



wwPDB X-ray Structure Validation Summary Report

Mar 10, 2026 – 11:27 AM UTC

PDB ID : 3IMP / pdb_00003imp
Title : New crystal form of the C-terminal domain of Helicobacter pylori MotB
(residues 125-256)
Authors : Roujeinikova, A.
Deposited on : 2009-08-11
Resolution : 2.50 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 : 4-5-2 with Phenix2.0
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

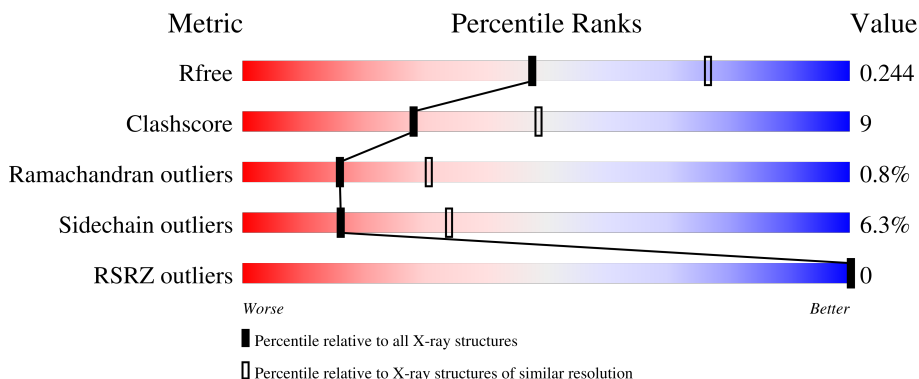
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	138	 70% 22% 5%
1	B	138	 81% 14%
1	C	138	 74% 22%
1	D	138	 72% 21%
1	E	138	 70% 24%

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Mol	Chain	Length	Quality of chain
1	F	138	 79% 15% . .
1	G	138	 75% 17% . .
1	H	138	 72% 21% . .
1	I	138	 69% 22% 5% .
1	J	138	 76% 17% . .
1	K	138	 75% 20% . .
1	L	138	 64% 28% . .

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 13220 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 Chemotaxis protein motB.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	B	133	1071	676	188	203	4	0	0	0
1	C	133	1071	676	188	203	4	0	0	0
1	D	132	1064	671	187	202	4	0	0	0
1	E	132	1064	671	187	202	4	0	0	0
1	A	131	1056	667	185	200	4	0	0	0
1	F	133	1071	676	188	203	4	0	0	0
1	G	132	1064	671	187	202	4	0	1	0
1	H	132	1064	671	187	202	4	0	0	0
1	I	132	1064	671	187	202	4	0	0	0
1	J	132	1064	671	187	202	4	0	0	0
1	K	132	1064	671	187	202	4	0	1	0
1	L	132	1064	671	187	202	4	0	0	0

There are 72 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	119	GLY	-	expression tag	UNP P56427
B	120	ILE	-	expression tag	UNP P56427
B	121	ASP	-	expression tag	UNP P56427
B	122	PRO	-	expression tag	UNP P56427
B	123	PHE	-	expression tag	UNP P56427

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Chain	Residue	Modelled	Actual	Comment	Reference
B	124	THR	-	expression tag	UNP P56427
C	119	GLY	-	expression tag	UNP P56427
C	120	ILE	-	expression tag	UNP P56427
C	121	ASP	-	expression tag	UNP P56427
C	122	PRO	-	expression tag	UNP P56427
C	123	PHE	-	expression tag	UNP P56427
C	124	THR	-	expression tag	UNP P56427
D	119	GLY	-	expression tag	UNP P56427
D	120	ILE	-	expression tag	UNP P56427
D	121	ASP	-	expression tag	UNP P56427
D	122	PRO	-	expression tag	UNP P56427
D	123	PHE	-	expression tag	UNP P56427
D	124	THR	-	expression tag	UNP P56427
E	119	GLY	-	expression tag	UNP P56427
E	120	ILE	-	expression tag	UNP P56427
E	121	ASP	-	expression tag	UNP P56427
E	122	PRO	-	expression tag	UNP P56427
E	123	PHE	-	expression tag	UNP P56427
E	124	THR	-	expression tag	UNP P56427
A	119	GLY	-	expression tag	UNP P56427
A	120	ILE	-	expression tag	UNP P56427
A	121	ASP	-	expression tag	UNP P56427
A	122	PRO	-	expression tag	UNP P56427
A	123	PHE	-	expression tag	UNP P56427
A	124	THR	-	expression tag	UNP P56427
F	119	GLY	-	expression tag	UNP P56427
F	120	ILE	-	expression tag	UNP P56427
F	121	ASP	-	expression tag	UNP P56427
F	122	PRO	-	expression tag	UNP P56427
F	123	PHE	-	expression tag	UNP P56427
F	124	THR	-	expression tag	UNP P56427
G	119	GLY	-	expression tag	UNP P56427
G	120	ILE	-	expression tag	UNP P56427
G	121	ASP	-	expression tag	UNP P56427
G	122	PRO	-	expression tag	UNP P56427
G	123	PHE	-	expression tag	UNP P56427
G	124	THR	-	expression tag	UNP P56427
H	119	GLY	-	expression tag	UNP P56427
H	120	ILE	-	expression tag	UNP P56427
H	121	ASP	-	expression tag	UNP P56427
H	122	PRO	-	expression tag	UNP P56427
H	123	PHE	-	expression tag	UNP P56427

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Chain	Residue	Modelled	Actual	Comment	Reference
H	124	THR	-	expression tag	UNP P56427
I	119	GLY	-	expression tag	UNP P56427
I	120	ILE	-	expression tag	UNP P56427
I	121	ASP	-	expression tag	UNP P56427
I	122	PRO	-	expression tag	UNP P56427
I	123	PHE	-	expression tag	UNP P56427
I	124	THR	-	expression tag	UNP P56427
J	119	GLY	-	expression tag	UNP P56427
J	120	ILE	-	expression tag	UNP P56427
J	121	ASP	-	expression tag	UNP P56427
J	122	PRO	-	expression tag	UNP P56427
J	123	PHE	-	expression tag	UNP P56427
J	124	THR	-	expression tag	UNP P56427
K	119	GLY	-	expression tag	UNP P56427
K	120	ILE	-	expression tag	UNP P56427
K	121	ASP	-	expression tag	UNP P56427
K	122	PRO	-	expression tag	UNP P56427
K	123	PHE	-	expression tag	UNP P56427
K	124	THR	-	expression tag	UNP P56427
L	119	GLY	-	expression tag	UNP P56427
L	120	ILE	-	expression tag	UNP P56427
L	121	ASP	-	expression tag	UNP P56427
L	122	PRO	-	expression tag	UNP P56427
L	123	PHE	-	expression tag	UNP P56427
L	124	THR	-	expression tag	UNP P56427

- Molecule 2 is NICKEL (II) ION (CCD ID: NI) (formula: Ni).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	G	1	Total Ni 1 1	0	0
2	K	1	Total Ni 1 1	0	0

- Molecule 3 is CHLORIDE ION (CCD ID: CL) (formula: Cl).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
3	G	2	Total Cl 2 2	0	0
3	K	2	Total Cl 2 2	0	0


- Molecule 4 is water.

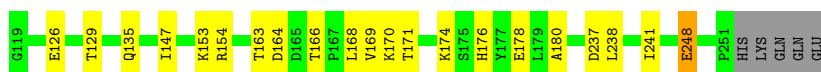
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	B	51	Total O 51 51	0	0
4	C	35	Total O 35 35	0	0
4	D	54	Total O 54 54	0	0
4	E	40	Total O 40 40	0	0
4	A	19	Total O 19 19	0	0
4	F	25	Total O 25 25	0	0
4	G	39	Total O 39 39	0	0
4	H	42	Total O 42 42	0	0
4	I	20	Total O 20 20	0	0
4	J	22	Total O 22 22	0	0
4	K	38	Total O 38 38	0	0
4	L	48	Total O 48 48	0	0

3 Residue-property plots

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.

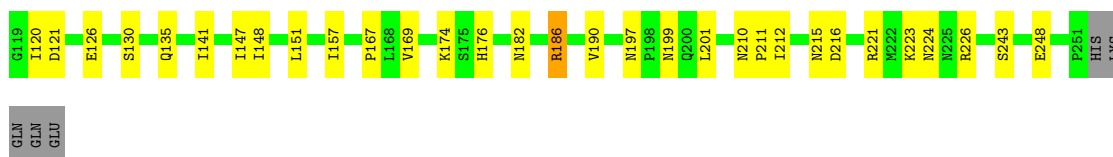
- Molecule 1: Chemotaxis protein motB

Chain B:  81% 14% ..



- Molecule 1: Chemotaxis protein motB

Chain C:  74% 22% ..



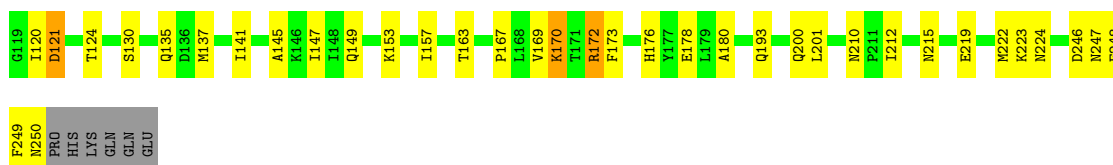
- Molecule 1: Chemotaxis protein motB

Chain D:  72% 21% ..



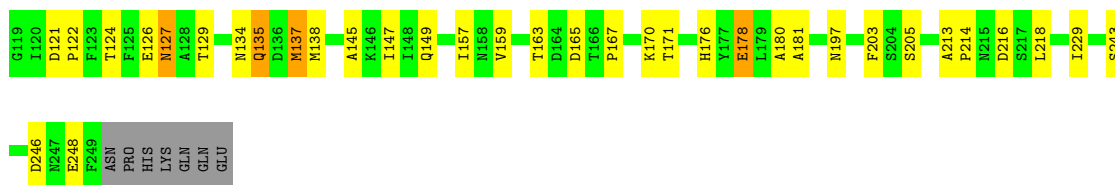
- Molecule 1: Chemotaxis protein motB

Chain E:  70% 24% ..




- Molecule 1: Chemotaxis protein motB

Chain A:  70% 22% 5%



• Molecule 1: Chemotaxis protein motB

Chain F:  79% 15%



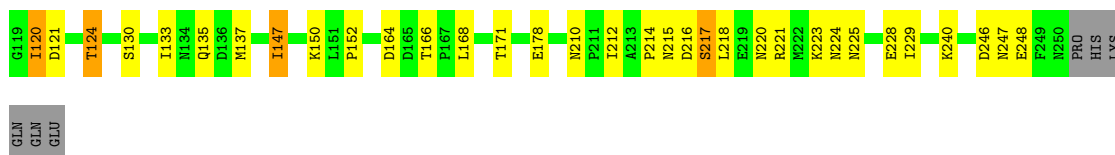
• Molecule 1: Chemotaxis protein motB

Chain G:  75% 17%



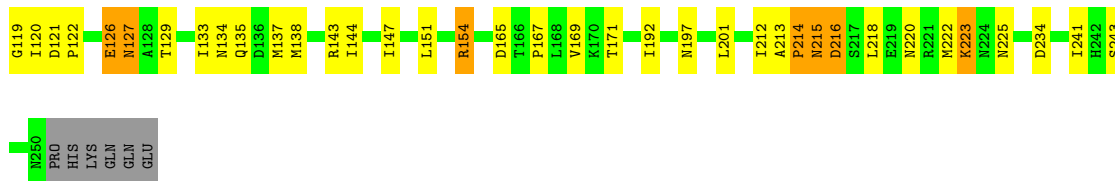
• Molecule 1: Chemotaxis protein motB

Chain H:  72% 21%



• Molecule 1: Chemotaxis protein motB

Chain I:  69% 22% 5%




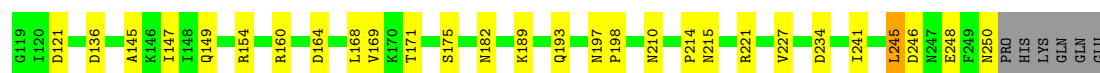
• Molecule 1: Chemotaxis protein motB

Chain J:  76% 17%



• Molecule 1: Chemotaxis protein motB

Chain K:  75% 20%



• Molecule 1: Chemotaxis protein motB

Chain L:  64% 28%



4 Data and refinement statistics i

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	107.56Å 100.34Å 108.49Å 90.00° 119.51° 90.00°	Depositor
Resolution (Å)	15.00 – 2.50 15.00 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.5 (15.00-2.50) 99.0 (15.00-2.50)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.40 (at 2.51Å)	Xtriage
Refinement program	REFMAC 5.2.0019	Depositor
R, R_{free}	0.186 , 0.249 0.184 , 0.244	Depositor DCC
R_{free} test set	3498 reflections (5.06%)	wwPDB-VP
Wilson B-factor (Å ²)	42.8	Xtriage
Anisotropy	0.100	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.33 , 30.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.46$, $\langle L^2 \rangle = 0.29$	Xtriage
Estimated twinning fraction	0.038 for -h-l,k,h 0.038 for l,k,-h-l 0.429 for h,-k,-h-l 0.026 for -h-l,-k,l 0.060 for l,-k,h	Xtriage
F_o, F_c correlation	0.96	EDS
Total number of atoms	13220	wwPDB-VP
Average B, all atoms (Å ²)	51.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 10.11% 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: NI, CL

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	0.93	4/1077 (0.4%)	1.01	2/1457 (0.1%)
1	B	0.85	0/1093	0.97	2/1480 (0.1%)
1	C	0.82	0/1093	1.04	1/1480 (0.1%)
1	D	0.89	0/1085	0.98	0/1468
1	E	0.82	0/1085	0.98	2/1468 (0.1%)
1	F	0.76	0/1093	0.90	0/1480
1	G	0.86	0/1078	0.99	0/1457
1	H	0.80	0/1085	1.06	5/1468 (0.3%)
1	I	1.01	8/1085 (0.7%)	0.96	0/1468
1	J	0.71	0/1085	0.93	1/1468 (0.1%)
1	K	0.87	1/1078 (0.1%)	1.02	3/1457 (0.2%)
1	L	0.82	0/1085	1.02	1/1468 (0.1%)
All	All	0.85	13/13022 (0.1%)	0.99	17/17619 (0.1%)

The worst 5 of 13 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	216	ASP	CG-OD2	11.75	1.47	1.25
1	K	210	ASN	C-O	-8.03	1.20	1.23
1	A	214	PRO	C-N	7.50	1.44	1.33
1	I	216	ASP	CG-OD1	7.29	1.39	1.25
1	A	214	PRO	C-O	7.22	1.32	1.23

The worst 5 of 17 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	H	210	ASN	CA-C-N	-6.86	113.24	120.03
1	H	210	ASN	C-N-CA	-6.86	113.24	120.03
1	C	169	VAL	N-CA-C	6.78	117.48	110.36
1	B	166	THR	CA-C-N	6.46	126.49	119.90
1	B	166	THR	C-N-CA	6.46	126.49	119.90

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1056	0	1039	23	0
1	B	1071	0	1052	15	0
1	C	1071	0	1052	21	0
1	D	1064	0	1045	18	0
1	E	1064	0	1045	22	0
1	F	1071	0	1052	17	0
1	G	1064	0	1044	19	0
1	H	1064	0	1045	15	0
1	I	1064	0	1045	22	0
1	J	1064	0	1045	21	0
1	K	1064	0	1044	16	0
1	L	1064	0	1045	32	0
2	G	1	0	0	0	0
2	K	1	0	0	0	0
3	G	2	0	0	0	0
3	K	2	0	0	2	0
4	A	19	0	0	3	0
4	B	51	0	0	4	0
4	C	35	0	0	3	0
4	D	54	0	0	1	0
4	E	40	0	0	2	0
4	F	25	0	0	0	0
4	G	39	0	0	1	0
4	H	42	0	0	2	0
4	I	20	0	0	0	0
4	J	22	0	0	1	0
4	K	38	0	0	1	0
4	L	48	0	0	4	0
All	All	13220	0	12553	226	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 9.

The worst 5 of 226 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:L:147:ILE:HD11	1:L:248:GLU:HG2	1.28	1.09
1:J:133:ILE:HG23	1:J:137:MET:HE2	1.36	1.04
1:H:147:ILE:HD11	1:H:248:GLU:HG2	1.38	1.02
1:A:147:ILE:HD11	1:A:248:GLU:HG2	1.41	1.01
1:C:176:HIS:HE1	1:A:218:LEU:HD23	1.28	0.97

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	129/138 (94%)	117 (91%)	9 (7%)	3 (2%)	5 8
1	B	131/138 (95%)	125 (95%)	6 (5%)	0	100 100
1	C	131/138 (95%)	128 (98%)	3 (2%)	0	100 100
1	D	130/138 (94%)	124 (95%)	5 (4%)	1 (1%)	16 31
1	E	130/138 (94%)	128 (98%)	1 (1%)	1 (1%)	16 31
1	F	131/138 (95%)	128 (98%)	2 (2%)	1 (1%)	16 31
1	G	130/138 (94%)	127 (98%)	2 (2%)	1 (1%)	16 31
1	H	130/138 (94%)	125 (96%)	1 (1%)	4 (3%)	3 5
1	I	130/138 (94%)	118 (91%)	11 (8%)	1 (1%)	16 31
1	J	130/138 (94%)	127 (98%)	3 (2%)	0	100 100
1	K	130/138 (94%)	129 (99%)	1 (1%)	0	100 100
1	L	130/138 (94%)	121 (93%)	9 (7%)	0	100 100
All	All	1562/1656 (94%)	1497 (96%)	53 (3%)	12 (1%)	16 31

5 of 12 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	216	ASP
1	G	169	VAL
1	I	126	GLU
1	H	247	ASN
1	E	170	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 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	118/126 (94%)	112 (95%)	6 (5%)	21	43
1	B	120/126 (95%)	117 (98%)	3 (2%)	42	69
1	C	120/126 (95%)	113 (94%)	7 (6%)	18	38
1	D	119/126 (94%)	110 (92%)	9 (8%)	12	26
1	E	119/126 (94%)	111 (93%)	8 (7%)	15	31
1	F	120/126 (95%)	113 (94%)	7 (6%)	18	38
1	G	118/126 (94%)	110 (93%)	8 (7%)	14	31
1	H	119/126 (94%)	107 (90%)	12 (10%)	7	15
1	I	119/126 (94%)	112 (94%)	7 (6%)	18	37
1	J	119/126 (94%)	115 (97%)	4 (3%)	32	60
1	K	118/126 (94%)	110 (93%)	8 (7%)	14	31
1	L	119/126 (94%)	108 (91%)	11 (9%)	8	19
All	All	1428/1512 (94%)	1338 (94%)	90 (6%)	16	34

5 of 90 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	H	223	LYS
1	K	136	ASP
1	H	246	ASP
1	I	223	LYS
1	K	189	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 42 such sidechains are listed below:

Mol	Chain	Res	Type
1	I	199	ASN
1	K	199	ASN
1	I	236	ASN
1	J	220	ASN
1	L	199	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 6 ligands modelled in this entry, 6 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

There are no chain breaks in this entry.

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	131/138 (94%)	-1.17	0 100 100	39, 69, 106, 122	0
1	B	133/138 (96%)	-1.53	0 100 100	18, 40, 68, 98	0
1	C	133/138 (96%)	-1.50	0 100 100	22, 43, 72, 107	0
1	D	132/138 (95%)	-1.53	0 100 100	20, 40, 68, 84	0
1	E	132/138 (95%)	-1.54	0 100 100	24, 45, 71, 95	0
1	F	133/138 (96%)	-1.39	0 100 100	31, 59, 89, 123	0
1	G	132/138 (95%)	-1.48	0 100 100	22, 45, 72, 92	0
1	H	132/138 (95%)	-1.43	0 100 100	22, 44, 70, 107	0
1	I	132/138 (95%)	-1.07	0 100 100	36, 70, 111, 124	0
1	J	132/138 (95%)	-1.36	0 100 100	30, 60, 88, 110	0
1	K	132/138 (95%)	-1.49	0 100 100	23, 44, 71, 96	0
1	L	132/138 (95%)	-1.50	0 100 100	24, 44, 70, 102	0
All	All	1586/1656 (95%)	-1.42	0 100 100	18, 49, 91, 124	0

There are no RSRZ outliers to report.

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(Å ²)	Q<0.9
2	NI	G	1	1/1	0.99	0.03	39,39,39,39	0
2	NI	K	2	1/1	0.99	0.02	37,37,37,37	0
3	CL	G	71	1/1	0.99	0.05	56,56,56,56	0
3	CL	G	83	1/1	0.99	0.04	52,52,52,52	0
3	CL	K	12	1/1	0.99	0.04	54,54,54,54	0
3	CL	K	95	1/1	1.00	0.04	53,53,53,53	0

6.5 Other polymers [i](#)

There are no such residues in this entry.