



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 8, 2026 – 05:10 PM UTC

PDB ID : 2NNY / pdb_00002nny
Title : Crystal structure of the Ets1 dimer DNA complex.
Authors : Lamber, E.P.; Kachalova, G.S.; Wilmanns, M.
Deposited on : 2006-10-24
Resolution : 2.58 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

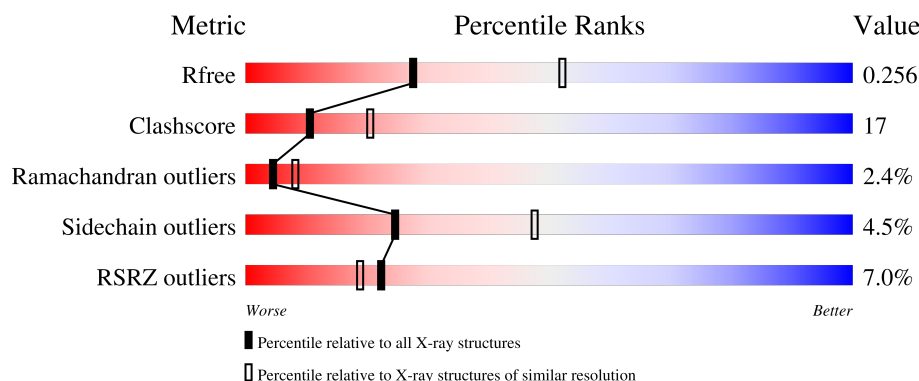
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.58 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	4770 (2.60-2.56)
Clashscore	190562	5124 (2.60-2.56)
Ramachandran outliers	187476	5046 (2.60-2.56)
Sidechain outliers	187428	5046 (2.60-2.56)
RSRZ outliers	180081	4770 (2.60-2.56)

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	C	23	52% 43% .
2	D	23	4% 65% 30% .
3	A	171	6% 47% 25% . 25%
3	B	171	6% 46% 26% .. 25%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3060 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 DNA chain called 5'-D(*T*AP*GP*AP*CP*AP*GP*GP*AP*AP*GP*CP*AP*CP*TP*TP*CP*CP*TP*GP*GP*AP*G)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	C	22	Total	C	N	O	P	0	0	0
			453	215	91	126	21			

- Molecule 2 is a DNA chain called 5'-D(*A*CP*TP*CP*CP*AP*GP*GP*AP*AP*GP*TP*GP*CP*TP*TP*CP*CP*TP*GP*TP*CP*T)-3'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	D	22	Total	C	N	O	P	0	0	0
			443	213	75	134	21			

- Molecule 3 is a protein called C-ets-1 protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	A	129	Total	C	N	O	S	0	0	0
			1059	681	185	191	2			
3	B	129	Total	C	N	O	S	0	0	0
			1059	681	185	191	2			

There are 22 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	271	MET	-	expression tag	UNP P14921
A	272	LYS	-	expression tag	UNP P14921
A	273	HIS	-	expression tag	UNP P14921
A	274	HIS	-	expression tag	UNP P14921
A	275	HIS	-	expression tag	UNP P14921
A	276	HIS	-	expression tag	UNP P14921
A	277	HIS	-	expression tag	UNP P14921
A	278	PRO	-	expression tag	UNP P14921
A	279	MET	-	expression tag	UNP P14921
A	350	SER	CYS	engineered mutation	UNP P14921

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Chain	Residue	Modelled	Actual	Comment	Reference
A	416	SER	CYS	engineered mutation	UNP P14921
B	271	MET	-	expression tag	UNP P14921
B	272	LYS	-	expression tag	UNP P14921
B	273	HIS	-	expression tag	UNP P14921
B	274	HIS	-	expression tag	UNP P14921
B	275	HIS	-	expression tag	UNP P14921
B	276	HIS	-	expression tag	UNP P14921
B	277	HIS	-	expression tag	UNP P14921
B	278	PRO	-	expression tag	UNP P14921
B	279	MET	-	expression tag	UNP P14921
B	350	SER	CYS	engineered mutation	UNP P14921
B	416	SER	CYS	engineered mutation	UNP P14921

- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	C	9	Total O 9 9	0	0
4	D	6	Total O 6 6	0	0
4	A	16	Total O 16 16	0	0
4	B	15	Total O 15 15	0	0

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.

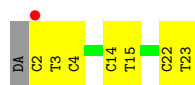
- Molecule 1: 5'-D(*T*AP*GP*AP*CP*AP*GP*GP*AP*AP*GP*CP*AP*CP*TP*TP*CP*CP*TP*GP*GP*AP*G)-3'

Chain C: 

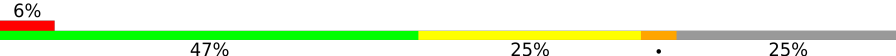


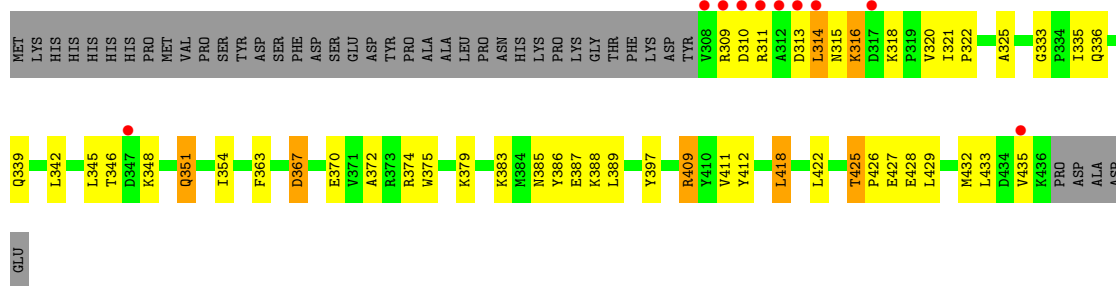
- Molecule 2: 5'-D(*A*CP*TP*CP*CP*AP*GP*GP*AP*AP*GP*TP*GP*CP*TP*TP*CP*CP*TP*GP*TP*CP*T)-3'

Chain D: 



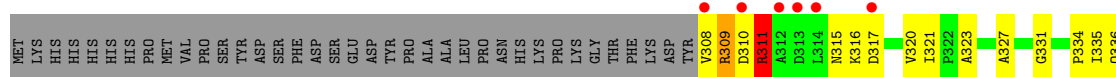
- Molecule 3: C-ets-1 protein

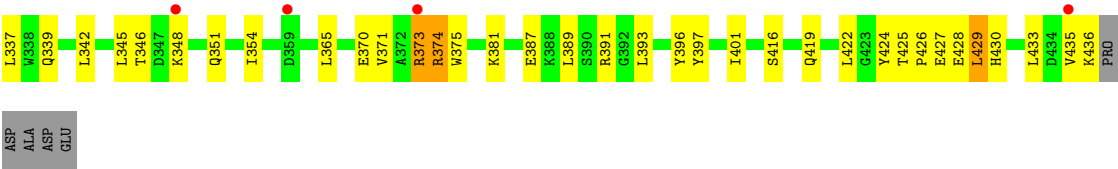
Chain A: 



- Molecule 3: C-ets-1 protein

Chain B: 





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, α , β , γ	93.56Å 100.84Å 69.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.69 – 2.58 19.69 – 2.58	Depositor EDS
% Data completeness (in resolution range)	(Not available) (19.69-2.58) 95.7 (19.69-2.58)	Depositor EDS
R_{merge}	0.08	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.57 (at 2.59Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.235 , 0.271 0.235 , 0.256	Depositor DCC
R_{free} test set	1051 reflections (4.91%)	wwPDB-VP
Wilson B-factor (Å ²)	66.4	Xtriage
Anisotropy	0.642	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.25 , 33.8	EDS
L-test for twinning ²	$\langle L \rangle = 0.48$, $\langle L^2 \rangle = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	3060	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 19.10% 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	C	0.30	0/510	0.67	0/786
2	D	0.32	0/494	0.76	0/760
3	A	0.42	0/1086	0.89	3/1465 (0.2%)
3	B	0.45	0/1086	1.01	7/1465 (0.5%)
All	All	0.40	0/3176	0.88	10/4476 (0.2%)

There are no bond length outliers.

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	B	416	SER	N-CA-C	-9.05	98.59	110.53
3	B	309	ARG	N-CA-C	-7.88	102.30	112.23
3	B	391	ARG	N-CA-C	-6.19	104.61	111.36
3	B	311	ARG	N-CA-C	-5.80	105.52	112.59
3	A	367	ASP	CA-C-N	5.66	126.92	119.84
3	A	367	ASP	C-N-CA	5.66	126.92	119.84
3	B	315	ASN	N-CA-C	-5.63	103.77	110.41
3	A	386	TYR	N-CA-C	5.34	117.10	111.28
3	B	401	ILE	N-CA-C	-5.24	107.72	112.96
3	B	317	ASP	N-CA-C	5.03	117.16	109.62

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	C	453	0	247	9	0
2	D	443	0	251	10	0
3	A	1059	0	1060	43	0
3	B	1059	0	1060	38	0
4	A	16	0	0	3	0
4	B	15	0	0	1	0
4	C	9	0	0	0	0
4	D	6	0	0	0	0
All	All	3060	0	2618	94	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 17.

All (94) 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)
3:A:425:THR:HB	3:A:428:GLU:HG3	1.45	0.98
3:A:316:LYS:HD3	3:A:318:LYS:HE3	1.49	0.94
3:A:418:LEU:HD22	3:A:422:LEU:HG	1.56	0.87
1:C:21:DG:H1	2:D:4:DC:H42	0.92	0.87
3:A:314:LEU:HG	3:A:315:ASN:H	1.41	0.85
1:C:21:DG:H1	2:D:4:DC:N4	1.75	0.82
3:B:425:THR:HB	3:B:428:GLU:HG3	1.63	0.79
2:D:14:DC:H2'	2:D:15:DT:H71	1.68	0.76
3:B:309:ARG:C	3:B:311:ARG:H	1.97	0.73
3:A:425:THR:HG22	3:A:427:GLU:H	1.55	0.72
3:B:321:ILE:HD13	3:B:422:LEU:HD13	1.75	0.69
3:A:336:GLN:H	3:A:339:GLN:HE21	1.40	0.69
1:C:2:DA:H2''	1:C:3:DG:C8	2.29	0.68
3:A:314:LEU:HG	3:A:315:ASN:N	2.08	0.68
3:A:385:ASN:HD21	3:A:388:LYS:HD3	1.61	0.66
1:C:23:DG:H1	2:D:2:DC:H42	1.44	0.65
3:A:336:GLN:H	3:A:339:GLN:NE2	1.99	0.61
3:A:348:LYS:HA	3:A:351:GLN:HE21	1.66	0.60
3:B:425:THR:HG22	3:B:427:GLU:H	1.67	0.60
3:B:345:LEU:HD21	3:B:354:ILE:HG12	1.85	0.59
2:D:2:DC:H2'	2:D:3:DT:H72	1.84	0.59
2:D:22:DC:H4'	2:D:23:DT:OP1	2.03	0.59
3:B:321:ILE:CD1	3:B:422:LEU:HD13	2.32	0.59
3:B:435:VAL:O	3:B:436:LYS:HB2	2.01	0.59
3:A:385:ASN:ND2	3:A:388:LYS:HD3	2.18	0.58
3:B:374:ARG:HG2	3:B:374:ARG:HH11	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:425:THR:HG22	3:A:427:GLU:N	2.19	0.56
3:A:314:LEU:CG	3:A:315:ASN:H	2.08	0.56
3:B:327:ALA:O	3:B:331:GLY:N	2.39	0.56
3:A:425:THR:HG23	3:A:426:PRO:HD2	1.87	0.55
3:B:320:VAL:HB	3:B:346:THR:HB	1.89	0.55
3:B:311:ARG:HG2	3:B:311:ARG:O	2.07	0.54
3:A:321:ILE:CD1	3:A:422:LEU:HD13	2.37	0.54
3:A:309:ARG:O	3:A:311:ARG:HG3	2.07	0.54
3:A:426:PRO:HG2	3:A:427:GLU:OE2	2.07	0.54
3:A:313:ASP:O	3:A:313:ASP:OD1	2.27	0.53
3:A:320:VAL:HB	3:A:346:THR:HB	1.90	0.53
3:A:321:ILE:HD13	3:A:422:LEU:HD22	1.91	0.53
1:C:14:DC:H2'	1:C:15:DT:H72	1.91	0.52
3:A:389:LEU:C	3:A:389:LEU:HD23	2.35	0.52
3:A:322:PRO:HG2	3:A:325:ALA:HB3	1.92	0.52
3:B:389:LEU:C	3:B:389:LEU:HD23	2.35	0.52
3:B:342:LEU:HD21	3:B:422:LEU:HD11	1.93	0.51
3:A:309:ARG:O	3:A:311:ARG:N	2.45	0.49
3:B:308:VAL:O	3:B:311:ARG:HB3	2.12	0.49
2:D:2:DC:H2'	2:D:3:DT:C7	2.43	0.49
3:B:311:ARG:HD3	3:B:311:ARG:C	2.38	0.49
3:B:370:GLU:OE2	3:B:374:ARG:NE	2.46	0.48
3:B:374:ARG:HG2	3:B:374:ARG:NH1	2.27	0.48
3:B:419:GLN:HG3	3:B:424:TYR:O	2.13	0.48
3:A:335:ILE:HG22	4:A:448:HOH:O	2.14	0.48
3:A:409:ARG:O	3:A:411:VAL:HG23	2.13	0.48
3:A:435:VAL:HG11	4:A:446:HOH:O	2.14	0.48
3:B:309:ARG:C	3:B:311:ARG:N	2.63	0.48
3:B:348:LYS:O	3:B:351:GLN:HG3	2.13	0.48
3:B:336:GLN:H	3:B:339:GLN:NE2	2.11	0.47
3:A:425:THR:HB	3:A:428:GLU:CG	2.31	0.47
3:B:425:THR:HG23	3:B:426:PRO:HD2	1.95	0.47
3:A:433:LEU:HD12	3:A:433:LEU:N	2.29	0.47
2:D:14:DC:H2'	2:D:15:DT:C7	2.41	0.47
3:A:348:LYS:HD3	3:A:351:GLN:NE2	2.30	0.46
3:B:430:HIS:HA	3:B:435:VAL:CG2	2.45	0.46
3:B:311:ARG:O	3:B:311:ARG:CG	2.63	0.46
3:A:333:GLY:HA2	3:B:381:LYS:HD3	1.98	0.46
3:B:365:LEU:HG	3:B:371:VAL:HG21	1.97	0.46
3:A:370:GLU:O	3:A:374:ARG:HG3	2.15	0.45
3:A:397:TYR:HB2	4:A:442:HOH:O	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:A:428:GLU:O	3:A:432:MET:HG3	2.17	0.45
3:A:345:LEU:HD21	3:A:354:ILE:HG12	1.98	0.44
2:D:2:DC:H5'	2:D:2:DC:H6	1.82	0.44
3:A:316:LYS:HD3	3:A:318:LYS:CE	2.33	0.44
1:C:4:DA:H2''	1:C:5:DC:O5'	2.18	0.44
3:B:393:LEU:O	3:B:396:TYR:HB2	2.17	0.44
3:B:430:HIS:O	3:B:433:LEU:O	2.34	0.44
3:A:383:LYS:O	3:A:388:LYS:NZ	2.49	0.44
3:B:336:GLN:H	3:B:339:GLN:HE21	1.66	0.43
1:C:17:DC:H1'	1:C:18:DC:H5'	2.00	0.43
3:A:309:ARG:HD2	3:A:309:ARG:C	2.44	0.43
3:B:323:ALA:HB1	3:B:335:ILE:HG13	2.00	0.43
3:A:372:ALA:HB1	3:A:385:ASN:HA	2.00	0.43
3:B:424:TYR:HB3	3:B:429:LEU:HD13	2.01	0.43
3:B:373:ARG:NH1	3:B:373:ARG:HB3	2.34	0.43
3:B:345:LEU:CD2	3:B:354:ILE:HG12	2.47	0.42
3:A:342:LEU:HD21	3:A:422:LEU:HD11	2.01	0.42
3:A:379:LYS:CE	3:B:334:PRO:HG3	2.49	0.42
3:A:367:ASP:OD2	3:A:370:GLU:HB2	2.20	0.42
3:B:427:GLU:O	3:B:430:HIS:HB2	2.19	0.42
1:C:23:DG:H1	2:D:2:DC:N4	2.14	0.42
3:A:363:PHE:CZ	3:A:412:TYR:HB2	2.55	0.41
3:B:397:TYR:HB2	4:B:443:HOH:O	2.21	0.41
3:A:375:TRP:CE3	3:A:375:TRP:HA	2.56	0.41
3:B:337:LEU:HD13	3:B:375:TRP:CE2	2.56	0.41
1:C:14:DC:H2'	1:C:15:DT:C7	2.52	0.40
3:B:309:ARG:O	3:B:311:ARG:N	2.46	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	
3	A	127/171 (74%)	115 (91%)	8 (6%)	4 (3%)	3	5
3	B	127/171 (74%)	120 (94%)	5 (4%)	2 (2%)	7	15
All	All	254/342 (74%)	235 (92%)	13 (5%)	6 (2%)	4	8

All (6) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
3	A	310	ASP
3	A	316	LYS
3	A	314	LEU
3	B	316	LYS
3	A	351	GLN
3	B	310	ASP

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	
3	A	112/150 (75%)	107 (96%)	5 (4%)	24	47
3	B	112/150 (75%)	107 (96%)	5 (4%)	24	47
All	All	224/300 (75%)	214 (96%)	10 (4%)	24	47

All (10) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	A	387	GLU
3	A	409	ARG
3	A	418	LEU
3	A	425	THR
3	A	429	LEU
3	B	311	ARG
3	B	373	ARG
3	B	374	ARG
3	B	387	GLU
3	B	429	LEU

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

Mol	Chain	Res	Type
3	A	315	ASN
3	A	339	GLN
3	A	351	GLN
3	A	380	ASN
3	A	430	HIS
3	B	339	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](#)

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, 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	C	22/23 (95%)	0.05	0 100 100	50, 65, 80, 83	0
2	D	22/23 (95%)	0.17	1 (4%) 38 34	50, 63, 86, 91	0
3	A	129/171 (75%)	0.58	10 (7%) 19 16	45, 64, 88, 112	12 (9%)
3	B	129/171 (75%)	0.38	10 (7%) 19 16	35, 63, 105, 123	2 (1%)
All	All	302/388 (77%)	0.43	21 (6%) 22 19	35, 64, 94, 123	14 (4%)

All (21) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	B	348	LYS	6.6
3	A	312	ALA	6.0
3	A	310	ASP	5.0
3	A	311	ARG	4.4
3	A	435	VAL	4.3
3	A	308	VAL	3.9
3	A	314	LEU	3.8
3	B	310	ASP	3.5
3	B	308	VAL	3.5
3	B	313	ASP	3.4
3	A	347	ASP	3.1
3	B	435	VAL	2.7
3	B	314	LEU	2.6
2	D	2	DC	2.4
3	B	312	ALA	2.4
3	B	359	ASP	2.4
3	B	373	ARG	2.3
3	A	309	ARG	2.3
3	B	317	ASP	2.3
3	A	317	ASP	2.1
3	A	313	ASP	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.