Full wwPDB X-ray Structure Validation Report ⓘ

May 15, 2020 – 10:42 pm BST

PDB ID	:	2J8A
Title	:	X-ray structure of the N-terminus RRM domain of Set1
Authors	:	Tresaugues, L.; Dehe, P.M.; Guerois, R.; Rodriguez-Gil, A.; Varlet, I.; Salah, P.; Pamblanco, M.; Luciano, P.; Quevillon-Cheruel, S.; Sollier, J.; Leulliot, N.; Couprie, J.; Tordera, V.; Zinn-Justin, S.; Chavez, S.; Van Tilbeurgh, H.; Geli, V.
Deposited on	:	2006-10-24
Resolution	:	3.00 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*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see references ①) were used in the production of this report:

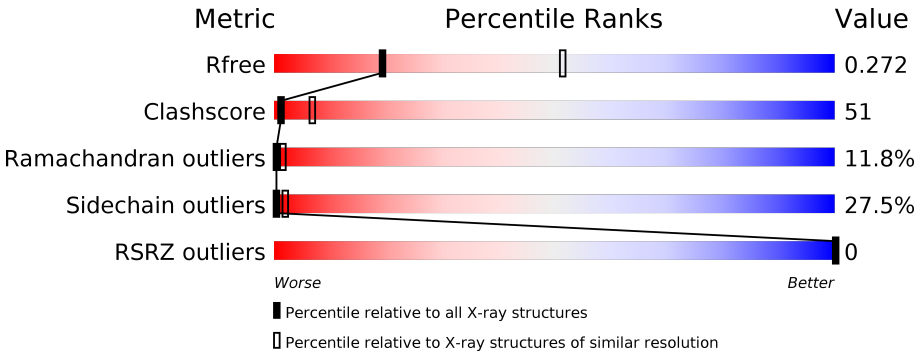
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

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 3.00 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}	130704	2092 (3.00-3.00)
Clashscore	141614	2416 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)

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 >=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 <=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	136	11% 32% 30% 10% 16%

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 915 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 HISTONE-LYSINE N-METHYLTRANSFERASE, H3 LYSINE-4 SPECIFIC.

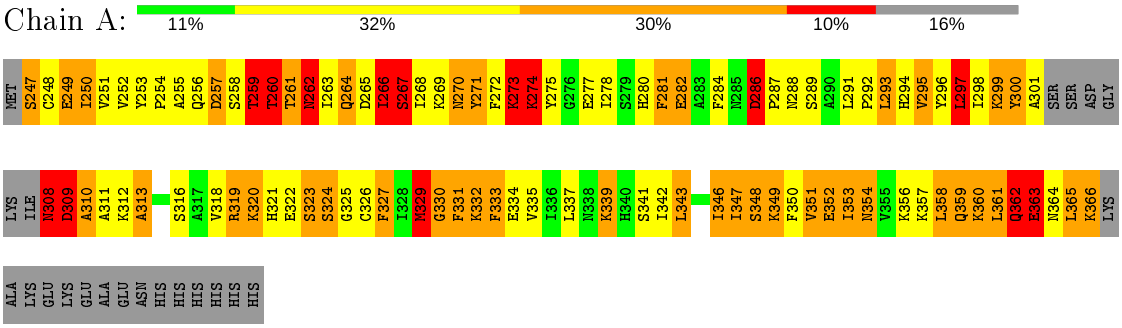
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	114	915	592	152	168	3	0	0	0

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: HISTONE-LYSINE N-METHYLTRANSFERASE, H3 LYSINE-4 SPECIFIC

Chain A:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 43 3 2	Depositor
Cell constants a, b, c, α, β, γ	123.79Å 123.79Å 123.79Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	10.00 – 3.00 9.98 – 3.00	Depositor EDS
% Data completeness (in resolution range)	100.0 (10.00-3.00) 100.0 (9.98-3.00)	Depositor EDS
R_{merge}	0.01	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	5.86 (at 2.99Å)	Xtriage
Refinement program	REFMAC 5.2.0005	Depositor
R, R_{free}	0.246 , 0.277 0.244 , 0.272	Depositor DCC
R_{free} test set	321 reflections (4.79%)	wwPDB-VP
Wilson B-factor (Å^2)	79.2	Xtriage
Anisotropy	0.000	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.36 , 60.2	EDS
L-test for twinning[2]	$< \|L\| > = 0.50$, $< L^2 > = 0.34$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	915	wwPDB-VP
Average B, all atoms (Å^2)	67.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.40% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

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	2.41	49/933 (5.3%)	1.95	30/1255 (2.4%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	5

All (49) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	249	GLU	CB-CG	-9.21	1.34	1.52
1	A	349	LYS	CE-NZ	9.10	1.71	1.49
1	A	352	GLU	CG-CD	8.80	1.65	1.51
1	A	349	LYS	CD-CE	8.38	1.72	1.51
1	A	282	GLU	CB-CG	-8.10	1.36	1.52
1	A	248	CYS	CB-SG	-7.98	1.68	1.82
1	A	253	TYR	CD2-CE2	7.78	1.51	1.39
1	A	366	LYS	CD-CE	7.62	1.70	1.51
1	A	323	SER	CA-CB	7.52	1.64	1.52
1	A	271	TYR	CB-CG	-7.34	1.40	1.51
1	A	356	LYS	CE-NZ	7.34	1.67	1.49
1	A	301	ALA	CA-CB	7.29	1.67	1.52
1	A	327	PHE	CB-CG	-7.12	1.39	1.51
1	A	271	TYR	CD2-CE2	7.04	1.50	1.39
1	A	353	ILE	CA-CB	-6.98	1.38	1.54
1	A	366	LYS	CG-CD	6.91	1.75	1.52
1	A	348	SER	C-O	6.89	1.36	1.23
1	A	366	LYS	CE-NZ	6.87	1.66	1.49
1	A	324	SER	CA-CB	6.79	1.63	1.52
1	A	284	PHE	CE2-CZ	6.71	1.50	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	260	THR	CA-CB	6.65	1.70	1.53
1	A	343	LEU	C-O	6.49	1.35	1.23
1	A	331	PHE	CD2-CE2	6.39	1.52	1.39
1	A	351	VAL	CA-CB	-6.36	1.41	1.54
1	A	295	VAL	C-O	6.23	1.35	1.23
1	A	327	PHE	CA-CB	-6.23	1.40	1.53
1	A	331	PHE	CE1-CZ	6.16	1.49	1.37
1	A	281	PHE	CE2-CZ	6.09	1.49	1.37
1	A	354	ASN	N-CA	-6.01	1.34	1.46
1	A	309	ASP	CB-CG	5.97	1.64	1.51
1	A	356	LYS	CD-CE	5.96	1.66	1.51
1	A	339	LYS	CE-NZ	5.93	1.63	1.49
1	A	266	ILE	CG1-CD1	5.89	1.91	1.50
1	A	301	ALA	N-CA	5.81	1.57	1.46
1	A	273	LYS	CD-CE	5.80	1.65	1.51
1	A	347	ILE	CA-CB	-5.79	1.41	1.54
1	A	320	LYS	CB-CG	5.75	1.68	1.52
1	A	324	SER	CB-OG	5.57	1.49	1.42
1	A	360	LYS	CD-CE	5.46	1.64	1.51
1	A	333	PHE	CB-CG	-5.44	1.42	1.51
1	A	346	ILE	C-O	5.41	1.33	1.23
1	A	325	GLY	C-O	-5.40	1.15	1.23
1	A	260	THR	CB-CG2	5.25	1.69	1.52
1	A	308	ASN	CB-CG	5.22	1.63	1.51
1	A	320	LYS	CG-CD	5.21	1.70	1.52
1	A	300	TYR	CD2-CE2	5.18	1.47	1.39
1	A	349	LYS	CA-C	-5.18	1.39	1.52
1	A	335	VAL	CB-CG1	-5.16	1.42	1.52
1	A	274	LYS	CE-NZ	5.04	1.61	1.49

All (30) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	257	ASP	CB-CG-OD2	-11.70	107.77	118.30
1	A	257	ASP	CB-CG-OD1	9.66	127.00	118.30
1	A	343	LEU	CB-CG-CD1	-9.47	94.90	111.00
1	A	269	LYS	CD-CE-NZ	-8.91	91.21	111.70
1	A	365	LEU	CA-CB-CG	8.11	133.96	115.30
1	A	259	THR	N-CA-C	7.28	130.66	111.00
1	A	352	GLU	OE1-CD-OE2	-6.84	115.09	123.30
1	A	321	HIS	N-CA-C	6.71	129.10	111.00
1	A	329	MET	CG-SD-CE	6.61	110.77	100.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	335	VAL	CB-CA-C	-6.38	99.27	111.40
1	A	352	GLU	N-CA-CB	-6.34	99.19	110.60
1	A	293	LEU	CB-CG-CD2	-6.31	100.27	111.00
1	A	273	LYS	CD-CE-NZ	6.24	126.05	111.70
1	A	277	GLU	N-CA-C	-6.06	94.64	111.00
1	A	348	SER	N-CA-CB	-5.87	101.70	110.50
1	A	362	GLN	C-N-CA	-5.65	107.57	121.70
1	A	253	TYR	CD1-CE1-CZ	5.39	124.65	119.80
1	A	332	LYS	CD-CE-NZ	-5.38	99.32	111.70
1	A	320	LYS	C-N-CA	-5.31	108.43	121.70
1	A	286	ASP	CB-CA-C	5.25	120.89	110.40
1	A	353	ILE	CA-CB-CG2	-5.21	100.47	110.90
1	A	297	LEU	CB-CA-C	-5.21	100.30	110.20
1	A	319	ARG	NE-CZ-NH2	-5.17	117.71	120.30
1	A	343	LEU	CB-CG-CD2	-5.16	102.23	111.00
1	A	287	PRO	CB-CA-C	-5.13	99.17	112.00
1	A	353	ILE	CG1-CB-CG2	5.13	122.69	111.40
1	A	343	LEU	CA-CB-CG	-5.12	103.53	115.30
1	A	262	ASN	N-CA-C	-5.06	97.35	111.00
1	A	257	ASP	C-N-CA	-5.03	109.12	121.70
1	A	266	ILE	CB-CG1-CD1	5.02	127.96	113.90

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	259	THR	CA

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	247	SER	Peptide
1	A	260	THR	Peptide
1	A	300	TYR	Peptide
1	A	309	ASP	Peptide
1	A	363	GLU	Peptide

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	915	0	923	93	0
All	All	915	0	923	93	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 51.

All (93) 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:366:LYS:CD	1:A:366:LYS:CG	1.75	1.54
1:A:349:LYS:NZ	1:A:349:LYS:CE	1.71	1.48
1:A:266:ILE:CG1	1:A:266:ILE:CD1	1.91	1.46
1:A:363:GLU:CB	1:A:366:LYS:HE3	1.60	1.31
1:A:363:GLU:HB2	1:A:366:LYS:HE3	1.12	1.07
1:A:363:GLU:CB	1:A:366:LYS:CE	2.37	1.03
1:A:363:GLU:HB3	1:A:366:LYS:CE	1.89	1.02
1:A:262:ASN:HD22	1:A:262:ASN:H	0.94	0.93
1:A:256:GLN:HE21	1:A:259:THR:HG21	1.32	0.93
1:A:264:GLN:HE21	1:A:264:GLN:H	1.15	0.92
1:A:254:PRO:HD3	1:A:294:HIS:O	1.71	0.90
1:A:258:SER:O	1:A:259:THR:HG23	1.73	0.88
1:A:363:GLU:HB3	1:A:366:LYS:HE3	1.52	0.87
1:A:262:ASN:N	1:A:262:ASN:HD22	1.65	0.86
1:A:250:ILE:CG2	1:A:298:ILE:HB	2.06	0.85
1:A:250:ILE:HG22	1:A:298:ILE:HB	1.64	0.80
1:A:264:GLN:HE21	1:A:264:GLN:N	1.79	0.79
1:A:250:ILE:HG22	1:A:298:ILE:O	1.84	0.78
1:A:259:THR:CB	1:A:331:PHE:HZ	1.97	0.77
1:A:259:THR:HG1	1:A:331:PHE:HZ	1.32	0.76
1:A:262:ASN:H	1:A:262:ASN:ND2	1.78	0.74
1:A:363:GLU:HB3	1:A:366:LYS:HE2	1.66	0.74
1:A:366:LYS:CD	1:A:366:LYS:CB	2.66	0.74
1:A:259:THR:HB	1:A:331:PHE:CZ	2.23	0.73
1:A:289:SER:OG	1:A:291:LEU:HD12	1.90	0.70
1:A:348:SER:O	1:A:352:GLU:HG3	1.93	0.68
1:A:247:SER:HA	1:A:339:LYS:HZ2	1.59	0.68
1:A:342:ILE:O	1:A:346:ILE:HG12	1.94	0.67
1:A:249:GLU:HG2	1:A:299:LYS:HB2	1.76	0.67
1:A:309:ASP:HB2	1:A:312:LYS:HB3	1.77	0.66
1:A:297:LEU:HG	1:A:343:LEU:HD22	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:316:SER:O	1:A:319:ARG:N	2.25	0.65
1:A:259:THR:OG1	1:A:331:PHE:HZ	1.78	0.65
1:A:270:ASN:O	1:A:271:TYR:C	2.31	0.65
1:A:347:ILE:O	1:A:348:SER:C	2.34	0.64
1:A:308:ASN:C	1:A:308:ASN:HD22	2.00	0.64
1:A:329:MET:O	1:A:331:PHE:N	2.31	0.64
1:A:259:THR:HB	1:A:331:PHE:HZ	1.58	0.63
1:A:259:THR:CB	1:A:331:PHE:CZ	2.81	0.62
1:A:256:GLN:NE2	1:A:259:THR:HG21	2.09	0.61
1:A:292:PRO:HB2	1:A:294:HIS:CE1	2.37	0.59
1:A:309:ASP:O	1:A:309:ASP:CG	2.41	0.57
1:A:366:LYS:CE	1:A:366:LYS:CG	2.81	0.57
1:A:266:ILE:O	1:A:267:SER:C	2.43	0.57
1:A:262:ASN:N	1:A:262:ASN:ND2	2.36	0.56
1:A:309:ASP:HB2	1:A:312:LYS:CB	2.36	0.55
1:A:359:GLN:HA	1:A:362:GLN:NE2	2.22	0.55
1:A:264:GLN:O	1:A:265:ASP:C	2.46	0.54
1:A:262:ASN:C	1:A:262:ASN:ND2	2.58	0.54
1:A:252:VAL:HG12	1:A:333:PHE:CD1	2.44	0.53
1:A:261:THR:HB	1:A:263:ILE:H	1.74	0.52
1:A:247:SER:HA	1:A:339:LYS:NZ	2.23	0.52
1:A:266:ILE:O	1:A:268:ILE:N	2.43	0.51
1:A:309:ASP:O	1:A:309:ASP:OD1	2.27	0.51
1:A:329:MET:O	1:A:330:GLY:C	2.47	0.51
1:A:265:ASP:O	1:A:268:ILE:N	2.34	0.49
1:A:258:SER:O	1:A:259:THR:CG2	2.54	0.48
1:A:282:GLU:O	1:A:296:TYR:HA	2.13	0.48
1:A:272:PHE:O	1:A:275:TYR:HD1	1.95	0.48
1:A:265:ASP:HB2	1:A:266:ILE:HD12	1.94	0.47
1:A:256:GLN:CG	1:A:256:GLN:O	2.62	0.47
1:A:264:GLN:O	1:A:267:SER:HB2	2.13	0.47
1:A:252:VAL:HA	1:A:334:GLU:O	2.15	0.47
1:A:258:SER:OG	1:A:357:LYS:NZ	2.45	0.47
1:A:273:LYS:O	1:A:275:TYR:N	2.45	0.47
1:A:266:ILE:H	1:A:266:ILE:CD1	2.29	0.46
1:A:310:ALA:O	1:A:313:ALA:HB3	2.16	0.46
1:A:327:PHE:CE2	1:A:332:LYS:HB2	2.51	0.46
1:A:273:LYS:N	1:A:278:ILE:CD1	2.79	0.46
1:A:293:LEU:O	1:A:294:HIS:HB2	2.16	0.45
1:A:318:VAL:O	1:A:318:VAL:HG12	2.16	0.45
1:A:337:LEU:O	1:A:339:LYS:N	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:255:ALA:HB2	1:A:332:LYS:HG2	2.00	0.44
1:A:358:LEU:HD23	1:A:358:LEU:HA	1.40	0.44
1:A:361:LEU:HA	1:A:361:LEU:HD12	1.66	0.44
1:A:352:GLU:O	1:A:353:ILE:C	2.55	0.44
1:A:266:ILE:H	1:A:266:ILE:HD12	1.83	0.43
1:A:270:ASN:O	1:A:272:PHE:N	2.52	0.43
1:A:347:ILE:O	1:A:349:LYS:N	2.51	0.43
1:A:308:ASN:ND2	1:A:308:ASN:C	2.69	0.43
1:A:363:GLU:HB2	1:A:366:LYS:CE	2.07	0.43
1:A:250:ILE:HD13	1:A:250:ILE:HG23	1.56	0.43
1:A:286:ASP:OD2	1:A:288:ASN:N	2.43	0.42
1:A:273:LYS:N	1:A:278:ILE:HD11	2.34	0.42
1:A:256:GLN:HE21	1:A:259:THR:CG2	2.16	0.42
1:A:349:LYS:CD	1:A:349:LYS:NZ	2.76	0.41
1:A:343:LEU:HD12	1:A:343:LEU:HA	1.38	0.41
1:A:351:VAL:O	1:A:354:ASN:HB2	2.20	0.41
1:A:252:VAL:O	1:A:295:VAL:HA	2.20	0.41
1:A:281:PHE:CD1	1:A:298:ILE:HG12	2.56	0.41
1:A:329:MET:C	1:A:331:PHE:N	2.75	0.40
1:A:286:ASP:C	1:A:286:ASP:OD2	2.60	0.40
1:A:293:LEU:HD22	1:A:350:PHE:HB2	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	110/136 (81%)	81 (74%)	16 (14%)	13 (12%)	0 1

All (13) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	266	ILE
1	A	267	SER
1	A	323	SER
1	A	270	ASN
1	A	273	LYS
1	A	274	LYS
1	A	330	GLY
1	A	280	HIS
1	A	311	ALA
1	A	313	ALA
1	A	364	ASN
1	A	257	ASP
1	A	310	ALA

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	102/121 (84%)	74 (72%)	28 (28%)	0 2

All (28) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	250	ILE
1	A	251	VAL
1	A	259	THR
1	A	260	THR
1	A	261	THR
1	A	262	ASN
1	A	264	GLN
1	A	266	ILE
1	A	267	SER
1	A	274	LYS
1	A	286	ASP
1	A	297	LEU
1	A	299	LYS
1	A	308	ASN

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Mol	Chain	Res	Type
1	A	309	ASP
1	A	320	LYS
1	A	322	GLU
1	A	324	SER
1	A	326	CYS
1	A	329	MET
1	A	341	SER
1	A	358	LEU
1	A	359	GLN
1	A	360	LYS
1	A	361	LEU
1	A	362	GLN
1	A	363	GLU
1	A	365	LEU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	256	GLN
1	A	262	ASN
1	A	264	GLN
1	A	294	HIS
1	A	308	ASN
1	A	362	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

There are no ligands in this entry.

5.7 Other polymers

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

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^{th} 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	114/136 (83%)	-0.36	0 100 100	39, 65, 96, 102	0

There are no RSRZ outliers to report.

6.2 Non-standard residues in protein, DNA, RNA chains

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

There are no ligands in this entry.

6.5 Other polymers

There are no such residues in this entry.