



Full wwPDB X-ray Structure Validation Report

Feb 28, 2014 – 11:57 AM GMT

PDB ID : 4MZ0
Title : Structure of a ketosynthase-acyltransferase domain from module CurL of the curacin A polyketide synthase
Authors : Whicher, J.R.; Smaga, S.S.; Smith, J.L.
Deposited on : 2013-09-28
Resolution : 2.80 Å (reported)

This is a full wwPDB validation report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

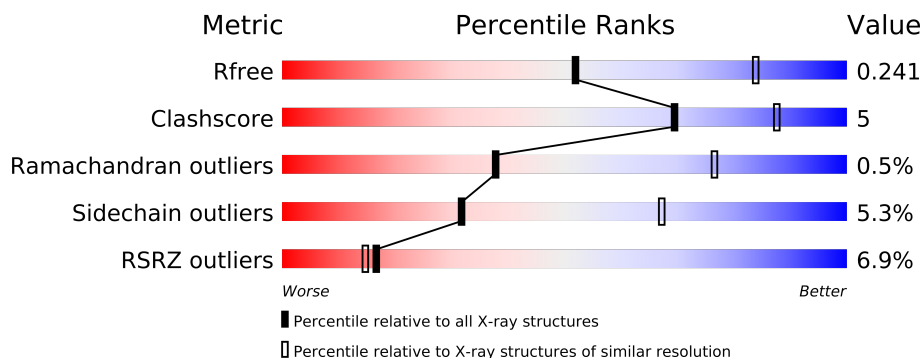
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.15 2013
Xtriage (Phenix) : dev-1323
EDS : stable22639
Percentile statistics : 21963
Refmac : 5.8.0049
CCP4 : 6.3.0 (Settle)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)
Validation Pipeline (wwPDB-VP) : stable22683

1 Overall quality at a glance

The reported resolution of this entry is 2.80 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}	66092	1799 (2.80-2.80)
Clashscore	79885	2295 (2.80-2.80)
Ramachandran outliers	78287	2252 (2.80-2.80)
Sidechain outliers	78261	2254 (2.80-2.80)
RSRZ outliers	66119	1802 (2.80-2.80)

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. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	A	938	
1	B	938	

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 13429 atoms, of which 0 are hydrogen and 0 are deuterium.

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 CurL.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	896	Total	C	N	O	S	0	0	0
			6857	4340	1173	1317	27			
1	B	823	Total	C	N	O	S	0	0	0
			6288	3984	1077	1204	23			

- Molecule 2 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	B	1	Total	Ca	0	0
			1	1		
2	A	1	Total	Ca	0	0
			1	1		

- Molecule 3 is water.

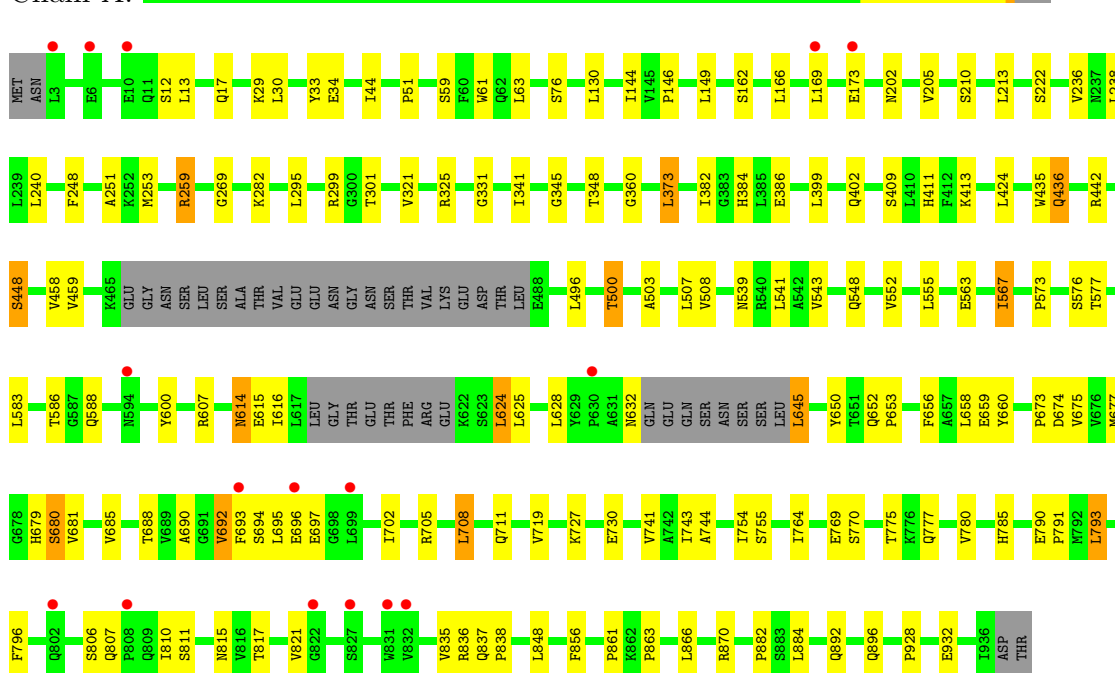
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
3	A	166	Total	O	0	0
			166	166		
3	B	116	Total	O	0	0
			116	116		

3 Residue-property plots

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of errors 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.

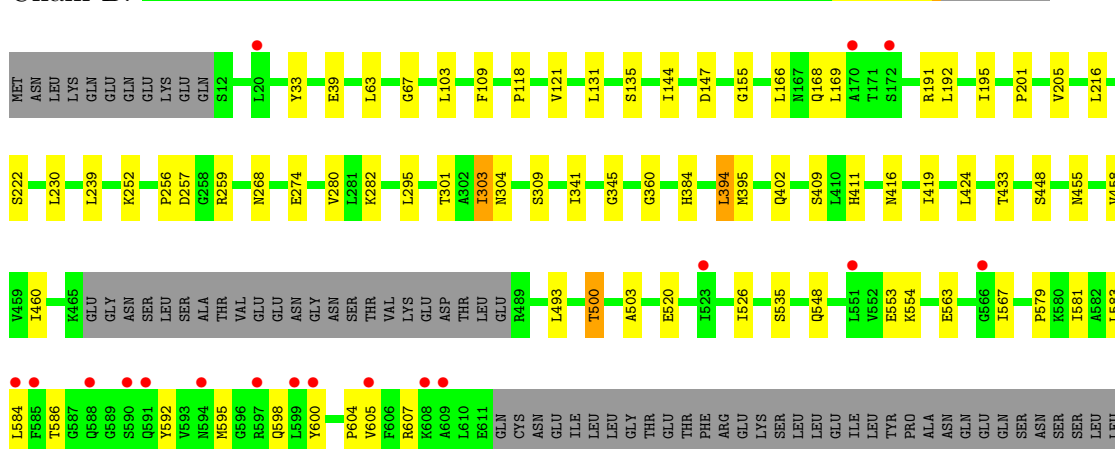
• Molecule 1: CurL

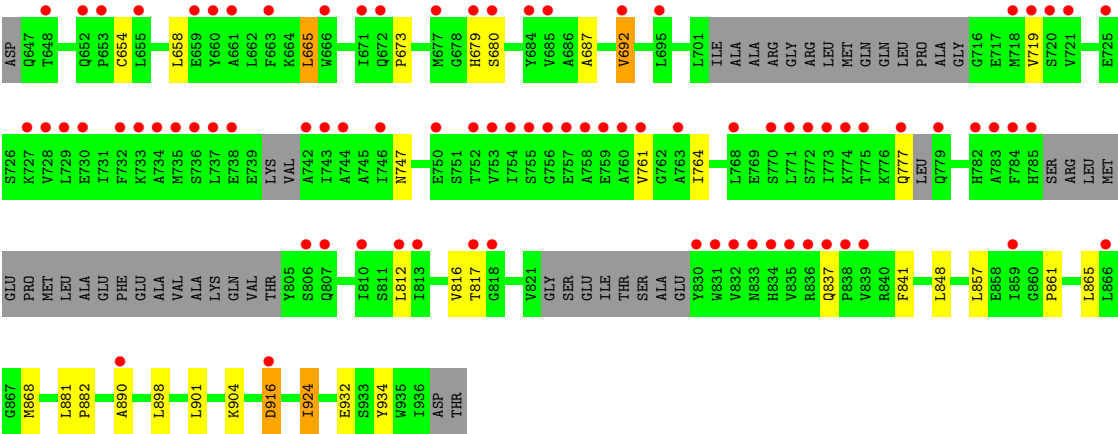
Chain A:



• Molecule 1: CurL

Chain B:





4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	69.27Å 150.70Å 236.00Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	40.99 – 2.80 49.14 – 2.80	Depositor EDS
% Data completeness (in resolution range)	(Not available) (40.99-2.80) 99.8 (49.14-2.80)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.10	Depositor
$\langle I/\sigma(I) \rangle$ ¹	4.00 (at 2.81Å)	Xtriage
Refinement program	BUSTER 2.8.0	Depositor
R, R_{free}	0.185 , 0.231 0.193 , 0.241	Depositor DCC
R_{free} test set	3118 reflections (5.33%)	DCC
Wilson B-factor (Å ²)	52.8	Xtriage
Anisotropy	0.467	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 42.7	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.32$	Xtriage
Outliers	0 of 61618 reflections	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	13429	wwPDB-VP
Average B, all atoms (Å ²)	62.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.89% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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	0.52	0/6995	0.73	0/9506
1	B	0.50	0/6417	0.72	1/8722 (0.0%)
All	All	0.51	0/13412	0.72	1/18228 (0.0%)

There are no bond length outliers.

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	916	ASP	CB-CG-OD2	5.21	122.99	118.30

There are no chirality outliers.

There are no planarity outliers.

5.2 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 hydrogens added by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	6857	0	6816	77	0
1	B	6288	0	6224	48	0
2	A	1	0	0	0	0
2	B	1	0	0	0	0
3	A	166	0	0	0	0
3	B	116	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	13429	0	13040	123	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 5.

All (123) close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:656:PHE:HZ	1:A:688:THR:HG21	1.36	0.90
1:A:675:VAL:HG12	1:A:811:SER:HB2	1.58	0.85
1:A:248:PHE:HD1	1:A:253:MET:SD	2.05	0.80
1:A:202:ASN:H	1:B:303:ILE:HD11	1.48	0.79
1:A:251:ALA:HB3	1:A:253:MET:HE3	1.67	0.77
1:A:248:PHE:CD1	1:A:253:MET:SD	2.85	0.70
1:B:600:TYR:O	1:B:607:ARG:HG2	1.93	0.68
1:A:500:THR:HG22	1:A:503:ALA:H	1.58	0.68
1:A:543:VAL:HG22	1:A:567:ILE:HD12	1.78	0.65
1:B:816:VAL:HG13	1:B:837:GLN:HG2	1.79	0.64
1:A:251:ALA:HB3	1:A:253:MET:CE	2.27	0.63
1:A:248:PHE:HD1	1:A:253:MET:CE	2.12	0.62
1:B:500:THR:HG22	1:B:503:ALA:H	1.64	0.62
1:A:301:THR:HG22	1:A:458:VAL:HG22	1.80	0.62
1:B:166:LEU:HA	1:B:169:LEU:HD12	1.83	0.61
1:A:583:LEU:HD13	1:A:673:PRO:HB3	1.84	0.59
1:B:584:LEU:HB3	1:B:865:LEU:HD23	1.84	0.59
1:B:118:PRO:HA	1:B:121:VAL:HG12	1.83	0.59
1:A:259:ARG:HG2	1:A:411:HIS:NE2	2.17	0.59
1:A:166:LEU:HA	1:A:169:LEU:HD12	1.84	0.59
1:A:541:LEU:HD11	1:A:567:ILE:HD11	1.85	0.58
1:A:863:PRO:HB3	1:A:882:PRO:HB3	1.86	0.58
1:A:650:TYR:O	1:A:653:PRO:HD2	2.04	0.57
1:A:656:PHE:CZ	1:A:688:THR:HG21	2.28	0.57
1:B:605:VAL:HB	1:B:665:LEU:HD23	1.86	0.57
1:B:360:GLY:HA3	1:B:424:LEU:HD23	1.86	0.57
1:A:213:LEU:HD12	1:A:448:SER:HB2	1.87	0.56
1:B:586:THR:HG22	1:B:865:LEU:HD13	1.87	0.55
1:A:435:TRP:O	1:A:442:ARG:NH1	2.40	0.54
1:B:191:ARG:HG2	1:B:195:ILE:HD12	1.90	0.54
1:A:44:ILE:HD13	1:A:282:LYS:HD2	1.91	0.53
1:A:61:TRP:HB2	1:A:399:LEU:HD22	1.90	0.52
1:B:295:LEU:HD22	1:B:402:GLN:HE22	1.73	0.52
1:B:526:ILE:HG23	1:B:924:ILE:HD11	1.90	0.52
1:A:690:ALA:HA	1:A:810:ILE:HD12	1.93	0.51

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:680:SER:H	1:A:815:ASN:ND2	2.08	0.51
1:A:360:GLY:HA3	1:A:424:LEU:HD22	1.92	0.51
1:A:719:VAL:HG22	1:A:777:GLN:HA	1.93	0.51
1:A:680:SER:H	1:A:815:ASN:HD21	1.58	0.51
1:A:614:ASN:OD1	1:A:625:LEU:HB2	2.10	0.51
1:B:416:ASN:HB3	1:B:419:ILE:HD12	1.92	0.50
1:A:251:ALA:CB	1:A:253:MET:CE	2.88	0.50
1:B:301:THR:HG22	1:B:458:VAL:HG22	1.92	0.50
1:B:103:LEU:HG	1:B:274:GLU:HG3	1.94	0.50
1:A:694:SER:H	1:A:697:GLU:HB2	1.77	0.50
1:A:321:VAL:O	1:A:325:ARG:HG3	2.11	0.50
1:A:248:PHE:HA	1:A:253:MET:HE3	1.94	0.49
1:A:146:PRO:HA	1:A:149:LEU:HB3	1.94	0.49
1:A:573:PRO:HG2	1:A:576:SER:HB3	1.95	0.49
1:A:692:VAL:HA	1:A:806:SER:O	2.13	0.48
1:B:595:MET:HB3	1:B:658:LEU:HD13	1.95	0.48
1:A:836:ARG:HG3	1:A:837:GLN:HE21	1.77	0.48
1:A:588:GLN:HB2	1:A:681:VAL:HG21	1.96	0.48
1:A:548:GLN:O	1:A:552:VAL:HG23	2.14	0.47
1:B:109:PHE:O	1:B:934:TYR:HE2	1.97	0.47
1:A:624:LEU:HD23	1:A:628:LEU:HD12	1.96	0.47
1:A:251:ALA:CB	1:A:253:MET:HE2	2.44	0.47
1:B:579:PRO:HG3	1:B:904:LYS:HB3	1.96	0.47
1:B:583:LEU:HD13	1:B:673:PRO:HB3	1.97	0.47
1:B:554:LYS:HB3	1:B:567:ILE:HD11	1.97	0.47
1:A:600:TYR:CZ	1:A:625:LEU:HD11	2.50	0.46
1:A:708:LEU:HD23	1:A:796:PHE:HB2	1.97	0.46
1:A:30:LEU:O	1:A:34:GLU:HG2	2.14	0.46
1:A:507:LEU:HD13	1:A:928:PRO:HD3	1.98	0.46
1:A:384:HIS:CD2	1:A:386:GLU:H	2.34	0.46
1:A:688:THR:HG22	1:A:693:PHE:HB2	1.98	0.46
1:A:790:GLU:N	1:A:791:PRO:HD2	2.31	0.46
1:A:708:LEU:O	1:A:711:GLN:HG2	2.15	0.46
1:B:131:LEU:O	1:B:135:SER:OG	2.28	0.46
1:A:744:ALA:HB2	1:A:755:SER:HB2	1.99	0.45
1:A:299:ARG:NH1	1:A:331:GLY:O	2.48	0.45
1:A:861:PRO:HA	1:A:884:LEU:HB2	1.98	0.45
1:B:394:LEU:HD12	1:B:460:ILE:HD11	1.99	0.45
1:A:866:LEU:O	1:A:870:ARG:HG3	2.17	0.45
1:B:841:PHE:CE2	1:B:868:MET:HB3	2.51	0.45
1:B:239:LEU:HG	1:B:274:GLU:HB3	1.99	0.45
1:B:898:LEU:HA	1:B:901:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:33:TYR:HB3	1:B:33:TYR:CE1	2.51	0.45
1:A:741:VAL:HG21	1:A:764:ILE:HD12	1.99	0.44
1:A:785:HIS:HA	1:A:835:VAL:O	2.17	0.44
1:B:592:TYR:CE1	1:B:861:PRO:HB2	2.52	0.44
1:A:51:PRO:HD2	1:A:382:ILE:HB	1.99	0.44
1:A:653:PRO:HA	1:A:702:ILE:HG23	1.99	0.44
1:A:269:GLY:HA2	1:A:348:THR:HG22	1.99	0.44
1:A:508:VAL:HG13	1:A:555:LEU:HD22	1.99	0.44
1:A:660:TYR:CE2	1:A:695:LEU:HD12	2.52	0.44
1:B:761:VAL:HA	1:B:764:ILE:HD12	2.00	0.44
1:A:743:ILE:O	1:A:838:PRO:HB3	2.18	0.44
1:A:616:ILE:HD11	1:A:696:GLU:HG2	1.99	0.43
1:B:230:LEU:HD13	1:B:282:LYS:HE3	1.99	0.43
1:A:496:LEU:HD12	1:A:541:LEU:HD23	2.00	0.43
1:B:881:LEU:HA	1:B:882:PRO:HD3	1.93	0.43
1:B:604:PRO:HG2	1:B:916:ASP:HB3	1.99	0.43
1:A:659:GLU:OE1	1:A:685:VAL:HG11	2.19	0.43
1:B:295:LEU:HD22	1:B:402:GLN:NE2	2.34	0.42
1:B:598:GLN:HB3	1:B:890:ALA:HB3	2.01	0.42
1:A:295:LEU:HD22	1:A:402:GLN:NE2	2.34	0.42
1:B:67:GLY:HA2	3:B:1106:HOH:O	2.18	0.42
1:A:848:LEU:HD23	1:A:856:PHE:HE1	1.83	0.42
1:A:341:ILE:HD12	1:A:373:LEU:HD21	2.02	0.42
1:B:747:ASN:HB3	1:B:868:MET:HG2	2.01	0.42
1:A:210:SER:HA	1:A:448:SER:HB3	2.01	0.42
1:B:259:ARG:HG2	1:B:411:HIS:NE2	2.35	0.42
1:B:679:HIS:HB2	1:B:865:LEU:HD11	2.01	0.42
1:A:652:GLN:OE1	1:A:705:ARG:HG3	2.20	0.42
1:B:256:PRO:HD2	1:B:268:ASN:ND2	2.35	0.41
1:B:168:GLN:HG2	1:B:168:GLN:H	1.75	0.41
1:A:645:LEU:N	1:A:650:TYR:HD2	2.18	0.41
1:A:144:ILE:HG21	1:A:149:LEU:HD13	2.02	0.41
1:B:719:VAL:HG13	1:B:777:GLN:HB3	2.02	0.41
1:A:436:GLN:HB2	1:A:436:GLN:HE21	1.66	0.41
1:B:144:ILE:HD11	1:B:280:VAL:HG11	2.03	0.41
1:B:493:LEU:HD23	1:B:898:LEU:HD23	2.03	0.41
1:B:581:ILE:HD11	1:B:857:LEU:HB2	2.02	0.41
1:A:727:LYS:O	1:A:730:GLU:HG2	2.21	0.41
1:A:238:LEU:HB3	1:A:240:LEU:HD12	2.03	0.41
1:B:304:ASN:OD1	1:B:455:ASN:HB2	2.21	0.41
1:A:13:LEU:HD23	1:A:13:LEU:HA	1.97	0.41
1:B:687:ALA:HB1	1:B:692:VAL:HG12	2.02	0.40

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Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:A:892:GLN:HE21	1:A:896:GLN:HE21	1.68	0.40
1:B:216:LEU:HD11	1:B:394:LEU:HD13	2.02	0.40
1:A:675:VAL:HG12	1:A:811:SER:CB	2.41	0.40
1:B:155:GLY:HA2	1:B:201:PRO:O	2.21	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	888/938 (95%)	843 (95%)	40 (4%)	5 (1%)	33	72
1	B	807/938 (86%)	769 (95%)	35 (4%)	3 (0%)	43	80
All	All	1695/1876 (90%)	1612 (95%)	75 (4%)	8 (0%)	38	76

All (8) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	345	GLY
1	A	563	GLU
1	A	680	SER
1	A	692	VAL
1	B	309	SER
1	B	345	GLY
1	B	680	SER
1	A	793	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	743/781 (95%)	698 (94%)	45 (6%)	26	61
1	B	681/781 (87%)	651 (96%)	30 (4%)	39	75
All	All	1424/1562 (91%)	1349 (95%)	75 (5%)	32	67

All (75) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	12	SER
1	A	17	GLN
1	A	29	LYS
1	A	59	SER
1	A	63	LEU
1	A	76	SER
1	A	130	LEU
1	A	162	SER
1	A	173	GLU
1	A	205	VAL
1	A	222	SER
1	A	236	VAL
1	A	259	ARG
1	A	373	LEU
1	A	409	SER
1	A	413	LYS
1	A	436	GLN
1	A	448	SER
1	A	459	VAL
1	A	500	THR
1	A	539	ASN
1	A	567	ILE
1	A	577	THR
1	A	586	THR
1	A	607	ARG
1	A	614	ASN
1	A	615	GLU
1	A	624	LEU
1	A	632	ASN
1	A	645	LEU
1	A	658	LEU
1	A	674	ASP
1	A	677	MET
1	A	679	HIS
1	A	708	LEU

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Mol	Chain	Res	Type
1	A	754	ILE
1	A	769	GLU
1	A	770	SER
1	A	775	THR
1	A	780	VAL
1	A	793	LEU
1	A	807	GLN
1	A	817	THR
1	A	821	VAL
1	A	932	GLU
1	B	39	GLU
1	B	63	LEU
1	B	147	ASP
1	B	192	LEU
1	B	205	VAL
1	B	222	SER
1	B	252	LYS
1	B	257	ASP
1	B	303	ILE
1	B	341	ILE
1	B	384	HIS
1	B	394	LEU
1	B	395	MET
1	B	409	SER
1	B	433	THR
1	B	448	SER
1	B	500	THR
1	B	520	GLU
1	B	535	SER
1	B	548	GLN
1	B	553	GLU
1	B	563	GLU
1	B	654	CYS
1	B	665	LEU
1	B	692	VAL
1	B	812	LEU
1	B	817	THR
1	B	848	LEU
1	B	924	ILE
1	B	932	GLU

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (21) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	176	GLN
1	A	384	HIS
1	A	402	GLN
1	A	436	GLN
1	A	509	ASN
1	A	512	GLN
1	A	559	GLN
1	A	601	GLN
1	A	807	GLN
1	A	815	ASN
1	A	819	GLN
1	A	837	GLN
1	A	896	GLN
1	B	167	ASN
1	B	226	GLN
1	B	369	GLN
1	B	400	GLN
1	B	402	GLN
1	B	574	ASN
1	B	834	HIS
1	B	896	GLN

5.3.3 RNA ⓘ

There are no RNA chains in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains ⓘ

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

5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

5.6 Ligand geometry ⓘ

Of 2 ligands modelled in this entry, 2 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.

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, 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	896/938 (95%)	-0.02	16 (1%) 65 66	29, 50, 94, 123	0
1	B	823/938 (87%)	0.42	102 (12%) 5 4	31, 58, 116, 141	0
All	All	1719/1876 (91%)	0.19	118 (6%) 17 15	29, 54, 110, 141	0

All (118) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	742	ALA	7.4
1	B	743	ILE	6.0
1	B	588	GLN	5.5
1	B	834	HIS	5.4
1	B	660	TYR	5.2
1	B	609	ALA	5.1
1	B	784	PHE	5.0
1	B	746	ILE	4.9
1	B	785	HIS	4.6
1	B	761	VAL	4.6
1	B	734	ALA	4.5
1	B	831	TRP	4.4
1	B	684	TYR	4.4
1	B	732	PHE	4.4
1	B	738	GLU	4.3
1	B	836	ARG	4.2
1	B	759	GLU	4.1
1	A	802	GLN	4.1
1	B	728	VAL	4.0
1	B	806	SER	4.0
1	B	608	LYS	4.0
1	B	770	SER	3.9
1	B	725	GLU	3.9
1	B	754	ILE	3.9

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Mol	Chain	Res	Type	RSRZ
1	B	817	THR	3.8
1	B	835	VAL	3.8
1	B	830	TYR	3.8
1	B	590	SER	3.7
1	B	771	LEU	3.7
1	B	721	VAL	3.7
1	B	837	GLN	3.6
1	B	838	PRO	3.6
1	B	655	LEU	3.6
1	B	758	ALA	3.5
1	B	719	VAL	3.5
1	B	756	GLY	3.4
1	B	775	THR	3.4
1	B	833	ASN	3.4
1	A	594	ASN	3.3
1	B	773	ILE	3.3
1	B	737	LEU	3.3
1	B	729	LEU	3.3
1	B	755	SER	3.2
1	B	727	LYS	3.2
1	B	692	VAL	3.2
1	B	763	ALA	3.2
1	B	663	PHE	3.1
1	B	735	MET	3.1
1	B	172	SER	3.0
1	A	693	PHE	3.0
1	B	890	ALA	3.0
1	B	760	ALA	2.9
1	B	585	PHE	2.8
1	B	599	LEU	2.8
1	B	807	GLN	2.8
1	A	630	PRO	2.8
1	B	648	THR	2.7
1	B	672	GLN	2.7
1	B	744	ALA	2.7
1	B	671	ILE	2.7
1	B	859	ILE	2.7
1	A	808	PRO	2.7
1	B	659	GLU	2.7
1	B	866	LEU	2.6
1	B	653	PRO	2.6
1	B	774	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	736	SER	2.5
1	B	750	GLU	2.5
1	B	782	HIS	2.5
1	B	753	VAL	2.5
1	B	680	SER	2.5
1	B	752	THR	2.5
1	B	812	LEU	2.5
1	B	594	ASN	2.5
1	B	772	SER	2.5
1	A	699	LEU	2.4
1	B	677	MET	2.4
1	A	6	GLU	2.4
1	B	605	VAL	2.4
1	B	810	ILE	2.4
1	B	813	ILE	2.4
1	B	584	LEU	2.4
1	B	832	VAL	2.4
1	A	173	GLU	2.4
1	B	730	GLU	2.4
1	B	695	LEU	2.3
1	A	822	GLY	2.3
1	B	566	GLY	2.3
1	A	832	VAL	2.3
1	B	779	GLN	2.3
1	B	679	HIS	2.3
1	B	551	LEU	2.3
1	B	720	SER	2.3
1	B	733	LYS	2.3
1	B	600	TYR	2.3
1	A	696	GLU	2.3
1	A	827	SER	2.2
1	B	718	MET	2.2
1	B	783	ALA	2.2
1	B	666	TRP	2.2
1	B	818	GLY	2.2
1	B	591	GLN	2.2
1	B	661	ALA	2.2
1	A	169	LEU	2.2
1	B	757	GLU	2.2
1	B	916	ASP	2.2
1	A	10	GLU	2.1
1	B	597	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
1	B	170	ALA	2.1
1	B	777	GLN	2.1
1	B	523	ILE	2.0
1	A	831	TRP	2.0
1	B	768	LEU	2.0
1	B	839	VAL	2.0
1	A	3	LEU	2.0
1	B	652	GLN	2.0
1	B	685	VAL	2.0
1	B	20	LEU	2.0

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 ⓘ

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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. 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	RSR	LLDF	B-factors(Å ²)	Q<0.9
2	CA	B	1001	1/1	0.17	0.68	53,53,53,53	0
2	CA	A	1001	1/1	0.14	-1.04	42,42,42,42	0

6.5 Other polymers ⓘ

There are no such residues in this entry.