Full wwPDB EM Validation Report (i)

Feb 12, 2024 – 12:15 PM EST

PDB ID	:	3J6D
EMDB ID	:	EMD-1875
Title	:	Model of the PrgH-PrgK periplasmic rings
Authors	:	Bergeron, J.R.C.; Strynadka, N.C.J.
Deposited on	:	2014-02-14
Resolution	:	11.70 Å(reported)
Based on initial models	:	4OYC, 4G1I, 1MKY

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

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

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

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

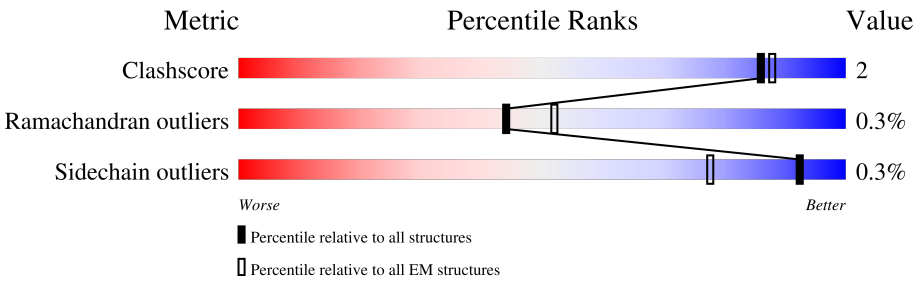
EMDB validation analysis	:	0.0.1.dev70
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 11.70 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	392	48% • 51%
1	B	392	47% • 51%
1	C	392	47% • 51%
1	D	392	48% • 51%
1	E	392	48% • 51%
1	F	392	48% • 51%
1	G	392	48% • 51%
1	H	392	48% • 51%

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Mol	Chain	Length	Quality of chain
1	I	392	48% 51%
1	J	392	48% 51%
1	K	392	48% 51%
1	L	392	48% 51%
1	M	392	48% 51%
1	N	392	48% 51%
1	O	392	48% 51%
1	P	392	48% 51%
1	Q	392	48% 51%
1	R	392	48% 51%
1	S	392	48% 51%
1	T	392	48% 51%
1	U	392	47% 51%
1	V	392	47% 51%
1	W	392	48% 51%
1	X	392	48% 51%
2	Y	252	21% 56% 41%
2	Z	252	21% 56% 41%
2	a	252	21% 59% 41%
2	b	252	21% 59% 41%
2	c	252	21% 59% 41%
2	d	252	22% 59% 41%
2	e	252	21% 59% 41%
2	f	252	21% 59% 41%
2	g	252	21% 59% 41%

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Mol	Chain	Length	Quality of chain
2	h	252	21% 59% 41%
2	i	252	21% 59% 41%
2	j	252	21% 59% 41%
2	k	252	20% 59% 41%
2	l	252	22% 59% 41%
2	m	252	21% 59% 41%
2	n	252	21% 59% 41%
2	o	252	21% 59% 41%
2	p	252	21% 59% 41%
2	q	252	21% 59% 41%
2	r	252	21% 59% 41%
2	s	252	21% 59% 41%
2	t	252	22% 59% 41%
2	u	252	21% 59% 41%
2	v	252	21% 59% 41%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 65952 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 Protein PrgH.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	191	1578	999	285	290	4	0	0
1	B	191	1578	999	285	290	4	0	0
1	C	191	1578	999	285	290	4	0	0
1	D	191	1578	999	285	290	4	0	0
1	E	191	1578	999	285	290	4	0	0
1	F	191	1578	999	285	290	4	0	0
1	G	191	1578	999	285	290	4	0	0
1	H	191	1578	999	285	290	4	0	0
1	I	191	1578	999	285	290	4	0	0
1	J	191	1578	999	285	290	4	0	0
1	K	191	1578	999	285	290	4	0	0
1	L	191	1578	999	285	290	4	0	0
1	M	191	1578	999	285	290	4	0	0
1	N	191	1578	999	285	290	4	0	0
1	O	191	1578	999	285	290	4	0	0
1	P	191	1578	999	285	290	4	0	0
1	Q	191	1578	999	285	290	4	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	R	191	1578	999	285	290	4	0	0
1	S	191	1578	999	285	290	4	0	0
1	T	191	1578	999	285	290	4	0	0
1	U	191	1578	999	285	290	4	0	0
1	V	191	1578	999	285	290	4	0	0
1	W	191	1578	999	285	290	4	0	0
1	X	191	1578	999	285	290	4	0	0

- Molecule 2 is a protein called Pathogenicity 1 island effector protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	a	148	1170	737	202	229	2	0	0
2	b	148	1170	737	202	229	2	0	0
2	c	148	1170	737	202	229	2	0	0
2	d	148	1170	737	202	229	2	0	0
2	e	148	1170	737	202	229	2	0	0
2	f	148	1170	737	202	229	2	0	0
2	g	148	1170	737	202	229	2	0	0
2	h	148	1170	737	202	229	2	0	0
2	i	148	1170	737	202	229	2	0	0
2	j	148	1170	737	202	229	2	0	0
2	k	148	1170	737	202	229	2	0	0
2	l	148	1170	737	202	229	2	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	m	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	n	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	o	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	p	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	q	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	r	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	s	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	t	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	u	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	v	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	Y	148	1170	737	202	229	2	0	0
			Total	C	N	O	S		
2	Z	148	1170	737	202	229	2	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Protein PrgH

Chain A:

MET GLU THR SER LYS GLU LYS THR ILE THR SER PRO GLY PRO TYR ILE VAL ARG LEU LEU ASN SER SER LEU ASN GLY CYS GLU PHE PRO LEU LEU THR GLY ARG THR LEU PHE VAL VAL GLY GLN SER ASP ALA LEU THR ALA SER GLY GLN LEU PRO ASP ILE PRO ALA ASP SER PHE

PHE ILE PRO LEU ASP HIS GLY GLY VAL ASN PHE GLU ILE GLN VAL ASP THR ASP ALA THR GLU ILE ILE LEU HIS GLU LEU LYS GLU GLY ASN SER GLU SER ARG SER VAL GLN LEU ASN THR PRO ILE GLN VAL GLY GLU LEU LEU ILE LEU ILE ARG PRO GLU SER GLU PRO TRP VAL

PRO GLU GLN PRO GLU LYS LEU GLU THR SER ALA LYS LYS ASN GLU PRO ARG PHE LYS ASN GLY ILE VAL ALA ALA LEU ALA GLY PHE PHE ILE LEU GLY ILE GLY THR VAL GLY THR LEU TRP ILE LEU ASN SER PRO GLN ARG GLN ALA ALA GLU L173 D174 S175 G178 R190 D191

Q199 K218 K320 L331 I336 Y347 K362 D363 ASP TRP LEU LYS GLY ARG SER PHE GLN TYR GLY ALA GLU GLY TYR ILE LYS MET SER PRO GLY HIS TRP TYR PHE PRO SER PRO LEU

- Molecule 1: Protein PrgH

Chain B:

MET GLU THR SER LYS GLU LYS THR ILE THR SER PRO GLY PRO TYR ILE VAL ARG LEU LEU ASN SER SER LEU ASN GLY CYS GLU PHE PRO LEU LEU THR GLY ARG THR LEU PHE VAL VAL GLY GLN SER ASP ALA LEU THR ALA SER GLY GLN LEU PRO ASP ILE PRO ALA ASP SER PHE

PHE ILE PRO LEU ASP HIS GLY GLY VAL ASN PHE GLU ILE GLN VAL ASP THR ASP ALA THR GLU ILE ILE LEU HIS GLU LEU LYS GLU GLY ASN SER GLU SER ARG SER VAL GLN LEU ASN THR PRO ILE GLN VAL GLY GLU LEU LEU ILE LEU ILE ARG PRO GLU SER GLU PRO TRP VAL

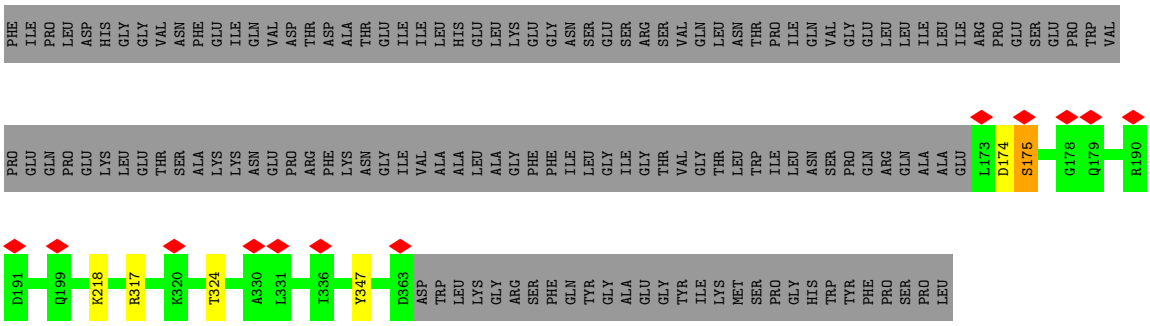
PRO GLU GLN PRO GLU LYS LEU GLU THR SER ALA LYS LYS ASN GLU PRO ARG PHE LYS ASN GLY ILE VAL ALA ALA LEU ALA GLY PHE PHE ILE LEU GLY ILE GLY THR VAL GLY THR LEU TRP ILE LEU ASN SER PRO GLN ARG GLN ALA ALA GLU L173 D174 S175 G178 R190 D191

Q199 K218 R317 K320 T324 A330 L331 I336 Y347 K362 D363 ASP TRP LEU LYS GLY ARG SER PHE GLN TYR GLY ALA GLU GLY TYR ILE LYS MET SER PRO GLY HIS TRP TYR PHE PRO SER PRO LEU

- Molecule 1: Protein PrgH

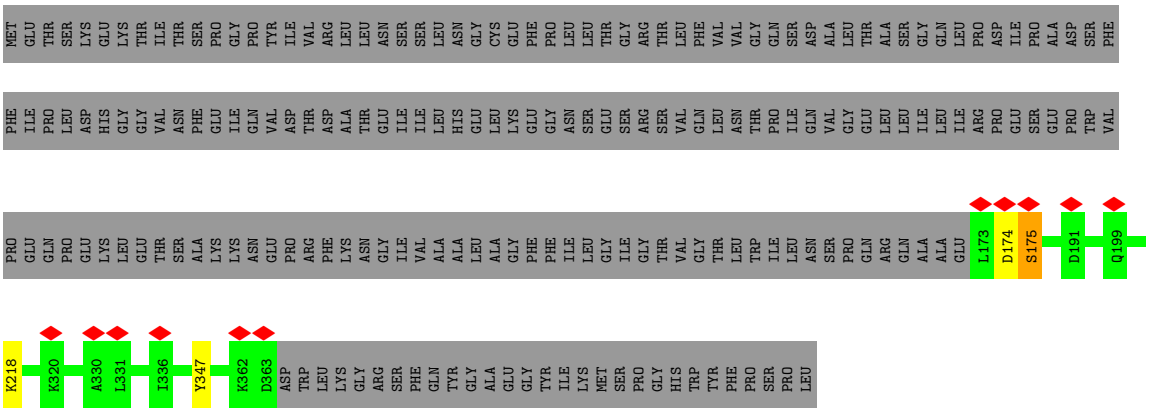
Chain C:

MET GLU THR SER LYS GLU LYS THR ILE THR SER PRO GLY PRO TYR ILE VAL ARG LEU LEU ASN SER SER LEU ASN GLY CYS GLU PHE PRO LEU LEU THR GLY ARG THR LEU PHE VAL VAL GLY GLN SER ASP ALA LEU THR ALA SER GLY GLN LEU PRO ASP ILE PRO ALA ASP SER PHE



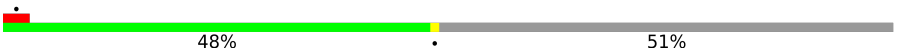
• Molecule 1: Protein PrgH

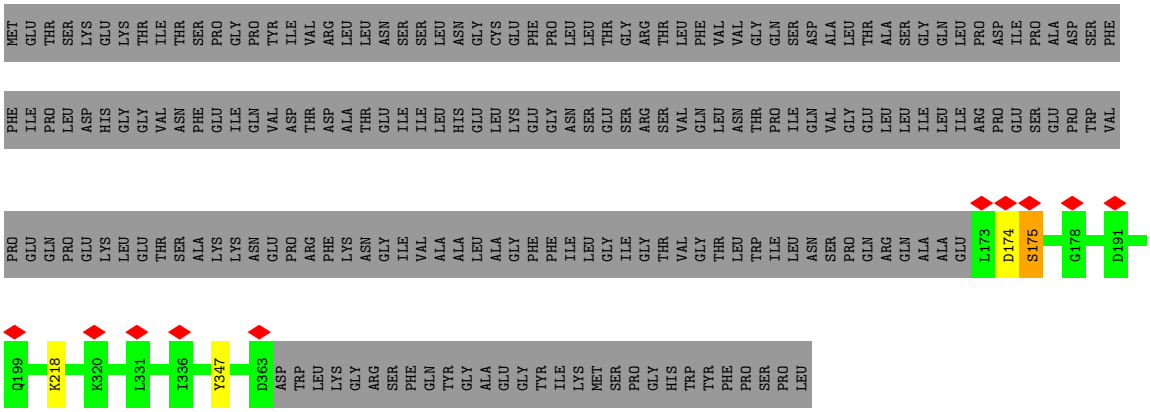
Chain D:



• Molecule 1: Protein PrgH

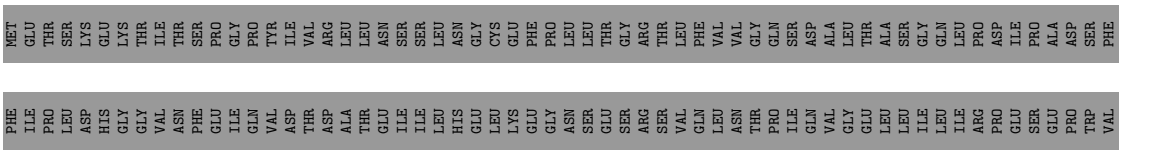
Chain E:

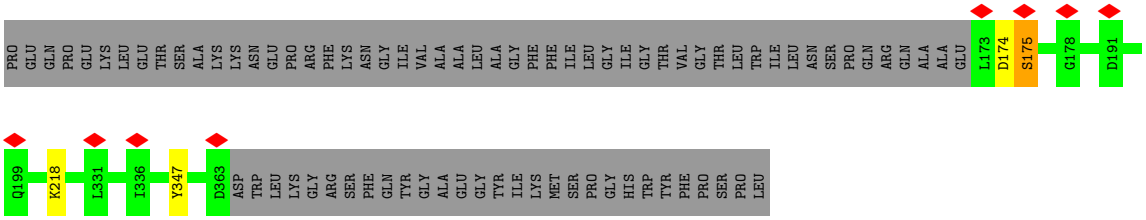




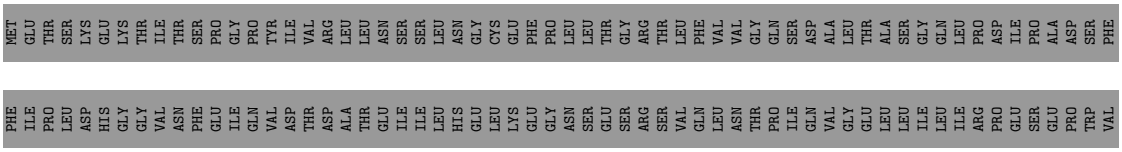
• Molecule 1: Protein PrgH

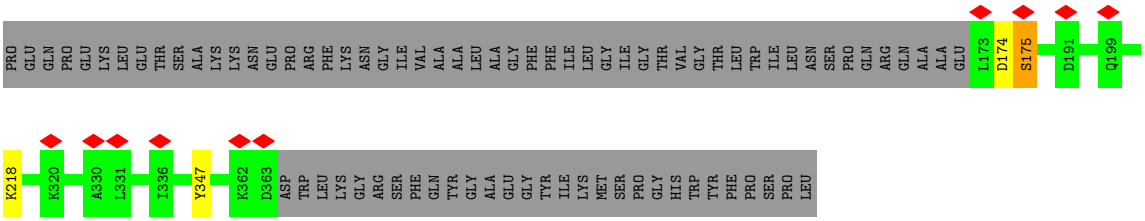
Chain F:



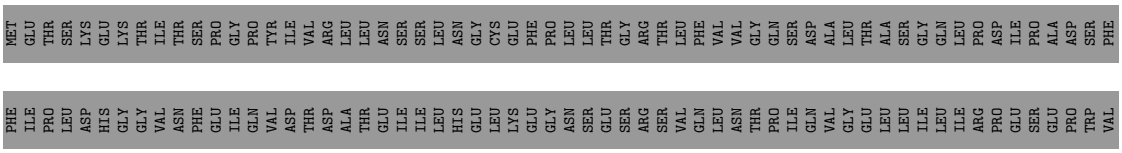


• Molecule 1: Protein PrgH

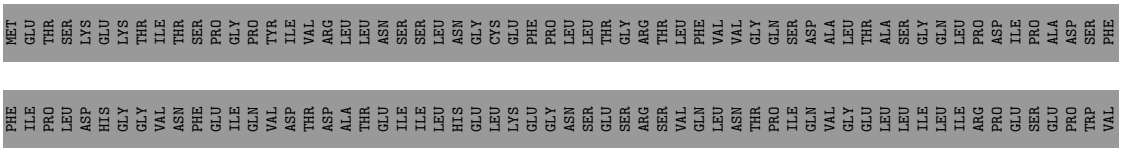




• Molecule 1: Protein PrgH

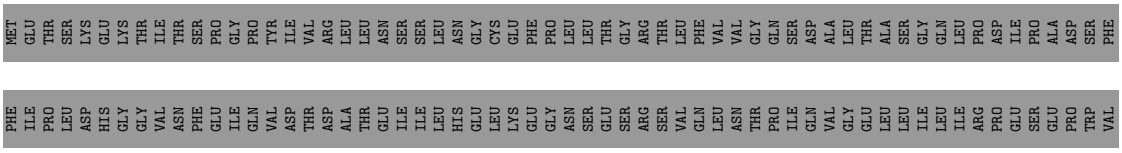


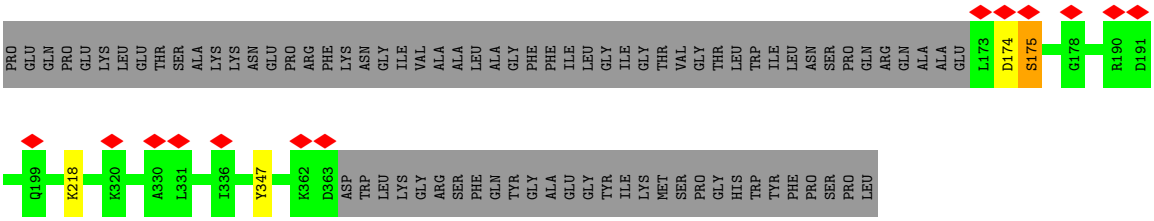
• Molecule 1: Protein PrgH



• Molecule 1: Protein PrgH

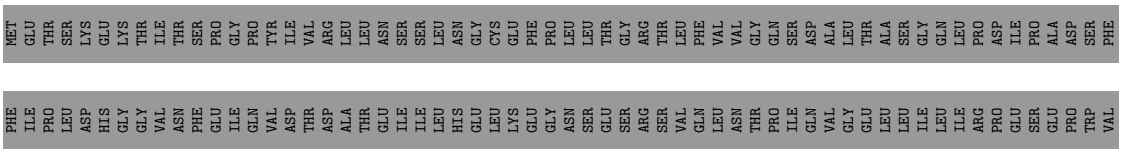
Chain J:

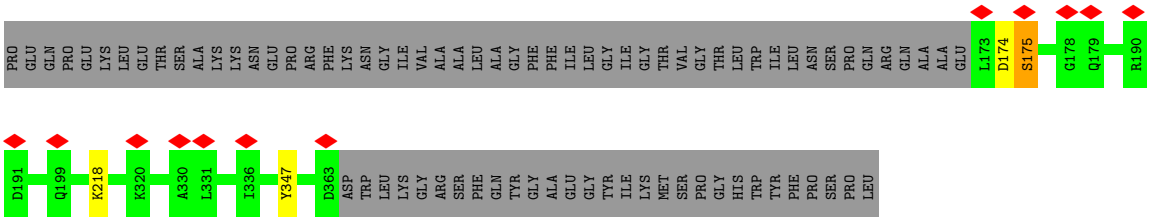




• Molecule 1: Protein PrgH

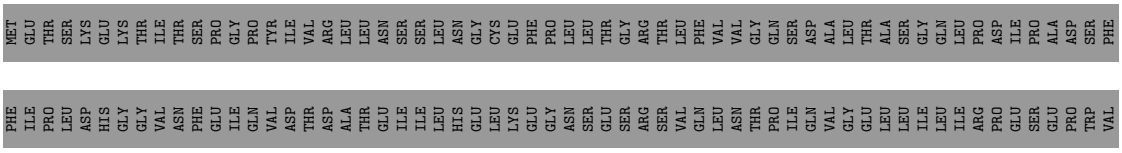
Chain K:





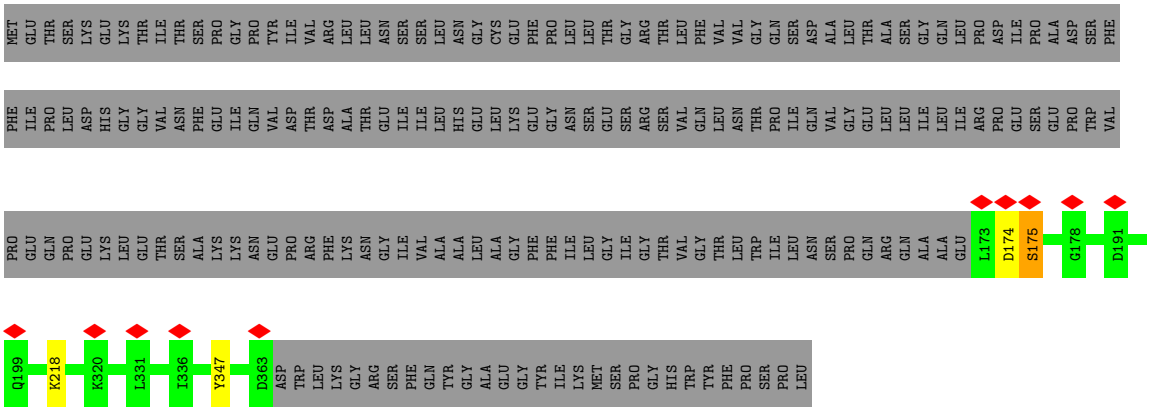
• Molecule 1: Protein PrgH

Chain L:



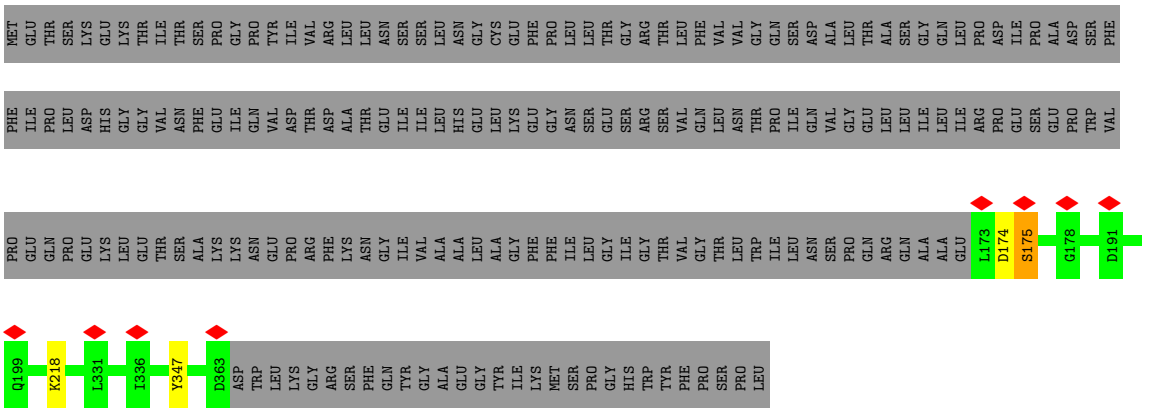
• Molecule 1: Protein PrgH

Chain M:



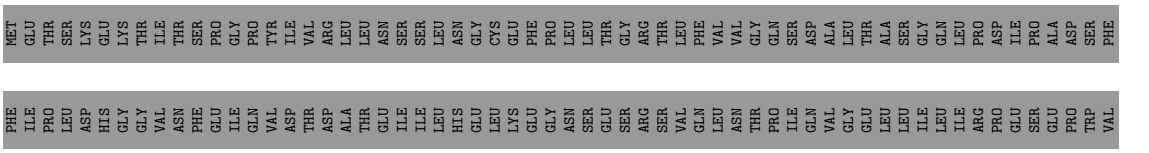
• Molecule 1: Protein PrgH

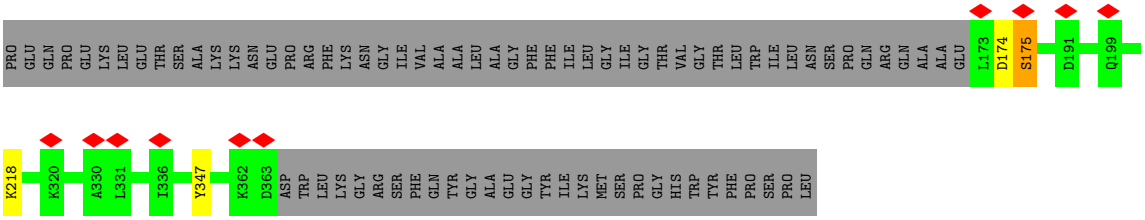
Chain N:



• Molecule 1: Protein PrgH

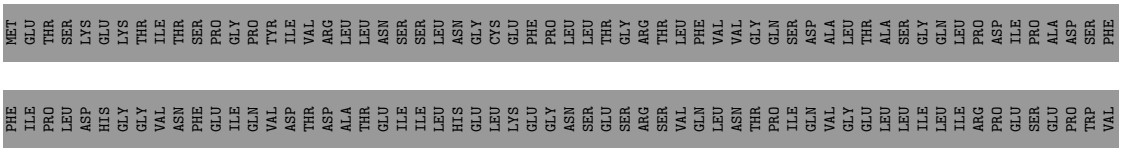
Chain O:





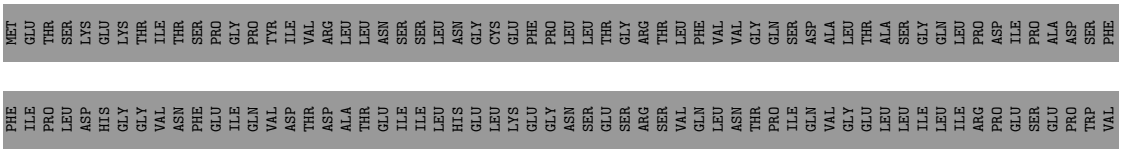
- Molecule 1: Protein PrgH

Chain P:



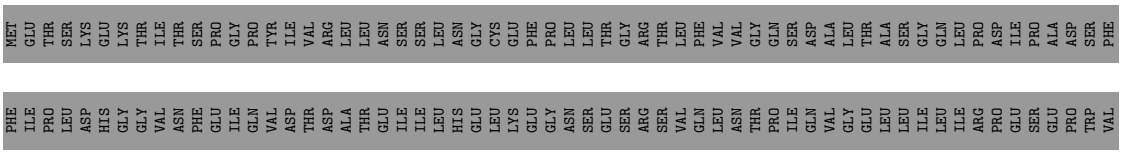
- Molecule 1: Protein PrgH

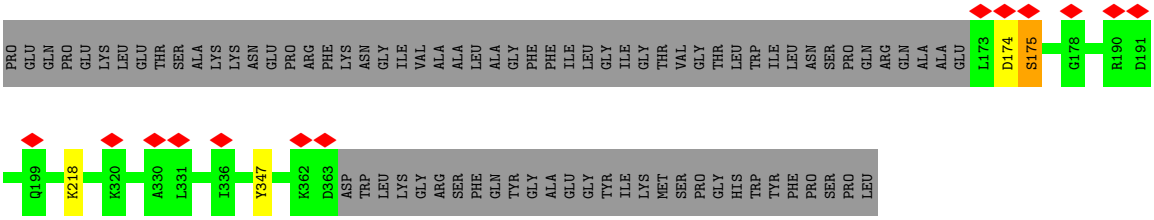
Chain Q:



- Molecule 1: Protein PrgH

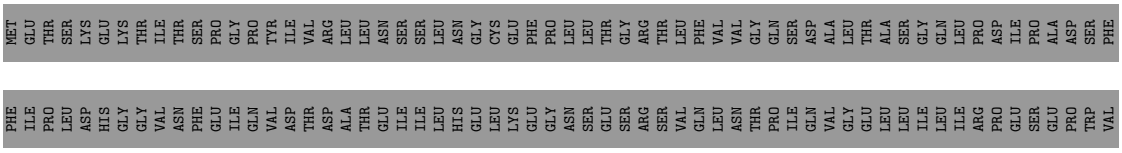
Chain R:

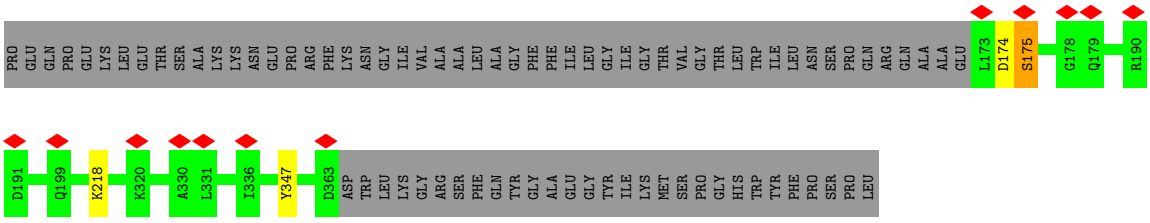




• Molecule 1: Protein PrgH

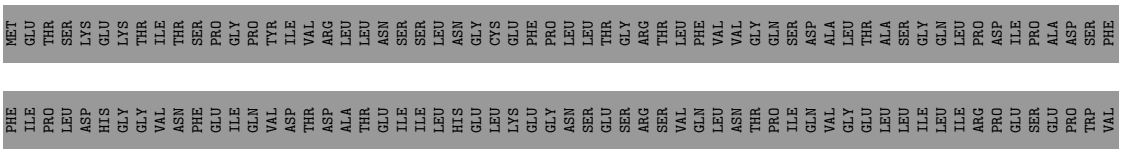
Chain S:

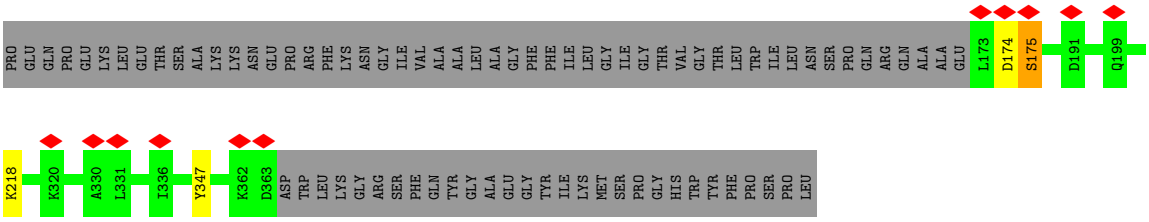




• Molecule 1: Protein PrgH

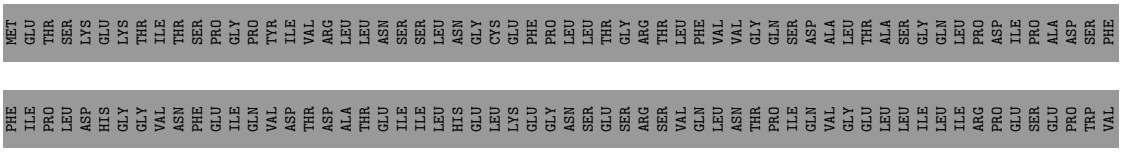
Chain T:





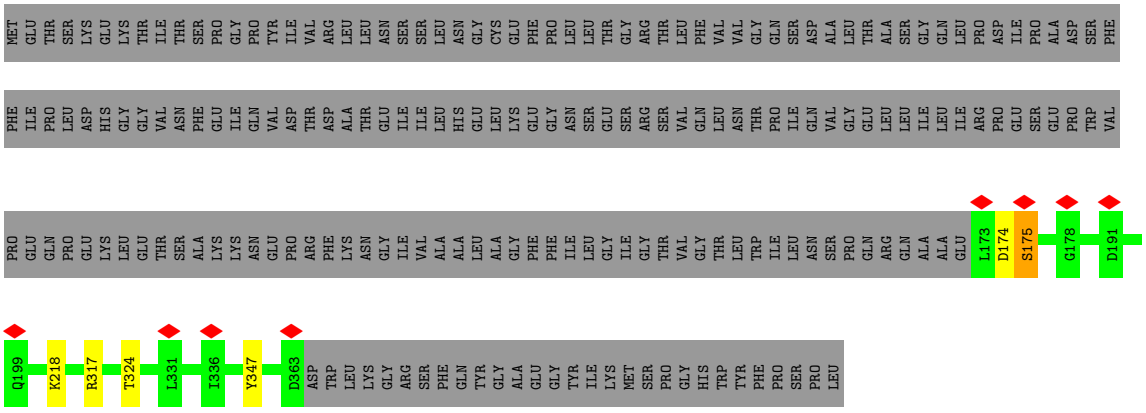
• Molecule 1: Protein PrgH

Chain U:



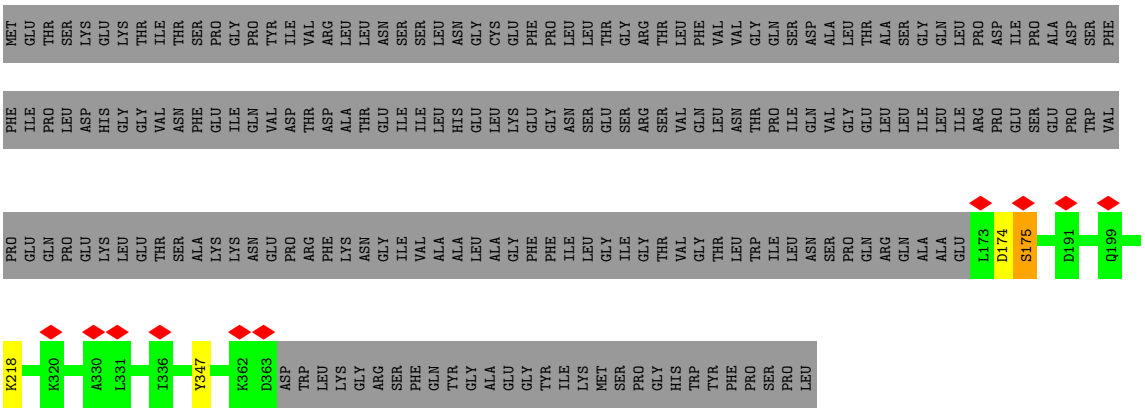
• Molecule 1: Protein PrgH

Chain V:



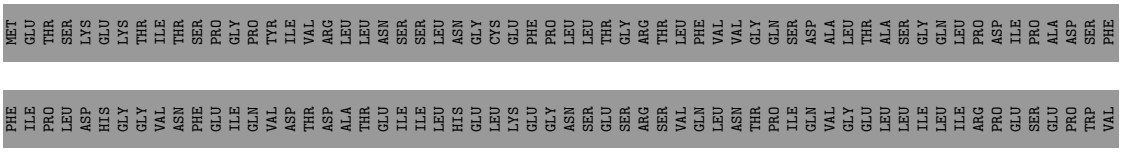
• Molecule 1: Protein PrgH

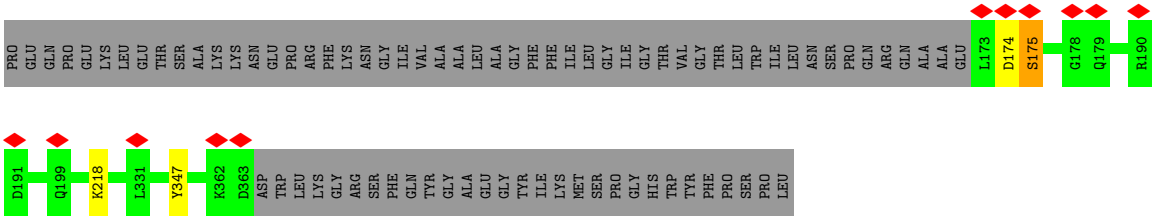
Chain W:



• Molecule 1: Protein PrgH

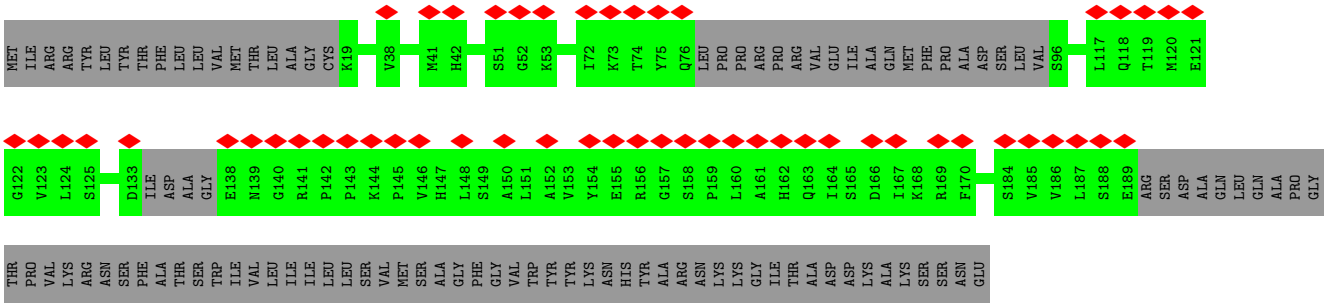
Chain X:





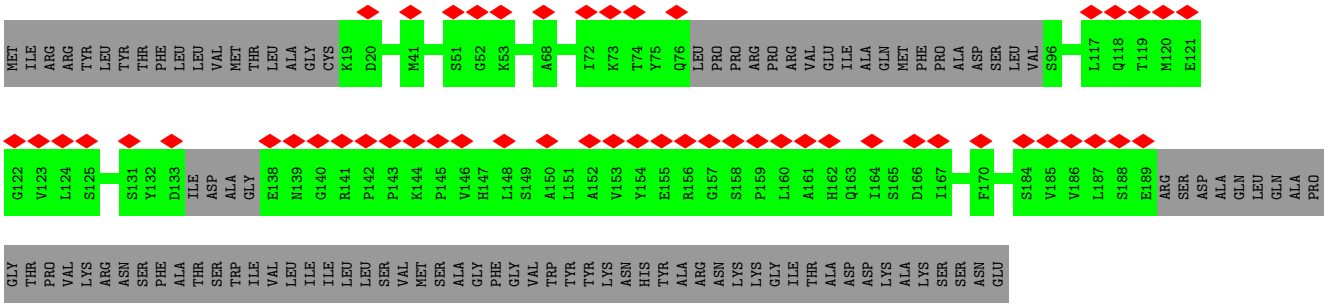
• Molecule 2: Pathogenicity 1 island effector protein

Chain a:



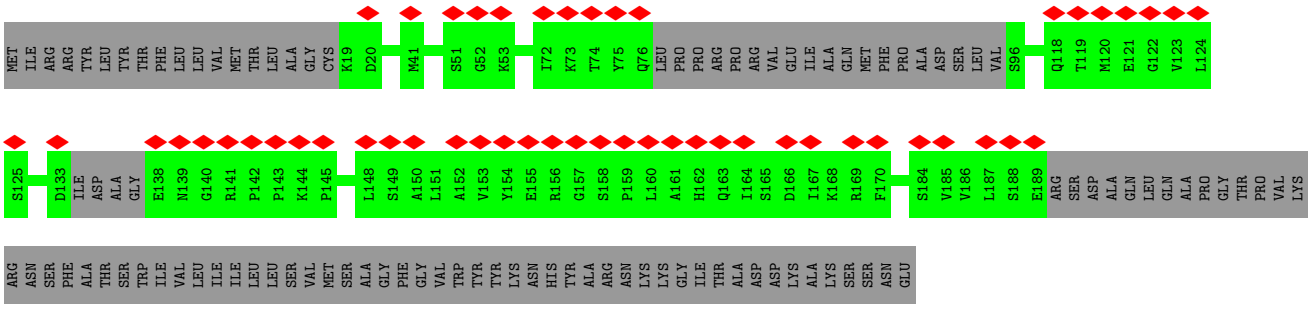
• Molecule 2: Pathogenicity 1 island effector protein

Chain b:



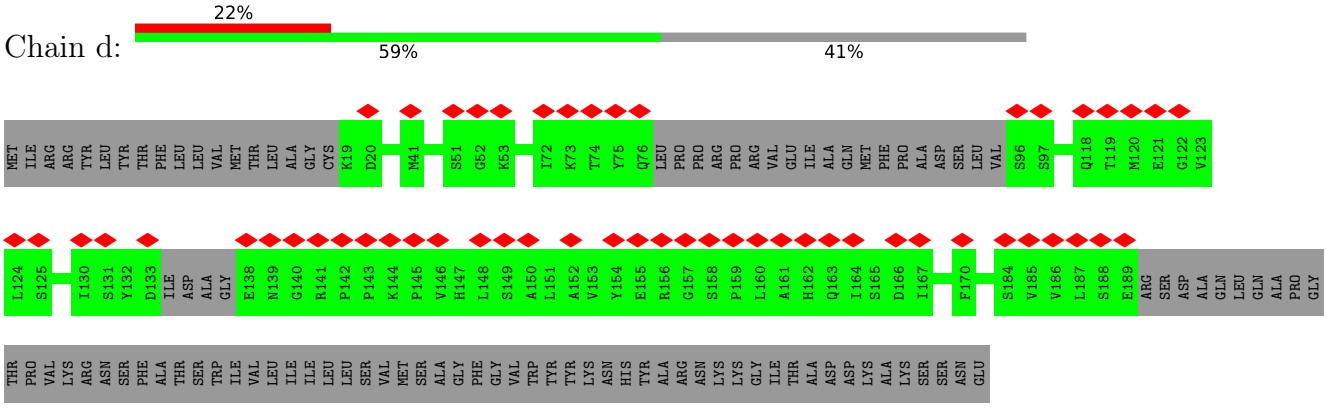
• Molecule 2: Pathogenicity 1 island effector protein

Chain c:



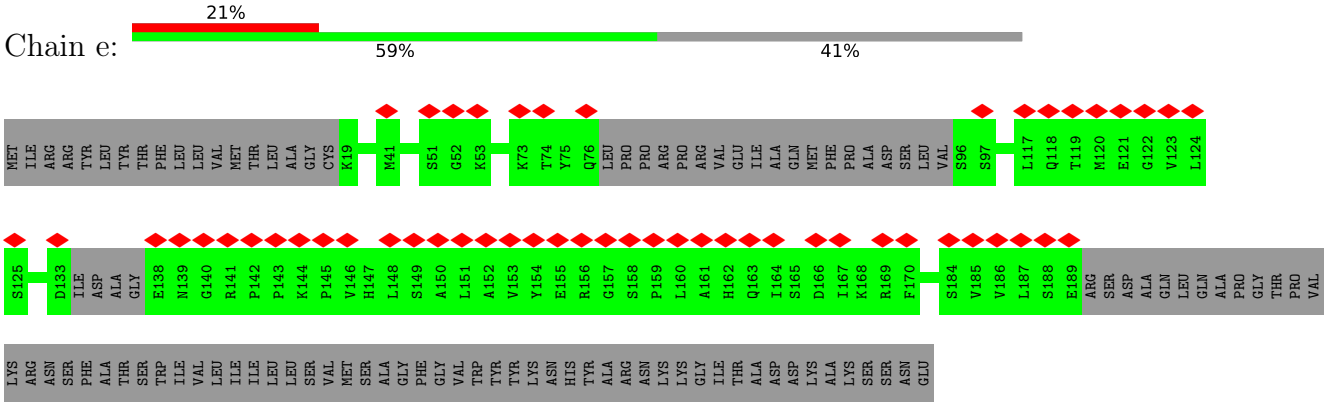
• Molecule 2: Pathogenicity 1 island effector protein

Chain d:



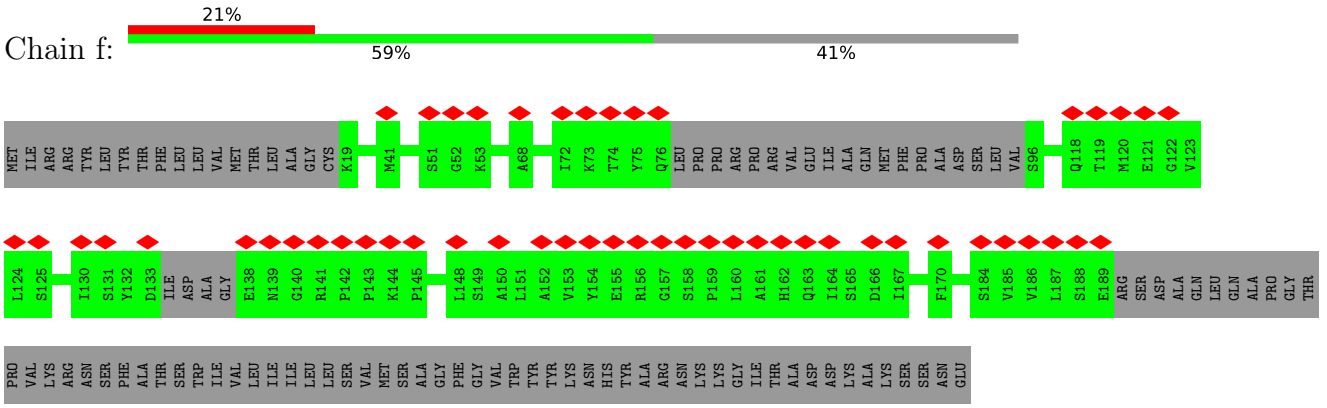
- Molecule 2: Pathogenicity 1 island effector protein

Chain e:



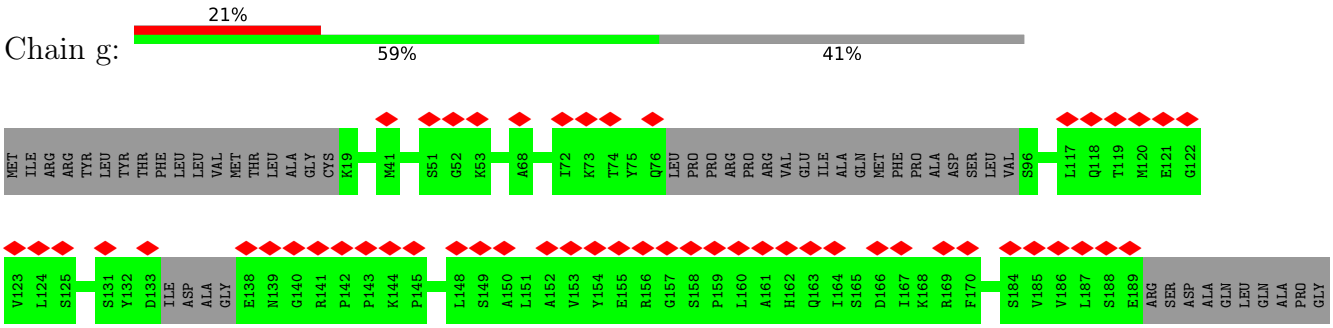
- Molecule 2: Pathogenicity 1 island effector protein

Chain f:



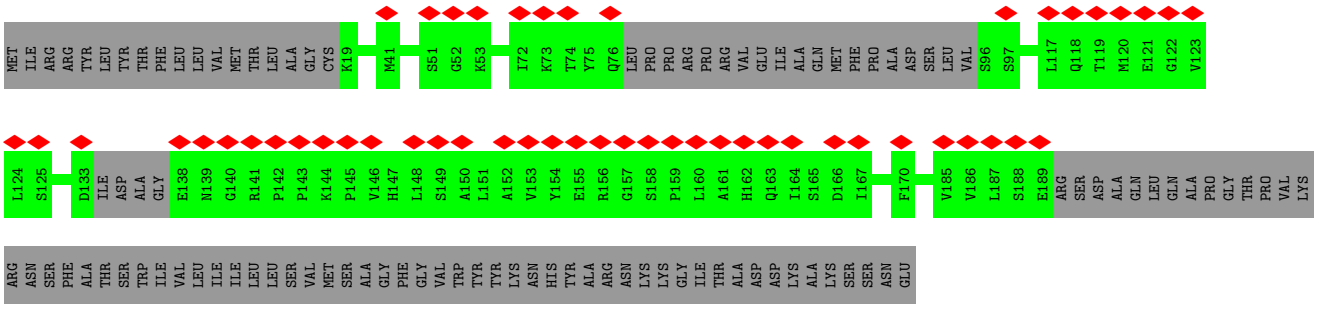
- Molecule 2: Pathogenicity 1 island effector protein

Chain g:



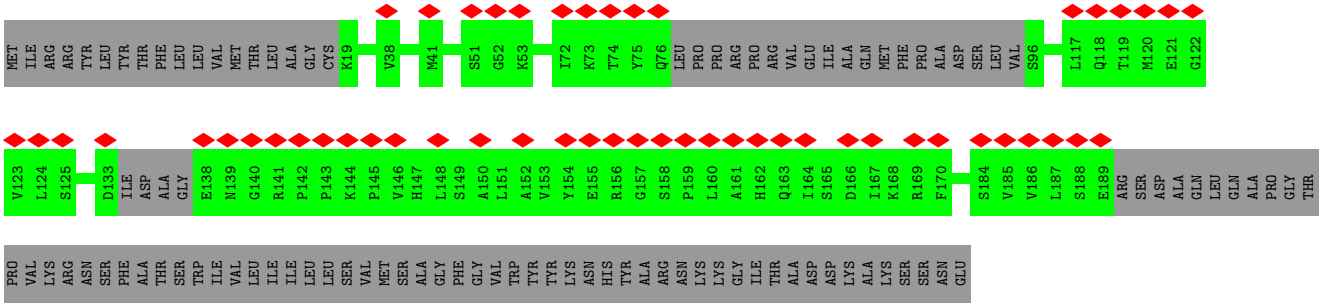
• Molecule 2: Pathogenicity 1 island effector protein

Chain h:



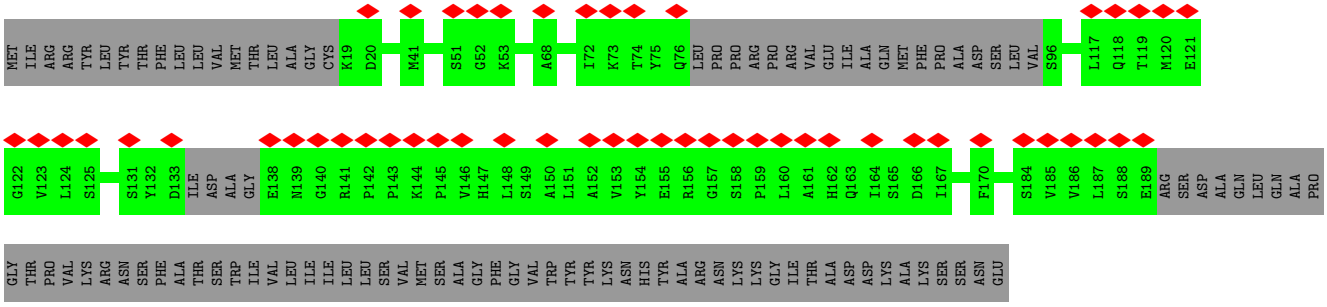
• Molecule 2: Pathogenicity 1 island effector protein

Chain i:



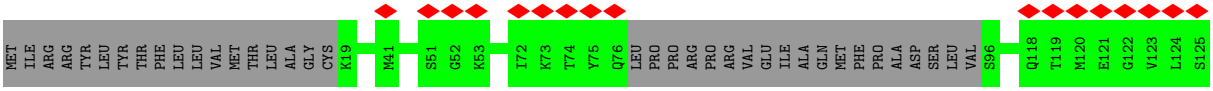
• Molecule 2: Pathogenicity 1 island effector protein

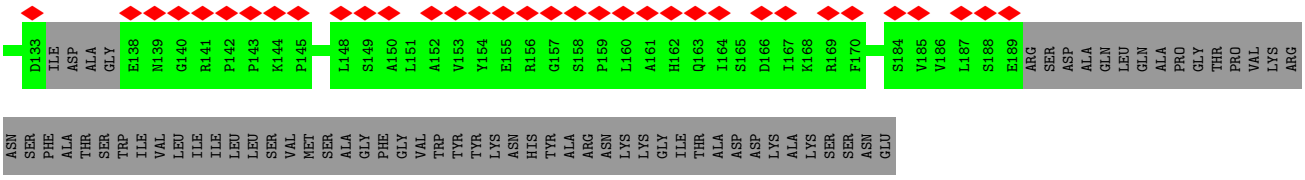
Chain j:



• Molecule 2: Pathogenicity 1 island effector protein

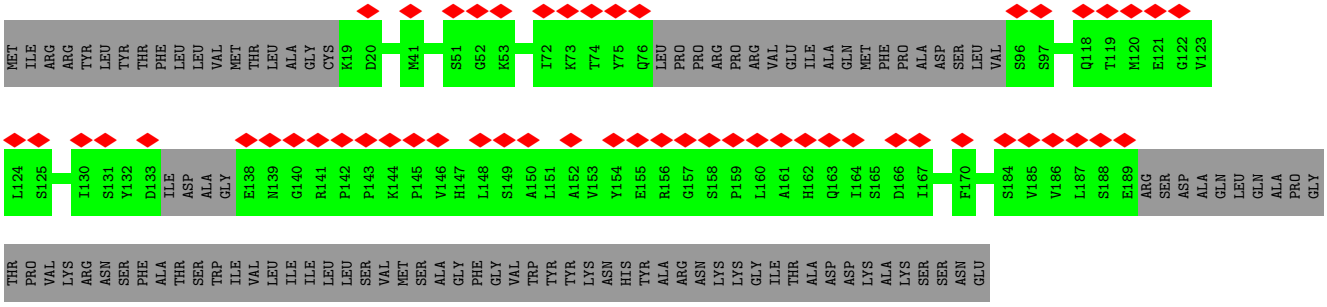
Chain k:





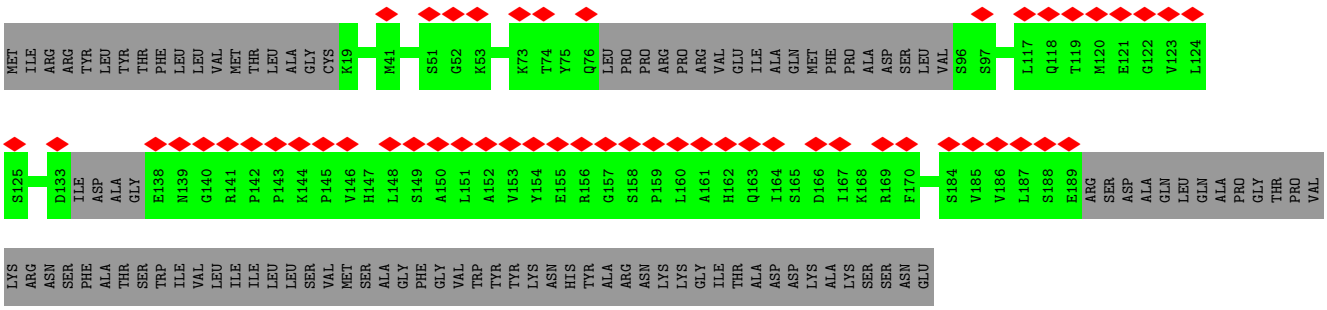
• Molecule 2: Pathogenicity 1 island effector protein

Chain l:



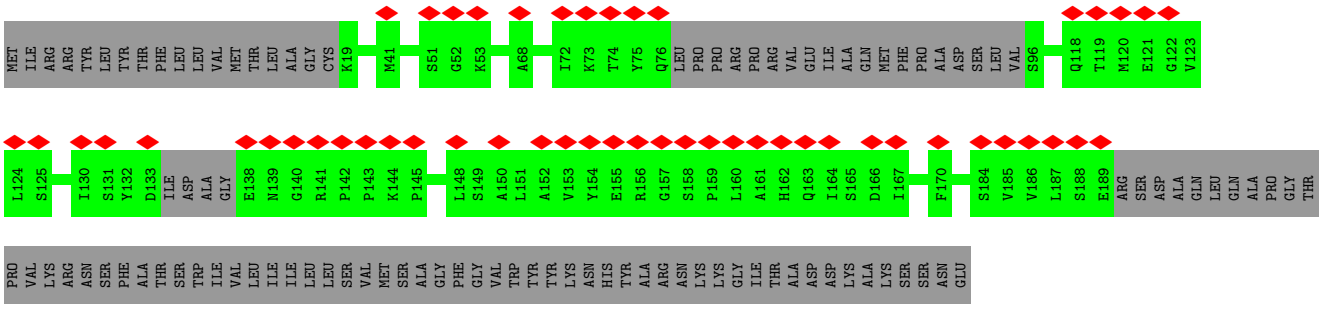
• Molecule 2: Pathogenicity 1 island effector protein

Chain m:



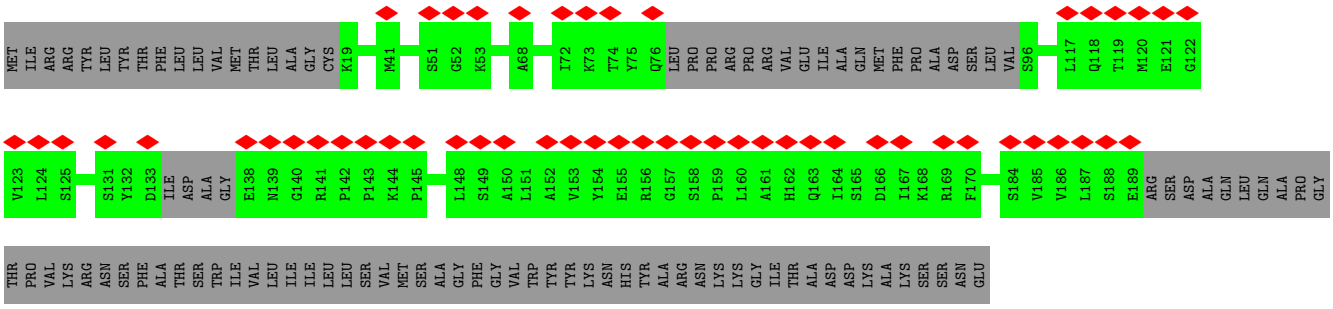
• Molecule 2: Pathogenicity 1 island effector protein

Chain n:



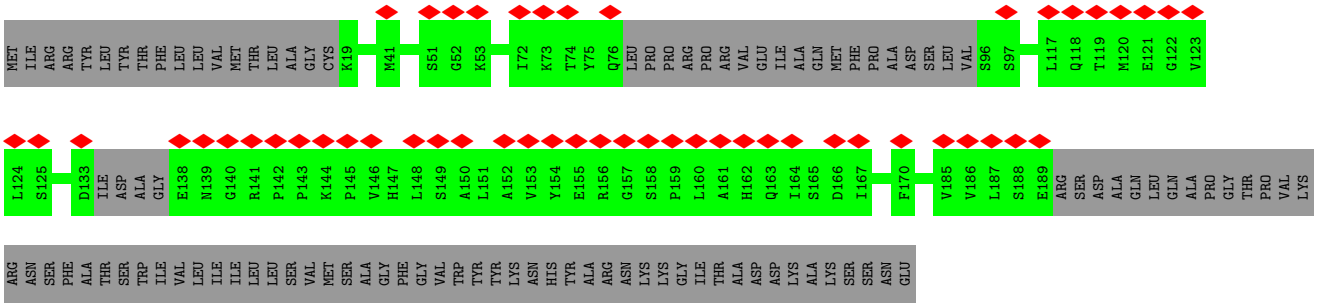
• Molecule 2: Pathogenicity 1 island effector protein

Chain o:



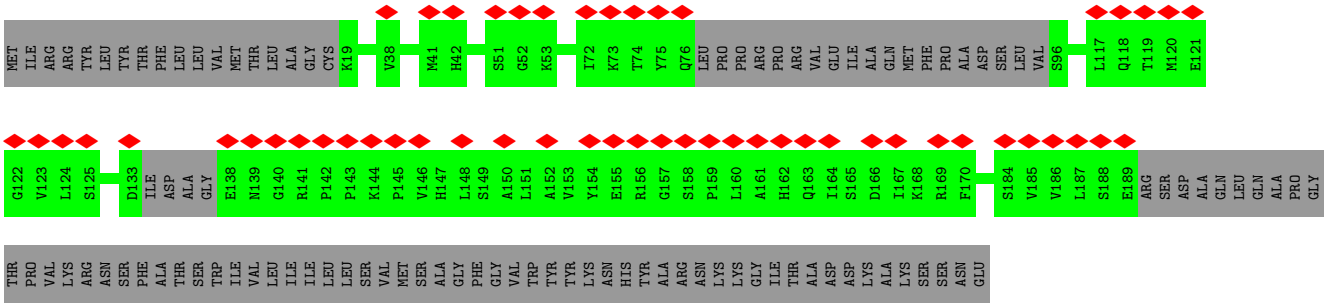
- Molecule 2: Pathogenicity 1 island effector protein

Chain p:



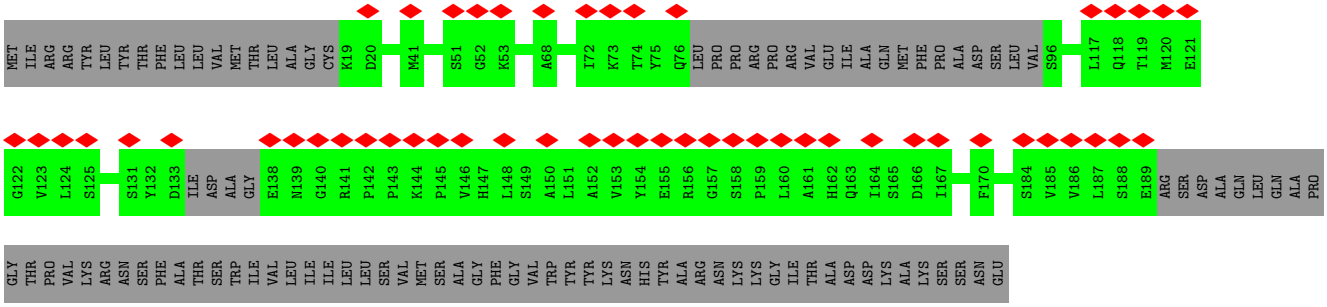
- Molecule 2: Pathogenicity 1 island effector protein

Chain q:



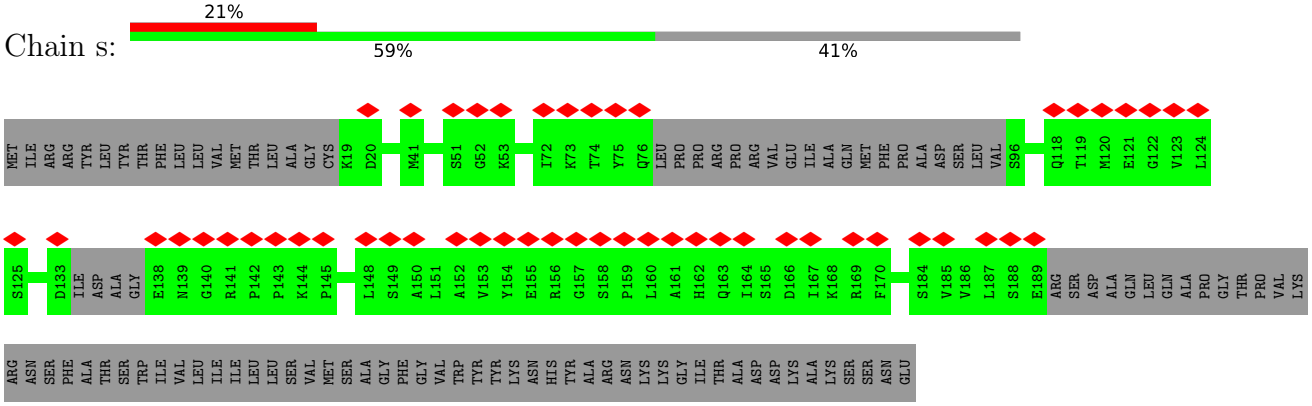
- Molecule 2: Pathogenicity 1 island effector protein

Chain r:



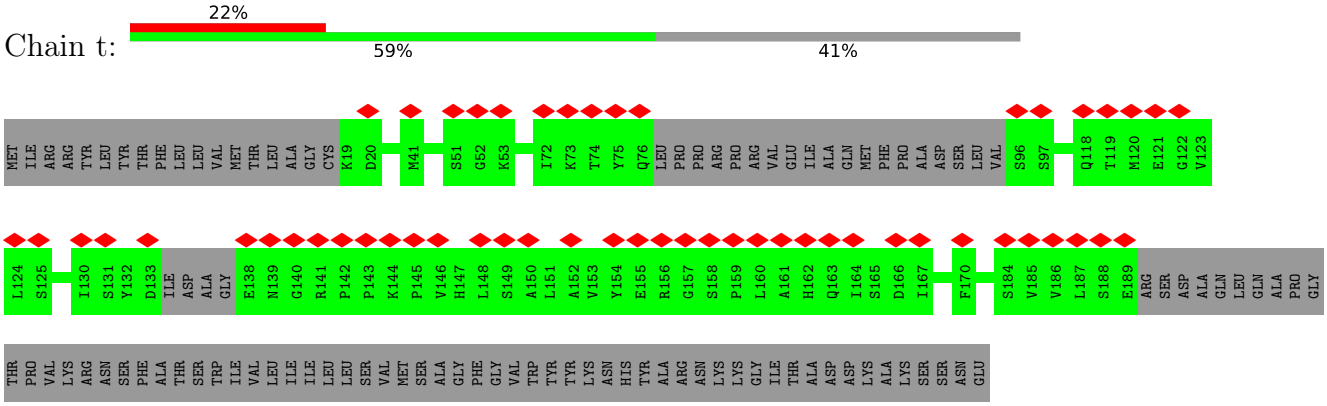
• Molecule 2: Pathogenicity 1 island effector protein

Chain s:



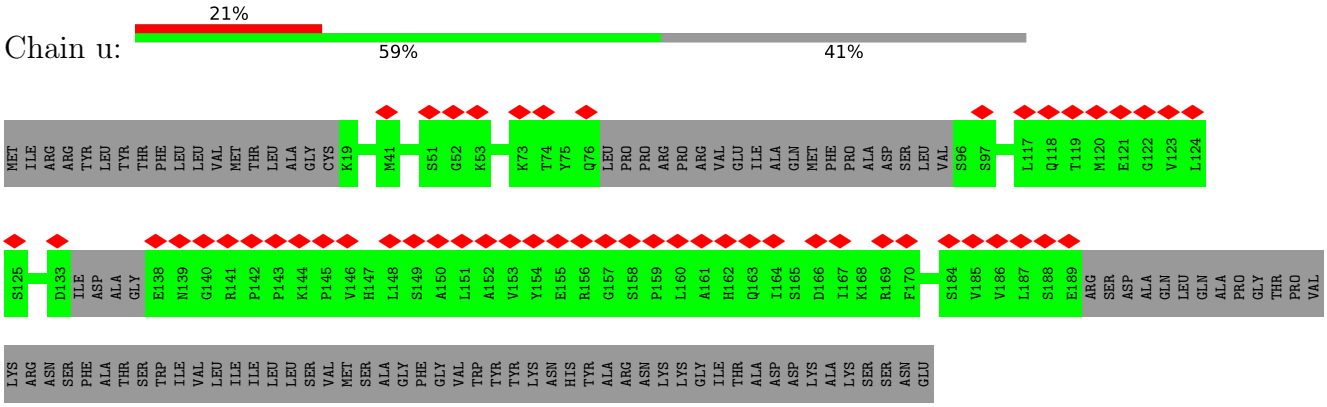
• Molecule 2: Pathogenicity 1 island effector protein

Chain t:



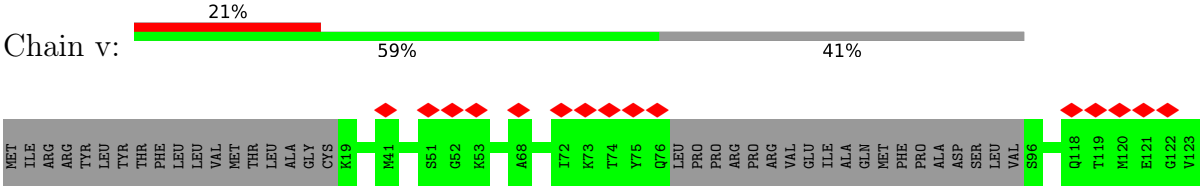
• Molecule 2: Pathogenicity 1 island effector protein

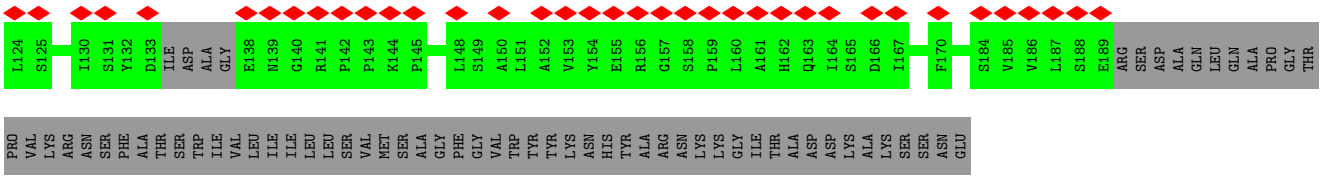
Chain u:



• Molecule 2: Pathogenicity 1 island effector protein

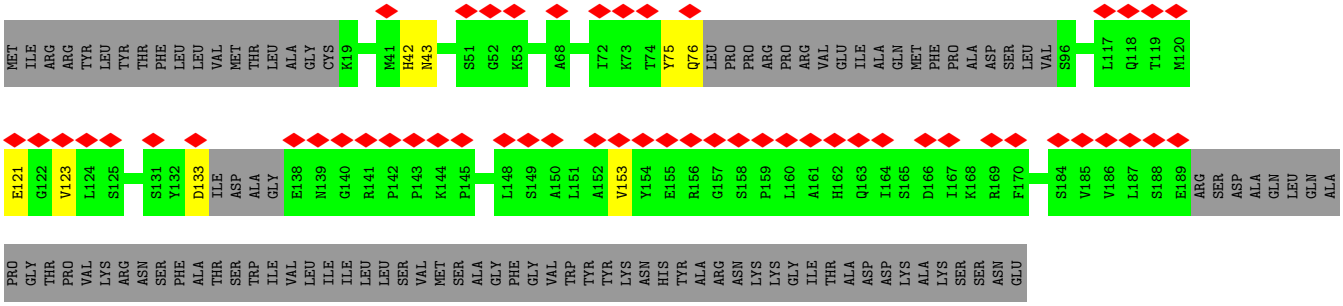
Chain v:





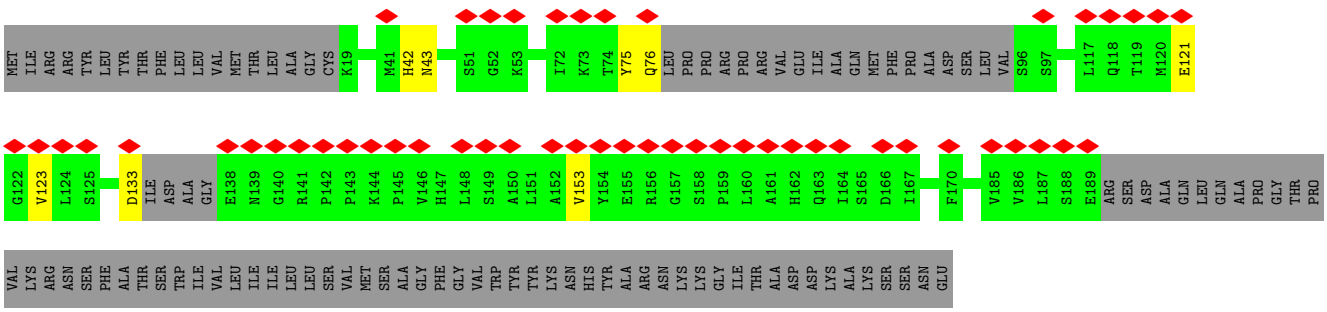
• Molecule 2: Pathogenicity 1 island effector protein

Chain Y:



• Molecule 2: Pathogenicity 1 island effector protein

Chain Z:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C24	Depositor
Number of particles used	37171	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI POLARA 300	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	93000	Depositor
Image detector	GENERIC CCD	Depositor
Maximum map value	0.211	Depositor
Minimum map value	-0.221	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.023	Depositor
Recommended contour level	0.038	Depositor
Map size (Å)	399.0, 399.0, 399.0	wwPDB
Map dimensions	300, 300, 300	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| >5$	RMSZ	$\#\|Z\| >5$
1	A	0.82	0/1610	0.72	0/2174
1	B	0.82	0/1610	0.72	0/2174
1	C	0.81	0/1610	0.72	0/2174
1	D	0.82	0/1610	0.72	0/2174
1	E	0.81	0/1610	0.72	0/2174
1	F	0.82	0/1610	0.72	0/2174
1	G	0.81	0/1610	0.72	0/2174
1	H	0.82	0/1610	0.72	0/2174
1	I	0.82	0/1610	0.72	0/2174
1	J	0.82	0/1610	0.72	0/2174
1	K	0.82	0/1610	0.72	0/2174
1	L	0.82	0/1610	0.72	0/2174
1	M	0.82	0/1610	0.72	0/2174
1	N	0.82	0/1610	0.72	0/2174
1	O	0.81	0/1610	0.72	0/2174
1	P	0.81	0/1610	0.72	0/2174
1	Q	0.82	0/1610	0.72	0/2174
1	R	0.81	0/1610	0.72	0/2174
1	S	0.82	0/1610	0.72	0/2174
1	T	0.81	0/1610	0.72	0/2174
1	U	0.82	0/1610	0.72	0/2174
1	V	0.82	0/1610	0.72	0/2174
1	W	0.82	0/1610	0.72	0/2174
1	X	0.82	0/1610	0.72	0/2174
2	Y	0.71	0/1189	0.56	0/1606
2	Z	0.71	0/1189	0.56	0/1606
2	a	0.71	0/1189	0.56	0/1606
2	b	0.71	0/1189	0.56	0/1606
2	c	0.71	0/1189	0.56	0/1606
2	d	0.71	0/1189	0.56	0/1606
2	e	0.71	0/1189	0.56	0/1606
2	f	0.71	0/1189	0.56	0/1606
2	g	0.71	0/1189	0.56	0/1606
2	h	0.71	0/1189	0.56	0/1606

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
2	i	0.71	0/1189	0.56	0/1606
2	j	0.71	0/1189	0.56	0/1606
2	k	0.71	0/1189	0.56	0/1606
2	l	0.71	0/1189	0.56	0/1606
2	m	0.71	0/1189	0.56	0/1606
2	n	0.71	0/1189	0.56	0/1606
2	o	0.71	0/1189	0.56	0/1606
2	p	0.71	0/1189	0.56	0/1606
2	q	0.71	0/1189	0.56	0/1606
2	r	0.71	0/1189	0.56	0/1606
2	s	0.71	0/1189	0.56	0/1606
2	t	0.71	0/1189	0.56	0/1606
2	u	0.71	0/1189	0.56	0/1606
2	v	0.71	0/1189	0.56	0/1606
All	All	0.77	0/67176	0.66	0/90720

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	1578	0	1565	5	0
1	B	1578	0	1565	7	0
1	C	1578	0	1565	6	0
1	D	1578	0	1565	5	0
1	E	1578	0	1565	5	0
1	F	1578	0	1565	5	0
1	G	1578	0	1565	5	0
1	H	1578	0	1565	5	0
1	I	1578	0	1565	6	0
1	J	1578	0	1565	5	0
1	K	1578	0	1565	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L	1578	0	1565	6	0
1	M	1578	0	1565	6	0
1	N	1578	0	1565	6	0
1	O	1578	0	1565	5	0
1	P	1578	0	1565	5	0
1	Q	1578	0	1565	6	0
1	R	1578	0	1565	6	0
1	S	1578	0	1565	5	0
1	T	1578	0	1565	5	0
1	U	1578	0	1565	6	0
1	V	1578	0	1565	6	0
1	W	1578	0	1565	6	0
1	X	1578	0	1565	5	0
2	Y	1170	0	1161	6	0
2	Z	1170	0	1161	6	0
2	a	1170	0	1161	0	0
2	b	1170	0	1161	0	0
2	c	1170	0	1161	0	0
2	d	1170	0	1161	0	0
2	e	1170	0	1161	0	0
2	f	1170	0	1161	0	0
2	g	1170	0	1161	0	0
2	h	1170	0	1161	0	0
2	i	1170	0	1161	0	0
2	j	1170	0	1161	0	0
2	k	1170	0	1161	0	0
2	l	1170	0	1161	0	0
2	m	1170	0	1161	0	0
2	n	1170	0	1161	0	0
2	o	1170	0	1161	0	0
2	p	1170	0	1161	0	0
2	q	1170	0	1161	0	0
2	r	1170	0	1161	0	0
2	s	1170	0	1161	0	0
2	t	1170	0	1161	0	0
2	u	1170	0	1161	0	0
2	v	1170	0	1161	0	0
All	All	65952	0	65424	144	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 2.

All (144) 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)
2:Y:76:GLN:O	2:Y:76:GLN:HG3	2.10	0.52
2:Z:76:GLN:HG3	2:Z:76:GLN:O	2.10	0.51
2:Y:123:VAL:HG13	2:Y:153:VAL:H	1.76	0.50
2:Z:123:VAL:HG13	2:Z:153:VAL:H	1.76	0.50
1:L:174:ASP:CA	1:L:175:SER:CB	2.93	0.47
1:B:174:ASP:CA	1:B:175:SER:CB	2.93	0.47
1:C:174:ASP:CA	1:C:175:SER:CB	2.93	0.47
1:A:174:ASP:CA	1:A:175:SER:CB	2.93	0.47
1:G:174:ASP:CA	1:G:175:SER:CB	2.93	0.47
1:K:174:ASP:CA	1:K:175:SER:CB	2.93	0.47
1:M:174:ASP:CA	1:M:175:SER:CB	2.93	0.47
2:Z:121:GLU:OE1	2:Z:121:GLU:N	2.44	0.47
1:H:174:ASP:CA	1:H:175:SER:CB	2.93	0.47
1:R:174:ASP:CA	1:R:175:SER:CB	2.93	0.47
1:D:174:ASP:CA	1:D:175:SER:CB	2.93	0.47
1:K:347:TYR:CD1	1:K:347:TYR:C	2.89	0.47
1:Q:174:ASP:CA	1:Q:175:SER:CB	2.93	0.47
1:S:174:ASP:CA	1:S:175:SER:CB	2.93	0.47
1:F:174:ASP:CA	1:F:175:SER:CB	2.93	0.47
1:M:347:TYR:CD1	1:M:347:TYR:C	2.89	0.47
1:R:347:TYR:CD1	1:R:347:TYR:C	2.89	0.47
1:T:174:ASP:CA	1:T:175:SER:CB	2.93	0.47
1:I:347:TYR:CD1	1:I:347:TYR:C	2.89	0.46
1:N:174:ASP:CA	1:N:175:SER:CB	2.93	0.46
1:P:347:TYR:CD1	1:P:347:TYR:C	2.89	0.46
1:T:347:TYR:CD1	1:T:347:TYR:C	2.89	0.46
1:X:174:ASP:CA	1:X:175:SER:CB	2.93	0.46
2:Y:133:ASP:OD1	2:Y:133:ASP:O	2.32	0.46
2:Z:133:ASP:OD1	2:Z:133:ASP:O	2.32	0.46
1:J:174:ASP:CA	1:J:175:SER:CB	2.93	0.46
1:O:347:TYR:CD1	1:O:347:TYR:C	2.89	0.46
1:P:174:ASP:CA	1:P:175:SER:CB	2.93	0.46
1:I:174:ASP:CA	1:I:175:SER:CB	2.93	0.46
1:U:174:ASP:CA	1:U:175:SER:CB	2.93	0.46
1:H:347:TYR:CD1	1:H:347:TYR:C	2.89	0.46
1:V:347:TYR:CD1	1:V:347:TYR:C	2.89	0.46
1:G:347:TYR:CD1	1:G:347:TYR:C	2.89	0.46
1:N:347:TYR:CD1	1:N:347:TYR:C	2.89	0.46
1:O:174:ASP:CA	1:O:175:SER:CB	2.93	0.46
1:D:174:ASP:N	1:D:175:SER:CB	2.79	0.46
1:E:174:ASP:CA	1:E:175:SER:CB	2.93	0.46
1:F:347:TYR:CD1	1:F:347:TYR:C	2.89	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:347:TYR:CD1	1:J:347:TYR:C	2.89	0.46
1:R:174:ASP:N	1:R:175:SER:CB	2.79	0.46
1:V:174:ASP:CA	1:V:175:SER:CB	2.93	0.46
1:A:174:ASP:N	1:A:175:SER:CB	2.79	0.46
1:Q:347:TYR:CD1	1:Q:347:TYR:C	2.89	0.46
1:U:174:ASP:N	1:U:175:SER:CB	2.79	0.46
1:X:347:TYR:CD1	1:X:347:TYR:C	2.89	0.46
1:D:347:TYR:CD1	1:D:347:TYR:C	2.89	0.46
1:E:174:ASP:N	1:E:175:SER:CB	2.79	0.46
1:V:174:ASP:N	1:V:175:SER:CB	2.79	0.46
1:W:174:ASP:CA	1:W:175:SER:CB	2.93	0.46
1:X:174:ASP:N	1:X:175:SER:CB	2.79	0.46
1:B:347:TYR:C	1:B:347:TYR:CD1	2.89	0.46
1:E:347:TYR:CD1	1:E:347:TYR:C	2.89	0.46
1:N:174:ASP:N	1:N:175:SER:CB	2.79	0.46
1:S:174:ASP:N	1:S:175:SER:CB	2.79	0.46
1:U:347:TYR:CD1	1:U:347:TYR:C	2.89	0.46
1:H:174:ASP:N	1:H:175:SER:CB	2.79	0.46
1:L:347:TYR:CD1	1:L:347:TYR:C	2.89	0.46
1:O:174:ASP:N	1:O:175:SER:CB	2.79	0.46
1:I:174:ASP:N	1:I:175:SER:CB	2.79	0.45
1:Q:174:ASP:N	1:Q:175:SER:CB	2.79	0.45
1:S:347:TYR:C	1:S:347:TYR:CD1	2.89	0.45
1:W:347:TYR:CD1	1:W:347:TYR:C	2.89	0.45
1:C:174:ASP:N	1:C:175:SER:CB	2.79	0.45
1:G:174:ASP:N	1:G:175:SER:CB	2.79	0.45
1:A:347:TYR:CD1	1:A:347:TYR:C	2.89	0.45
1:C:347:TYR:CD1	1:C:347:TYR:C	2.89	0.45
1:M:174:ASP:N	1:M:175:SER:CB	2.79	0.45
1:B:174:ASP:N	1:B:175:SER:CB	2.79	0.45
1:J:174:ASP:N	1:J:175:SER:CB	2.79	0.45
1:K:174:ASP:N	1:K:175:SER:CB	2.79	0.45
1:P:174:ASP:N	1:P:175:SER:CB	2.79	0.45
1:T:174:ASP:N	1:T:175:SER:CB	2.79	0.45
1:F:174:ASP:N	1:F:175:SER:CB	2.79	0.45
1:W:174:ASP:N	1:W:175:SER:CB	2.79	0.45
1:L:174:ASP:N	1:L:175:SER:CB	2.79	0.45
1:E:174:ASP:HA	1:E:175:SER:HB3	2.00	0.44
1:G:174:ASP:HA	1:G:175:SER:HB3	2.00	0.44
1:J:174:ASP:HA	1:J:175:SER:HB3	2.00	0.44
1:L:174:ASP:HA	1:L:175:SER:HB3	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:174:ASP:HA	1:F:175:SER:HB3	2.00	0.44
1:K:174:ASP:HA	1:K:175:SER:HB3	2.00	0.44
1:M:174:ASP:HA	1:M:175:SER:HB3	2.00	0.44
1:O:174:ASP:HA	1:O:175:SER:HB3	2.00	0.44
1:C:174:ASP:HA	1:C:175:SER:HB3	2.00	0.44
1:D:174:ASP:HA	1:D:175:SER:HB3	2.00	0.44
1:H:174:ASP:HA	1:H:175:SER:HB3	2.00	0.44
1:N:174:ASP:HA	1:N:175:SER:HB3	2.00	0.44
1:B:174:ASP:HA	1:B:175:SER:HB3	2.00	0.44
1:I:174:ASP:HA	1:I:175:SER:HB3	2.00	0.44
1:P:174:ASP:HA	1:P:175:SER:HB3	2.00	0.44
1:Q:174:ASP:HA	1:Q:175:SER:HB3	2.00	0.44
1:R:174:ASP:HA	1:R:175:SER:HB3	2.00	0.44
1:X:174:ASP:HA	1:X:175:SER:HB3	2.00	0.44
1:A:174:ASP:HA	1:A:175:SER:HB3	2.00	0.44
1:V:174:ASP:HA	1:V:175:SER:HB3	2.00	0.44
1:W:174:ASP:HA	1:W:175:SER:HB3	2.00	0.44
1:T:174:ASP:HA	1:T:175:SER:HB3	2.00	0.43
1:S:174:ASP:HA	1:S:175:SER:HB3	2.00	0.43
1:U:174:ASP:HA	1:U:175:SER:HB3	2.00	0.43
2:Y:75:TYR:O	2:Y:76:GLN:C	2.58	0.42
1:B:174:ASP:N	1:B:175:SER:HB3	2.35	0.42
1:X:174:ASP:N	1:X:175:SER:HB3	2.35	0.42
1:A:174:ASP:N	1:A:175:SER:HB3	2.35	0.41
1:C:174:ASP:N	1:C:175:SER:HB3	2.35	0.41
1:W:174:ASP:N	1:W:175:SER:HB3	2.35	0.41
1:V:174:ASP:N	1:V:175:SER:HB3	2.35	0.41
1:D:174:ASP:N	1:D:175:SER:HB3	2.35	0.41
2:Y:42:HIS:O	2:Y:43:ASN:HB2	2.20	0.41
1:U:174:ASP:N	1:U:175:SER:HB3	2.35	0.41
1:Q:174:ASP:N	1:Q:175:SER:HB3	2.35	0.41
2:Y:121:GLU:OE1	2:Y:121:GLU:N	2.44	0.41
1:E:174:ASP:N	1:E:175:SER:HB3	2.35	0.41
1:F:174:ASP:N	1:F:175:SER:HB3	2.35	0.41
1:G:174:ASP:N	1:G:175:SER:HB3	2.35	0.41
1:P:174:ASP:N	1:P:175:SER:HB3	2.35	0.41
1:R:174:ASP:N	1:R:175:SER:HB3	2.35	0.41
2:Z:42:HIS:O	2:Z:43:ASN:HB2	2.20	0.41
1:O:174:ASP:N	1:O:175:SER:HB3	2.35	0.41
1:S:174:ASP:N	1:S:175:SER:HB3	2.35	0.41
1:T:174:ASP:N	1:T:175:SER:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:174:ASP:N	1:H:175:SER:HB3	2.35	0.40
1:M:174:ASP:HA	1:M:175:SER:C	2.42	0.40
1:N:174:ASP:N	1:N:175:SER:HB3	2.35	0.40
1:B:317:ARG:O	1:B:324:THR:N	2.55	0.40
1:N:174:ASP:HA	1:N:175:SER:C	2.42	0.40
1:U:317:ARG:O	1:U:324:THR:N	2.55	0.40
1:B:174:ASP:HA	1:B:175:SER:C	2.42	0.40
1:L:174:ASP:N	1:L:175:SER:HB3	2.35	0.40
1:L:174:ASP:HA	1:L:175:SER:C	2.42	0.40
1:R:174:ASP:HA	1:R:175:SER:C	2.42	0.40
1:I:174:ASP:N	1:I:175:SER:HB3	2.35	0.40
1:M:174:ASP:N	1:M:175:SER:HB3	2.35	0.40
1:V:317:ARG:O	1:V:324:THR:N	2.55	0.40
2:Z:75:TYR:O	2:Z:76:GLN:C	2.58	0.40
1:C:317:ARG:O	1:C:324:THR:N	2.55	0.40
1:I:174:ASP:HA	1:I:175:SER:C	2.42	0.40
1:J:174:ASP:N	1:J:175:SER:HB3	2.35	0.40
1:K:174:ASP:N	1:K:175:SER:HB3	2.35	0.40
1:Q:174:ASP:HA	1:Q:175:SER:C	2.42	0.40
1:W:174:ASP:HA	1:W:175:SER:C	2.42	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	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	B	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	C	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	D	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	E	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	F	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	G	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	H	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	I	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	J	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	K	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	L	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	M	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	N	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	O	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	P	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	Q	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	R	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	S	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	T	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	U	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	V	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	W	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
1	X	189/392 (48%)	174 (92%)	14 (7%)	1 (0%)	29	69
2	Y	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	Z	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	a	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	b	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	c	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	d	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	e	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	f	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	g	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	h	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	i	142/252 (56%)	129 (91%)	13 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	j	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	k	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	l	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	m	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	n	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	o	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	p	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	q	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	r	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	s	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	t	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	u	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
2	v	142/252 (56%)	129 (91%)	13 (9%)	0	100	100
All	All	7944/15456 (51%)	7272 (92%)	648 (8%)	24 (0%)	44	77

All (24) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	218	LYS
1	B	218	LYS
1	C	218	LYS
1	D	218	LYS
1	E	218	LYS
1	F	218	LYS
1	G	218	LYS
1	H	218	LYS
1	I	218	LYS
1	J	218	LYS
1	K	218	LYS
1	L	218	LYS
1	M	218	LYS
1	N	218	LYS
1	O	218	LYS
1	P	218	LYS
1	Q	218	LYS
1	R	218	LYS
1	S	218	LYS

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Mol	Chain	Res	Type
1	T	218	LYS
1	U	218	LYS
1	V	218	LYS
1	W	218	LYS
1	X	218	LYS

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	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	B	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	C	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	D	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	E	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	F	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	G	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	H	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	I	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	J	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	K	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	L	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	M	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	N	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	O	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	P	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	Q	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	R	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	S	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	T	165/337 (49%)	164 (99%)	1 (1%)	86	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	U	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	V	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	W	165/337 (49%)	164 (99%)	1 (1%)	86	92
1	X	165/337 (49%)	164 (99%)	1 (1%)	86	92
2	Y	128/215 (60%)	128 (100%)	0	100	100
2	Z	128/215 (60%)	128 (100%)	0	100	100
2	a	128/215 (60%)	128 (100%)	0	100	100
2	b	128/215 (60%)	128 (100%)	0	100	100
2	c	128/215 (60%)	128 (100%)	0	100	100
2	d	128/215 (60%)	128 (100%)	0	100	100
2	e	128/215 (60%)	128 (100%)	0	100	100
2	f	128/215 (60%)	128 (100%)	0	100	100
2	g	128/215 (60%)	128 (100%)	0	100	100
2	h	128/215 (60%)	128 (100%)	0	100	100
2	i	128/215 (60%)	128 (100%)	0	100	100
2	j	128/215 (60%)	128 (100%)	0	100	100
2	k	128/215 (60%)	128 (100%)	0	100	100
2	l	128/215 (60%)	128 (100%)	0	100	100
2	m	128/215 (60%)	128 (100%)	0	100	100
2	n	128/215 (60%)	128 (100%)	0	100	100
2	o	128/215 (60%)	128 (100%)	0	100	100
2	p	128/215 (60%)	128 (100%)	0	100	100
2	q	128/215 (60%)	128 (100%)	0	100	100
2	r	128/215 (60%)	128 (100%)	0	100	100
2	s	128/215 (60%)	128 (100%)	0	100	100
2	t	128/215 (60%)	128 (100%)	0	100	100
2	u	128/215 (60%)	128 (100%)	0	100	100
2	v	128/215 (60%)	128 (100%)	0	100	100
All	All	7032/13248 (53%)	7008 (100%)	24 (0%)	92	95

All (24) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	175	SER
1	B	175	SER
1	C	175	SER
1	D	175	SER
1	E	175	SER
1	F	175	SER
1	G	175	SER
1	H	175	SER
1	I	175	SER
1	J	175	SER
1	K	175	SER
1	L	175	SER
1	M	175	SER
1	N	175	SER
1	O	175	SER
1	P	175	SER
1	Q	175	SER
1	R	175	SER
1	S	175	SER
1	T	175	SER
1	U	175	SER
1	V	175	SER
1	W	175	SER
1	X	175	SER

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. There are no such sidechains identified.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

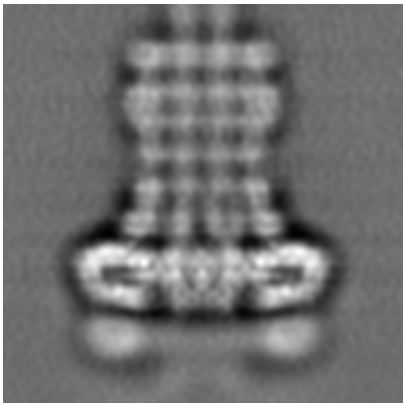
6 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-1875. These allow visual inspection of the internal detail of the map and identification of artifacts.

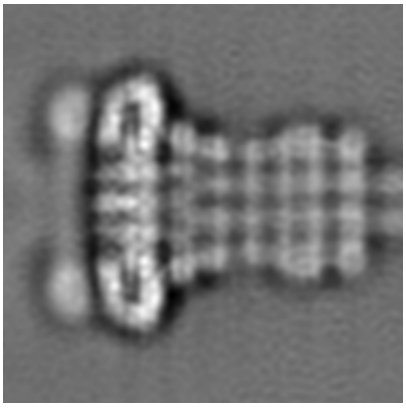
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections (i)

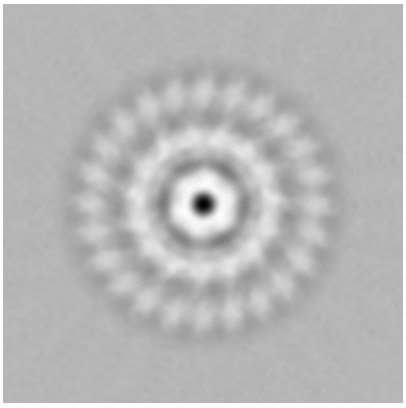
6.1.1 Primary map



X



Y



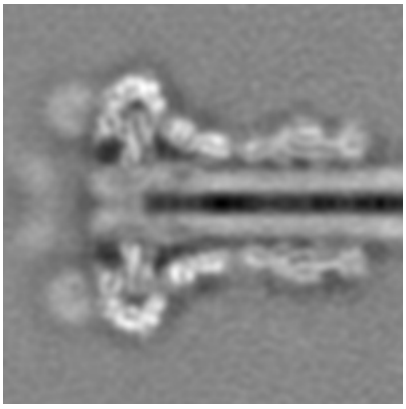
Z

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

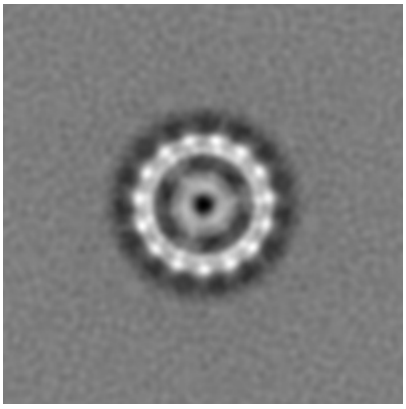
6.2 Central slices (i)

6.2.1 Primary map

X Index: 150



Y Index: 150



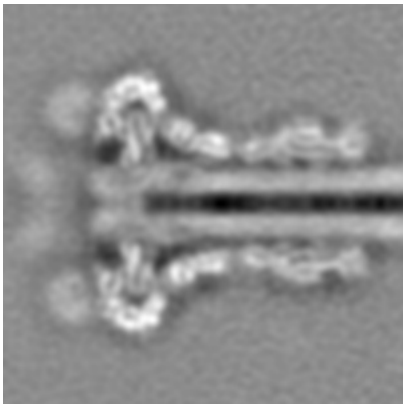
Z Index: 150

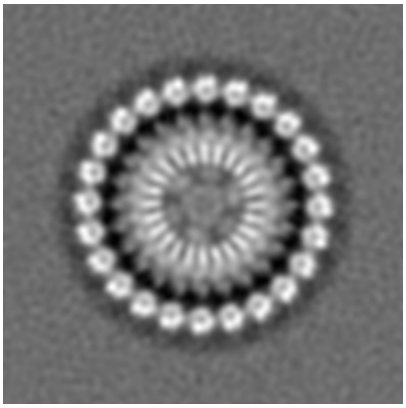
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 150

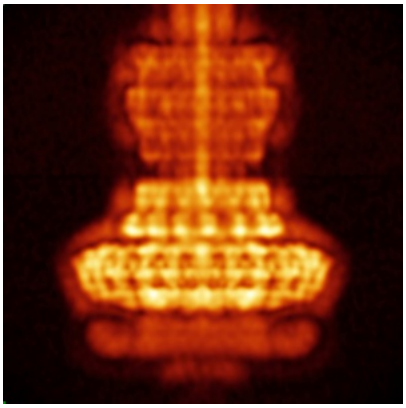

Y Index: 149

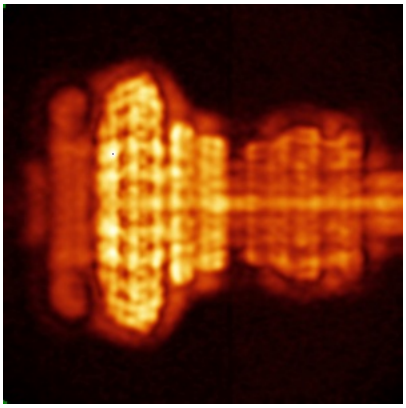

Z Index: 98

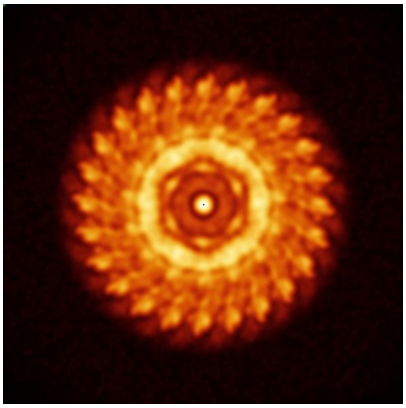
The images above show the largest variance slices of the map in three orthogonal directions.

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

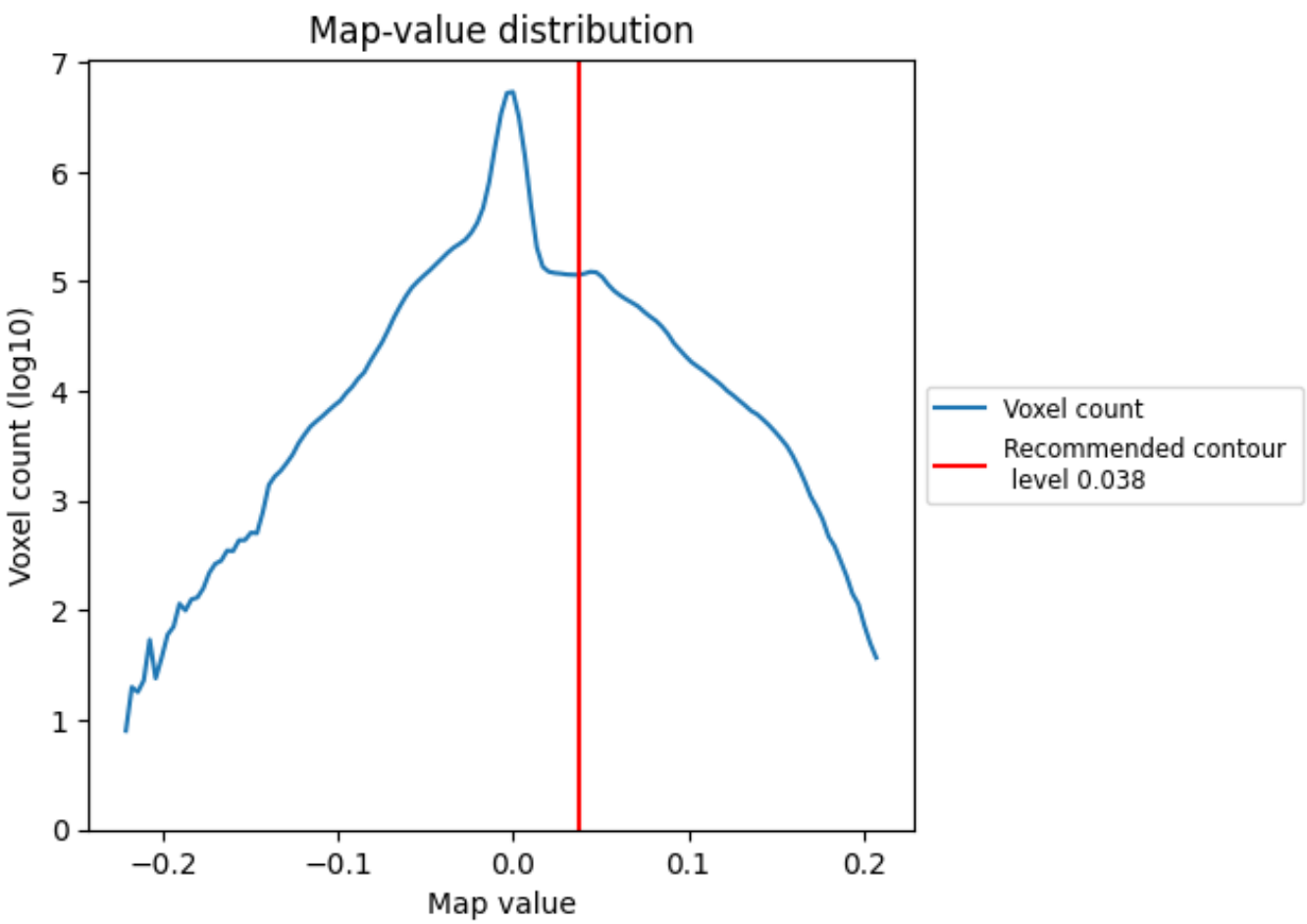
6.6 Mask visualisation (i)

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

7 Map analysis (i)

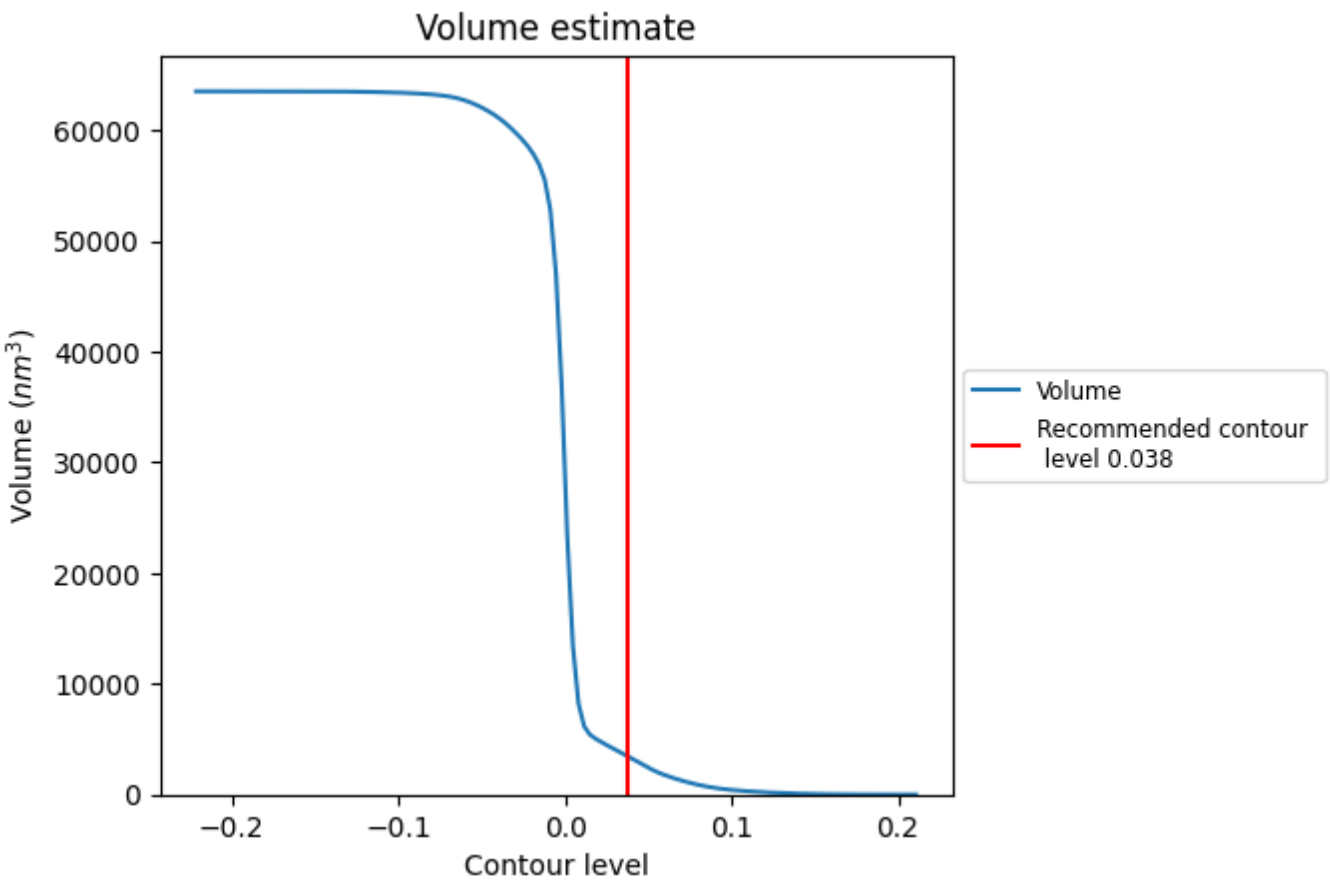
This section contains the results of statistical analysis of the map.

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.

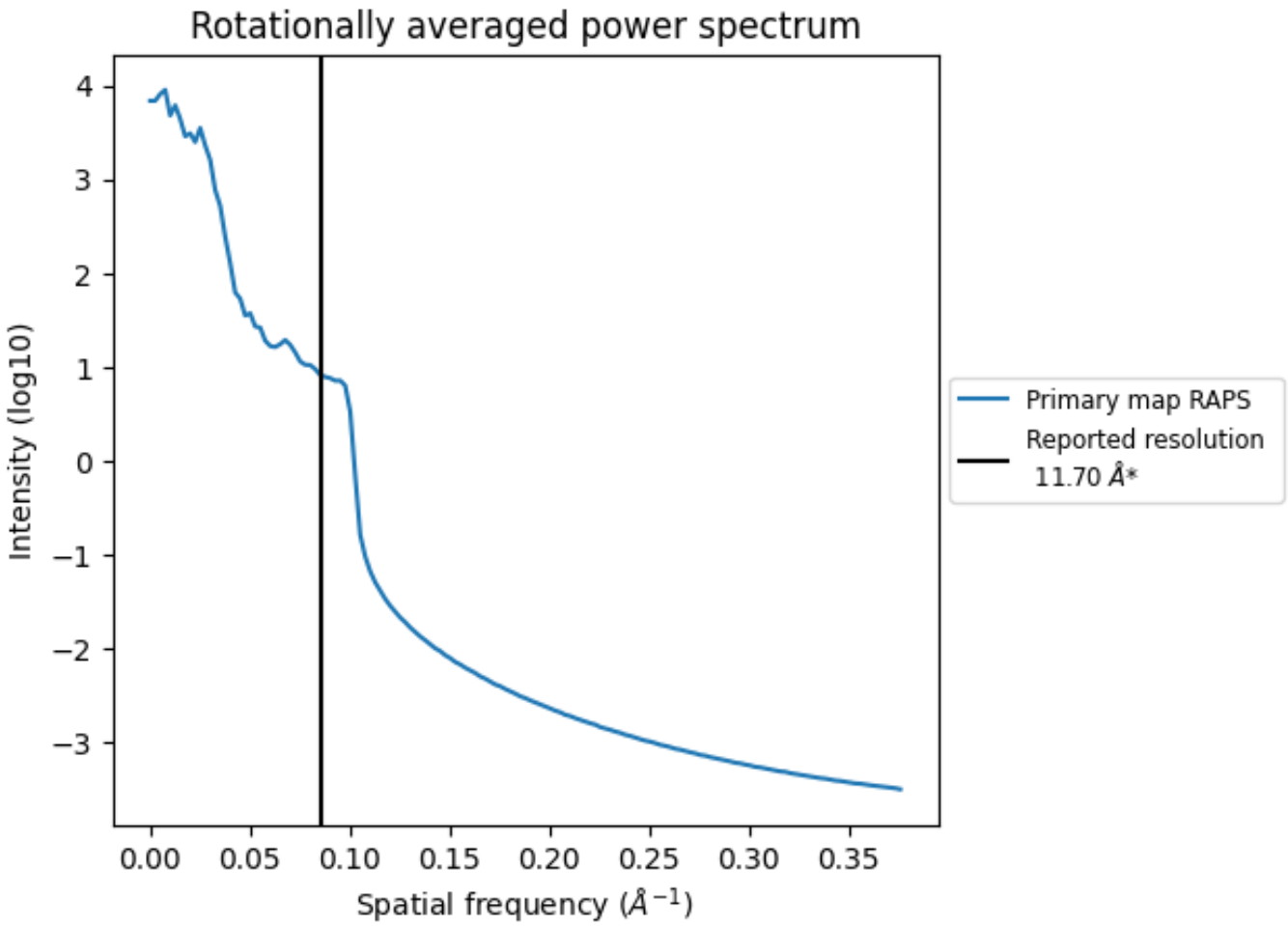
7.2 Volume estimate (i)



The volume at the recommended contour level is 3430 nm^3; this corresponds to an approximate mass of 3099 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 0.085 Å^{-1}

8 Fourier-Shell correlation (i)

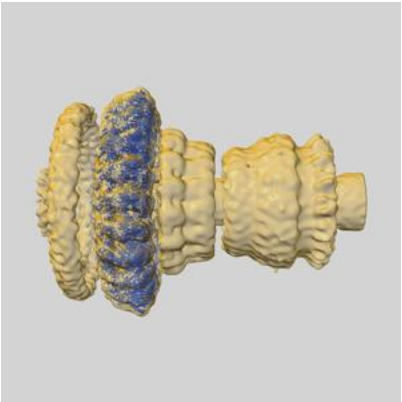
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit (i)

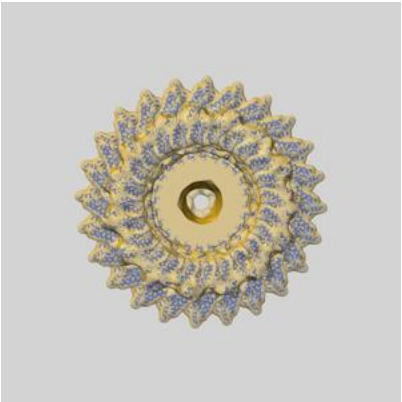
This section contains information regarding the fit between EMDB map EMD-1875 and PDB model 3J6D. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlay (i)

X



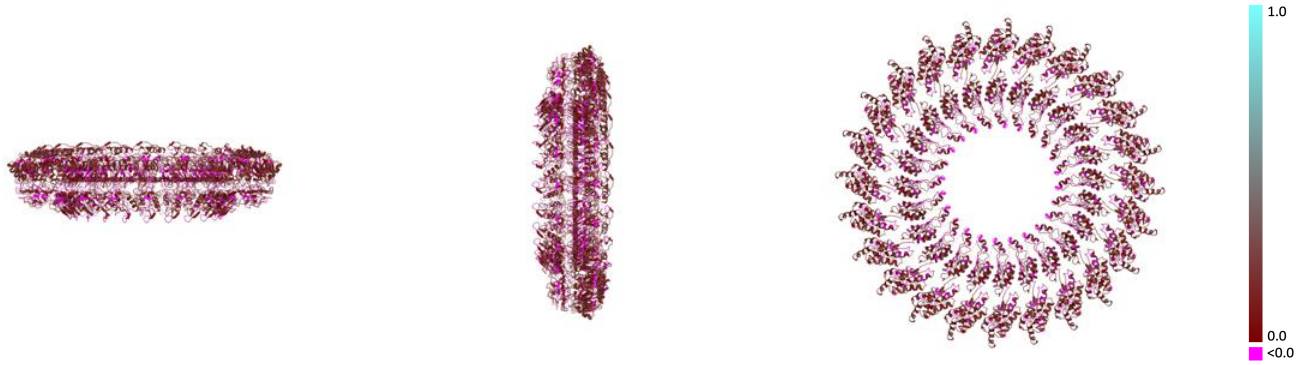
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.038 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.

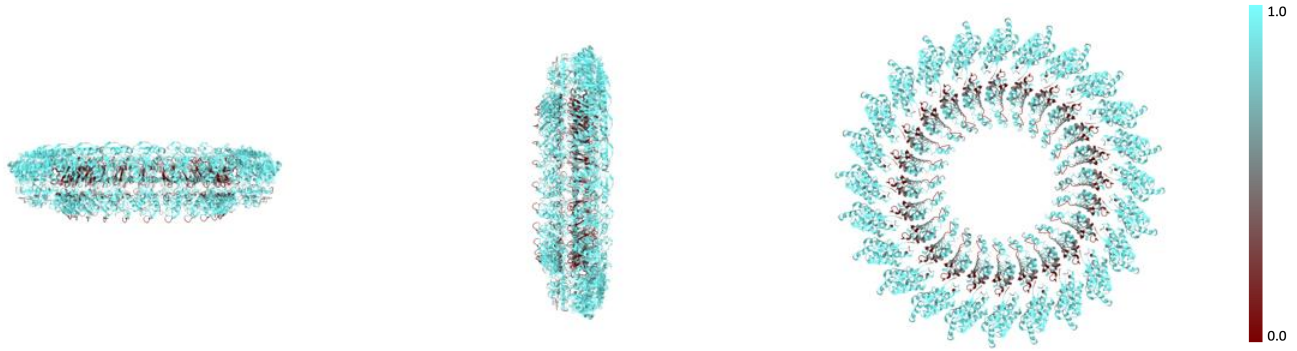
9.2 Q-score mapped to coordinate model (i)



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.

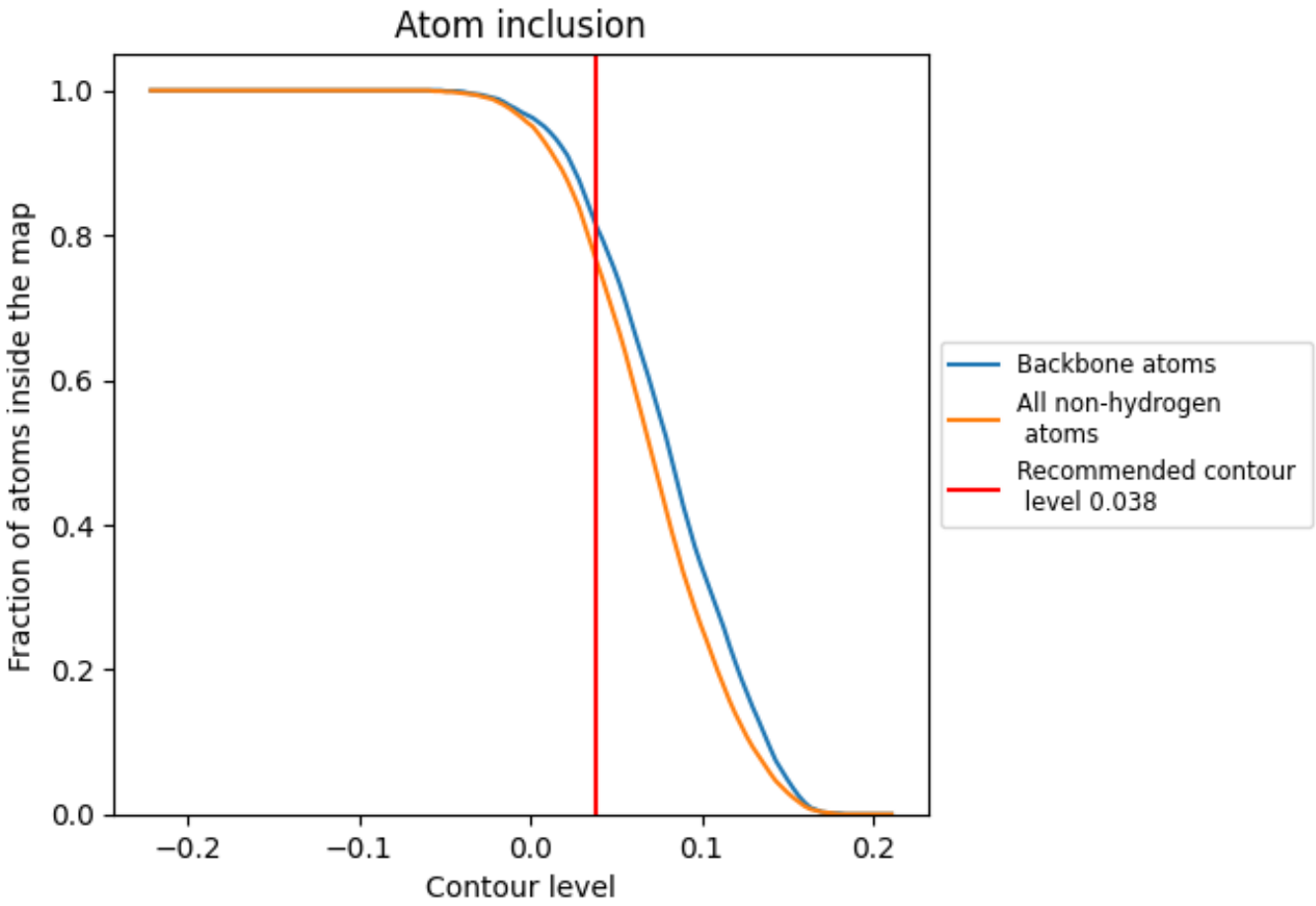
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.038).

9.4 Atom inclusion (i)



At the recommended contour level, 82% of all backbone atoms, 77% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary (i)

The table lists the average atom inclusion at the recommended contour level (0.038) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7680	0.1080
A	0.8810	0.1180
B	0.8870	0.1150
C	0.8860	0.1180
D	0.8900	0.1200
E	0.8890	0.1210
F	0.8960	0.1200
G	0.8880	0.1170
H	0.8890	0.1180
I	0.8820	0.1170
J	0.8870	0.1160
K	0.8860	0.1170
L	0.8890	0.1200
M	0.8890	0.1190
N	0.8960	0.1190
O	0.8870	0.1170
P	0.8870	0.1170
Q	0.8810	0.1140
R	0.8870	0.1150
S	0.8860	0.1170
T	0.8890	0.1180
U	0.8890	0.1180
V	0.8960	0.1180
W	0.8880	0.1160
X	0.8890	0.1180
Y	0.6080	0.0950
Z	0.6050	0.0940
a	0.6120	0.1000
b	0.6190	0.0920
c	0.6190	0.0980
d	0.5970	0.0980
e	0.5980	0.0940
f	0.6090	0.0950
g	0.6090	0.0960
h	0.6030	0.0930

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Chain	Atom inclusion	Q-score
i	0.6140	0.0990
j	0.6200	0.0910
k	0.6190	0.0960
l	0.5980	0.0970
m	0.5980	0.0950
n	0.6090	0.0930
o	0.6100	0.0930
p	0.6050	0.0900
q	0.6120	0.0960
r	0.6190	0.0880
s	0.6190	0.0950
t	0.5980	0.0940
u	0.5980	0.0920
v	0.6080	0.0930