



wwPDB X-ray Structure Validation Summary Report ⓘ

Apr 29, 2024 – 12:26 am BST

PDB ID : 2W0C
Title : X-ray structure of the entire lipid-containing bacteriophage PM2
Authors : Abrescia, N.G.A.; Grimes, J.M.; Kivela, H.M.; Assenberg, R.; Sutton, G.C.;
Butcher, S.J.; Bamford, J.K.H.; Bamford, D.H.; Stuart, D.I.
Deposited on : 2008-08-13
Resolution : 7.00 Å(reported)

This is a wwPDB X-ray Structure Validation Summary 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/XrayValidationReportHelp>

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:

MolProbity : 4.02b-467
Xtriage (Phenix) : 1.13
EDS : 2.36.2
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.36.2

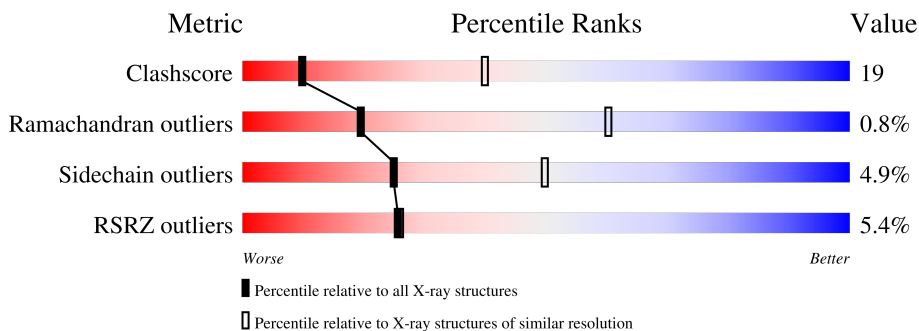
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 7.00 Å.

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








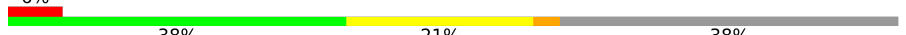
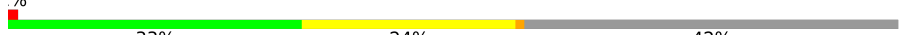
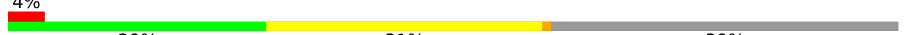


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1069 (10.00-3.90)
Ramachandran outliers	138981	1002 (10.00-3.90)
Sidechain outliers	138945	1002 (10.00-3.86)
RSRZ outliers	127900	1004 (9.50-3.80)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower 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 electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	269	 4% 69% 28% .
1	B	269	 3% 67% 30% .
1	C	269	 7% 71% 28% .
1	D	269	 % 72% 27% .
1	E	269	 % 66% 30% .
1	F	269	 7% 69% 29% .

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Mol	Chain	Length	Quality of chain
1	G	269	 70% 28% .
1	H	269	 68% 30% .
1	I	269	 71% 27% .
1	J	269	 69% 28% .
2	L	335	 78% 19% .
3	P	104	 38% 21% . 38%
3	Q	104	 33% 24% . 42%
3	R	104	 29% 31% . 39%
3	S	104	 42% 37% . 19%
4	T	127	 91% 6% .

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 26447 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, 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 MAJOR CAPSID PROTEIN P2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	269	2123	1347	366	400	10	0	0	0
1	B	269	2123	1347	366	400	10	0	0	0
1	C	269	2123	1347	366	400	10	0	0	0
1	D	269	2123	1347	366	400	10	0	0	0
1	E	269	2123	1347	366	400	10	0	0	0
1	F	269	2123	1347	366	400	10	0	0	0
1	G	269	2123	1347	366	400	10	0	0	0
1	H	269	2123	1347	366	400	10	0	0	0
1	I	269	2123	1347	366	400	10	0	0	0
1	J	269	2123	1347	366	400	10	0	0	0

- Molecule 2 is a protein called PROTEIN 2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	L	335	2634	1660	439	529	6	0	0	0

- Molecule 3 is a protein called PROTEIN P3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	P	65	451	275	82	92	2	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	Q	60	Total	C	N	O	S	0	0	0
			432	265	77	89	1			
3	R	63	Total	C	N	O	S	0	0	0
			453	280	80	92	1			
3	S	84	Total	C	N	O	S	0	0	0
			608	386	107	113	2			

- Molecule 4 is a protein called PROTEIN P6.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
4	T	127	Total	C	N	O	0	0	0
			628	374	127	127			

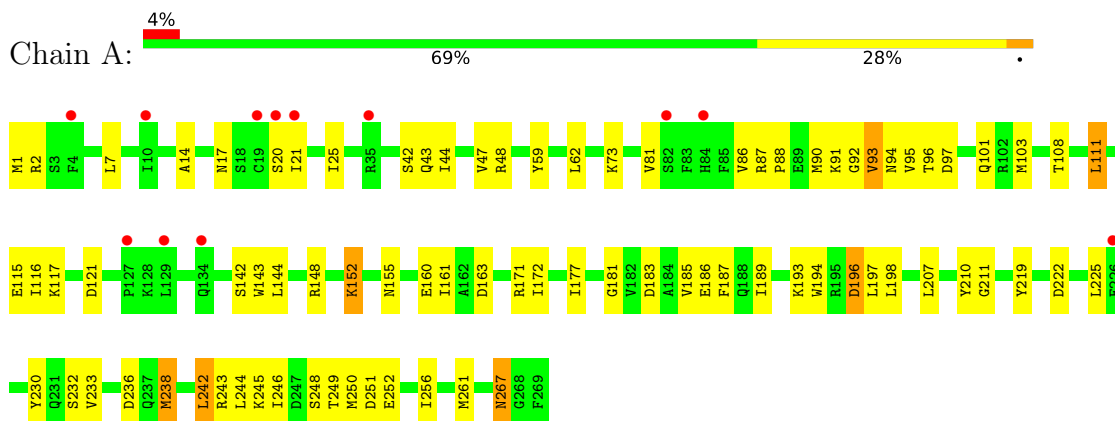
- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	1	Total	Ca	0	0
			1	1		
5	B	1	Total	Ca	0	0
			1	1		
5	C	1	Total	Ca	0	0
			1	1		
5	D	1	Total	Ca	0	0
			1	1		
5	E	1	Total	Ca	0	0
			1	1		
5	F	1	Total	Ca	0	0
			1	1		
5	G	1	Total	Ca	0	0
			1	1		
5	H	1	Total	Ca	0	0
			1	1		
5	I	1	Total	Ca	0	0
			1	1		
5	J	1	Total	Ca	0	0
			1	1		
5	L	1	Total	Ca	0	0
			1	1		

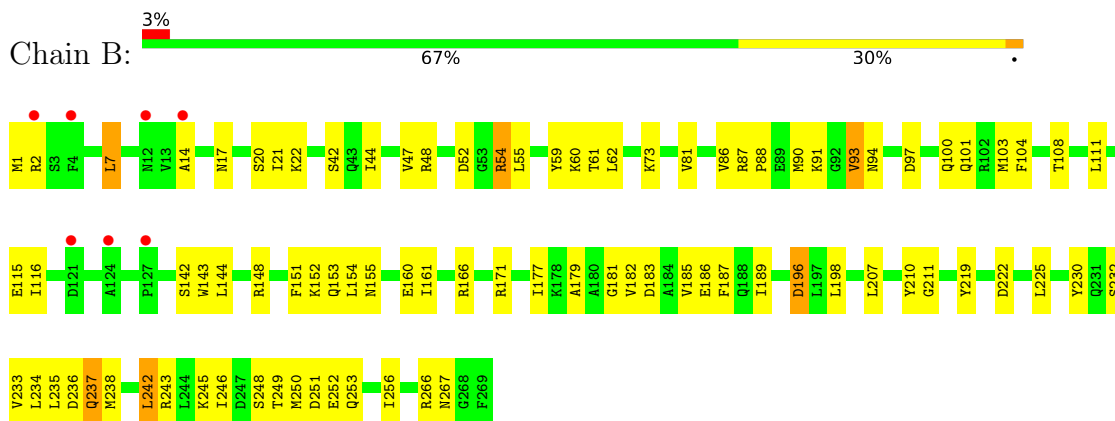
3 Residue-property plots [i](#)

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 electron 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 dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). 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: MAJOR CAPSID PROTEIN P2

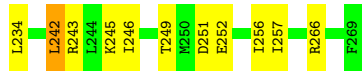


- Molecule 1: MAJOR CAPSID PROTEIN P2

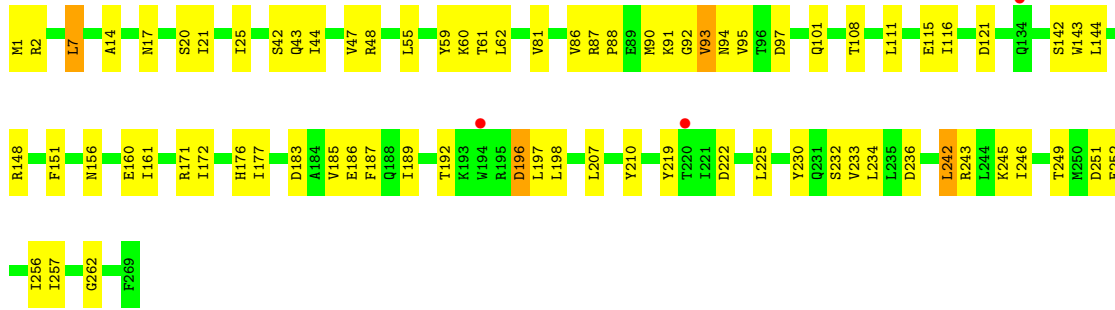


- Molecule 1: MAJOR CAPSID PROTEIN P2

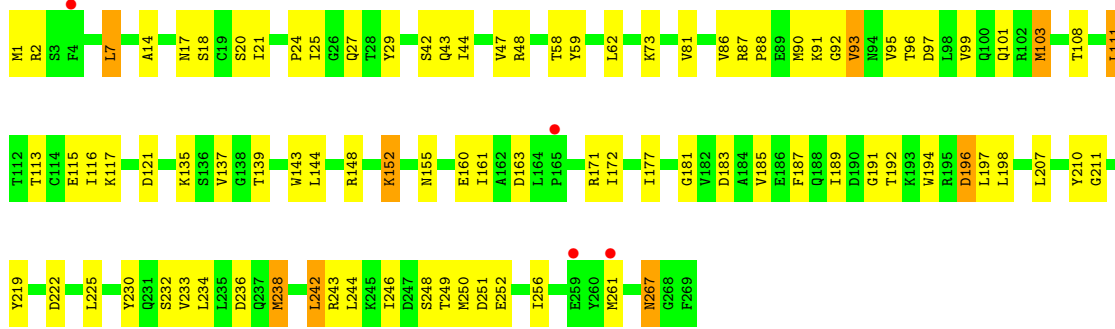




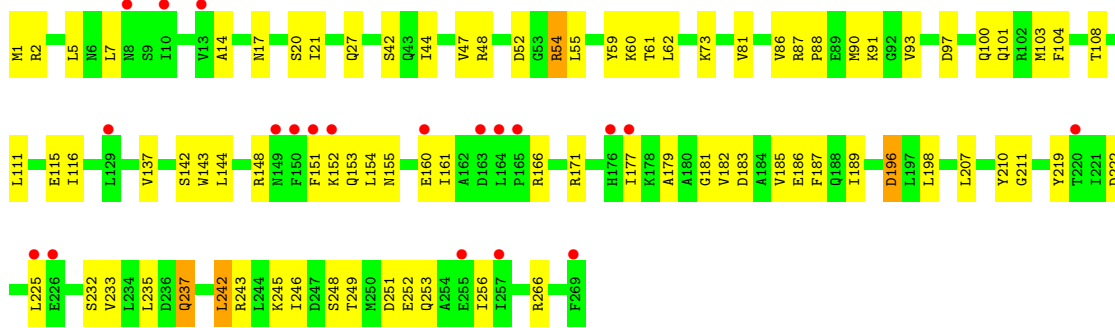
● Molecule 1: MAJOR CAPSID PROTEIN P2



● Molecule 1: MAJOR CAPSID PROTEIN P2

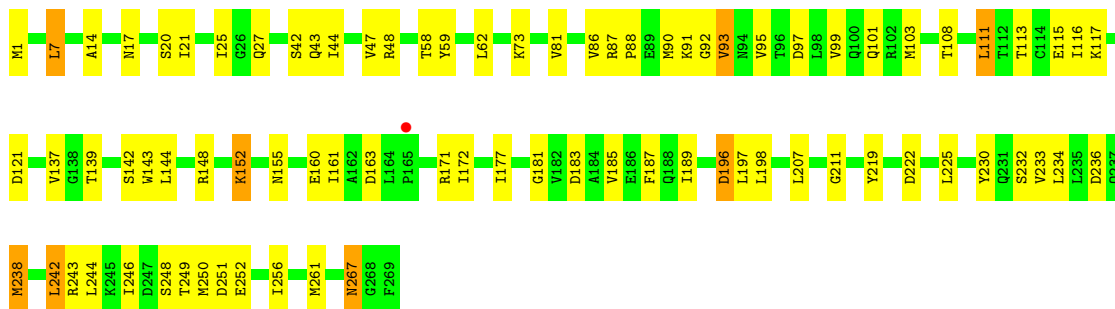


● Molecule 1: MAJOR CAPSID PROTEIN P2

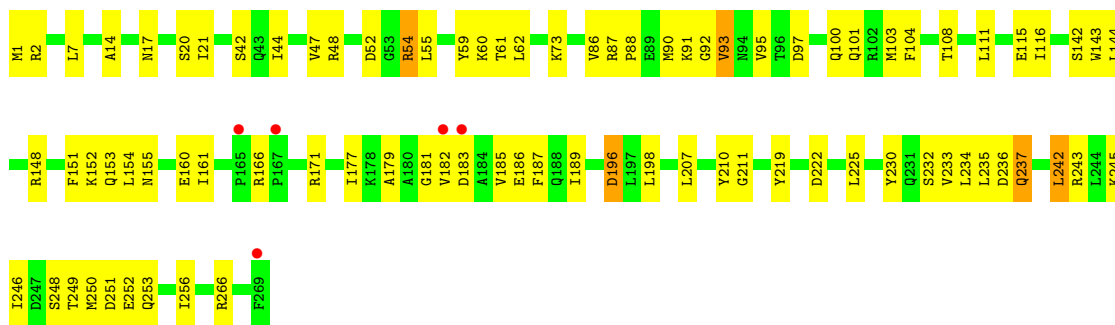


● Molecule 1: MAJOR CAPSID PROTEIN P2

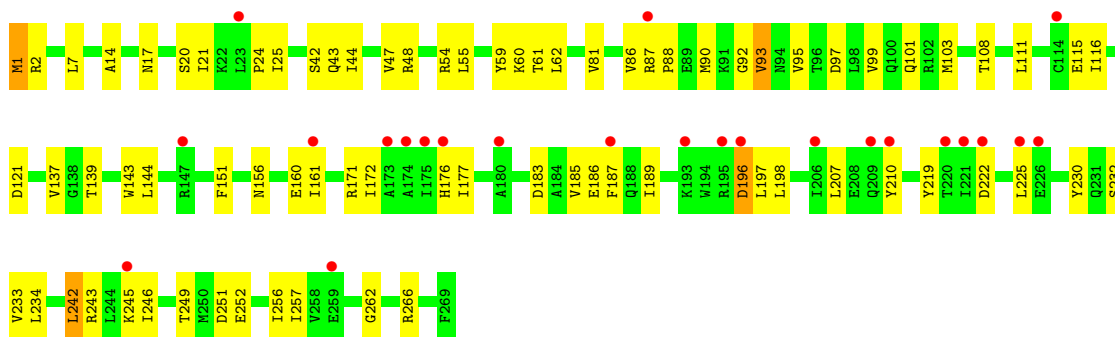




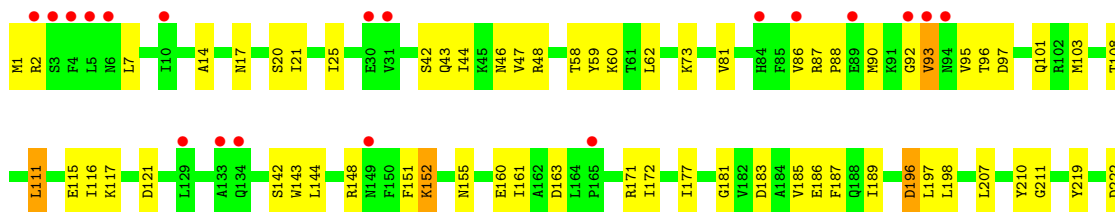
• Molecule 1: MAJOR CAPSID PROTEIN P2



• Molecule 1: MAJOR CAPSID PROTEIN P2

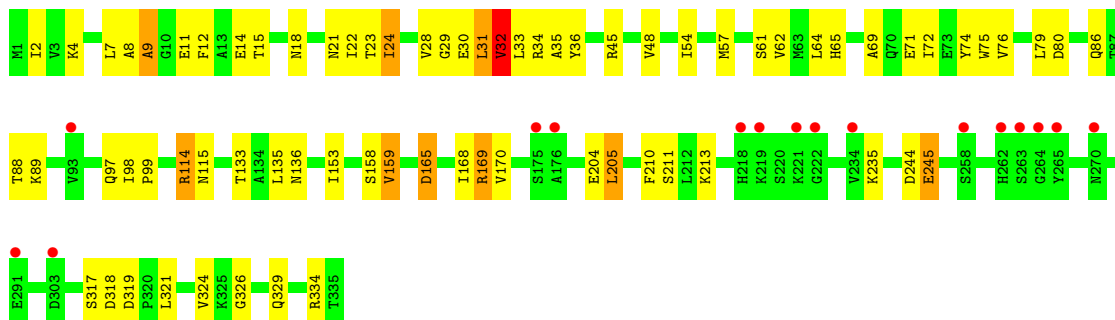
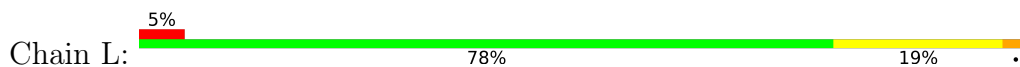


• Molecule 1: MAJOR CAPSID PROTEIN P2

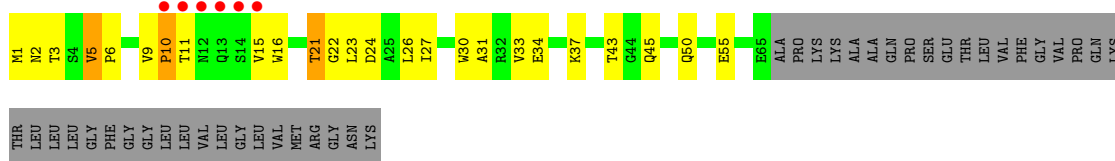




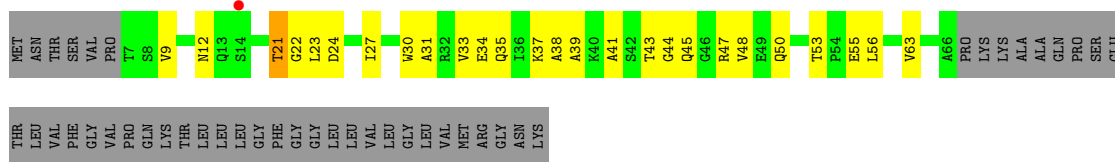
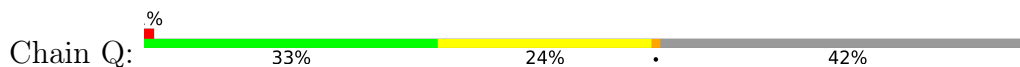
• Molecule 2: PROTEIN 2



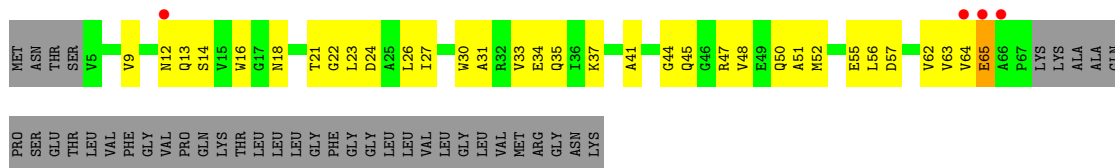
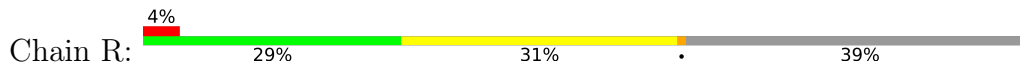
• Molecule 3: PROTEIN P3



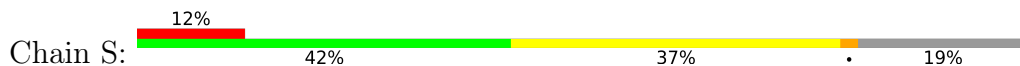
• Molecule 3: PROTEIN P3

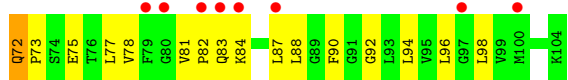
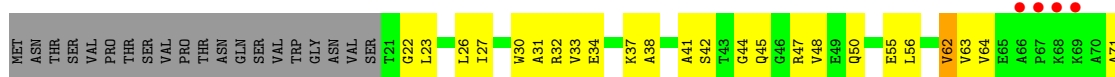


• Molecule 3: PROTEIN P3

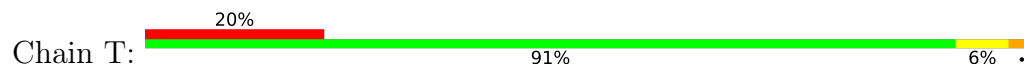


• Molecule 3: PROTEIN P3





• Molecule 4: PROTEIN P6



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	946.90Å 677.60Å 1067.60Å 90.00° 102.90° 90.00°	Depositor
Resolution (Å)	96.00 – 7.00 96.28 – 7.00	Depositor EDS
% Data completeness (in resolution range)	82.9 (96.00-7.00) 82.9 (96.28-7.00)	Depositor EDS
R_{merge}	0.32	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.52 (at 6.73Å)	Xtriage
Refinement program	X-PLOR 3.1	Depositor
R, R_{free}	0.419 , (Not available) 0.352 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	132.6	Xtriage
Anisotropy	0.244	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.21 , -10.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.36$, $\langle L^2 \rangle = 0.18$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.68	EDS
Total number of atoms	26447	wwPDB-VP
Average B, all atoms (Å ²)	40.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.37% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.29	1/2158 (0.0%)	0.45	1/2917 (0.0%)
1	B	0.24	0/2158	0.45	0/2917
1	C	0.27	0/2158	0.46	0/2917
1	D	0.27	0/2158	0.46	0/2917
1	E	0.29	1/2158 (0.0%)	0.45	1/2917 (0.0%)
1	F	0.24	0/2158	0.45	0/2917
1	G	0.29	1/2158 (0.0%)	0.45	1/2917 (0.0%)
1	H	0.24	0/2158	0.45	0/2917
1	I	0.27	0/2158	0.46	0/2917
1	J	0.29	1/2158 (0.0%)	0.45	1/2917 (0.0%)
2	L	0.77	3/2688 (0.1%)	0.82	8/3646 (0.2%)
3	P	0.28	0/457	0.38	0/624
3	Q	0.28	0/437	0.36	0/596
3	R	0.29	0/460	0.38	0/630
3	S	0.30	0/615	0.39	0/831
4	T	0.34	0/627	0.48	3/872 (0.3%)
All	All	0.35	7/26864 (0.0%)	0.50	15/36369 (0.0%)

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
2	L	0	5

The worst 5 of 7 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	L	169	ARG	C-N	26.31	1.94	1.34
2	L	324	VAL	C-N	12.83	1.63	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	111	LEU	CG-CD1	-5.28	1.32	1.51
1	J	111	LEU	CG-CD1	-5.28	1.32	1.51
1	G	111	LEU	CG-CD1	-5.27	1.32	1.51

The worst 5 of 15 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	L	169	ARG	O-C-N	-21.96	87.56	122.70
2	L	169	ARG	CA-C-N	9.86	138.88	117.20
2	L	115	ASN	N-CA-C	9.49	136.62	111.00
2	L	165	ASP	O-C-N	-8.63	108.89	122.70
2	L	169	ARG	C-N-CA	8.01	141.71	121.70

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	L	114	ARG	Peptide
2	L	158	SER	Peptide
2	L	165	ASP	Mainchain
2	L	326	GLY	Peptide
2	L	98	ILE	Peptide

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	2123	0	2155	96	0
1	B	2123	0	2156	79	0
1	C	2123	0	2155	126	0
1	D	2123	0	2156	65	0
1	E	2123	0	2153	145	0
1	F	2123	0	2156	60	0
1	G	2123	0	2153	102	0
1	H	2123	0	2156	79	0
1	I	2123	0	2154	120	0
1	J	2123	0	2154	54	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	L	2634	0	2479	76	0
3	P	451	0	425	94	0
3	Q	432	0	425	119	0
3	R	453	0	443	141	0
3	S	608	0	641	132	0
4	T	628	0	311	4	0
5	A	1	0	0	0	0
5	B	1	0	0	0	0
5	C	1	0	0	0	0
5	D	1	0	0	0	0
5	E	1	0	0	0	0
5	F	1	0	0	0	0
5	G	1	0	0	0	0
5	H	1	0	0	0	0
5	I	1	0	0	0	0
5	J	1	0	0	0	0
5	L	1	0	0	0	0
All	All	26447	0	26272	1012	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 19.

The worst 5 of 1012 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:A:230:TYR:CE1	3:P:1:MET:HG2	1.24	1.70
1:A:230:TYR:CZ	3:P:1:MET:HG2	1.32	1.59
1:E:113:THR:HG21	3:S:56:LEU:CD2	1.37	1.50
1:A:230:TYR:CE1	3:P:1:MET:CG	1.92	1.47
1:D:234:LEU:H	3:R:47:ARG:NH1	1.10	1.47

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 X-ray entries followed by that with respect to entries of similar resolution.

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	267/269 (99%)	250 (94%)	16 (6%)	1 (0%)	34	72
1	B	267/269 (99%)	251 (94%)	16 (6%)	0	100	100
1	C	267/269 (99%)	252 (94%)	14 (5%)	1 (0%)	34	72
1	D	267/269 (99%)	251 (94%)	15 (6%)	1 (0%)	34	72
1	E	267/269 (99%)	250 (94%)	16 (6%)	1 (0%)	34	72
1	F	267/269 (99%)	251 (94%)	16 (6%)	0	100	100
1	G	267/269 (99%)	250 (94%)	16 (6%)	1 (0%)	34	72
1	H	267/269 (99%)	251 (94%)	16 (6%)	0	100	100
1	I	267/269 (99%)	252 (94%)	14 (5%)	1 (0%)	34	72
1	J	267/269 (99%)	250 (94%)	16 (6%)	1 (0%)	34	72
2	L	331/335 (99%)	306 (92%)	19 (6%)	6 (2%)	8	40
3	P	63/104 (61%)	56 (89%)	5 (8%)	2 (3%)	4	26
3	Q	58/104 (56%)	51 (88%)	6 (10%)	1 (2%)	9	42
3	R	61/104 (59%)	53 (87%)	6 (10%)	2 (3%)	4	26
3	S	82/104 (79%)	74 (90%)	6 (7%)	2 (2%)	6	33
4	T	125/127 (98%)	112 (90%)	7 (6%)	6 (5%)	2	21
All	All	3390/3568 (95%)	3160 (93%)	204 (6%)	26 (1%)	19	60

5 of 26 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	L	32	VAL
2	L	99	PRO
3	R	65	GLU
3	S	72	GLN
4	T	35	PRO

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 X-ray entries followed by that with respect to entries of similar resolution.

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	232/232 (100%)	219 (94%)	13 (6%)	21	46
1	B	232/232 (100%)	219 (94%)	13 (6%)	21	46
1	C	232/232 (100%)	221 (95%)	11 (5%)	26	51
1	D	232/232 (100%)	221 (95%)	11 (5%)	26	51
1	E	232/232 (100%)	217 (94%)	15 (6%)	17	42
1	F	232/232 (100%)	219 (94%)	13 (6%)	21	46
1	G	232/232 (100%)	218 (94%)	14 (6%)	19	44
1	H	232/232 (100%)	219 (94%)	13 (6%)	21	46
1	I	232/232 (100%)	221 (95%)	11 (5%)	26	51
1	J	232/232 (100%)	218 (94%)	14 (6%)	19	44
2	L	272/285 (95%)	266 (98%)	6 (2%)	52	71
3	P	44/81 (54%)	42 (96%)	2 (4%)	27	52
3	Q	45/81 (56%)	44 (98%)	1 (2%)	52	71
3	R	48/81 (59%)	48 (100%)	0	100	100
3	S	62/81 (76%)	61 (98%)	1 (2%)	62	79
All	All	2791/2929 (95%)	2653 (95%)	138 (5%)	25	50

5 of 138 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	J	7	LEU
1	J	103	MET
2	L	32	VAL
1	E	1	MET
1	D	252	GLU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 13 such sidechains are listed below:

Mol	Chain	Res	Type
1	G	155	ASN
1	G	253	GLN
3	R	18	ASN
2	L	152	GLN
2	L	329	GLN

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](#)

Of 11 ligands modelled in this entry, 11 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
2	L	3

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	88:THR	C	89:LYS	N	2.88
1	L	169:ARG	C	170:VAL	N	1.94

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L	324:VAL	C	325:LYS	N	1.63

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

In the following table, the column labelled '#RSRZ > 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q < 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	269/269 (100%)	0.08	12 (4%) 33 31	40, 40, 40, 40	0
1	B	269/269 (100%)	0.07	7 (2%) 56 49	40, 40, 40, 40	0
1	C	269/269 (100%)	0.24	20 (7%) 14 15	40, 40, 40, 40	0
1	D	269/269 (100%)	-0.08	3 (1%) 80 73	40, 40, 40, 40	0
1	E	269/269 (100%)	-0.13	4 (1%) 73 65	40, 40, 40, 40	0
1	F	269/269 (100%)	0.24	20 (7%) 14 15	40, 40, 40, 40	0
1	G	269/269 (100%)	-0.11	1 (0%) 92 87	40, 40, 40, 40	0
1	H	269/269 (100%)	-0.05	5 (1%) 66 59	40, 40, 40, 40	0
1	I	269/269 (100%)	0.45	24 (8%) 9 12	40, 40, 40, 40	0
1	J	269/269 (100%)	0.36	23 (8%) 10 13	40, 40, 40, 40	0
2	L	335/335 (100%)	0.33	16 (4%) 30 29	40, 40, 40, 40	0
3	P	65/104 (62%)	0.26	6 (9%) 9 11	40, 40, 40, 40	0
3	Q	60/104 (57%)	-0.15	1 (1%) 70 62	40, 40, 40, 40	0
3	R	63/104 (60%)	0.07	4 (6%) 20 19	40, 40, 40, 40	0
3	S	84/104 (80%)	0.69	12 (14%) 2 6	40, 40, 40, 40	0
4	T	127/127 (100%)	1.06	26 (20%) 1 3	40, 40, 40, 40	0
All	All	3424/3568 (95%)	0.18	184 (5%) 25 26	40, 40, 40, 40	0

The worst 5 of 184 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	J	4	PHE	5.9
3	P	14	SER	5.7
1	F	165	PRO	5.0
1	I	196	ASP	4.9
3	S	68	LYS	4.9

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

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

6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
5	CA	B	1270	1/1	0.64	0.17	40,40,40,40	0
5	CA	C	1270	1/1	0.68	0.11	40,40,40,40	0
5	CA	H	1270	1/1	0.69	0.13	40,40,40,40	0
5	CA	E	1270	1/1	0.72	0.18	40,40,40,40	0
5	CA	F	1270	1/1	0.87	0.10	40,40,40,40	0
5	CA	G	1270	1/1	0.87	0.09	40,40,40,40	0
5	CA	D	1270	1/1	0.87	0.18	40,40,40,40	0
5	CA	J	1270	1/1	0.88	0.33	40,40,40,40	0
5	CA	A	1270	1/1	0.91	0.14	40,40,40,40	0
5	CA	L	400	1/1	0.92	0.62	40,40,40,40	0
5	CA	I	1270	1/1	0.98	0.10	40,40,40,40	0

6.5 Other polymers [i](#)

There are no such residues in this entry.