:HA3	1:O:126:LEU:HD23	1.97	0.45
1:Z:118:GLY:HA3	1:Z:126:LEU:HD23	1.98	0.45
1:A:20:LEU:HD21	1:A:111:LEU:HD23	1.97	0.45
1:Q:5:ILE:HB	1:Z:142:ILE:HG22	1.99	0.45
1:V:100:ALA:HB1	1:V:145:MET:HE1	1.97	0.45
1:B:4:GLN:HG3	1:B:5:ILE:HG23	1.97	0.45

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:20:LEU:HD23	1:E:20:LEU:HA	1.77	0.45
1:K:5:ILE:HB	1:T:142:ILE:HG22	1.99	0.45
1:L:142:ILE:HG22	1:P:5:ILE:HB	1.99	0.45
1:P:39:ASP:O	1:V:143:LYS:NZ	2.35	0.45
1:A:42:ASP:OD1	1:A:42:ASP:N	2.44	0.45
1:C:117:LEU:O	1:C:121:ARG:HG2	2.17	0.45
1:M:82:VAL:HB	1:N:82:VAL:HB	1.99	0.45
1:A:36:PHE:HE1	1:B:68:GLU:HG3	1.80	0.45
1:E:181:LYS:HA	1:E:181:LYS:HE2	1.99	0.45
1:I:20:LEU:HD21	1:I:111:LEU:HD23	1.98	0.45
1:K:36:PHE:HE1	1:L:68:GLU:HG3	1.81	0.45
1:D:142:ILE:HG22	1:J:5:ILE:HB	1.99	0.45
1:Q:142:ILE:HG22	1:S:5:ILE:HB	1.99	0.45
1:S:142:ILE:HG22	1:Z:5:ILE:HB	1.99	0.45
1:D:115:HIS:CE1	1:J:124:PRO:HB3	2.52	0.45
1:K:48:VAL:HG22	1:K:180:LEU:HD12	1.99	0.45
1:L:181:LYS:HA	1:L:181:LYS:HE2	1.99	0.45
1:W:36:PHE:HE1	1:X:68:GLU:HG3	1.82	0.45
1:U:59:LYS:HA	1:U:59:LYS:HD3	1.80	0.45
1:D:4:GLN:HG3	1:D:5:ILE:HG23	2.00	0.44
1:E:41:ASP:OD1	1:F:76:ARG:NH2	2.46	0.44
1:F:5:ILE:HB	1:Y:142:ILE:HG22	2.00	0.44
1:M:42:ASP:OD1	1:M:42:ASP:N	2.48	0.44
1:Q:36:PHE:HE1	1:R:68:GLU:HG3	1.82	0.44
1:E:59:LYS:HA	1:E:59:LYS:HD3	1.76	0.44
1:F:142:ILE:HG22	1:W:5:ILE:HB	1.99	0.44
1:N:59:LYS:HD3	1:N:59:LYS:HA	1.78	0.44
1:E:149:LEU:HD23	1:E:149:LEU:HA	1.89	0.44
1:J:135:LEU:O	1:J:139:VAL:HG13	2.18	0.44
1:P:59:LYS:HA	1:P:59:LYS:HD3	1.73	0.44
1:B:59:LYS:HD3	1:B:59:LYS:HA	1.76	0.44
1:B:124:PRO:HB3	1:X:115:HIS:CE1	2.52	0.44
1:O:20:LEU:HD21	1:O:111:LEU:HD23	1.99	0.44
1:W:142:ILE:HG22	1:Y:5:ILE:HB	1.99	0.44
1:C:142:ILE:HG22	1:E:5:ILE:HB	2.00	0.44
1:I:142:ILE:HG22	1:L:5:ILE:HB	2.00	0.44
1:L:57:GLU:O	1:L:61:GLU:HG2	2.18	0.44
1:Q:117:LEU:O	1:Q:121:ARG:HG2	2.18	0.44
1:E:82:VAL:HB	1:F:82:VAL:HB	2.00	0.44
1:E:115:HIS:CE1	1:N:124:PRO:HB3	2.53	0.44
1:U:142:ILE:HG22	1:X:5:ILE:HB	2.00	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:57:GLU:O	1:B:61:GLU:HG3	2.18	0.43
1:J:4:GLN:HG3	1:J:5:ILE:HG23	1.99	0.43
1:I:124:PRO:HB3	1:P:115:HIS:CE1	2.54	0.43
1:Q:20:LEU:HD23	1:Q:20:LEU:HA	1.76	0.43
1:K:142:ILE:HG22	1:M:5:ILE:HB	2.00	0.43
1:N:18:ASN:O	1:N:21:VAL:HG22	2.18	0.43
1:O:142:ILE:HG22	1:R:5:ILE:HB	2.01	0.43
1:U:18:ASN:O	1:U:21:VAL:HG22	2.17	0.43
1:F:124:PRO:HB3	1:Y:115:HIS:CE1	2.53	0.43
1:Q:124:PRO:HB3	1:Z:115:HIS:CE1	2.53	0.43
1:Y:108:ASN:HB2	1:Y:138:GLU:HG2	2.01	0.43
1:Y:135:LEU:O	1:Y:139:VAL:HG13	2.19	0.43
1:B:115:HIS:CE1	1:U:124:PRO:HB3	2.53	0.43
1:O:68:GLU:HG3	1:P:36:PHE:HE1	1.83	0.43
1:T:42:ASP:OD1	1:T:42:ASP:N	2.45	0.43
1:A:40:ARG:NH1	1:A:42:ASP:OD2	2.33	0.43
1:O:124:PRO:HB3	1:V:115:HIS:CE1	2.53	0.43
1:P:135:LEU:O	1:P:139:VAL:HG13	2.19	0.43
1:R:115:HIS:CE1	1:V:124:PRO:HB3	2.53	0.43
1:V:118:GLY:HA3	1:V:126:LEU:HD23	2.00	0.43
1:X:57:GLU:O	1:X:61:GLU:HG3	2.18	0.43
1:J:59:LYS:HA	1:J:59:LYS:HD3	1.78	0.43
1:K:117:LEU:O	1:K:121:ARG:HG2	2.19	0.43
1:Y:28:SER:OG	1:Y:56:ALA:O	2.34	0.43
1:Z:18:ASN:O	1:Z:21:VAL:HG22	2.18	0.43
1:F:115:HIS:CE1	1:W:124:PRO:HB3	2.54	0.43
1:O:115:HIS:CE1	1:R:124:PRO:HB3	2.54	0.43
1:S:82:VAL:HB	1:T:82:VAL:HB	2.00	0.43
1:S:115:HIS:CE1	1:Z:124:PRO:HB3	2.54	0.43
1:U:115:HIS:CE1	1:X:124:PRO:HB3	2.54	0.43
1:W:68:GLU:HG3	1:X:36:PHE:HE1	1.84	0.43
1:O:135:LEU:O	1:O:139:VAL:HG13	2.18	0.43
1:S:41:ASP:OD1	1:T:76:ARG:NH2	2.46	0.43
1:A:135:LEU:O	1:A:139:VAL:HG13	2.19	0.42
1:I:117:LEU:O	1:I:121:ARG:HG2	2.18	0.42
1:O:18:ASN:O	1:O:21:VAL:HG22	2.19	0.42
1:R:142:ILE:HG22	1:V:5:ILE:HB	2.00	0.42
1:V:128:ASP:O	1:V:132:SER:OG	2.34	0.42
1:K:135:LEU:O	1:K:139:VAL:HG13	2.19	0.42
1:M:135:LEU:O	1:M:139:VAL:HG13	2.19	0.42
1:U:135:LEU:O	1:U:139:VAL:HG13	2.19	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:135:LEU:O	1:W:139:VAL:HG13	2.19	0.42
1:B:142:ILE:HG22	1:U:5:ILE:HB	2.01	0.42
1:I:73:ARG:HD3	1:I:125:HIS:ND1	2.34	0.42
1:I:135:LEU:O	1:I:139:VAL:HG13	2.18	0.42
1:K:124:PRO:HB3	1:T:115:HIS:CE1	2.53	0.42
1:M:68:GLU:HG3	1:N:36:PHE:HE1	1.83	0.42
1:S:135:LEU:O	1:S:139:VAL:HG13	2.19	0.42
1:Y:42:ASP:OD1	1:Y:42:ASP:N	2.48	0.42
1:C:135:LEU:O	1:C:139:VAL:HG13	2.20	0.42
1:S:68:GLU:HG3	1:T:36:PHE:HE1	1.84	0.42
1:W:57:GLU:O	1:W:61:GLU:HG2	2.18	0.42
1:A:124:PRO:HB3	1:J:115:HIS:CE1	2.53	0.42
1:C:124:PRO:HB3	1:N:115:HIS:CE1	2.54	0.42
1:E:36:PHE:HE1	1:F:68:GLU:HG3	1.84	0.42
1:F:108:ASN:O	1:F:112:LEU:HG	2.19	0.42
1:N:55:LEU:HD22	1:N:141:LEU:HD21	2.00	0.42
1:Q:4:GLN:HG3	1:Q:5:ILE:HG23	2.02	0.42
1:A:59:LYS:HD3	1:A:59:LYS:HA	1.78	0.42
1:A:73:ARG:HD3	1:A:125:HIS:ND1	2.34	0.42
1:C:20:LEU:HA	1:C:20:LEU:HD23	1.77	0.42
1:O:40:ARG:NH1	1:O:42:ASP:OD2	2.37	0.42
1:Q:59:LYS:HA	1:Q:59:LYS:HD3	1.79	0.42
1:U:42:ASP:OD1	1:U:42:ASP:N	2.42	0.42
1:W:82:VAL:HB	1:X:82:VAL:HB	2.00	0.42
1:A:117:LEU:O	1:A:121:ARG:HG2	2.19	0.42
1:C:59:LYS:HA	1:C:59:LYS:HD3	1.77	0.42
1:N:28:SER:OG	1:N:56:ALA:O	2.34	0.42
1:O:36:PHE:HE1	1:P:68:GLU:HG3	1.85	0.42
1:X:20:LEU:HD23	1:X:20:LEU:HA	1.77	0.42
1:B:55:LEU:HD22	1:B:141:LEU:HD21	2.02	0.42
1:C:4:GLN:HG3	1:C:5:ILE:HG23	2.02	0.42
1:C:115:HIS:CE1	1:E:124:PRO:HB3	2.54	0.42
1:F:20:LEU:HA	1:F:20:LEU:HD23	1.77	0.42
1:Y:82:VAL:HB	1:Z:82:VAL:HB	2.01	0.42
1:M:36:PHE:HE1	1:N:68:GLU:HG3	1.85	0.42
1:B:128:ASP:O	1:B:132:SER:OG	2.34	0.42
1:C:150:THR:OG1	1:F:41:ASP:O	2.26	0.42
1:D:37:PHE:O	1:D:40:ARG:HG3	2.20	0.42
1:Q:41:ASP:OD1	1:R:76:ARG:NH2	2.46	0.42
1:Q:82:VAL:HB	1:R:82:VAL:HB	2.01	0.42
1:T:4:GLN:HG3	1:T:5:ILE:HG23	2.01	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:115:HIS:CE1	1:Y:124:PRO:HB3	2.54	0.42
1:X:48:VAL:HG22	1:X:180:LEU:HD12	2.01	0.42
1:C:41:ASP:OD1	1:D:76:ARG:NH2	2.47	0.41
1:M:115:HIS:CE1	1:T:124:PRO:HB3	2.54	0.41
1:T:59:LYS:HD3	1:T:59:LYS:HA	1.78	0.41
1:U:59:LYS:NZ	1:U:138:GLU:OE2	2.52	0.41
1:D:169:SER:HB2	1:D:170:LEU:H	1.70	0.41
1:J:81:ASP:OD1	1:J:81:ASP:N	2.53	0.41
1:K:68:GLU:HG3	1:L:36:PHE:HE1	1.85	0.41
1:L:37:PHE:O	1:L:40:ARG:HG3	2.20	0.41
1:O:5:ILE:HB	1:V:142:ILE:HG22	2.02	0.41
1:V:180:LEU:HD23	1:V:180:LEU:HA	1.90	0.41
1:W:4:GLN:HG3	1:W:5:ILE:HG23	2.02	0.41
1:A:149:LEU:HD23	1:A:149:LEU:HA	1.91	0.41
1:B:20:LEU:HA	1:B:20:LEU:HD23	1.77	0.41
1:F:26:ARG:HD2	1:F:83:GLN:HB2	2.02	0.41
1:L:20:LEU:HD23	1:L:20:LEU:HA	1.78	0.41
1:N:108:ASN:O	1:N:112:LEU:HG	2.21	0.41
1:R:73:ARG:HD3	1:R:125:HIS:ND1	2.35	0.41
1:W:31:TYR:OH	1:W:104:GLU:HG2	2.20	0.41
1:A:170:LEU:HD11	1:X:174:LEU:HD12	2.02	0.41
1:O:59:LYS:HA	1:O:59:LYS:HD3	1.76	0.41
1:Y:68:GLU:HG3	1:Z:36:PHE:HE1	1.86	0.41
1:A:169:SER:HB2	1:A:170:LEU:H	1.73	0.41
1:V:55:LEU:HD22	1:V:141:LEU:HD21	2.01	0.41
1:Z:23:LEU:HD23	1:Z:23:LEU:HA	1.87	0.41
1:Z:151:ASN:OD1	1:Z:154:ARG:NH1	2.54	0.41
1:B:73:ARG:HD3	1:B:125:HIS:ND1	2.36	0.41
1:C:174:LEU:HD12	1:F:170:LEU:HD11	2.03	0.41
1:R:59:LYS:HA	1:R:59:LYS:HD3	1.79	0.41
1:S:149:LEU:HD23	1:S:149:LEU:HA	1.90	0.41
1:T:149:LEU:HD23	1:T:149:LEU:HA	1.90	0.41
1:A:142:ILE:HG22	1:D:5:ILE:HB	2.03	0.41
1:B:181:LYS:HD2	1:B:181:LYS:HA	1.87	0.41
1:F:135:LEU:O	1:F:139:VAL:HG13	2.21	0.41
1:Q:76:ARG:HA	1:Q:76:ARG:HD3	1.96	0.41
1:I:59:LYS:HA	1:I:59:LYS:HD3	1.85	0.41
1:N:180:LEU:HD23	1:N:180:LEU:HA	1.95	0.41
1:O:108:ASN:O	1:O:112:LEU:HG	2.21	0.41
1:S:180:LEU:HD23	1:S:180:LEU:HA	1.92	0.41
1:V:73:ARG:HD3	1:V:125:HIS:ND1	2.36	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:V:135:LEU:O	1:V:139:VAL:HG13	2.21	0.41
1:W:20:LEU:HD23	1:W:20:LEU:HA	1.77	0.41
1:Y:4:GLN:HG3	1:Y:5:ILE:HG23	2.02	0.41
1:Y:100:ALA:HB1	1:Y:145:MET:HE2	2.03	0.41
1:E:135:LEU:O	1:E:139:VAL:HG13	2.21	0.41
1:I:45:LEU:HB3	1:I:48:VAL:HG12	2.03	0.41
1:K:4:GLN:HG3	1:K:5:ILE:HG23	2.03	0.41
1:N:135:LEU:O	1:N:139:VAL:HG13	2.21	0.41
1:R:149:LEU:HD23	1:R:149:LEU:HA	1.93	0.41
1:S:4:GLN:HG3	1:S:5:ILE:HG23	2.02	0.41
1:T:108:ASN:O	1:T:112:LEU:HG	2.21	0.41
1:U:151:ASN:OD1	1:U:154:ARG:NH1	2.54	0.41
1:Y:115:HIS:NE2	1:Y:127:CYS:HB3	2.36	0.41
1:B:108:ASN:O	1:B:112:LEU:HG	2.21	0.40
1:F:45:LEU:HB3	1:F:48:VAL:HG12	2.03	0.40
1:T:115:HIS:NE2	1:T:127:CYS:HB3	2.37	0.40
1:T:135:LEU:O	1:T:139:VAL:HG13	2.21	0.40
1:V:149:LEU:HD23	1:V:149:LEU:HA	1.93	0.40
1:D:174:LEU:HD12	1:I:170:LEU:HD11	2.03	0.40
1:E:45:LEU:HB3	1:E:48:VAL:HG12	2.04	0.40
1:K:73:ARG:HD3	1:K:125:HIS:ND1	2.36	0.40
1:M:59:LYS:HA	1:M:59:LYS:HD3	1.78	0.40
1:O:73:ARG:HD3	1:O:125:HIS:ND1	2.37	0.40
1:V:108:ASN:O	1:V:112:LEU:HG	2.21	0.40
1:E:4:GLN:HG3	1:E:5:ILE:HG23	2.02	0.40
1:E:28:SER:OG	1:E:56:ALA:O	2.36	0.40
1:E:108:ASN:O	1:E:112:LEU:HG	2.21	0.40
1:F:150:THR:OG1	1:X:41:ASP:O	2.26	0.40
1:M:108:ASN:O	1:M:112:LEU:HG	2.21	0.40
1:Z:42:ASP:OD1	1:Z:42:ASP:N	2.49	0.40
1:L:59:LYS:HD3	1:L:59:LYS:HA	1.77	0.40
1:M:4:GLN:HG3	1:M:5:ILE:HG23	2.03	0.40
1:N:20:LEU:HD21	1:N:111:LEU:HD23	2.02	0.40
1:N:45:LEU:HB3	1:N:48:VAL:HG12	2.04	0.40
1:Q:180:LEU:HD23	1:Q:180:LEU:HA	1.89	0.40
1:V:115:HIS:NE2	1:V:127:CYS:HB3	2.37	0.40
1:X:60:ARG:HG3	1:X:61:GLU:N	2.36	0.40
1:Y:108:ASN:O	1:Y:112:LEU:HG	2.22	0.40
1:Z:20:LEU:HD21	1:Z:111:LEU:HD23	2.04	0.40
1:B:60:ARG:HG3	1:B:61:GLU:N	2.36	0.40
1:C:108:ASN:O	1:C:112:LEU:HG	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	165/216 (76%)	165 (100%)	0	0	100	100
1	B	166/216 (77%)	166 (100%)	0	0	100	100
1	C	166/216 (77%)	166 (100%)	0	0	100	100
1	D	166/216 (77%)	164 (99%)	2 (1%)	0	100	100
1	E	166/216 (77%)	166 (100%)	0	0	100	100
1	F	165/216 (76%)	165 (100%)	0	0	100	100
1	I	165/216 (76%)	165 (100%)	0	0	100	100
1	J	166/216 (77%)	166 (100%)	0	0	100	100
1	K	166/216 (77%)	165 (99%)	1 (1%)	0	100	100
1	L	166/216 (77%)	166 (100%)	0	0	100	100
1	M	166/216 (77%)	166 (100%)	0	0	100	100
1	N	165/216 (76%)	165 (100%)	0	0	100	100
1	O	165/216 (76%)	165 (100%)	0	0	100	100
1	P	166/216 (77%)	166 (100%)	0	0	100	100
1	Q	166/216 (77%)	166 (100%)	0	0	100	100
1	R	166/216 (77%)	166 (100%)	0	0	100	100
1	S	166/216 (77%)	166 (100%)	0	0	100	100
1	T	165/216 (76%)	165 (100%)	0	0	100	100
1	U	165/216 (76%)	165 (100%)	0	0	100	100
1	V	166/216 (77%)	166 (100%)	0	0	100	100
1	W	166/216 (77%)	166 (100%)	0	0	100	100
1	X	166/216 (77%)	166 (100%)	0	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	Y	166/216 (77%)	166 (100%)	0	0	100	100
1	Z	165/216 (76%)	165 (100%)	0	0	100	100
All	All	3976/5184 (77%)	3973 (100%)	3 (0%)	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	A	143/180 (79%)	136 (95%)	7 (5%)	25	61
1	B	144/180 (80%)	136 (94%)	8 (6%)	21	56
1	C	144/180 (80%)	138 (96%)	6 (4%)	30	66
1	D	144/180 (80%)	137 (95%)	7 (5%)	25	61
1	E	144/180 (80%)	136 (94%)	8 (6%)	21	56
1	F	143/180 (79%)	137 (96%)	6 (4%)	30	66
1	I	143/180 (79%)	139 (97%)	4 (3%)	43	77
1	J	144/180 (80%)	136 (94%)	8 (6%)	21	56
1	K	144/180 (80%)	137 (95%)	7 (5%)	25	61
1	L	144/180 (80%)	137 (95%)	7 (5%)	25	61
1	M	144/180 (80%)	135 (94%)	9 (6%)	18	51
1	N	143/180 (79%)	138 (96%)	5 (4%)	36	71
1	O	143/180 (79%)	137 (96%)	6 (4%)	30	66
1	P	144/180 (80%)	137 (95%)	7 (5%)	25	61
1	Q	144/180 (80%)	138 (96%)	6 (4%)	30	66
1	R	144/180 (80%)	135 (94%)	9 (6%)	18	51
1	S	144/180 (80%)	136 (94%)	8 (6%)	21	56
1	T	143/180 (79%)	138 (96%)	5 (4%)	36	71
1	U	143/180 (79%)	136 (95%)	7 (5%)	25	61

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	V	144/180 (80%)	138 (96%)	6 (4%)	30 66
1	W	144/180 (80%)	137 (95%)	7 (5%)	25 61
1	X	144/180 (80%)	134 (93%)	10 (7%)	15 48
1	Y	144/180 (80%)	136 (94%)	8 (6%)	21 56
1	Z	143/180 (79%)	137 (96%)	6 (4%)	30 66
All	All	3448/4320 (80%)	3281 (95%)	167 (5%)	29 62

All (167) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	9	TYR
1	A	29	TYR
1	A	33	SER
1	A	46	GLU
1	A	81	ASP
1	A	119	SER
1	A	138	GLU
1	B	7	GLN
1	B	20	LEU
1	B	29	TYR
1	B	33	SER
1	B	42	ASP
1	B	46	GLU
1	B	119	SER
1	B	177	ARG
1	C	20	LEU
1	C	29	TYR
1	C	33	SER
1	C	46	GLU
1	C	119	SER
1	C	128	ASP
1	D	3	SER
1	D	20	LEU
1	D	29	TYR
1	D	33	SER
1	D	46	GLU
1	D	81	ASP
1	D	119	SER
1	E	3	SER
1	E	9	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	E	20	LEU
1	E	29	TYR
1	E	46	GLU
1	E	81	ASP
1	E	119	SER
1	E	177	ARG
1	F	20	LEU
1	F	29	TYR
1	F	33	SER
1	F	81	ASP
1	F	117	LEU
1	F	119	SER
1	I	9	TYR
1	I	33	SER
1	I	81	ASP
1	I	119	SER
1	J	9	TYR
1	J	20	LEU
1	J	29	TYR
1	J	33	SER
1	J	42	ASP
1	J	81	ASP
1	J	119	SER
1	J	182	HIS
1	K	9	TYR
1	K	20	LEU
1	K	29	TYR
1	K	33	SER
1	K	42	ASP
1	K	46	GLU
1	K	119	SER
1	L	9	TYR
1	L	29	TYR
1	L	33	SER
1	L	42	ASP
1	L	46	GLU
1	L	81	ASP
1	L	119	SER
1	M	3	SER
1	M	9	TYR
1	M	29	TYR
1	M	33	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	M	46	GLU
1	M	78	LEU
1	M	119	SER
1	M	181	LYS
1	M	182	HIS
1	N	29	TYR
1	N	46	GLU
1	N	81	ASP
1	N	117	LEU
1	N	119	SER
1	O	9	TYR
1	O	29	TYR
1	O	33	SER
1	O	42	ASP
1	O	81	ASP
1	O	119	SER
1	P	9	TYR
1	P	20	LEU
1	P	29	TYR
1	P	33	SER
1	P	42	ASP
1	P	119	SER
1	P	138	GLU
1	Q	9	TYR
1	Q	20	LEU
1	Q	29	TYR
1	Q	33	SER
1	Q	42	ASP
1	Q	119	SER
1	R	9	TYR
1	R	20	LEU
1	R	33	SER
1	R	46	GLU
1	R	81	ASP
1	R	88	ASP
1	R	119	SER
1	R	181	LYS
1	R	182	HIS
1	S	3	SER
1	S	9	TYR
1	S	20	LEU
1	S	29	TYR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	S	33	SER
1	S	46	GLU
1	S	119	SER
1	S	181	LYS
1	T	20	LEU
1	T	29	TYR
1	T	33	SER
1	T	81	ASP
1	T	119	SER
1	U	9	TYR
1	U	29	TYR
1	U	42	ASP
1	U	81	ASP
1	U	119	SER
1	U	181	LYS
1	U	182	HIS
1	V	9	TYR
1	V	20	LEU
1	V	29	TYR
1	V	33	SER
1	V	119	SER
1	V	182	HIS
1	W	20	LEU
1	W	29	TYR
1	W	33	SER
1	W	42	ASP
1	W	81	ASP
1	W	119	SER
1	W	181	LYS
1	X	9	TYR
1	X	20	LEU
1	X	29	TYR
1	X	33	SER
1	X	42	ASP
1	X	46	GLU
1	X	81	ASP
1	X	119	SER
1	X	181	LYS
1	X	182	HIS
1	Y	3	SER
1	Y	9	TYR
1	Y	20	LEU

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	Y	29	TYR
1	Y	33	SER
1	Y	46	GLU
1	Y	119	SER
1	Y	181	LYS
1	Z	9	TYR
1	Z	29	TYR
1	Z	33	SER
1	Z	81	ASP
1	Z	117	LEU
1	Z	119	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (68) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	22	ASN
1	A	83	GLN
1	A	87	GLN
1	A	133	HIS
1	B	7	GLN
1	B	8	ASN
1	B	87	GLN
1	B	133	HIS
1	C	22	ASN
1	C	83	GLN
1	C	87	GLN
1	C	133	HIS
1	D	8	ASN
1	D	87	GLN
1	D	133	HIS
1	E	83	GLN
1	E	87	GLN
1	E	133	HIS
1	F	87	GLN
1	F	133	HIS
1	I	87	GLN
1	I	133	HIS
1	J	87	GLN
1	J	133	HIS
1	K	22	ASN
1	K	83	GLN
1	K	87	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	K	133	HIS
1	L	87	GLN
1	L	133	HIS
1	M	83	GLN
1	M	87	GLN
1	M	133	HIS
1	N	87	GLN
1	N	133	HIS
1	N	182	HIS
1	O	87	GLN
1	O	133	HIS
1	P	87	GLN
1	P	133	HIS
1	Q	133	HIS
1	R	83	GLN
1	R	87	GLN
1	R	133	HIS
1	S	22	ASN
1	S	83	GLN
1	S	87	GLN
1	S	133	HIS
1	T	87	GLN
1	T	133	HIS
1	U	22	ASN
1	U	87	GLN
1	U	133	HIS
1	V	87	GLN
1	V	133	HIS
1	V	182	HIS
1	W	87	GLN
1	W	133	HIS
1	W	182	HIS
1	X	87	GLN
1	X	108	ASN
1	X	133	HIS
1	Y	22	ASN
1	Y	83	GLN
1	Y	87	GLN
1	Y	133	HIS
1	Z	87	GLN
1	Z	133	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

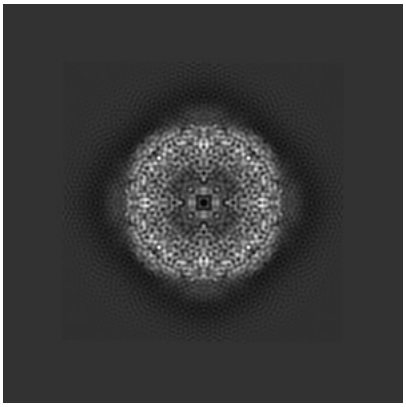
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-11265. These allow visual inspection of the internal detail of the map and identification of artifacts.

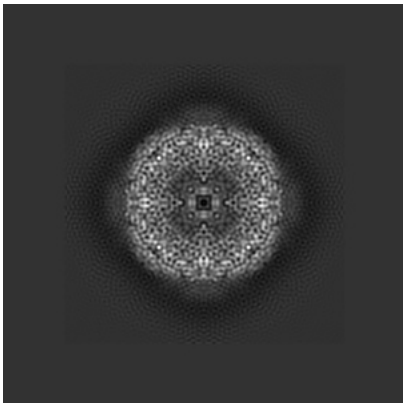
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

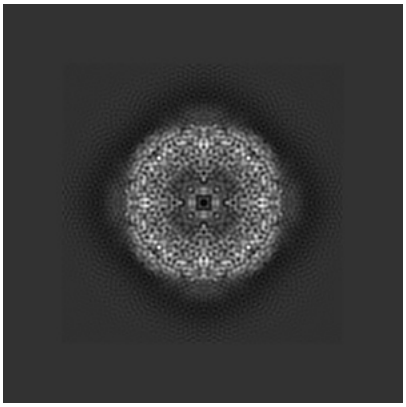
6.1.1 Primary map



X



Y

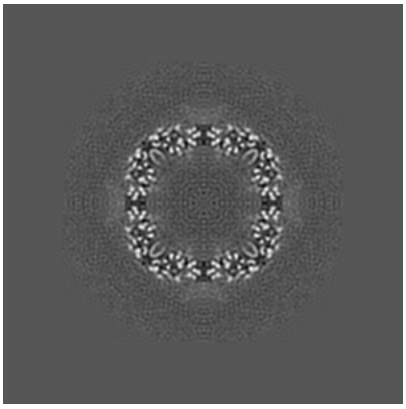


Z

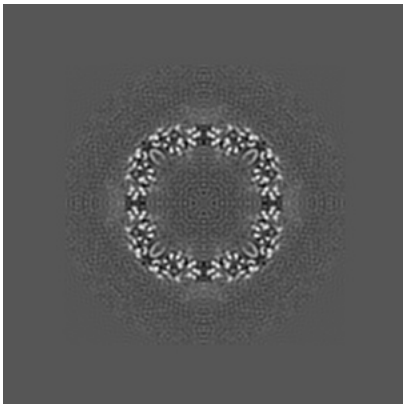
The images above show the map projected in three orthogonal directions.

6.2 Central slices

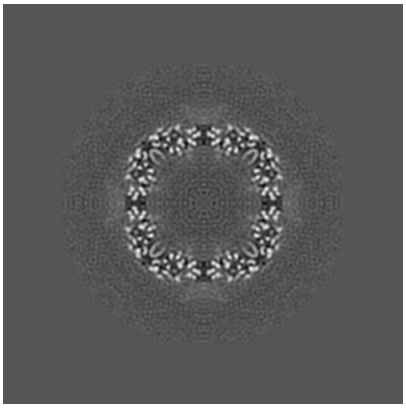
6.2.1 Primary map



X Index: 128



Y Index: 128

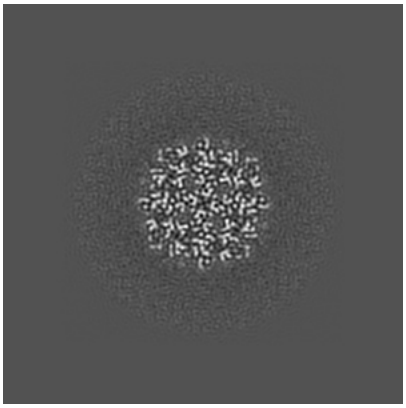


Z Index: 128

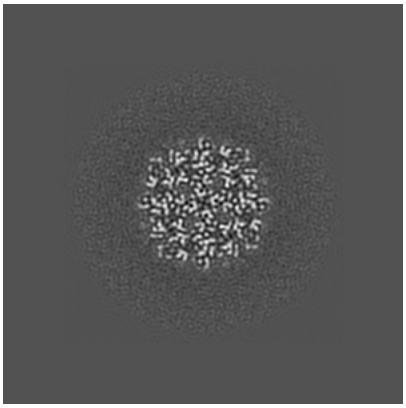
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

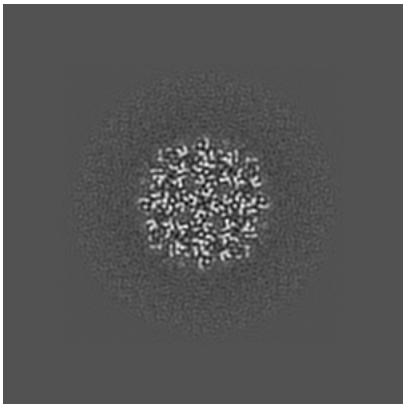
6.3.1 Primary map



X Index: 90



Y Index: 166

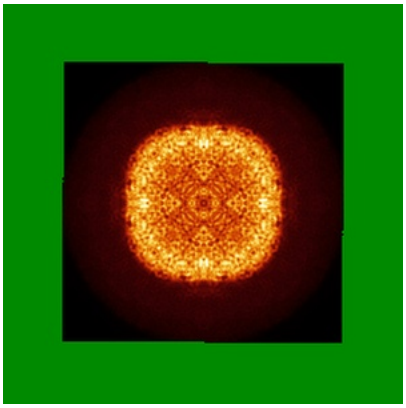


Z Index: 90

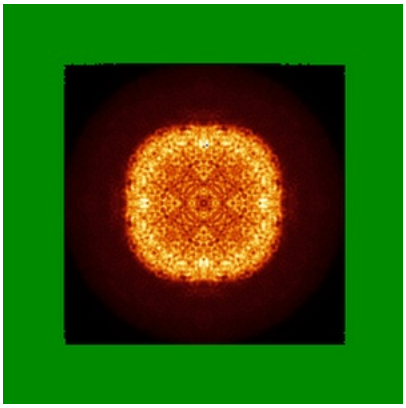
The images above show the largest variance slices of the map in three orthogonal directions.

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

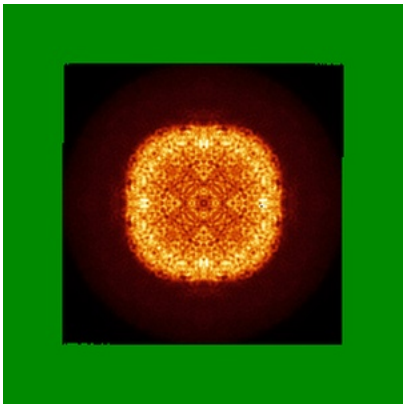
6.4.1 Primary map



X



Y

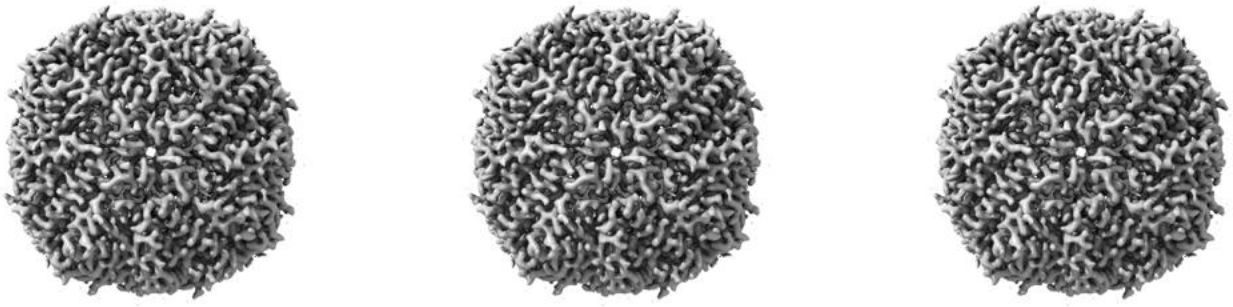


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

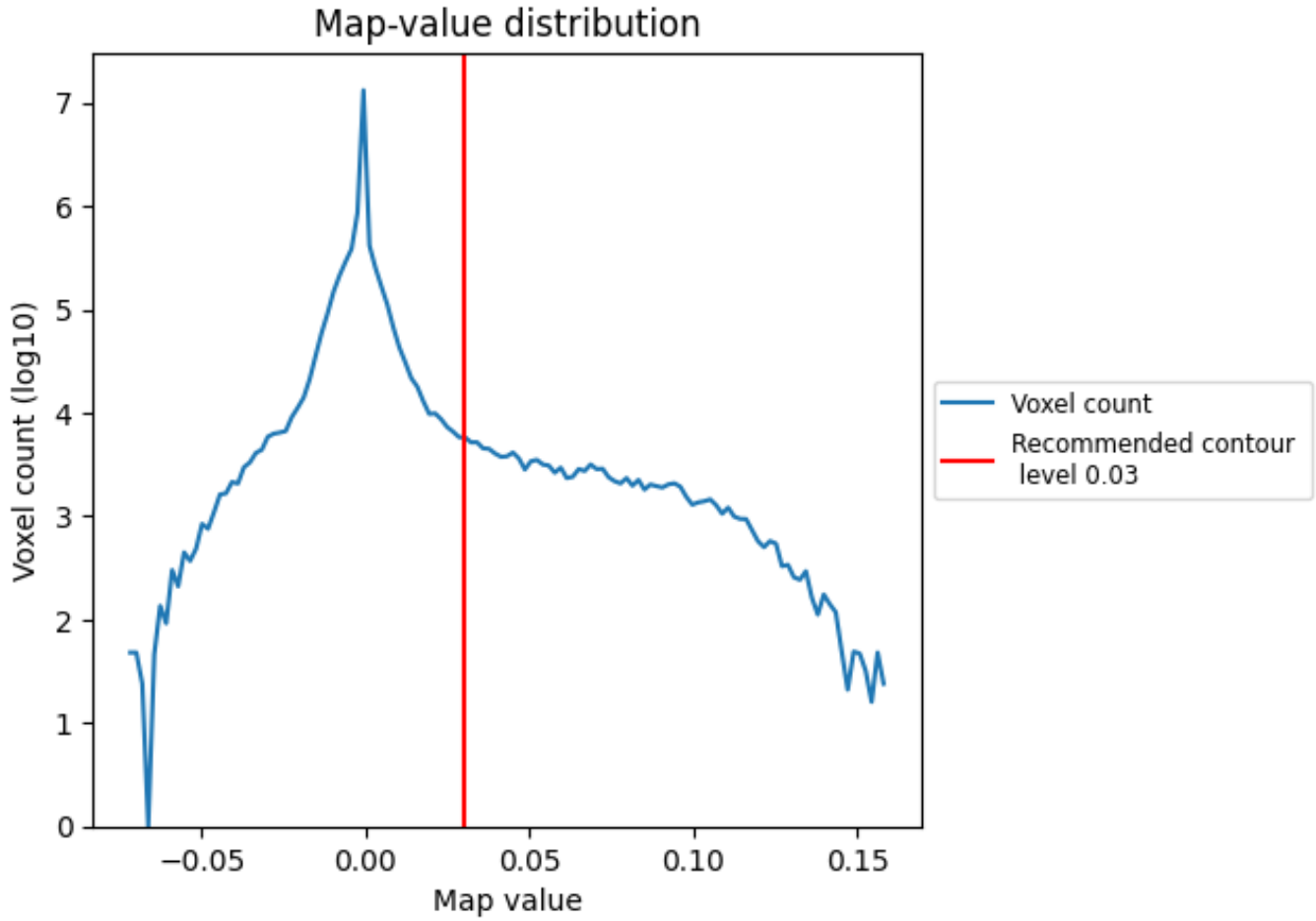
6.6 Mask visualisation (i)

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

7 Map analysis

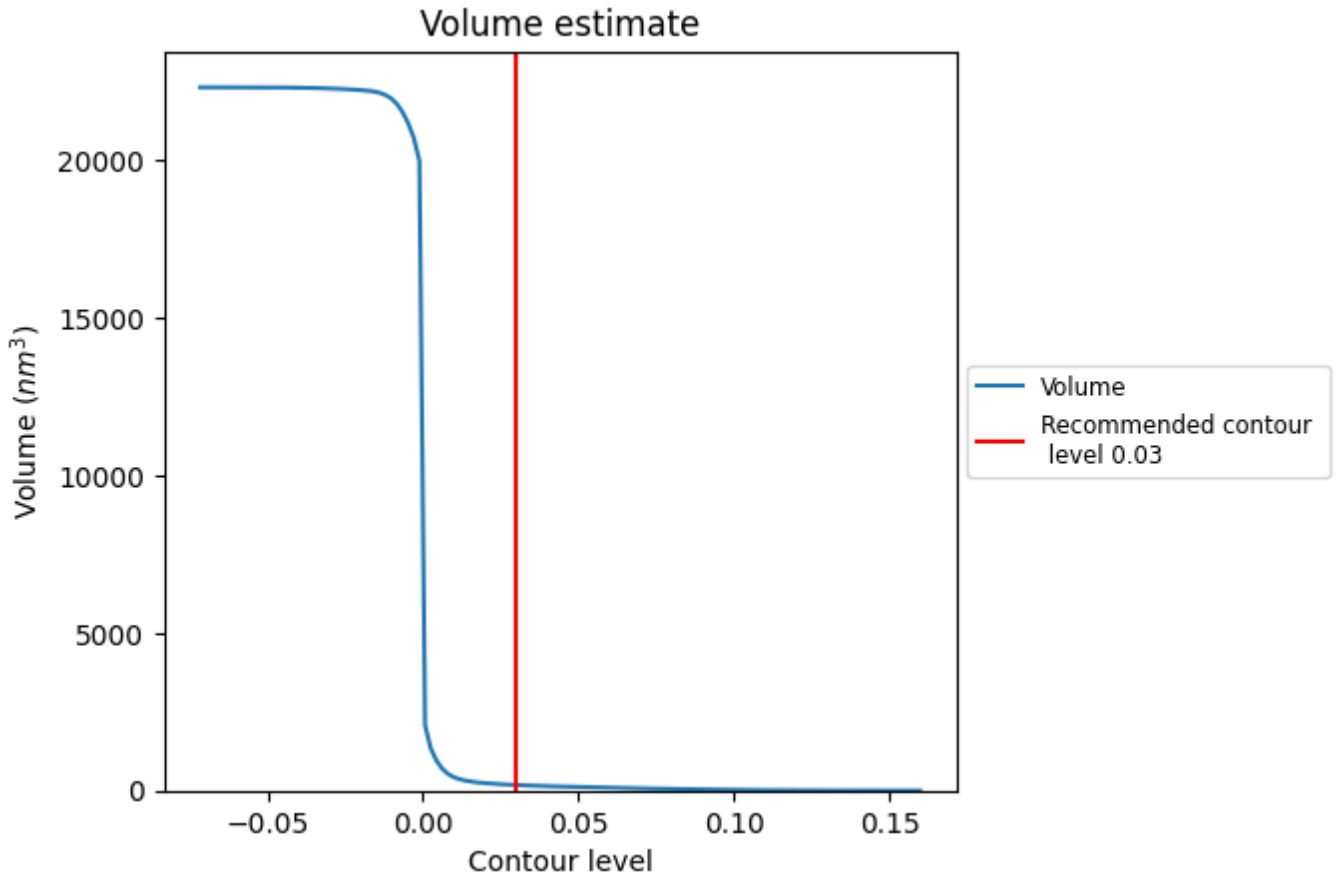
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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.

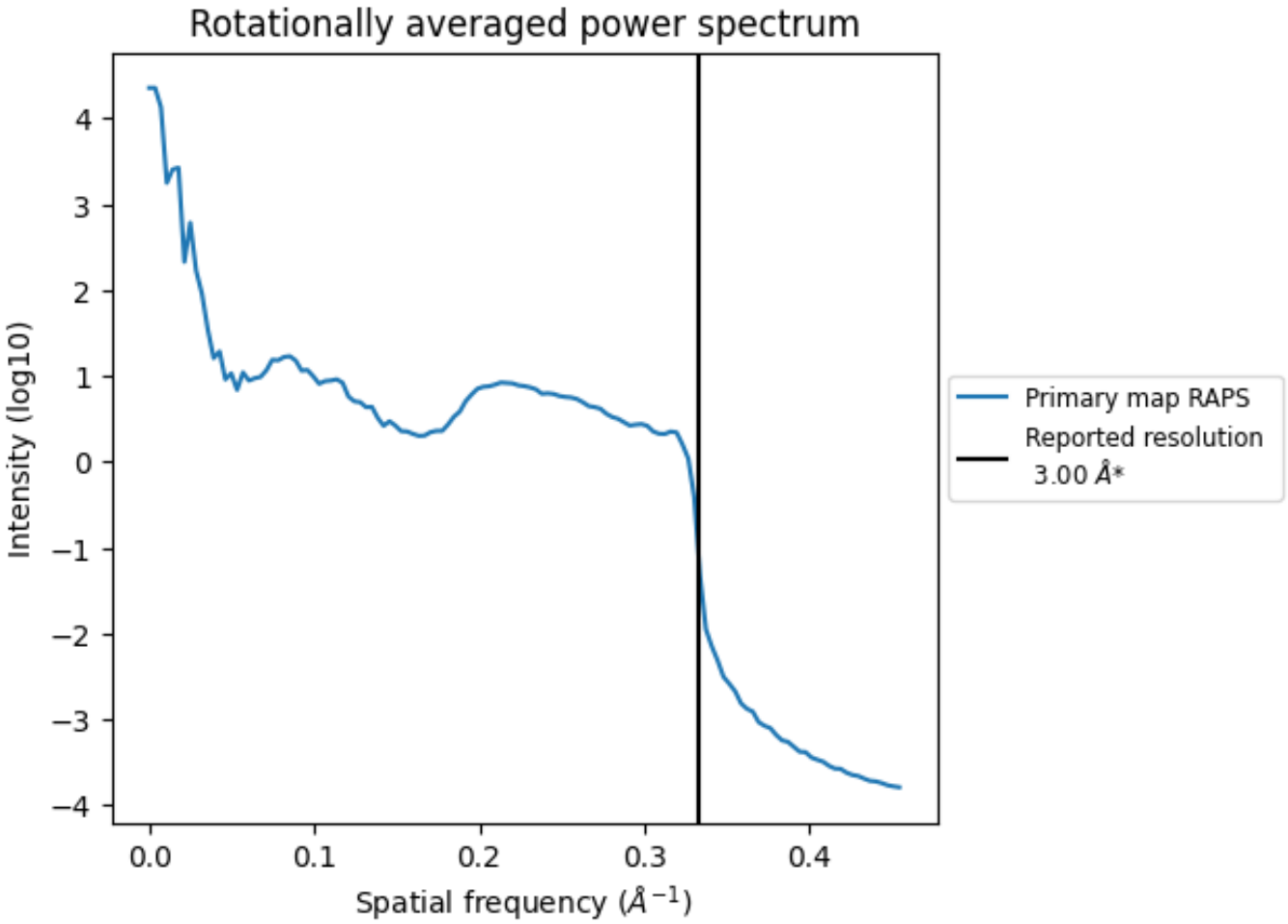
7.2 Volume estimate



The volume at the recommended contour level is 176 nm^3; this corresponds to an approximate mass of 159 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 0.333 Å^{-1}

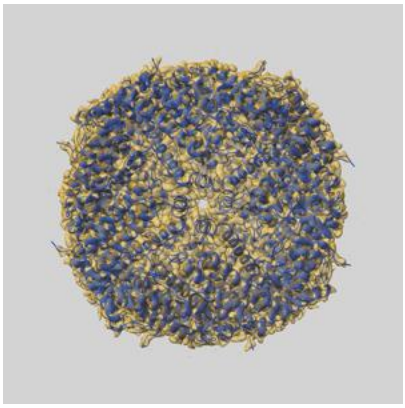
8 Fourier-Shell correlation (i)

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

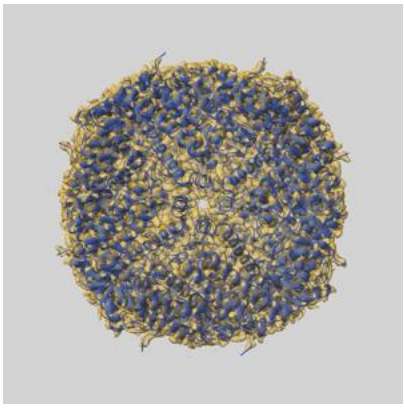
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-11265 and PDB model 6ZLG. Per-residue inclusion information can be found in section 3 on page 25.

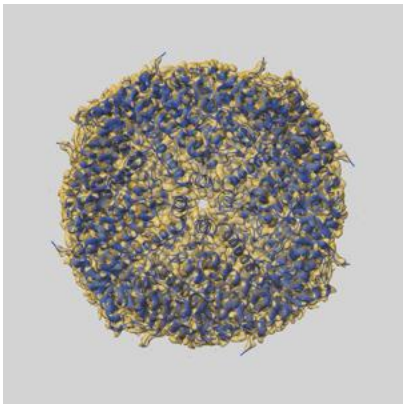
9.1 Map-model overlay



X



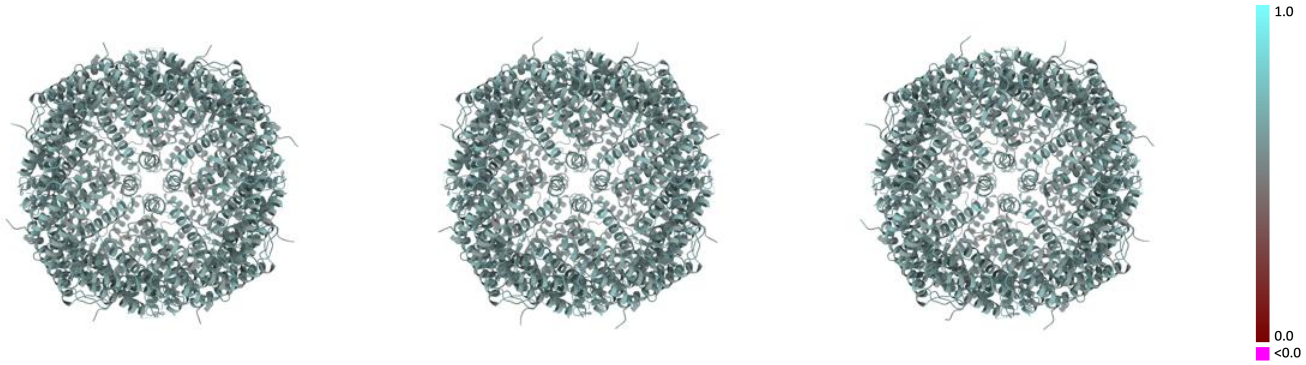
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03 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.

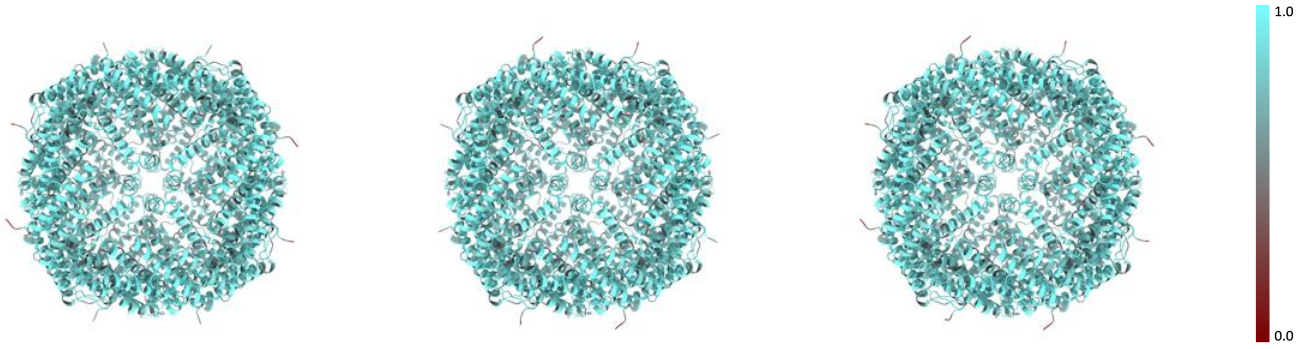
9.2 Q-score mapped to coordinate model (i)



X Y Z

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.

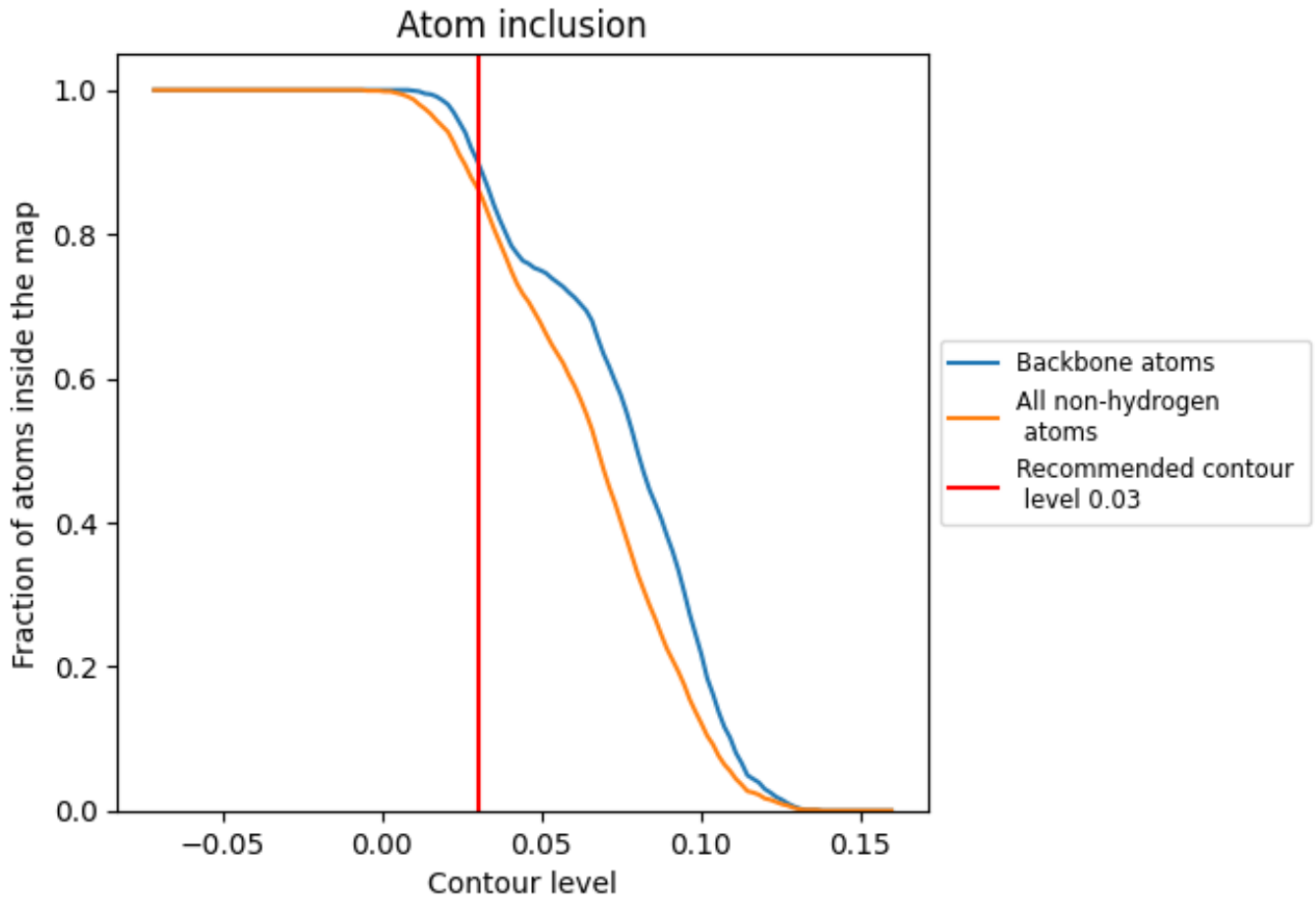
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

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 (0.03).

9.4 Atom inclusion (i)



At the recommended contour level, 90% of all backbone atoms, 86% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8630	0.5990
A	0.8620	0.5970
B	0.8590	0.5970
C	0.8620	0.6000
D	0.8660	0.5990
E	0.8600	0.5990
F	0.8650	0.5990
I	0.8670	0.5970
J	0.8630	0.6000
K	0.8600	0.6000
L	0.8640	0.6010
M	0.8630	0.5980
N	0.8640	0.5970
O	0.8670	0.5980
P	0.8620	0.5990
Q	0.8630	0.6000
R	0.8640	0.5990
S	0.8600	0.6000
T	0.8640	0.5960
U	0.8630	0.5980
V	0.8610	0.5990
W	0.8610	0.5970
X	0.8600	0.5970
Y	0.8580	0.6000
Z	0.8650	0.5990