



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 5, 2026 – 03:35 PM UTC

PDB ID : 6OMI / pdb_00006omi
Title : Crystal structure of the Legionella effector protein MavL
Authors : Cygler, M.; Voth, K.
Deposited on : 2019-04-18
Resolution : 2.64 Å(reported)

This is a Full wwPDB X-ray Structure 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/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	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

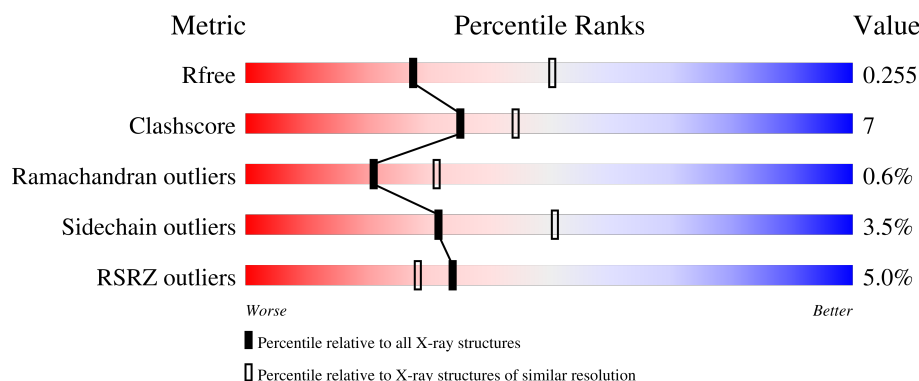
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.64 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))
R_{free}	180053	2053 (2.66-2.62)
Clashscore	190562	2097 (2.66-2.62)
Ramachandran outliers	187476	2066 (2.66-2.62)
Sidechain outliers	187428	2066 (2.66-2.62)
RSRZ outliers	180081	2052 (2.66-2.62)

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	396	5% 74% 16% • 9%
1	B	396	4% 77% 14% • 9%
1	C	396	5% 74% 16% • 9%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 8108 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 MavL.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
1	A	361	Total	C	N	O	S	Se	0	0	0
			2660	1688	444	519	1	8			
1	B	362	Total	C	N	O	S	Se	0	0	0
			2739	1742	459	529	1	8			
1	C	361	Total	C	N	O	S	Se	0	0	0
			2693	1707	451	526	1	8			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	40	ASN	-	expression tag	UNP Q5ZSJ1
A	41	ALA	-	expression tag	UNP Q5ZSJ1
B	40	ASN	-	expression tag	UNP Q5ZSJ1
B	41	ALA	-	expression tag	UNP Q5ZSJ1
C	40	ASN	-	expression tag	UNP Q5ZSJ1
C	41	ALA	-	expression tag	UNP Q5ZSJ1

- Molecule 2 is BROMIDE ION (CCD ID: BR) (formula: Br).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	1	Total	Br	0	0
			1	1		
2	C	1	Total	Br	0	0
			1	1		

- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	3	Total	O	0	0
			3	3		
3	B	6	Total	O	0	0
			6	6		

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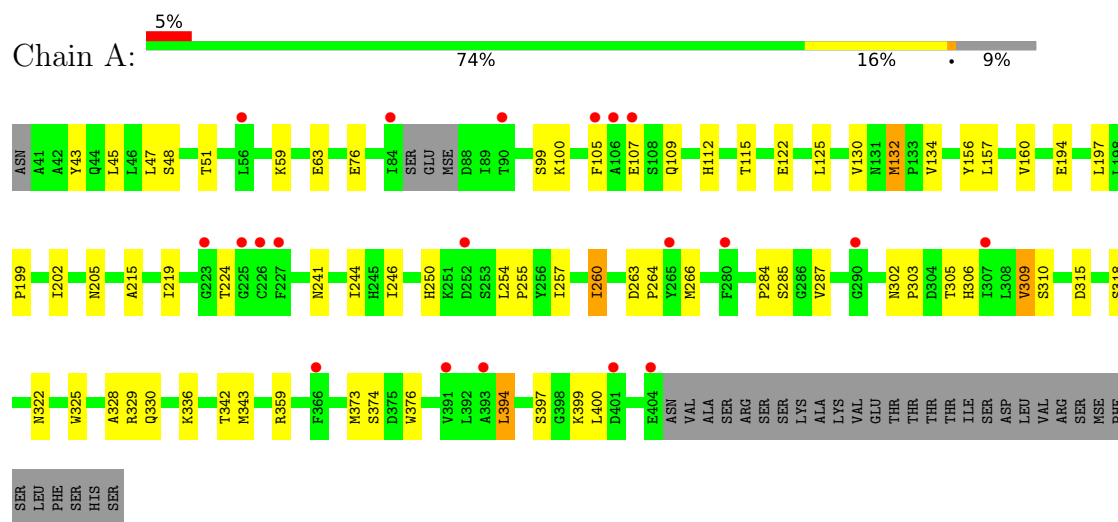
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	5	Total	O	0	0
			5	5		

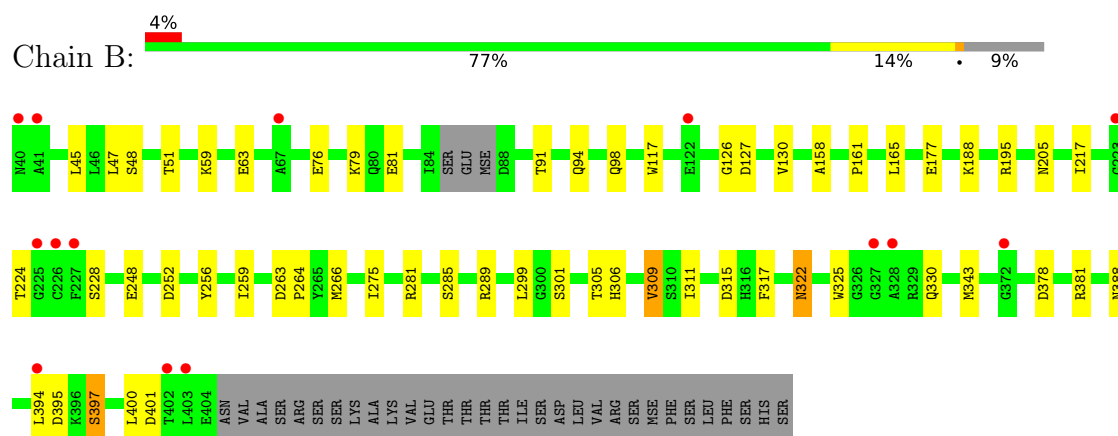
3 Residue-property plots [i](#)

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.

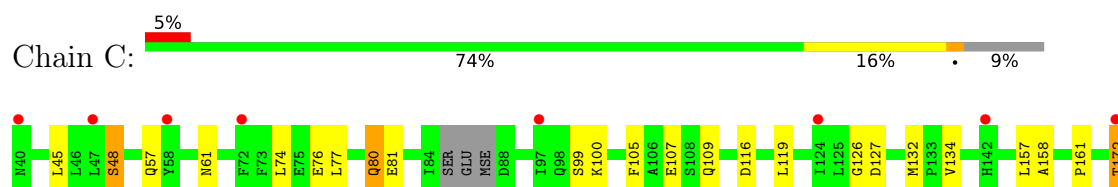
• Molecule 1: MavL

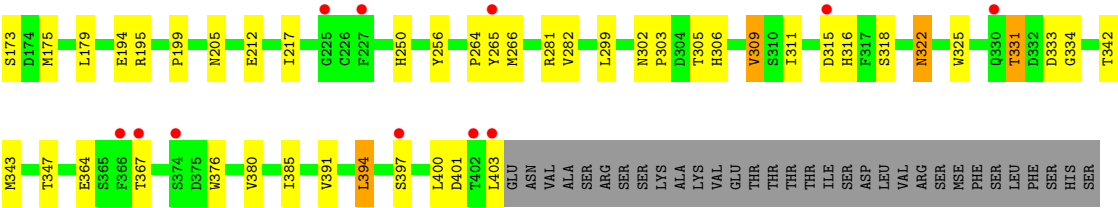


• Molecule 1: MavL



• Molecule 1: MavL





4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	97.62Å 138.01Å 108.52Å 90.00° 92.23° 90.00°	Depositor
Resolution (Å)	45.14 – 2.64 45.14 – 2.64	Depositor EDS
% Data completeness (in resolution range)	99.3 (45.14-2.64) 99.2 (45.14-2.64)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.59 (at 2.65Å)	Xtriage
Refinement program	PHENIX (1.15.2_3472)	Depositor
R, R_{free}	0.211 , 0.253 0.216 , 0.255	Depositor DCC
R_{free} test set	1251 reflections (2.98%)	wwPDB-VP
Wilson B-factor (Å ²)	80.0	Xtriage
Anisotropy	0.403	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 93.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.012 for -h,-k,l	Xtriage
F_o, F_c correlation	0.95	EDS
Total number of atoms	8108	wwPDB-VP
Average B, all atoms (Å ²)	102.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 5.62% 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: BR

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	0.12	0/2720	0.34	0/3703
1	B	0.12	0/2799	0.32	0/3801
1	C	0.12	0/2753	0.34	0/3743
All	All	0.12	0/8272	0.33	0/11247

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	2660	0	2392	47	0
1	B	2739	0	2573	30	0
1	C	2693	0	2458	39	0
2	A	1	0	0	1	0
2	C	1	0	0	0	0
3	A	3	0	0	0	0
3	B	6	0	0	0	0
3	C	5	0	0	0	0
All	All	8108	0	7423	115	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 7.

All (115) 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:359:ARG:NH2	2:A:501:BR:BR	2.55	0.94
1:C:76:GLU:HG3	1:C:99:SER:HA	1.59	0.85
1:A:132:MSE:HE1	1:A:342:THR:HA	1.61	0.82
1:C:364:GLU:HA	1:C:367:THR:HG22	1.62	0.81
1:C:77:LEU:O	1:C:80:GLN:NE2	2.17	0.77
1:B:76:GLU:OE1	1:B:98:GLN:NE2	2.23	0.71
1:C:305:THR:HG23	1:C:306:HIS:HD1	1.57	0.69
1:A:330:GLN:HG3	1:B:330:GLN:CD	2.19	0.67
1:B:315:ASP:OD2	1:B:322:ASN:ND2	2.27	0.67
1:C:132:MSE:HE1	1:C:342:THR:HA	1.75	0.66
1:B:305:THR:HG23	1:B:306:HIS:HD1	1.59	0.66
1:B:94:GLN:NE2	1:B:388:ASN:OD1	2.30	0.64
1:A:305:THR:HG23	1:A:306:HIS:HD1	1.62	0.64
1:A:205:ASN:HD21	1:A:255:PRO:HD2	1.62	0.62
1:A:373:MSE:HG2	1:A:374:SER:H	1.66	0.60
1:A:43:TYR:HB3	1:A:132:MSE:HG2	1.83	0.60
1:B:281:ARG:NH1	1:B:299:LEU:O	2.32	0.59
1:B:94:GLN:HB3	1:B:388:ASN:HD21	1.71	0.55
1:C:315:ASP:OD2	1:C:322:ASN:ND2	2.39	0.55
1:B:325:TRP:CE2	1:B:343:MSE:HE3	2.42	0.55
1:C:331:THR:HG22	1:C:334:GLY:H	1.71	0.54
1:B:252:ASP:N	1:B:252:ASP:OD1	2.40	0.54
1:C:347:THR:HA	1:C:385:ILE:HG21	1.89	0.53
1:A:315:ASP:OD1	1:A:318:SER:OG	2.19	0.53
1:A:325:TRP:CE2	1:A:343:MSE:HE3	2.44	0.53
1:C:80:GLN:NE2	1:C:80:GLN:H	2.07	0.52
1:A:202:ILE:HD11	1:A:394:LEU:HD11	1.90	0.52
1:A:328:ALA:HB1	1:A:330:GLN:HG2	1.92	0.52
1:C:57:GLN:O	1:C:61:ASN:ND2	2.28	0.52
1:C:325:TRP:CE2	1:C:343:MSE:HE3	2.46	0.51
1:C:132:MSE:HE2	1:C:134:VAL:HG12	1.92	0.51
1:C:281:ARG:NH1	1:C:299:LEU:O	2.34	0.50
1:A:205:ASN:ND2	1:A:255:PRO:HD2	2.25	0.50
1:B:45:LEU:HD23	1:B:130:VAL:HB	1.94	0.50
1:A:112:HIS:ND1	1:A:122:GLU:OE2	2.44	0.50
1:C:302:ASN:OD1	1:C:305:THR:HG22	2.12	0.50
1:A:76:GLU:HG3	1:A:99:SER:HA	1.94	0.50
1:B:126:GLY:O	1:B:161:PRO:HG2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:202:ILE:HG12	1:A:394:LEU:HD21	1.93	0.50
1:A:284:PRO:HB2	1:A:287:VAL:HG22	1.94	0.50
1:C:217:ILE:HG12	1:C:309:VAL:HG13	1.94	0.50
1:A:373:MSE:HG2	1:A:374:SER:N	2.25	0.49
1:C:158:ALA:HB3	1:C:311:ILE:HD13	1.94	0.49
1:A:260:ILE:O	1:A:260:ILE:HG13	2.12	0.49
1:C:45:LEU:HB2	1:C:391:VAL:HG22	1.93	0.49
1:C:134:VAL:HG21	1:C:157:LEU:HG	1.95	0.49
1:B:217:ILE:HG12	1:B:309:VAL:HG13	1.94	0.49
1:C:74:LEU:HA	1:C:77:LEU:HD12	1.95	0.49
1:C:126:GLY:O	1:C:161:PRO:HG2	2.13	0.49
1:A:105:PHE:HB2	1:A:109:GLN:HG3	1.94	0.49
1:A:302:ASN:OD1	1:A:305:THR:HG22	2.13	0.48
1:C:331:THR:HG23	1:C:333:ASP:H	1.79	0.48
1:C:305:THR:HG23	1:C:306:HIS:ND1	2.27	0.48
1:C:265:TYR:HD2	1:C:266:MSE:HG2	1.78	0.47
1:A:241:ASN:O	1:A:244:ILE:HG13	2.14	0.47
1:C:302:ASN:HB2	1:C:303:PRO:HD2	1.97	0.47
1:A:59:LYS:O	1:A:63:GLU:HG2	2.14	0.47
1:A:215:ALA:HB3	1:A:257:ILE:HG22	1.96	0.47
1:A:394:LEU:HD12	1:A:399:LYS:HB3	1.96	0.47
1:C:199:PRO:HG3	1:C:394:LEU:HD22	1.97	0.47
1:A:264:PRO:O	1:A:266:MSE:N	2.46	0.47
1:A:107:GLU:N	1:A:107:GLU:OE1	2.46	0.46
1:A:263:ASP:OD2	1:A:285:SER:OG	2.30	0.46
1:B:127:ASP:OD2	1:B:195:ARG:NE	2.43	0.46
1:B:263:ASP:OD2	1:B:285:SER:OG	2.32	0.45
1:C:48:SER:OG	1:C:195:ARG:O	2.26	0.45
1:A:310:SER:OG	1:A:336:LYS:HE2	2.17	0.45
1:C:127:ASP:OD2	1:C:195:ARG:NE	2.43	0.45
1:B:378:ASP:OD1	1:B:381:ARG:NH2	2.46	0.45
1:B:264:PRO:O	1:B:266:MSE:N	2.46	0.45
1:B:259:ILE:HD12	1:B:301:SER:HB3	1.99	0.45
1:A:107:GLU:H	1:A:107:GLU:CD	2.25	0.44
1:B:289:ARG:HA	1:B:289:ARG:HD2	1.82	0.44
1:A:134:VAL:HG21	1:A:157:LEU:HG	2.00	0.44
1:A:156:TYR:HB2	1:A:309:VAL:HG12	1.98	0.44
1:A:48:SER:OG	1:A:51:THR:HG23	2.17	0.44
1:B:94:GLN:HB3	1:B:388:ASN:ND2	2.33	0.44
1:A:254:LEU:HB3	1:A:257:ILE:HG12	2.00	0.43
1:B:395:ASP:OD1	1:B:397:SER:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:ALA:HB3	1:B:311:ILE:HD13	1.99	0.43
1:B:59:LYS:NZ	1:B:63:GLU:OE1	2.52	0.43
1:C:172:THR:OG1	1:C:173:SER:N	2.52	0.43
1:A:219:ILE:HD12	1:A:260:ILE:HD12	2.01	0.43
1:B:48:SER:OG	1:B:51:THR:HG23	2.19	0.43
1:C:175:MSE:O	1:C:179:LEU:HB2	2.18	0.43
1:C:264:PRO:O	1:C:266:MSE:N	2.51	0.42
1:A:302:ASN:HB2	1:A:303:PRO:HD2	2.00	0.42
1:B:177:GLU:O	1:B:188:LYS:HD3	2.20	0.42
1:B:205:ASN:OD1	1:B:256:TYR:HB2	2.19	0.42
1:B:400:LEU:HB3	1:B:401:ASP:H	1.67	0.42
1:A:160:VAL:HG21	1:A:197:LEU:HD23	2.01	0.42
1:B:305:THR:HG23	1:B:306:HIS:ND1	2.28	0.42
1:A:199:PRO:O	1:A:202:ILE:HG13	2.20	0.41
1:C:194:GLU:OE2	1:C:250:HIS:NE2	2.42	0.41
1:B:165:LEU:HB2	1:B:228:SER:HA	2.02	0.41
1:A:194:GLU:OE1	1:A:250:HIS:NE2	2.53	0.41
1:A:329:ARG:HD2	1:A:359:ARG:HG2	2.02	0.41
1:A:343:MSE:HG2	1:A:376:TRP:CG	2.56	0.41
1:C:400:LEU:HB3	1:C:401:ASP:H	1.67	0.41
1:A:105:PHE:HD2	1:A:109:GLN:CD	2.28	0.41
1:C:343:MSE:HG2	1:C:376:TRP:CG	2.55	0.41
1:A:45:LEU:HD23	1:A:130:VAL:HB	2.02	0.41
1:A:215:ALA:HB3	1:A:257:ILE:HA	2.02	0.41
1:A:305:THR:HG23	1:A:306:HIS:ND1	2.30	0.41
1:B:248:GLU:HG2	1:B:275:ILE:HG23	2.03	0.41
1:C:205:ASN:OD1	1:C:256:TYR:HB2	2.20	0.41
1:C:217:ILE:HA	1:C:309:VAL:O	2.21	0.41
1:C:380:VAL:HG22	1:C:385:ILE:HB	2.02	0.41
1:C:105:PHE:HB2	1:C:109:GLN:HG3	2.03	0.41
1:A:400:LEU:HD23	1:A:400:LEU:HA	1.82	0.41
1:B:117:TRP:CH2	1:B:317:PHE:HB3	2.55	0.41
1:A:132:MSE:HE2	1:A:132:MSE:HB2	1.86	0.40
1:C:107:GLU:OE1	1:C:107:GLU:N	2.54	0.40
1:C:100:LYS:NZ	1:C:316:HIS:O	2.46	0.40
1:A:100:LYS:HD2	1:A:125:LEU:HD22	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	357/396 (90%)	323 (90%)	32 (9%)	2 (1%)	21	31
1	B	358/396 (90%)	325 (91%)	31 (9%)	2 (1%)	21	31
1	C	357/396 (90%)	326 (91%)	29 (8%)	2 (1%)	21	31
All	All	1072/1188 (90%)	974 (91%)	92 (9%)	6 (1%)	21	31

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	322	ASN
1	B	322	ASN
1	B	397	SER
1	A	397	SER
1	C	322	ASN
1	C	397	SER

5.3.2 Protein sidechains

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	256/329 (78%)	248 (97%)	8 (3%)	35	55
1	B	280/329 (85%)	273 (98%)	7 (2%)	42	63
1	C	266/329 (81%)	253 (95%)	13 (5%)	22	37
All	All	802/987 (81%)	774 (96%)	28 (4%)	32	51

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	47	LEU
1	A	115	THR
1	A	132	MSE
1	A	224	THR
1	A	246	ILE
1	A	260	ILE
1	A	309	VAL
1	A	394	LEU
1	B	47	LEU
1	B	79	LYS
1	B	81	GLU
1	B	91	THR
1	B	224	THR
1	B	309	VAL
1	B	394	LEU
1	C	48	SER
1	C	80	GLN
1	C	81	GLU
1	C	116	ASP
1	C	119	LEU
1	C	172	THR
1	C	212	GLU
1	C	282	VAL
1	C	309	VAL
1	C	318	SER
1	C	331	THR
1	C	394	LEU
1	C	403	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	330	GLN
1	B	80	GLN
1	B	94	GLN
1	B	103	GLN
1	B	383	ASN
1	B	388	ASN
1	C	94	GLN
1	C	131	ASN
1	C	261	HIS

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Mol	Chain	Res	Type
1	C	294	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 2 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](#)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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	353/396 (89%)	0.40	20 (5%)	29 24	66, 102, 146, 186	0
1	B	354/396 (89%)	0.25	14 (3%)	42 35	59, 90, 131, 178	0
1	C	353/396 (89%)	0.41	19 (5%)	31 26	62, 103, 167, 203	0
All	All	1060/1188 (89%)	0.35	53 (5%)	34 28	59, 98, 151, 203	0

All (53) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	227	PHE	7.7
1	B	226	CYS	4.7
1	C	227	PHE	4.0
1	C	403	LEU	3.9
1	C	72	PHE	3.4
1	A	226	CYS	3.4
1	A	290	GLY	3.4
1	A	84	ILE	3.3
1	C	367	THR	3.2
1	A	106	ALA	3.2
1	C	142	HIS	3.1
1	C	330	GLN	3.0
1	C	225	GLY	3.0
1	C	265	TYR	3.0
1	B	327	GLY	2.9
1	B	394	LEU	2.9
1	A	225	GLY	2.9
1	A	90	THR	2.9
1	B	40	ASN	2.8
1	A	252	ASP	2.8
1	A	56	LEU	2.8
1	B	225	GLY	2.8
1	A	227	PHE	2.8

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Mol	Chain	Res	Type	RSRZ
1	A	404	GLU	2.7
1	A	307	ILE	2.7
1	C	47	LEU	2.6
1	A	223	GLY	2.5
1	C	315	ASP	2.5
1	C	402	THR	2.4
1	B	67	ALA	2.4
1	A	280	PHE	2.4
1	A	107	GLU	2.4
1	A	105	PHE	2.4
1	B	403	LEU	2.3
1	A	401	ASP	2.3
1	B	223	GLY	2.3
1	C	124	ILE	2.3
1	B	122	GLU	2.3
1	C	397	SER	2.3
1	A	366	PHE	2.3
1	C	366	PHE	2.2
1	C	58	TYR	2.2
1	A	393	ALA	2.2
1	C	374	SER	2.2
1	B	372	GLY	2.1
1	B	328	ALA	2.1
1	C	172	THR	2.1
1	A	391	VAL	2.1
1	C	97	ILE	2.1
1	B	41	ALA	2.1
1	B	402	THR	2.1
1	A	265	TYR	2.0
1	C	40	ASN	2.0

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 oligosaccharides 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($\text{\AA}^2$)	Q<0.9
2	BR	C	501	1/1	0.96	0.09	100,100,100,100	1
2	BR	A	501	1/1	0.97	0.08	108,108,108,108	0

6.5 Other polymers [i](#)

There are no such residues in this entry.