



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 27, 2026 – 04:09 PM EDT

PDB ID : 11ZT / pdb\_000011zt  
Title : Kindlin-3/Integrin Beta2 Cytoplasmic Tail Complex  
Authors : Xu, Z.; Ma, Y.Q.  
Deposited on : 2026-03-20  
Resolution : 2.40 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 : 4-5-2 with Phenix2.0  
Xtrriage (Phenix) : 2.0  
EDS : 3.0  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.015 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.50

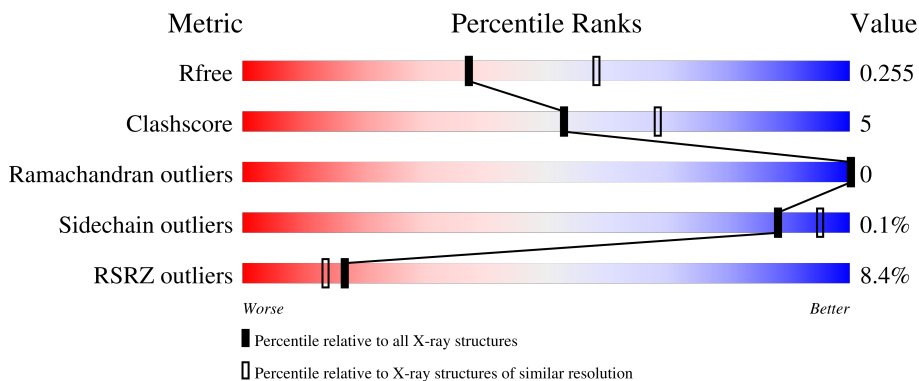
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.40 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	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)

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	491	 5% 76% 10% 14%
1	B	491	 9% 74% 8% 19%

## 2 Entry composition i

There are 2 unique types of molecules in this entry. The entry contains 6838 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 Fermitin family homolog 3, Fermitin family homolog 3, Integrin beta-2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	423	3472	2226	618	616	12	0	0	0
1	B	399	3289	2111	586	581	11	0	0	0

There are 84 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	LYS	deletion	UNP Q86UX7
A	?	-	VAL	deletion	UNP Q86UX7
A	?	-	VAL	deletion	UNP Q86UX7
A	?	-	LEU	deletion	UNP Q86UX7
A	?	-	ALA	deletion	UNP Q86UX7
A	?	-	GLY	deletion	UNP Q86UX7
A	?	-	GLY	deletion	UNP Q86UX7
A	?	-	VAL	deletion	UNP Q86UX7
A	?	-	ALA	deletion	UNP Q86UX7
A	?	-	PRO	deletion	UNP Q86UX7
A	?	-	ALA	deletion	UNP Q86UX7
A	?	-	LEU	deletion	UNP Q86UX7
A	?	-	PHE	deletion	UNP Q86UX7
A	?	-	ARG	deletion	UNP Q86UX7
A	?	-	GLY	deletion	UNP Q86UX7
A	?	-	MET	deletion	UNP Q86UX7
A	?	-	PRO	deletion	UNP Q86UX7
A	?	-	ALA	deletion	UNP Q86UX7
A	?	-	HIS	deletion	UNP Q86UX7
A	?	-	PHE	deletion	UNP Q86UX7
A	?	-	SER	deletion	UNP Q86UX7
A	?	-	ASP	deletion	UNP Q86UX7
A	?	-	SER	deletion	UNP Q86UX7
A	?	-	ALA	deletion	UNP Q86UX7

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Chain	Residue	Modelled	Actual	Comment	Reference
A	?	-	GLN	deletion	UNP Q86UX7
A	?	-	THR	deletion	UNP Q86UX7
A	?	-	GLU	deletion	UNP Q86UX7
A	?	-	ALA	deletion	UNP Q86UX7
A	?	-	CYS	deletion	UNP Q86UX7
A	664	LEU	-	linker	UNP Q86UX7
A	665	LEU	-	linker	UNP Q86UX7
A	666	VAL	-	linker	UNP Q86UX7
A	667	PRO	-	linker	UNP Q86UX7
A	668	ARG	-	linker	UNP Q86UX7
A	669	GLY	-	linker	UNP Q86UX7
A	670	SER	-	linker	UNP Q86UX7
A	671	GLY	-	linker	UNP Q86UX7
A	672	SER	-	linker	UNP Q86UX7
A	673	GLY	-	linker	UNP Q86UX7
A	674	SER	-	linker	UNP Q86UX7
A	675	GLY	-	linker	UNP Q86UX7
A	676	SER	-	linker	UNP Q86UX7
B	?	-	LYS	deletion	UNP Q86UX7
B	?	-	VAL	deletion	UNP Q86UX7
B	?	-	VAL	deletion	UNP Q86UX7
B	?	-	LEU	deletion	UNP Q86UX7
B	?	-	ALA	deletion	UNP Q86UX7
B	?	-	GLY	deletion	UNP Q86UX7
B	?	-	GLY	deletion	UNP Q86UX7
B	?	-	VAL	deletion	UNP Q86UX7
B	?	-	ALA	deletion	UNP Q86UX7
B	?	-	PRO	deletion	UNP Q86UX7
B	?	-	ALA	deletion	UNP Q86UX7
B	?	-	LEU	deletion	UNP Q86UX7
B	?	-	PHE	deletion	UNP Q86UX7
B	?	-	ARG	deletion	UNP Q86UX7
B	?	-	GLY	deletion	UNP Q86UX7
B	?	-	MET	deletion	UNP Q86UX7
B	?	-	PRO	deletion	UNP Q86UX7
B	?	-	ALA	deletion	UNP Q86UX7
B	?	-	HIS	deletion	UNP Q86UX7
B	?	-	PHE	deletion	UNP Q86UX7
B	?	-	SER	deletion	UNP Q86UX7
B	?	-	ASP	deletion	UNP Q86UX7
B	?	-	SER	deletion	UNP Q86UX7
B	?	-	ALA	deletion	UNP Q86UX7

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Chain	Residue	Modelled	Actual	Comment	Reference
B	?	-	GLN	deletion	UNP Q86UX7
B	?	-	THR	deletion	UNP Q86UX7
B	?	-	GLU	deletion	UNP Q86UX7
B	?	-	ALA	deletion	UNP Q86UX7
B	?	-	CYS	deletion	UNP Q86UX7
B	664	LEU	-	linker	UNP Q86UX7
B	665	LEU	-	linker	UNP Q86UX7
B	666	VAL	-	linker	UNP Q86UX7
B	667	PRO	-	linker	UNP Q86UX7
B	668	ARG	-	linker	UNP Q86UX7
B	669	GLY	-	linker	UNP Q86UX7
B	670	SER	-	linker	UNP Q86UX7
B	671	GLY	-	linker	UNP Q86UX7
B	672	SER	-	linker	UNP Q86UX7
B	673	GLY	-	linker	UNP Q86UX7
B	674	SER	-	linker	UNP Q86UX7
B	675	GLY	-	linker	UNP Q86UX7
B	676	SER	-	linker	UNP Q86UX7

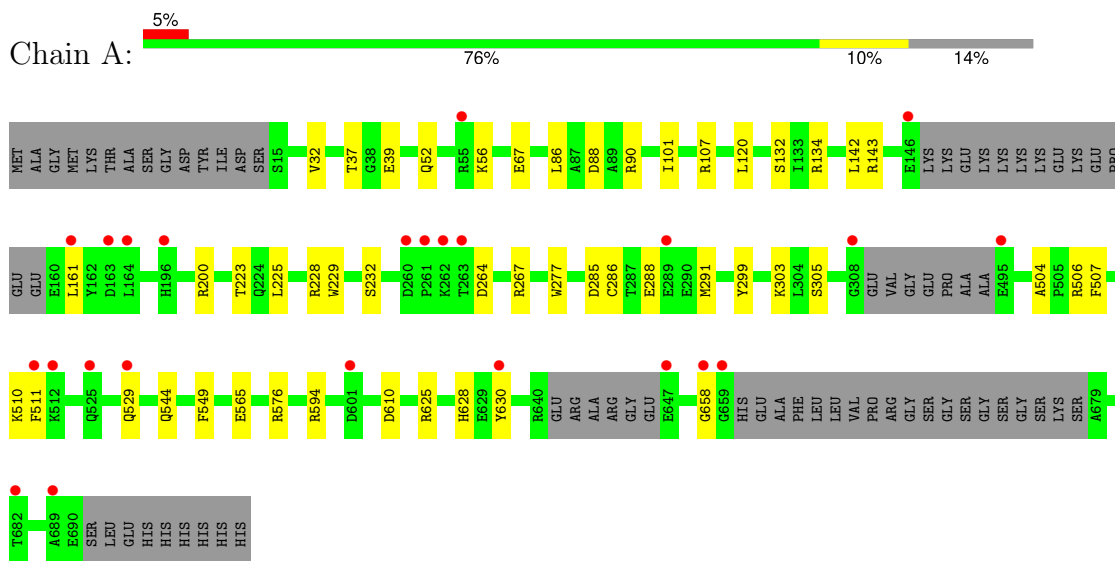
- Molecule 2 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
2	A	40	Total O 40 40	0	0
2	B	37	Total O 37 37	0	0

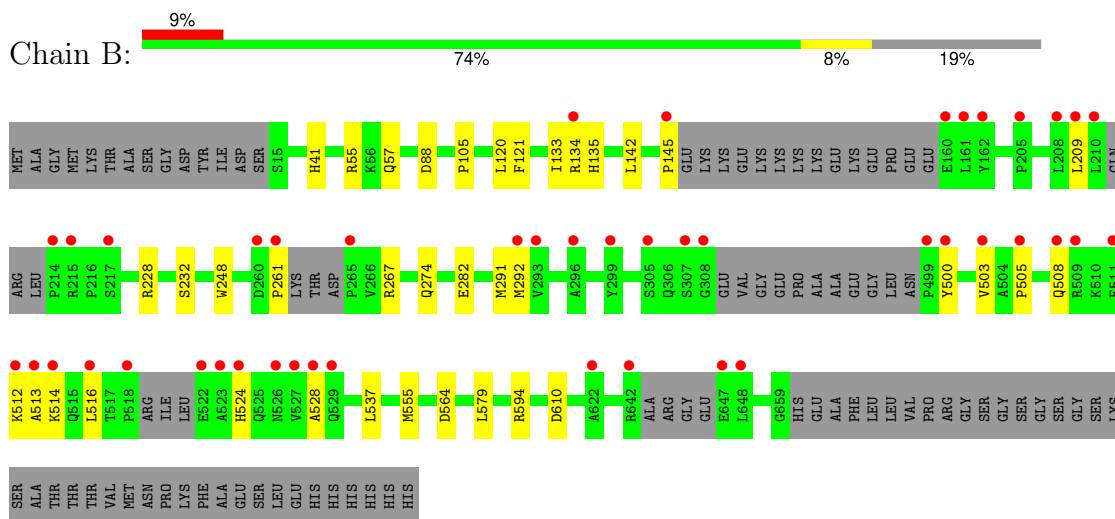
### 3 Residue-property plots [i](#)

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: Fermitin family homolog 3,Fermitin family homolog 3,Integrin beta-2



- Molecule 1: Fermitin family homolog 3,Fermitin family homolog 3,Integrin beta-2



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	90.26Å 102.98Å 114.60Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	35.45 – 2.40 35.45 – 2.40	Depositor EDS
% Data completeness (in resolution range)	97.3 (35.45-2.40) 97.3 (35.45-2.40)	Depositor EDS
$R_{merge}$	0.06	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.37 (at 2.39Å)	Xtrriage
Refinement program	PHENIX 1.12_2829	Depositor
R, $R_{free}$	0.222 , 0.255 0.224 , 0.255	Depositor DCC
$R_{free}$ test set	1994 reflections (4.68%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	40.6	Xtrriage
Anisotropy	0.182	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.31 , 22.5	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.49$ , $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.93	EDS
Total number of atoms	6838	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	46.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.37% 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	0.11	0/3556	0.34	0/4817
1	B	0.14	0/3369	0.34	0/4557
All	All	0.12	0/6925	0.34	0/9374

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	3472	0	3457	32	0
1	B	3289	0	3268	37	0
2	A	40	0	0	0	0
2	B	37	0	0	0	0
All	All	6838	0	6725	68	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 5.

All (68) 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:B:512:LYS:HD3	1:B:514:LYS:H	1.18	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:512:LYS:NZ	1:B:513:ALA:HB3	1.83	0.94
1:A:37:THR:HG23	1:A:39:GLU:H	1.42	0.84
1:B:120:LEU:HB3	1:B:232:SER:HA	1.62	0.81
1:B:134:ARG:HD3	1:B:134:ARG:H	1.46	0.80
1:A:285:ASP:OD1	1:A:506:ARG:NH1	2.16	0.78
1:B:512:LYS:HZ3	1:B:513:ALA:HB3	1.47	0.77
1:A:200:ARG:NH1	1:A:305:SER:O	2.14	0.76
1:B:555:MET:HE1	1:B:579:LEU:HD11	1.68	0.75
1:A:32:VAL:HG22	1:A:52:GLN:HE21	1.53	0.74
1:A:594:ARG:NH1	1:A:610:ASP:OD1	2.27	0.68
1:B:512:LYS:CE	1:B:513:ALA:HB3	2.24	0.67
1:A:628:HIS:HE2	1:A:658:GLY:HA3	1.61	0.66
1:B:503:VAL:O	1:B:508:GLN:NE2	2.29	0.65
1:B:512:LYS:HD3	1:B:514:LYS:N	2.03	0.64
1:B:555:MET:HE2	1:B:564:ASP:HB3	1.79	0.64
1:B:505:PRO:HA	1:B:508:GLN:OE1	2.02	0.60
1:A:132:SER:OG	1:B:41:HIS:NE2	2.35	0.60
1:A:264:ASP:HB3	1:A:267:ARG:HB3	1.84	0.58
1:A:229:TRP:NE1	1:A:630:TYR:OH	2.36	0.58
1:A:107:ARG:HD2	1:A:277:TRP:CE2	2.38	0.58
1:A:134:ARG:NH2	1:A:264:ASP:OD1	2.37	0.58
1:B:292:MET:HE1	1:B:516:LEU:HD12	1.84	0.58
1:B:291:MET:HE2	1:B:503:VAL:HA	1.87	0.56
1:B:134:ARG:CZ	1:B:267:ARG:HB3	2.37	0.55
1:B:261:PRO:HD3	1:B:537:LEU:HD22	1.89	0.54
1:B:500:TYR:OH	1:B:512:LYS:HA	2.08	0.53
1:A:299:TYR:CZ	1:A:303:LYS:HD2	2.45	0.52
1:B:513:ALA:HA	1:B:516:LEU:HD23	1.91	0.52
1:B:512:LYS:HE2	1:B:513:ALA:HB3	1.90	0.51
1:A:101:ILE:HD12	1:A:161:LEU:HD21	1.92	0.51
1:B:145:PRO:HA	1:B:228:ARG:HD3	1.91	0.51
1:A:120:LEU:HB3	1:A:232:SER:HA	1.92	0.51
1:A:88:ASP:OD1	1:A:88:ASP:N	2.44	0.51
1:B:594:ARG:HG2	1:B:594:ARG:HH11	1.76	0.50
1:A:288:GLU:HG2	1:A:507:PHE:HE2	1.78	0.49
1:A:143:ARG:O	1:A:228:ARG:NH1	2.40	0.48
1:A:32:VAL:CG2	1:A:52:GLN:HE21	2.24	0.48
1:A:529:GLN:H	1:A:529:GLN:CD	2.19	0.48
1:B:142:LEU:HB2	1:B:248:TRP:HB2	1.95	0.47
1:A:67:GLU:OE2	1:A:90:ARG:NH1	2.43	0.47
1:A:291:MET:HE3	1:A:504:ALA:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:135:HIS:HB2	1:B:267:ARG:NH1	2.30	0.46
1:B:135:HIS:CD2	1:B:267:ARG:HH12	2.33	0.45
1:A:37:THR:HG23	1:A:39:GLU:N	2.23	0.45
1:B:512:LYS:CD	1:B:514:LYS:H	2.08	0.45
1:B:594:ARG:HD2	1:B:610:ASP:OD1	2.18	0.44
1:A:510:LYS:HG2	1:A:511:PHE:CE1	2.53	0.43
1:B:133:ILE:HG23	1:B:267:ARG:HB2	1.99	0.43
1:A:565:GLU:OE2	1:A:576:ARG:NH2	2.43	0.43
1:B:142:LEU:HD22	1:B:228:ARG:HB2	1.99	0.43
1:A:142:LEU:HD13	1:A:225:LEU:HD21	2.00	0.43
1:B:503:VAL:CG1	1:B:508:GLN:HG3	2.49	0.43
1:B:282:GLU:OE2	1:B:505:PRO:HB2	2.19	0.43
1:B:105:PRO:HB3	1:B:274:GLN:HB2	2.00	0.42
1:A:544:GLN:HA	1:A:549:PHE:CG	2.55	0.42
1:B:121:PHE:HB3	1:B:232:SER:HB2	2.00	0.42
1:B:524:HIS:CE1	1:B:528:ALA:HB2	2.55	0.42
1:A:134:ARG:HB2	1:A:264:ASP:OD2	2.20	0.42
1:B:555:MET:HE1	1:B:579:LEU:CD1	2.46	0.42
1:B:55:ARG:NE	1:B:57:GLN:OE1	2.45	0.41
1:B:88:ASP:N	1:B:88:ASP:OD1	2.52	0.41
1:A:544:GLN:HG2	1:A:549:PHE:CZ	2.56	0.41
1:B:209:LEU:C	1:B:209:LEU:HD12	2.46	0.41
1:A:285:ASP:OD1	1:A:286:CYS:N	2.54	0.41
1:A:56:LYS:HD3	1:A:56:LYS:HA	1.81	0.40
1:A:86:LEU:HB2	1:A:88:ASP:OD1	2.21	0.40
1:A:625:ARG:HD2	1:A:625:ARG:HA	1.92	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	413/491 (84%)	404 (98%)	9 (2%)	0	100	100
1	B	385/491 (78%)	379 (98%)	6 (2%)	0	100	100
All	All	798/982 (81%)	783 (98%)	15 (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	374/429 (87%)	373 (100%)	1 (0%)	86	93
1	B	354/429 (82%)	354 (100%)	0	100	100
All	All	728/858 (85%)	727 (100%)	1 (0%)	88	95

All (1) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	223	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (3) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	52	GLN
1	A	498	ASN
1	B	592	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

### 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	423/491 (86%)	0.44	24 (5%) 29 25	28, 43, 67, 85	0
1	B	399/491 (81%)	0.53	45 (11%) 10 7	27, 42, 86, 109	0
All	All	822/982 (83%)	0.49	69 (8%) 17 14	27, 43, 77, 109	0

All (69) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	516	LEU	5.1
1	B	261	PRO	5.1
1	B	499	PRO	5.0
1	B	209	LEU	5.0
1	A	659	GLY	4.9
1	A	262	LYS	4.4
1	B	210	LEU	4.3
1	A	630	TYR	4.2
1	B	527	VAL	4.0
1	B	308	GLY	3.9
1	B	208	LEU	3.9
1	B	513	ALA	3.8
1	B	260	ASP	3.6
1	A	308	GLY	3.4
1	A	495	GLU	3.3
1	B	511	PHE	3.3
1	A	263	THR	3.2
1	B	522	GLU	3.2
1	B	647	GLU	3.1
1	B	523	ALA	3.1
1	B	518	PRO	3.0
1	B	265	PRO	3.0
1	B	622	ALA	2.9
1	A	689	ALA	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	A	146	GLU	2.9
1	B	160	GLU	2.9
1	B	509	ARG	2.8
1	A	163	ASP	2.8
1	B	514	LYS	2.7
1	A	260	ASP	2.7
1	B	503	VAL	2.6
1	A	682	THR	2.6
1	B	642	ARG	2.5
1	A	196	HIS	2.5
1	A	525	GLN	2.5
1	A	161	LEU	2.5
1	B	508	GLN	2.4
1	A	55	ARG	2.4
1	A	601	ASP	2.3
1	B	299	TYR	2.3
1	B	512	LYS	2.3
1	B	215	ARG	2.3
1	B	529	GLN	2.3
1	B	145	PRO	2.3
1	B	500	TYR	2.3
1	B	648	LEU	2.3
1	B	214	PRO	2.3
1	A	658	GLY	2.3
1	B	162	TYR	2.3
1	A	261	PRO	2.3
1	B	528	ALA	2.3
1	A	512	LYS	2.3
1	A	511	PHE	2.2
1	B	292	MET	2.2
1	B	293	VAL	2.2
1	B	205	PRO	2.2
1	B	217	SER	2.2
1	B	161	LEU	2.2
1	A	289	GLU	2.2
1	B	296	ALA	2.2
1	B	524	HIS	2.1
1	B	134	ARG	2.1
1	B	305	SER	2.1
1	A	164	LEU	2.1
1	B	526	ASN	2.1
1	B	505	PRO	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	307	SER	2.0
1	A	529	GLN	2.0
1	A	647	GLU	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](#)

There are no ligands in this entry.

## 6.5 Other polymers [i](#)

There are no such residues in this entry.