



Full wwPDB X-ray Structure Validation Report ⓘ

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PDB ID : 6MBW / pdb_00006mbw
Title : Structure of Transcription Factor
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Deposited on : 2018-08-30
Resolution : 3.29 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 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

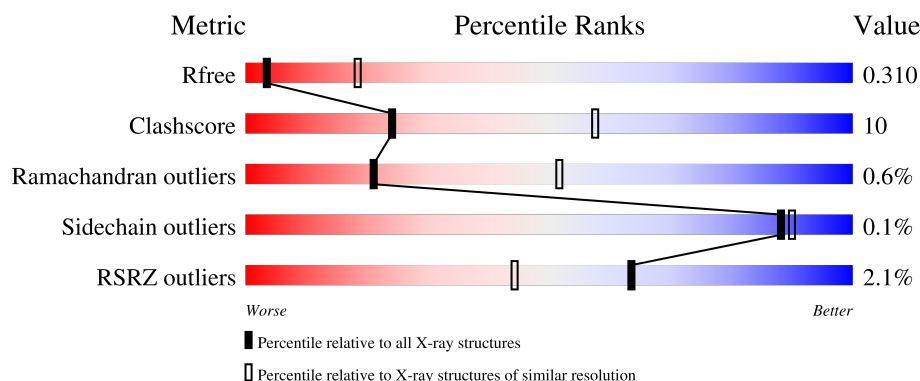
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.29 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	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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	572	
1	B	572	

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 7680 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 Signal transducer and activator of transcription 5B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	524	Total	C	N	O	S	0	0	0
			3789	2409	645	725	10			
1	B	523	Total	C	N	O	S	0	0	0
			3888	2495	663	719	11			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	132	SER	-	expression tag	UNP P51692
A	133	THR	-	expression tag	UNP P51692
A	134	GLY	-	expression tag	UNP P51692
A	135	SER	-	expression tag	UNP P51692
B	132	SER	-	expression tag	UNP P51692
B	133	THR	-	expression tag	UNP P51692
B	134	GLY	-	expression tag	UNP P51692
B	135	SER	-	expression tag	UNP P51692

- Molecule 2 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	3	Total	O	0	0
			3	3		

VAL
PRO
CYS
GLU
SER
ALA
THR
ALA
LYS
ALA
VAL
ASP
GLY
TYR
VAL
LYS
PRO
GLN

4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	134.60Å 138.62Å 76.50Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	96.57 – 3.29 96.57 – 3.29	Depositor EDS
% Data completeness (in resolution range)	98.1 (96.57-3.29) 98.2 (96.57-3.29)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.83 (at 3.26Å)	Xtriage
Refinement program	PHENIX (1.14_3260: ???)	Depositor
R, R_{free}	0.266 , 0.305 0.268 , 0.310	Depositor DCC
R_{free} test set	1150 reflections (5.22%)	wwPDB-VP
Wilson B-factor (Å ²)	113.3	Xtriage
Anisotropy	0.519	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 89.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.000 for k,h,-l	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	7680	wwPDB-VP
Average B, all atoms (Å ²)	109.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.28% 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

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	0.13	0/3868	0.37	0/5292
1	B	0.12	0/3973	0.34	0/5428
All	All	0.13	0/7841	0.36	0/10720

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	0	4
1	B	0	2
All	All	0	6

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	315	GLU	Peptide
1	A	340	GLN	Peptide
1	A	670	PHE	Peptide
1	A	671	PRO	Peptide
1	B	374	ILE	Peptide
1	B	376	GLU	Peptide

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	3789	0	3337	76	0
1	B	3888	0	3565	69	0
2	A	3	0	0	1	0
All	All	7680	0	6902	145	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 10.

All (145) 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:237:LEU:HD22	1:A:316:VAL:HG13	1.49	0.92
1:B:289:ASN:O	1:B:293:ILE:HD13	1.75	0.86
1:A:341:VAL:HG12	1:A:467:VAL:HB	1.61	0.81
1:A:315:GLU:O	1:A:317:ASN:N	2.15	0.80
1:B:237:LEU:HD21	1:B:320:ILE:HG12	1.64	0.77
1:A:483:LEU:HD12	1:A:514:LYS:HD2	1.65	0.76
1:A:237:LEU:HD21	1:A:320:ILE:HG23	1.67	0.74
1:B:644:MET:HG2	1:B:645:PRO:HD2	1.69	0.74
1:B:376:GLU:O	1:B:378:GLN:N	2.21	0.73
1:A:644:MET:N	1:A:644:MET:SD	2.61	0.73
1:B:447:GLN:HG3	1:B:458:GLN:HG2	1.69	0.73
1:B:596:GLY:HA2	1:B:618:ARG:HA	1.69	0.72
1:A:370:LYS:HA	1:A:400:CYS:HB2	1.70	0.72
1:B:151:LEU:HD21	1:B:239:LEU:HD22	1.73	0.70
1:B:529:ASN:O	1:B:533:LEU:HD12	1.92	0.69
1:B:226:ARG:NH1	1:B:300:CYS:SG	2.67	0.68
1:A:259:GLN:HG3	1:A:269:GLU:HG2	1.78	0.66
1:A:191:GLN:HA	1:A:197:ARG:HD2	1.77	0.66
1:B:149:GLU:O	1:B:153:LEU:HD22	1.97	0.65
1:B:504:TRP:HE3	1:B:553:VAL:HG11	1.62	0.64
1:A:334:ILE:HG22	1:A:352:VAL:HG12	1.81	0.63
1:A:441:THR:HB	1:A:496:PHE:HZ	1.63	0.63
1:A:276:GLN:NE2	1:A:355:LEU:O	2.31	0.62
1:B:651:PHE:HE1	1:B:656:LEU:HB2	1.64	0.62
1:A:667:ILE:O	1:A:675:LYS:N	2.33	0.62
1:B:327:LEU:O	1:B:331:THR:OG1	2.08	0.62
1:A:229:LEU:C	1:A:229:LEU:HD13	2.25	0.60
1:B:265:GLY:HA3	1:B:517:ALA:HB2	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:340:GLN:OE1	1:A:486:ASN:ND2	2.30	0.60
1:A:216:GLN:HA	1:A:219:ALA:HB3	1.84	0.59
1:A:615:PHE:HB2	1:A:669:VAL:HG12	1.85	0.59
1:B:353:ARG:HH21	1:B:411:THR:HG21	1.68	0.59
1:B:272:LEU:HD23	1:B:353:ARG:HH11	1.67	0.58
1:B:544:HIS:NE2	1:B:546:GLU:OE1	2.36	0.58
1:A:178:GLU:HA	1:A:181:ARG:HB3	1.84	0.58
1:B:299:LEU:O	1:B:304:PRO:HD3	2.04	0.56
1:B:559:ASN:O	1:B:559:ASN:ND2	2.38	0.56
1:A:579:GLU:HG3	1:A:583:LYS:HE2	1.86	0.56
1:A:265:GLY:HA3	1:A:517:ALA:HB2	1.87	0.56
1:A:584:HIS:HE1	1:A:648:THR:HG23	1.70	0.56
1:A:577:VAL:HA	1:A:580:VAL:HG12	1.88	0.56
1:B:290:ARG:HG3	1:B:320:ILE:HG21	1.89	0.54
1:B:331:THR:HG21	1:B:356:VAL:HG12	1.89	0.54
1:B:447:GLN:OE1	1:B:458:GLN:NE2	2.34	0.54
1:A:596:GLY:HA2	1:A:619:PHE:CE2	2.43	0.54
1:A:350:ALA:O	1:A:416:PHE:HB2	2.08	0.53
1:A:368:GLN:HA	1:A:402:VAL:HA	1.90	0.53
1:A:480:ALA:HB2	1:A:571:TRP:NE1	2.22	0.53
1:B:632:LYS:HA	1:B:640:PHE:HB3	1.90	0.53
1:A:584:HIS:CE1	1:A:648:THR:HG23	2.44	0.53
1:B:544:HIS:CE1	1:B:546:GLU:HB2	2.44	0.52
1:B:169:GLN:HE21	1:B:303:LEU:HD22	1.74	0.52
1:B:617:LEU:HD23	1:B:617:LEU:H	1.75	0.52
1:A:469:ILE:HG23	1:A:474:GLN:HB2	1.92	0.52
1:B:557:GLN:HA	1:B:561:GLU:HB2	1.90	0.52
1:A:480:ALA:HB2	1:A:571:TRP:CD1	2.46	0.51
1:A:569:THR:O	1:A:572:GLN:N	2.43	0.51
1:B:544:HIS:ND1	1:B:547:ASP:OD2	2.31	0.51
1:B:607:LEU:HA	1:B:610:LYS:HD3	1.94	0.50
1:B:539:ASN:N	1:B:539:ASN:OD1	2.44	0.50
1:A:343:LYS:O	1:A:346:THR:OG1	2.29	0.50
1:B:480:ALA:HB2	1:B:571:TRP:CD1	2.46	0.50
1:A:340:GLN:HA	1:A:466:VAL:HG23	1.94	0.49
1:B:333:ILE:HG12	1:B:355:LEU:HD21	1.94	0.49
1:A:477:ASN:OD1	1:A:559:ASN:ND2	2.40	0.48
1:A:215:LEU:O	1:A:216:GLN:HB3	2.13	0.48
1:A:342:LEU:HD23	1:A:466:VAL:HG21	1.96	0.48
1:B:340:GLN:HA	1:B:466:VAL:HG12	1.96	0.48
1:A:629:ILE:HG13	1:A:643:LEU:HD22	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:476:ASN:HD21	1:B:575:ASP:CG	2.19	0.48
1:B:476:ASN:ND2	1:B:575:ASP:OD2	2.26	0.48
1:A:372:THR:HA	1:A:397:LEU:HD23	1.96	0.47
1:B:483:LEU:HD12	1:B:514:LYS:HG3	1.95	0.47
1:A:577:VAL:O	1:A:581:LEU:HG	2.15	0.47
1:A:629:ILE:HG22	1:A:630:ALA:H	1.79	0.47
1:B:164:LYS:HD2	1:B:225:TYR:HE2	1.79	0.47
1:B:237:LEU:HD22	1:B:316:VAL:HG13	1.97	0.47
1:A:508:CYS:HA	1:A:511:LEU:HD12	1.95	0.46
1:B:602:GLN:N	1:B:602:GLN:OE1	2.47	0.46
1:A:334:ILE:HD12	1:A:334:ILE:O	2.16	0.46
1:A:337:GLN:HG3	1:A:338:PRO:HD2	1.98	0.46
1:B:287:TRP:O	1:B:291:GLN:HG2	2.15	0.46
1:B:252:LEU:HD11	1:B:333:ILE:HG21	1.97	0.45
1:A:353:ARG:HG2	1:A:413:SER:HB3	1.97	0.45
1:A:334:ILE:HD13	1:A:337:GLN:OE1	2.17	0.45
1:A:441:THR:HB	1:A:496:PHE:CZ	2.49	0.45
1:B:247:ILE:HD13	1:B:278:TRP:HB3	1.98	0.45
1:A:574:PHE:O	1:A:577:VAL:HG22	2.16	0.45
1:A:144:ILE:HD11	1:A:278:TRP:CZ2	2.52	0.45
1:B:151:LEU:O	1:B:155:THR:HG23	2.17	0.45
1:A:151:LEU:O	1:A:155:THR:HG23	2.16	0.45
1:A:141:HIS:O	1:A:145:ASN:ND2	2.44	0.45
1:B:226:ARG:HH12	1:B:300:CYS:HA	1.82	0.45
1:A:331:THR:HB	1:A:355:LEU:HB2	1.97	0.44
1:B:618:ARG:O	1:B:627:ILE:HG13	2.18	0.44
1:A:504:TRP:N	1:A:505:PRO:HD2	2.32	0.44
1:B:531:VAL:HG23	1:B:548:TYR:CE2	2.53	0.44
1:B:255:TRP:CE2	1:B:272:LEU:HD13	2.53	0.44
1:B:604:HIS:O	1:B:608:ILE:HG23	2.17	0.44
1:A:265:GLY:HA3	1:A:517:ALA:CB	2.48	0.43
1:B:504:TRP:CE3	1:B:553:VAL:HG11	2.48	0.43
1:A:469:ILE:HD11	1:A:478:ALA:HB2	1.99	0.43
1:A:573:TRP:O	1:A:577:VAL:HG13	2.18	0.43
1:A:211:LEU:HD23	1:A:211:LEU:HA	1.81	0.43
1:A:337:GLN:NE2	1:A:464:LEU:H	2.15	0.43
1:A:615:PHE:HB2	1:A:669:VAL:HA	2.00	0.43
1:B:608:ILE:HG22	1:B:640:PHE:HE2	1.84	0.42
1:A:367:PRO:HG3	1:A:448:PHE:HB3	2.01	0.42
1:A:643:LEU:HG	1:A:644:MET:O	2.19	0.42
1:B:651:PHE:CE1	1:B:656:LEU:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:631:TRP:CD1	1:B:631:TRP:N	2.88	0.42
1:A:155:THR:HG21	1:A:285:ILE:HG23	2.00	0.42
1:B:528:GLU:HA	1:B:531:VAL:HG12	2.02	0.42
1:A:395:GLU:CB	1:A:424:ILE:HA	2.50	0.42
1:A:676:ASP:O	1:A:680:SER:N	2.52	0.42
1:B:606:LEU:HG	1:B:670:PHE:CE1	2.55	0.42
1:A:250:ASP:O	1:A:254:GLN:HG3	2.19	0.42
1:B:527:LYS:HD3	1:B:545:LEU:HD23	2.02	0.42
1:B:246:ILE:O	1:B:250:ASP:HB3	2.20	0.42
1:A:424:ILE:HD13	1:A:468:VAL:HG11	2.01	0.41
1:B:242:LYS:O	1:B:245:THR:OG1	2.34	0.41
1:A:349:ALA:HA	1:A:416:PHE:O	2.19	0.41
1:B:614:THR:HG22	1:B:668:TYR:HB2	2.02	0.41
1:B:599:ASN:HB3	1:B:602:GLN:OE1	2.20	0.41
1:A:176:TYR:HA	1:A:215:LEU:HD21	2.02	0.41
1:A:341:VAL:HG21	1:A:479:THR:HG22	2.02	0.41
1:A:275:LEU:HD12	1:A:275:LEU:H	1.85	0.41
1:A:240:LEU:HD21	1:A:286:ILE:HG22	2.02	0.41
1:B:178:GLU:O	1:B:182:ILE:HG12	2.21	0.41
1:B:222:LEU:HD23	1:B:222:LEU:HA	1.93	0.41
1:B:465:PRO:HG3	1:B:496:PHE:CD1	2.55	0.41
1:A:348:PHE:CZ	1:A:419:MET:HE2	2.56	0.41
1:B:166:GLN:HG2	1:B:299:LEU:HD11	2.02	0.41
1:B:620:SER:OG	1:B:645:PRO:HB3	2.21	0.41
1:B:353:ARG:HG3	1:B:413:SER:HB3	2.03	0.41
1:B:577:VAL:HA	1:B:580:VAL:HG12	2.03	0.41
1:A:189:LEU:N	2:A:803:HOH:O	2.54	0.40
1:A:405:TYR:HE2	1:A:407:GLN:HA	1.85	0.40
1:A:229:LEU:C	1:A:229:LEU:CD1	2.94	0.40
1:A:670:PHE:O	1:A:671:PRO:O	2.40	0.40
1:B:233:HIS:CE1	1:B:293:ILE:HD12	2.56	0.40
1:B:340:GLN:OE1	1:B:486:ASN:ND2	2.47	0.40
1:B:595:LEU:HD12	1:B:595:LEU:O	2.22	0.40
1:A:240:LEU:HD12	1:A:240:LEU:HA	1.87	0.40
1:A:519:VAL:HG23	1:A:521:SER:HB3	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles

5.3.1 Protein backbone

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	508/572 (89%)	472 (93%)	32 (6%)	4 (1%)	16	45
1	B	513/572 (90%)	472 (92%)	39 (8%)	2 (0%)	30	60
All	All	1021/1144 (89%)	944 (92%)	71 (7%)	6 (1%)	21	52

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	315	GLU
1	A	316	VAL
1	A	671	PRO
1	B	376	GLU
1	B	377	GLN
1	A	341	VAL

5.3.2 Protein sidechains

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	350/510 (69%)	349 (100%)	1 (0%)	86	86
1	B	374/510 (73%)	374 (100%)	0	100	100
All	All	724/1020 (71%)	723 (100%)	1 (0%)	88	90

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

Mol	Chain	Res	Type
1	A	672	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	243	GLN
1	A	260	GLN
1	A	399	ASN
1	B	160	ASN
1	B	183	GLN
1	B	224	GLN
1	B	276	GLN
1	B	291	GLN
1	B	415	HIS
1	B	642	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 ⓘ

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, 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	524/572 (91%)	0.22	13 (2%) 58 39	73, 109, 145, 189	0
1	B	523/572 (91%)	0.20	9 (1%) 69 50	73, 106, 138, 164	0
All	All	1047/1144 (91%)	0.21	22 (2%) 63 44	73, 108, 142, 189	0

All (22) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	355	LEU	3.7
1	A	335	GLU	3.7
1	A	453	ASN	3.0
1	A	596	GLY	3.0
1	A	574	PHE	2.8
1	A	615	PHE	2.7
1	A	619	PHE	2.7
1	A	507	LEU	2.7
1	A	398	ASN	2.7
1	B	361	ASN	2.7
1	B	450	VAL	2.6
1	A	356	VAL	2.6
1	B	392	TYR	2.5
1	B	264	ASN	2.3
1	B	387	ASN	2.2
1	A	602	GLN	2.2
1	B	474	GLN	2.2
1	B	444	PHE	2.2
1	A	185	GLN	2.1
1	A	616	LEU	2.1
1	B	453	ASN	2.1
1	B	467	VAL	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.