



Full wwPDB X-ray Structure Validation Report ⓘ

May 24, 2020 – 10:12 pm BST

PDB ID : 3I5G
Title : Crystal structure of rigor-like squid myosin S1
Authors : Yang, Y.; Gourinath, S.; Kovacs, M.; Nyitray, L.; Reutzel, R.; Himmel, D.M.; O'Neill-Hennessey, E.; Reshetnikova, L.; Szent-Gyorgyi, A.G.; Brown, J.H.; Cohen, C.
Deposited on : 2009-07-05
Resolution : 2.60 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 following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

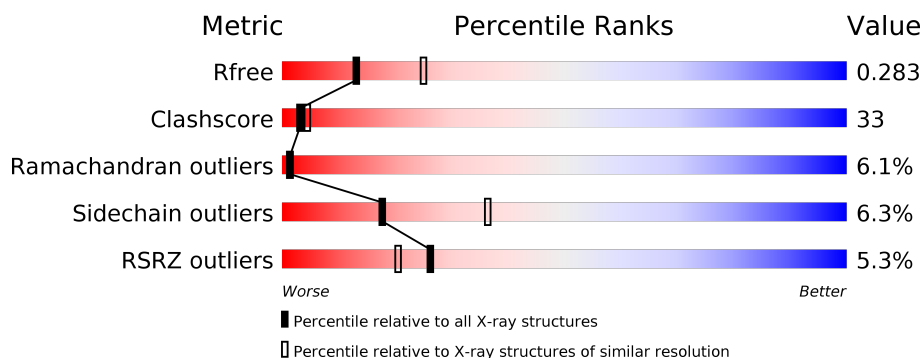
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.60 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}	130704	3163 (2.60-2.60)
Clashscore	141614	3518 (2.60-2.60)
Ramachandran outliers	138981	3455 (2.60-2.60)
Sidechain outliers	138945	3455 (2.60-2.60)
RSRZ outliers	127900	3104 (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 on 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	839	<div> <div>3%</div> <div> <div></div> <div>49%</div> <div>42%</div> <div>5%</div> </div> <div>• •</div> </div>
2	B	153	<div> <div>18%</div> <div> <div></div> <div>31%</div> <div>46%</div> <div>16%</div> </div> <div>• 5%</div> </div>
3	C	159	<div> <div>%</div> <div> <div></div> <div>52%</div> <div>39%</div> <div>7%</div> </div> <div>• •</div> </div>

2 Entry composition

There are 6 unique types of molecules in this entry. The entry contains 8985 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 Myosin heavy chain isoform A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	808	Total	C	N	O	S	0	0	0
			6493	4150	1111	1193	39			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	238	LYS	GLU	CONFLICT	UNP O44934
A	744	ALA	VAL	CONFLICT	UNP O44934

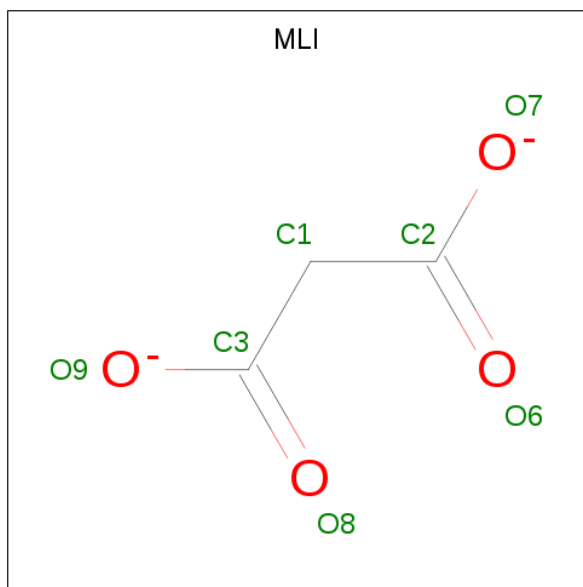
- Molecule 2 is a protein called Myosin regulatory light chain LC-2, mantle muscle.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	145	Total	C	N	O	S	0	0	0
			1166	733	191	233	9			

- Molecule 3 is a protein called Myosin catalytic light chain LC-1, mantle muscle.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	156	Total	C	N	O	S	0	0	0
			1239	773	203	253	10			

- Molecule 4 is MALONATE ION (three-letter code: MLI) (formula: C₃H₂O₄).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			7	3	4		

- Molecule 5 is CALCIUM ION (three-letter code: CA) (formula: Ca).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	C	1	Total	Ca	0	0
			1	1		

- Molecule 6 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
6	A	51	Total	O	0	0
			51	51		
6	C	28	Total	O	0	0
			28	28		

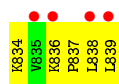
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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 ($\text{RSRZ} > 2$). 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.

- Chain A: 3% 49% 42% 5% • •

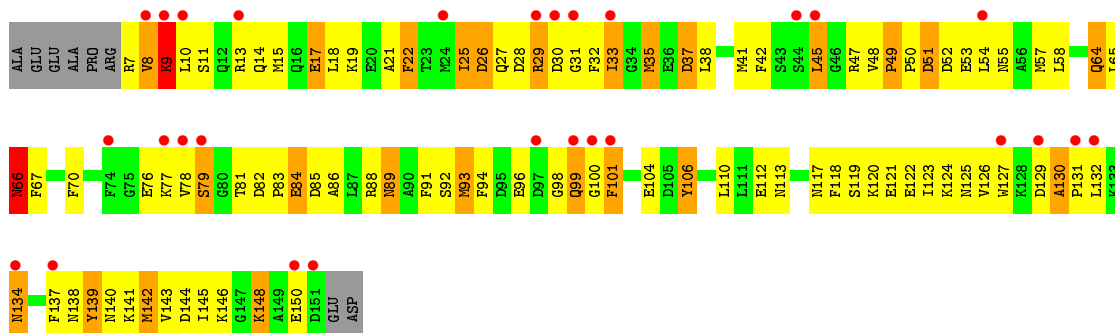
The visualization displays a hierarchical tree structure of nodes, each labeled with an ID and a corresponding value. The nodes are arranged in a grid-like fashion, with rows and columns. The bar chart at the top shows the distribution of these values across the entire chain.

Node IDs and values (from top to bottom, left to right):

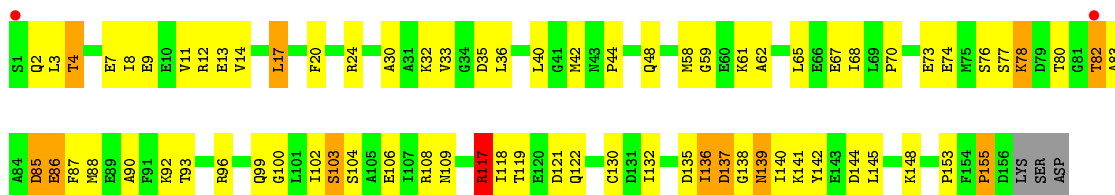
 - L748, 3%
 - F669, 49%
 - V589, 42%
 - Q500, 5%
 - K399, 5%
 - V324, 5%
 - F248, 5%
 - A180, 5%
 - G181, 5%
 - L91, 5%
 - T2, 5%
 - D4, 5%
 - F5, 5%
 - S6, 5%
 - D7, 5%
 - M10, 5%
 - L13, 5%
 - C14, 5%
 - L16, 5%
 - R17, 5%
 - Q18, 5%
 - K19, 5%
 - L20, 5%
 - T24, 5%
 - V36, 5%
 - P37, 5%
 - D38, 5%
 - F41, 5%
 - L128, 5%
 - R128, 5%
 - L129, 5%
 - E284, 5%
 - P130, 5%
 - V44, 5%
 - G45, 5%
 - A46, 5%
 - E47, 5%
 - D54, 5%
 - V58, 5%
 - K59, 5%
 - T60, 5%
 - D61, 5%
 - K62, 5%
 - T63, 5%
 - Q64, 5%
 - E65, 5%
 - T66, 5%
 - P68, 5%
 - V69, 5%
 - H61, 5%
 - L152, 5%
 - K70, 5%
 - K71, 5%
 - I74, 5%
 - N78, 5%
 - K81, 5%
 - F82, 5%
 - E83, 5%
 - M84, 5%
 - N85, 5%
 - M86, 5%
 - D87, 5%



- Molecule 2: Myosin regulatory light chain LC-2, mantle muscle



- Molecule 3: Myosin catalytic light chain LC-1, mantle muscle



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	194.14Å 101.75Å 80.65Å 90.00° 105.74° 90.00°	Depositor
Resolution (Å)	46.73 – 2.60 46.71 – 2.61	Depositor EDS
% Data completeness (in resolution range)	92.3 (46.73-2.60) 93.5 (46.71-2.61)	Depositor EDS
R_{merge}	0.10	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.29 (at 2.61Å)	Xtriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.252 , 0.297 0.238 , 0.283	Depositor DCC
R_{free} test set	4327 reflections (10.07%)	wwPDB-VP
Wilson B-factor (Å ²)	45.6	Xtriage
Anisotropy	0.450	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 48.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.49$, $\langle L^2 \rangle = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	8985	wwPDB-VP
Average B, all atoms (Å ²)	56.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.91% 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, MLI

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	0.43	0/6631	0.69	1/8938 (0.0%)
2	B	0.36	0/1186	0.75	2/1588 (0.1%)
3	C	0.48	0/1258	0.77	1/1687 (0.1%)
All	All	0.43	0/9075	0.71	4/12213 (0.0%)

There are no bond length outliers.

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	100	GLY	N-CA-C	-7.91	93.34	113.10
3	C	138	GLY	N-CA-C	-7.01	95.58	113.10
1	A	15	LEU	N-CA-C	-5.72	95.57	111.00
2	B	101	PHE	N-CA-C	5.24	125.16	111.00

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	6493	0	6496	430	0
2	B	1166	0	1125	120	0
3	C	1239	0	1190	71	0
4	A	7	0	2	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	C	1	0	0	0	0
6	A	51	0	0	3	0
6	C	28	0	0	2	0
All	All	8985	0	8813	593	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 33.

All (593) 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)
2:B:142:MET:HE3	2:B:146:LYS:HD3	1.25	1.16
1:A:167:ARG:HH22	1:A:258:THR:HG23	1.13	1.10
1:A:191:GLN:HG2	1:A:221:GLU:HG2	1.28	1.08
1:A:259:GLN:HB2	1:A:261:LYS:HD3	1.39	1.04
2:B:9:LYS:HE3	2:B:9:LYS:HA	1.40	1.04
1:A:133:THR:HG22	1:A:135:GLY:H	1.33	0.93
1:A:403:LYS:HB3	1:A:415:GLN:HG3	1.50	0.91
1:A:678:LEU:O	1:A:680:THR:HG23	1.71	0.89
1:A:404:PRO:HB2	1:A:607:ASN:ND2	1.87	0.88
1:A:408:VAL:HG12	1:A:409:GLY:H	1.39	0.88
1:A:479:CYS:HB3	1:A:651:HIS:CE1	2.08	0.87
1:A:836:LYS:NZ	2:B:21:ALA:HB2	1.90	0.86
1:A:78:ASN:OD1	1:A:93:PHE:HB2	1.74	0.86
1:A:191:GLN:CG	1:A:221:GLU:HG2	2.04	0.86
1:A:550:PHE:HE2	1:A:593:ILE:HD12	1.41	0.85
3:C:82:THR:HG21	3:C:87:PHE:CE2	2.12	0.85
1:A:234:TYR:CZ	1:A:289:ILE:HD12	2.10	0.85
1:A:13:LEU:HD21	1:A:131:ILE:HG23	1.59	0.85
3:C:130:CYS:O	3:C:148:LYS:HD3	1.76	0.85
1:A:86:MET:CE	1:A:149:PRO:HA	2.08	0.84
1:A:817:VAL:HA	2:B:146:LYS:NZ	1.92	0.84
2:B:25:ILE:HG22	2:B:37:ASP:HB3	1.59	0.84
1:A:524:GLU:O	1:A:528:LYS:HG2	1.78	0.83
1:A:88:MET:HE1	1:A:99:ILE:HG23	1.61	0.83
2:B:84:GLU:HG3	2:B:85:ASP:H	1.42	0.83
1:A:612:LEU:HB3	1:A:623:LEU:HD13	1.57	0.83
1:A:230:VAL:HG11	1:A:441:LEU:HD11	1.61	0.83
3:C:70:PRO:O	3:C:74:GLU:HG2	1.78	0.83
2:B:101:PHE:HD1	2:B:138:ASN:HA	1.44	0.82
1:A:54:ASP:HA	1:A:71:LYS:HD3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:MET:HE3	1:A:149:PRO:HA	1.61	0.81
1:A:167:ARG:HH22	1:A:258:THR:CG2	1.94	0.80
1:A:239:THR:O	1:A:241:ARG:N	2.14	0.80
1:A:324:VAL:O	1:A:327:ILE:HG22	1.80	0.80
1:A:834:LYS:HD2	2:B:45:LEU:HD11	1.62	0.80
1:A:293:LEU:HD23	1:A:333:MET:HE1	1.63	0.80
2:B:131:PRO:HB3	2:B:141:LYS:HD3	1.63	0.79
1:A:293:LEU:HA	1:A:333:MET:HE3	1.66	0.78
1:A:300:GLU:HG3	1:A:301:ASN:H	1.49	0.78
3:C:90:ALA:O	3:C:93:THR:HG22	1.84	0.78
2:B:28:ASP:OD1	2:B:29:ARG:HG2	1.83	0.78
1:A:617:GLU:O	1:A:620:VAL:HG23	1.84	0.78
1:A:408:VAL:HG12	1:A:409:GLY:N	1.98	0.77
1:A:88:MET:HE1	1:A:99:ILE:HA	1.66	0.77
1:A:407:LYS:O	1:A:408:VAL:HG23	1.84	0.77
1:A:167:ARG:NH2	1:A:258:THR:HG23	1.97	0.76
1:A:248:PHE:HE1	1:A:250:LYS:HB3	1.50	0.76
2:B:7:ARG:O	2:B:78:VAL:HG11	1.86	0.75
1:A:240:THR:H	1:A:284:GLU:HG2	1.51	0.75
1:A:786:MET:SD	3:C:82:THR:OG1	2.45	0.75
1:A:1:MET:SD	1:A:20:LEU:HD22	2.27	0.75
1:A:406:ILE:HG22	1:A:407:LYS:N	2.01	0.74
1:A:620:VAL:HG12	1:A:624:PHE:CE1	2.23	0.74
2:B:7:ARG:C	2:B:9:LYS:H	1.90	0.74
2:B:28:ASP:HB2	2:B:37:ASP:OD2	1.87	0.74
3:C:132:ILE:HD13	3:C:145:LEU:HA	1.68	0.74
2:B:145:ILE:HA	2:B:148:LYS:HD3	1.68	0.74
2:B:119:SER:O	2:B:123:ILE:HG13	1.89	0.73
1:A:819:LYS:HE2	2:B:79:SER:HB2	1.70	0.73
1:A:300:GLU:HG3	1:A:301:ASN:N	2.03	0.72
1:A:513:ILE:HG12	1:A:517:LEU:HD12	1.72	0.72
1:A:191:GLN:HG2	1:A:221:GLU:CG	2.13	0.72
1:A:190:ILE:HG12	1:A:254:ILE:HD11	1.71	0.71
1:A:298:PHE:HB3	1:A:301:ASN:HD22	1.56	0.71
1:A:86:MET:CE	1:A:150:PRO:HD3	2.20	0.71
2:B:42:PHE:HA	2:B:45:LEU:HB2	1.73	0.71
3:C:132:ILE:CD1	3:C:145:LEU:HA	2.21	0.70
1:A:571:PRO:HB2	1:A:575:CYS:HB3	1.72	0.70
2:B:101:PHE:HB2	2:B:137:PHE:O	1.91	0.70
2:B:38:LEU:HB3	2:B:54:LEU:HD11	1.74	0.70
1:A:817:VAL:HA	2:B:146:LYS:HZ1	1.57	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:131:PRO:HB2	2:B:138:ASN:HB3	1.74	0.70
1:A:236:ASN:HD22	1:A:244:ASN:ND2	1.90	0.70
1:A:310:ASP:HB3	1:A:313:LEU:HD12	1.74	0.69
3:C:3:LEU:HD21	3:C:73:GLU:HB3	1.74	0.69
1:A:259:GLN:H	1:A:261:LYS:HE2	1.56	0.69
1:A:403:LYS:CB	1:A:415:GLN:HG3	2.23	0.69
1:A:713:ILE:N	1:A:713:ILE:HD12	2.08	0.69
1:A:88:MET:CE	1:A:99:ILE:HA	2.22	0.68
1:A:302:ILE:HG21	1:A:309:PRO:HD3	1.75	0.68
1:A:834:LYS:O	1:A:837:PRO:HD2	1.94	0.68
1:A:195:LEU:O	1:A:199:SER:HB2	1.94	0.68
2:B:142:MET:CE	2:B:146:LYS:HD3	2.16	0.68
1:A:802:LYS:O	1:A:806:GLN:HG3	1.93	0.68
1:A:805:ASP:HB3	2:B:93:MET:HE3	1.76	0.68
1:A:58:VAL:HG12	1:A:59:LYS:N	2.08	0.67
1:A:360:ILE:HA	1:A:363:LEU:HD12	1.77	0.67
1:A:58:VAL:CG1	1:A:59:LYS:N	2.58	0.67
1:A:36:VAL:CG2	1:A:69:VAL:HG21	2.24	0.67
3:C:14:VAL:HG12	3:C:36:LEU:HD12	1.77	0.67
1:A:221:GLU:O	1:A:225:VAL:HG23	1.95	0.66
1:A:290:PHE:HB3	1:A:317:ILE:CD1	2.25	0.66
1:A:82:PHE:O	1:A:85:ASN:HB2	1.94	0.66
2:B:7:ARG:C	2:B:9:LYS:N	2.47	0.66
1:A:572:LYS:O	1:A:574:GLY:N	2.28	0.66
1:A:708:GLY:O	1:A:765:LYS:HE3	1.96	0.66
1:A:727:PRO:HG2	3:C:86:GLU:HG3	1.78	0.66
1:A:437:MET:HA	1:A:622:MET:HE3	1.78	0.65
2:B:26:ASP:C	2:B:28:ASP:H	1.98	0.65
1:A:133:THR:HG22	1:A:135:GLY:N	2.08	0.65
1:A:618:PRO:O	1:A:622:MET:HG3	1.96	0.65
2:B:28:ASP:HB2	2:B:37:ASP:CG	2.17	0.65
2:B:26:ASP:CG	2:B:27:GLN:H	2.00	0.65
1:A:1:MET:HE1	1:A:5:PHE:HB3	1.79	0.65
1:A:731:PRO:HG2	1:A:734:PHE:CD1	2.32	0.65
2:B:120:LYS:HA	2:B:123:ILE:HD12	1.78	0.65
3:C:104:SER:HB3	3:C:140:ILE:HG13	1.77	0.65
2:B:8:VAL:O	2:B:10:LEU:N	2.29	0.65
3:C:153:PRO:O	3:C:155:PRO:HD3	1.97	0.65
1:A:694:ARG:HG2	1:A:699:LEU:HD12	1.79	0.64
1:A:693:LEU:HA	1:A:696:ASN:HD22	1.62	0.64
2:B:148:LYS:HE3	2:B:150:GLU:HA	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:182:LYS:HE3	1:A:463:ASP:OD2	1.97	0.64
1:A:248:PHE:CE1	1:A:250:LYS:HB3	2.33	0.64
1:A:836:LYS:HG2	1:A:839:LEU:HD11	1.80	0.64
1:A:817:VAL:HA	2:B:146:LYS:HZ3	1.60	0.64
1:A:236:ASN:HB3	1:A:244:ASN:ND2	2.13	0.63
1:A:61:ASP:O	1:A:63:THR:N	2.31	0.63
1:A:415:GLN:O	1:A:417:ARG:N	2.32	0.63
1:A:292:GLN:HB3	1:A:333:MET:HE2	1.81	0.63
1:A:391:GLY:O	1:A:615:SER:HB3	1.99	0.63
3:C:4:THR:O	3:C:8:ILE:HG13	1.99	0.62
2:B:94:PHE:CD2	2:B:110:LEU:HD21	2.34	0.62
1:A:86:MET:HE3	1:A:150:PRO:HD3	1.80	0.62
1:A:404:PRO:HB2	1:A:607:ASN:HD22	1.64	0.62
1:A:374:GLN:OE1	1:A:415:GLN:HG2	2.00	0.62
2:B:8:VAL:C	2:B:10:LEU:H	2.01	0.62
1:A:406:ILE:O	1:A:411:GLU:HG2	2.00	0.61
1:A:259:GLN:HB2	1:A:261:LYS:CD	2.25	0.61
1:A:178:SER:OG	1:A:179:GLY:N	2.33	0.61
1:A:569:LYS:HD2	1:A:569:LYS:O	2.00	0.61
1:A:187:LYS:O	1:A:191:GLN:HG3	2.00	0.61
1:A:194:ALA:HA	1:A:262:ILE:HD12	1.82	0.61
1:A:74:ILE:HG13	1:A:74:ILE:O	1.99	0.61
1:A:1:MET:HE2	1:A:5:PHE:CG	2.35	0.61
1:A:391:GLY:HA3	1:A:616:LYS:HG2	1.82	0.61
1:A:619:ILE:HG23	1:A:623:LEU:HD12	1.83	0.61
1:A:709:PHE:HB3	1:A:763:PHE:HB3	1.82	0.61
1:A:10:MET:HB3	1:A:14:CYS:HB2	1.82	0.61
1:A:784:ILE:O	1:A:788:GLN:HG3	2.00	0.61
2:B:13:ARG:HD2	2:B:13:ARG:N	2.15	0.61
1:A:390:LEU:HA	1:A:619:ILE:CD1	2.30	0.61
1:A:754:GLU:OE1	1:A:754:GLU:HA	2.01	0.61
2:B:122:GLU:HA	2:B:125:ASN:HD22	1.65	0.61
1:A:317:ILE:CD1	1:A:361:LEU:HD21	2.30	0.61
1:A:186:THR:HG23	1:A:461:VAL:HG11	1.82	0.61
1:A:280:GLN:HG2	1:A:285:ARG:HA	1.82	0.60
1:A:620:VAL:O	1:A:624:PHE:HB2	1.99	0.60
1:A:321:THR:HG22	1:A:322:LEU:N	2.15	0.60
1:A:537:GLU:O	1:A:540:CYS:HB2	2.02	0.60
1:A:317:ILE:HD12	1:A:361:LEU:HD21	1.83	0.60
1:A:832:PHE:CE1	1:A:836:LYS:HE2	2.36	0.60
1:A:432:SER:O	1:A:436:ARG:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:THR:OG1	1:A:148:MET:HA	2.02	0.60
1:A:1:MET:CE	1:A:5:PHE:HB3	2.32	0.60
1:A:230:VAL:CG1	1:A:441:LEU:HD11	2.31	0.60
1:A:579:HIS:ND1	1:A:593:ILE:HB	2.17	0.60
3:C:135:ASP:OD1	3:C:136:ILE:N	2.34	0.59
1:A:54:ASP:HA	1:A:71:LYS:CD	2.32	0.59
2:B:137:PHE:HZ	2:B:142:MET:HG3	1.67	0.59
1:A:345:PHE:CE1	1:A:444:ARG:HB3	2.38	0.59
1:A:413:VAL:C	1:A:415:GLN:H	2.06	0.59
2:B:42:PHE:HA	2:B:45:LEU:CB	2.33	0.59
1:A:290:PHE:HB3	1:A:317:ILE:HD11	1.84	0.59
1:A:86:MET:HE2	1:A:150:PRO:HD3	1.84	0.59
1:A:131:ILE:HG22	1:A:151:HIS:CE1	2.38	0.59
1:A:47:GLU:O	1:A:58:VAL:HG13	2.03	0.58
2:B:101:PHE:CD1	2:B:138:ASN:HA	2.31	0.58
2:B:123:ILE:HG22	2:B:127:TRP:CD1	2.38	0.58
2:B:8:VAL:C	2:B:10:LEU:N	2.56	0.58
1:A:258:THR:N	1:A:261:LYS:HE2	2.18	0.58
1:A:298:PHE:CB	1:A:301:ASN:HD22	2.15	0.58
1:A:406:ILE:HG22	1:A:407:LYS:H	1.66	0.58
3:C:14:VAL:CG1	3:C:36:LEU:HD12	2.34	0.58
1:A:836:LYS:HZ3	2:B:21:ALA:HB2	1.68	0.58
1:A:711:ASN:HB2	1:A:764:PHE:HB2	1.86	0.57
2:B:7:ARG:O	2:B:9:LYS:N	2.37	0.57
1:A:555:TYR:OH	1:A:567:LYS:HE3	2.04	0.57
1:A:836:LYS:HG2	1:A:839:LEU:CG	2.34	0.57
2:B:132:LEU:HD21	2:B:137:PHE:HD1	1.68	0.57
3:C:78:LYS:HE3	3:C:78:LYS:HA	1.87	0.57
1:A:293:LEU:HD23	1:A:333:MET:CE	2.33	0.57
1:A:436:ARG:CZ	1:A:623:LEU:HD23	2.35	0.57
3:C:99:GLN:OE1	3:C:99:GLN:HA	2.02	0.57
2:B:26:ASP:CG	2:B:27:GLN:N	2.58	0.57
1:A:119:PHE:CE1	1:A:698:VAL:HA	2.40	0.57
1:A:755:TYR:O	1:A:756:ARG:HG2	2.05	0.57
1:A:1:MET:N	1:A:86:MET:SD	2.74	0.57
1:A:107:TYR:HA	1:A:111:PHE:O	2.05	0.57
1:A:2:THR:OG1	1:A:149:PRO:HD3	2.04	0.57
1:A:305:ILE:HG23	1:A:358:GLY:HA3	1.85	0.56
3:C:135:ASP:O	3:C:136:ILE:C	2.43	0.56
3:C:82:THR:HG21	3:C:87:PHE:CZ	2.40	0.56
1:A:1:MET:CE	1:A:15:LEU:O	2.53	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:135:ASP:O	3:C:137:ASP:N	2.38	0.56
3:C:141:LYS:HB2	3:C:144:ASP:HB2	1.87	0.56
1:A:609:VAL:HG12	1:A:613:GLN:HE21	1.71	0.56
1:A:832:PHE:HE1	1:A:836:LYS:HE2	1.71	0.56
1:A:130:PRO:O	1:A:132:TYR:N	2.38	0.56
1:A:743:LYS:HD2	6:A:1062:HOH:O	2.05	0.56
3:C:80:THR:O	3:C:80:THR:HG23	2.06	0.56
1:A:36:VAL:HG21	1:A:69:VAL:HG21	1.88	0.56
1:A:88:MET:HE1	1:A:99:ILE:CA	2.34	0.56
1:A:500:GLN:HG3	1:A:510:TRP:NE1	2.21	0.56
1:A:404:PRO:CB	1:A:607:ASN:HD22	2.19	0.56
2:B:10:LEU:HB2	2:B:78:VAL:HG21	1.88	0.56
1:A:298:PHE:HB3	1:A:301:ASN:ND2	2.19	0.56
1:A:390:LEU:HA	1:A:619:ILE:HD11	1.88	0.56
1:A:828:TRP:CZ2	2:B:57:MET:HB3	2.40	0.56
3:C:104:SER:HB3	3:C:140:ILE:CG1	2.35	0.56
1:A:259:GLN:H	1:A:261:LYS:CE	2.19	0.56
1:A:755:TYR:HA	1:A:763:PHE:O	2.06	0.56
1:A:126:TYR:O	1:A:681:PRO:HG3	2.06	0.55
1:A:347:ASP:HA	1:A:350:LYS:HB3	1.87	0.55
1:A:688:LEU:O	1:A:692:GLN:HG3	2.06	0.55
1:A:786:MET:HB3	3:C:82:THR:OG1	2.05	0.55
1:A:529:PRO:O	1:A:530:MET:HB2	2.06	0.55
1:A:568:PRO:HG3	1:A:578:ALA:CB	2.36	0.55
1:A:613:GLN:HB3	1:A:624:PHE:CE2	2.41	0.55
1:A:413:VAL:O	1:A:413:VAL:CG1	2.54	0.55
1:A:739:VAL:HG13	1:A:743:LYS:HE2	1.87	0.55
1:A:151:HIS:CD2	1:A:153:PHE:H	2.24	0.55
1:A:344:GLY:O	1:A:345:PHE:CD2	2.59	0.55
1:A:190:ILE:HG12	1:A:254:ILE:CD1	2.36	0.55
1:A:88:MET:HE1	1:A:99:ILE:CG2	2.32	0.55
2:B:66:ASN:OD1	2:B:66:ASN:N	2.33	0.55
1:A:308:VAL:O	1:A:310:ASP:N	2.38	0.55
1:A:422:VAL:HG23	1:A:423:THR:N	2.22	0.55
3:C:117:ARG:HH11	3:C:117:ARG:HG3	1.71	0.55
1:A:805:ASP:HB3	2:B:93:MET:CE	2.36	0.55
1:A:550:PHE:CE2	1:A:593:ILE:HD12	2.32	0.55
1:A:379:GLY:C	1:A:381:ALA:H	2.10	0.54
1:A:4:ASP:HB3	1:A:7:ASP:HB2	1.89	0.54
2:B:13:ARG:O	2:B:17:GLU:HB2	2.08	0.54
1:A:525:LEU:O	1:A:532:ILE:HG13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:551:LYS:HE2	1:A:555:TYR:CE1	2.41	0.54
2:B:101:PHE:CZ	2:B:140:ASN:HB2	2.43	0.54
1:A:259:GLN:CB	1:A:261:LYS:HD3	2.26	0.54
1:A:819:LYS:HE3	2:B:76:GLU:O	2.08	0.54
2:B:38:LEU:CB	2:B:54:LEU:HD11	2.38	0.54
1:A:240:THR:H	1:A:284:GLU:CG	2.19	0.54
1:A:704:ILE:O	1:A:707:LYS:HG2	2.08	0.54
1:A:830:ARG:O	1:A:833:ASN:HB2	2.06	0.54
2:B:26:ASP:HA	2:B:37:ASP:OD2	2.07	0.54
1:A:513:ILE:HD11	1:A:517:LEU:HD13	1.89	0.54
1:A:126:TYR:CE1	1:A:679:LYS:HA	2.43	0.54
1:A:368:TRP:HZ2	1:A:426:ILE:HD11	1.72	0.53
1:A:58:VAL:CG1	1:A:59:LYS:H	2.20	0.53
1:A:693:LEU:HB3	1:A:699:LEU:HG	1.90	0.53
2:B:141:LYS:O	2:B:145:ILE:HG13	2.08	0.53
1:A:324:VAL:HB	1:A:327:ILE:HG21	1.90	0.53
1:A:750:LEU:HD13	1:A:771:MET:CE	2.38	0.53
2:B:28:ASP:HB2	2:B:37:ASP:OD1	2.09	0.53
1:A:257:GLY:C	1:A:261:LYS:HE2	2.29	0.53
1:A:793:GLY:HA3	1:A:797:ARG:HH21	1.73	0.53
1:A:817:VAL:O	1:A:821:LEU:HG	2.08	0.53
1:A:107:TYR:CD2	1:A:684:ILE:HD11	2.43	0.53
2:B:9:LYS:HA	2:B:9:LYS:CE	2.21	0.53
3:C:119:THR:HG22	3:C:121:ASP:N	2.24	0.53
1:A:141:ARG:NH2	1:A:200:LEU:HD23	2.24	0.53
1:A:145:ARG:HG3	1:A:154:SER:OG	2.09	0.53
1:A:46:ALA:CB	1:A:60:THR:HA	2.38	0.53
1:A:379:GLY:O	1:A:381:ALA:N	2.42	0.53
3:C:74:GLU:O	3:C:77:SER:HB2	2.08	0.52
3:C:83:ALA:HB1	3:C:85:ASP:OD2	2.09	0.52
1:A:152:LEU:O	1:A:155:ILE:HG23	2.09	0.52
1:A:404:PRO:HG2	1:A:414:THR:OG1	2.08	0.52
1:A:5:PHE:N	1:A:5:PHE:CD2	2.70	0.52
1:A:725:LEU:HD13	1:A:748:LEU:HD11	1.91	0.52
1:A:836:LYS:HG2	1:A:839:LEU:CD1	2.38	0.52
1:A:624:PHE:O	1:A:625:THR:C	2.47	0.52
1:A:78:ASN:ND2	1:A:92:THR:H	2.08	0.52
3:C:80:THR:HA	6:C:1003:HOH:O	2.08	0.52
2:B:25:ILE:CG2	2:B:37:ASP:HB3	2.37	0.52
2:B:89:ASN:O	2:B:92:SER:HB2	2.10	0.52
1:A:2:THR:HG21	1:A:148:MET:CA	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:14:CYS:O	1:A:15:LEU:CB	2.58	0.52
1:A:307:ALA:HB1	1:A:314:TYR:OH	2.09	0.52
1:A:54:ASP:OD1	1:A:71:LYS:HD3	2.10	0.52
1:A:721:ARG:NH2	1:A:773:GLU:OE2	2.39	0.52
1:A:782:LYS:O	1:A:786:MET:HG3	2.10	0.52
1:A:293:LEU:CA	1:A:333:MET:HE3	2.38	0.52
1:A:380:THR:O	1:A:384:GLU:HG2	2.10	0.52
1:A:785:SER:HA	1:A:788:GLN:OE1	2.09	0.52
2:B:28:ASP:O	2:B:30:ASP:N	2.43	0.52
1:A:834:LYS:C	1:A:837:PRO:HD2	2.30	0.51
2:B:144:ASP:O	2:B:148:LYS:HA	2.10	0.51
3:C:118:ILE:HG23	3:C:122:GLN:HB2	1.93	0.51
1:A:266:ASP:HB2	1:A:446:ASN:OD1	2.10	0.51
1:A:568:PRO:HG3	1:A:578:ALA:HB3	1.91	0.51
2:B:65:LEU:HD11	2:B:70:PHE:HA	1.93	0.51
3:C:100:GLY:HA2	3:C:142:TYR:CE2	2.45	0.51
3:C:30:ALA:O	3:C:33:VAL:HG23	2.11	0.51
1:A:24:THR:HG22	1:A:24:THR:O	2.10	0.51
1:A:289:ILE:HG23	1:A:290:PHE:N	2.26	0.51
1:A:836:LYS:HZ2	2:B:21:ALA:HB2	1.72	0.51
1:A:786:MET:O	1:A:789:ALA:HB3	2.11	0.51
1:A:41:PHE:CD1	1:A:41:PHE:N	2.78	0.51
1:A:173:LEU:N	1:A:173:LEU:HD23	2.26	0.51
1:A:5:PHE:HD1	1:A:17:ARG:HB2	1.75	0.51
3:C:14:VAL:HG12	3:C:36:LEU:CD1	2.40	0.51
2:B:26:ASP:C	2:B:28:ASP:N	2.64	0.51
2:B:99:GLN:C	2:B:101:PHE:H	2.11	0.51
1:A:46:ALA:HB1	1:A:59:LYS:O	2.11	0.50
1:A:804:GLN:HG2	3:C:17:LEU:HD13	1.92	0.50
1:A:406:ILE:CG1	1:A:414:THR:HG21	2.42	0.50
2:B:28:ASP:O	2:B:29:ARG:C	2.49	0.50
1:A:126:TYR:O	1:A:127:ARG:HB3	2.11	0.50
1:A:185:ASN:O	1:A:189:VAL:HG23	2.10	0.50
1:A:479:CYS:HB3	1:A:651:HIS:HE1	1.73	0.50
1:A:92:THR:HA	1:A:711:ASN:HD21	1.76	0.50
2:B:96:GLU:H	2:B:96:GLU:CD	2.15	0.50
2:B:99:GLN:HA	2:B:101:PHE:CE2	2.46	0.50
3:C:12:ARG:NH1	3:C:65:LEU:CD2	2.75	0.50
1:A:408:VAL:CG1	1:A:409:GLY:H	2.10	0.50
1:A:404:PRO:CB	1:A:607:ASN:ND2	2.67	0.50
1:A:290:PHE:HB3	1:A:317:ILE:HD13	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:LEU:O	1:A:619:ILE:HD12	2.11	0.50
1:A:440:TRP:CD1	1:A:621:LYS:HD2	2.47	0.50
1:A:324:VAL:HB	1:A:327:ILE:CG2	2.42	0.49
1:A:479:CYS:HB3	1:A:651:HIS:ND1	2.27	0.49
1:A:291:TYR:CE2	1:A:317:ILE:HG23	2.47	0.49
1:A:599:LYS:O	1:A:647:ILE:HD12	2.13	0.49
1:A:836:LYS:C	1:A:838:LEU:N	2.65	0.49
1:A:86:MET:HE3	1:A:149:PRO:CA	2.37	0.49
1:A:181:GLY:HA2	6:A:1056:HOH:O	2.11	0.49
1:A:239:THR:HA	1:A:284:GLU:HG2	1.95	0.49
1:A:341:ASP:O	1:A:344:GLY:HA2	2.12	0.49
1:A:529:PRO:O	1:A:530:MET:CB	2.60	0.49
3:C:36:LEU:CD2	3:C:68:ILE:HD13	2.41	0.49
2:B:25:ILE:O	2:B:26:ASP:O	2.31	0.49
1:A:155:ILE:HD13	1:A:670:VAL:CG2	2.42	0.49
1:A:276:ARG:HG2	1:A:286:ASN:HA	1.95	0.49
1:A:523:ILE:O	1:A:527:GLU:HG2	2.13	0.49
2:B:9:LYS:HB3	2:B:78:VAL:CG1	2.42	0.49
1:A:112:ILE:HG21	1:A:125:PRO:HB3	1.95	0.49
1:A:133:THR:C	1:A:135:GLY:H	2.15	0.49
3:C:153:PRO:C	3:C:155:PRO:HD3	2.33	0.49
1:A:191:GLN:O	1:A:194:ALA:HB3	2.13	0.49
1:A:500:GLN:HG3	1:A:510:TRP:CD1	2.48	0.49
1:A:572:LYS:H	1:A:575:CYS:HB3	1.77	0.49
2:B:148:LYS:HG3	2:B:150:GLU:H	1.78	0.48
1:A:274:LYS:O	1:A:277:VAL:HG23	2.12	0.48
1:A:414:THR:O	1:A:416:GLY:N	2.46	0.48
3:C:36:LEU:HD21	3:C:68:ILE:HD13	1.94	0.48
3:C:85:ASP:N	3:C:85:ASP:OD2	2.35	0.48
1:A:136:LEU:O	1:A:139:LYS:N	2.45	0.48
1:A:834:LYS:HD3	2:B:47:ARG:NH2	2.28	0.48
1:A:88:MET:HE3	1:A:99:ILE:O	2.13	0.48
2:B:88:ARG:HG2	2:B:143:VAL:HG21	1.94	0.48
3:C:100:GLY:HA2	3:C:142:TYR:CZ	2.48	0.48
1:A:255:HIS:CG	1:A:455:ARG:HD3	2.48	0.48
1:A:678:LEU:O	1:A:679:LYS:C	2.52	0.48
1:A:59:LYS:HE2	1:A:64:GLN:OE1	2.14	0.48
2:B:10:LEU:HA	2:B:14:GLN:OE1	2.14	0.48
2:B:148:LYS:HE3	2:B:150:GLU:CA	2.42	0.48
3:C:103:SER:HA	3:C:139:ASN:CG	2.34	0.48
1:A:832:PHE:HE1	1:A:836:LYS:CE	2.27	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:99:GLN:HA	2:B:101:PHE:CD2	2.49	0.48
3:C:73:GLU:HA	3:C:76:SER:OG	2.13	0.48
1:A:321:THR:CG2	1:A:322:LEU:N	2.77	0.47
1:A:406:ILE:HD12	1:A:414:THR:HG21	1.96	0.47
1:A:415:GLN:O	1:A:416:GLY:C	2.52	0.47
1:A:129:LEU:HD13	1:A:131:ILE:HD11	1.96	0.47
1:A:604:ILE:H	1:A:644:PHE:HA	1.79	0.47
1:A:621:LYS:HB3	1:A:621:LYS:HE2	1.44	0.47
1:A:645:GLN:OE1	1:A:645:GLN:HA	2.14	0.47
1:A:518:ASP:OD2	1:A:703:ARG:NH2	2.47	0.47
1:A:85:ASN:HD22	1:A:86:MET:H	1.61	0.47
1:A:342:VAL:C	1:A:344:GLY:H	2.16	0.47
1:A:375:ALA:O	1:A:402:LEU:HD22	2.14	0.47
1:A:390:LEU:HD22	1:A:619:ILE:CD1	2.45	0.47
2:B:132:LEU:HD23	2:B:137:PHE:HA	1.97	0.47
1:A:236:ASN:HD22	1:A:244:ASN:HD21	1.61	0.47
1:A:317:ILE:HD12	1:A:361:LEU:CD2	2.44	0.47
1:A:513:ILE:CG1	1:A:517:LEU:HD12	2.43	0.47
2:B:101:PHE:HD1	2:B:138:ASN:CA	2.22	0.47
2:B:85:ASP:O	2:B:88:ARG:N	2.47	0.47
1:A:282:SER:HB3	1:A:283:ALA:H	1.55	0.47
1:A:298:PHE:N	1:A:299:PRO:HD3	2.30	0.47
1:A:242:ASN:HD22	1:A:243:ASN:N	2.13	0.47
1:A:258:THR:HG22	1:A:258:THR:O	2.15	0.47
2:B:9:LYS:O	2:B:11:SER:N	2.46	0.47
1:A:786:MET:CB	3:C:82:THR:OG1	2.63	0.47
3:C:11:VAL:HA	3:C:40:LEU:HD21	1.96	0.47
2:B:144:ASP:O	2:B:148:LYS:N	2.48	0.47
2:B:25:ILE:HG23	2:B:37:ASP:O	2.14	0.47
2:B:19:LYS:HA	2:B:67:PHE:CE1	2.50	0.47
3:C:132:ILE:HA	6:C:1004:HOH:O	2.14	0.47
1:A:141:ARG:HH22	1:A:200:LEU:HD23	1.80	0.47
1:A:289:ILE:HD13	1:A:357:THR:HG21	1.96	0.47
1:A:486:ARG:HG2	1:A:523:ILE:HD13	1.97	0.47
1:A:617:GLU:C	1:A:620:VAL:HG23	2.34	0.47
1:A:644:PHE:CD1	1:A:644:PHE:N	2.82	0.47
1:A:820:TRP:HB3	2:B:146:LYS:HZ1	1.80	0.47
2:B:66:ASN:HB2	2:B:67:PHE:H	1.49	0.47
3:C:44:PRO:HA	3:C:48:GLN:OE1	2.15	0.47
1:A:184:GLU:O	1:A:187:LYS:HB3	2.15	0.46
1:A:342:VAL:C	1:A:344:GLY:N	2.66	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2:THR:HB	1:A:147:GLU:O	2.14	0.46
1:A:141:ARG:HD3	1:A:196:VAL:HG12	1.97	0.46
1:A:64:GLN:O	1:A:65:GLU:HB2	2.14	0.46
1:A:669:PHE:CD1	1:A:669:PHE:N	2.84	0.46
1:A:239:THR:O	1:A:242:ASN:N	2.44	0.46
1:A:572:LYS:HB3	1:A:575:CYS:HB2	1.97	0.46
1:A:661:ASN:HD22	1:A:661:ASN:N	2.14	0.46
1:A:58:VAL:O	1:A:66:THR:HA	2.16	0.46
1:A:760:THR:OG1	1:A:761:LYS:HG3	2.14	0.46
1:A:513:ILE:HD11	1:A:517:LEU:CD1	2.45	0.46
1:A:151:HIS:HD2	1:A:153:PHE:H	1.60	0.46
1:A:391:GLY:O	1:A:615:SER:CB	2.64	0.46
2:B:35:MET:CE	2:B:54:LEU:HD23	2.46	0.46
1:A:321:THR:HG22	1:A:323:THR:H	1.81	0.46
1:A:63:THR:O	1:A:64:GLN:O	2.33	0.46
3:C:135:ASP:OD1	3:C:136:ILE:HG13	2.16	0.46
1:A:46:ALA:HA	1:A:61:ASP:OD1	2.15	0.46
2:B:9:LYS:HE3	2:B:9:LYS:CA	2.28	0.46
3:C:88:MET:O	3:C:92:LYS:HG3	2.16	0.46
1:A:547:ASP:OD2	1:A:594:ALA:HA	2.15	0.46
3:C:96:ARG:NH2	3:C:106:GLU:OE2	2.49	0.46
3:C:132:ILE:HD13	3:C:145:LEU:CA	2.44	0.46
1:A:141:ARG:NH1	1:A:199:SER:OG	2.48	0.46
1:A:1:MET:HE2	1:A:5:PHE:CD2	2.51	0.46
1:A:84:MET:CE	1:A:105:SER:HB2	2.46	0.45
1:A:358:GLY:O	1:A:361:LEU:HB2	2.16	0.45
1:A:714:ILE:HG13	1:A:717:GLU:OE1	2.16	0.45
2:B:122:GLU:O	2:B:126:VAL:HG23	2.15	0.45
1:A:196:VAL:HA	1:A:199:SER:HB2	1.97	0.45
1:A:238:LYS:HD2	1:A:324:VAL:HG22	1.99	0.45
1:A:197:ALA:HB2	1:A:262:ILE:HG13	1.98	0.45
1:A:831:LEU:HD21	2:B:42:PHE:CZ	2.51	0.45
1:A:812:LEU:HD22	2:B:82:ASP:CG	2.37	0.45
1:A:131:ILE:O	1:A:151:HIS:HE1	2.00	0.45
1:A:2:THR:HG1	1:A:148:MET:HA	1.80	0.45
1:A:436:ARG:HH11	1:A:623:LEU:HA	1.81	0.45
1:A:748:LEU:HD23	1:A:748:LEU:HA	1.83	0.45
1:A:128:ARG:HH11	1:A:128:ARG:HG2	1.81	0.45
1:A:386:VAL:HG23	1:A:387:ALA:N	2.32	0.45
1:A:819:LYS:HD2	1:A:819:LYS:HA	1.86	0.45
1:A:199:SER:O	1:A:200:LEU:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:139:ASN:HB3	3:C:140:ILE:H	1.37	0.45
1:A:2:THR:HG21	1:A:148:MET:HA	1.98	0.45
1:A:63:THR:O	1:A:64:GLN:HB2	2.17	0.45
1:A:807:ARG:HG3	3:C:20:PHE:CD2	2.52	0.45
1:A:351:LEU:HD21	1:A:355:LYS:HE3	1.97	0.45
1:A:593:ILE:HA	1:A:593:ILE:HD13	1.61	0.45
1:A:783:ILE:HA	1:A:786:MET:HG3	1.98	0.45
2:B:106:TYR:CE2	2:B:110:LEU:HD13	2.52	0.45
3:C:9:GLU:HA	3:C:9:GLU:OE1	2.17	0.45
1:A:239:THR:O	1:A:240:THR:C	2.55	0.45
1:A:24:THR:CG2	1:A:24:THR:O	2.64	0.45
1:A:581:CYS:HB2	1:A:589:VAL:O	2.17	0.45
2:B:84:GLU:HG3	2:B:85:ASP:N	2.22	0.45
2:B:98:GLY:O	2:B:99:GLN:O	2.35	0.45
1:A:194:ALA:HA	1:A:262:ILE:CD1	2.45	0.44
1:A:406:ILE:HG13	1:A:414:THR:HG21	1.98	0.44
1:A:579:HIS:ND1	1:A:593:ILE:N	2.56	0.44
3:C:82:THR:CG2	3:C:87:PHE:CZ	3.00	0.44
1:A:369:LYS:HD2	1:A:370:GLN:H	1.82	0.44
2:B:25:ILE:HG21	2:B:33:ILE:HG23	2.00	0.44
1:A:37:PRO:HD3	6:A:1035:HOH:O	2.17	0.44
1:A:436:ARG:NH1	1:A:623:LEU:HA	2.31	0.44
1:A:36:VAL:HG12	1:A:44:VAL:O	2.18	0.44
1:A:128:ARG:NH1	1:A:128:ARG:HG2	2.32	0.44
1:A:230:VAL:HG12	1:A:441:LEU:HD21	1.98	0.44
1:A:286:ASN:OD1	1:A:287:TYR:N	2.41	0.44
1:A:348:GLU:O	1:A:351:LEU:HB3	2.17	0.44
1:A:413:VAL:O	1:A:413:VAL:HG13	2.17	0.44
1:A:87:ASP:HA	1:A:115:TYR:O	2.18	0.44
2:B:48:VAL:HA	2:B:49:PRO:HD3	1.63	0.44
2:B:55:ASN:O	2:B:58:LEU:HB2	2.17	0.44
3:C:117:ARG:NH1	3:C:117:ARG:HG3	2.33	0.44
1:A:2:THR:OG1	1:A:149:PRO:CD	2.65	0.44
1:A:64:GLN:HA	1:A:64:GLN:OE1	2.18	0.44
1:A:736:ASP:OD1	1:A:738:LYS:N	2.51	0.44
1:A:91:LEU:HB2	1:A:94:LEU:CD2	2.48	0.44
1:A:820:TRP:CB	2:B:146:LYS:HZ1	2.31	0.44
1:A:826:TRP:O	1:A:827:GLU:C	2.56	0.44
1:A:85:ASN:ND2	1:A:86:MET:N	2.66	0.44
3:C:67:GLU:O	3:C:70:PRO:HG2	2.17	0.44
1:A:750:LEU:HD13	1:A:771:MET:HE1	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:32:PHE:CE2	2:B:64:GLN:NE2	2.86	0.43
2:B:85:ASP:O	2:B:86:ALA:C	2.56	0.43
3:C:119:THR:HG22	3:C:121:ASP:H	1.82	0.43
1:A:238:LYS:HD2	1:A:324:VAL:HG13	2.01	0.43
1:A:61:ASP:C	1:A:63:THR:H	2.22	0.43
2:B:132:LEU:CD2	2:B:137:PHE:HD1	2.31	0.43
3:C:118:ILE:CG2	3:C:119:THR:N	2.80	0.43
3:C:30:ALA:C	3:C:32:LYS:H	2.19	0.43
1:A:832:PHE:CE1	1:A:836:LYS:CE	3.00	0.43
2:B:137:PHE:CZ	2:B:142:MET:HG3	2.50	0.43
2:B:38:LEU:O	2:B:41:MET:HB3	2.18	0.43
1:A:786:MET:HE1	3:C:80:THR:O	2.19	0.43
1:A:579:HIS:O	1:A:580:PHE:HB3	2.18	0.43
1:A:617:GLU:HA	1:A:620:VAL:CG2	2.49	0.43
1:A:828:TRP:CE2	2:B:57:MET:HE2	2.53	0.43
1:A:474:SER:OG	1:A:475:PHE:N	2.50	0.43
1:A:71:LYS:O	1:A:74:ILE:HG12	2.19	0.43
2:B:134:ASN:HA	2:B:134:ASN:HD22	1.59	0.43
1:A:396:ASP:O	1:A:399:LYS:HB2	2.19	0.43
1:A:645:GLN:HB3	1:A:646:THR:H	1.56	0.43
1:A:512:PHE:CE2	1:A:707:LYS:HD3	2.54	0.43
1:A:830:ARG:O	1:A:834:LYS:HG3	2.18	0.43
2:B:10:LEU:HG	2:B:15:MET:CG	2.49	0.43
1:A:809:GLY:O	1:A:813:ILE:HG13	2.18	0.43
3:C:65:LEU:HD12	3:C:65:LEU:O	2.18	0.43
1:A:129:LEU:CD1	1:A:131:ILE:HD11	2.49	0.43
1:A:133:THR:C	1:A:135:GLY:N	2.72	0.43
1:A:352:SER:HB3	1:A:618:PRO:HG3	2.00	0.43
1:A:660:LYS:O	1:A:660:LYS:HD2	2.19	0.43
2:B:50:PRO:HB2	2:B:53:GLU:HG3	2.01	0.43
1:A:190:ILE:CG1	1:A:254:ILE:HD11	2.44	0.42
1:A:230:VAL:CG1	1:A:441:LEU:HD21	2.49	0.42
1:A:440:TRP:HD1	1:A:443:ARG:NH1	2.17	0.42
1:A:425:SER:OG	1:A:605:ASN:ND2	2.52	0.42
1:A:836:LYS:HG2	1:A:839:LEU:HG	2.00	0.42
1:A:383:ALA:HA	1:A:386:VAL:HG22	2.01	0.42
1:A:550:PHE:HE2	1:A:593:ILE:CD1	2.22	0.42
1:A:793:GLY:HA3	1:A:797:ARG:NH2	2.34	0.42
3:C:102:ILE:HG13	3:C:142:TYR:HD2	1.83	0.42
1:A:731:PRO:HG2	1:A:734:PHE:HD1	1.82	0.42
1:A:786:MET:CE	3:C:80:THR:O	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:112:GLU:HG3	2:B:123:ILE:HD11	2.02	0.42
1:A:407:LYS:HA	1:A:411:GLU:HA	2.00	0.42
1:A:559:LEU:C	1:A:561:LYS:H	2.23	0.42
2:B:129:ASP:CG	2:B:130:ALA:N	2.73	0.42
1:A:170:GLN:HB2	1:A:459:ILE:HG12	2.01	0.42
1:A:91:LEU:HB2	1:A:94:LEU:HD23	2.00	0.42
3:C:4:THR:HG23	3:C:7:GLU:HG3	2.00	0.42
2:B:28:ASP:CB	2:B:32:PHE:O	2.67	0.42
1:A:308:VAL:HG23	1:A:308:VAL:O	2.19	0.42
1:A:546:SER:C	1:A:548:THR:N	2.71	0.42
1:A:603:PRO:CB	1:A:644:PHE:HB3	2.50	0.42
1:A:345:PHE:HE1	1:A:444:ARG:HB3	1.83	0.42
1:A:61:ASP:HB2	1:A:62:LYS:H	1.67	0.42
1:A:829:TRP:HZ3	2:B:77:LYS:HD3	1.84	0.42
1:A:24:THR:HG23	1:A:81:LYS:HA	2.01	0.42
1:A:352:SER:CB	1:A:618:PRO:HG3	2.49	0.42
1:A:793:GLY:CA	1:A:797:ARG:HH21	2.32	0.42
1:A:836:LYS:O	1:A:839:LEU:HG	2.20	0.42
2:B:88:ARG:CG	2:B:143:VAL:HG11	2.50	0.42
2:B:22:PHE:CE2	2:B:66:ASN:O	2.72	0.42
2:B:58:LEU:HA	2:B:58:LEU:HD23	1.90	0.42
3:C:102:ILE:HG13	3:C:142:TYR:CD2	2.55	0.42
3:C:130:CYS:HB2	3:C:132:ILE:HD12	2.01	0.42
1:A:698:VAL:O	1:A:702:ILE:HD12	2.20	0.42
2:B:145:ILE:O	2:B:148:LYS:HB2	2.19	0.42
3:C:119:THR:CG2	3:C:121:ASP:H	2.33	0.42
1:A:236:ASN:HB3	1:A:244:ASN:HD21	1.82	0.41
1:A:568:PRO:CG	1:A:578:ALA:HB3	2.50	0.41
1:A:58:VAL:HG13	1:A:59:LYS:H	1.85	0.41
1:A:796:MET:HE2	3:C:35:ASP:OD1	2.21	0.41
3:C:61:LYS:HG2	3:C:62:ALA:N	2.35	0.41
1:A:368:TRP:O	1:A:419:LYS:HE3	2.21	0.41
1:A:602:ASP:N	1:A:603:PRO:CD	2.84	0.41
1:A:700:GLU:OE2	1:A:703:ARG:NH1	2.50	0.41
1:A:718:PHE:CD2	1:A:741:THR:HG23	2.55	0.41
1:A:512:PHE:HZ	1:A:707:LYS:O	2.03	0.41
2:B:150:GLU:OE1	2:B:150:GLU:HA	2.21	0.41
1:A:179:GLY:C	1:A:674:ILE:HG12	2.41	0.41
1:A:709:PHE:CD2	1:A:765:LYS:HG2	2.56	0.41
1:A:85:ASN:O	1:A:106:ARG:HD2	2.21	0.41
2:B:50:PRO:HG2	2:B:53:GLU:OE1	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:84:MET:HE1	1:A:105:SER:HB2	2.03	0.41
1:A:15:LEU:HD12	1:A:19:LYS:HD3	2.03	0.41
1:A:754:GLU:OE1	1:A:754:GLU:CA	2.67	0.41
3:C:42:MET:HE1	3:C:76:SER:N	2.36	0.41
1:A:1:MET:HE3	1:A:15:LEU:O	2.21	0.41
1:A:38:ASP:OD2	1:A:44:VAL:HG21	2.20	0.41
1:A:1:MET:CE	1:A:5:PHE:CG	3.03	0.41
1:A:46:ALA:HB2	1:A:60:THR:HA	2.02	0.41
1:A:711:ASN:C	1:A:712:ARG:HG3	2.40	0.41
2:B:14:GLN:O	2:B:18:LEU:HG	2.21	0.41
2:B:35:MET:HB3	2:B:35:MET:HE2	1.99	0.41
1:A:328:ASP:O	1:A:332:GLU:HG2	2.21	0.41
1:A:569:LYS:HA	1:A:570:PRO:HD3	1.97	0.41
1:A:726:ALA:N	1:A:727:PRO:HD3	2.36	0.41
1:A:164:LEU:HD21	1:A:260:GLY:HA2	2.02	0.40
1:A:392:VAL:HG12	1:A:393:ASN:N	2.36	0.40
1:A:620:VAL:O	1:A:621:LYS:C	2.59	0.40
1:A:68:VAL:O	1:A:68:VAL:HG12	2.21	0.40
1:A:756:ARG:HG2	1:A:756:ARG:NH1	2.35	0.40
1:A:820:TRP:CE3	1:A:821:LEU:HD23	2.57	0.40
2:B:91:PHE:CD2	2:B:139:TYR:HB2	2.57	0.40
3:C:104:SER:O	3:C:108:ARG:HG3	2.21	0.40
2:B:26:ASP:CG	2:B:31:GLY:HA2	2.41	0.40
1:A:234:TYR:CE1	1:A:289:ILE:HD12	2.53	0.40
1:A:406:ILE:CD1	1:A:414:THR:HG21	2.52	0.40
1:A:801:LYS:HG2	1:A:801:LYS:O	2.21	0.40
1:A:85:ASN:HD22	1:A:86:MET:N	2.19	0.40
1:A:15:LEU:CD1	1:A:19:LYS:HD3	2.51	0.40
1:A:379:GLY:C	1:A:381:ALA:N	2.74	0.40
2:B:119:SER:C	2:B:121:GLU:N	2.75	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	802/839 (96%)	686 (86%)	79 (10%)	37 (5%)	2	3
2	B	143/153 (94%)	97 (68%)	26 (18%)	20 (14%)	0	0
3	C	154/159 (97%)	134 (87%)	10 (6%)	10 (6%)	1	1
All	All	1099/1151 (96%)	917 (83%)	115 (10%)	67 (6%)	1	1

All (67) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	62	LYS
1	A	131	ILE
1	A	178	SER
1	A	200	LEU
1	A	240	THR
1	A	408	VAL
1	A	453	ALA
1	A	573	ALA
1	A	576	ALA
1	A	679	LYS
2	B	26	ASP
2	B	29	ARG
2	B	81	THR
2	B	99	GLN
3	C	136	ILE
3	C	139	ASN
3	C	155	PRO
1	A	15	LEU
1	A	64	GLN
1	A	286	ASN
1	A	377	ALA
1	A	378	ASP
1	A	380	THR
1	A	415	GLN
1	A	416	GLY
1	A	571	PRO
1	A	644	PHE
2	B	9	LYS
2	B	49	PRO
2	B	51	ASP
2	B	66	ASN

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Mol	Chain	Res	Type
2	B	79	SER
2	B	117	ASN
3	C	58	MET
3	C	59	GLY
3	C	82	THR
1	A	65	GLU
1	A	127	ARG
1	A	306	LEU
1	A	309	PRO
1	A	575	CYS
2	B	84	GLU
2	B	93	MET
2	B	104	GLU
2	B	130	ALA
3	C	24	ARG
3	C	117	ARG
1	A	145	ARG
1	A	275	SER
1	A	282	SER
1	A	406	ILE
1	A	682	GLY
1	A	827	GLU
3	C	2	GLN
1	A	201	ALA
1	A	228	ASN
1	A	417	ARG
2	B	64	GLN
3	C	137	ASP
1	A	616	LYS
2	B	83	PRO
2	B	148	LYS
1	A	570	PRO
1	A	620	VAL
2	B	8	VAL
2	B	25	ILE
2	B	33	ILE

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	704/731 (96%)	669 (95%)	35 (5%)	24	47
2	B	128/134 (96%)	111 (87%)	17 (13%)	4	7
3	C	134/137 (98%)	125 (93%)	9 (7%)	16	33
All	All	966/1002 (96%)	905 (94%)	61 (6%)	18	36

All (61) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	5	PHE
1	A	14	CYS
1	A	18	GLN
1	A	41	PHE
1	A	102	ASN
1	A	155	ILE
1	A	173	LEU
1	A	219	THR
1	A	242	ASN
1	A	282	SER
1	A	289	ILE
1	A	299	PRO
1	A	340	PHE
1	A	346	THR
1	A	367	LYS
1	A	407	LYS
1	A	413	VAL
1	A	423	THR
1	A	444	ARG
1	A	448	THR
1	A	534	SER
1	A	543	PRO
1	A	548	THR
1	A	569	LYS
1	A	570	PRO
1	A	583	HIS
1	A	593	ILE
1	A	620	VAL
1	A	624	PHE
1	A	644	PHE
1	A	664	SER

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Mol	Chain	Res	Type
1	A	702	ILE
1	A	714	ILE
1	A	827	GLU
1	A	832	PHE
2	B	9	LYS
2	B	17	GLU
2	B	22	PHE
2	B	35	MET
2	B	37	ASP
2	B	45	LEU
2	B	51	ASP
2	B	52	ASP
2	B	66	ASN
2	B	89	ASN
2	B	106	TYR
2	B	113	ASN
2	B	118	PHE
2	B	124	LYS
2	B	134	ASN
2	B	139	TYR
2	B	142	MET
3	C	4	THR
3	C	13	GLU
3	C	17	LEU
3	C	78	LYS
3	C	85	ASP
3	C	86	GLU
3	C	103	SER
3	C	109	ASN
3	C	117	ARG

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (24) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	78	ASN
1	A	85	ASN
1	A	151	HIS
1	A	165	GLN
1	A	242	ASN
1	A	244	ASN
1	A	301	ASN
1	A	494	HIS

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Mol	Chain	Res	Type
1	A	605	ASN
1	A	607	ASN
1	A	613	GLN
1	A	645	GLN
1	A	661	ASN
1	A	696	ASN
1	A	711	ASN
1	A	804	GLN
1	A	806	GLN
1	A	833	ASN
2	B	64	GLN
2	B	89	ASN
2	B	99	GLN
2	B	125	ASN
2	B	134	ASN
3	C	50	HIS

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 carbohydrates in this entry.

5.6 Ligand geometry [i](#)

Of 2 ligands modelled in this entry, 1 is monoatomic - leaving 1 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. 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 $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	MLI	A	1001	-	0,6,6	0.00	-	0,7,7	0.00	-

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	MLI	A	1001	-	-	0/0/4/4	-

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	808/839 (96%)	0.24	29 (3%) 42 35	18, 49, 88, 115	0
2	B	145/153 (94%)	1.11	28 (19%) 1 0	54, 93, 114, 121	0
3	C	156/159 (98%)	0.09	2 (1%) 77 73	24, 44, 65, 75	0
All	All	1109/1151 (96%)	0.33	59 (5%) 26 20	18, 51, 103, 121	0

All (59) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
3	C	1	SER	6.2
1	A	412	TYR	6.1
2	B	45	LEU	5.9
1	A	201	ALA	5.9
2	B	29	ARG	5.8
1	A	1	MET	5.4
1	A	643	ALA	5.0
1	A	839	LEU	4.5
1	A	832	PHE	4.1
2	B	30	ASP	3.8
1	A	836	LYS	3.8
2	B	77	LYS	3.8
1	A	838	LEU	3.7
3	C	82	THR	3.6
2	B	151	ASP	3.5
2	B	79	SER	3.3
1	A	2	THR	3.3
1	A	296	PRO	3.3
2	B	9	LYS	3.3
1	A	414	THR	3.2
2	B	78	VAL	3.2
1	A	5	PHE	3.1
2	B	134	ASN	3.0

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Mol	Chain	Res	Type	RSRZ
2	B	99	GLN	3.0
2	B	97	ASP	3.0
1	A	835	VAL	3.0
1	A	644	PHE	2.9
2	B	44	SER	2.9
1	A	54	ASP	2.9
1	A	410	THR	2.8
1	A	452	LYS	2.8
2	B	132	LEU	2.7
2	B	137	PHE	2.7
1	A	202	GLY	2.6
1	A	402	LEU	2.6
2	B	129	ASP	2.6
2	B	127	TRP	2.5
1	A	829	TRP	2.5
1	A	413	VAL	2.5
2	B	150	GLU	2.5
1	A	569	LYS	2.5
1	A	198	ALA	2.4
1	A	408	VAL	2.4
2	B	131	PRO	2.4
2	B	101	PHE	2.3
1	A	624	PHE	2.3
2	B	24	MET	2.3
1	A	625	THR	2.3
2	B	31	GLY	2.2
2	B	54	LEU	2.2
2	B	10	LEU	2.1
2	B	8	VAL	2.1
1	A	200	LEU	2.1
2	B	33	ILE	2.1
1	A	371	ARG	2.1
1	A	622	MET	2.1
2	B	13	ARG	2.0
2	B	74	PHE	2.0
2	B	100	GLY	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 [i](#)

There are no carbohydrates 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(\AA^2)	Q<0.9
4	MLI	A	1001	7/7	0.81	0.24	44,48,51,53	0
5	CA	C	1001	1/1	0.93	0.14	50,50,50,50	0

6.5 Other polymers [i](#)

There are no such residues in this entry.