



Full wwPDB EM Validation Report ⓘ

Mar 9, 2026 – 11:03 PM UTC

PDB ID : 5WK5 / pdb_00005wk5
EMDB ID : EMD-8855
Title : Cryo-EM structure of *P. aeruginosa* flagellar filaments A443V
Authors : Wang, F.; Postel, S.; Sundberg, E.J.; Egelman, E.H.
Deposited on : 2017-07-24
Resolution : 4.20 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.dev132
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics : 202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.49

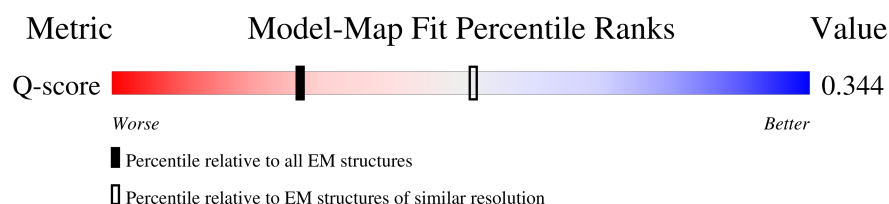
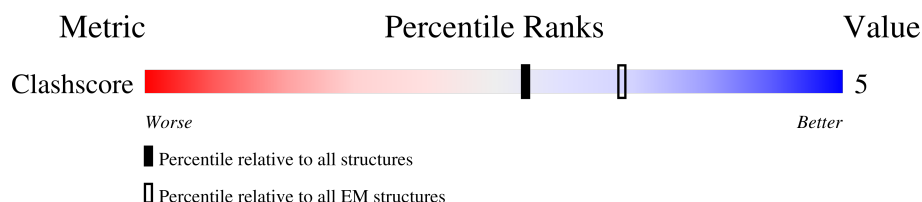
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

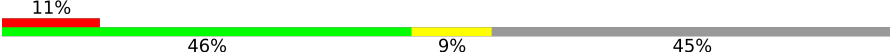
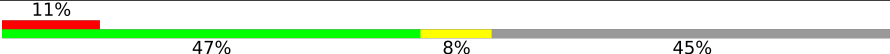
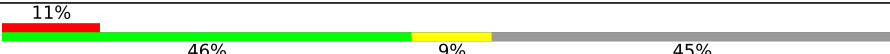
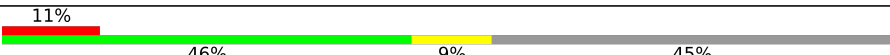
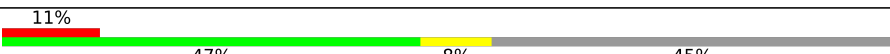
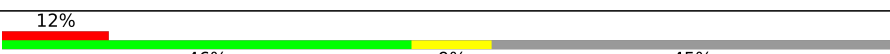
The reported resolution of this entry is 4.20 Å.

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)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Q-score	-	25397	5410 (3.70 - 4.70)

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

Mol	Chain	Length	Quality of chain
1	A	488	
1	B	488	
1	C	488	
1	D	488	
1	E	488	
1	F	488	

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Mol	Chain	Length	Quality of chain
1	G	488	11% 47% 8% 45%
1	H	488	12% 46% 9% 45%
1	I	488	11% 47% 8% 45%
1	J	488	11% 46% 9% 45%
1	K	488	11% 47% 8% 45%
1	L	488	11% 46% 9% 45%
1	M	488	11% 47% 8% 45%
1	N	488	11% 46% 9% 45%
1	O	488	12% 46% 9% 45%
1	P	488	12% 46% 9% 45%
1	Q	488	11% 47% 8% 45%
1	R	488	10% 46% 9% 45%
1	S	488	11% 47% 8% 45%
1	T	488	10% 47% 8% 45%
1	U	488	10% 47% 8% 45%
1	V	488	11% 47% 8% 45%
1	W	488	10% 48% 7% 45%
1	X	488	11% 47% 8% 45%
1	Y	488	10% 48% 7% 45%
1	Z	488	11% 48% 7% 45%
1	a	488	11% 48% 7% 45%
1	b	488	11% 48% 7% 45%
1	c	488	11% 48% 7% 45%
1	d	488	10% 47% 8% 45%
1	e	488	11% 47% 8% 45%

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Mol	Chain	Length	Quality of chain
1	f	488	
1	g	488	
1	h	488	
1	i	488	
1	j	488	
1	k	488	
1	l	488	
1	m	488	
1	n	488	
1	o	488	

2 Entry composition [i](#)

There is only 1 type of molecule in this entry. The entry contains 161786 atoms, of which 80606 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 B-type flagellin.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	B	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	C	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	D	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	E	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	F	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	G	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	H	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	I	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	J	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	K	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	L	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	M	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	N	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	O	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	P	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	Q	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	S	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	T	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	U	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	V	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	W	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	X	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	Y	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	Z	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	a	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	b	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	c	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	d	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	e	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	f	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	g	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	h	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	i	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	j	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	k	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0
1	l	269	Total 3946	C 1188	H 1966	N 371	O 421	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	m	269	Total	C	H	N	O	0	0
			3946	1188	1966	371	421		
1	n	269	Total	C	H	N	O	0	0
			3946	1188	1966	371	421		
1	o	269	Total	C	H	N	O	0	0
			3946	1188	1966	371	421		

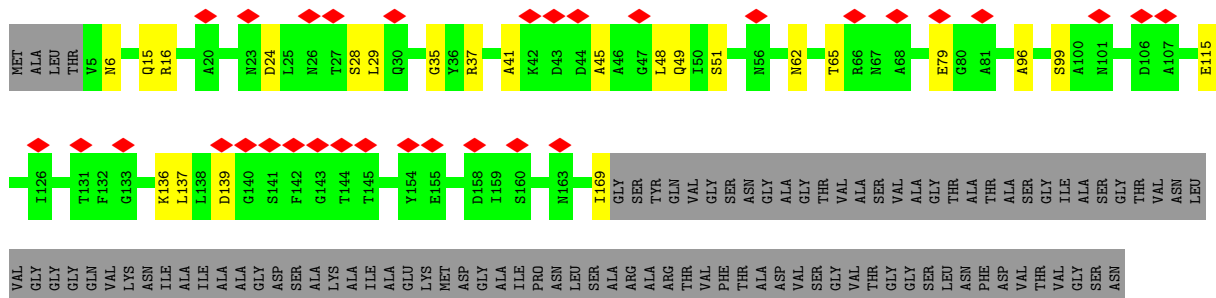
There are 41 discrepancies between the modelled and reference sequences:

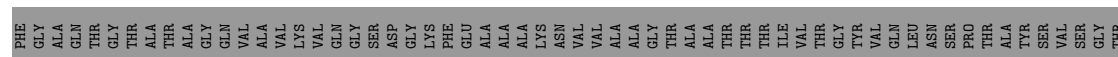
Chain	Residue	Modelled	Actual	Comment	Reference
A	443	VAL	ALA	engineered mutation	UNP P72151
B	443	VAL	ALA	engineered mutation	UNP P72151
C	443	VAL	ALA	engineered mutation	UNP P72151
D	443	VAL	ALA	engineered mutation	UNP P72151
E	443	VAL	ALA	engineered mutation	UNP P72151
F	443	VAL	ALA	engineered mutation	UNP P72151
G	443	VAL	ALA	engineered mutation	UNP P72151
H	443	VAL	ALA	engineered mutation	UNP P72151
I	443	VAL	ALA	engineered mutation	UNP P72151
J	443	VAL	ALA	engineered mutation	UNP P72151
K	443	VAL	ALA	engineered mutation	UNP P72151
L	443	VAL	ALA	engineered mutation	UNP P72151
M	443	VAL	ALA	engineered mutation	UNP P72151
N	443	VAL	ALA	engineered mutation	UNP P72151
O	443	VAL	ALA	engineered mutation	UNP P72151
P	443	VAL	ALA	engineered mutation	UNP P72151
Q	443	VAL	ALA	engineered mutation	UNP P72151
R	443	VAL	ALA	engineered mutation	UNP P72151
S	443	VAL	ALA	engineered mutation	UNP P72151
T	443	VAL	ALA	engineered mutation	UNP P72151
U	443	VAL	ALA	engineered mutation	UNP P72151
V	443	VAL	ALA	engineered mutation	UNP P72151
W	443	VAL	ALA	engineered mutation	UNP P72151
X	443	VAL	ALA	engineered mutation	UNP P72151
Y	443	VAL	ALA	engineered mutation	UNP P72151
Z	443	VAL	ALA	engineered mutation	UNP P72151
a	443	VAL	ALA	engineered mutation	UNP P72151
b	443	VAL	ALA	engineered mutation	UNP P72151
c	443	VAL	ALA	engineered mutation	UNP P72151
d	443	VAL	ALA	engineered mutation	UNP P72151
e	443	VAL	ALA	engineered mutation	UNP P72151
f	443	VAL	ALA	engineered mutation	UNP P72151

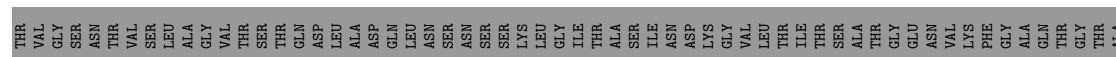
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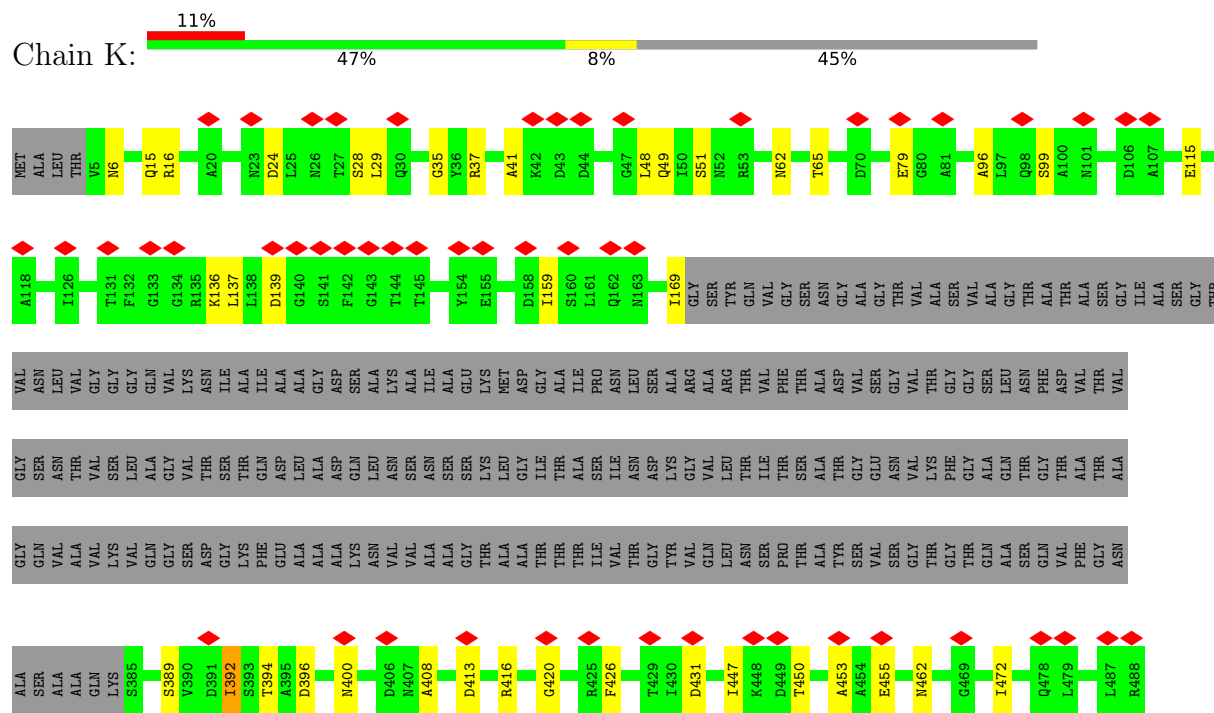
Chain	Residue	Modelled	Actual	Comment	Reference
g	443	VAL	ALA	engineered mutation	UNP P72151
h	443	VAL	ALA	engineered mutation	UNP P72151
i	443	VAL	ALA	engineered mutation	UNP P72151
j	443	VAL	ALA	engineered mutation	UNP P72151
k	443	VAL	ALA	engineered mutation	UNP P72151
l	443	VAL	ALA	engineered mutation	UNP P72151
m	443	VAL	ALA	engineered mutation	UNP P72151
n	443	VAL	ALA	engineered mutation	UNP P72151
o	443	VAL	ALA	engineered mutation	UNP P72151



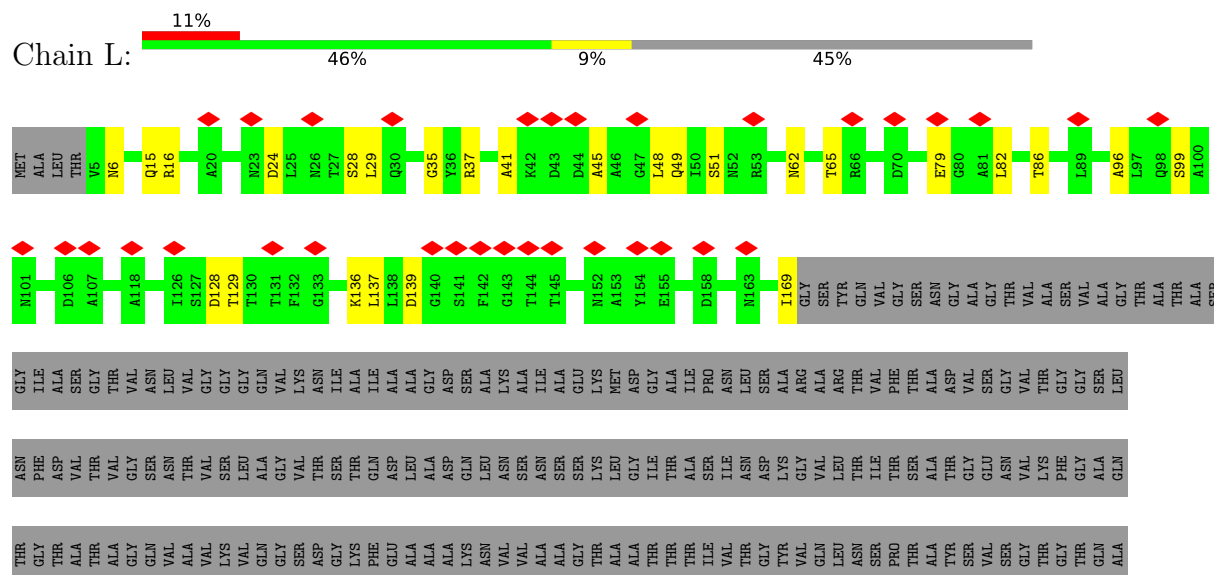


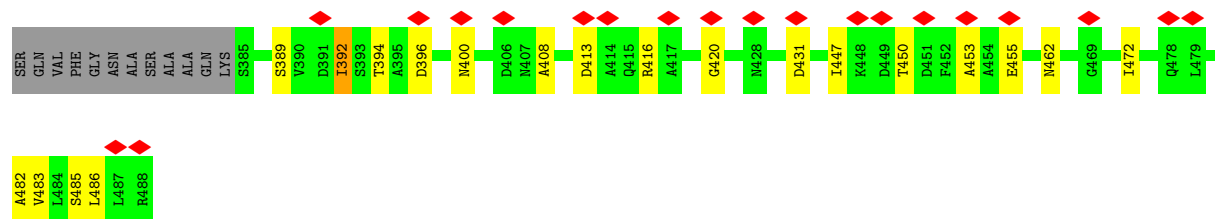


- Molecule 1: B-type flagellin

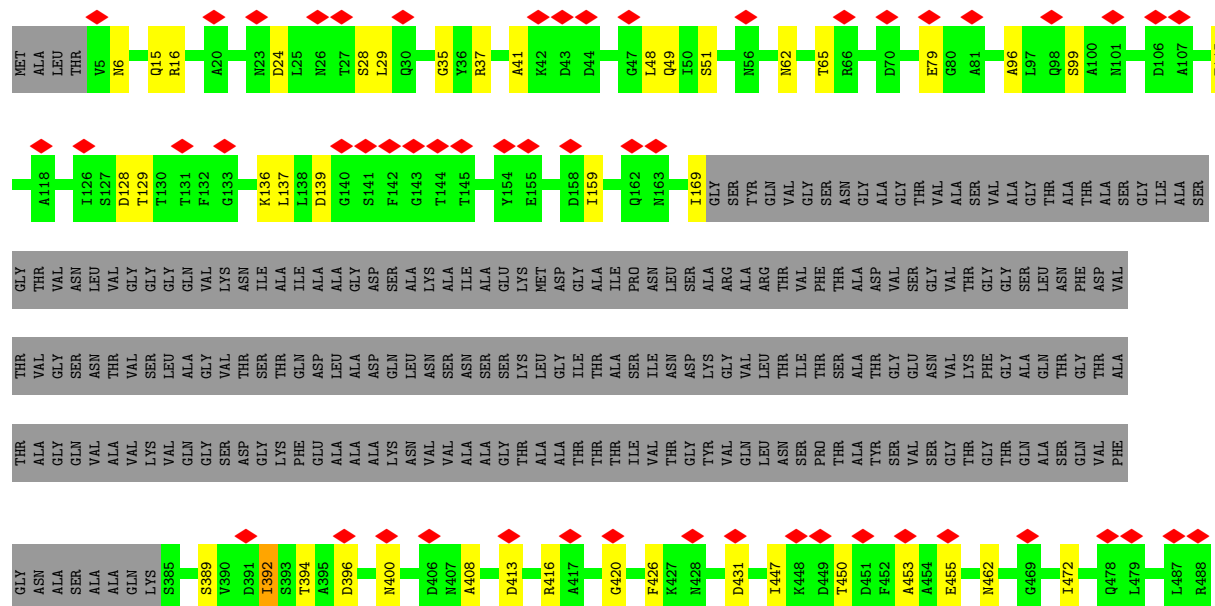


- Molecule 1: B-type flagellin

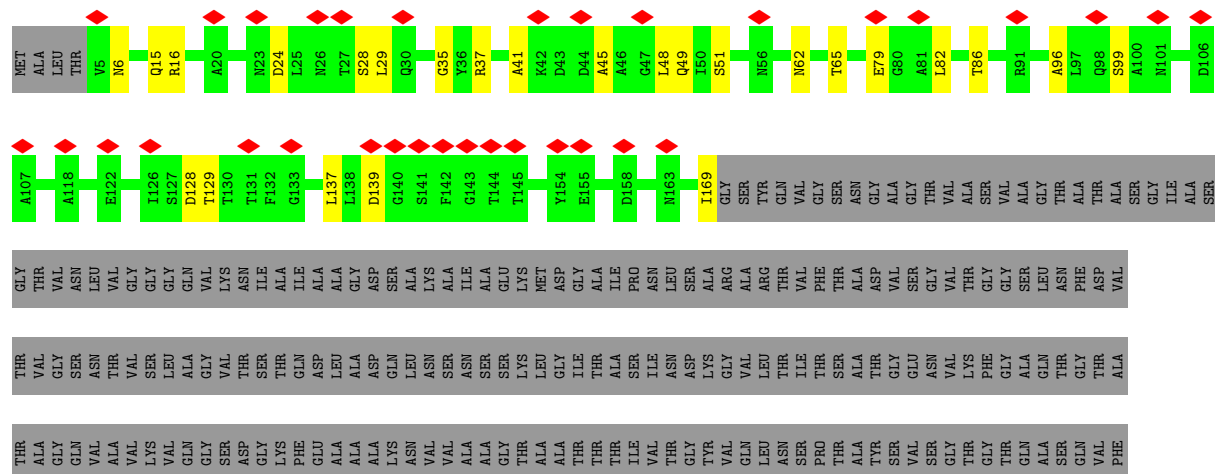


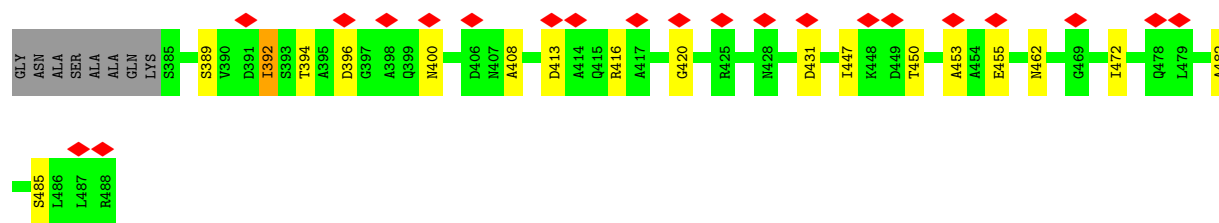


• Molecule 1: B-type flagellin

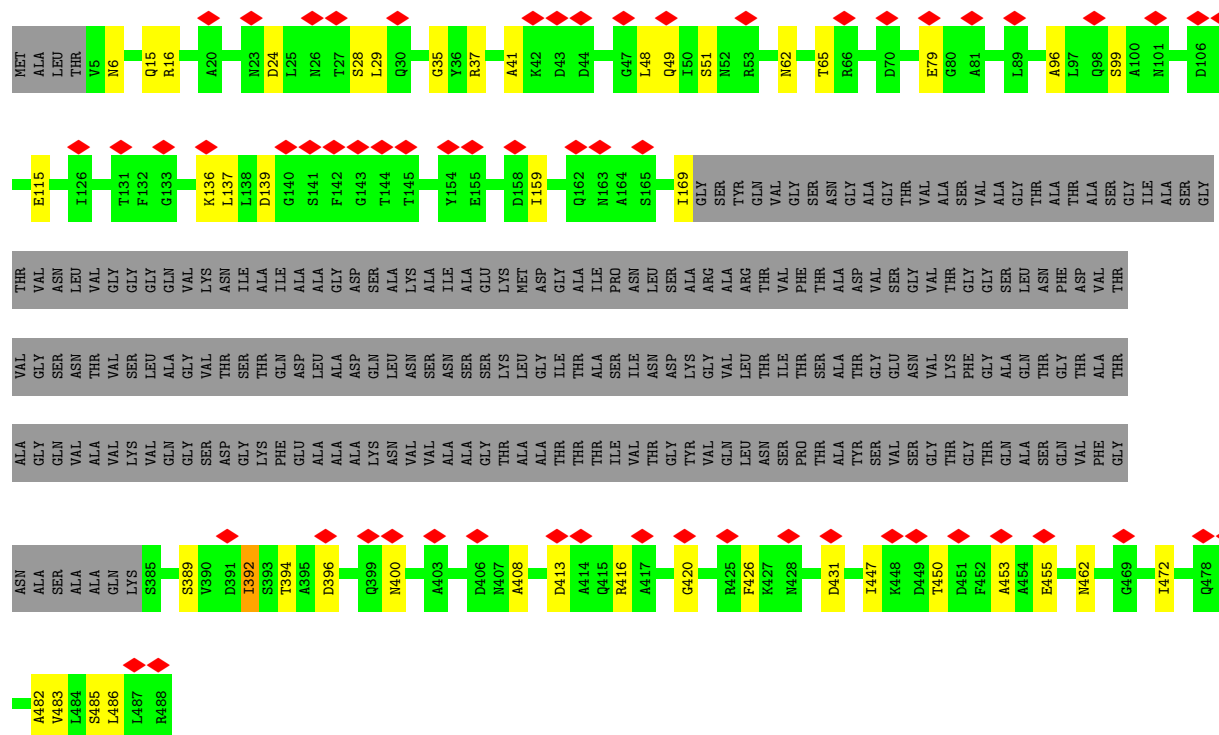


• Molecule 1: B-type flagellin

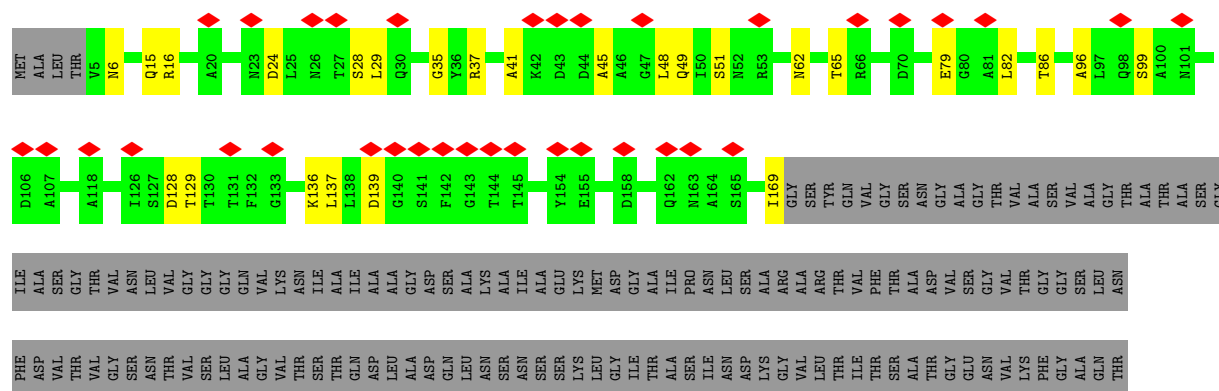




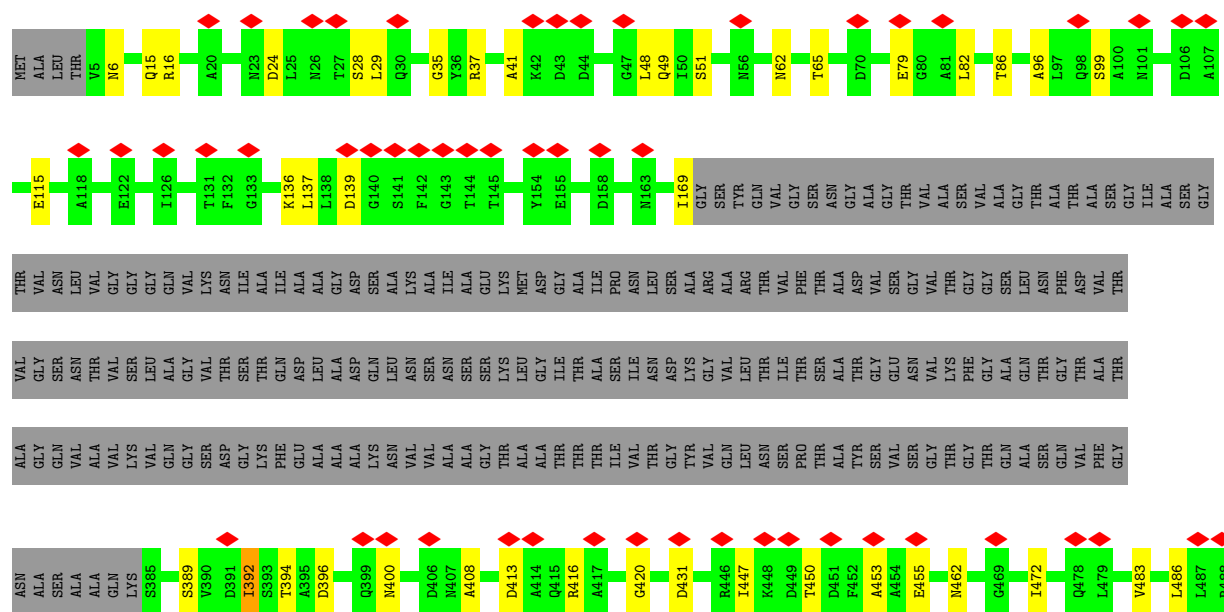
• Molecule 1: B-type flagellin



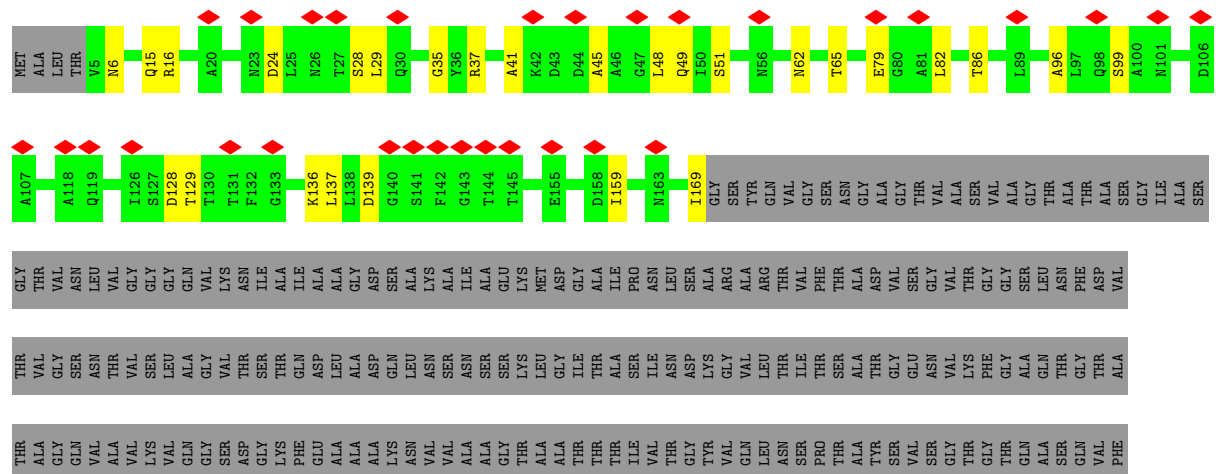
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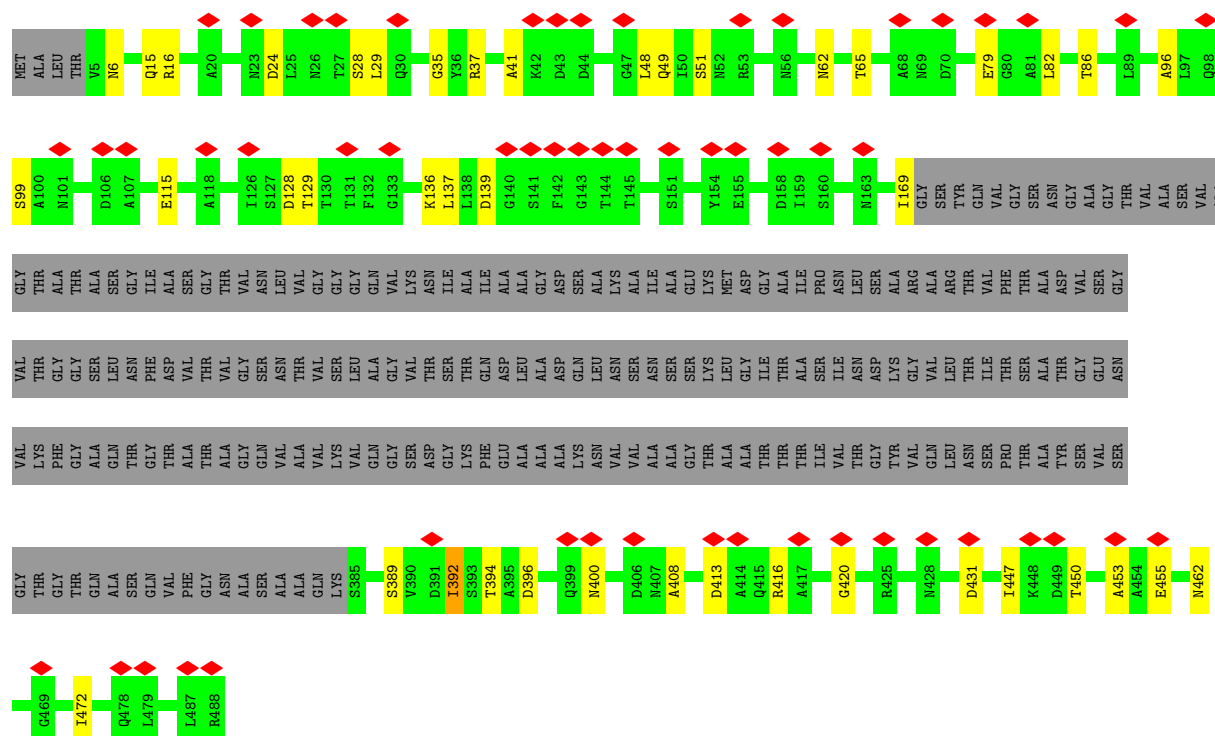
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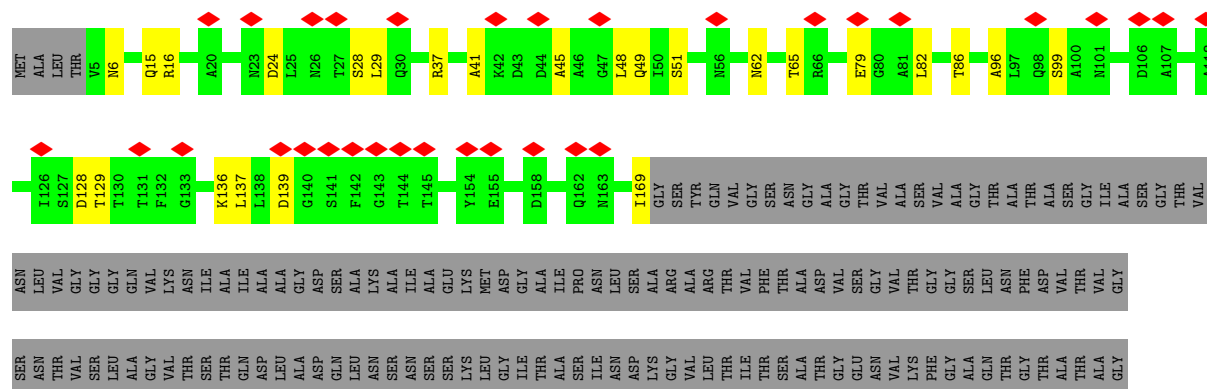
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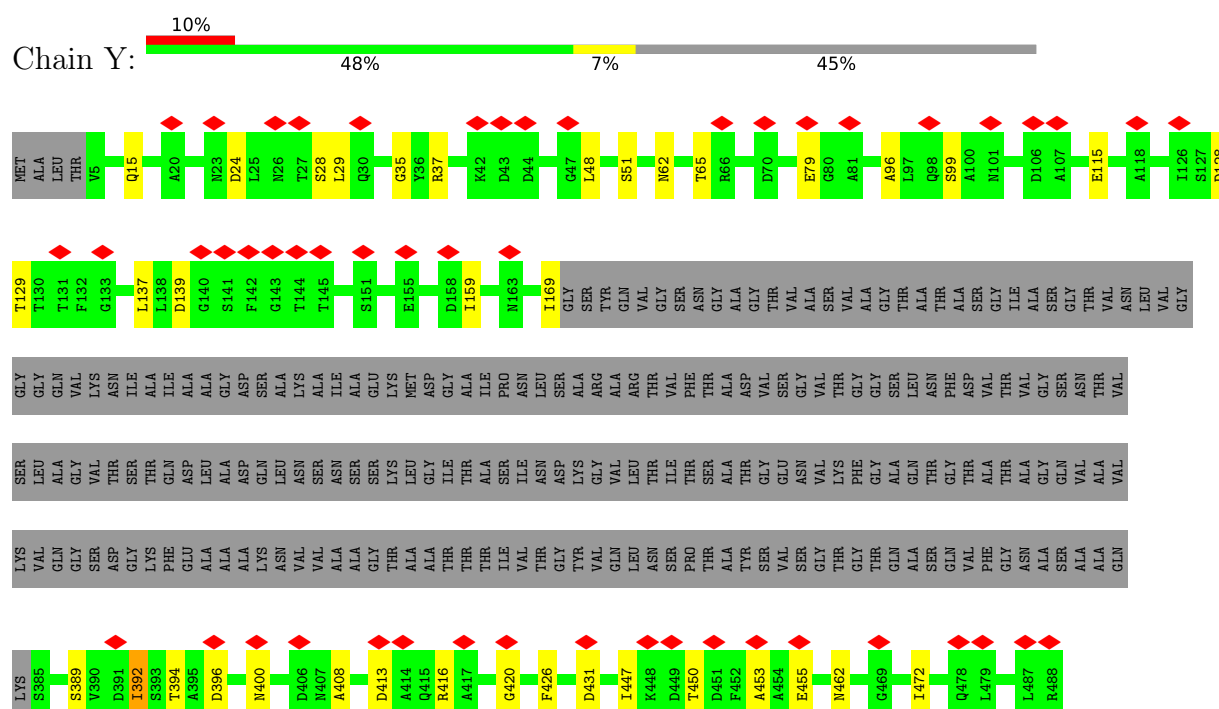


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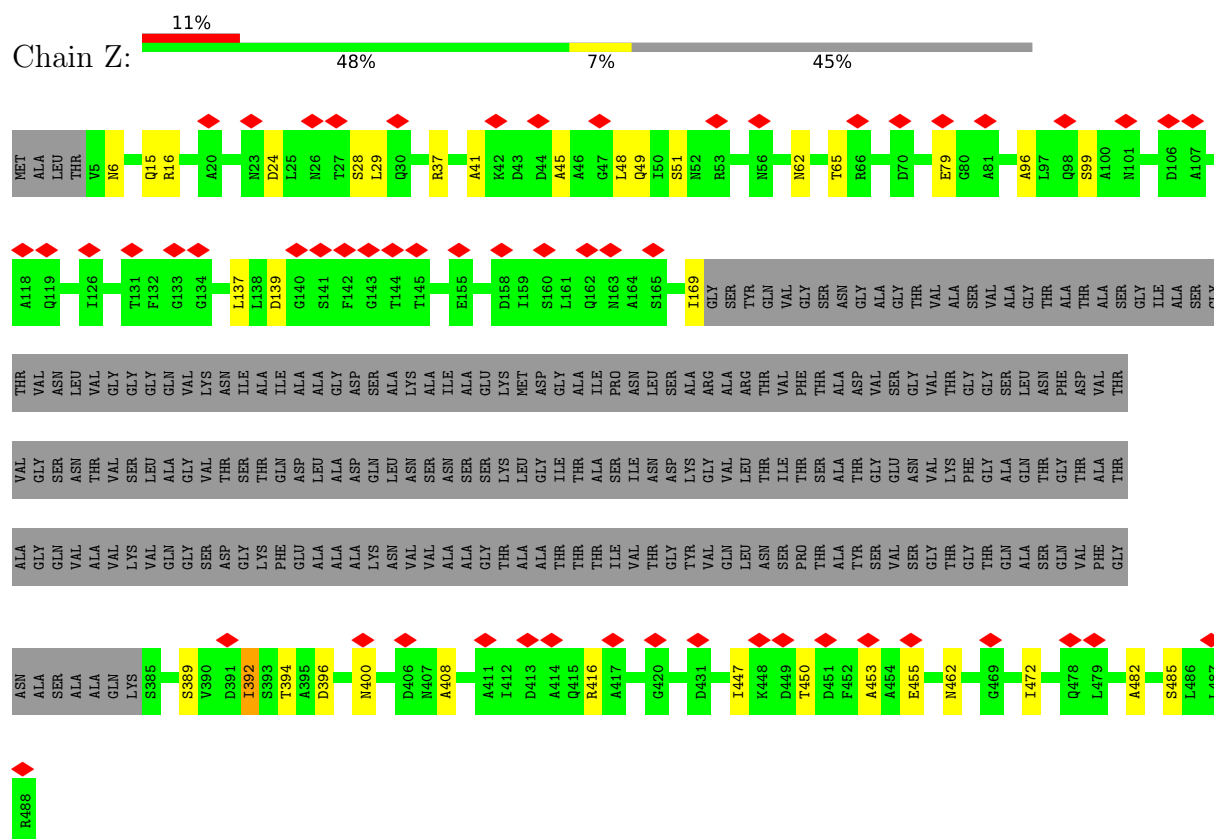


- Molecule 1: B-type flagellin





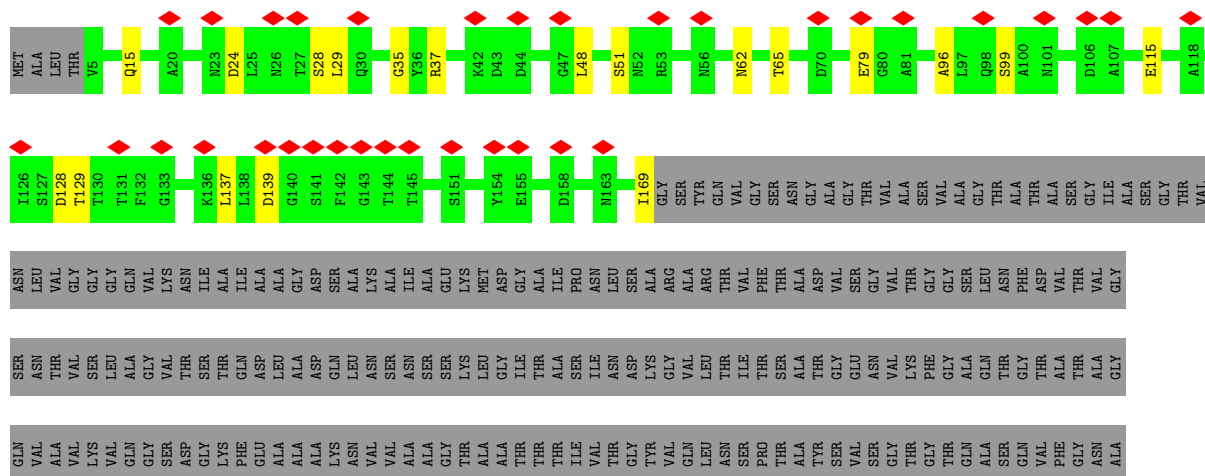
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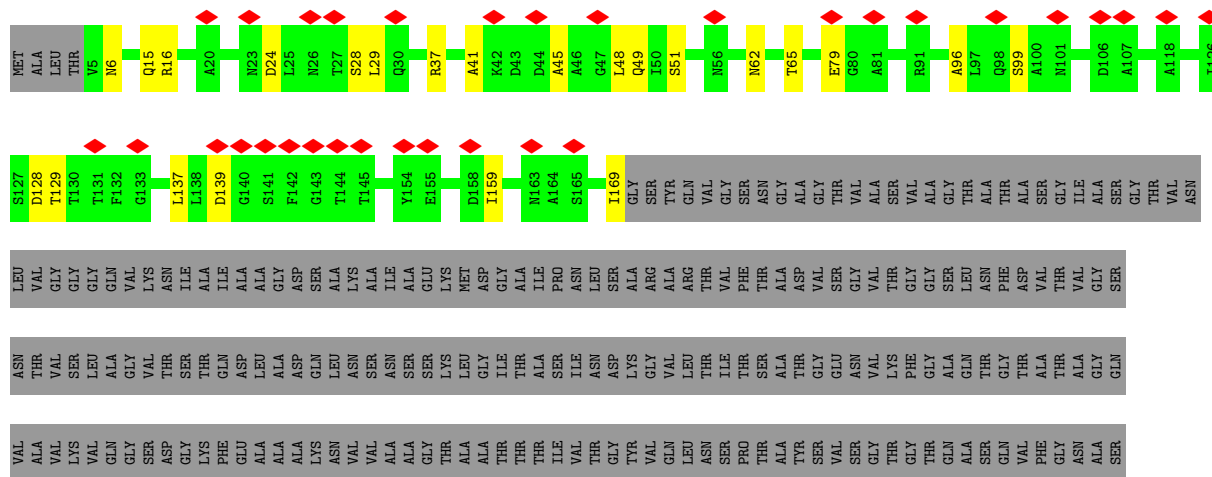
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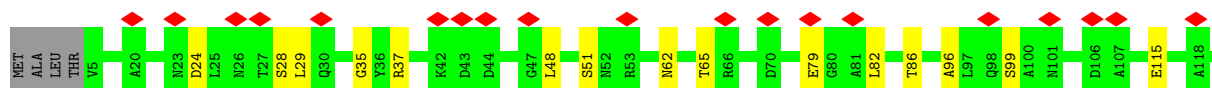




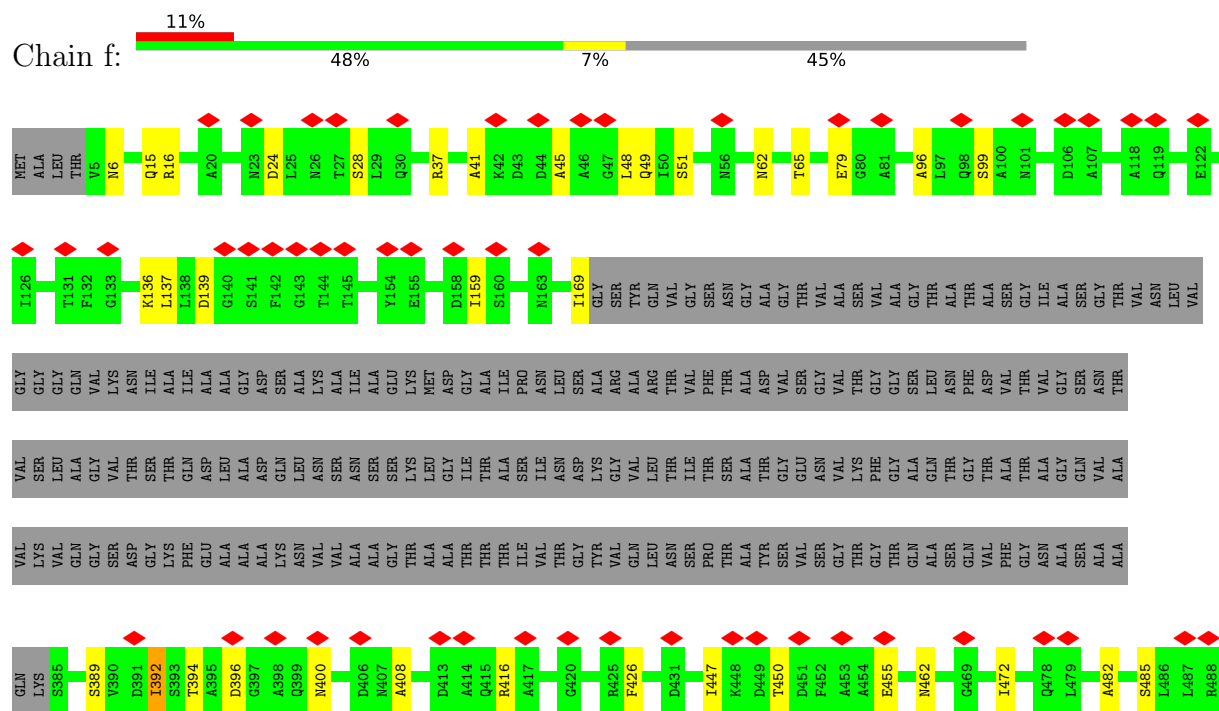
• Molecule 1: B-type flagellin



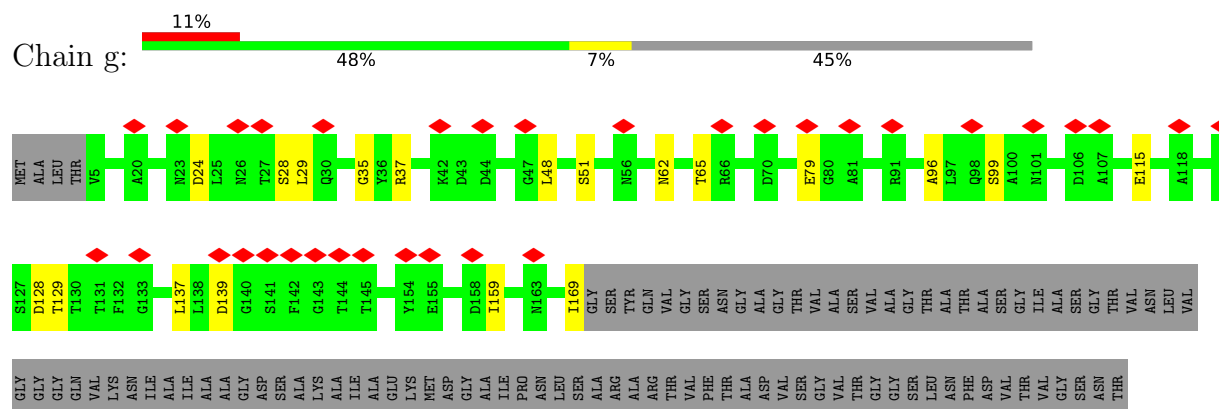
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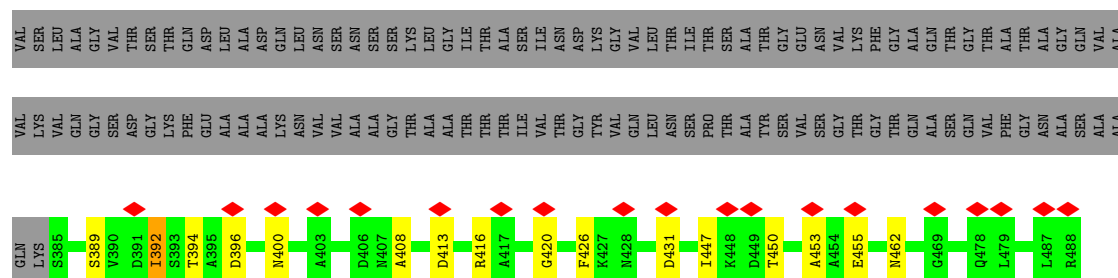


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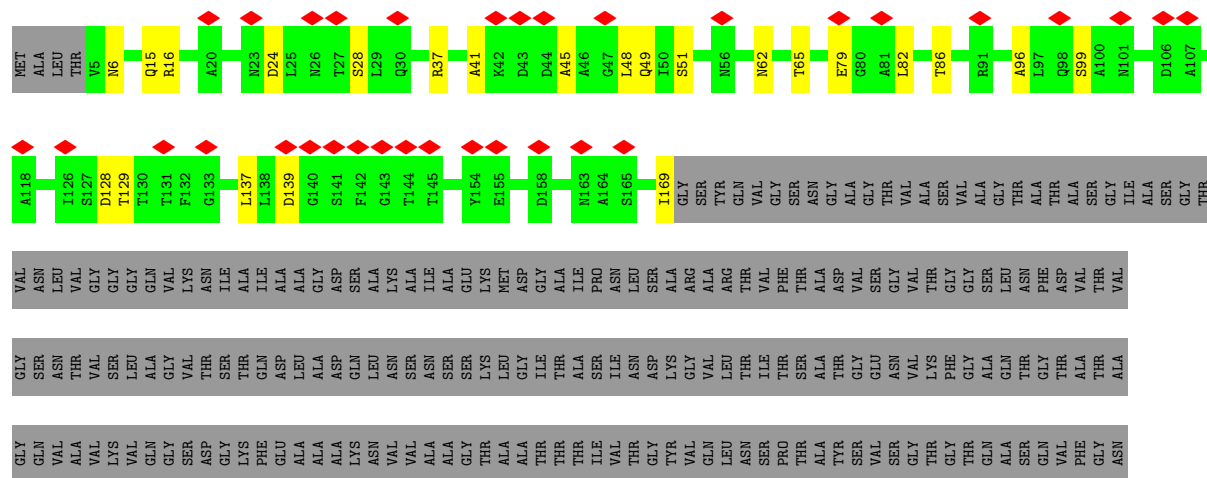


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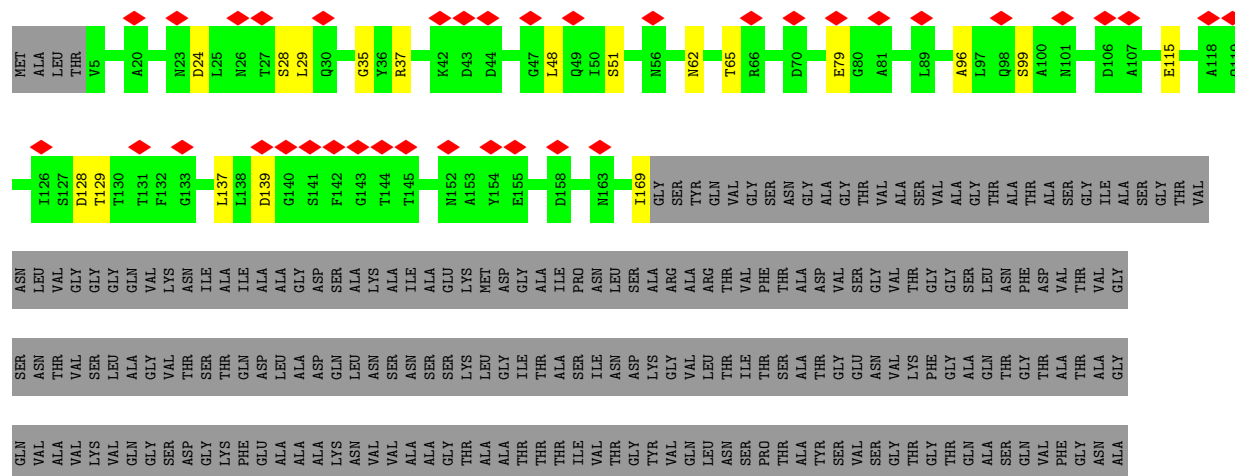


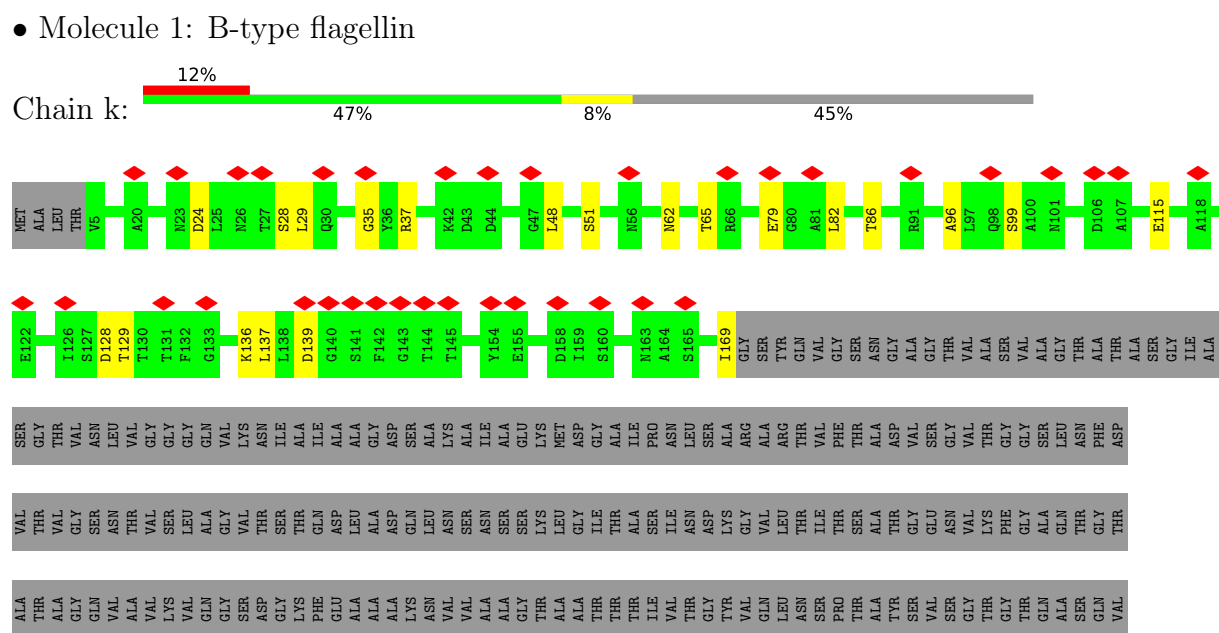


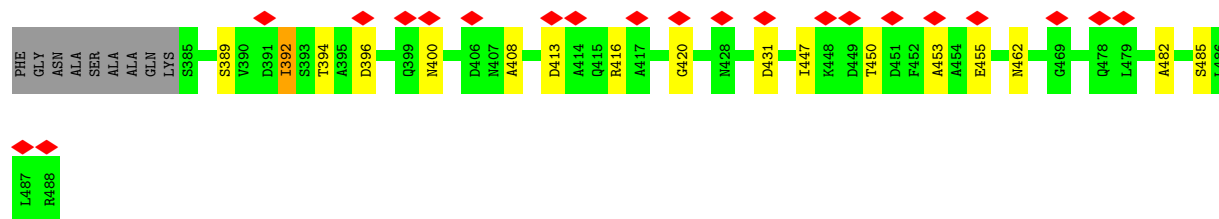
- Molecule 1: B-type flagellin



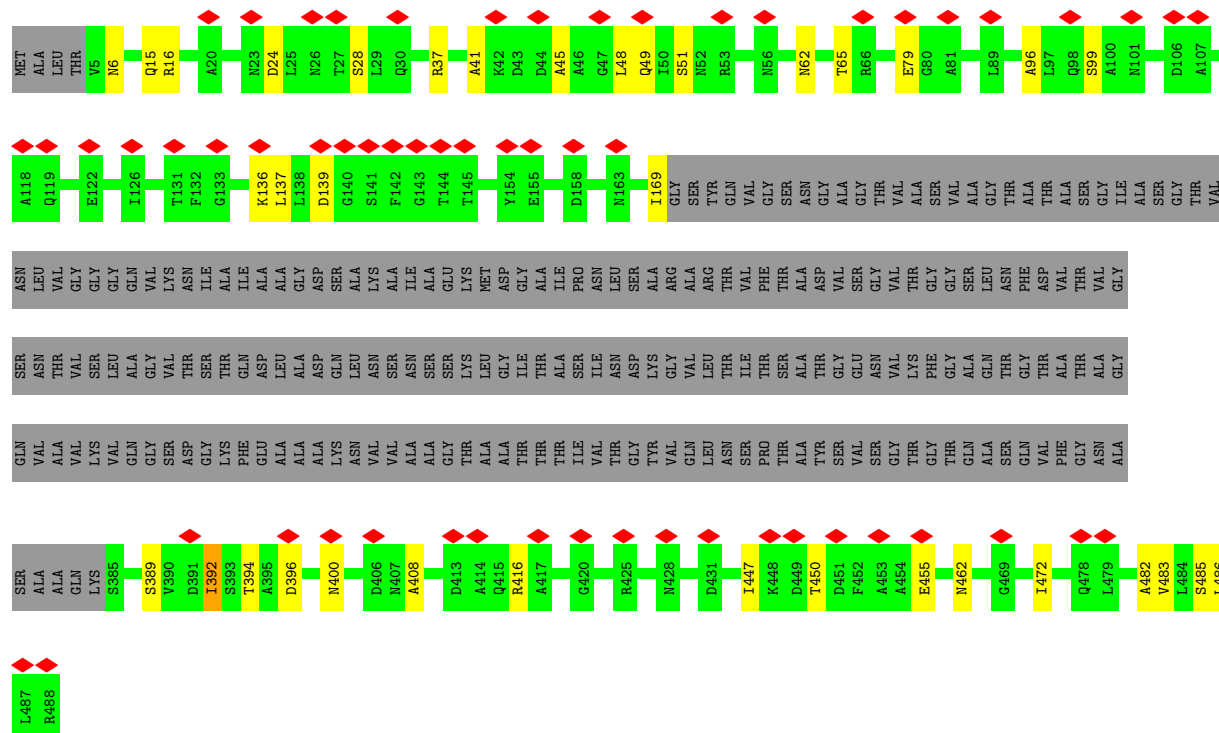
- Molecule 1: B-type flagellin



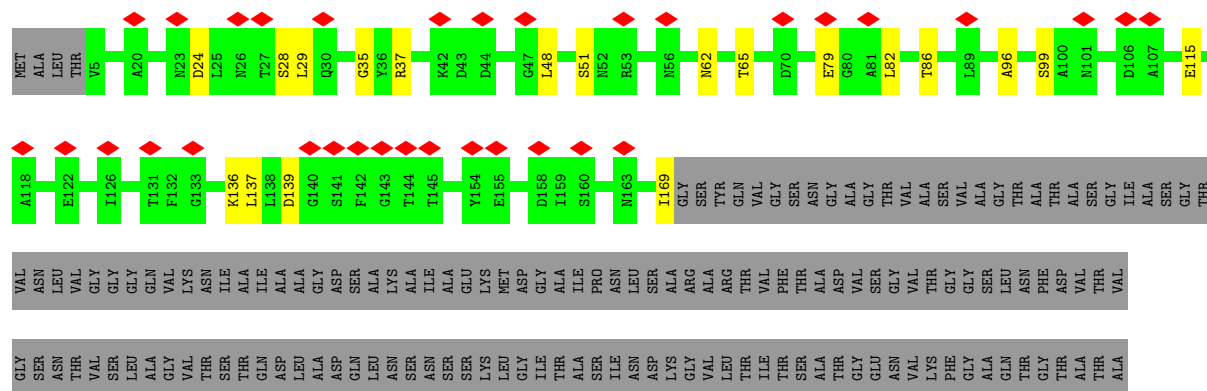


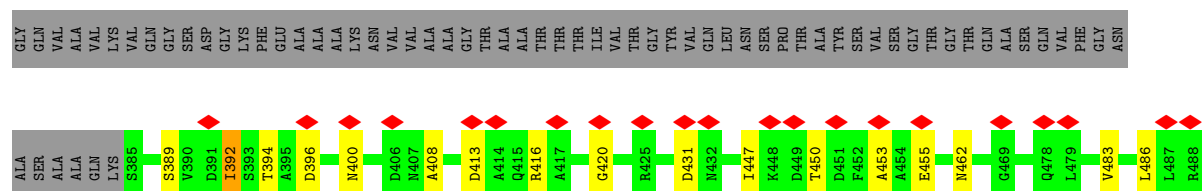


• Molecule 1: B-type flagellin

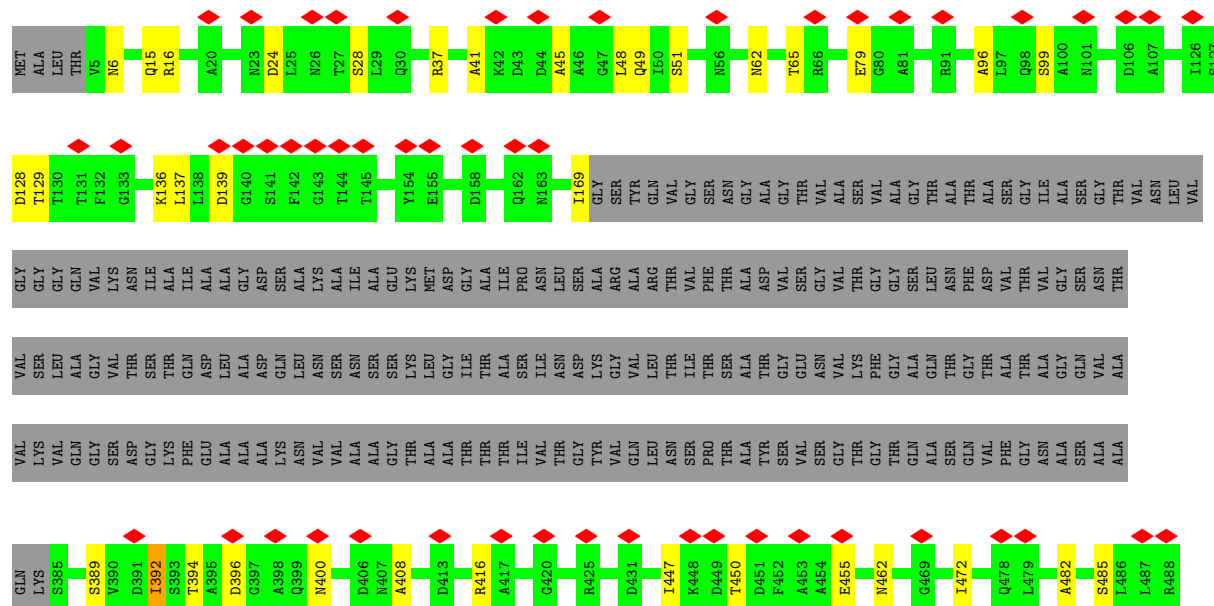


• Molecule 1: B-type flagellin

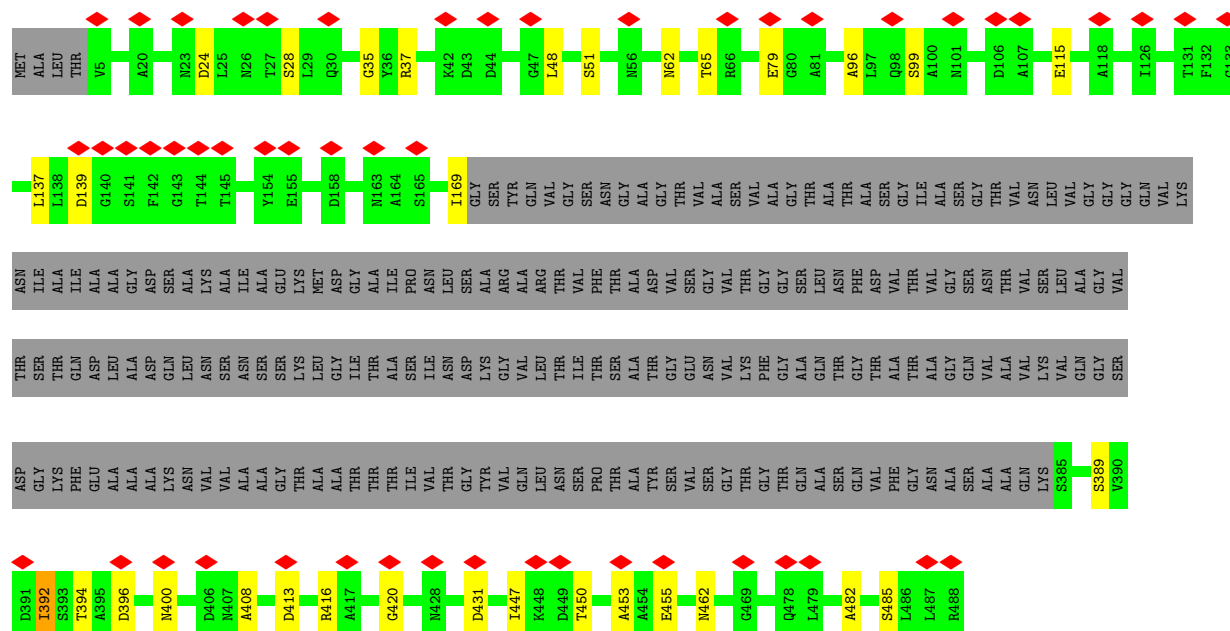




• Molecule 1: B-type flagellin



• Molecule 1: B-type flagellin



4 Experimental information

Property	Value	Source
EM reconstruction method	HELICAL	Depositor
Imposed symmetry	HELICAL, twist=65.75°, rise=4.61 Å, axial sym=C1	Depositor
Number of segments used	102119	Depositor
Resolution determination method	OTHER	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{Å}^2$)	20	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	FEI FALCON II (4k x 4k)	Depositor
Maximum map value	2.508	Depositor
Minimum map value	-1.565	Depositor
Average map value	0.070	Depositor
Map value standard deviation	0.365	Depositor
Recommended contour level	0.76	Depositor
Map size (Å)	230.99998, 230.99998, 1050.0	wwPDB
Map dimensions	220, 220, 1000	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.05, 1.05, 1.05	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	0.44	0/1986	0.63	0/2693
1	B	0.44	0/1986	0.63	0/2693
1	C	0.44	0/1986	0.63	0/2693
1	D	0.44	0/1986	0.63	0/2693
1	E	0.44	0/1986	0.63	0/2693
1	F	0.44	0/1986	0.63	0/2693
1	G	0.44	0/1986	0.63	0/2693
1	H	0.44	0/1986	0.63	0/2693
1	I	0.44	0/1986	0.63	0/2693
1	J	0.44	0/1986	0.63	0/2693
1	K	0.44	0/1986	0.63	0/2693
1	L	0.44	0/1986	0.63	0/2693
1	M	0.44	0/1986	0.63	0/2693
1	N	0.44	0/1986	0.63	0/2693
1	O	0.44	0/1986	0.63	0/2693
1	P	0.44	0/1986	0.63	0/2693
1	Q	0.44	0/1986	0.63	0/2693
1	R	0.44	0/1986	0.63	0/2693
1	S	0.44	0/1986	0.63	0/2693
1	T	0.44	0/1986	0.63	0/2693
1	U	0.44	0/1986	0.63	0/2693
1	V	0.44	0/1986	0.63	0/2693
1	W	0.44	0/1986	0.63	0/2693
1	X	0.44	0/1986	0.63	0/2693
1	Y	0.44	0/1986	0.63	0/2693
1	Z	0.44	0/1986	0.63	0/2693
1	a	0.44	0/1986	0.63	0/2693
1	b	0.44	0/1986	0.63	0/2693
1	c	0.44	0/1986	0.63	0/2693
1	d	0.44	0/1986	0.63	0/2693
1	e	0.44	0/1986	0.63	0/2693
1	f	0.44	0/1986	0.63	0/2693
1	g	0.44	0/1986	0.63	0/2693
1	h	0.44	0/1986	0.63	0/2693

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	i	0.44	0/1986	0.63	0/2693
1	j	0.44	0/1986	0.63	0/2693
1	k	0.44	0/1986	0.63	0/2693
1	l	0.44	0/1986	0.63	0/2693
1	m	0.44	0/1986	0.63	0/2693
1	n	0.44	0/1986	0.63	0/2693
1	o	0.44	0/1986	0.63	0/2693
All	All	0.44	0/81426	0.63	0/110413

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	3
1	B	0	3
1	C	0	3
1	D	0	3
1	E	0	3
1	F	0	3
1	G	0	3
1	H	0	3
1	I	0	3
1	J	0	3
1	K	0	3
1	L	0	3
1	M	0	3
1	N	0	3
1	O	0	3
1	P	0	3
1	Q	0	3
1	R	0	3
1	S	0	3
1	T	0	3
1	U	0	3
1	V	0	3
1	W	0	3
1	X	0	3
1	Y	0	3
1	Z	0	3
1	a	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	b	0	3
1	c	0	3
1	d	0	3
1	e	0	3
1	f	0	3
1	g	0	3
1	h	0	3
1	i	0	3
1	j	0	3
1	k	0	3
1	l	0	3
1	m	0	3
1	n	0	3
1	o	0	3
All	All	0	123

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (123) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	137	LEU	Peptide
1	A	389	SER	Peptide
1	A	392	ILE	Peptide
1	B	137	LEU	Peptide
1	B	389	SER	Peptide
1	B	392	ILE	Peptide
1	C	137	LEU	Peptide
1	C	389	SER	Peptide
1	C	392	ILE	Peptide
1	D	137	LEU	Peptide
1	D	389	SER	Peptide
1	D	392	ILE	Peptide
1	E	137	LEU	Peptide
1	E	389	SER	Peptide
1	E	392	ILE	Peptide
1	F	137	LEU	Peptide
1	F	389	SER	Peptide
1	F	392	ILE	Peptide
1	G	137	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	G	389	SER	Peptide
1	G	392	ILE	Peptide
1	H	137	LEU	Peptide
1	H	389	SER	Peptide
1	H	392	ILE	Peptide
1	I	137	LEU	Peptide
1	I	389	SER	Peptide
1	I	392	ILE	Peptide
1	J	137	LEU	Peptide
1	J	389	SER	Peptide
1	J	392	ILE	Peptide
1	K	137	LEU	Peptide
1	K	389	SER	Peptide
1	K	392	ILE	Peptide
1	L	137	LEU	Peptide
1	L	389	SER	Peptide
1	L	392	ILE	Peptide
1	M	137	LEU	Peptide
1	M	389	SER	Peptide
1	M	392	ILE	Peptide
1	N	137	LEU	Peptide
1	N	389	SER	Peptide
1	N	392	ILE	Peptide
1	O	137	LEU	Peptide
1	O	389	SER	Peptide
1	O	392	ILE	Peptide
1	P	137	LEU	Peptide
1	P	389	SER	Peptide
1	P	392	ILE	Peptide
1	Q	137	LEU	Peptide
1	Q	389	SER	Peptide
1	Q	392	ILE	Peptide
1	R	137	LEU	Peptide
1	R	389	SER	Peptide
1	R	392	ILE	Peptide
1	S	137	LEU	Peptide
1	S	389	SER	Peptide
1	S	392	ILE	Peptide
1	T	137	LEU	Peptide
1	T	389	SER	Peptide
1	T	392	ILE	Peptide
1	U	137	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	U	389	SER	Peptide
1	U	392	ILE	Peptide
1	V	137	LEU	Peptide
1	V	389	SER	Peptide
1	V	392	ILE	Peptide
1	W	137	LEU	Peptide
1	W	389	SER	Peptide
1	W	392	ILE	Peptide
1	X	137	LEU	Peptide
1	X	389	SER	Peptide
1	X	392	ILE	Peptide
1	Y	137	LEU	Peptide
1	Y	389	SER	Peptide
1	Y	392	ILE	Peptide
1	Z	137	LEU	Peptide
1	Z	389	SER	Peptide
1	Z	392	ILE	Peptide
1	a	137	LEU	Peptide
1	a	389	SER	Peptide
1	a	392	ILE	Peptide
1	b	137	LEU	Peptide
1	b	389	SER	Peptide
1	b	392	ILE	Peptide
1	c	137	LEU	Peptide
1	c	389	SER	Peptide
1	c	392	ILE	Peptide
1	d	137	LEU	Peptide
1	d	389	SER	Peptide
1	d	392	ILE	Peptide
1	e	137	LEU	Peptide
1	e	389	SER	Peptide
1	e	392	ILE	Peptide
1	f	137	LEU	Peptide
1	f	389	SER	Peptide
1	f	392	ILE	Peptide
1	g	137	LEU	Peptide
1	g	389	SER	Peptide
1	g	392	ILE	Peptide
1	h	137	LEU	Peptide
1	h	389	SER	Peptide
1	h	392	ILE	Peptide
1	i	137	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	i	389	SER	Peptide
1	i	392	ILE	Peptide
1	j	137	LEU	Peptide
1	j	389	SER	Peptide
1	j	392	ILE	Peptide
1	k	137	LEU	Peptide
1	k	389	SER	Peptide
1	k	392	ILE	Peptide
1	l	137	LEU	Peptide
1	l	389	SER	Peptide
1	l	392	ILE	Peptide
1	m	137	LEU	Peptide
1	m	389	SER	Peptide
1	m	392	ILE	Peptide
1	n	137	LEU	Peptide
1	n	389	SER	Peptide
1	n	392	ILE	Peptide
1	o	137	LEU	Peptide
1	o	389	SER	Peptide
1	o	392	ILE	Peptide

5.2 Too-close contacts

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	1980	1966	1966	29	0
1	B	1980	1966	1966	27	0
1	C	1980	1966	1966	30	0
1	D	1980	1966	1966	29	0
1	E	1980	1966	1966	27	0
1	F	1980	1966	1966	29	0
1	G	1980	1966	1966	27	0
1	H	1980	1966	1966	30	0
1	I	1980	1966	1966	27	0
1	J	1980	1966	1966	29	0
1	K	1980	1966	1966	26	0
1	L	1980	1966	1966	30	0
1	M	1980	1966	1966	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	N	1980	1966	1966	28	0
1	O	1980	1966	1966	29	0
1	P	1980	1966	1966	29	0
1	Q	1980	1966	1966	28	0
1	R	1980	1966	1966	30	0
1	S	1980	1966	1966	28	0
1	T	1980	1966	1966	24	0
1	U	1980	1966	1966	23	0
1	V	1980	1966	1966	26	0
1	W	1980	1966	1966	22	0
1	X	1980	1966	1966	24	0
1	Y	1980	1966	1966	23	0
1	Z	1980	1966	1966	22	0
1	a	1980	1966	1966	23	0
1	b	1980	1966	1966	23	0
1	c	1980	1966	1966	22	0
1	d	1980	1966	1966	23	0
1	e	1980	1966	1966	23	0
1	f	1980	1966	1966	22	0
1	g	1980	1966	1966	21	0
1	h	1980	1966	1966	22	0
1	i	1980	1966	1966	20	0
1	j	1980	1966	1966	21	0
1	k	1980	1966	1966	23	0
1	l	1980	1966	1966	22	0
1	m	1980	1966	1966	22	0
1	n	1980	1966	1966	22	0
1	o	1980	1966	1966	19	0
All	All	81180	80606	80606	818	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 5.

All (818) 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:I:28:SER:OG	1:I:455:GLU:OE2	1.91	0.89
1:N:28:SER:OG	1:N:455:GLU:OE2	1.91	0.89
1:e:28:SER:OG	1:e:455:GLU:OE2	1.91	0.89
1:j:28:SER:OG	1:j:455:GLU:OE2	1.91	0.89
1:l:28:SER:OG	1:l:455:GLU:OE2	1.91	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:28:SER:OG	1:m:455:GLU:OE2	1.91	0.89
1:G:28:SER:OG	1:G:455:GLU:OE2	1.91	0.89
1:P:28:SER:OG	1:P:455:GLU:OE2	1.91	0.89
1:Q:28:SER:OG	1:Q:455:GLU:OE2	1.91	0.89
1:F:28:SER:OG	1:F:455:GLU:OE2	1.91	0.89
1:c:28:SER:OG	1:c:455:GLU:OE2	1.91	0.89
1:K:28:SER:OG	1:K:455:GLU:OE2	1.91	0.88
1:L:28:SER:OG	1:L:455:GLU:OE2	1.91	0.88
1:g:28:SER:OG	1:g:455:GLU:OE2	1.91	0.88
1:h:28:SER:OG	1:h:455:GLU:OE2	1.91	0.88
1:b:28:SER:OG	1:b:455:GLU:OE2	1.91	0.88
1:o:28:SER:OG	1:o:455:GLU:OE2	1.91	0.88
1:n:28:SER:OG	1:n:455:GLU:OE2	1.91	0.88
1:R:28:SER:OG	1:R:455:GLU:OE2	1.91	0.88
1:E:28:SER:OG	1:E:455:GLU:OE2	1.91	0.88
1:S:28:SER:OG	1:S:455:GLU:OE2	1.91	0.88
1:k:28:SER:OG	1:k:455:GLU:OE2	1.91	0.88
1:D:28:SER:OG	1:D:455:GLU:OE2	1.91	0.88
1:O:28:SER:OG	1:O:455:GLU:OE2	1.91	0.88
1:a:28:SER:OG	1:a:455:GLU:OE2	1.91	0.88
1:H:28:SER:OG	1:H:455:GLU:OE2	1.91	0.88
1:X:28:SER:OG	1:X:455:GLU:OE2	1.91	0.87
1:Z:28:SER:OG	1:Z:455:GLU:OE2	1.91	0.87
1:B:28:SER:OG	1:B:455:GLU:OE2	1.91	0.87
1:C:28:SER:OG	1:C:455:GLU:OE2	1.91	0.87
1:U:28:SER:OG	1:U:455:GLU:OE2	1.91	0.87
1:Y:28:SER:OG	1:Y:455:GLU:OE2	1.91	0.87
1:d:28:SER:OG	1:d:455:GLU:OE2	1.91	0.87
1:T:28:SER:OG	1:T:455:GLU:OE2	1.91	0.87
1:J:28:SER:OG	1:J:455:GLU:OE2	1.91	0.87
1:i:28:SER:OG	1:i:455:GLU:OE2	1.91	0.87
1:M:28:SER:OG	1:M:455:GLU:OE2	1.91	0.87
1:W:28:SER:OG	1:W:455:GLU:OE2	1.91	0.87
1:f:28:SER:OG	1:f:455:GLU:OE2	1.91	0.87
1:A:28:SER:OG	1:A:455:GLU:OE2	1.91	0.87
1:V:28:SER:OG	1:V:455:GLU:OE2	1.91	0.86
1:G:37:ARG:NH2	1:G:447:ILE:O	2.23	0.72
1:W:37:ARG:NH2	1:W:447:ILE:O	2.23	0.72
1:D:37:ARG:NH2	1:D:447:ILE:O	2.23	0.72
1:M:37:ARG:NH2	1:M:447:ILE:O	2.23	0.72
1:P:37:ARG:NH2	1:P:447:ILE:O	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:Z:37:ARG:NH2	1:Z:447:ILE:O	2.23	0.72
1:g:37:ARG:NH2	1:g:447:ILE:O	2.23	0.72
1:A:37:ARG:NH2	1:A:447:ILE:O	2.23	0.72
1:C:37:ARG:NH2	1:C:447:ILE:O	2.23	0.72
1:F:37:ARG:NH2	1:F:447:ILE:O	2.23	0.72
1:J:37:ARG:NH2	1:J:447:ILE:O	2.23	0.72
1:Q:37:ARG:NH2	1:Q:447:ILE:O	2.23	0.72
1:j:37:ARG:NH2	1:j:447:ILE:O	2.23	0.72
1:B:37:ARG:NH2	1:B:447:ILE:O	2.23	0.72
1:N:37:ARG:NH2	1:N:447:ILE:O	2.23	0.72
1:i:37:ARG:NH2	1:i:447:ILE:O	2.23	0.72
1:E:37:ARG:NH2	1:E:447:ILE:O	2.23	0.72
1:O:37:ARG:NH2	1:O:447:ILE:O	2.23	0.72
1:Y:37:ARG:NH2	1:Y:447:ILE:O	2.23	0.72
1:d:37:ARG:NH2	1:d:447:ILE:O	2.23	0.72
1:H:37:ARG:NH2	1:H:447:ILE:O	2.23	0.72
1:I:37:ARG:NH2	1:I:447:ILE:O	2.23	0.72
1:K:37:ARG:NH2	1:K:447:ILE:O	2.23	0.72
1:L:37:ARG:NH2	1:L:447:ILE:O	2.23	0.72
1:T:37:ARG:NH2	1:T:447:ILE:O	2.23	0.72
1:a:37:ARG:NH2	1:a:447:ILE:O	2.23	0.72
1:c:37:ARG:NH2	1:c:447:ILE:O	2.23	0.72
1:e:37:ARG:NH2	1:e:447:ILE:O	2.23	0.72
1:S:37:ARG:NH2	1:S:447:ILE:O	2.23	0.72
1:X:37:ARG:NH2	1:X:447:ILE:O	2.23	0.72
1:b:37:ARG:NH2	1:b:447:ILE:O	2.23	0.72
1:h:37:ARG:NH2	1:h:447:ILE:O	2.23	0.72
1:R:37:ARG:NH2	1:R:447:ILE:O	2.23	0.72
1:U:37:ARG:NH2	1:U:447:ILE:O	2.23	0.72
1:l:37:ARG:NH2	1:l:447:ILE:O	2.23	0.72
1:m:37:ARG:NH2	1:m:447:ILE:O	2.23	0.72
1:o:37:ARG:NH2	1:o:447:ILE:O	2.23	0.72
1:V:37:ARG:NH2	1:V:447:ILE:O	2.23	0.71
1:f:37:ARG:NH2	1:f:447:ILE:O	2.23	0.71
1:k:37:ARG:NH2	1:k:447:ILE:O	2.23	0.71
1:n:37:ARG:NH2	1:n:447:ILE:O	2.23	0.71
1:K:431:ASP:O	1:L:16:ARG:NH2	2.26	0.69
1:R:431:ASP:O	1:n:16:ARG:NH2	2.26	0.69
1:M:16:ARG:NH2	1:i:431:ASP:O	2.26	0.69
1:Q:16:ARG:NH2	1:m:431:ASP:O	2.26	0.69
1:S:16:ARG:NH2	1:o:431:ASP:O	2.26	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:16:ARG:NH2	1:W:431:ASP:O	2.26	0.69
1:I:16:ARG:NH2	1:e:431:ASP:O	2.26	0.69
1:O:16:ARG:NH2	1:k:431:ASP:O	2.26	0.69
1:B:431:ASP:O	1:X:16:ARG:NH2	2.26	0.69
1:C:16:ARG:NH2	1:Y:431:ASP:O	2.26	0.69
1:J:16:ARG:NH2	1:M:431:ASP:O	2.26	0.69
1:L:431:ASP:O	1:h:16:ARG:NH2	2.26	0.69
1:N:431:ASP:O	1:j:16:ARG:NH2	2.26	0.69
1:P:431:ASP:O	1:l:16:ARG:NH2	2.26	0.69
1:K:16:ARG:NH2	1:g:431:ASP:O	2.26	0.69
1:A:431:ASP:O	1:V:16:ARG:NH2	2.26	0.69
1:B:16:ARG:NH2	1:U:431:ASP:O	2.26	0.69
1:E:431:ASP:O	1:R:16:ARG:NH2	2.26	0.69
1:F:16:ARG:NH2	1:Q:431:ASP:O	2.26	0.68
1:G:16:ARG:NH2	1:c:431:ASP:O	2.26	0.68
1:H:431:ASP:O	1:d:16:ARG:NH2	2.26	0.68
1:D:16:ARG:NH2	1:S:431:ASP:O	2.26	0.68
1:F:431:ASP:O	1:b:16:ARG:NH2	2.26	0.68
1:C:431:ASP:O	1:T:16:ARG:NH2	2.26	0.68
1:E:16:ARG:NH2	1:a:431:ASP:O	2.26	0.68
1:G:431:ASP:O	1:P:16:ARG:NH2	2.26	0.68
1:D:431:ASP:O	1:Z:16:ARG:NH2	2.26	0.68
1:I:431:ASP:O	1:N:16:ARG:NH2	2.26	0.68
1:J:431:ASP:O	1:f:16:ARG:NH2	2.26	0.68
1:H:16:ARG:NH2	1:O:431:ASP:O	2.26	0.68
1:C:62:ASN:O	1:C:65:THR:OG1	2.14	0.66
1:D:49:GLN:NE2	1:S:413:ASP:O	2.29	0.66
1:E:49:GLN:NE2	1:a:413:ASP:O	2.29	0.66
1:T:62:ASN:O	1:T:65:THR:OG1	2.14	0.66
1:E:62:ASN:O	1:E:65:THR:OG1	2.14	0.66
1:V:62:ASN:O	1:V:65:THR:OG1	2.14	0.66
1:d:62:ASN:O	1:d:65:THR:OG1	2.14	0.66
1:i:62:ASN:O	1:i:65:THR:OG1	2.14	0.66
1:G:49:GLN:NE2	1:c:413:ASP:O	2.29	0.66
1:o:62:ASN:O	1:o:65:THR:OG1	2.14	0.66
1:X:62:ASN:O	1:X:65:THR:OG1	2.14	0.65
1:F:49:GLN:NE2	1:Q:413:ASP:O	2.29	0.65
1:I:49:GLN:NE2	1:e:413:ASP:O	2.29	0.65
1:M:62:ASN:O	1:M:65:THR:OG1	2.14	0.65
1:O:49:GLN:NE2	1:k:413:ASP:O	2.30	0.65
1:Q:49:GLN:NE2	1:m:413:ASP:O	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:S:49:GLN:NE2	1:o:413:ASP:O	2.30	0.65
1:G:62:ASN:O	1:G:65:THR:OG1	2.14	0.65
1:I:413:ASP:O	1:N:49:GLN:NE2	2.30	0.65
1:P:62:ASN:O	1:P:65:THR:OG1	2.14	0.65
1:P:413:ASP:O	1:l:49:GLN:NE2	2.30	0.65
1:g:62:ASN:O	1:g:65:THR:OG1	2.14	0.65
1:m:62:ASN:O	1:m:65:THR:OG1	2.14	0.65
1:b:62:ASN:O	1:b:65:THR:OG1	2.14	0.65
1:R:413:ASP:O	1:n:49:GLN:NE2	2.30	0.65
1:E:413:ASP:O	1:R:49:GLN:NE2	2.30	0.65
1:Y:62:ASN:O	1:Y:65:THR:OG1	2.14	0.65
1:Z:62:ASN:O	1:Z:65:THR:OG1	2.14	0.65
1:a:62:ASN:O	1:a:65:THR:OG1	2.14	0.65
1:H:49:GLN:NE2	1:O:413:ASP:O	2.29	0.65
1:F:413:ASP:O	1:b:49:GLN:NE2	2.30	0.65
1:J:49:GLN:NE2	1:M:413:ASP:O	2.29	0.65
1:f:62:ASN:O	1:f:65:THR:OG1	2.14	0.65
1:A:49:GLN:NE2	1:W:413:ASP:O	2.29	0.65
1:N:413:ASP:O	1:j:49:GLN:NE2	2.30	0.65
1:e:62:ASN:O	1:e:65:THR:OG1	2.14	0.65
1:B:49:GLN:NE2	1:U:413:ASP:O	2.29	0.65
1:H:62:ASN:O	1:H:65:THR:OG1	2.14	0.65
1:K:49:GLN:NE2	1:g:413:ASP:O	2.30	0.65
1:B:413:ASP:O	1:X:49:GLN:NE2	2.30	0.64
1:c:62:ASN:O	1:c:65:THR:OG1	2.14	0.64
1:C:49:GLN:NE2	1:Y:413:ASP:O	2.29	0.64
1:C:413:ASP:O	1:T:49:GLN:NE2	2.30	0.64
1:H:413:ASP:O	1:d:49:GLN:NE2	2.30	0.64
1:B:62:ASN:O	1:B:65:THR:OG1	2.14	0.64
1:G:413:ASP:O	1:P:49:GLN:NE2	2.30	0.64
1:J:413:ASP:O	1:f:49:GLN:NE2	2.30	0.64
1:F:62:ASN:O	1:F:65:THR:OG1	2.14	0.64
1:L:413:ASP:O	1:h:49:GLN:NE2	2.30	0.64
1:M:49:GLN:NE2	1:i:413:ASP:O	2.30	0.64
1:D:413:ASP:O	1:Z:49:GLN:NE2	2.30	0.64
1:D:62:ASN:O	1:D:65:THR:OG1	2.14	0.64
1:K:413:ASP:O	1:L:49:GLN:NE2	2.29	0.64
1:W:62:ASN:O	1:W:65:THR:OG1	2.14	0.64
1:h:62:ASN:O	1:h:65:THR:OG1	2.14	0.64
1:n:62:ASN:O	1:n:65:THR:OG1	2.14	0.63
1:J:62:ASN:O	1:J:65:THR:OG1	2.14	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:413:ASP:O	1:V:49:GLN:NE2	2.30	0.63
1:O:62:ASN:O	1:O:65:THR:OG1	2.14	0.63
1:j:62:ASN:O	1:j:65:THR:OG1	2.14	0.63
1:l:62:ASN:O	1:l:65:THR:OG1	2.14	0.63
1:Q:62:ASN:O	1:Q:65:THR:OG1	2.14	0.62
1:U:62:ASN:O	1:U:65:THR:OG1	2.14	0.62
1:R:62:ASN:O	1:R:65:THR:OG1	2.14	0.61
1:S:62:ASN:O	1:S:65:THR:OG1	2.14	0.61
1:L:62:ASN:O	1:L:65:THR:OG1	2.14	0.61
1:A:62:ASN:O	1:A:65:THR:OG1	2.14	0.61
1:I:15:GLN:NE2	1:U:453:ALA:O	2.35	0.60
1:k:62:ASN:O	1:k:65:THR:OG1	2.14	0.60
1:N:62:ASN:O	1:N:65:THR:OG1	2.14	0.60
1:G:15:GLN:NE2	1:S:453:ALA:O	2.35	0.60
1:D:15:GLN:NE2	1:I:453:ALA:O	2.35	0.60
1:B:15:GLN:NE2	1:K:453:ALA:O	2.35	0.60
1:A:453:ALA:O	1:L:15:GLN:NE2	2.35	0.59
1:B:453:ALA:O	1:N:15:GLN:NE2	2.35	0.59
1:D:453:ALA:O	1:P:15:GLN:NE2	2.35	0.59
1:L:453:ALA:O	1:X:15:GLN:NE2	2.35	0.59
1:Q:15:GLN:NE2	1:c:453:ALA:O	2.36	0.59
1:V:453:ALA:O	1:h:15:GLN:NE2	2.36	0.59
1:J:453:ALA:O	1:V:15:GLN:NE2	2.36	0.59
1:E:15:GLN:NE2	1:Q:453:ALA:O	2.35	0.59
1:F:15:GLN:NE2	1:G:453:ALA:O	2.35	0.59
1:S:15:GLN:NE2	1:e:453:ALA:O	2.36	0.59
1:T:453:ALA:O	1:f:15:GLN:NE2	2.36	0.59
1:U:15:GLN:NE2	1:g:453:ALA:O	2.36	0.59
1:Z:453:ALA:O	1:l:15:GLN:NE2	2.36	0.59
1:A:15:GLN:NE2	1:M:453:ALA:O	2.35	0.59
1:b:453:ALA:O	1:n:15:GLN:NE2	2.36	0.59
1:c:15:GLN:NE2	1:o:453:ALA:O	2.36	0.59
1:N:453:ALA:O	1:Z:15:GLN:NE2	2.36	0.59
1:P:453:ALA:O	1:b:15:GLN:NE2	2.35	0.59
1:a:15:GLN:NE2	1:m:453:ALA:O	2.36	0.59
1:E:453:ALA:O	1:H:15:GLN:NE2	2.35	0.59
1:H:453:ALA:O	1:T:15:GLN:NE2	2.35	0.59
1:K:15:GLN:NE2	1:W:453:ALA:O	2.36	0.59
1:K:62:ASN:O	1:K:65:THR:OG1	2.14	0.59
1:C:15:GLN:NE2	1:O:453:ALA:O	2.35	0.58
1:R:453:ALA:O	1:d:15:GLN:NE2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:W:15:GLN:NE2	1:i:453:ALA:O	2.36	0.58
1:C:453:ALA:O	1:J:15:GLN:NE2	2.35	0.58
1:M:15:GLN:NE2	1:Y:453:ALA:O	2.36	0.58
1:O:15:GLN:NE2	1:a:453:ALA:O	2.36	0.58
1:I:62:ASN:O	1:I:65:THR:OG1	2.14	0.58
1:Y:15:GLN:NE2	1:k:453:ALA:O	2.36	0.58
1:F:453:ALA:O	1:R:15:GLN:NE2	2.35	0.58
1:X:82:LEU:O	1:X:86:THR:OG1	2.18	0.58
1:X:453:ALA:O	1:j:15:GLN:NE2	2.37	0.57
1:R:79:GLU:OE2	1:R:416:ARG:NH2	2.33	0.57
1:j:79:GLU:OE2	1:j:416:ARG:NH2	2.33	0.57
1:E:79:GLU:OE2	1:E:416:ARG:NH2	2.33	0.57
1:N:79:GLU:OE2	1:N:416:ARG:NH2	2.33	0.56
1:a:79:GLU:OE2	1:a:416:ARG:NH2	2.33	0.56
1:I:79:GLU:OE2	1:I:416:ARG:NH2	2.33	0.56
1:e:82:LEU:O	1:e:86:THR:OG1	2.18	0.56
1:k:82:LEU:O	1:k:86:THR:OG1	2.18	0.56
1:e:79:GLU:OE2	1:e:416:ARG:NH2	2.33	0.56
1:V:79:GLU:OE2	1:V:416:ARG:NH2	2.33	0.55
1:T:79:GLU:OE2	1:T:416:ARG:NH2	2.33	0.55
1:h:82:LEU:O	1:h:86:THR:OG1	2.18	0.55
1:A:79:GLU:OE2	1:A:416:ARG:NH2	2.33	0.55
1:C:79:GLU:OE2	1:C:416:ARG:NH2	2.33	0.55
1:Z:79:GLU:OE2	1:Z:416:ARG:NH2	2.33	0.55
1:D:79:GLU:OE2	1:D:416:ARG:NH2	2.33	0.55
1:Y:79:GLU:OE2	1:Y:416:ARG:NH2	2.33	0.54
1:W:79:GLU:OE2	1:W:416:ARG:NH2	2.33	0.54
1:S:79:GLU:OE2	1:S:416:ARG:NH2	2.33	0.54
1:D:115:GLU:OE1	1:j:45:ALA:HB3	2.07	0.54
1:H:115:GLU:OE1	1:n:45:ALA:HB3	2.08	0.54
1:M:115:GLU:OE1	1:T:45:ALA:HB3	2.08	0.54
1:K:115:GLU:OE1	1:V:45:ALA:HB3	2.08	0.54
1:P:45:ALA:HB3	1:Q:115:GLU:OE1	2.08	0.54
1:o:79:GLU:OE2	1:o:416:ARG:NH2	2.33	0.54
1:A:45:ALA:HB3	1:g:115:GLU:OE1	2.08	0.54
1:C:45:ALA:HB3	1:i:115:GLU:OE1	2.08	0.54
1:J:45:ALA:HB3	1:W:115:GLU:OE1	2.08	0.54
1:b:79:GLU:OE2	1:b:416:ARG:NH2	2.33	0.54
1:H:45:ALA:HB3	1:Y:115:GLU:OE1	2.08	0.54
1:L:45:ALA:HB3	1:U:115:GLU:OE1	2.08	0.54
1:C:115:GLU:OE1	1:d:45:ALA:HB3	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:GLU:OE1	1:l:45:ALA:HB3	2.08	0.54
1:I:45:ALA:HB3	1:o:115:GLU:OE1	2.08	0.54
1:O:115:GLU:OE1	1:R:45:ALA:HB3	2.08	0.54
1:B:45:ALA:HB3	1:e:115:GLU:OE1	2.08	0.53
1:F:79:GLU:OE2	1:F:416:ARG:NH2	2.33	0.53
1:A:115:GLU:OE1	1:f:45:ALA:HB3	2.08	0.53
1:F:45:ALA:HB3	1:a:115:GLU:OE1	2.08	0.53
1:h:79:GLU:OE2	1:h:416:ARG:NH2	2.33	0.53
1:E:45:ALA:HB3	1:k:115:GLU:OE1	2.08	0.53
1:G:45:ALA:HB3	1:m:115:GLU:OE1	2.08	0.53
1:Q:79:GLU:OE2	1:Q:416:ARG:NH2	2.33	0.53
1:S:37:ARG:N	1:S:450:THR:OG1	2.42	0.53
1:a:37:ARG:N	1:a:450:THR:OG1	2.42	0.53
1:c:37:ARG:N	1:c:450:THR:OG1	2.42	0.53
1:l:37:ARG:N	1:l:450:THR:OG1	2.42	0.53
1:D:45:ALA:HB3	1:c:115:GLU:OE1	2.08	0.53
1:N:45:ALA:HB3	1:S:115:GLU:OE1	2.08	0.53
1:Q:37:ARG:N	1:Q:450:THR:OG1	2.42	0.53
1:n:37:ARG:N	1:n:450:THR:OG1	2.42	0.53
1:D:37:ARG:N	1:D:450:THR:OG1	2.42	0.53
1:E:37:ARG:N	1:E:450:THR:OG1	2.42	0.53
1:F:37:ARG:N	1:F:450:THR:OG1	2.42	0.53
1:G:37:ARG:N	1:G:450:THR:OG1	2.42	0.53
1:I:37:ARG:N	1:I:450:THR:OG1	2.42	0.53
1:b:37:ARG:N	1:b:450:THR:OG1	2.42	0.53
1:m:37:ARG:N	1:m:450:THR:OG1	2.42	0.53
1:I:115:GLU:OE1	1:X:45:ALA:HB3	2.08	0.53
1:U:82:LEU:O	1:U:86:THR:OG1	2.18	0.53
1:k:37:ARG:N	1:k:450:THR:OG1	2.42	0.53
1:J:82:LEU:O	1:J:86:THR:OG1	2.18	0.53
1:L:79:GLU:OE2	1:L:416:ARG:NH2	2.33	0.53
1:d:37:ARG:N	1:d:450:THR:OG1	2.42	0.53
1:m:79:GLU:OE2	1:m:416:ARG:NH2	2.33	0.53
1:N:37:ARG:N	1:N:450:THR:OG1	2.42	0.53
1:B:37:ARG:N	1:B:450:THR:OG1	2.42	0.53
1:B:115:GLU:OE1	1:h:45:ALA:HB3	2.08	0.53
1:E:115:GLU:OE1	1:b:45:ALA:HB3	2.08	0.53
1:G:115:GLU:OE1	1:Z:45:ALA:HB3	2.08	0.53
1:R:37:ARG:N	1:R:450:THR:OG1	2.42	0.52
1:O:37:ARG:N	1:O:450:THR:OG1	2.42	0.52
1:X:79:GLU:OE2	1:X:416:ARG:NH2	2.33	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:e:37:ARG:N	1:e:450:THR:OG1	2.42	0.52
1:j:37:ARG:N	1:j:450:THR:OG1	2.42	0.52
1:o:37:ARG:N	1:o:450:THR:OG1	2.42	0.52
1:K:79:GLU:OE2	1:K:416:ARG:NH2	2.33	0.52
1:L:82:LEU:O	1:L:86:THR:OG1	2.18	0.52
1:P:37:ARG:N	1:P:450:THR:OG1	2.42	0.52
1:T:37:ARG:N	1:T:450:THR:OG1	2.42	0.52
1:L:37:ARG:N	1:L:450:THR:OG1	2.42	0.52
1:U:37:ARG:N	1:U:450:THR:OG1	2.42	0.52
1:W:37:ARG:N	1:W:450:THR:OG1	2.42	0.52
1:j:82:LEU:O	1:j:86:THR:OG1	2.18	0.52
1:Y:37:ARG:N	1:Y:450:THR:OG1	2.42	0.52
1:B:79:GLU:OE2	1:B:416:ARG:NH2	2.33	0.52
1:H:37:ARG:N	1:H:450:THR:OG1	2.42	0.52
1:X:37:ARG:N	1:X:450:THR:OG1	2.42	0.52
1:Z:37:ARG:N	1:Z:450:THR:OG1	2.42	0.52
1:K:37:ARG:N	1:K:450:THR:OG1	2.42	0.52
1:M:37:ARG:N	1:M:450:THR:OG1	2.42	0.52
1:V:37:ARG:N	1:V:450:THR:OG1	2.42	0.52
1:f:37:ARG:N	1:f:450:THR:OG1	2.42	0.52
1:i:37:ARG:N	1:i:450:THR:OG1	2.42	0.52
1:C:37:ARG:N	1:C:450:THR:OG1	2.42	0.52
1:J:37:ARG:N	1:J:450:THR:OG1	2.42	0.52
1:g:79:GLU:OE2	1:g:416:ARG:NH2	2.33	0.52
1:A:37:ARG:N	1:A:450:THR:OG1	2.42	0.52
1:C:82:LEU:O	1:C:86:THR:OG1	2.18	0.52
1:a:82:LEU:O	1:a:86:THR:OG1	2.18	0.52
1:g:37:ARG:N	1:g:450:THR:OG1	2.42	0.52
1:U:79:GLU:OE2	1:U:416:ARG:NH2	2.33	0.52
1:h:37:ARG:N	1:h:450:THR:OG1	2.42	0.52
1:H:79:GLU:OE2	1:H:416:ARG:NH2	2.33	0.51
1:g:48:LEU:O	1:g:51:SER:N	2.44	0.51
1:i:48:LEU:O	1:i:51:SER:N	2.44	0.51
1:W:48:LEU:O	1:W:51:SER:N	2.44	0.51
1:d:79:GLU:OE2	1:d:416:ARG:NH2	2.33	0.51
1:U:48:LEU:O	1:U:51:SER:N	2.44	0.51
1:e:48:LEU:O	1:e:51:SER:N	2.44	0.51
1:Y:48:LEU:O	1:Y:51:SER:N	2.44	0.51
1:h:48:LEU:O	1:h:51:SER:N	2.44	0.51
1:l:79:GLU:OE2	1:l:416:ARG:NH2	2.33	0.51
1:K:48:LEU:O	1:K:51:SER:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:79:GLU:OE2	1:O:416:ARG:NH2	2.33	0.51
1:f:48:LEU:O	1:f:51:SER:N	2.44	0.51
1:M:48:LEU:O	1:M:51:SER:N	2.44	0.51
1:P:79:GLU:OE2	1:P:416:ARG:NH2	2.33	0.51
1:j:48:LEU:O	1:j:51:SER:N	2.44	0.51
1:o:48:LEU:O	1:o:51:SER:N	2.44	0.51
1:G:79:GLU:OE2	1:G:416:ARG:NH2	2.33	0.51
1:V:48:LEU:O	1:V:51:SER:N	2.44	0.51
1:X:48:LEU:O	1:X:51:SER:N	2.44	0.51
1:f:79:GLU:OE2	1:f:416:ARG:NH2	2.33	0.51
1:A:48:LEU:O	1:A:51:SER:N	2.44	0.51
1:C:48:LEU:O	1:C:51:SER:N	2.44	0.51
1:I:48:LEU:O	1:I:51:SER:N	2.44	0.51
1:Z:48:LEU:O	1:Z:51:SER:N	2.44	0.51
1:c:79:GLU:OE2	1:c:416:ARG:NH2	2.33	0.51
1:B:48:LEU:O	1:B:51:SER:N	2.44	0.50
1:k:79:GLU:OE2	1:k:416:ARG:NH2	2.33	0.50
1:N:48:LEU:O	1:N:51:SER:N	2.44	0.50
1:S:48:LEU:O	1:S:51:SER:N	2.44	0.50
1:H:48:LEU:O	1:H:51:SER:N	2.44	0.50
1:J:79:GLU:OE2	1:J:416:ARG:NH2	2.33	0.50
1:L:48:LEU:O	1:L:51:SER:N	2.44	0.50
1:J:48:LEU:O	1:J:51:SER:N	2.44	0.50
1:T:48:LEU:O	1:T:51:SER:N	2.44	0.50
1:m:48:LEU:O	1:m:51:SER:N	2.44	0.50
1:Q:48:LEU:O	1:Q:51:SER:N	2.44	0.50
1:D:48:LEU:O	1:D:51:SER:N	2.44	0.50
1:E:48:LEU:O	1:E:51:SER:N	2.44	0.50
1:R:48:LEU:O	1:R:51:SER:N	2.44	0.50
1:M:79:GLU:OE2	1:M:416:ARG:NH2	2.33	0.50
1:a:48:LEU:O	1:a:51:SER:N	2.44	0.50
1:d:48:LEU:O	1:d:51:SER:N	2.44	0.50
1:F:48:LEU:O	1:F:51:SER:N	2.44	0.49
1:c:48:LEU:O	1:c:51:SER:N	2.44	0.49
1:l:48:LEU:O	1:l:51:SER:N	2.44	0.49
1:n:48:LEU:O	1:n:51:SER:N	2.44	0.49
1:i:79:GLU:OE2	1:i:416:ARG:NH2	2.33	0.49
1:S:82:LEU:O	1:S:86:THR:OG1	2.18	0.49
1:P:48:LEU:O	1:P:51:SER:N	2.44	0.49
1:b:48:LEU:O	1:b:51:SER:N	2.44	0.49
1:N:82:LEU:O	1:N:86:THR:OG1	2.18	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:24:ASP:OD2	1:C:462:ASN:ND2	2.46	0.48
1:M:24:ASP:OD2	1:M:462:ASN:ND2	2.46	0.48
1:Y:24:ASP:OD2	1:Y:462:ASN:ND2	2.46	0.48
1:G:48:LEU:O	1:G:51:SER:N	2.44	0.48
1:i:24:ASP:OD2	1:i:462:ASN:ND2	2.46	0.48
1:k:48:LEU:O	1:k:51:SER:N	2.44	0.48
1:O:24:ASP:OD2	1:O:462:ASN:ND2	2.46	0.48
1:P:82:LEU:O	1:P:86:THR:OG1	2.18	0.48
1:W:24:ASP:OD2	1:W:462:ASN:ND2	2.46	0.48
1:H:24:ASP:OD2	1:H:462:ASN:ND2	2.46	0.48
1:f:24:ASP:OD2	1:f:462:ASN:ND2	2.46	0.48
1:O:48:LEU:O	1:O:51:SER:N	2.44	0.48
1:L:128:ASP:O	1:L:129:THR:OG1	2.31	0.48
1:n:79:GLU:OE2	1:n:416:ARG:NH2	2.33	0.48
1:A:24:ASP:OD2	1:A:462:ASN:ND2	2.46	0.48
1:E:24:ASP:OD2	1:E:462:ASN:ND2	2.46	0.48
1:N:35:GLY:O	1:j:6:ASN:ND2	2.47	0.48
1:g:24:ASP:OD2	1:g:462:ASN:ND2	2.46	0.48
1:k:24:ASP:OD2	1:k:462:ASN:ND2	2.46	0.48
1:E:96:ALA:O	1:E:99:SER:OG	2.31	0.48
1:J:24:ASP:OD2	1:J:462:ASN:ND2	2.46	0.48
1:V:24:ASP:OD2	1:V:462:ASN:ND2	2.46	0.48
1:V:82:LEU:O	1:V:86:THR:OG1	2.18	0.48
1:L:96:ALA:O	1:L:99:SER:OG	2.31	0.47
1:T:24:ASP:OD2	1:T:462:ASN:ND2	2.46	0.47
1:X:96:ALA:O	1:X:99:SER:OG	2.31	0.47
1:h:24:ASP:OD2	1:h:462:ASN:ND2	2.46	0.47
1:G:96:ALA:O	1:G:99:SER:OG	2.31	0.47
1:H:96:ALA:O	1:H:99:SER:OG	2.31	0.47
1:R:139:ASP:N	1:R:139:ASP:OD1	2.47	0.47
1:d:24:ASP:OD2	1:d:462:ASN:ND2	2.46	0.47
1:A:82:LEU:O	1:A:86:THR:OG1	2.18	0.47
1:A:96:ALA:O	1:A:99:SER:OG	2.31	0.47
1:H:139:ASP:N	1:H:139:ASP:OD1	2.47	0.47
1:K:24:ASP:OD2	1:K:462:ASN:ND2	2.46	0.47
1:Q:96:ALA:O	1:Q:99:SER:OG	2.31	0.47
1:R:24:ASP:OD2	1:R:462:ASN:ND2	2.46	0.47
1:a:24:ASP:OD2	1:a:462:ASN:ND2	2.46	0.47
1:j:96:ALA:O	1:j:99:SER:OG	2.31	0.47
1:C:139:ASP:OD1	1:C:139:ASP:N	2.47	0.47
1:b:139:ASP:N	1:b:139:ASP:OD1	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:m:139:ASP:N	1:m:139:ASP:OD1	2.47	0.47
1:F:139:ASP:OD1	1:F:139:ASP:N	2.47	0.47
1:M:41:ALA:HB1	1:i:420:GLY:CA	2.45	0.47
1:Q:41:ALA:HB1	1:m:420:GLY:CA	2.45	0.47
1:R:420:GLY:CA	1:n:41:ALA:HB1	2.45	0.47
1:n:24:ASP:OD2	1:n:462:ASN:ND2	2.46	0.47
1:D:35:GLY:O	1:Z:6:ASN:ND2	2.48	0.47
1:F:24:ASP:OD2	1:F:462:ASN:ND2	2.46	0.47
1:G:35:GLY:O	1:P:6:ASN:ND2	2.48	0.47
1:G:139:ASP:N	1:G:139:ASP:OD1	2.47	0.47
1:M:96:ALA:O	1:M:99:SER:OG	2.31	0.47
1:T:82:LEU:O	1:T:86:THR:OG1	2.18	0.47
1:N:420:GLY:CA	1:j:41:ALA:HB1	2.44	0.47
1:Q:82:LEU:O	1:Q:86:THR:OG1	2.18	0.47
1:c:139:ASP:N	1:c:139:ASP:OD1	2.47	0.47
1:d:128:ASP:O	1:d:129:THR:OG1	2.31	0.47
1:l:139:ASP:N	1:l:139:ASP:OD1	2.47	0.47
1:D:96:ALA:O	1:D:99:SER:OG	2.31	0.47
1:H:128:ASP:O	1:H:129:THR:OG1	2.31	0.47
1:J:41:ALA:HB1	1:M:420:GLY:CA	2.45	0.47
1:K:6:ASN:ND2	1:g:35:GLY:O	2.48	0.47
1:L:24:ASP:OD2	1:L:462:ASN:ND2	2.46	0.47
1:L:420:GLY:CA	1:h:41:ALA:HB1	2.45	0.47
1:O:96:ALA:O	1:O:99:SER:OG	2.31	0.47
1:P:420:GLY:CA	1:l:41:ALA:HB1	2.45	0.47
1:Q:24:ASP:OD2	1:Q:462:ASN:ND2	2.46	0.47
1:U:24:ASP:OD2	1:U:462:ASN:ND2	2.46	0.47
1:X:24:ASP:OD2	1:X:462:ASN:ND2	2.46	0.47
1:Y:96:ALA:O	1:Y:99:SER:OG	2.31	0.47
1:C:420:GLY:CA	1:T:41:ALA:HB1	2.46	0.46
1:E:139:ASP:N	1:E:139:ASP:OD1	2.47	0.46
1:F:35:GLY:O	1:b:6:ASN:ND2	2.48	0.46
1:H:35:GLY:O	1:d:6:ASN:ND2	2.48	0.46
1:J:420:GLY:CA	1:f:41:ALA:HB1	2.45	0.46
1:P:35:GLY:O	1:l:6:ASN:ND2	2.48	0.46
1:R:35:GLY:O	1:n:6:ASN:ND2	2.48	0.46
1:T:96:ALA:O	1:T:99:SER:OG	2.31	0.46
1:a:96:ALA:O	1:a:99:SER:OG	2.31	0.46
1:C:41:ALA:HB1	1:Y:420:GLY:CA	2.46	0.46
1:E:420:GLY:CA	1:R:41:ALA:HB1	2.46	0.46
1:G:420:GLY:CA	1:P:41:ALA:HB1	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:41:ALA:HB1	1:O:420:GLY:CA	2.46	0.46
1:H:420:GLY:CA	1:d:41:ALA:HB1	2.46	0.46
1:K:35:GLY:O	1:L:6:ASN:ND2	2.48	0.46
1:b:24:ASP:OD2	1:b:462:ASN:ND2	2.46	0.46
1:A:35:GLY:O	1:V:6:ASN:ND2	2.48	0.46
1:F:41:ALA:HB1	1:Q:420:GLY:CA	2.46	0.46
1:J:35:GLY:O	1:f:6:ASN:ND2	2.48	0.46
1:Q:6:ASN:ND2	1:m:35:GLY:O	2.48	0.46
1:c:96:ALA:O	1:c:99:SER:OG	2.31	0.46
1:C:35:GLY:O	1:T:6:ASN:ND2	2.48	0.46
1:C:96:ALA:O	1:C:99:SER:OG	2.31	0.46
1:E:35:GLY:O	1:R:6:ASN:ND2	2.48	0.46
1:F:420:GLY:CA	1:b:41:ALA:HB1	2.45	0.46
1:M:6:ASN:ND2	1:i:35:GLY:O	2.48	0.46
1:O:6:ASN:ND2	1:k:35:GLY:O	2.48	0.46
1:O:41:ALA:HB1	1:k:420:GLY:CA	2.45	0.46
1:O:139:ASP:N	1:O:139:ASP:OD1	2.47	0.46
1:P:24:ASP:OD2	1:P:462:ASN:ND2	2.46	0.46
1:S:96:ALA:O	1:S:99:SER:OG	2.31	0.46
1:c:128:ASP:O	1:c:129:THR:OG1	2.31	0.46
1:B:82:LEU:O	1:B:86:THR:OG1	2.18	0.46
1:C:128:ASP:O	1:C:129:THR:OG1	2.31	0.46
1:G:24:ASP:OD2	1:G:462:ASN:ND2	2.46	0.46
1:G:41:ALA:HB1	1:c:420:GLY:CA	2.46	0.46
1:I:35:GLY:O	1:N:6:ASN:ND2	2.48	0.46
1:J:6:ASN:ND2	1:M:35:GLY:O	2.48	0.46
1:L:35:GLY:O	1:h:6:ASN:ND2	2.48	0.46
1:M:139:ASP:N	1:M:139:ASP:OD1	2.47	0.46
1:N:24:ASP:OD2	1:N:462:ASN:ND2	2.46	0.46
1:e:24:ASP:OD2	1:e:462:ASN:ND2	2.46	0.46
1:o:96:ALA:O	1:o:99:SER:OG	2.31	0.46
1:A:41:ALA:HB1	1:W:420:GLY:CA	2.46	0.46
1:F:6:ASN:ND2	1:Q:35:GLY:O	2.49	0.46
1:S:41:ALA:HB1	1:o:420:GLY:CA	2.45	0.46
1:j:24:ASP:OD2	1:j:462:ASN:ND2	2.46	0.46
1:l:96:ALA:O	1:l:99:SER:OG	2.31	0.46
1:D:420:GLY:CA	1:Z:41:ALA:HB1	2.46	0.46
1:E:41:ALA:HB1	1:a:420:GLY:CA	2.46	0.46
1:Z:24:ASP:OD2	1:Z:462:ASN:ND2	2.46	0.46
1:m:24:ASP:OD2	1:m:462:ASN:ND2	2.46	0.46
1:B:24:ASP:OD2	1:B:462:ASN:ND2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:GLY:O	1:X:6:ASN:ND2	2.48	0.46
1:B:420:GLY:CA	1:X:41:ALA:HB1	2.46	0.46
1:K:420:GLY:CA	1:L:41:ALA:HB1	2.45	0.46
1:m:96:ALA:O	1:m:99:SER:OG	2.31	0.46
1:A:420:GLY:CA	1:V:41:ALA:HB1	2.46	0.46
1:B:41:ALA:HB1	1:U:420:GLY:CA	2.46	0.46
1:B:96:ALA:O	1:B:99:SER:OG	2.31	0.46
1:D:6:ASN:ND2	1:S:35:GLY:O	2.49	0.46
1:D:24:ASP:OD2	1:D:462:ASN:ND2	2.46	0.46
1:G:6:ASN:ND2	1:c:35:GLY:O	2.49	0.46
1:I:41:ALA:HB1	1:e:420:GLY:CA	2.46	0.46
1:K:41:ALA:HB1	1:g:420:GLY:CA	2.45	0.46
1:n:96:ALA:O	1:n:99:SER:OG	2.31	0.46
1:o:24:ASP:OD2	1:o:462:ASN:ND2	2.46	0.46
1:A:6:ASN:ND2	1:W:35:GLY:O	2.49	0.45
1:B:6:ASN:ND2	1:U:35:GLY:O	2.49	0.45
1:J:96:ALA:O	1:J:99:SER:OG	2.31	0.45
1:S:6:ASN:ND2	1:o:35:GLY:O	2.48	0.45
1:d:96:ALA:O	1:d:99:SER:OG	2.31	0.45
1:l:24:ASP:OD2	1:l:462:ASN:ND2	2.46	0.45
1:I:96:ALA:O	1:I:99:SER:OG	2.31	0.45
1:K:96:ALA:O	1:K:99:SER:OG	2.31	0.45
1:M:128:ASP:O	1:M:129:THR:OG1	2.31	0.45
1:R:96:ALA:O	1:R:99:SER:OG	2.31	0.45
1:N:96:ALA:O	1:N:99:SER:OG	2.31	0.45
1:Y:139:ASP:N	1:Y:139:ASP:OD1	2.47	0.45
1:D:41:ALA:HB1	1:S:420:GLY:CA	2.46	0.45
1:E:6:ASN:ND2	1:a:35:GLY:O	2.49	0.45
1:I:420:GLY:CA	1:N:41:ALA:HB1	2.45	0.45
1:H:6:ASN:ND2	1:O:35:GLY:O	2.49	0.45
1:I:6:ASN:ND2	1:e:35:GLY:O	2.49	0.45
1:W:96:ALA:O	1:W:99:SER:OG	2.31	0.45
1:I:24:ASP:OD2	1:I:462:ASN:ND2	2.46	0.45
1:P:139:ASP:N	1:P:139:ASP:OD1	2.47	0.45
1:W:128:ASP:O	1:W:129:THR:OG1	2.31	0.45
1:W:139:ASP:N	1:W:139:ASP:OD1	2.47	0.45
1:k:96:ALA:O	1:k:99:SER:OG	2.31	0.45
1:C:6:ASN:ND2	1:Y:35:GLY:O	2.49	0.45
1:b:96:ALA:O	1:b:99:SER:OG	2.31	0.45
1:c:24:ASP:OD2	1:c:462:ASN:ND2	2.46	0.45
1:o:139:ASP:N	1:o:139:ASP:OD1	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:82:LEU:O	1:I:86:THR:OG1	2.18	0.45
1:R:82:LEU:O	1:R:86:THR:OG1	2.18	0.45
1:i:96:ALA:O	1:i:99:SER:OG	2.31	0.45
1:C:169:ILE:HG22	1:C:408:ALA:HB1	1.99	0.45
1:S:24:ASP:OD2	1:S:462:ASN:ND2	2.46	0.45
1:Z:139:ASP:N	1:Z:139:ASP:OD1	2.47	0.45
1:H:169:ILE:HG22	1:H:408:ALA:HB1	1.99	0.44
1:V:96:ALA:O	1:V:99:SER:OG	2.31	0.44
1:Z:96:ALA:O	1:Z:99:SER:OG	2.31	0.44
1:g:128:ASP:O	1:g:129:THR:OG1	2.31	0.44
1:Y:128:ASP:O	1:Y:129:THR:OG1	2.31	0.44
1:e:96:ALA:O	1:e:99:SER:OG	2.31	0.44
1:e:139:ASP:N	1:e:139:ASP:OD1	2.47	0.44
1:n:128:ASP:O	1:n:129:THR:OG1	2.31	0.44
1:o:169:ILE:HG22	1:o:408:ALA:HB1	1.99	0.44
1:D:169:ILE:HG22	1:D:408:ALA:HB1	1.99	0.44
1:I:169:ILE:HG22	1:I:408:ALA:HB1	1.99	0.44
1:N:169:ILE:HG22	1:N:408:ALA:HB1	1.99	0.44
1:T:169:ILE:HG22	1:T:408:ALA:HB1	1.99	0.44
1:Y:169:ILE:HG22	1:Y:408:ALA:HB1	1.99	0.44
1:e:169:ILE:HG22	1:e:408:ALA:HB1	1.99	0.44
1:i:139:ASP:N	1:i:139:ASP:OD1	2.47	0.44
1:j:169:ILE:HG22	1:j:408:ALA:HB1	1.99	0.44
1:B:169:ILE:HG22	1:B:408:ALA:HB1	1.99	0.44
1:C:482:ALA:O	1:C:485:SER:OG	2.35	0.44
1:M:169:ILE:HG22	1:M:408:ALA:HB1	1.99	0.44
1:O:169:ILE:HG22	1:O:408:ALA:HB1	1.99	0.44
1:R:169:ILE:HG22	1:R:408:ALA:HB1	1.99	0.44
1:d:169:ILE:HG22	1:d:408:ALA:HB1	1.99	0.44
1:e:392:ILE:O	1:e:394:THR:N	2.51	0.44
1:J:169:ILE:HG22	1:J:408:ALA:HB1	1.99	0.44
1:S:169:ILE:HG22	1:S:408:ALA:HB1	1.99	0.44
1:U:392:ILE:O	1:U:394:THR:N	2.51	0.44
1:Z:169:ILE:HG22	1:Z:408:ALA:HB1	1.99	0.44
1:f:392:ILE:O	1:f:394:THR:N	2.51	0.44
1:i:169:ILE:HG22	1:i:408:ALA:HB1	1.99	0.44
1:j:139:ASP:OD1	1:j:139:ASP:N	2.47	0.44
1:k:392:ILE:O	1:k:394:THR:N	2.51	0.44
1:o:392:ILE:O	1:o:394:THR:N	2.51	0.44
1:E:169:ILE:HG22	1:E:408:ALA:HB1	1.99	0.44
1:K:392:ILE:O	1:K:394:THR:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:392:ILE:O	1:A:394:THR:N	2.51	0.44
1:B:392:ILE:O	1:B:394:THR:N	2.51	0.44
1:F:392:ILE:O	1:F:394:THR:N	2.51	0.44
1:G:169:ILE:HG22	1:G:408:ALA:HB1	1.99	0.44
1:L:392:ILE:O	1:L:394:THR:N	2.51	0.44
1:V:392:ILE:O	1:V:394:THR:N	2.51	0.44
1:X:169:ILE:HG22	1:X:408:ALA:HB1	1.99	0.44
1:a:392:ILE:O	1:a:394:THR:N	2.51	0.44
1:c:169:ILE:HG22	1:c:408:ALA:HB1	1.99	0.44
1:l:169:ILE:HG22	1:l:408:ALA:HB1	1.99	0.44
1:m:392:ILE:O	1:m:394:THR:N	2.51	0.44
1:A:169:ILE:HG22	1:A:408:ALA:HB1	1.99	0.44
1:I:392:ILE:O	1:I:394:THR:N	2.51	0.44
1:J:392:ILE:O	1:J:394:THR:N	2.51	0.44
1:Q:392:ILE:O	1:Q:394:THR:N	2.51	0.44
1:S:392:ILE:O	1:S:394:THR:N	2.51	0.44
1:T:392:ILE:O	1:T:394:THR:N	2.51	0.44
1:U:96:ALA:O	1:U:99:SER:OG	2.31	0.44
1:U:169:ILE:HG22	1:U:408:ALA:HB1	1.99	0.44
1:W:169:ILE:HG22	1:W:408:ALA:HB1	1.99	0.44
1:b:128:ASP:O	1:b:129:THR:OG1	2.31	0.44
1:c:392:ILE:O	1:c:394:THR:N	2.51	0.44
1:d:392:ILE:O	1:d:394:THR:N	2.51	0.44
1:k:128:ASP:O	1:k:129:THR:OG1	2.31	0.44
1:l:392:ILE:O	1:l:394:THR:N	2.51	0.44
1:n:392:ILE:O	1:n:394:THR:N	2.51	0.44
1:M:392:ILE:O	1:M:394:THR:N	2.51	0.44
1:P:392:ILE:O	1:P:394:THR:N	2.51	0.44
1:W:392:ILE:O	1:W:394:THR:N	2.51	0.44
1:Y:392:ILE:O	1:Y:394:THR:N	2.51	0.44
1:g:139:ASP:N	1:g:139:ASP:OD1	2.47	0.44
1:g:392:ILE:O	1:g:394:THR:N	2.51	0.44
1:h:169:ILE:HG22	1:h:408:ALA:HB1	1.99	0.44
1:h:392:ILE:O	1:h:394:THR:N	2.51	0.44
1:i:392:ILE:O	1:i:394:THR:N	2.51	0.44
1:n:169:ILE:HG22	1:n:408:ALA:HB1	1.99	0.44
1:L:169:ILE:HG22	1:L:408:ALA:HB1	1.99	0.43
1:O:392:ILE:O	1:O:394:THR:N	2.51	0.43
1:g:169:ILE:HG22	1:g:408:ALA:HB1	1.99	0.43
1:j:392:ILE:O	1:j:394:THR:N	2.51	0.43
1:k:169:ILE:HG22	1:k:408:ALA:HB1	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:169:ILE:HG22	1:F:408:ALA:HB1	1.99	0.43
1:P:96:ALA:O	1:P:99:SER:OG	2.31	0.43
1:P:169:ILE:HG22	1:P:408:ALA:HB1	1.99	0.43
1:h:128:ASP:O	1:h:129:THR:OG1	2.31	0.43
1:K:169:ILE:HG22	1:K:408:ALA:HB1	1.99	0.43
1:X:392:ILE:O	1:X:394:THR:N	2.51	0.43
1:b:169:ILE:HG22	1:b:408:ALA:HB1	1.99	0.43
1:f:169:ILE:HG22	1:f:408:ALA:HB1	1.99	0.43
1:m:169:ILE:HG22	1:m:408:ALA:HB1	1.99	0.43
1:C:392:ILE:O	1:C:394:THR:N	2.51	0.43
1:D:482:ALA:O	1:D:485:SER:OG	2.35	0.43
1:E:392:ILE:O	1:E:394:THR:N	2.51	0.43
1:a:169:ILE:HG22	1:a:408:ALA:HB1	1.99	0.43
1:b:392:ILE:O	1:b:394:THR:N	2.51	0.43
1:f:139:ASP:N	1:f:139:ASP:OD1	2.47	0.43
1:i:128:ASP:O	1:i:129:THR:OG1	2.31	0.43
1:G:392:ILE:O	1:G:394:THR:N	2.51	0.43
1:J:482:ALA:O	1:J:485:SER:OG	2.35	0.43
1:V:169:ILE:HG22	1:V:408:ALA:HB1	1.99	0.43
1:Z:392:ILE:O	1:Z:394:THR:N	2.51	0.43
1:f:96:ALA:O	1:f:99:SER:OG	2.31	0.43
1:D:392:ILE:O	1:D:394:THR:N	2.51	0.43
1:N:392:ILE:O	1:N:394:THR:N	2.51	0.43
1:G:482:ALA:O	1:G:485:SER:OG	2.35	0.43
1:H:392:ILE:O	1:H:394:THR:N	2.51	0.43
1:Q:169:ILE:HG22	1:Q:408:ALA:HB1	1.99	0.43
1:R:392:ILE:O	1:R:394:THR:N	2.51	0.43
1:m:82:LEU:O	1:m:86:THR:OG1	2.18	0.43
1:h:139:ASP:OD1	1:h:139:ASP:N	2.47	0.43
1:k:139:ASP:N	1:k:139:ASP:OD1	2.47	0.43
1:a:139:ASP:N	1:a:139:ASP:OD1	2.47	0.43
1:Q:139:ASP:N	1:Q:139:ASP:OD1	2.47	0.43
1:B:139:ASP:OD1	1:B:139:ASP:N	2.47	0.42
1:g:96:ALA:O	1:g:99:SER:OG	2.31	0.42
1:L:482:ALA:O	1:L:485:SER:OG	2.35	0.42
1:X:128:ASP:O	1:X:129:THR:OG1	2.31	0.42
1:e:482:ALA:O	1:e:485:SER:OG	2.35	0.42
1:R:482:ALA:O	1:R:485:SER:OG	2.35	0.42
1:a:483:VAL:O	1:a:486:LEU:N	2.51	0.42
1:L:139:ASP:N	1:L:139:ASP:OD1	2.47	0.42
1:P:128:ASP:O	1:P:129:THR:OG1	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:482:ALA:O	1:F:485:SER:OG	2.35	0.42
1:T:29:LEU:HD22	1:d:472:ILE:HG23	2.02	0.42
1:D:483:VAL:O	1:D:486:LEU:N	2.51	0.42
1:F:96:ALA:O	1:F:99:SER:OG	2.31	0.42
1:I:139:ASP:OD1	1:I:139:ASP:N	2.47	0.42
1:O:483:VAL:O	1:O:486:LEU:N	2.51	0.42
1:X:139:ASP:N	1:X:139:ASP:OD1	2.47	0.42
1:d:29:LEU:HD22	1:n:472:ILE:HG23	2.02	0.42
1:m:483:VAL:O	1:m:486:LEU:N	2.51	0.42
1:n:139:ASP:N	1:n:139:ASP:OD1	2.47	0.42
1:D:139:ASP:OD1	1:D:139:ASP:N	2.47	0.42
1:d:139:ASP:N	1:d:139:ASP:OD1	2.47	0.42
1:L:396:ASP:O	1:L:400:ASN:ND2	2.53	0.42
1:N:139:ASP:OD1	1:N:139:ASP:N	2.47	0.42
1:Q:396:ASP:O	1:Q:400:ASN:ND2	2.53	0.42
1:V:139:ASP:N	1:V:139:ASP:OD1	2.47	0.42
1:b:29:LEU:HD22	1:l:472:ILE:HG23	2.02	0.42
1:c:396:ASP:O	1:c:400:ASN:ND2	2.53	0.42
1:h:96:ALA:O	1:h:99:SER:OG	2.31	0.42
1:l:396:ASP:O	1:l:400:ASN:ND2	2.53	0.42
1:A:396:ASP:O	1:A:400:ASN:ND2	2.53	0.42
1:E:29:LEU:HD22	1:F:472:ILE:HG23	2.02	0.42
1:K:396:ASP:O	1:K:400:ASN:ND2	2.53	0.42
1:R:29:LEU:HD22	1:b:472:ILE:HG23	2.02	0.42
1:X:396:ASP:O	1:X:400:ASN:ND2	2.53	0.42
1:Z:396:ASP:O	1:Z:400:ASN:ND2	2.53	0.42
1:n:482:ALA:O	1:n:485:SER:OG	2.35	0.42
1:B:396:ASP:O	1:B:400:ASN:ND2	2.53	0.42
1:C:29:LEU:HD22	1:H:472:ILE:HG23	2.02	0.42
1:E:396:ASP:O	1:E:400:ASN:ND2	2.53	0.42
1:H:29:LEU:HD22	1:R:472:ILE:HG23	2.02	0.42
1:I:396:ASP:O	1:I:400:ASN:ND2	2.53	0.42
1:V:482:ALA:O	1:V:485:SER:OG	2.35	0.42
1:W:396:ASP:O	1:W:400:ASN:ND2	2.53	0.42
1:e:396:ASP:O	1:e:400:ASN:ND2	2.53	0.42
1:m:396:ASP:O	1:m:400:ASN:ND2	2.53	0.42
1:o:396:ASP:O	1:o:400:ASN:ND2	2.53	0.42
1:C:483:VAL:O	1:C:486:LEU:N	2.51	0.41
1:D:396:ASP:O	1:D:400:ASN:ND2	2.53	0.41
1:N:396:ASP:O	1:N:400:ASN:ND2	2.53	0.41
1:O:472:ILE:HG23	1:Y:29:LEU:HD22	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:128:ASP:O	1:R:129:THR:OG1	2.31	0.41
1:i:396:ASP:O	1:i:400:ASN:ND2	2.53	0.41
1:j:396:ASP:O	1:j:400:ASN:ND2	2.53	0.41
1:E:472:ILE:HG23	1:O:29:LEU:HD22	2.02	0.41
1:F:29:LEU:HD22	1:P:472:ILE:HG23	2.02	0.41
1:Q:472:ILE:HG23	1:a:29:LEU:HD22	2.02	0.41
1:T:139:ASP:N	1:T:139:ASP:OD1	2.47	0.41
1:C:396:ASP:O	1:C:400:ASN:ND2	2.53	0.41
1:H:396:ASP:O	1:H:400:ASN:ND2	2.53	0.41
1:J:29:LEU:HD22	1:T:472:ILE:HG23	2.02	0.41
1:N:128:ASP:O	1:N:129:THR:OG1	2.31	0.41
1:N:482:ALA:O	1:N:485:SER:OG	2.35	0.41
1:P:482:ALA:O	1:P:485:SER:OG	2.35	0.41
1:V:29:LEU:HD22	1:f:472:ILE:HG23	2.02	0.41
1:a:472:ILE:HG23	1:k:29:LEU:HD22	2.02	0.41
1:d:482:ALA:O	1:d:485:SER:OG	2.35	0.41
1:A:139:ASP:OD1	1:A:139:ASP:N	2.47	0.41
1:I:483:VAL:O	1:I:486:LEU:N	2.51	0.41
1:M:396:ASP:O	1:M:400:ASN:ND2	2.53	0.41
1:T:396:ASP:O	1:T:400:ASN:ND2	2.53	0.41
1:a:396:ASP:O	1:a:400:ASN:ND2	2.53	0.41
1:o:482:ALA:O	1:o:485:SER:OG	2.35	0.41
1:A:29:LEU:HD22	1:J:472:ILE:HG23	2.02	0.41
1:C:472:ILE:HG23	1:M:29:LEU:HD22	2.02	0.41
1:F:396:ASP:O	1:F:400:ASN:ND2	2.53	0.41
1:G:396:ASP:O	1:G:400:ASN:ND2	2.53	0.41
1:P:29:LEU:HD22	1:Z:472:ILE:HG23	2.02	0.41
1:P:396:ASP:O	1:P:400:ASN:ND2	2.53	0.41
1:S:128:ASP:O	1:S:129:THR:OG1	2.31	0.41
1:Y:396:ASP:O	1:Y:400:ASN:ND2	2.53	0.41
1:Y:472:ILE:HG23	1:i:29:LEU:HD22	2.02	0.41
1:c:472:ILE:HG23	1:m:29:LEU:HD22	2.02	0.41
1:g:396:ASP:O	1:g:400:ASN:ND2	2.53	0.41
1:h:396:ASP:O	1:h:400:ASN:ND2	2.53	0.41
1:k:396:ASP:O	1:k:400:ASN:ND2	2.53	0.41
1:D:472:ILE:HG23	1:G:29:LEU:HD22	2.02	0.41
1:G:472:ILE:HG23	1:Q:29:LEU:HD22	2.03	0.41
1:J:396:ASP:O	1:J:400:ASN:ND2	2.53	0.41
1:R:396:ASP:O	1:R:400:ASN:ND2	2.53	0.41
1:b:396:ASP:O	1:b:400:ASN:ND2	2.53	0.41
1:d:396:ASP:O	1:d:400:ASN:ND2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:f:396:ASP:O	1:f:400:ASN:ND2	2.53	0.41
1:h:483:VAL:O	1:h:486:LEU:N	2.51	0.41
1:M:472:ILE:HG23	1:W:29:LEU:HD22	2.02	0.41
1:O:396:ASP:O	1:O:400:ASN:ND2	2.53	0.41
1:S:396:ASP:O	1:S:400:ASN:ND2	2.53	0.41
1:V:396:ASP:O	1:V:400:ASN:ND2	2.53	0.41
1:n:396:ASP:O	1:n:400:ASN:ND2	2.53	0.41
1:J:483:VAL:O	1:J:486:LEU:N	2.51	0.41
1:S:139:ASP:OD1	1:S:139:ASP:N	2.47	0.41
1:X:482:ALA:O	1:X:485:SER:OG	2.35	0.41
1:Z:29:LEU:HD22	1:j:472:ILE:HG23	2.02	0.41
1:e:128:ASP:O	1:e:129:THR:OG1	2.31	0.41
1:f:482:ALA:O	1:f:485:SER:OG	2.35	0.41
1:l:483:VAL:O	1:l:486:LEU:N	2.51	0.41
1:O:136:LYS:HE2	1:O:139:ASP:OD1	2.21	0.41
1:O:482:ALA:O	1:O:485:SER:OG	2.35	0.41
1:Q:136:LYS:HE2	1:Q:139:ASP:OD1	2.21	0.41
1:R:136:LYS:HE2	1:R:139:ASP:OD1	2.21	0.41
1:S:472:ILE:HG23	1:c:29:LEU:HD22	2.02	0.41
1:U:396:ASP:O	1:U:400:ASN:ND2	2.53	0.41
1:V:483:VAL:O	1:V:486:LEU:N	2.51	0.41
1:b:482:ALA:O	1:b:485:SER:OG	2.35	0.41
1:j:128:ASP:O	1:j:129:THR:OG1	2.31	0.41
1:l:136:LYS:HE2	1:l:139:ASP:OD1	2.21	0.41
1:E:483:VAL:O	1:E:486:LEU:N	2.51	0.41
1:L:136:LYS:HE2	1:L:139:ASP:OD1	2.21	0.41
1:T:128:ASP:O	1:T:129:THR:OG1	2.31	0.41
1:n:136:LYS:HE2	1:n:139:ASP:OD1	2.21	0.41
1:D:29:LEU:HD22	1:N:472:ILE:HG23	2.02	0.40
1:F:128:ASP:O	1:F:129:THR:OG1	2.31	0.40
1:F:136:LYS:HE2	1:F:139:ASP:OD1	2.21	0.40
1:H:483:VAL:O	1:H:486:LEU:N	2.51	0.40
1:U:136:LYS:HE2	1:U:139:ASP:OD1	2.21	0.40
1:U:472:ILE:HG23	1:e:29:LEU:HD22	2.02	0.40
1:U:483:VAL:O	1:U:486:LEU:N	2.51	0.40
1:V:136:LYS:HE2	1:V:139:ASP:OD1	2.21	0.40
1:A:472:ILE:HG23	1:K:29:LEU:HD22	2.02	0.40
1:B:29:LEU:HD22	1:L:472:ILE:HG23	2.02	0.40
1:K:136:LYS:HE2	1:K:139:ASP:OD1	2.21	0.40
1:M:159:ILE:HD11	1:M:426:PHE:HZ	1.87	0.40
1:P:136:LYS:HE2	1:P:139:ASP:OD1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:136:LYS:HE2	1:T:139:ASP:OD1	2.21	0.40
1:V:159:ILE:HD11	1:V:426:PHE:HZ	1.87	0.40
1:W:472:ILE:HG23	1:g:29:LEU:HD22	2.02	0.40
1:g:159:ILE:HD11	1:g:426:PHE:HZ	1.87	0.40
1:k:136:LYS:HE2	1:k:139:ASP:OD1	2.21	0.40
1:J:139:ASP:N	1:J:139:ASP:OD1	2.47	0.40
1:K:472:ILE:HG23	1:U:29:LEU:HD22	2.02	0.40
1:L:483:VAL:O	1:L:486:LEU:N	2.51	0.40
1:O:159:ILE:HD11	1:O:426:PHE:HZ	1.87	0.40
1:S:136:LYS:HE2	1:S:139:ASP:OD1	2.21	0.40
1:Y:159:ILE:HD11	1:Y:426:PHE:HZ	1.87	0.40
1:e:136:LYS:HE2	1:e:139:ASP:OD1	2.21	0.40
1:f:159:ILE:HD11	1:f:426:PHE:HZ	1.87	0.40
1:k:482:ALA:O	1:k:485:SER:OG	2.35	0.40
1:A:159:ILE:HD11	1:A:426:PHE:HZ	1.87	0.40
1:B:136:LYS:HE2	1:B:139:ASP:OD1	2.21	0.40
1:H:136:LYS:HE2	1:H:139:ASP:OD1	2.21	0.40
1:H:159:ILE:HD11	1:H:426:PHE:HZ	1.87	0.40
1:K:159:ILE:HD11	1:K:426:PHE:HZ	1.87	0.40
1:L:29:LEU:HD22	1:V:472:ILE:HG23	2.02	0.40
1:N:29:LEU:HD22	1:X:472:ILE:HG23	2.02	0.40
1:X:29:LEU:HD22	1:h:472:ILE:HG23	2.02	0.40
1:f:136:LYS:HE2	1:f:139:ASP:OD1	2.21	0.40
1:m:136:LYS:HE2	1:m:139:ASP:OD1	2.21	0.40
1:A:136:LYS:HE2	1:A:139:ASP:OD1	2.21	0.40
1:D:136:LYS:HE2	1:D:139:ASP:OD1	2.21	0.40
1:I:472:ILE:HG23	1:S:29:LEU:HD22	2.02	0.40
1:J:159:ILE:HD11	1:J:426:PHE:HZ	1.87	0.40
1:M:136:LYS:HE2	1:M:139:ASP:OD1	2.21	0.40
1:Q:483:VAL:O	1:Q:486:LEU:N	2.51	0.40
1:R:159:ILE:HD11	1:R:426:PHE:HZ	1.87	0.40
1:Z:482:ALA:O	1:Z:485:SER:OG	2.35	0.40
1:d:159:ILE:HD11	1:d:426:PHE:HZ	1.87	0.40
1:l:482:ALA:O	1:l:485:SER:OG	2.35	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains [i](#)

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

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.

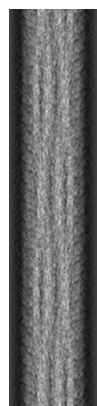
6 Map visualisation ⓘ

This section contains visualisations of the EMDB entry EMD-8855. These allow visual inspection of the internal detail of the map and identification of artifacts.

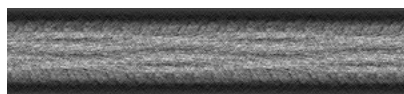
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections ⓘ

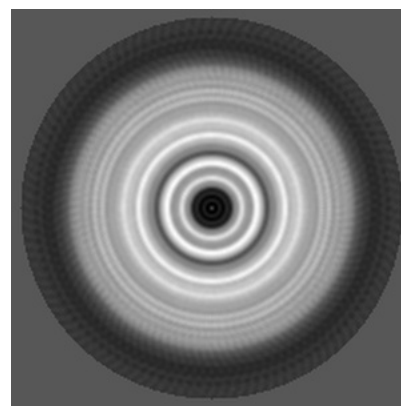
6.1.1 Primary map



X



Y

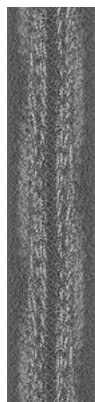


Z

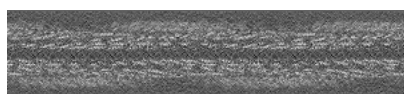
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

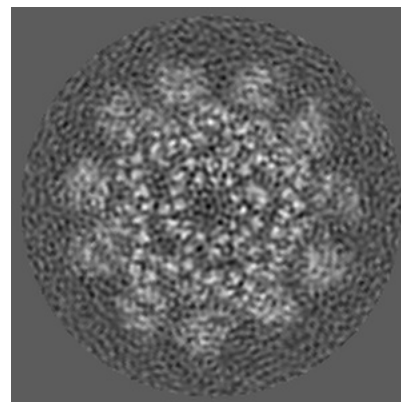
6.2.1 Primary map



X
Index:
110



Y Index: 110

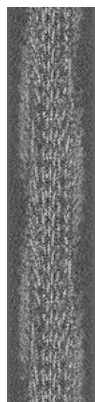


Z Index: 500

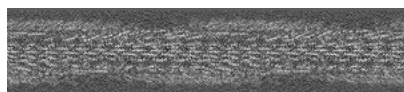
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

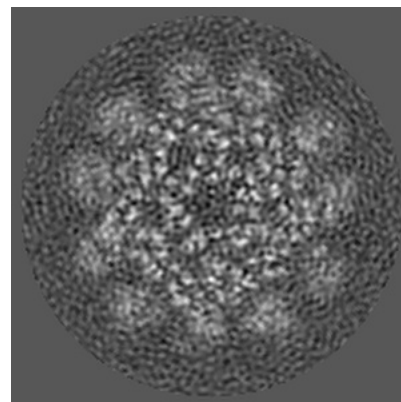
6.3.1 Primary map



X
Index:
126



Y Index: 126

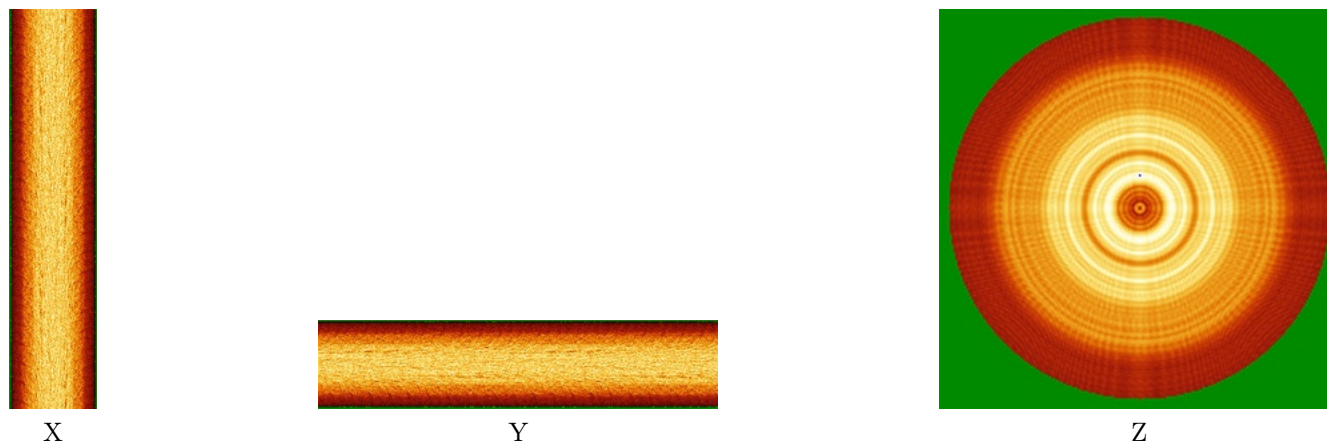


Z Index: 472

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

6.4 Orthogonal standard-deviation projections (False-color) [i](#)

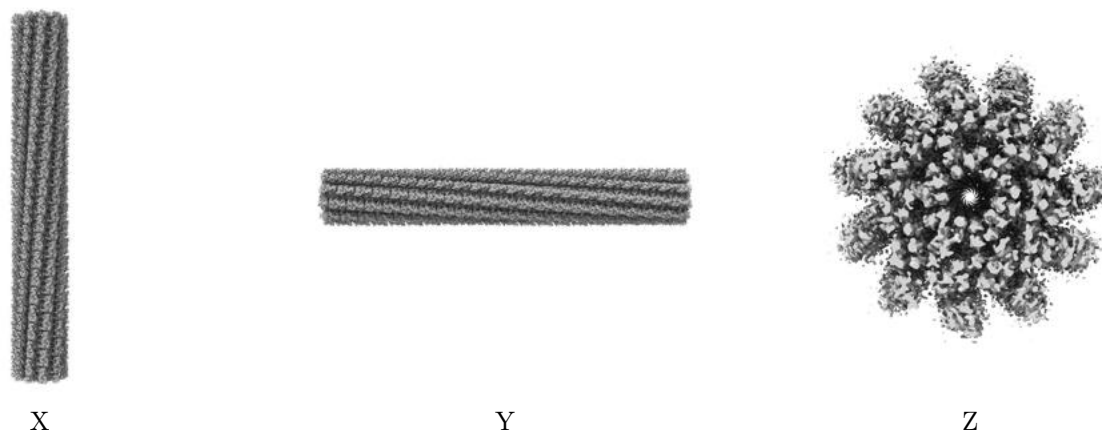
6.4.1 Primary map



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 0.76. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

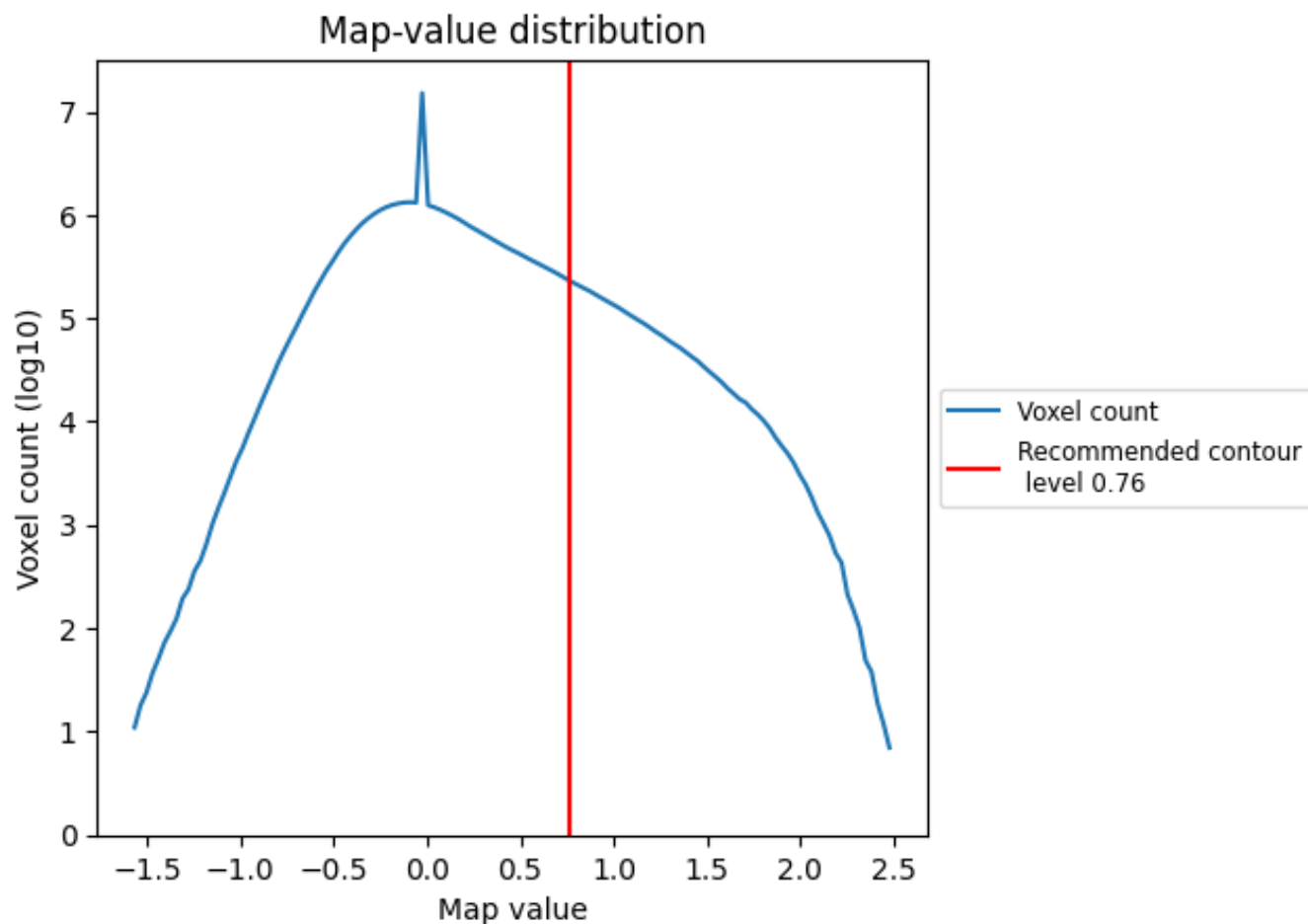
6.6 Mask visualisation

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

7 Map analysis [i](#)

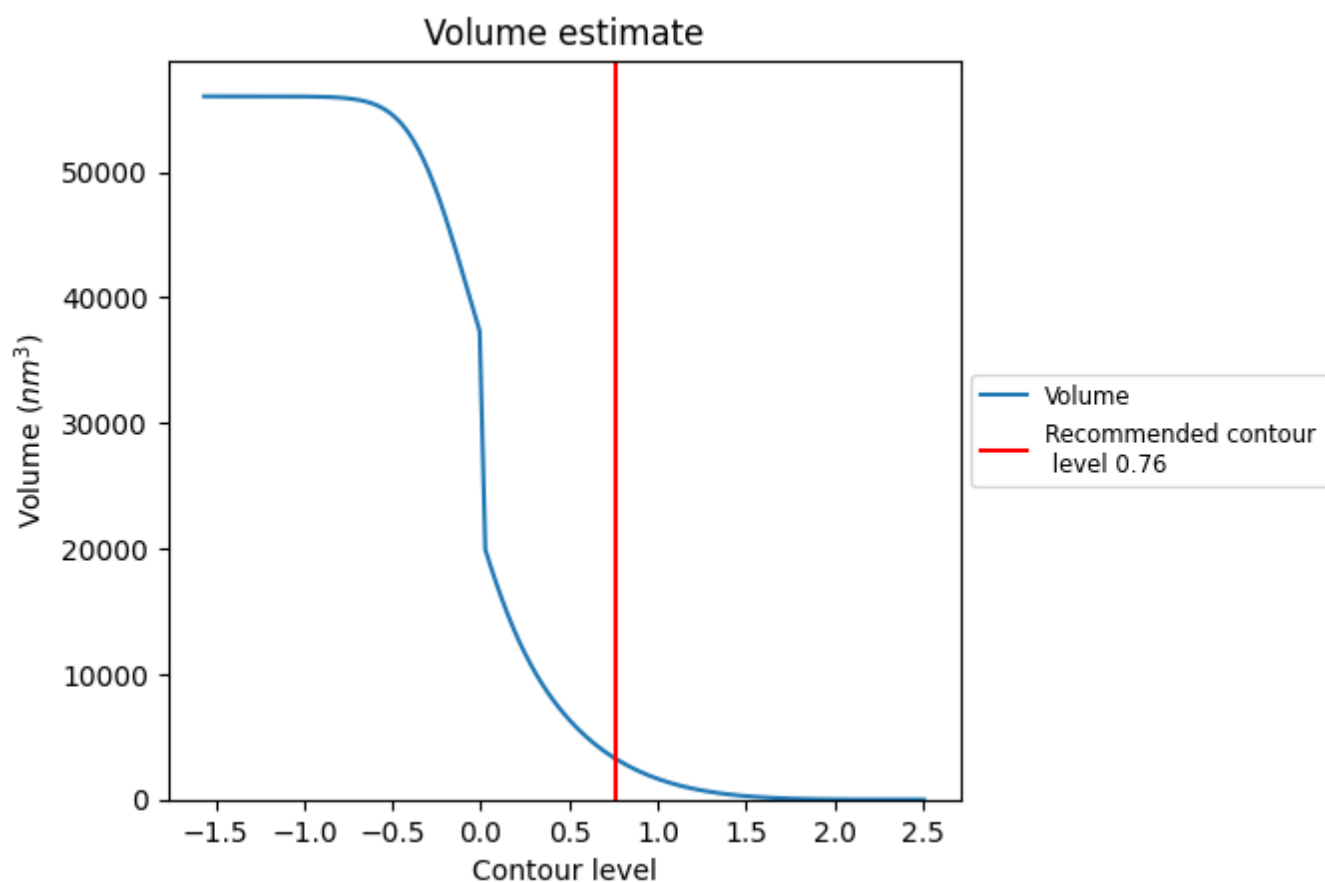
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

7.2 Volume estimate [i](#)



The volume at the recommended contour level is 3277 nm³; this corresponds to an approximate mass of 2960 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](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

8 Fourier-Shell correlation

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

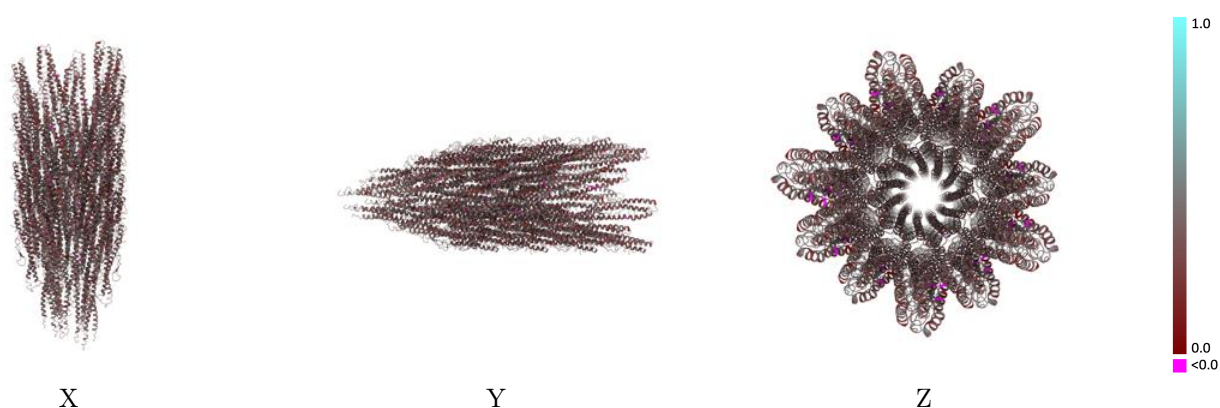
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-8855 and PDB model 5WK5. Per-residue inclusion information can be found in section [3](#) on page [9](#).

9.1 Map-model overlay [i](#)

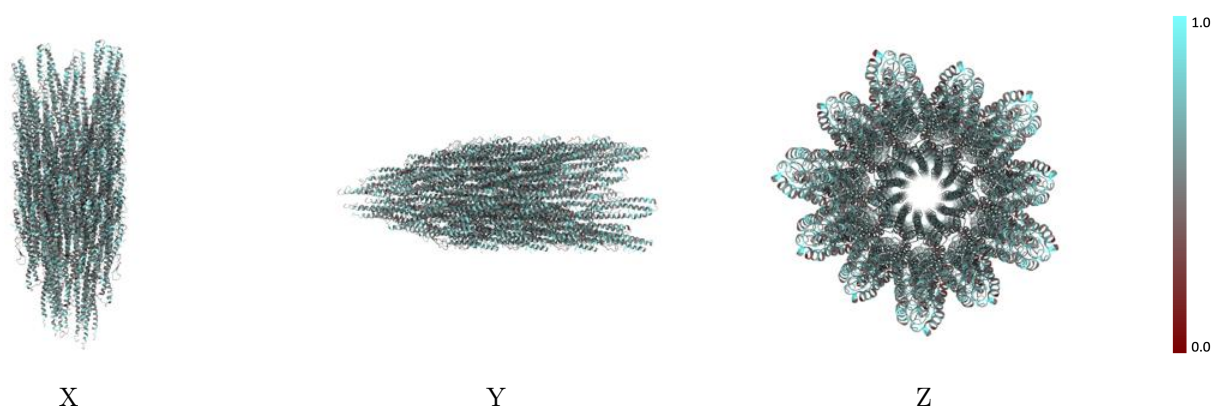
This section was not generated.

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



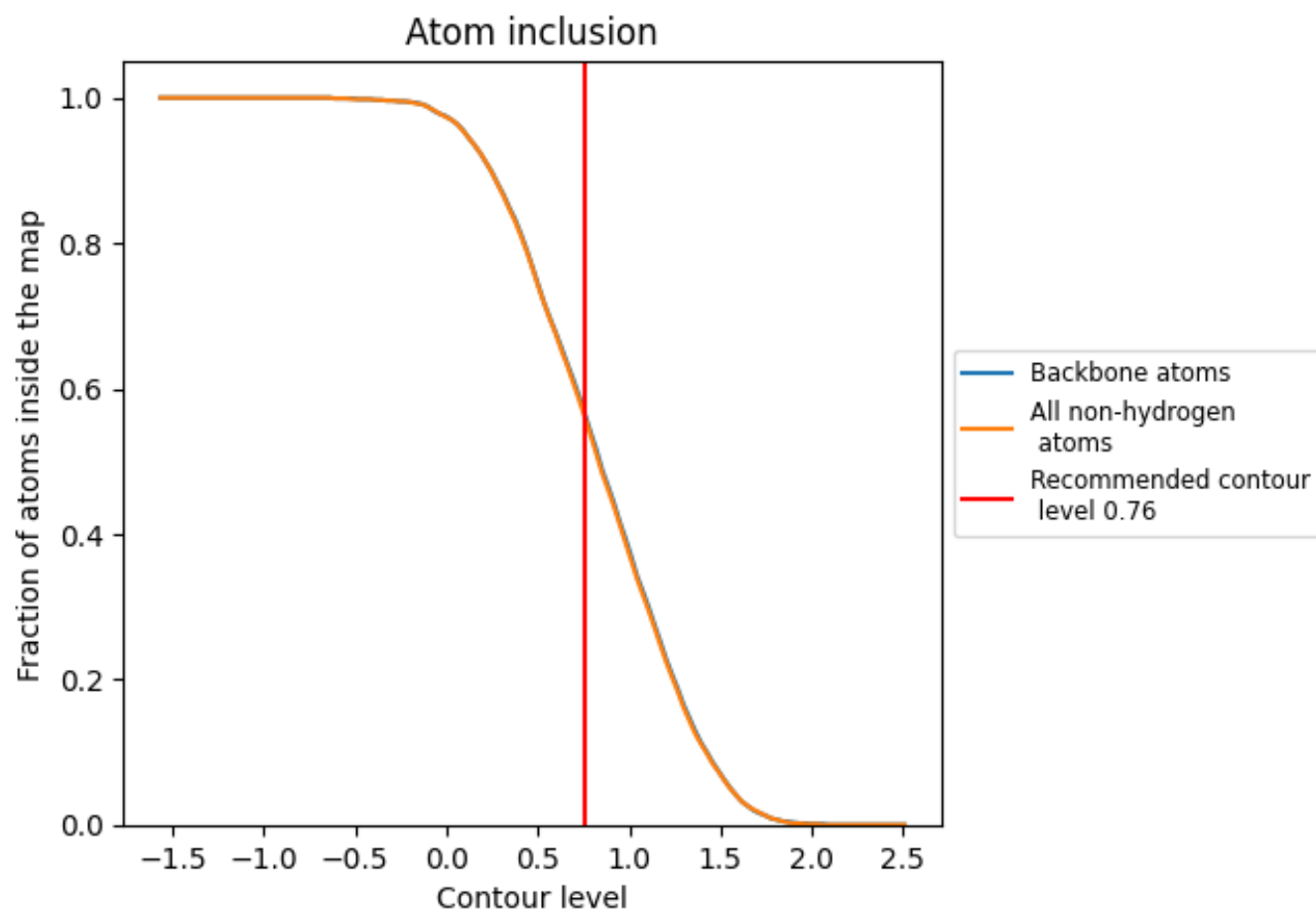
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions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

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.76).

9.4 Atom inclusion [i](#)



At the recommended contour level, 56% of all backbone atoms, 56% 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 (0.76) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5590	 0.3440
A	 0.5640	 0.3430
B	 0.5690	 0.3430
C	 0.5650	 0.3440
D	 0.5710	 0.3450
E	 0.5660	 0.3450
F	 0.5620	 0.3440
G	 0.5650	 0.3460
H	 0.5630	 0.3450
I	 0.5660	 0.3460
J	 0.5660	 0.3450
K	 0.5670	 0.3440
L	 0.5660	 0.3440
M	 0.5720	 0.3440
N	 0.5670	 0.3440
O	 0.5630	 0.3450
P	 0.5670	 0.3440
Q	 0.5630	 0.3440
R	 0.5680	 0.3460
S	 0.5660	 0.3450
T	 0.5710	 0.3460
U	 0.5690	 0.3440
V	 0.5690	 0.3440
W	 0.5700	 0.3440
X	 0.5650	 0.3440
Y	 0.5700	 0.3440
Z	 0.5680	 0.3430
a	 0.5700	 0.3430
b	 0.5610	 0.3440
c	 0.5670	 0.3460
d	 0.5710	 0.3440
e	 0.5630	 0.3450
f	 0.5660	 0.3430
g	 0.5670	 0.3440
h	 0.5720	 0.3430



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Chain	Atom inclusion	Q-score
i	 0.5670	 0.3440
j	 0.5670	 0.3440
k	 0.5630	 0.3460
l	 0.5620	 0.3450
m	 0.5650	 0.3440
n	 0.5660	 0.3450
o	 0.5690	 0.3450