



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 9, 2026 – 07:58 PM UTC

PDB ID : 1XJL / pdb_00001xjl
Title : Structure of human annexin A2 in the presence of calcium ions
Authors : Rosengarth, A.; Luecke, H.
Deposited on : 2004-09-23
Resolution : 2.59 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

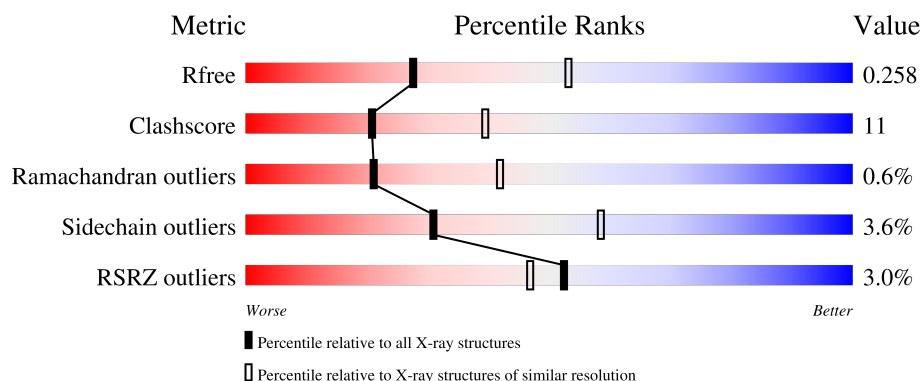
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.59 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	4008 (2.60-2.60)
Clashscore	190562	4347 (2.60-2.60)
Ramachandran outliers	187476	4277 (2.60-2.60)
Sidechain outliers	187428	4277 (2.60-2.60)
RSRZ outliers	180081	4008 (2.60-2.60)

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	319	4% 74% 23% .
1	B	319	2% 77% 22% .

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 5350 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 Annexin A2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	319	Total	C	N	O	S	0	0	0
			2562	1609	441	501	11			
1	B	319	Total	C	N	O	S	0	0	0
			2562	1609	441	501	11			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	66	GLU	ALA	engineered mutation	UNP P07355
B	66	GLU	ALA	engineered mutation	UNP P07355

- Molecule 2 is CALCIUM ION (CCD ID: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	7	Total	Ca	0	0
			7	7		
2	B	7	Total	Ca	0	0
			7	7		

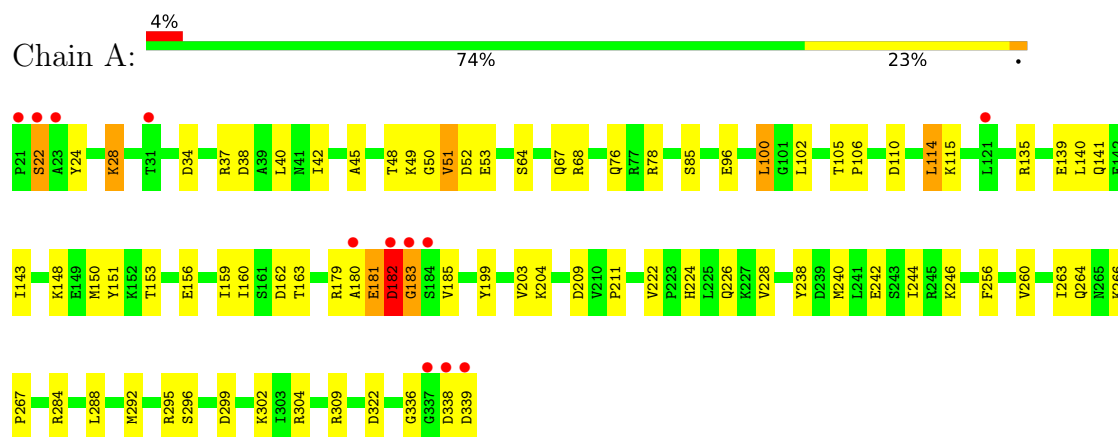
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	101	Total	O	0	0
			101	101		
3	B	111	Total	O	0	0
			111	111		

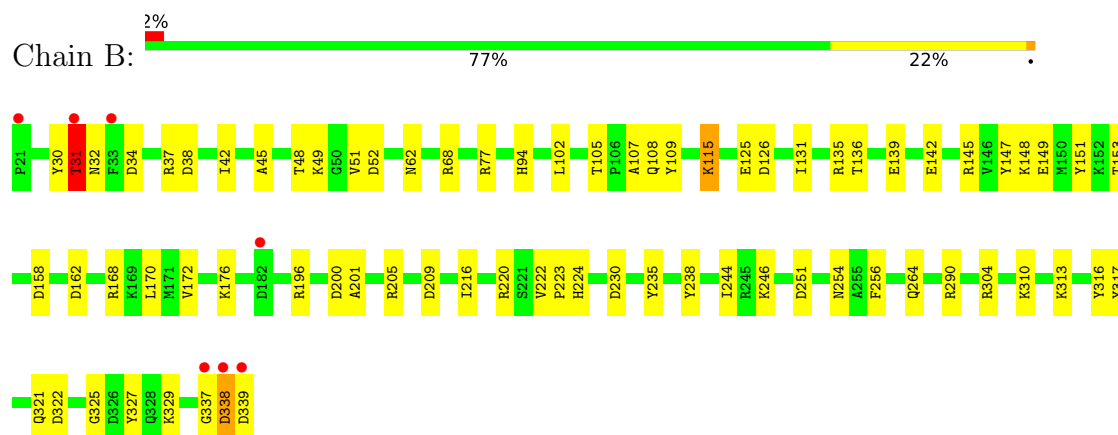
3 Residue-property plots

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: Annexin A2



• Molecule 1: Annexin A2



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	61.78Å 98.11Å 176.27Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	39.06 – 2.59 39.06 – 2.59	Depositor EDS
% Data completeness (in resolution range)	90.2 (39.06-2.59) 90.3 (39.06-2.59)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.09	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.32 (at 2.58Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.216 , 0.264 0.210 , 0.258	Depositor DCC
R_{free} test set	3091 reflections (10.02%)	wwPDB-VP
Wilson B-factor (Å ²)	39.0	Xtriage
Anisotropy	0.542	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 29.7	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	5350	wwPDB-VP
Average B, all atoms (Å ²)	44.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.91% 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

Bond lengths and bond angles in the following residue types are not validated in this section: CA

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	0.49	1/2597 (0.0%)	1.02	12/3485 (0.3%)
1	B	0.42	0/2597	0.89	3/3485 (0.1%)
All	All	0.46	1/5194 (0.0%)	0.96	15/6970 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	182	ASP	CA-CB	-5.28	1.45	1.53

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	182	ASP	N-CA-C	17.69	134.81	113.23
1	A	182	ASP	CA-CB-CG	-10.94	101.66	112.60
1	A	182	ASP	CB-CA-C	-8.13	97.68	111.26
1	A	181	GLU	CA-C-N	-6.93	112.87	123.47
1	A	181	GLU	C-N-CA	-6.93	112.87	123.47
1	B	216	ILE	N-CA-C	6.92	117.03	110.53
1	B	310	LYS	N-CA-C	6.35	118.28	111.36
1	A	183	GLY	N-CA-C	6.25	127.99	113.18
1	A	185	VAL	N-CA-C	6.15	117.00	108.89
1	B	338	ASP	N-CA-C	-5.55	105.84	113.56
1	A	182	ASP	N-CA-CB	-5.42	103.91	112.63
1	A	181	GLU	N-CA-C	5.26	122.00	110.80
1	A	336	GLY	CA-C-N	5.09	126.08	122.16
1	A	336	GLY	C-N-CA	5.09	126.08	122.16
1	A	203	VAL	N-CA-C	5.02	116.34	110.62

There are no chirality outliers.

There are no planarity outliers.

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	2562	0	2591	60	0
1	B	2562	0	2591	54	0
2	A	7	0	0	0	0
2	B	7	0	0	0	0
3	A	101	0	0	3	0
3	B	111	0	0	3	0
All	All	5350	0	5182	114	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 11.

All (114) 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:34:ASP:HB3	1:B:37:ARG:HH11	1.46	0.80
1:A:244:ILE:HD13	1:A:256:PHE:HB3	1.65	0.77
1:B:304:ARG:HH21	1:B:338:ASP:HB2	1.50	0.77
1:B:34:ASP:CB	1:B:37:ARG:HH11	1.99	0.76
1:B:105:THR:H	1:B:108:GLN:NE2	1.83	0.76
1:A:156:GLU:O	1:A:160:ILE:HG13	1.85	0.76
1:B:304:ARG:NH2	1:B:338:ASP:HB2	2.01	0.74
1:B:34:ASP:HB3	1:B:37:ARG:HG2	1.71	0.73
1:A:159:ILE:O	1:A:163:THR:HG23	1.88	0.73
1:A:115:LYS:HG2	1:A:151:TYR:CE2	2.25	0.71
1:B:31:THR:HG23	1:B:32:ASN:H	1.56	0.71
1:B:105:THR:H	1:B:108:GLN:HE21	1.37	0.70
1:A:28:LYS:H	1:A:28:LYS:CD	2.06	0.69
1:A:96:GLU:HG2	1:A:100:LEU:HD22	1.75	0.68
1:B:45:ALA:HB1	1:B:52:ASP:HB3	1.79	0.65
1:A:40:LEU:HD13	1:A:78:ARG:NH2	2.12	0.64
1:B:244:ILE:HD13	1:B:256:PHE:HB3	1.79	0.63
1:A:240:MET:HE3	1:A:240:MET:HA	1.79	0.62
1:A:53:GLU:H	1:A:53:GLU:CD	2.07	0.62
1:A:110:ASP:O	1:A:114:LEU:HB2	2.00	0.61
1:B:201:ALA:HB1	1:B:209:ASP:HB3	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:78:ARG:HB3	1:A:78:ARG:NH1	2.16	0.59
1:A:28:LYS:H	1:A:28:LYS:HD3	1.67	0.59
1:A:28:LYS:CD	1:A:28:LYS:N	2.66	0.58
1:B:125:GLU:HG2	1:B:251:ASP:OD1	2.03	0.58
1:B:338:ASP:HB3	3:B:411:HOH:O	2.03	0.58
1:B:222:VAL:HB	1:B:223:PRO:HD3	1.86	0.57
1:A:222:VAL:HG13	1:A:263:ILE:HG23	1.86	0.57
1:B:38:ASP:O	1:B:42:ILE:HG12	2.03	0.57
1:B:168:ARG:HD2	3:B:431:HOH:O	2.04	0.57
1:B:264:GLN:NE2	3:B:359:HOH:O	2.38	0.56
1:A:222:VAL:O	1:A:226:GLN:HG3	2.05	0.56
1:A:37:ARG:HG2	1:A:37:ARG:HH11	1.71	0.55
1:A:64:SER:OG	1:A:67:GLN:HG3	2.07	0.55
1:A:139:GLU:O	1:A:143:ILE:HG13	2.06	0.55
1:B:325:GLY:O	1:B:329:LYS:HG2	2.08	0.54
1:A:22:SER:HB3	3:A:430:HOH:O	2.08	0.53
1:A:199:TYR:CE2	1:A:204:LYS:HB2	2.44	0.53
1:B:34:ASP:CB	1:B:37:ARG:HG2	2.38	0.52
1:A:68:ARG:NH2	1:A:102:LEU:HD22	2.25	0.52
1:B:313:LYS:HD2	1:B:317:TYR:CE2	2.45	0.51
1:A:209:ASP:OD2	1:A:211:PRO:HD2	2.11	0.51
1:B:238:TYR:CE2	1:B:246:LYS:HE3	2.46	0.50
1:A:28:LYS:H	1:A:28:LYS:HD2	1.75	0.50
1:A:179:ARG:O	1:A:180:ALA:C	2.50	0.50
1:A:339:ASP:HB2	3:A:362:HOH:O	2.11	0.50
1:B:196:ARG:HG2	1:B:235:TYR:CZ	2.47	0.49
1:A:38:ASP:O	1:A:42:ILE:HG12	2.12	0.49
1:B:115:LYS:HG2	1:B:147:TYR:OH	2.12	0.49
1:B:77:ARG:HA	1:B:77:ARG:HE	1.76	0.49
1:A:338:ASP:O	1:A:339:ASP:OXT	2.31	0.48
1:A:148:LYS:HG3	1:A:153:THR:N	2.28	0.48
1:B:220:ARG:HB3	1:B:224:HIS:HD2	1.77	0.48
1:B:109:TYR:OH	1:B:290:ARG:HA	2.13	0.48
1:A:224:HIS:O	1:A:228:VAL:HG23	2.14	0.48
1:A:78:ARG:HH11	1:A:78:ARG:CB	2.26	0.47
1:A:179:ARG:C	1:A:180:ALA:O	2.56	0.47
1:B:34:ASP:CG	1:B:37:ARG:HH11	2.22	0.47
1:A:242:GLU:OE2	1:A:242:GLU:HA	2.14	0.47
1:A:288:LEU:O	1:A:292:MET:HG2	2.14	0.47
1:B:34:ASP:CB	1:B:37:ARG:NH1	2.73	0.47
1:B:48:THR:HG22	1:B:49:LYS:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:181:GLU:O	1:A:182:ASP:CB	2.58	0.46
1:A:266:LYS:HB3	1:A:267:PRO:HD3	1.98	0.46
1:B:196:ARG:HG2	1:B:235:TYR:CE2	2.50	0.46
1:A:78:ARG:HB3	1:A:78:ARG:HH11	1.80	0.46
1:B:77:ARG:HA	1:B:77:ARG:NE	2.30	0.46
1:B:316:TYR:CD2	1:B:339:ASP:HA	2.51	0.46
1:B:131:ILE:O	1:B:135:ARG:HG2	2.16	0.45
1:B:238:TYR:CZ	1:B:246:LYS:HE3	2.51	0.45
1:B:37:ARG:HG3	1:B:38:ASP:N	2.31	0.45
1:B:45:ALA:CB	1:B:52:ASP:HB3	2.45	0.45
1:A:24:TYR:CE2	1:A:302:LYS:HE3	2.51	0.45
1:B:30:TYR:O	1:B:31:THR:C	2.59	0.45
1:B:94:HIS:HB3	1:B:327:TYR:CE1	2.52	0.45
1:B:107:ALA:HB2	1:B:142:GLU:HG3	1.99	0.45
1:A:114:LEU:HD12	1:A:114:LEU:HA	1.81	0.45
1:A:105:THR:O	1:A:106:PRO:C	2.60	0.45
1:A:304:ARG:HH21	1:A:338:ASP:HB2	1.81	0.45
1:A:24:TYR:CD2	1:A:302:LYS:HE3	2.52	0.44
1:A:48:THR:HG22	1:A:49:LYS:N	2.31	0.44
1:B:172:VAL:O	1:B:176:LYS:HG2	2.18	0.44
1:A:292:MET:O	1:A:296:SER:HB3	2.17	0.44
1:B:145:ARG:O	1:B:149:GLU:HG3	2.17	0.44
1:B:200:ASP:O	1:B:205:ARG:HG2	2.18	0.43
1:B:170:LEU:HD12	1:B:170:LEU:O	2.18	0.43
1:B:338:ASP:O	1:B:339:ASP:C	2.61	0.43
1:B:148:LYS:HA	1:B:153:THR:O	2.18	0.43
1:B:37:ARG:HH11	1:B:37:ARG:HG2	1.82	0.43
1:B:34:ASP:HB3	1:B:37:ARG:CG	2.43	0.43
1:B:317:TYR:O	1:B:321:GLN:HG2	2.18	0.43
1:A:151:TYR:O	1:A:153:THR:HG22	2.18	0.42
1:B:115:LYS:HG3	1:B:151:TYR:CE2	2.54	0.42
1:A:242:GLU:O	1:A:246:LYS:HG3	2.19	0.42
1:B:37:ARG:HG3	1:B:38:ASP:H	1.84	0.42
1:A:309:ARG:HD3	3:A:417:HOH:O	2.19	0.42
1:A:96:GLU:O	1:A:100:LEU:HB2	2.20	0.42
1:A:135:ARG:HB3	1:A:140:LEU:HG	2.01	0.42
1:A:181:GLU:O	1:A:181:GLU:CG	2.65	0.42
1:A:295:ARG:HH21	1:A:299:ASP:CG	2.27	0.42
1:B:136:THR:OG1	1:B:139:GLU:HG3	2.20	0.42
1:A:50:GLY:O	1:A:51:VAL:HB	2.20	0.41
1:B:321:GLN:NE2	1:B:321:GLN:HA	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:337:GLY:C	1:B:339:ASP:H	2.26	0.41
1:A:260:VAL:O	1:A:264:GLN:HG3	2.21	0.41
1:A:64:SER:O	1:A:68:ARG:HG3	2.21	0.41
1:B:68:ARG:HD2	1:B:102:LEU:O	2.20	0.41
1:A:45:ALA:HB1	1:A:52:ASP:HB3	2.02	0.41
1:A:148:LYS:C	1:A:150:MET:H	2.27	0.41
1:A:34:ASP:HB3	1:A:37:ARG:HB3	2.02	0.41
1:A:28:LYS:N	1:A:28:LYS:HD2	2.34	0.40
1:A:110:ASP:CG	1:A:135:ARG:HH21	2.28	0.40
1:A:53:GLU:CD	1:A:53:GLU:N	2.78	0.40
1:A:76:GLN:CD	1:A:76:GLN:C	2.89	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	317/319 (99%)	295 (93%)	20 (6%)	2 (1%)	21	42
1	B	317/319 (99%)	302 (95%)	13 (4%)	2 (1%)	21	42
All	All	634/638 (99%)	597 (94%)	33 (5%)	4 (1%)	21	42

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	51	VAL
1	A	183	GLY
1	B	31	THR
1	B	51	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	280/280 (100%)	269 (96%)	11 (4%)	28	55
1	B	280/280 (100%)	271 (97%)	9 (3%)	34	62
All	All	560/560 (100%)	540 (96%)	20 (4%)	31	58

All (20) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	22	SER
1	A	28	LYS
1	A	85	SER
1	A	100	LEU
1	A	114	LEU
1	A	141	GLN
1	A	162	ASP
1	A	182	ASP
1	A	238	TYR
1	A	284	ARG
1	A	322	ASP
1	B	31	THR
1	B	62	ASN
1	B	115	LYS
1	B	126	ASP
1	B	158	ASP
1	B	162	ASP
1	B	230	ASP
1	B	254	ASN
1	B	322	ASP

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (12) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	58	ASN
1	A	62	ASN

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Mol	Chain	Res	Type
1	A	138	GLN
1	A	254	ASN
1	B	76	GLN
1	B	108	GLN
1	B	141	GLN
1	B	226	GLN
1	B	254	ASN
1	B	258	ASN
1	B	264	GLN
1	B	321	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 14 ligands modelled in this entry, 14 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

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 [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, 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	319/319 (100%)	0.03	12 (3%) 44 38	25, 44, 77, 96	0
1	B	319/319 (100%)	-0.15	7 (2%) 62 57	23, 39, 67, 83	0
All	All	638/638 (100%)	-0.06	19 (2%) 52 47	23, 41, 72, 96	0

All (19) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	21	PRO	5.6
1	A	337	GLY	4.2
1	B	21	PRO	3.9
1	B	337	GLY	3.7
1	A	22	SER	3.7
1	A	339	ASP	3.6
1	A	184	SER	3.4
1	A	183	GLY	3.3
1	A	338	ASP	3.1
1	A	182	ASP	2.9
1	B	339	ASP	2.9
1	A	180	ALA	2.6
1	B	338	ASP	2.5
1	A	121	LEU	2.5
1	B	31	THR	2.5
1	B	182	ASP	2.4
1	A	23	ALA	2.2
1	B	33	PHE	2.2
1	A	31	THR	2.2

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](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	CA	A	341	1/1	0.95	0.07	50,50,50,50	0
2	CA	A	344	1/1	0.95	0.06	58,58,58,58	0
2	CA	A	346	1/1	0.95	0.08	56,56,56,56	0
2	CA	B	341	1/1	0.96	0.06	58,58,58,58	0
2	CA	B	344	1/1	0.96	0.05	61,61,61,61	0
2	CA	A	342	1/1	0.97	0.06	60,60,60,60	0
2	CA	B	346	1/1	0.97	0.06	48,48,48,48	0
2	CA	B	343	1/1	0.98	0.02	37,37,37,37	0
2	CA	B	340	1/1	0.98	0.05	61,61,61,61	0
2	CA	B	345	1/1	0.98	0.06	30,30,30,30	0
2	CA	B	342	1/1	0.98	0.06	47,47,47,47	0
2	CA	A	345	1/1	0.99	0.02	30,30,30,30	0
2	CA	A	343	1/1	0.99	0.02	52,52,52,52	0
2	CA	A	340	1/1	0.99	0.03	51,51,51,51	0

6.5 Other polymers [i](#)

There are no such residues in this entry.