



# Full wwPDB X-ray Structure Validation Report ⓘ

Nov 12, 2024 – 10:13 AM EST

PDB ID : 3I3U  
Title : Crystal structure of lp\_1913 protein from lactobacillus plantarum, northeast structural genomics Consortium target lpr140a  
Authors : Seetharaman, J.; Chen, Y.; Forouhar, F.; Sahdev, S.; Janjua, H.; Xiao, R.; Ciccocanti, C.; Foote, E.L.; Acton, T.B.; Rost, B.; Montelione, G.T.; Hunt, J.F.; Tong, L.; Northeast Structural Genomics Consortium (NESG)  
Deposited on : 2009-06-30  
Resolution : 2.80 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

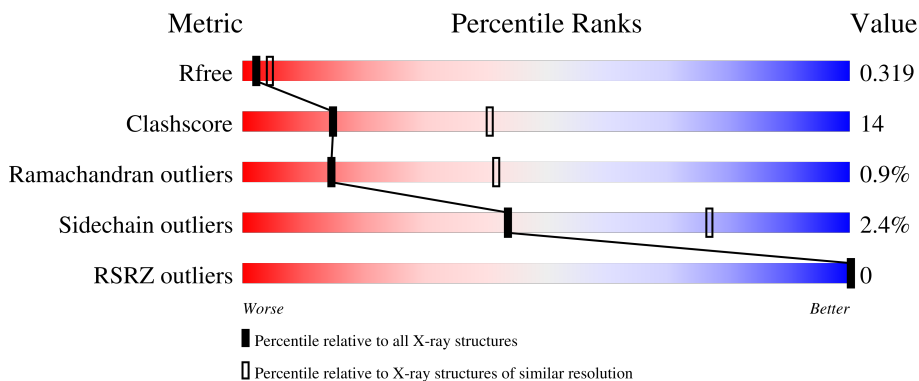
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 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	3657 (2.80-2.80)
Clashscore	180529	4123 (2.80-2.80)
Ramachandran outliers	177936	4071 (2.80-2.80)
Sidechain outliers	177891	4073 (2.80-2.80)
RSRZ outliers	164620	3659 (2.80-2.80)

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  $\geq 3$ , 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	112	
1	B	112	
1	C	112	
1	D	112	

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Mol	Chain	Length	Quality of chain
1	E	112	 52% 19% 27%
1	F	112	 54% 22% 23%

## 2 Entry composition [i](#)

There are 2 unique types of molecules in this entry. The entry contains 3970 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 uncharacterized protein lp\_1913.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	Se			
1	A	82	629	408	100	119	2	0	0	0
1	B	86	666	433	105	126	2	0	0	0
1	C	84	655	427	104	122	2	0	0	0
1	D	87	670	437	106	125	2	0	0	0
1	E	82	635	416	97	120	2	0	0	0
1	F	86	665	432	105	126	2	0	0	0

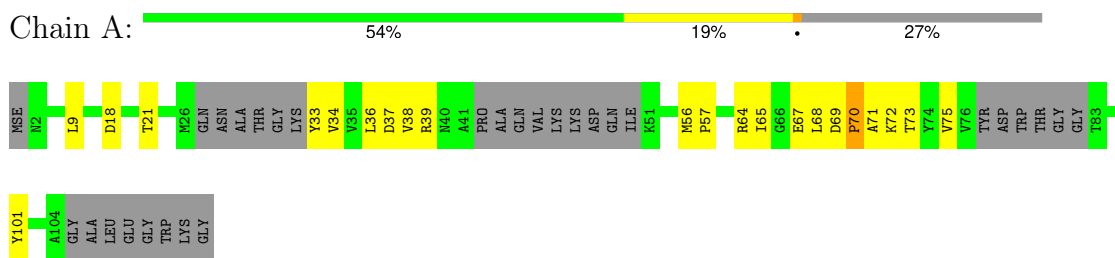
- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	7	Total 7	O 7	0	0
2	B	9	Total 9	O 9	0	0
2	C	10	Total 10	O 10	0	0
2	D	9	Total 9	O 9	0	0
2	E	8	Total 8	O 8	0	0
2	F	7	Total 7	O 7	0	0

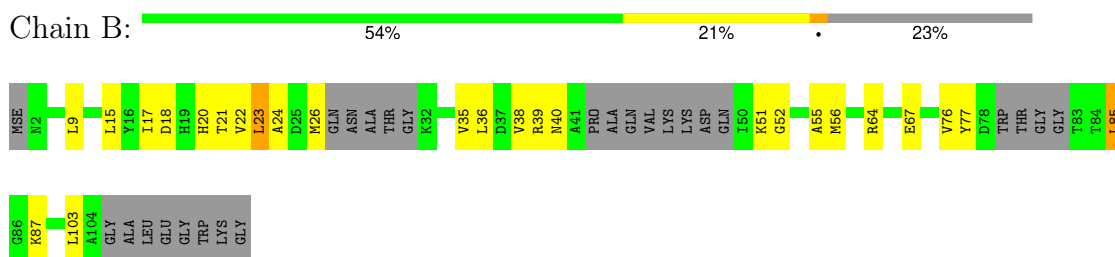
### 3 Residue-property plots [i](#)

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 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.

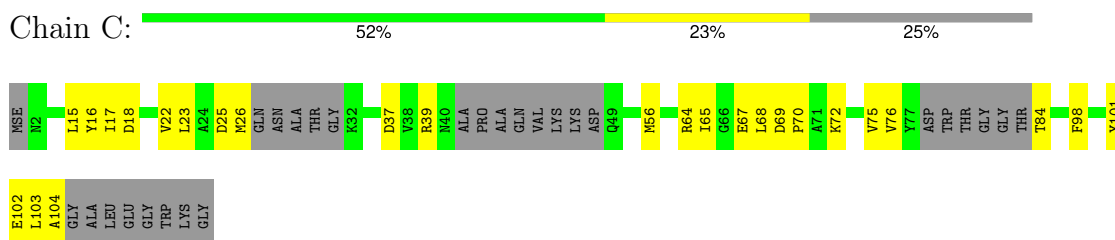
- Molecule 1: uncharacterized protein lp\_1913



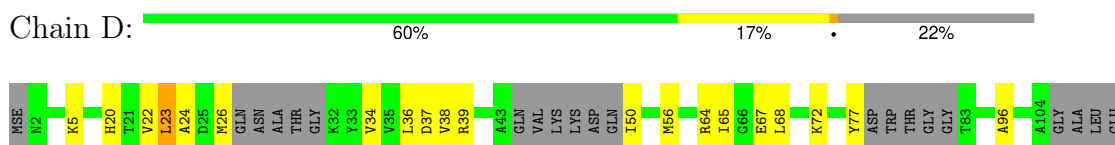
- Molecule 1: uncharacterized protein lp\_1913



- Molecule 1: uncharacterized protein lp\_1913



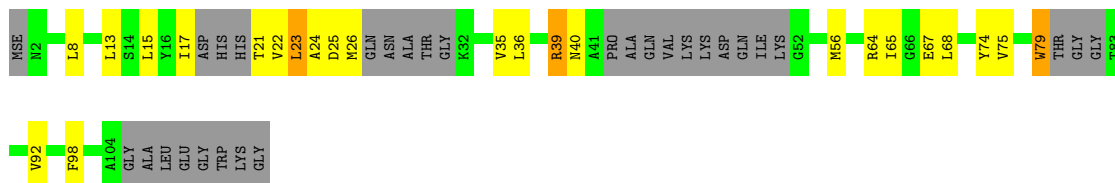
- Molecule 1: uncharacterized protein lp\_1913



GLY  
TRP  
LYS  
GLY

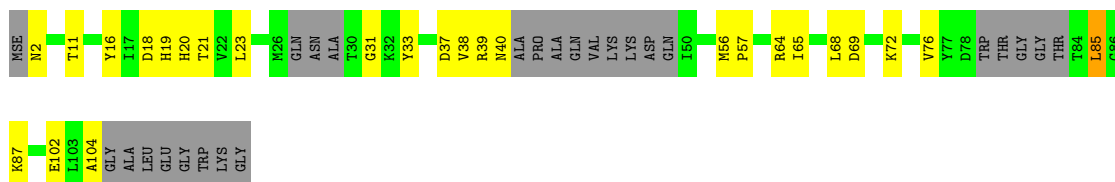
- Molecule 1: uncharacterized protein lp\_1913

Chain E:  52% 19% 0% 27%



- Molecule 1: uncharacterized protein lp\_1913

Chain F:  54% 22% 0% 23%



## 4 Data and refinement statistics i

Property	Value	Source
Space group	P 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	43.71Å 60.29Å 60.32Å 120.04° 89.96° 90.03°	Depositor
Resolution (Å)	26.12 – 2.80 26.12 – 2.80	Depositor EDS
% Data completeness (in resolution range)	94.5 (26.12-2.80) 97.3 (26.12-2.80)	Depositor EDS
$R_{merge}$	0.04	Depositor
$R_{sym}$	0.04	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.83 (at 2.39Å)	Xtrriage
Refinement program	CNS 1.2	Depositor
R, $R_{free}$	0.264 , 0.291 0.273 , 0.319	Depositor DCC
$R_{free}$ test set	624 reflections (4.44%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	39.7	Xtrriage
Anisotropy	0.219	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.34 , 85.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.32$	Xtrriage
Estimated twinning fraction	0.467 for h,k+1,-k 0.467 for h,-1,k+1 0.457 for h,l,-k-l 0.457 for h,-k-l,k 0.457 for h,-k,-l 0.056 for -h,l,k 0.059 for -h,k,-k-l 0.057 for -h,-k-l,l 0.059 for -h,k+1,-l 0.063 for -h,-l,-k 0.057 for -h,-k,k+1	Xtrriage
$F_o, F_c$ correlation	0.98	EDS
Total number of atoms	3970	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	49.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 6.97% 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](#)

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	0.42	0/633	0.62	0/853
1	B	0.39	0/671	0.61	0/904
1	C	0.41	0/660	0.63	0/888
1	D	0.39	0/676	0.60	0/912
1	E	0.44	0/639	0.61	0/861
1	F	0.40	0/670	0.62	0/902
All	All	0.41	0/3949	0.62	0/5320

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	629	0	654	16	0
1	B	666	0	691	23	0
1	C	655	0	683	20	0
1	D	670	0	699	15	0
1	E	635	0	658	24	0
1	F	665	0	689	16	0
2	A	7	0	0	0	0
2	B	9	0	0	0	0
2	C	10	0	0	1	0
2	D	9	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	E	8	0	0	1	0
2	F	7	0	0	1	0
All	All	3970	0	4074	109	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 14.

All (109) 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:D:34:VAL:HG21	1:D:72:LYS:HD3	1.48	0.93
1:C:37:ASP:OD1	1:C:39:ARG:HG2	1.79	0.82
1:D:36:LEU:HD13	1:D:56:MSE:HG2	1.70	0.74
1:D:37:ASP:OD1	1:D:39:ARG:HD3	1.87	0.74
1:A:64:ARG:HB3	1:A:67:GLU:OE2	1.90	0.71
1:F:37:ASP:OD1	1:F:39:ARG:HG2	1.91	0.71
1:E:36:LEU:HD13	1:E:56:MSE:HE3	1.75	0.68
1:B:36:LEU:HB2	1:B:76:VAL:HG12	1.77	0.67
1:B:36:LEU:HD22	1:B:56:MSE:HE2	1.76	0.66
1:A:34:VAL:HG21	1:A:72:LYS:HD3	1.78	0.65
1:B:36:LEU:HD22	1:B:56:MSE:CE	2.26	0.64
1:D:56:MSE:HE3	1:D:68:LEU:HD21	1.79	0.63
1:E:36:LEU:HD22	1:E:56:MSE:HE2	1.81	0.63
1:B:36:LEU:HD13	1:B:56:MSE:HE3	1.82	0.61
1:D:64:ARG:HB3	1:D:67:GLU:OE2	2.01	0.60
1:F:38:VAL:O	1:F:85:LEU:HD21	2.02	0.60
1:E:23:LEU:HD23	1:E:24:ALA:H	1.67	0.59
1:E:22:VAL:HG21	1:E:75:VAL:HG21	1.85	0.59
1:B:20:HIS:O	1:B:23:LEU:HB3	2.05	0.57
1:A:56:MSE:HE3	1:A:68:LEU:HD21	1.87	0.56
1:A:36:LEU:HD22	1:A:56:MSE:HB2	1.86	0.56
1:B:51:LYS:HG2	1:B:52:GLY:N	2.21	0.56
1:D:22:VAL:HG12	1:D:26:MSE:HE2	1.86	0.56
1:C:69:ASP:OD2	1:C:72:LYS:HG2	2.06	0.55
1:C:76:VAL:CG2	1:C:102:GLU:HA	2.36	0.55
1:D:23:LEU:HA	1:D:26:MSE:HE3	1.89	0.55
1:E:36:LEU:HD22	1:E:56:MSE:CE	2.36	0.55
1:E:17:ILE:HG12	1:E:22:VAL:HG23	1.87	0.55
1:C:56:MSE:HE2	1:C:64:ARG:CZ	2.36	0.55
1:E:21:THR:N	1:E:23:LEU:CD2	2.70	0.54
1:C:16:TYR:HB3	1:C:104:ALA:HB2	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:9:LEU:HD21	1:C:15:LEU:HD13	1.89	0.54
1:E:68:LEU:HD22	1:E:74:TYR:CE1	2.43	0.53
1:F:40:ASN:OD1	1:F:57:PRO:HB3	2.08	0.53
1:C:65:ILE:HD12	1:C:68:LEU:HD12	1.90	0.53
1:D:65:ILE:HD11	1:D:96:ALA:HB1	1.89	0.53
1:F:19:HIS:O	1:F:23:LEU:HD23	2.09	0.53
1:B:20:HIS:C	1:B:23:LEU:HB3	2.29	0.53
1:D:34:VAL:CG2	1:D:72:LYS:HD3	2.32	0.52
1:C:64:ARG:HB3	1:C:67:GLU:OE2	2.11	0.51
1:E:22:VAL:CG2	1:E:75:VAL:HG21	2.41	0.51
1:E:65:ILE:HD12	1:E:92:VAL:HG12	1.92	0.51
1:B:17:ILE:CD1	1:B:22:VAL:HG22	2.41	0.50
1:C:68:LEU:O	1:C:70:PRO:HD3	2.11	0.50
1:D:20:HIS:O	1:D:24:ALA:HB2	2.12	0.50
1:E:64:ARG:O	1:E:67:GLU:HG2	2.11	0.50
1:C:25:ASP:HA	2:C:121:HOH:O	2.11	0.50
1:B:38:VAL:O	1:B:85:LEU:HD12	2.12	0.49
1:A:34:VAL:CG2	1:A:72:LYS:HD3	2.42	0.49
1:F:16:TYR:HB3	1:F:104:ALA:HB2	1.95	0.49
1:F:65:ILE:HD12	1:F:68:LEU:HD12	1.94	0.49
1:F:65:ILE:HD12	1:F:68:LEU:CD1	2.42	0.49
1:E:23:LEU:HD23	1:E:24:ALA:N	2.28	0.49
1:A:36:LEU:HD22	1:A:56:MSE:CB	2.43	0.48
1:F:56:MSE:HG3	1:F:64:ARG:CZ	2.42	0.48
1:A:65:ILE:HG13	1:A:68:LEU:HD12	1.96	0.48
1:C:76:VAL:HG22	1:C:102:GLU:HA	1.96	0.48
1:B:23:LEU:HD23	1:B:24:ALA:N	2.29	0.48
1:C:18:ASP:O	1:C:22:VAL:HG23	2.14	0.47
1:A:57:PRO:HD2	1:A:64:ARG:NH1	2.30	0.47
1:C:17:ILE:HB	1:C:101:TYR:HB3	1.97	0.47
1:B:20:HIS:O	1:B:23:LEU:HD22	2.15	0.47
1:B:36:LEU:HD13	1:B:56:MSE:CE	2.45	0.47
1:E:13:LEU:HD21	1:F:87:LYS:HB2	1.97	0.46
1:E:65:ILE:HG12	1:E:98:PHE:HE2	1.80	0.46
1:F:69:ASP:OD2	1:F:72:LYS:HG2	2.15	0.46
1:C:23:LEU:HD13	1:C:26:MSE:SE	2.66	0.46
1:D:50:ILE:HD12	1:D:77:TYR:CE2	2.51	0.46
1:F:76:VAL:HG23	1:F:102:GLU:HA	1.97	0.46
1:E:22:VAL:HG12	1:E:26:MSE:HE3	1.98	0.45
1:A:68:LEU:O	1:A:70:PRO:HD3	2.17	0.45
1:B:64:ARG:O	1:B:67:GLU:HG2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:21:THR:HG22	1:F:33:TYR:HE2	1.82	0.45
1:A:18:ASP:HB3	1:A:21:THR:OG1	2.17	0.45
1:B:35:VAL:O	1:B:36:LEU:HD23	2.17	0.45
1:C:56:MSE:HG3	1:C:64:ARG:NH1	2.32	0.45
1:C:65:ILE:HG13	1:C:65:ILE:O	2.16	0.45
1:D:5:LYS:HD3	1:E:15:LEU:HD23	2.00	0.44
1:E:21:THR:N	1:E:23:LEU:HD22	2.31	0.44
1:B:18:ASP:HB3	1:B:21:THR:OG1	2.17	0.44
1:B:22:VAL:HB	1:B:26:MSE:HE3	2.00	0.44
1:D:37:ASP:OD2	1:D:39:ARG:NH1	2.51	0.44
1:E:23:LEU:CD2	1:E:23:LEU:H	2.30	0.44
1:D:22:VAL:HG12	1:D:26:MSE:CE	2.48	0.44
1:E:8:LEU:HD23	1:F:11:THR:HG22	2.00	0.44
1:E:39:ARG:HD3	1:E:79:TRP:HB3	2.00	0.44
1:A:75:VAL:HA	1:A:101:TYR:O	2.18	0.44
1:B:22:VAL:O	1:B:26:MSE:HG2	2.18	0.44
1:A:33:TYR:HA	1:A:73:THR:O	2.18	0.43
1:B:77:TYR:HB3	1:B:103:LEU:HB3	2.00	0.43
1:A:38:VAL:HG12	1:A:56:MSE:O	2.19	0.43
1:C:76:VAL:HG23	1:C:102:GLU:HA	2.01	0.42
1:E:25:ASP:HA	2:E:114:HOH:O	2.20	0.42
1:B:23:LEU:HD23	1:B:23:LEU:C	2.40	0.42
1:C:68:LEU:HB2	1:C:98:PHE:CZ	2.54	0.42
1:D:36:LEU:O	1:D:38:VAL:HG13	2.19	0.42
1:A:69:ASP:C	1:A:71:ALA:H	2.23	0.42
1:F:18:ASP:OD1	1:F:20:HIS:HB3	2.20	0.42
1:A:9:LEU:HD11	1:B:15:LEU:HD22	2.02	0.41
1:C:75:VAL:HG12	1:C:103:LEU:HB2	2.03	0.41
1:E:36:LEU:HD13	1:E:56:MSE:CE	2.45	0.41
1:B:55:ALA:O	1:B:56:MSE:HB2	2.21	0.41
1:C:23:LEU:HA	1:C:26:MSE:HG3	2.01	0.41
1:E:35:VAL:HG12	1:E:36:LEU:N	2.36	0.40
1:F:21:THR:HG22	1:F:33:TYR:CE2	2.57	0.40
1:A:37:ASP:OD1	1:A:39:ARG:HD3	2.22	0.40
1:B:17:ILE:O	1:B:17:ILE:HG23	2.21	0.40
1:E:22:VAL:O	1:E:26:MSE:HG2	2.21	0.40
1:F:2:ASN:HB2	2:F:118:HOH:O	2.21	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	74/112 (66%)	67 (90%)	6 (8%)	1 (1%)	9	30
1	B	78/112 (70%)	71 (91%)	6 (8%)	1 (1%)	10	32
1	C	76/112 (68%)	74 (97%)	2 (3%)	0	100	100
1	D	79/112 (70%)	73 (92%)	6 (8%)	0	100	100
1	E	72/112 (64%)	65 (90%)	6 (8%)	1 (1%)	9	30
1	F	78/112 (70%)	75 (96%)	2 (3%)	1 (1%)	10	32
All	All	457/672 (68%)	425 (93%)	28 (6%)	4 (1%)	14	42

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	F	31	GLY
1	B	39	ARG
1	A	70	PRO
1	E	39	ARG

### 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	67/85 (79%)	67 (100%)	0	100	100
1	B	71/85 (84%)	67 (94%)	4 (6%)	17	47
1	C	70/85 (82%)	69 (99%)	1 (1%)	62	87

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	71/85 (84%)	70 (99%)	1 (1%)	62	87
1	E	67/85 (79%)	64 (96%)	3 (4%)	23	55
1	F	71/85 (84%)	70 (99%)	1 (1%)	62	87
All	All	417/510 (82%)	407 (98%)	10 (2%)	44	77

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	B	23	LEU
1	B	40	ASN
1	B	85	LEU
1	B	87	LYS
1	C	84	THR
1	D	23	LEU
1	E	23	LEU
1	E	40	ASN
1	E	79	TRP
1	F	85	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	B	2	ASN
1	C	2	ASN
1	C	49	GLN
1	F	2	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](#)

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 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, 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	80/112 (71%)	-1.63	0 100 100	20, 48, 68, 71	0
1	B	84/112 (75%)	-1.53	0 100 100	24, 50, 75, 79	0
1	C	82/112 (73%)	-1.59	0 100 100	20, 49, 72, 74	0
1	D	85/112 (75%)	-1.53	0 100 100	22, 49, 64, 68	0
1	E	80/112 (71%)	-1.58	0 100 100	23, 48, 69, 78	0
1	F	84/112 (75%)	-1.65	0 100 100	22, 50, 72, 76	0
All	All	495/672 (73%)	-1.58	0 100 100	20, 50, 71, 79	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 monosaccharides in this entry.

### 6.4 Ligands [i](#)

There are no ligands in this entry.

### 6.5 Other polymers [i](#)

There are no such residues in this entry.