



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 7, 2026 – 03:22 AM UTC

PDB ID : 1SJ7 / pdb_00001sj7
Title : Crystal Structure of Talin Rod 482-655
Authors : Papagrigoriou, E.; Gingras, A.R.; Barsukov, I.L.; Critchley, D.R.; Emsley, J.
Deposited on : 2004-03-03
Resolution : 2.50 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

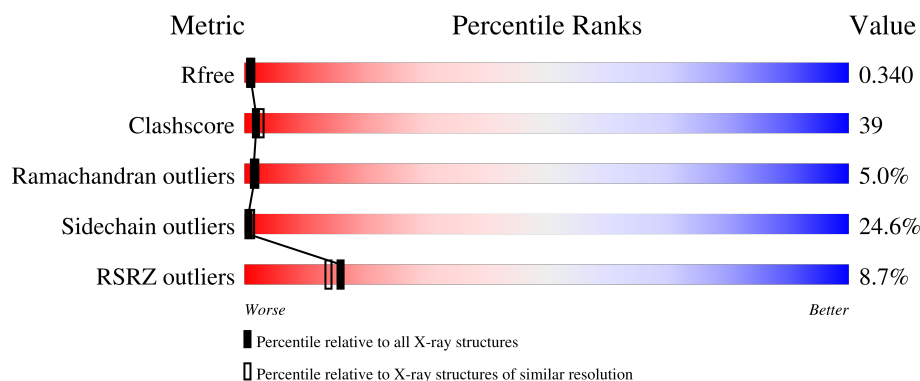
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.50 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	5829 (2.50-2.50)
Clashscore	190562	6492 (2.50-2.50)
Ramachandran outliers	187476	6378 (2.50-2.50)
Sidechain outliers	187428	6380 (2.50-2.50)
RSRZ outliers	180081	5833 (2.50-2.50)

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	174	7% 34% 39% 20% • •
1	B	174	9% 36% 44% 15% • •
1	C	174	9% 38% 34% 20% • 5%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 3731 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 Talin 1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	167	Total	C	N	O	S	0	0	0
			1195	727	214	252	2			
1	B	170	Total	C	N	O	S	0	0	0
			1213	739	217	255	2			
1	C	166	Total	C	N	O	S	0	0	0
			1186	720	213	251	2			

- Molecule 2 is PLATINUM (II) ION (CCD ID: PT) (formula: Pt).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	2	Total	Pt	0	0
			2	2		
2	B	3	Total	Pt	0	0
			3	3		
2	C	2	Total	Pt	0	0
			2	2		

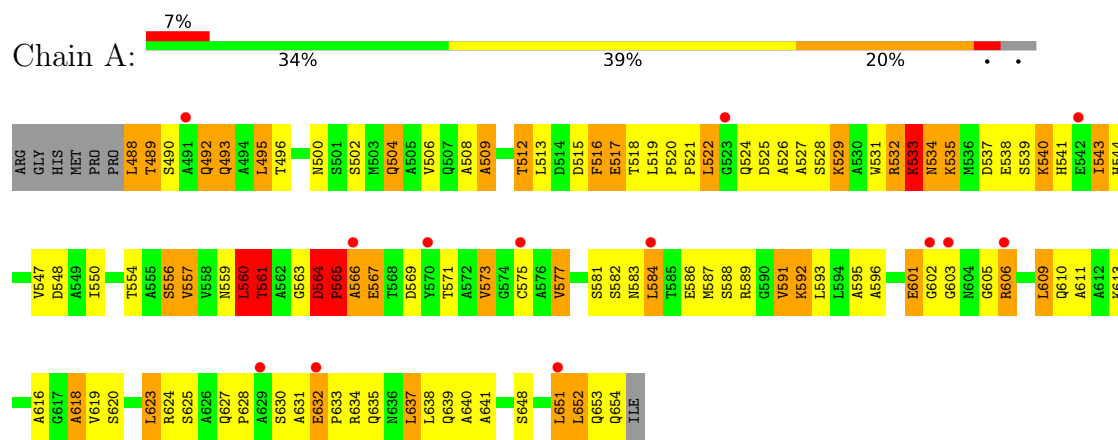
- Molecule 3 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	49	Total	O	0	0
			49	49		
3	B	42	Total	O	0	0
			42	42		
3	C	39	Total	O	0	0
			39	39		

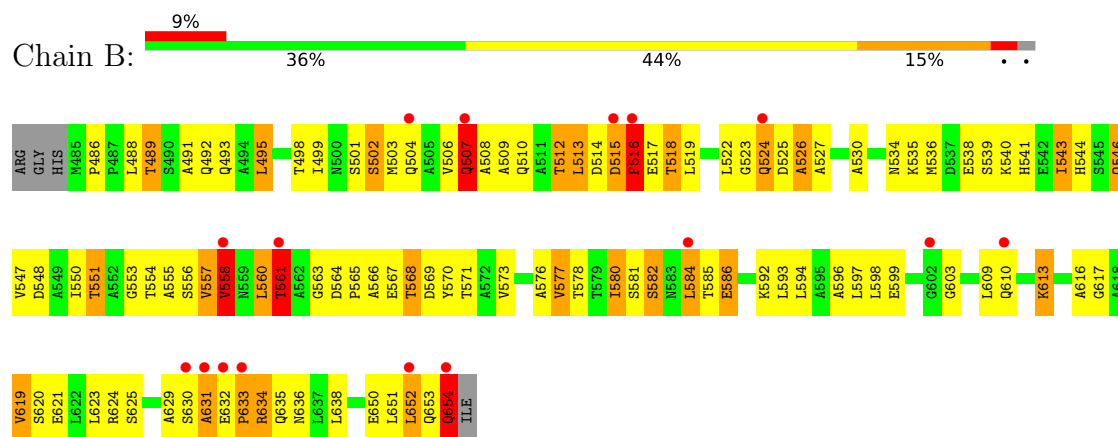
3 Residue-property plots [i](#)

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.

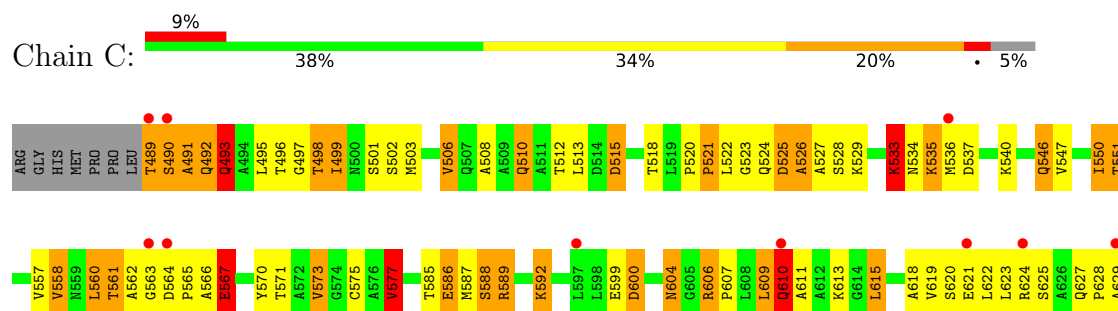
• Molecule 1: Talin 1



• Molecule 1: Talin 1



• Molecule 1: Talin 1





4 Data and refinement statistics

Property	Value	Source
Space group	P 32 2 1	Depositor
Cell constants a, b, c, α , β , γ	95.66Å 95.66Å 115.22Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	28.16 – 2.50 28.16 – 2.50	Depositor EDS
% Data completeness (in resolution range)	99.9 (28.16-2.50) 99.8 (28.16-2.50)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.00 (at 2.39Å)	Xtriage
Refinement program	REFMAC 5.0	Depositor
R, R_{free}	0.241 , 0.286 0.322 , 0.340	Depositor DCC
R_{free} test set	1122 reflections (4.63%)	wwPDB-VP
Wilson B-factor (Å ²)	52.2	Xtriage
Anisotropy	0.367	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 9.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	0.025 for -h,-k,l	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	3731	wwPDB-VP
Average B, all atoms (Å ²)	38.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.61% 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: PT

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	1.66	13/1206 (1.1%)	1.71	26/1640 (1.6%)
1	B	1.55	8/1226 (0.7%)	1.71	21/1670 (1.3%)
1	C	1.63	15/1197 (1.3%)	1.70	18/1628 (1.1%)
All	All	1.61	36/3629 (1.0%)	1.71	65/4938 (1.3%)

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	557	VAL	CA-CB	8.17	1.64	1.54
1	A	532	ARG	C-O	-7.58	1.15	1.24
1	C	654	GLN	CA-C	-7.04	1.38	1.52
1	A	515	ASP	CA-C	6.90	1.61	1.52
1	C	508	ALA	CA-CB	-6.55	1.43	1.53
1	C	521	PRO	C-O	-6.54	1.16	1.23
1	C	644	VAL	C-O	-6.50	1.16	1.24
1	B	530	ALA	CA-CB	6.48	1.63	1.53
1	C	611	ALA	CA-CB	-6.39	1.43	1.53
1	B	650	GLU	C-O	-6.30	1.16	1.24
1	A	618	ALA	C-O	-6.29	1.16	1.24
1	A	641	ALA	CA-CB	-6.26	1.43	1.53
1	B	561	THR	N-CA	-6.08	1.38	1.46
1	C	558	VAL	CA-CB	5.99	1.61	1.54
1	A	640	ALA	CA-CB	5.98	1.62	1.53
1	C	588	SER	CA-C	-5.81	1.45	1.52
1	C	535	LYS	CA-C	-5.68	1.45	1.52
1	A	538	GLU	CD-OE2	5.58	1.35	1.25
1	B	561	THR	CA-CB	-5.57	1.44	1.53
1	B	654	GLN	CG-CD	5.56	1.66	1.52
1	A	616	ALA	CA-CB	5.54	1.61	1.53
1	A	611	ALA	CA-CB	-5.54	1.44	1.53
1	A	595	ALA	CA-C	-5.44	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	584	LEU	CA-C	5.36	1.59	1.52
1	C	610	GLN	CA-C	-5.36	1.46	1.52
1	A	595	ALA	CA-CB	-5.34	1.45	1.53
1	C	641	ALA	CA-CB	-5.32	1.45	1.53
1	B	530	ALA	CA-C	-5.30	1.46	1.52
1	A	587	MET	SD-CE	-5.28	1.66	1.79
1	C	600	ASP	C-O	-5.22	1.18	1.24
1	C	535	LYS	C-O	-5.20	1.18	1.24
1	C	651	LEU	C-O	-5.18	1.18	1.24
1	B	543	ILE	CA-CB	-5.13	1.48	1.54
1	A	637	LEU	CA-C	5.06	1.59	1.52
1	C	640	ALA	C-O	-5.05	1.18	1.24
1	C	589	ARG	C-O	-5.03	1.18	1.24

All (65) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	492	GLN	N-CA-C	-9.88	101.22	113.18
1	A	544	HIS	N-CA-C	-9.33	101.19	111.36
1	B	613	LYS	N-CA-C	-8.71	102.43	113.23
1	A	517	GLU	N-CA-C	-7.77	100.06	110.55
1	B	634	ARG	N-CA-C	-7.61	103.10	112.38
1	C	493	GLN	N-CA-C	7.49	121.69	107.75
1	A	561	THR	OG1-CB-CG2	-7.24	94.81	109.30
1	A	522	LEU	N-CA-C	-7.13	99.42	109.69
1	C	577	VAL	N-CA-C	-7.06	103.59	110.72
1	C	550	ILE	N-CA-C	-6.96	104.20	111.58
1	C	558	VAL	N-CA-CB	6.94	119.98	110.54
1	B	516	PHE	N-CA-C	-6.87	96.16	110.80
1	C	567	GLU	N-CA-C	-6.84	104.84	112.57
1	C	515	ASP	N-CA-C	6.80	120.60	109.85
1	C	606	ARG	CG-CD-NE	-6.61	97.46	112.00
1	B	631	ALA	N-CA-C	-6.57	106.47	114.75
1	C	546	GLN	N-CA-C	-6.54	104.34	112.90
1	C	529	LYS	N-CA-C	-6.52	104.01	112.23
1	C	604	ASN	CA-C-N	-6.51	108.64	121.41
1	C	604	ASN	C-N-CA	-6.51	108.64	121.41
1	A	582	SER	N-CA-C	-6.51	104.27	111.36
1	A	639	GLN	N-CA-C	-6.48	104.31	111.82
1	C	510	GLN	N-CA-C	-6.37	104.43	111.82
1	C	649	GLY	N-CA-C	-6.36	104.84	113.37
1	C	527	ALA	N-CA-C	-6.35	104.35	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	530	ALA	N-CA-C	-6.31	104.33	111.14
1	A	489	THR	N-CA-C	6.29	119.39	110.14
1	B	498	THR	N-CA-C	-6.29	104.35	111.14
1	A	573	VAL	N-CA-CB	6.29	117.91	110.55
1	A	624	ARG	N-CA-C	-6.26	104.08	111.03
1	B	502	SER	N-CA-C	-6.25	104.54	111.36
1	C	503	MET	N-CA-C	-6.21	104.59	111.36
1	B	619	VAL	N-CA-C	-6.16	104.34	110.62
1	B	558	VAL	N-CA-C	6.05	116.23	110.42
1	B	585	THR	N-CA-C	-5.91	104.53	110.97
1	B	507	GLN	N-CA-C	-5.85	104.81	111.07
1	A	516	PHE	CA-C-O	-5.84	115.23	121.94
1	A	573	VAL	CA-C-N	5.80	126.55	119.99
1	A	573	VAL	C-N-CA	5.80	126.55	119.99
1	B	554	THR	N-CA-C	-5.80	104.96	111.28
1	A	595	ALA	N-CA-C	-5.75	105.01	111.28
1	A	529	LYS	N-CA-C	5.74	117.54	111.28
1	B	625	SER	CA-C-N	-5.65	113.73	122.49
1	B	625	SER	C-N-CA	-5.65	113.73	122.49
1	A	515	ASP	N-CA-C	5.59	117.56	109.07
1	B	486	PRO	N-CA-C	5.53	117.45	110.70
1	B	550	ILE	N-CA-C	5.47	116.20	110.62
1	A	560	LEU	N-CA-C	-5.47	106.11	112.89
1	B	557	VAL	N-CA-C	-5.41	105.44	110.53
1	A	583	ASN	N-CA-C	5.40	117.92	111.71
1	A	565	PRO	N-CD-CG	-5.37	95.14	103.20
1	A	554	THR	N-CA-C	-5.35	105.35	111.07
1	C	498	THR	N-CA-C	-5.30	104.75	111.11
1	B	653	GLN	N-CA-C	-5.29	106.66	113.01
1	A	533	LYS	N-CA-C	5.28	117.45	111.11
1	C	518	THR	N-CA-C	-5.25	101.41	109.76
1	A	543	ILE	N-CA-C	5.24	115.96	110.62
1	A	506	VAL	CB-CA-C	-5.23	105.17	112.02
1	B	527	ALA	N-CA-C	-5.13	105.77	111.36
1	A	618	ALA	N-CA-C	-5.11	105.80	111.36
1	A	509	ALA	N-CA-C	-5.10	105.72	111.28
1	B	534	ASN	CA-C-N	-5.10	112.56	120.31
1	B	534	ASN	C-N-CA	-5.10	112.56	120.31
1	A	591	VAL	CB-CA-C	-5.07	104.30	112.16
1	C	533	LYS	N-CA-C	-5.01	105.89	111.36

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	1195	0	1180	104	0
1	B	1213	0	1193	108	0
1	C	1186	0	1167	80	1
2	A	2	0	0	0	0
2	B	3	0	0	0	0
2	C	2	0	0	0	0
3	A	49	0	0	3	0
3	B	42	0	0	3	1
3	C	39	0	0	6	1
All	All	3731	0	3540	279	2

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 39.

All (279) 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:THR:CG2	1:B:592:LYS:HE2	1.55	1.37
1:A:632:GLU:CB	1:A:633:PRO:HA	1.62	1.25
1:B:516:PHE:CZ	1:B:599:GLU:HG3	1.75	1.20
1:B:512:THR:HG22	1:B:592:LYS:CE	1.70	1.19
1:B:516:PHE:HZ	1:B:599:GLU:HG3	1.00	1.14
1:A:632:GLU:HB3	1:A:633:PRO:HA	1.14	1.09
1:B:515:ASP:O	1:B:516:PHE:HB2	1.48	1.07
1:C:557:VAL:O	1:C:561:THR:HG22	1.52	1.07
1:C:561:THR:HG23	1:C:634:ARG:HH22	1.16	1.06
1:A:632:GLU:HB3	1:A:633:PRO:CA	1.84	1.06
1:C:586:GLU:HG3	3:C:117:HOH:O	1.55	1.06
1:B:503:MET:O	1:B:506:VAL:HG12	1.57	1.03
1:A:557:VAL:O	1:A:561:THR:HG22	1.61	1.00
1:B:516:PHE:CE2	1:B:596:ALA:HA	1.97	0.99
1:A:550:ILE:HD13	1:A:584:LEU:HD23	1.45	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:523:GLY:O	1:C:525:ASP:N	1.96	0.97
1:C:610:GLN:NE2	1:C:610:GLN:HA	1.79	0.97
1:A:490:SER:O	1:A:493:GLN:HG2	1.65	0.96
1:A:550:ILE:CD1	1:A:584:LEU:HD23	1.96	0.95
1:B:502:SER:HB3	1:B:581:SER:CB	1.96	0.95
1:A:569:ASP:HB2	1:B:568:THR:HG21	1.50	0.94
1:A:632:GLU:CB	1:A:633:PRO:CA	2.40	0.94
1:B:632:GLU:HB3	1:B:633:PRO:HD2	1.51	0.92
1:B:632:GLU:O	1:B:633:PRO:O	1.88	0.90
1:A:632:GLU:HB2	1:A:633:PRO:HA	1.50	0.90
1:B:489:THR:HB	1:B:492:GLN:HG3	1.51	0.90
1:A:637:LEU:C	1:A:637:LEU:HD23	1.97	0.89
1:A:569:ASP:CB	1:B:568:THR:HG21	2.03	0.89
1:C:610:GLN:HA	1:C:610:GLN:HE21	1.39	0.88
1:A:517:GLU:OE2	1:B:535:LYS:NZ	2.07	0.87
1:A:561:THR:HG23	1:A:634:ARG:HH22	1.36	0.87
1:B:561:THR:HG23	1:B:561:THR:O	1.74	0.86
1:A:652:LEU:C	1:A:654:GLN:H	1.87	0.83
1:C:525:ASP:O	1:C:526:ALA:HB2	1.78	0.82
1:C:561:THR:CG2	1:C:634:ARG:HH22	1.93	0.82
1:A:488:LEU:O	1:A:488:LEU:HG	1.79	0.81
1:B:516:PHE:HZ	1:B:599:GLU:CG	1.89	0.80
1:C:610:GLN:HE21	1:C:610:GLN:CA	1.95	0.80
1:B:535:LYS:NZ	1:B:538:GLU:OE2	2.15	0.80
1:C:565:PRO:C	1:C:567:GLU:H	1.90	0.79
1:B:563:GLY:H	1:B:634:ARG:HH21	1.31	0.79
1:B:576:ALA:O	1:B:580:ILE:HG13	1.84	0.78
1:A:637:LEU:HD23	1:A:637:LEU:O	1.83	0.78
1:B:523:GLY:O	1:B:525:ASP:N	2.19	0.76
1:C:495:LEU:HG	1:C:499:ILE:HD12	1.69	0.75
1:B:502:SER:HB3	1:B:581:SER:HB3	1.68	0.74
1:B:561:THR:O	1:B:561:THR:CG2	2.36	0.73
1:C:565:PRO:O	1:C:567:GLU:N	2.21	0.73
1:B:524:GLN:NE2	3:B:121:HOH:O	2.23	0.72
1:B:525:ASP:O	1:B:526:ALA:HB3	1.87	0.72
1:A:527:ALA:O	1:A:528:SER:C	2.31	0.71
1:A:564:ASP:O	1:A:565:PRO:O	2.07	0.71
1:C:493:GLN:HA	1:C:493:GLN:OE1	1.90	0.71
1:C:502:SER:O	1:C:506:VAL:HG13	1.89	0.71
1:A:540:LYS:NZ	1:A:654:GLN:NE2	2.39	0.71
1:C:525:ASP:O	1:C:526:ALA:CB	2.37	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:632:GLU:CB	1:B:633:PRO:HD2	2.20	0.70
1:C:628:PRO:O	1:C:630:SER:HB2	1.91	0.70
1:A:565:PRO:O	1:A:567:GLU:N	2.24	0.70
1:B:512:THR:CG2	1:B:592:LYS:CE	2.48	0.69
1:A:534:ASN:C	1:A:534:ASN:OD1	2.36	0.69
1:A:569:ASP:OD1	1:B:568:THR:CG2	2.41	0.69
1:C:547:VAL:HG11	1:C:652:LEU:HD21	1.75	0.68
1:B:506:VAL:HG13	1:B:507:GLN:N	2.06	0.68
1:C:561:THR:HG23	1:C:634:ARG:NH2	2.00	0.68
1:A:529:LYS:HD3	1:A:532:ARG:NH1	2.09	0.68
1:A:588:SER:O	1:A:592:LYS:HG2	1.93	0.68
1:B:573:VAL:O	1:B:577:VAL:HG13	1.94	0.68
1:C:490:SER:N	3:C:132:HOH:O	2.26	0.68
1:C:533:LYS:HE2	1:C:537:ASP:OD2	1.93	0.68
1:C:546:GLN:NE2	1:C:587:MET:HA	2.08	0.68
1:C:633:PRO:O	1:C:634:ARG:C	2.35	0.68
1:C:630:SER:O	1:C:631:ALA:CB	2.42	0.67
1:B:489:THR:CB	1:B:492:GLN:HG3	2.23	0.66
1:A:637:LEU:HB2	3:A:65:HOH:O	1.94	0.66
1:A:586:GLU:OE1	1:B:586:GLU:HG2	1.96	0.66
1:B:510:GLN:HG3	1:B:616:ALA:HB3	1.78	0.66
1:A:512:THR:HG23	1:A:592:LYS:HD3	1.78	0.65
1:B:517:GLU:HG3	1:B:518:THR:N	2.11	0.65
1:B:510:GLN:HG3	1:B:616:ALA:CB	2.27	0.65
1:B:502:SER:HB3	1:B:581:SER:OG	1.97	0.64
1:C:637:LEU:HD23	1:C:637:LEU:C	2.22	0.64
1:A:550:ILE:HD11	1:A:584:LEU:HD23	1.76	0.64
1:B:512:THR:HG22	1:B:592:LYS:HE2	0.75	0.64
1:C:630:SER:O	1:C:631:ALA:HB2	1.99	0.63
1:A:563:GLY:O	1:A:564:ASP:HB3	1.98	0.63
1:A:651:LEU:C	1:A:651:LEU:HD13	2.23	0.63
1:B:489:THR:HG22	1:B:491:ALA:H	1.65	0.62
1:B:489:THR:HB	1:B:492:GLN:CG	2.26	0.62
1:B:489:THR:HG22	1:B:492:GLN:H	1.63	0.62
1:C:491:ALA:O	1:C:492:GLN:HB2	2.00	0.61
1:B:503:MET:O	1:B:506:VAL:CG1	2.43	0.61
1:A:632:GLU:HB3	1:A:633:PRO:C	2.24	0.60
1:B:504:GLN:NE2	3:B:120:HOH:O	2.34	0.60
1:A:519:LEU:HB3	1:A:520:PRO:HD2	1.82	0.60
1:A:652:LEU:C	1:A:654:GLN:N	2.55	0.60
1:B:503:MET:C	1:B:506:VAL:HG12	2.25	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:492:GLN:NE2	3:C:136:HOH:O	2.34	0.60
1:B:547:VAL:O	1:B:551:THR:HG22	2.02	0.60
1:C:606:ARG:N	1:C:607:PRO:CD	2.65	0.59
1:A:517:GLU:OE2	1:B:535:LYS:CE	2.51	0.59
1:B:632:GLU:HB3	1:B:633:PRO:CD	2.29	0.59
1:A:526:ALA:O	1:A:529:LYS:N	2.36	0.59
1:C:512:THR:O	1:C:592:LYS:HD2	2.02	0.59
1:A:490:SER:O	1:A:493:GLN:CG	2.47	0.59
1:C:633:PRO:O	1:C:635:GLN:N	2.35	0.58
1:B:512:THR:C	1:B:514:ASP:H	2.11	0.58
1:B:566:ALA:O	1:B:569:ASP:HB2	2.03	0.58
1:B:631:ALA:O	1:B:632:GLU:HB2	2.03	0.58
1:B:557:VAL:O	1:B:561:THR:HB	2.04	0.58
1:A:565:PRO:C	1:A:567:GLU:H	2.11	0.58
1:A:651:LEU:HD13	1:A:651:LEU:O	2.04	0.58
1:A:537:ASP:HB3	3:A:23:HOH:O	2.04	0.57
1:A:556:SER:O	1:A:560:LEU:HB2	2.03	0.57
1:B:566:ALA:O	1:B:569:ASP:N	2.36	0.57
1:A:540:LYS:HZ2	1:A:654:GLN:NE2	2.02	0.57
1:A:557:VAL:O	1:A:561:THR:CG2	2.44	0.57
1:A:637:LEU:C	1:A:637:LEU:CD2	2.75	0.57
1:B:544:HIS:HE1	3:B:17:HOH:O	1.87	0.57
1:B:506:VAL:CG1	1:B:507:GLN:N	2.67	0.57
1:B:632:GLU:N	1:B:632:GLU:OE1	2.37	0.57
1:C:565:PRO:C	1:C:567:GLU:N	2.57	0.57
1:A:517:GLU:OE2	1:B:535:LYS:HE3	2.05	0.57
1:C:615:LEU:HA	1:C:647:ALA:HB1	1.85	0.57
1:B:525:ASP:O	1:B:526:ALA:CB	2.51	0.56
1:C:649:GLY:O	1:C:653:GLN:HG3	2.05	0.56
1:B:621:GLU:O	1:B:621:GLU:HG3	2.05	0.56
1:C:634:ARG:O	1:C:636:ASN:N	2.39	0.56
1:C:621:GLU:OE2	1:C:624:ARG:NH2	2.37	0.56
1:A:565:PRO:C	1:A:567:GLU:N	2.64	0.55
1:C:627:GLN:HA	1:C:627:GLN:OE1	2.07	0.55
1:C:615:LEU:HA	1:C:647:ALA:CB	2.36	0.55
1:B:495:LEU:HD22	1:B:499:ILE:HG13	1.89	0.55
1:B:515:ASP:O	1:B:516:PHE:CB	2.37	0.54
1:C:599:GLU:OE2	1:C:604:ASN:O	2.25	0.54
1:C:610:GLN:HE22	1:C:613:LYS:HE2	1.71	0.54
1:B:578:THR:O	1:B:582:SER:HB3	2.07	0.54
1:B:632:GLU:O	1:B:633:PRO:C	2.51	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:502:SER:O	1:C:506:VAL:CG1	2.54	0.53
1:C:575:CYS:O	1:C:575:CYS:SG	2.66	0.53
1:A:531:TRP:O	1:A:532:ARG:C	2.50	0.53
1:A:569:ASP:CB	1:B:568:THR:CG2	2.82	0.53
1:B:489:THR:HG21	1:B:567:GLU:OE1	2.09	0.52
1:C:520:PRO:HG2	1:C:522:LEU:HD21	1.92	0.52
1:A:495:LEU:HD12	1:A:628:PRO:HG3	1.90	0.52
1:B:507:GLN:HG3	1:B:508:ALA:N	2.24	0.52
1:B:539:SER:O	1:B:540:LYS:C	2.53	0.52
1:C:606:ARG:N	1:C:607:PRO:HD2	2.25	0.52
1:A:495:LEU:HD13	1:A:628:PRO:HD3	1.91	0.52
1:A:539:SER:O	1:A:543:ILE:HG13	2.10	0.52
1:A:569:ASP:OD1	1:B:568:THR:HG21	2.09	0.52
1:A:569:ASP:CG	1:B:568:THR:HG21	2.34	0.52
1:B:652:LEU:C	1:B:654:GLN:N	2.67	0.51
1:C:547:VAL:O	1:C:551:THR:HG22	2.11	0.51
1:C:621:GLU:CD	1:C:624:ARG:NH2	2.69	0.51
1:A:521:PRO:HG2	1:B:522:LEU:HD23	1.92	0.51
1:A:550:ILE:HD13	1:A:584:LEU:CD2	2.31	0.50
1:A:516:PHE:CE2	1:A:609:LEU:HD22	2.47	0.50
1:C:491:ALA:O	1:C:492:GLN:CB	2.58	0.50
1:C:534:ASN:OD1	3:C:44:HOH:O	2.20	0.50
1:B:489:THR:HG22	1:B:491:ALA:N	2.27	0.50
1:C:610:GLN:NE2	1:C:613:LYS:HE2	2.27	0.49
1:A:564:ASP:OD2	1:A:564:ASP:C	2.55	0.49
1:B:512:THR:C	1:B:514:ASP:N	2.70	0.49
1:A:564:ASP:C	1:A:565:PRO:O	2.54	0.49
1:B:504:GLN:HA	1:B:507:GLN:HG2	1.94	0.49
1:C:489:THR:N	3:C:132:HOH:O	2.45	0.49
1:B:565:PRO:HG2	1:B:570:TYR:OH	2.11	0.49
1:A:496:THR:HG23	1:A:627:GLN:OE1	2.12	0.49
1:B:652:LEU:C	1:B:654:GLN:H	2.19	0.49
1:C:513:LEU:O	1:C:609:LEU:HG	2.13	0.49
1:C:536:MET:O	1:C:540:LYS:HG3	2.11	0.49
1:A:529:LYS:HD3	1:A:532:ARG:HH11	1.76	0.49
1:B:489:THR:CG2	1:B:492:GLN:HG3	2.43	0.49
1:B:491:ALA:HB3	1:B:567:GLU:OE1	2.13	0.48
1:C:651:LEU:O	1:C:654:GLN:HA	2.13	0.48
1:C:618:ALA:O	1:C:619:VAL:C	2.53	0.48
1:C:557:VAL:O	1:C:561:THR:CG2	2.42	0.48
1:B:489:THR:CG2	1:B:567:GLU:OE1	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:495:LEU:HD11	1:C:573:VAL:HG12	1.96	0.47
1:A:561:THR:O	1:A:561:THR:OG1	2.32	0.47
1:C:622:LEU:O	1:C:622:LEU:HG	2.15	0.47
1:C:490:SER:O	1:C:491:ALA:HB2	2.13	0.47
1:A:490:SER:C	1:A:492:GLN:H	2.22	0.47
1:B:523:GLY:C	1:B:525:ASP:H	2.22	0.47
1:B:556:SER:O	1:B:560:LEU:HB2	2.14	0.47
1:B:593:LEU:O	1:B:597:LEU:HG	2.14	0.47
1:B:543:ILE:HA	1:B:546:GLN:HE21	1.79	0.47
1:B:548:ASP:HA	1:B:551:THR:HG23	1.97	0.47
1:C:523:GLY:C	1:C:525:ASP:N	2.69	0.47
1:B:616:ALA:O	1:B:617:GLY:C	2.54	0.47
1:A:516:PHE:CE2	1:A:609:LEU:CD2	2.99	0.46
1:B:509:ALA:O	1:B:513:LEU:HD22	2.14	0.46
1:C:586:GLU:CG	3:C:117:HOH:O	2.32	0.46
1:A:547:VAL:O	1:A:550:ILE:N	2.48	0.46
1:A:535:LYS:HA	1:A:535:LYS:HD3	1.71	0.46
1:A:495:LEU:CD1	1:A:628:PRO:HD3	2.46	0.46
1:B:489:THR:CG2	1:B:491:ALA:H	2.29	0.46
1:A:630:SER:C	1:A:632:GLU:H	2.25	0.45
1:B:553:GLY:O	1:B:557:VAL:N	2.47	0.45
1:B:506:VAL:HG23	1:B:584:LEU:CD2	2.46	0.45
1:B:633:PRO:C	1:B:635:GLN:N	2.70	0.45
1:C:525:ASP:HB3	1:C:528:SER:HB2	1.98	0.45
1:C:577:VAL:HB	1:C:623:LEU:CD2	2.47	0.45
1:A:561:THR:CG2	1:A:634:ARG:HH22	2.18	0.45
1:A:502:SER:HB3	1:A:581:SER:HB3	1.99	0.45
1:B:599:GLU:HA	1:B:603:GLY:O	2.17	0.45
1:C:652:LEU:C	1:C:654:GLN:N	2.74	0.45
1:A:504:GLN:HE21	1:A:504:GLN:HB2	1.53	0.45
1:A:601:GLU:C	1:A:603:GLY:H	2.25	0.45
1:A:651:LEU:C	1:A:651:LEU:CD1	2.90	0.45
1:B:507:GLN:HG3	1:B:508:ALA:H	1.81	0.45
1:B:543:ILE:HA	1:B:546:GLN:NE2	2.32	0.44
1:B:635:GLN:O	1:B:636:ASN:C	2.58	0.44
1:B:516:PHE:HE2	1:B:596:ALA:HA	1.71	0.44
1:C:606:ARG:HB2	1:C:607:PRO:HD3	1.99	0.44
1:A:540:LYS:NZ	1:A:654:GLN:CD	2.75	0.44
1:A:631:ALA:O	1:A:632:GLU:C	2.60	0.44
1:C:495:LEU:O	1:C:496:THR:C	2.61	0.44
1:C:634:ARG:O	1:C:635:GLN:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:593:LEU:O	1:A:596:ALA:HB3	2.17	0.44
1:B:512:THR:O	1:B:592:LYS:HD3	2.18	0.43
1:C:585:THR:O	1:C:588:SER:HB2	2.18	0.43
1:C:628:PRO:O	1:C:629:ALA:C	2.60	0.43
1:A:652:LEU:O	1:A:654:GLN:N	2.49	0.43
1:C:562:ALA:O	1:C:564:ASP:N	2.51	0.43
1:C:628:PRO:C	1:C:630:SER:N	2.74	0.43
1:B:513:LEU:HD12	1:B:513:LEU:HA	1.70	0.43
1:A:508:ALA:O	1:A:509:ALA:C	2.62	0.43
1:B:632:GLU:CB	1:B:633:PRO:CD	2.94	0.43
1:B:512:THR:HG21	1:B:592:LYS:HE2	1.79	0.43
1:C:635:GLN:OE1	1:C:638:LEU:HB2	2.18	0.43
1:A:619:VAL:O	1:A:623:LEU:HD22	2.19	0.43
1:A:637:LEU:CB	3:A:65:HOH:O	2.60	0.43
1:A:588:SER:O	1:A:592:LYS:CG	2.64	0.42
1:C:560:LEU:HD12	1:C:560:LEU:HA	1.64	0.42
1:C:495:LEU:HD22	1:C:570:TYR:HD1	1.84	0.42
1:C:634:ARG:HD2	1:C:634:ARG:HA	1.71	0.42
1:A:495:LEU:HD12	1:A:628:PRO:CG	2.49	0.42
1:A:560:LEU:HD12	1:A:560:LEU:HA	1.80	0.42
1:B:540:LYS:O	1:B:541:HIS:C	2.58	0.42
1:B:563:GLY:N	1:B:634:ARG:HH21	2.09	0.42
1:B:617:GLY:O	1:B:620:SER:N	2.52	0.42
1:A:488:LEU:HD12	1:A:489:THR:N	2.34	0.42
1:A:512:THR:HG22	1:A:513:LEU:HG	2.02	0.42
1:A:520:PRO:HB2	1:A:521:PRO:HD2	2.00	0.42
1:B:617:GLY:O	1:B:621:GLU:N	2.51	0.42
1:B:564:ASP:HA	1:B:565:PRO:HD2	1.75	0.42
1:B:623:LEU:HA	1:B:623:LEU:HD23	1.75	0.42
1:A:605:GLY:O	1:A:606:ARG:C	2.62	0.42
1:A:618:ALA:O	1:A:619:VAL:C	2.59	0.42
1:C:625:SER:OG	1:C:637:LEU:HG	2.20	0.42
1:A:524:GLN:HE22	1:A:529:LYS:HE2	1.85	0.41
1:A:540:LYS:HZ3	1:A:654:GLN:NE2	2.14	0.41
1:C:535:LYS:HA	1:C:535:LYS:HD3	1.96	0.41
1:A:500:ASN:HD22	1:A:500:ASN:HA	1.59	0.41
1:A:569:ASP:OD1	1:B:568:THR:HG22	2.17	0.41
1:B:555:ALA:HA	1:B:558:VAL:HG13	2.02	0.41
1:A:522:LEU:HD23	1:A:522:LEU:HA	1.73	0.41
1:A:533:LYS:HE3	1:A:533:LYS:HB3	1.77	0.41
1:C:497:GLY:O	1:C:498:THR:C	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:533:LYS:NZ	1:A:537:ASP:OD1	2.51	0.41
1:A:547:VAL:O	1:A:548:ASP:C	2.63	0.41
1:C:599:GLU:O	1:C:600:ASP:C	2.63	0.41
1:A:524:GLN:O	1:A:525:ASP:C	2.64	0.41
1:A:565:PRO:O	1:A:566:ALA:C	2.63	0.41
1:C:521:PRO:O	1:C:521:PRO:HG2	2.20	0.41
1:A:488:LEU:HD12	1:A:488:LEU:C	2.46	0.41
1:A:573:VAL:O	1:A:577:VAL:HG13	2.20	0.41
1:C:506:VAL:O	1:C:510:GLN:HB2	2.21	0.41
1:C:561:THR:O	1:C:561:THR:OG1	2.39	0.41
1:A:569:ASP:CG	1:B:568:THR:CG2	2.93	0.41
1:B:502:SER:O	1:B:503:MET:C	2.63	0.41
1:B:510:GLN:HG3	1:B:616:ALA:HB1	1.99	0.41
1:A:525:ASP:O	1:A:528:SER:HB2	2.21	0.40
1:A:625:SER:OG	1:A:637:LEU:HG	2.22	0.40
1:A:635:GLN:O	1:A:635:GLN:HG3	2.20	0.40
1:B:536:MET:O	1:B:540:LYS:HG3	2.21	0.40
1:A:584:LEU:HD22	1:A:584:LEU:HA	1.98	0.40

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:B:73:HOH:O	3:C:10:HOH:O[4_456]	2.03	0.17
1:C:575:CYS:SG	1:C:575:CYS:SG[5_676]	2.16	0.04

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	165/174 (95%)	147 (89%)	12 (7%)	6 (4%)	2 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	168/174 (97%)	154 (92%)	6 (4%)	8 (5%)	2	2
1	C	164/174 (94%)	146 (89%)	7 (4%)	11 (7%)	1	1
All	All	497/522 (95%)	447 (90%)	25 (5%)	25 (5%)	1	2

All (25) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	565	PRO
1	A	566	ALA
1	A	632	GLU
1	B	516	PHE
1	B	524	GLN
1	B	526	ALA
1	B	630	SER
1	B	633	PRO
1	C	491	ALA
1	C	525	ASP
1	C	566	ALA
1	C	634	ARG
1	C	490	SER
1	C	492	GLN
1	C	524	GLN
1	C	526	ALA
1	C	563	GLY
1	C	631	ALA
1	C	635	GLN
1	A	602	GLY
1	A	653	GLN
1	B	515	ASP
1	A	564	ASP
1	B	629	ALA
1	B	519	LEU

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	123/131 (94%)	88 (72%)	35 (28%)	0	0
1	B	125/131 (95%)	94 (75%)	31 (25%)	1	1
1	C	122/131 (93%)	97 (80%)	25 (20%)	1	2
All	All	370/393 (94%)	279 (75%)	91 (25%)	1	1

All (91) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	488	LEU
1	A	493	GLN
1	A	495	LEU
1	A	504	GLN
1	A	512	THR
1	A	518	THR
1	A	533	LYS
1	A	534	ASN
1	A	535	LYS
1	A	540	LYS
1	A	541	HIS
1	A	556	SER
1	A	559	ASN
1	A	560	LEU
1	A	561	THR
1	A	564	ASP
1	A	567	GLU
1	A	571	THR
1	A	575	CYS
1	A	577	VAL
1	A	584	LEU
1	A	589	ARG
1	A	591	VAL
1	A	592	LYS
1	A	601	GLU
1	A	606	ARG
1	A	609	LEU
1	A	610	GLN
1	A	613	LYS
1	A	620	SER
1	A	623	LEU
1	A	638	LEU
1	A	648	SER
1	A	651	LEU

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Mol	Chain	Res	Type
1	A	652	LEU
1	B	488	LEU
1	B	489	THR
1	B	493	GLN
1	B	495	LEU
1	B	501	SER
1	B	507	GLN
1	B	512	THR
1	B	513	LEU
1	B	518	THR
1	B	546	GLN
1	B	551	THR
1	B	558	VAL
1	B	560	LEU
1	B	561	THR
1	B	568	THR
1	B	571	THR
1	B	577	VAL
1	B	580	ILE
1	B	582	SER
1	B	586	GLU
1	B	594	LEU
1	B	598	LEU
1	B	609	LEU
1	B	610	GLN
1	B	613	LYS
1	B	619	VAL
1	B	624	ARG
1	B	638	LEU
1	B	651	LEU
1	B	652	LEU
1	B	654	GLN
1	C	489	THR
1	C	493	GLN
1	C	499	ILE
1	C	501	SER
1	C	506	VAL
1	C	515	ASP
1	C	533	LYS
1	C	550	ILE
1	C	551	THR
1	C	558	VAL

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Mol	Chain	Res	Type
1	C	560	LEU
1	C	561	THR
1	C	567	GLU
1	C	571	THR
1	C	573	VAL
1	C	577	VAL
1	C	586	GLU
1	C	589	ARG
1	C	592	LYS
1	C	609	LEU
1	C	610	GLN
1	C	615	LEU
1	C	620	SER
1	C	632	GLU
1	C	634	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (27) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	492	GLN
1	A	493	GLN
1	A	500	ASN
1	A	504	GLN
1	A	524	GLN
1	A	546	GLN
1	A	635	GLN
1	A	643	ASN
1	A	654	GLN
1	B	493	GLN
1	B	500	ASN
1	B	546	GLN
1	B	627	GLN
1	B	635	GLN
1	B	636	ASN
1	B	639	GLN
1	B	643	ASN
1	B	653	GLN
1	C	500	ASN
1	C	534	ASN
1	C	541	HIS
1	C	544	HIS
1	C	546	GLN

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Mol	Chain	Res	Type
1	C	559	ASN
1	C	610	GLN
1	C	639	GLN
1	C	643	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](#)

Of 7 ligands modelled in this entry, 7 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 [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	A	167/174 (95%)	0.94	13 (7%) 19 17	27, 36, 45, 53	0
1	B	170/174 (97%)	0.88	16 (9%) 14 12	27, 39, 47, 53	0
1	C	166/174 (95%)	0.96	15 (9%) 15 13	28, 38, 51, 57	0
All	All	503/522 (96%)	0.93	44 (8%) 16 14	27, 37, 48, 57	0

All (44) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	516	PHE	5.2
1	C	490	SER	4.5
1	B	504	GLN	4.3
1	C	564	ASP	4.0
1	A	632	GLU	3.8
1	A	602	GLY	3.7
1	B	602	GLY	3.6
1	C	631	ALA	3.6
1	B	524	GLN	3.5
1	B	654	GLN	3.4
1	C	629	ALA	3.4
1	C	621	GLU	3.3
1	B	630	SER	3.2
1	A	651	LEU	3.2
1	C	630	SER	3.2
1	A	523	GLY	3.1
1	C	632	GLU	3.1
1	A	566	ALA	2.9
1	C	624	ARG	2.6
1	B	631	ALA	2.5
1	A	542	GLU	2.5
1	C	597	LEU	2.5
1	C	654	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
1	B	652	LEU	2.4
1	B	515	ASP	2.3
1	B	507	GLN	2.3
1	A	584	LEU	2.3
1	A	575	CYS	2.3
1	A	491	ALA	2.2
1	C	610	GLN	2.2
1	A	629	ALA	2.2
1	B	610	GLN	2.2
1	C	536	MET	2.2
1	C	489	THR	2.2
1	A	603	GLY	2.2
1	C	563	GLY	2.1
1	A	606	ARG	2.1
1	B	632	GLU	2.1
1	C	648	SER	2.1
1	B	558	VAL	2.1
1	B	584	LEU	2.0
1	B	561	THR	2.0
1	B	633	PRO	2.0
1	A	570	TYR	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](#)

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	PT	A	202	1/1	0.94	0.38	33,33,33,33	0
2	PT	B	205	1/1	0.95	0.22	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
2	PT	C	207	1/1	0.96	0.19	29,29,29,29	0
2	PT	C	206	1/1	0.97	0.18	30,30,30,30	0
2	PT	B	203	1/1	0.98	0.33	31,31,31,31	0
2	PT	A	201	1/1	0.98	0.13	26,26,26,26	0
2	PT	B	204	1/1	0.99	0.20	30,30,30,30	0

6.5 Other polymers [i](#)

There are no such residues in this entry.