



# Full wwPDB X-ray Structure Validation Report ⓘ

Oct 19, 2024 – 10:37 PM EDT

PDB ID : 6OMI  
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](mailto: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>.

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

MolProbity : 4.02b-467  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 1.20.1  
EDS : 3.0  
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)  
CCP4 : 9.0.003 (Gargrove)  
Density-Fitness : 1.0.11  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.39

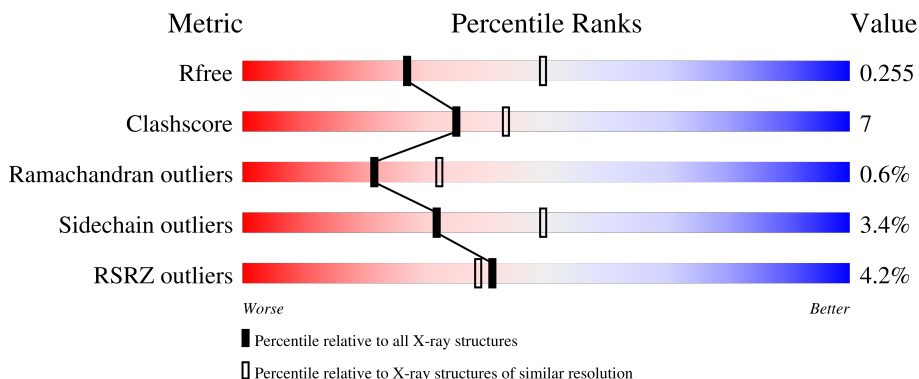
# 1 Overall quality at a glance

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))
$R_{free}$	164625	1851 (2.66-2.62)
Clashscore	180529	1953 (2.66-2.62)
Ramachandran outliers	177936	1929 (2.66-2.62)
Sidechain outliers	177891	1929 (2.66-2.62)
RSRZ outliers	164620	1850 (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  $\geq 3$ , 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% 73% 17% • 9%
1	B	396	 3% 77% 14% • 9%
1	C	396	 4% 74% 15% • 9%

## 2 Entry composition [i](#)

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
			Total	C	N	O	S	Se			
1	A	361	Total 2660	C 1688	N 444	O 519	S 1	Se 8	0	0	0
1	B	362	Total 2739	C 1742	N 459	O 529	S 1	Se 8	0	0	0
1	C	361	Total 2693	C 1707	N 451	O 526	S 1	Se 8	0	0	0

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 (three-letter code: BR) (formula: Br).

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

- Molecule 3 is water.

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

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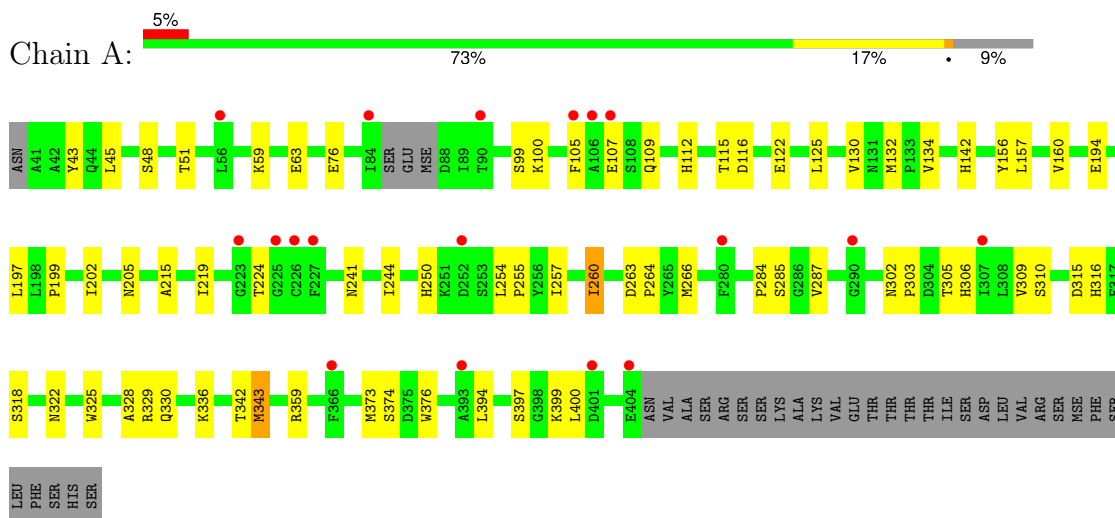
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	C	5	Total	O	0	0
			5	5		

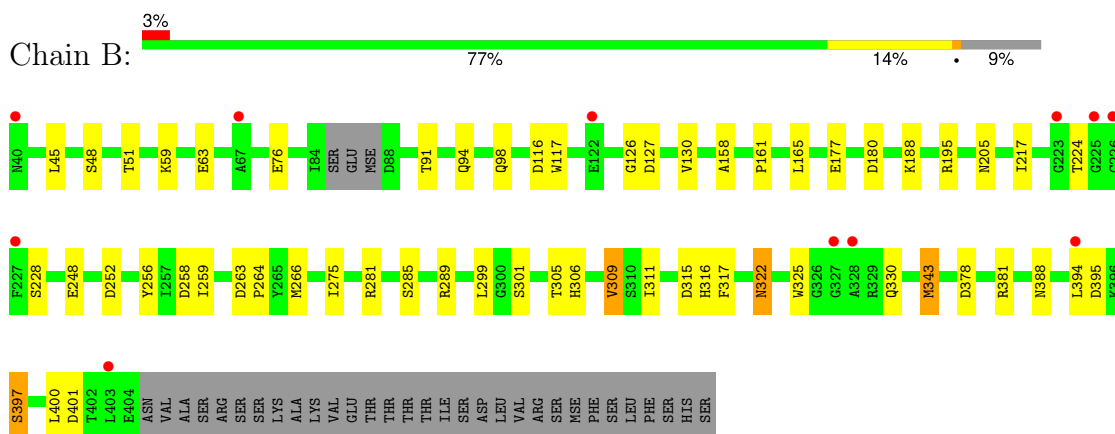
### 3 Residue-property plots [i](#)

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.

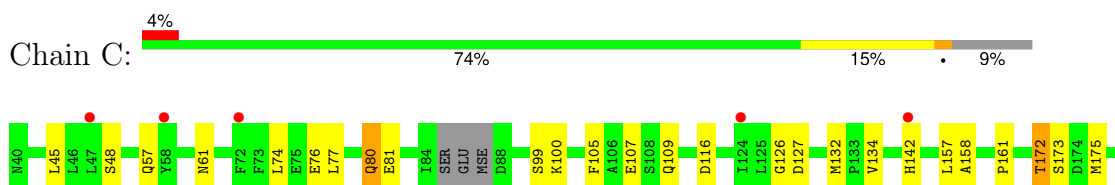
- Molecule 1: MavL

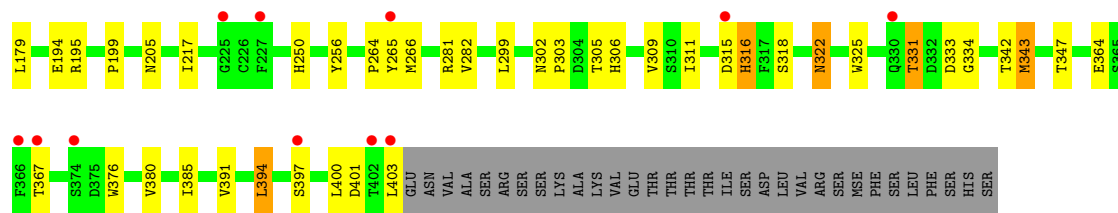


- Molecule 1: MavL



- Molecule 1: MavL





## 4 Data and refinement statistics i

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	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
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.59 (at 2.65Å)	Xtrriage
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	40778 reflections (2.99%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	80.0	Xtrriage
Anisotropy	0.403	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 93.8	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.50$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	0.012 for -h,-k,l	Xtrriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	8108	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	102.0	wwPDB-VP

Xtrriage'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.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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	0.24	0/2720	0.44	0/3703
1	B	0.24	0/2799	0.43	0/3801
1	C	0.24	0/2753	0.44	0/3743
All	All	0.24	0/8272	0.44	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	44	0
1	B	2739	0	2573	31	0
1	C	2693	0	2458	38	0
2	A	1	0	0	1	0
2	C	1	0	0	1	0
3	A	3	0	0	0	0
3	B	6	0	0	0	0
3	C	5	0	0	1	0
All	All	8108	0	7423	113	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 (113) 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:C:501:BR:BR	3:C:605:HOH:O	2.10	1.22
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: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:94:GLN:NE2	1:B:388:ASN:OD1	2.30	0.64
1:A:330:GLN:HG3	1:B:330:GLN:CD	2.19	0.62
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
1:A:202:ILE:HG12	1:A:394:LEU:HD21	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:305:THR:HG23	1:B:306:HIS:ND1	2.28	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:305:THR:HG23	1:A:306:HIS:ND1	2.30	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: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: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
1:B:158:ALA:HB3	1:B:311:ILE:HD13	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
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:B:258:ASP:HB3	1:B:306:HIS:HE2	1.83	0.42
1:A:160:VAL:HG21	1:A:197:LEU:HD23	2.01	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: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: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:B:180:ASP:OD1	1:B:188:LYS:NZ	2.49	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 [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	357/396 (90%)	323 (90%)	32 (9%)	2 (1%)	22	32
1	B	358/396 (90%)	325 (91%)	31 (9%)	2 (1%)	22	32
1	C	357/396 (90%)	326 (91%)	29 (8%)	2 (1%)	22	32
All	All	1072/1188 (90%)	974 (91%)	92 (9%)	6 (1%)	22	32

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 [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	256/329 (78%)	249 (97%)	7 (3%)	40	60
1	B	280/329 (85%)	273 (98%)	7 (2%)	42	63
1	C	266/329 (81%)	253 (95%)	13 (5%)	21	34
All	All	802/987 (81%)	775 (97%)	27 (3%)	32	49

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	115	THR
1	A	116	ASP
1	A	142	HIS
1	A	224	THR
1	A	260	ILE
1	A	316	HIS
1	A	343	MSE
1	B	91	THR
1	B	116	ASP
1	B	224	THR
1	B	309	VAL
1	B	316	HIS
1	B	343	MSE
1	B	394	LEU
1	C	48	SER
1	C	80	GLN
1	C	81	GLU
1	C	116	ASP
1	C	142	HIS
1	C	172	THR
1	C	282	VAL
1	C	316	HIS
1	C	318	SER
1	C	331	THR
1	C	343	MSE
1	C	394	LEU
1	C	403	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (4) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	330	GLN
1	B	94	GLN
1	B	388	ASN
1	C	131	ASN

### 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	353/396 (89%)	0.26	18 (5%) 34 33	66, 102, 146, 186	0
1	B	354/396 (89%)	0.12	11 (3%) 51 50	59, 90, 131, 178	0
1	C	353/396 (89%)	0.28	16 (4%) 39 37	62, 103, 167, 203	0
All	All	1060/1188 (89%)	0.22	45 (4%) 41 39	59, 98, 151, 203	0

All (45) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	227	PHE	7.6
1	B	226	CYS	4.6
1	C	227	PHE	3.8
1	C	403	LEU	3.8
1	A	226	CYS	3.3
1	A	290	GLY	3.3
1	C	72	PHE	3.3
1	A	84	ILE	3.2
1	C	367	THR	3.1
1	A	106	ALA	3.1
1	C	142	HIS	3.0
1	C	330	GLN	2.9
1	C	225	GLY	2.9
1	C	265	TYR	2.8
1	A	90	THR	2.8
1	B	394	LEU	2.8
1	B	327	GLY	2.8
1	A	225	GLY	2.8
1	B	40	ASN	2.7
1	A	252	ASP	2.7
1	A	56	LEU	2.6
1	B	225	GLY	2.6
1	A	404	GLU	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	227	PHE	2.6
1	A	307	ILE	2.6
1	C	47	LEU	2.5
1	C	315	ASP	2.4
1	A	223	GLY	2.4
1	C	402	THR	2.3
1	B	67	ALA	2.3
1	A	107	GLU	2.3
1	A	280	PHE	2.2
1	B	403	LEU	2.2
1	B	122	GLU	2.2
1	A	105	PHE	2.2
1	B	223	GLY	2.2
1	A	401	ASP	2.2
1	C	124	ILE	2.2
1	C	397	SER	2.1
1	A	366	PHE	2.1
1	C	366	PHE	2.1
1	C	58	TYR	2.1
1	C	374	SER	2.1
1	A	393	ALA	2.1
1	B	328	ALA	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 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, 95<sup>th</sup> 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(Å <sup>2</sup> )	Q<0.9
2	BR	C	501	1/1	0.96	0.09	100,100,100,100	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
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.