



# Full wwPDB X-ray Structure Validation Report ⓘ

Feb 15, 2017 – 12:48 am GMT

PDB ID : 4U1D  
Title : Structure of the PCI domain of translation initiation factor eIF3a  
Authors : Erzberger, J.P.; Schaefer, T.; Ban, N.  
Deposited on : 2014-07-15  
Resolution : 3.30 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

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

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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  
Xtriage (Phenix) : 1.9-1692  
EDS : trunk28620  
Percentile statistics : 20161228.v01 (using entries in the PDB archive December 28th 2016)  
Refmac : 5.8.0135  
CCP4 : 6.5.0  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : recalc28949

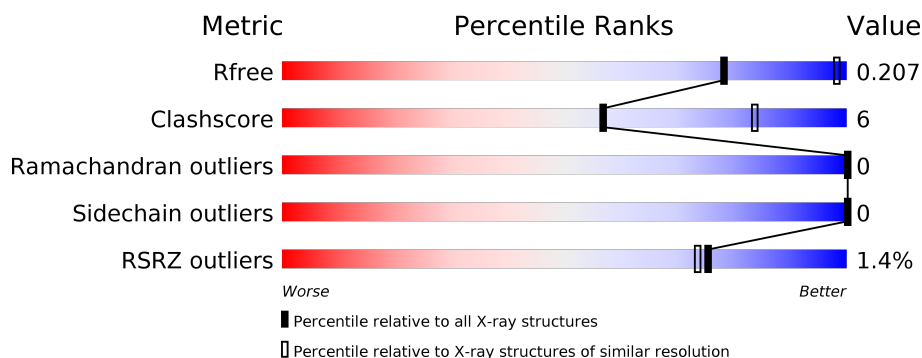
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.30 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))
$R_{free}$	100719	1034 (3.36-3.24)
Clashscore	112137	1100 (3.36-3.24)
Ramachandran outliers	110173	1081 (3.36-3.24)
Sidechain outliers	110143	1080 (3.36-3.24)
RSRZ outliers	101464	1039 (3.36-3.24)

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 on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. 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	497	<div> <div>2%</div> <div> <div></div> <div>79%</div> <div>13%</div> <div>8%</div> </div> </div>
1	B	497	<div> <div></div> <div> <div>77%</div> <div>13%</div> <div>10%</div> </div> </div>
1	C	497	<div> <div>%</div> <div> <div></div> <div>74%</div> <div>15%</div> <div>11%</div> </div> </div>

## 2 Entry composition

There is only 1 type of molecule in this entry. The entry contains 11013 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 Eukaryotic translation initiation factor 3 subunit A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	C	444	Total	C	N	O	S	0	0	0
			3617	2327	607	676	7			
1	B	449	Total	C	N	O	S	0	0	0
			3656	2350	616	683	7			
1	A	459	Total	C	N	O	S	0	0	0
			3740	2400	630	703	7			

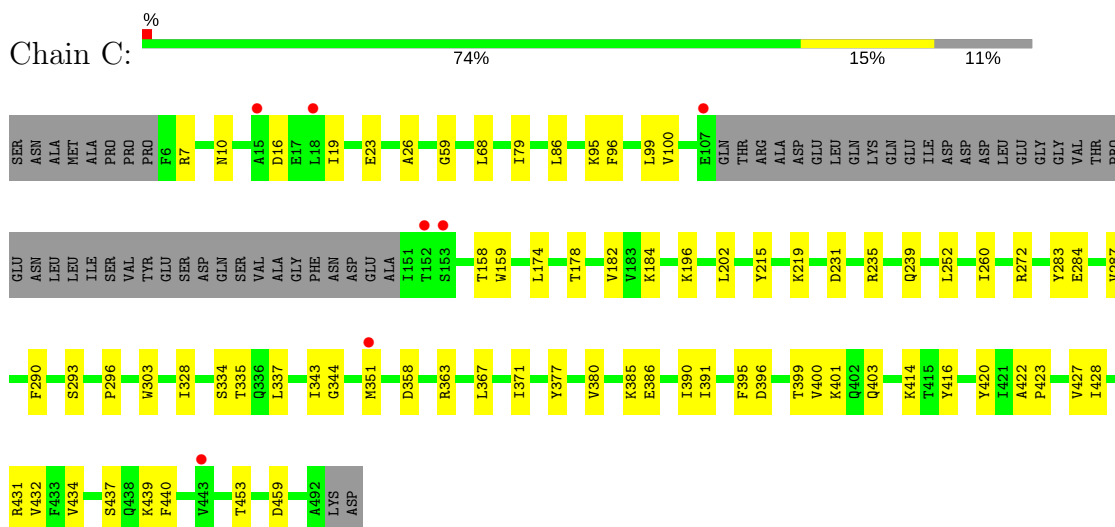
There are 9 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-2	SER	-	expression tag	UNP P38249
C	-1	ASN	-	expression tag	UNP P38249
C	0	ALA	-	expression tag	UNP P38249
B	-2	SER	-	expression tag	UNP P38249
B	-1	ASN	-	expression tag	UNP P38249
B	0	ALA	-	expression tag	UNP P38249
A	-2	SER	-	expression tag	UNP P38249
A	-1	ASN	-	expression tag	UNP P38249
A	0	ALA	-	expression tag	UNP P38249

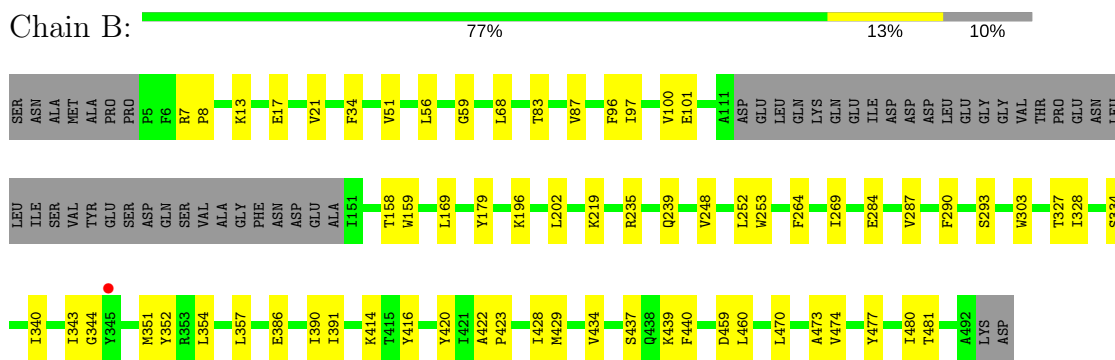
### 3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA 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.

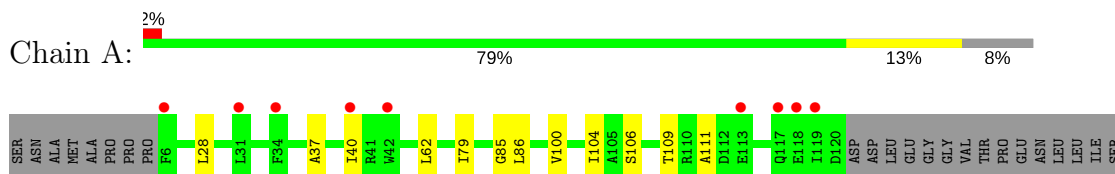
- Molecule 1: Eukaryotic translation initiation factor 3 subunit A

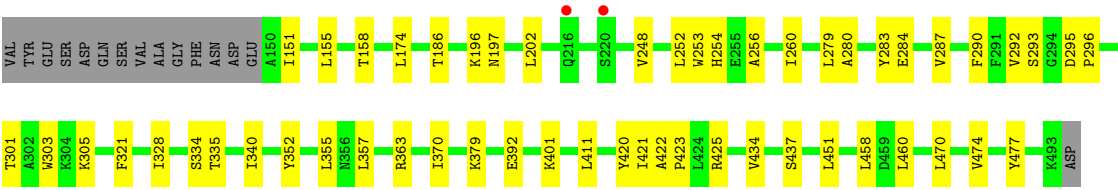


- Molecule 1: Eukaryotic translation initiation factor 3 subunit A



- Molecule 1: Eukaryotic translation initiation factor 3 subunit A





## 4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	242.53Å 158.27Å 93.74Å 90.00° 104.21° 90.00°	Depositor
Resolution (Å)	39.57 – 3.30 39.57 – 3.29	Depositor EDS
% Data completeness (in resolution range)	94.2 (39.57-3.30) 94.3 (39.57-3.29)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.88 (at 3.32Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.1_1168)	Depositor
R, $R_{free}$	0.170 , 0.204 0.175 , 0.207	Depositor DCC
$R_{free}$ test set	2444 reflections (5.01%)	DCC
Wilson B-factor (Å <sup>2</sup> )	112.5	Xtriage
Anisotropy	0.357	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.32 , 82.3	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.47$ , $\langle L^2 \rangle = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
$F_o, F_c$ correlation	0.95	EDS
Total number of atoms	11013	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	118.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.26% 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	0.30	0/3812	0.49	0/5151
1	B	0.32	0/3729	0.51	0/5041
1	C	0.29	0/3689	0.47	0/4987
All	All	0.30	0/11230	0.49	0/15179

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	3740	0	3792	42	0
1	B	3656	0	3711	43	0
1	C	3617	0	3670	46	0
All	All	11013	0	11173	127	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 6.

All (127) 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:104:ILE:HG12	1:A:158:THR:HG21	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:334:SER:OG	1:B:423:PRO:HB2	2.00	0.62
1:A:293:SER:OG	1:A:295:ASP:OD2	2.19	0.59
1:C:399:THR:O	1:C:403:GLN:HG2	2.02	0.58
1:A:334:SER:OG	1:A:423:PRO:HB2	2.03	0.58
1:A:290:PHE:HA	1:A:293:SER:HB3	1.85	0.57
1:C:334:SER:OG	1:C:423:PRO:HB2	2.04	0.57
1:C:380:VAL:O	1:C:385:LYS:NZ	2.37	0.57
1:C:86:LEU:HD12	1:C:174:LEU:HD12	1.87	0.56
1:B:303:TRP:HB3	1:B:328:ILE:HG12	1.89	0.55
1:B:96:PHE:O	1:B:100:VAL:HG12	2.07	0.55
1:B:235:ARG:O	1:B:239:GLN:HG3	2.07	0.55
1:A:100:VAL:HB	1:A:158:THR:HG22	1.89	0.54
1:C:235:ARG:O	1:C:239:GLN:HG3	2.07	0.54
1:A:151:ILE:H	1:A:151:ILE:HD12	1.74	0.53
1:A:434:VAL:O	1:A:437:SER:HB3	2.09	0.53
1:A:196:LYS:HD3	1:A:252:LEU:HD21	1.91	0.52
1:A:303:TRP:HB3	1:A:328:ILE:HG12	1.91	0.52
1:B:351:MET:HA	1:B:354:LEU:HB2	1.91	0.52
1:C:284:GLU:O	1:C:287:VAL:HG22	2.10	0.52
1:A:363:ARG:NH2	1:A:392:GLU:OE2	2.39	0.52
1:C:16:ASP:O	1:C:19:ILE:HG13	2.11	0.51
1:A:420:TYR:O	1:A:423:PRO:HD2	2.10	0.51
1:A:104:ILE:CG1	1:A:158:THR:HG21	2.40	0.51
1:A:301:THR:HG22	1:A:355:LEU:HD23	1.92	0.51
1:A:86:LEU:HD22	1:A:174:LEU:HD22	1.93	0.51
1:C:303:TRP:HB3	1:C:328:ILE:HG12	1.93	0.51
1:C:363:ARG:HH12	1:C:431:ARG:HH21	1.59	0.50
1:B:290:PHE:HA	1:B:293:SER:HB2	1.94	0.50
1:C:23:GLU:HB3	1:C:26:ALA:HB3	1.92	0.50
1:B:429:MET:SD	1:B:460:LEU:HD12	2.52	0.49
1:B:470:LEU:HD23	1:B:480:ILE:HD11	1.95	0.49
1:B:303:TRP:CZ2	1:B:327:THR:HG21	2.48	0.49
1:C:391:ILE:HD13	1:C:428:ILE:HG12	1.93	0.49
1:B:264:PHE:CG	1:B:354:LEU:HG	2.47	0.49
1:B:34:PHE:CD2	1:B:51:VAL:HG11	2.48	0.49
1:A:111:ALA:HB2	1:A:151:ILE:HG12	1.94	0.48
1:B:169:LEU:HB3	1:B:179:TYR:HB2	1.95	0.48
1:A:422:ALA:HB3	1:A:423:PRO:HD3	1.95	0.48
1:B:264:PHE:CD2	1:B:354:LEU:HG	2.48	0.48
1:B:284:GLU:O	1:B:287:VAL:HG22	2.13	0.48
1:B:269:ILE:HG23	1:A:254:HIS:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:284:GLU:O	1:A:287:VAL:HG22	2.14	0.48
1:C:434:VAL:O	1:C:437:SER:HB3	2.14	0.48
1:B:59:GLY:HA3	1:B:68:LEU:HD21	1.96	0.48
1:B:439:LYS:HD3	1:B:440:PHE:CE2	2.49	0.47
1:B:196:LYS:HD3	1:B:252:LEU:HD21	1.96	0.47
1:C:159:TRP:HH2	1:C:202:LEU:HB2	1.80	0.47
1:C:68:LEU:HD13	1:C:96:PHE:CE1	2.50	0.47
1:A:186:THR:HG22	1:A:202:LEU:HD22	1.97	0.47
1:B:414:LYS:HB3	1:B:416:TYR:CE1	2.50	0.46
1:B:459:ASP:OD1	1:B:459:ASP:N	2.48	0.46
1:C:196:LYS:HD3	1:C:252:LEU:HD21	1.97	0.46
1:C:439:LYS:HD3	1:C:440:PHE:CE2	2.50	0.46
1:B:97:ILE:O	1:B:101:GLU:HB2	2.15	0.46
1:A:106:SER:O	1:A:109:THR:HG22	2.16	0.46
1:A:425:ARG:HD2	1:A:460:LEU:HG	1.97	0.46
1:B:386:GLU:O	1:B:390:ILE:HG12	2.16	0.46
1:C:343:ILE:HB	1:C:344:GLY:HA2	1.98	0.46
1:B:422:ALA:HB3	1:B:423:PRO:HD3	1.97	0.46
1:C:386:GLU:O	1:C:390:ILE:HG12	2.16	0.46
1:C:428:ILE:O	1:C:432:VAL:HG23	2.15	0.46
1:C:219:LYS:HD2	1:B:481:THR:HG23	1.98	0.45
1:C:231:ASP:OD1	1:C:272:ARG:NH1	2.49	0.45
1:C:7:ARG:HB2	1:C:10:ASN:ND2	2.31	0.45
1:C:59:GLY:HA3	1:C:68:LEU:HD21	1.98	0.45
1:B:343:ILE:N	1:B:344:GLY:HA2	2.31	0.45
1:C:380:VAL:HB	1:C:385:LYS:NZ	2.32	0.45
1:A:401:LYS:NZ	1:A:451:LEU:HD12	2.32	0.45
1:A:470:LEU:O	1:A:474:VAL:HG23	2.17	0.45
1:A:256:ALA:O	1:A:260:ILE:HG13	2.18	0.44
1:C:422:ALA:HB3	1:C:423:PRO:HD3	1.99	0.44
1:C:396:ASP:O	1:C:400:VAL:HG13	2.16	0.44
1:C:414:LYS:HB3	1:C:416:TYR:CE1	2.53	0.44
1:B:83:THR:O	1:B:87:VAL:HG23	2.18	0.44
1:C:178:THR:O	1:C:182:VAL:HG23	2.18	0.44
1:C:290:PHE:HA	1:C:293:SER:HB3	2.00	0.44
1:A:421:ILE:HG23	1:A:458:LEU:HD23	2.00	0.43
1:B:97:ILE:HD13	1:B:97:ILE:HA	1.85	0.43
1:C:100:VAL:HG21	1:C:158:THR:HA	2.00	0.43
1:A:28:LEU:HD22	1:A:62:LEU:HD12	2.01	0.43
1:B:100:VAL:HG21	1:B:158:THR:HA	2.00	0.43
1:C:459:ASP:N	1:C:459:ASP:OD1	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:79:ILE:HG13	1:A:85:GLY:HA2	2.01	0.43
1:B:34:PHE:CE2	1:B:51:VAL:HG21	2.54	0.43
1:A:248:VAL:HG13	1:A:253:TRP:CZ3	2.54	0.42
1:C:215:TYR:CZ	1:B:473:ALA:HB1	2.54	0.42
1:C:283:TYR:O	1:C:287:VAL:HG13	2.19	0.42
1:C:371:ILE:HA	1:C:377:TYR:CD1	2.54	0.42
1:A:321:PHE:HB3	1:A:379:LYS:HD2	2.01	0.42
1:C:184:LYS:HB3	1:C:184:LYS:HE2	1.90	0.42
1:B:7:ARG:HA	1:B:8:PRO:HD3	1.83	0.42
1:C:358:ASP:N	1:C:358:ASP:OD1	2.44	0.42
1:A:340:ILE:HD12	1:A:477:TYR:CD1	2.54	0.42
1:C:401:LYS:NZ	1:C:453:THR:O	2.52	0.42
1:A:352:TYR:O	1:A:357:LEU:HB2	2.20	0.42
1:B:470:LEU:O	1:B:474:VAL:HG23	2.20	0.42
1:B:56:LEU:HD23	1:B:68:LEU:HD22	2.02	0.42
1:B:219:LYS:HE2	1:A:197:ASN:ND2	2.34	0.41
1:C:79:ILE:HA	1:C:79:ILE:HD13	1.94	0.41
1:A:37:ALA:HB3	1:A:40:ILE:HG12	2.01	0.41
1:C:296:PRO:HG2	1:C:335:THR:HG23	2.02	0.41
1:C:395:PHE:CE1	1:C:400:VAL:HG11	2.54	0.41
1:A:253:TRP:CD1	1:A:292:VAL:HG11	2.55	0.41
1:A:279:LEU:HD23	1:A:279:LEU:HA	1.82	0.41
1:A:328:ILE:HG22	1:A:370:ILE:HD13	2.02	0.41
1:B:340:ILE:HD12	1:B:477:TYR:CG	2.55	0.41
1:B:391:ILE:HD13	1:B:428:ILE:HG12	2.02	0.41
1:C:95:LYS:O	1:C:99:LEU:HD13	2.20	0.41
1:A:104:ILE:HD12	1:A:155:LEU:HD23	2.01	0.41
1:B:17:GLU:O	1:B:21:VAL:HG23	2.20	0.41
1:C:367:LEU:O	1:C:371:ILE:HG13	2.20	0.41
1:C:420:TYR:O	1:C:423:PRO:HD2	2.19	0.41
1:A:296:PRO:HG2	1:A:335:THR:HG23	2.02	0.41
1:A:411:LEU:HD23	1:A:411:LEU:HA	1.72	0.41
1:A:79:ILE:HG13	1:A:85:GLY:CA	2.51	0.41
1:B:159:TRP:HH2	1:B:202:LEU:HB2	1.86	0.41
1:B:248:VAL:HG13	1:B:253:TRP:CZ3	2.56	0.41
1:B:434:VAL:O	1:B:437:SER:HB3	2.20	0.41
1:A:280:ALA:O	1:A:284:GLU:HB2	2.21	0.41
1:C:260:ILE:HG21	1:C:351:MET:HE1	2.03	0.41
1:C:431:ARG:HG2	1:C:431:ARG:HH11	1.86	0.41
1:A:283:TYR:CE1	1:A:305:LYS:HD3	2.56	0.41
1:B:420:TYR:O	1:B:423:PRO:HD2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:13:LYS:O	1:B:17:GLU:HG3	2.21	0.40
1:B:352:TYR:O	1:B:357:LEU:HB2	2.22	0.40
1:C:337:LEU:HD11	1:C:427:VAL:HG13	2.04	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	455/497 (92%)	446 (98%)	9 (2%)	0	100	100
1	B	445/497 (90%)	438 (98%)	7 (2%)	0	100	100
1	C	440/497 (88%)	433 (98%)	7 (2%)	0	100	100
All	All	1340/1491 (90%)	1317 (98%)	23 (2%)	0	100	100

There are no Ramachandran outliers to report.

### 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	413/445 (93%)	413 (100%)	0	100	100
1	B	404/445 (91%)	404 (100%)	0	100	100
1	C	400/445 (90%)	400 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
All	All	1217/1335 (91%)	1217 (100%)	0	100	100

There are no protein residues with a non-rotameric sidechain to report.

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (1) such sidechains are listed below:

Mol	Chain	Res	Type
1	C	25	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 carbohydrates 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

### 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	459/497 (92%)	-0.04	11 (2%) 59 56	71, 112, 190, 249	0
1	B	449/497 (90%)	-0.16	1 (0%) 94 95	65, 102, 151, 196	0
1	C	444/497 (89%)	-0.07	7 (1%) 72 69	84, 121, 168, 195	0
All	All	1352/1491 (90%)	-0.09	19 (1%) 75 73	65, 113, 173, 249	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	117	GLN	4.3
1	A	220	SER	4.3
1	C	153	SER	3.6
1	A	119	ILE	3.5
1	A	113	GLU	3.5
1	A	216	GLN	3.3
1	A	42	TRP	3.2
1	A	34	PHE	2.7
1	C	443	VAL	2.7
1	C	152	THR	2.6
1	B	345	TYR	2.5
1	A	118	GLU	2.5
1	C	107	GLU	2.5
1	A	31	LEU	2.4
1	C	351	MET	2.3
1	C	15	ALA	2.2
1	A	40	ILE	2.2
1	C	18	LEU	2.1
1	A	6	PHE	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 carbohydrates 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.