



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 20, 2026 – 08:59 AM UTC

PDB ID : 3SQV / pdb_00003sqv
Title : Crystal Structure of E. coli O157:H7 E3 ubiquitin ligase, NleL, with a human E2, UbcH7
Authors : Lin, D.Y.; Chen, J.
Deposited on : 2011-07-06
Resolution : 3.30 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
Mogul : 2022.3.0, CSD as543be (2022)
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

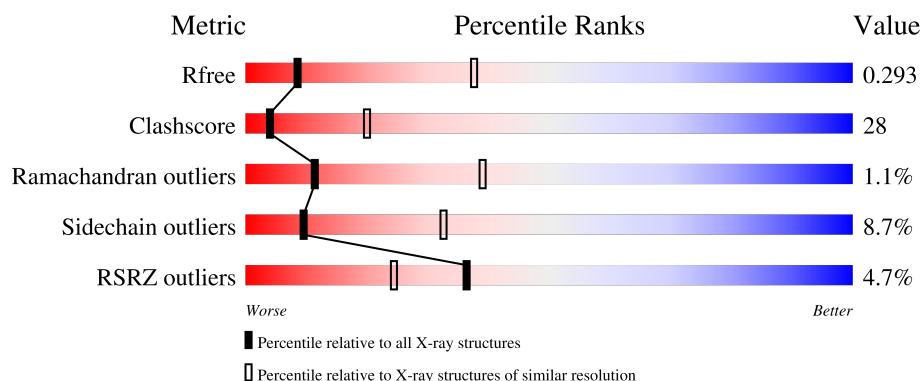
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.30 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	1169 (3.32-3.28)
Clashscore	190562	1209 (3.32-3.28)
Ramachandran outliers	187476	1188 (3.32-3.28)
Sidechain outliers	187428	1187 (3.32-3.28)
RSRZ outliers	180081	1169 (3.32-3.28)

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	616	4% 53% 40% 6% .
1	B	616	5% 52% 41% 5% .
2	C	156	6% 74% 21% 6%
2	D	156	4% 70% 26% ..

2 Entry composition

There are 5 unique types of molecules in this entry. The entry contains 10987 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 secreted effector protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	606	Total	C	N	O	S	0	0	0
			4467	2828	731	873	35			
1	B	606	Total	C	N	O	S	0	0	0
			4450	2808	731	875	36			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	167	SER	-	expression tag	UNP Q8X5G6
A	168	ASN	-	expression tag	UNP Q8X5G6
A	169	ALA	-	expression tag	UNP Q8X5G6
B	167	SER	-	expression tag	UNP Q8X5G6
B	168	ASN	-	expression tag	UNP Q8X5G6
B	169	ALA	-	expression tag	UNP Q8X5G6

- Molecule 2 is a protein called Ubiquitin-conjugating enzyme E2 L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	147	Total	C	N	O	S	0	0	0
			959	607	173	178	1			
2	D	152	Total	C	N	O	S	0	0	0
			1034	657	177	195	5			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-1	GLY	-	expression tag	UNP P68036
C	0	SER	-	expression tag	UNP P68036
D	-1	GLY	-	expression tag	UNP P68036
D	0	SER	-	expression tag	UNP P68036

- Molecule 3 is SULFATE ION (CCD ID: SO4) (formula: O₄S).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	A	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		
3	B	1	Total	O	S	0	0
			5	4	1		

- Molecule 4 is GLYCEROL (CCD ID: GOL) (formula: C₃H₈O₃).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
4	A	1	Total	C	O	0	0
			6	3	3		
4	A	1	Total	C	O	0	0
			6	3	3		
4	C	1	Total	C	O	0	0
			6	3	3		

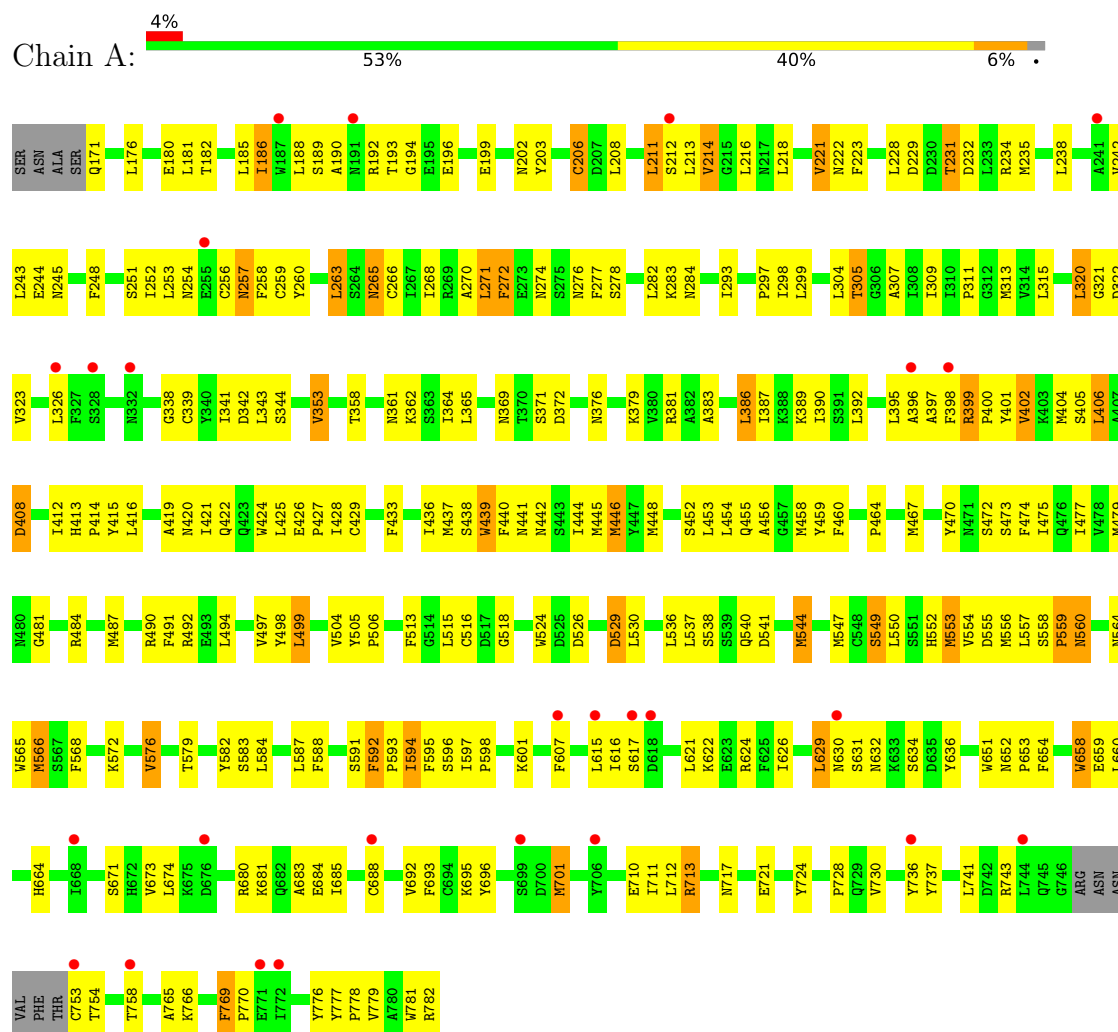
- Molecule 5 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
5	A	8	Total	O	0	0
			8	8		
5	B	6	Total	O	0	0
			6	6		

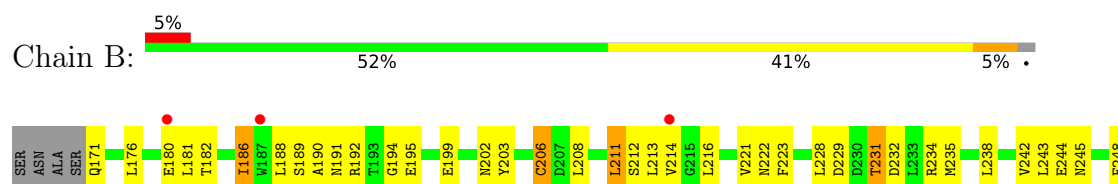
3 Residue-property plots

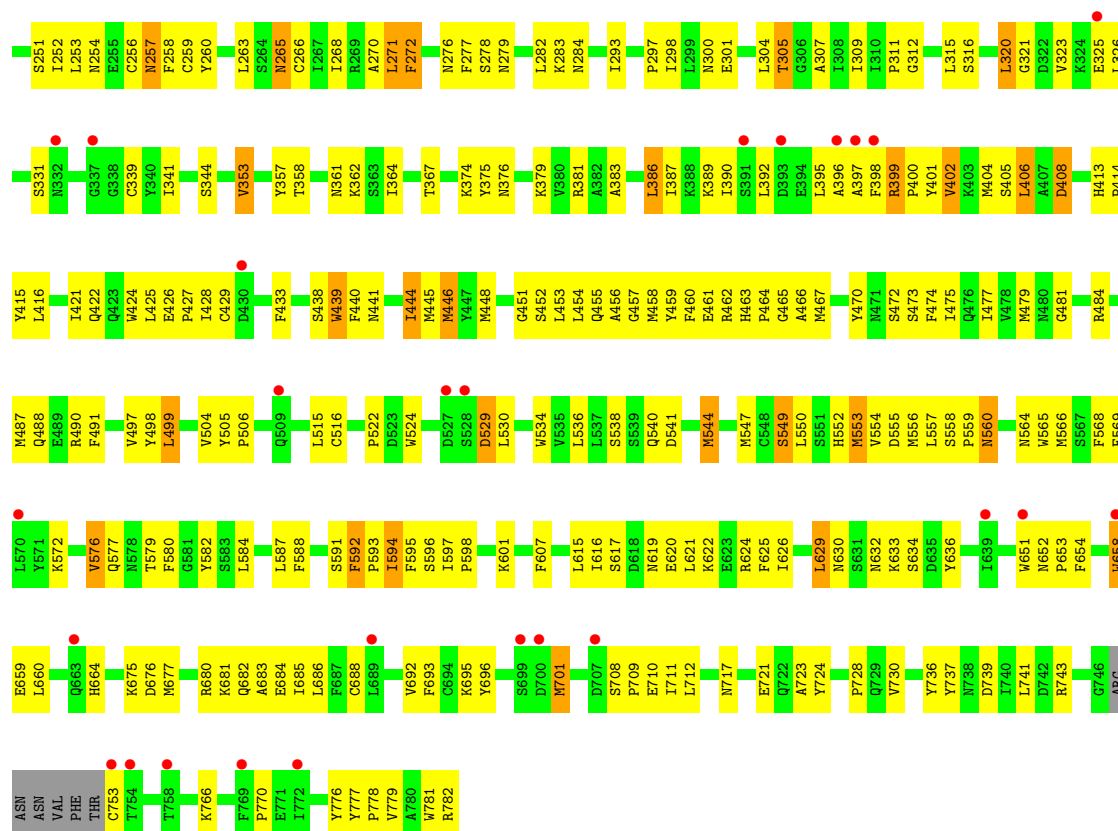
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

• Molecule 1: secreted effector protein

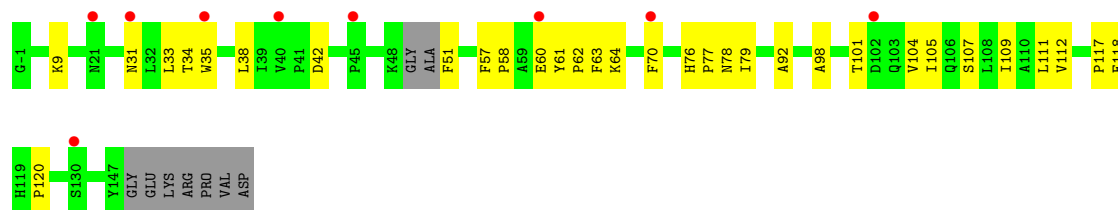
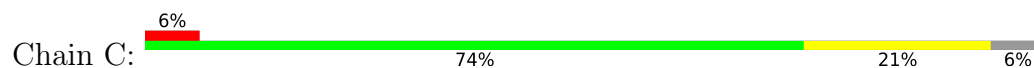


• Molecule 1: secreted effector protein

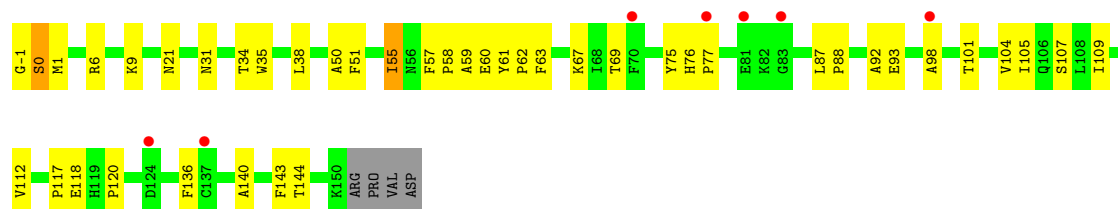




• Molecule 2: Ubiquitin-conjugating enzyme E2 L3



• Molecule 2: Ubiquitin-conjugating enzyme E2 L3



4 Data and refinement statistics

Property	Value	Source
Space group	C 1 2 1	Depositor
Cell constants a, b, c, α , β , γ	302.31Å 72.01Å 125.67Å 90.00° 109.22° 90.00°	Depositor
Resolution (Å)	48.08 – 3.30 48.08 – 3.30	Depositor EDS
% Data completeness (in resolution range)	99.0 (48.08-3.30) 99.1 (48.08-3.30)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.14	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.02 (at 3.25Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.7_650)	Depositor
R, R_{free}	0.266 , 0.298 0.253 , 0.293	Depositor DCC
R_{free} test set	1935 reflections (4.90%)	wwPDB-VP
Wilson B-factor (Å ²)	95.2	Xtriage
Anisotropy	0.426	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.31 , 140.9	EDS
L-test for twinning ²	$\langle L \rangle = 0.45$, $\langle L^2 \rangle = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.91	EDS
Total number of atoms	10987	wwPDB-VP
Average B, all atoms (Å ²)	128.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 11.68% 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: GOL, SO4

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	0.41	0/4569	0.81	7/6223 (0.1%)
1	B	0.42	0/4550	0.82	4/6197 (0.1%)
2	C	0.32	0/983	0.79	0/1358
2	D	0.34	0/1063	0.77	0/1465
All	All	0.40	0/11165	0.81	11/15243 (0.1%)

There are no bond length outliers.

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	399	ARG	CA-C-N	7.93	127.50	118.85
1	B	399	ARG	C-N-CA	7.93	127.50	118.85
1	A	399	ARG	CA-C-N	7.50	127.13	119.19
1	A	399	ARG	C-N-CA	7.50	127.13	119.19
1	A	713	ARG	NE-CZ-NH2	7.13	125.62	119.20
1	A	713	ARG	NE-CZ-NH1	-6.80	114.70	121.50
1	B	592	PHE	CA-C-N	6.19	125.89	119.82
1	B	592	PHE	C-N-CA	6.19	125.89	119.82
1	A	592	PHE	CA-C-N	5.94	125.64	119.82
1	A	592	PHE	C-N-CA	5.94	125.64	119.82
1	A	322	ASP	N-CA-C	-5.03	103.51	110.35

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	4467	0	3905	259	0
1	B	4450	0	3859	266	0
2	C	959	0	738	22	0
2	D	1034	0	821	32	0
3	A	30	0	0	0	0
3	B	15	0	0	1	0
4	A	12	0	16	0	0
4	C	6	0	8	0	0
5	A	8	0	0	0	0
5	B	6	0	0	1	0
All	All	10987	0	9347	567	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 28.

All (567) 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:208:LEU:HD23	1:B:211:LEU:HD11	1.51	0.93
1:A:208:LEU:HD23	1:A:211:LEU:HD11	1.53	0.89
1:B:399:ARG:HG3	1:B:402:VAL:HB	1.55	0.88
1:B:475:ILE:O	1:B:479:MET:HG3	1.74	0.87
1:A:475:ILE:O	1:A:479:MET:HG3	1.75	0.86
1:A:398:PHE:HB2	1:B:558:SER:HB2	1.59	0.82
1:A:766:LYS:O	1:A:770:PRO:HG3	1.80	0.81
1:A:556:MET:HE3	1:A:595:PHE:HE1	1.46	0.81
1:A:413:HIS:CD2	1:A:414:PRO:HA	2.17	0.80
1:B:464:PRO:HA	1:B:467:MET:HE3	1.64	0.79
1:B:766:LYS:O	1:B:770:PRO:HG3	1.83	0.79
1:A:221:VAL:HB	1:A:223:PHE:HE2	1.48	0.79
1:B:479:MET:HE2	1:B:550:LEU:HD13	1.63	0.79
1:A:711:ILE:HG23	1:A:712:LEU:HD22	1.65	0.78
1:B:413:HIS:CD2	1:B:414:PRO:HA	2.17	0.78
1:B:711:ILE:HG23	1:B:712:LEU:HD22	1.66	0.77
1:A:464:PRO:HA	1:A:467:MET:HE3	1.67	0.77
1:B:556:MET:HE3	1:B:595:PHE:HE1	1.50	0.76
1:B:566:MET:HE2	1:B:584:LEU:HD11	1.68	0.75
1:B:487:MET:HE2	1:B:491:PHE:CE2	2.22	0.75
1:A:629:LEU:O	1:A:629:LEU:HD12	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:607:PHE:HD2	1:B:776:TYR:HE1	1.36	0.74
1:A:607:PHE:HD2	1:A:776:TYR:HE1	1.33	0.73
1:B:402:VAL:O	1:B:406:LEU:HD22	1.87	0.73
1:B:554:VAL:O	1:B:557:LEU:HB2	1.89	0.73
1:A:479:MET:HE2	1:A:550:LEU:HD13	1.71	0.72
1:B:398:PHE:CE2	1:B:400:PRO:HB3	2.25	0.72
1:A:554:VAL:O	1:A:557:LEU:HB2	1.90	0.72
2:D:6:ARG:HH11	2:D:62:PRO:HG3	1.54	0.72
1:B:616:ILE:HD11	1:B:621:LEU:HB3	1.70	0.72
1:A:564:ASN:HD22	1:A:566:MET:HG3	1.54	0.71
1:B:479:MET:HE3	1:B:534:TRP:CD1	2.25	0.71
1:A:401:TYR:O	1:A:405:SER:HB2	1.91	0.71
1:B:305:THR:HG23	1:B:321:GLY:HA3	1.72	0.71
1:A:398:PHE:CE2	1:A:400:PRO:HB3	2.25	0.71
1:A:564:ASN:ND2	1:A:566:MET:HG3	2.06	0.71
2:D:76:HIS:HE1	2:D:112:VAL:HA	1.55	0.71
1:B:401:TYR:O	1:B:405:SER:HB2	1.90	0.71
1:A:402:VAL:O	1:A:406:LEU:HD22	1.90	0.71
1:B:693:PHE:HA	1:B:696:TYR:HD2	1.56	0.71
1:A:566:MET:HE2	1:A:584:LEU:HD11	1.73	0.70
1:A:693:PHE:HA	1:A:696:TYR:HD2	1.55	0.70
1:B:564:ASN:HD22	1:B:566:MET:HG3	1.55	0.70
1:A:253:LEU:O	1:A:256:CYS:HB2	1.91	0.70
1:B:607:PHE:CD2	1:B:776:TYR:HE1	2.10	0.70
1:A:257:ASN:C	1:A:257:ASN:HD22	1.99	0.70
1:B:607:PHE:HD2	1:B:776:TYR:CE1	2.10	0.70
1:B:564:ASN:ND2	1:B:566:MET:HG3	2.07	0.69
1:A:320:LEU:HD23	1:A:339:CYS:SG	2.33	0.69
1:A:594:ILE:HD13	1:A:594:ILE:H	1.58	0.69
2:C:76:HIS:HE1	2:C:112:VAL:HA	1.56	0.69
1:A:305:THR:HG23	1:A:321:GLY:HA3	1.73	0.69
1:A:218:LEU:O	1:A:221:VAL:HG23	1.93	0.69
1:B:257:ASN:C	1:B:257:ASN:HD22	2.01	0.68
1:B:629:LEU:HD12	1:B:629:LEU:O	1.93	0.68
1:B:724:TYR:HE2	1:B:728:PRO:HB3	1.58	0.68
1:A:607:PHE:CD2	1:A:776:TYR:HE1	2.11	0.67
1:A:607:PHE:HD2	1:A:776:TYR:CE1	2.11	0.67
1:A:724:TYR:HE2	1:A:728:PRO:HB3	1.59	0.67
1:B:594:ILE:HD13	1:B:594:ILE:H	1.59	0.67
2:C:63:PHE:O	2:C:64:LYS:HD2	1.94	0.67
1:B:416:LEU:HA	1:B:422:GLN:NE2	2.10	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:76:HIS:CD2	2:C:77:PRO:HD2	2.30	0.66
1:B:724:TYR:CE2	1:B:728:PRO:HB3	2.31	0.66
1:A:526:ASP:OD2	1:A:529:ASP:HA	1.95	0.65
2:D:51:PHE:HZ	2:D:144:THR:HG23	1.60	0.65
2:D:76:HIS:CD2	2:D:77:PRO:HD2	2.30	0.65
1:A:724:TYR:CE2	1:A:728:PRO:HB3	2.32	0.65
1:B:253:LEU:O	1:B:256:CYS:HB2	1.96	0.65
1:A:597:ILE:N	1:A:598:PRO:HD2	2.12	0.65
1:B:516:CYS:HB2	2:D:9:LYS:HE3	1.77	0.65
2:D:55:ILE:HD11	2:D:57:PHE:CE1	2.32	0.65
1:B:479:MET:HE3	1:B:534:TRP:NE1	2.11	0.65
1:A:307:ALA:O	1:A:339:CYS:HB2	1.97	0.65
1:A:673:VAL:HG12	1:A:674:LEU:HD23	1.77	0.65
1:A:416:LEU:HA	1:A:422:GLN:NE2	2.13	0.64
1:B:353:VAL:HG13	1:B:364:ILE:HG22	1.78	0.64
1:B:438:SER:HA	1:B:470:TYR:CE1	2.33	0.64
1:B:597:ILE:N	1:B:598:PRO:HD2	2.12	0.64
1:A:398:PHE:O	1:A:399:ARG:C	2.41	0.63
1:A:438:SER:HA	1:A:470:TYR:CE1	2.33	0.63
1:B:522:PRO:HG2	1:B:524:TRP:HE1	1.63	0.63
1:A:674:LEU:CD2	1:A:685:ILE:HD12	2.29	0.62
1:A:651:TRP:HA	1:A:654:PHE:HD2	1.63	0.62
1:A:654:PHE:HD1	1:A:664:HIS:CE1	2.17	0.62
1:A:680:ARG:O	1:A:684:GLU:HG3	1.98	0.62
1:B:320:LEU:HD23	1:B:339:CYS:SG	2.39	0.62
1:A:654:PHE:CD1	1:A:664:HIS:CE1	2.88	0.62
1:A:353:VAL:HG13	1:A:364:ILE:HG22	1.82	0.62
1:A:487:MET:HE2	1:A:491:PHE:CE2	2.35	0.62
1:B:651:TRP:HA	1:B:654:PHE:HD2	1.64	0.62
1:B:307:ALA:O	1:B:339:CYS:HB2	2.00	0.61
1:B:398:PHE:O	1:B:399:ARG:C	2.41	0.61
1:B:458:MET:HE2	1:B:490:ARG:NH1	2.15	0.61
1:A:271:LEU:H	1:A:271:LEU:HD12	1.65	0.61
1:B:505:TYR:N	1:B:506:PRO:HD2	2.15	0.61
1:B:271:LEU:HD12	1:B:271:LEU:H	1.65	0.61
2:C:70:PHE:HD2	2:C:79:ILE:HG21	1.65	0.61
1:B:331:SER:CB	1:B:389:LYS:NZ	2.63	0.61
1:B:625:PHE:HE2	1:B:651:TRP:HH2	1.48	0.61
1:B:654:PHE:HD1	1:B:664:HIS:CE1	2.19	0.61
1:A:481:GLY:HA3	1:A:491:PHE:CD2	2.35	0.61
1:B:454:LEU:HA	1:B:487:MET:HE1	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:458:MET:HE2	1:B:490:ARG:NH2	2.15	0.61
1:B:654:PHE:CD1	1:B:664:HIS:CE1	2.89	0.60
2:C:70:PHE:HE2	2:C:79:ILE:HD13	1.66	0.60
1:A:505:TYR:N	1:A:506:PRO:HD2	2.15	0.60
1:B:544:MET:HE3	1:B:572:LYS:HA	1.84	0.60
1:A:594:ILE:HD13	1:A:594:ILE:N	2.15	0.60
1:A:309:ILE:O	1:A:341:ILE:HA	2.02	0.60
1:B:458:MET:HE2	1:B:490:ARG:CZ	2.32	0.60
2:C:70:PHE:CE2	2:C:79:ILE:HD13	2.37	0.59
1:A:529:ASP:HB2	1:A:550:LEU:HB3	1.84	0.59
1:B:404:MET:O	1:B:408:ASP:OD2	2.20	0.59
1:A:251:SER:O	1:A:270:ALA:HB1	2.03	0.59
1:B:212:SER:C	1:B:213:LEU:HD22	2.27	0.59
1:A:232:ASP:OD1	1:A:234:ARG:HG2	2.03	0.59
1:A:556:MET:HE3	1:A:595:PHE:CE1	2.32	0.59
1:A:565:TRP:HB3	1:A:588:PHE:CE2	2.37	0.59
1:A:212:SER:C	1:A:213:LEU:HD22	2.28	0.58
1:B:387:ILE:HG23	1:B:424:TRP:CE2	2.39	0.58
1:B:594:ILE:HD13	1:B:594:ILE:N	2.17	0.58
1:A:454:LEU:HA	1:A:487:MET:HE1	1.84	0.58
1:B:171:GLN:N	1:B:199:GLU:O	2.36	0.58
1:B:244:GLU:O	1:B:245:ASN:HB2	2.03	0.58
1:A:529:ASP:CB	1:A:550:LEU:HD23	2.32	0.58
1:A:769:PHE:N	1:A:769:PHE:CD1	2.67	0.58
1:B:263:LEU:HB3	1:B:266:CYS:SG	2.44	0.58
1:A:383:ALA:HB2	1:A:415:TYR:HE1	1.69	0.58
1:A:544:MET:HE3	1:A:572:LYS:HA	1.85	0.58
1:B:565:TRP:HB3	1:B:588:PHE:CE2	2.39	0.58
1:A:188:LEU:O	1:A:192:ARG:HD2	2.04	0.57
1:B:232:ASP:OD1	1:B:234:ARG:HG2	2.04	0.57
1:B:522:PRO:HG2	1:B:524:TRP:NE1	2.19	0.57
1:B:652:ASN:N	1:B:653:PRO:HD2	2.19	0.57
1:A:616:ILE:HD11	1:A:621:LEU:HB3	1.86	0.57
1:B:529:ASP:CB	1:B:550:LEU:HD23	2.34	0.57
1:A:479:MET:CE	1:A:550:LEU:HD13	2.33	0.57
1:B:587:LEU:HD11	1:B:592:PHE:HE2	1.69	0.57
1:A:263:LEU:HB3	1:A:266:CYS:SG	2.44	0.57
1:B:243:LEU:N	1:B:243:LEU:HD12	2.20	0.57
1:B:779:VAL:HG12	1:B:782:ARG:CZ	2.34	0.57
1:B:404:MET:HE1	1:B:448:MET:HB3	1.86	0.57
2:C:101:THR:O	2:C:104:VAL:HG12	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:433:PHE:HD2	1:A:456:ALA:HA	1.70	0.57
1:B:607:PHE:HB2	1:B:776:TYR:CE1	2.39	0.57
1:B:331:SER:CB	1:B:389:LYS:HZ3	2.17	0.57
1:B:383:ALA:HB2	1:B:415:TYR:HE1	1.69	0.57
1:B:544:MET:HE3	1:B:572:LYS:CA	2.34	0.57
1:B:680:ARG:O	1:B:684:GLU:HG3	2.04	0.57
1:A:213:LEU:HD12	1:A:216:LEU:CD1	2.35	0.56
1:A:652:ASN:N	1:A:653:PRO:HD2	2.19	0.56
1:A:221:VAL:HB	1:A:223:PHE:CE2	2.35	0.56
1:A:386:LEU:O	1:A:389:LYS:HB2	2.05	0.56
1:A:387:ILE:HG23	1:A:424:TRP:CE2	2.40	0.56
1:A:626:ILE:HA	1:A:629:LEU:HD23	1.86	0.56
1:A:779:VAL:HG12	1:A:782:ARG:CZ	2.35	0.56
1:A:257:ASN:C	1:A:257:ASN:ND2	2.64	0.56
1:A:553:MET:HE3	1:A:557:LEU:HD11	1.86	0.56
1:B:425:LEU:O	1:B:426:GLU:C	2.49	0.56
1:A:298:ILE:HD12	1:B:298:ILE:HD12	1.86	0.56
1:A:472:SER:CB	1:A:594:ILE:HD12	2.36	0.56
1:B:553:MET:HE3	1:B:557:LEU:HD11	1.87	0.56
2:D:101:THR:O	2:D:104:VAL:HG12	2.05	0.56
1:B:588:PHE:O	1:B:593:PRO:HA	2.06	0.56
1:A:211:LEU:HD23	1:A:211:LEU:H	1.71	0.56
1:A:243:LEU:HD23	1:A:248:PHE:HZ	1.71	0.56
1:A:587:LEU:HD11	1:A:592:PHE:HE2	1.71	0.56
1:B:529:ASP:HB2	1:B:550:LEU:HB3	1.87	0.56
1:A:558:SER:HB2	1:B:398:PHE:HB2	1.86	0.55
1:A:654:PHE:CD1	1:A:664:HIS:HE1	2.23	0.55
1:B:309:ILE:O	1:B:341:ILE:HA	2.06	0.55
1:A:453:LEU:HD22	1:A:484:ARG:HE	1.71	0.55
1:B:243:LEU:HD23	1:B:248:PHE:HZ	1.72	0.55
1:B:695:LYS:HD3	1:B:781:TRP:CE3	2.42	0.55
1:A:695:LYS:HD3	1:A:781:TRP:CE3	2.41	0.55
1:B:326:LEU:O	1:B:381:ARG:HD3	2.06	0.55
1:B:487:MET:HE2	1:B:491:PHE:HE2	1.71	0.55
1:A:472:SER:HB3	1:A:594:ILE:HD12	1.89	0.55
1:A:544:MET:HE3	1:A:572:LYS:CA	2.37	0.55
1:B:211:LEU:HD23	1:B:211:LEU:H	1.71	0.55
1:B:213:LEU:HD12	1:B:216:LEU:CD1	2.37	0.55
1:A:684:GLU:HG2	1:A:769:PHE:CD2	2.42	0.55
1:B:433:PHE:HD2	1:B:456:ALA:HA	1.70	0.55
1:B:677:MET:SD	1:B:685:ILE:HD11	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:51:PHE:CZ	2:D:144:THR:HG23	2.41	0.55
1:B:594:ILE:H	1:B:594:ILE:CD1	2.17	0.54
1:A:243:LEU:N	1:A:243:LEU:HD12	2.23	0.54
1:B:556:MET:HE3	1:B:595:PHE:CE1	2.37	0.54
1:B:741:LEU:C	1:B:743:ARG:H	2.16	0.54
1:A:242:VAL:HG23	1:A:242:VAL:O	2.07	0.54
1:A:304:LEU:HD23	1:A:309:ILE:HG21	1.90	0.54
1:B:242:VAL:HG23	1:B:242:VAL:O	2.07	0.54
1:B:361:ASN:OD1	1:B:362:LYS:HG2	2.07	0.54
1:A:425:LEU:O	1:A:426:GLU:C	2.50	0.54
1:A:454:LEU:CA	1:A:487:MET:HE1	2.37	0.54
1:B:251:SER:O	1:B:270:ALA:HB1	2.07	0.54
1:B:453:LEU:HD22	1:B:484:ARG:HE	1.72	0.54
1:A:244:GLU:O	1:A:245:ASN:HB2	2.07	0.54
1:A:681:LYS:O	1:A:685:ILE:HG13	2.08	0.54
1:B:654:PHE:CD1	1:B:664:HIS:HE1	2.25	0.54
1:B:607:PHE:HB2	1:B:776:TYR:CD1	2.42	0.53
1:A:404:MET:O	1:A:408:ASP:OD2	2.26	0.53
1:A:588:PHE:O	1:A:593:PRO:HA	2.07	0.53
1:B:257:ASN:C	1:B:257:ASN:ND2	2.65	0.53
1:A:559:PRO:HG3	1:A:601:LYS:HD3	1.89	0.53
1:B:248:PHE:HB2	1:B:268:ILE:HA	1.91	0.53
1:A:404:MET:HE1	1:A:448:MET:HB3	1.90	0.53
1:B:398:PHE:HE2	1:B:400:PRO:HB3	1.73	0.53
1:A:741:LEU:C	1:A:743:ARG:H	2.16	0.53
1:A:203:TYR:C	1:A:206:CYS:SG	2.92	0.53
1:A:361:ASN:OD1	1:A:362:LYS:HG2	2.09	0.53
1:A:320:LEU:HD12	1:A:320:LEU:H	1.73	0.53
1:B:234:ARG:NH2	1:B:252:ILE:HG21	2.24	0.53
1:B:320:LEU:HD13	1:B:375:TYR:CD1	2.44	0.53
1:B:595:PHE:H	1:B:595:PHE:HD2	1.55	0.53
1:B:692:VAL:HG12	1:B:696:TYR:CE2	2.44	0.53
1:A:674:LEU:HD22	1:A:685:ILE:HD12	1.91	0.52
1:B:481:GLY:HA3	1:B:491:PHE:CD2	2.44	0.52
1:B:681:LYS:O	1:B:685:ILE:HG13	2.09	0.52
1:A:728:PRO:C	1:A:730:VAL:H	2.16	0.52
1:A:171:GLN:N	1:A:199:GLU:O	2.42	0.52
1:A:234:ARG:NH2	1:A:252:ILE:HG21	2.25	0.52
1:B:728:PRO:C	1:B:730:VAL:H	2.16	0.52
2:D:0:SER:HB2	2:D:59:ALA:HB1	1.91	0.52
2:D:34:THR:C	2:D:35:TRP:HD1	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:176:LEU:HB3	1:A:180:GLU:HB3	1.91	0.52
1:A:248:PHE:HB2	1:A:268:ILE:HA	1.91	0.52
1:A:692:VAL:HG12	1:A:696:TYR:CE2	2.44	0.52
1:B:626:ILE:HA	1:B:629:LEU:HD23	1.91	0.52
1:B:619:ASN:C	1:B:621:LEU:N	2.68	0.52
2:D:109:ILE:O	2:D:112:VAL:HG22	2.10	0.52
1:A:673:VAL:HG12	1:A:674:LEU:CD2	2.40	0.51
1:B:304:LEU:HD23	1:B:309:ILE:HG21	1.90	0.51
1:B:440:PHE:HE2	1:B:446:MET:HE3	1.75	0.51
1:B:188:LEU:HD11	1:B:192:ARG:NH1	2.25	0.51
1:B:386:LEU:O	1:B:389:LYS:HB2	2.11	0.51
1:A:484:ARG:HG2	1:A:487:MET:SD	2.49	0.51
1:A:513:PHE:HB2	1:A:547:MET:HE1	1.93	0.51
1:B:454:LEU:CA	1:B:487:MET:HE1	2.40	0.51
2:C:38:LEU:HD23	2:C:51:PHE:O	2.10	0.51
1:A:594:ILE:H	1:A:594:ILE:CD1	2.17	0.51
1:B:632:ASN:O	1:B:701:MET:HE3	2.10	0.51
1:B:176:LEU:HB3	1:B:180:GLU:HB3	1.91	0.51
1:B:515:LEU:O	1:B:516:CYS:HB2	2.10	0.51
1:A:392:LEU:HD23	1:A:395:LEU:HD12	1.93	0.51
1:B:320:LEU:HD12	1:B:320:LEU:H	1.75	0.51
2:C:109:ILE:O	2:C:112:VAL:HG22	2.10	0.51
1:A:271:LEU:HD12	1:A:271:LEU:N	2.25	0.51
1:A:565:TRP:HB3	1:A:588:PHE:CZ	2.46	0.51
1:A:272:PHE:CG	1:A:297:PRO:HG3	2.45	0.51
1:A:515:LEU:O	1:A:516:CYS:HB2	2.11	0.51
1:A:530:LEU:HA	1:A:549:SER:OG	2.11	0.51
1:A:595:PHE:H	1:A:595:PHE:HD2	1.59	0.51
1:A:492:ARG:HG2	1:A:524:TRP:CE2	2.46	0.51
1:A:659:GLU:HG2	1:A:660:LEU:H	1.76	0.51
1:B:189:SER:O	1:B:192:ARG:HG2	2.11	0.51
1:B:271:LEU:HD12	1:B:271:LEU:N	2.26	0.51
1:B:277:PHE:O	1:B:278:SER:C	2.54	0.50
1:B:362:LYS:HE3	5:B:783:HOH:O	2.10	0.50
1:B:484:ARG:HG2	1:B:487:MET:SD	2.51	0.50
2:D:87:LEU:HD12	2:D:88:PRO:HD2	1.91	0.50
1:A:467:MET:HB3	1:A:498:TYR:HD1	1.76	0.50
1:B:458:MET:HG2	1:B:490:ARG:NH2	2.26	0.50
1:B:203:TYR:C	1:B:206:CYS:SG	2.94	0.50
1:B:392:LEU:HD23	1:B:395:LEU:HD12	1.92	0.50
1:B:686:LEU:HB3	1:B:723:ALA:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:258:PHE:O	1:A:259:CYS:C	2.55	0.50
1:B:659:GLU:HG2	1:B:660:LEU:H	1.75	0.50
1:A:516:CYS:C	1:A:518:GLY:H	2.18	0.50
1:A:218:LEU:C	1:A:221:VAL:HG23	2.36	0.50
1:A:441:ASN:HA	1:A:473:SER:HB2	1.94	0.50
1:A:634:SER:C	1:A:636:TYR:H	2.19	0.50
1:B:488:GLN:HG3	3:B:3:SO4:O4	2.12	0.50
1:B:272:PHE:CG	1:B:297:PRO:HG3	2.47	0.50
1:B:565:TRP:HB3	1:B:588:PHE:CZ	2.47	0.50
1:A:208:LEU:HA	1:A:211:LEU:HD21	1.94	0.50
1:A:429:CYS:SG	1:A:455:GLN:HG2	2.52	0.50
1:A:695:LYS:HA	1:A:758:THR:HG21	1.94	0.49
1:A:710:GLU:HA	1:A:713:ARG:HH21	1.77	0.49
2:D:55:ILE:HD11	2:D:57:PHE:CZ	2.47	0.49
1:A:487:MET:HE2	1:A:491:PHE:HE2	1.74	0.49
1:B:221:VAL:CB	1:B:223:PHE:HE2	2.25	0.49
1:B:208:LEU:HA	1:B:211:LEU:HD21	1.94	0.49
1:B:433:PHE:CD2	1:B:456:ALA:HA	2.48	0.49
1:B:530:LEU:HA	1:B:549:SER:OG	2.11	0.49
1:A:263:LEU:HD12	1:A:263:LEU:N	2.27	0.49
1:A:251:SER:C	1:A:270:ALA:HB1	2.38	0.49
1:B:311:PRO:HB3	1:B:364:ILE:HB	1.95	0.49
1:B:376:ASN:HA	1:B:379:LYS:HD3	1.95	0.49
2:D:21:ASN:CB	2:D:109:ILE:HD13	2.42	0.49
1:A:684:GLU:HG2	1:A:769:PHE:HD2	1.76	0.49
1:B:232:ASP:OD1	1:B:232:ASP:C	2.55	0.49
2:C:34:THR:C	2:C:35:TRP:HD1	2.21	0.49
1:A:211:LEU:HD12	1:A:213:LEU:HD21	1.95	0.49
1:B:441:ASN:HA	1:B:473:SER:HB2	1.94	0.49
1:B:569:PHE:CE2	2:D:63:PHE:HE1	2.31	0.49
1:B:717:ASN:O	1:B:721:GLU:HG3	2.13	0.49
1:A:176:LEU:O	1:A:181:LEU:HD23	2.13	0.48
1:B:263:LEU:N	1:B:263:LEU:HD12	2.28	0.48
1:B:194:GLY:O	1:B:195:GLU:HG3	2.13	0.48
1:B:263:LEU:HB2	1:B:282:LEU:HD23	1.94	0.48
1:B:272:PHE:CD1	1:B:272:PHE:N	2.81	0.48
2:D:38:LEU:HD22	2:D:50:ALA:HB3	1.95	0.48
1:A:283:LYS:O	1:A:284:ASN:HB2	2.13	0.48
1:A:376:ASN:HA	1:A:379:LYS:HD3	1.94	0.48
1:A:607:PHE:HB2	1:A:776:TYR:CD1	2.48	0.48
1:B:580:PHE:HB3	1:B:632:ASN:HB3	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:58:PRO:HD2	2:D:61:TYR:HB2	1.95	0.48
1:A:433:PHE:CD2	1:A:456:ALA:HA	2.49	0.48
1:B:309:ILE:HD12	1:B:315:LEU:HD21	1.96	0.48
1:A:221:VAL:CB	1:A:223:PHE:HE2	2.22	0.48
1:A:440:PHE:HE2	1:A:446:MET:HE3	1.79	0.48
1:A:607:PHE:HB2	1:A:776:TYR:CE1	2.49	0.48
1:B:259:CYS:O	1:B:260:TYR:HB2	2.13	0.48
1:A:277:PHE:O	1:A:278:SER:C	2.57	0.48
1:A:576:VAL:HG11	2:C:98:ALA:HB2	1.96	0.48
1:B:616:ILE:HD13	1:B:622:LYS:HA	1.96	0.48
1:A:192:ARG:HA	1:A:192:ARG:NE	2.28	0.47
1:A:579:THR:O	1:A:582:TYR:HB2	2.14	0.47
1:B:211:LEU:HD12	1:B:213:LEU:HD21	1.96	0.47
1:A:326:LEU:O	1:A:381:ARG:HD3	2.14	0.47
1:B:404:MET:HE3	1:B:452:SER:OG	2.14	0.47
1:B:472:SER:CB	1:B:594:ILE:HD12	2.44	0.47
1:B:555:ASP:C	1:B:557:LEU:H	2.22	0.47
1:B:549:SER:O	1:B:552:HIS:N	2.48	0.47
1:A:232:ASP:OD1	1:A:232:ASP:C	2.56	0.47
1:A:263:LEU:HB2	1:A:282:LEU:HD23	1.96	0.47
1:A:492:ARG:HG2	1:A:524:TRP:CD2	2.48	0.47
1:A:529:ASP:HB3	1:A:550:LEU:HD23	1.97	0.47
1:B:559:PRO:HG3	1:B:601:LYS:HD3	1.96	0.47
2:D:61:TYR:CD1	2:D:62:PRO:HA	2.49	0.47
1:B:540:GLN:HG2	1:B:541:ASP:N	2.29	0.47
1:A:622:LYS:C	1:A:624:ARG:H	2.23	0.47
1:B:390:ILE:HD12	1:B:424:TRP:CH2	2.49	0.47
1:A:549:SER:O	1:A:550:LEU:C	2.57	0.47
1:B:182:THR:O	1:B:186:ILE:HG23	2.15	0.47
1:B:194:GLY:C	1:B:195:GLU:HG3	2.40	0.47
1:B:312:GLY:N	1:B:367:THR:OG1	2.47	0.47
1:B:396:ALA:O	1:B:397:ALA:C	2.57	0.47
1:B:458:MET:HE2	1:B:490:ARG:HH12	1.78	0.47
1:A:259:CYS:O	1:A:260:TYR:HB2	2.13	0.47
1:A:540:GLN:HG2	1:A:541:ASP:N	2.28	0.47
1:B:283:LYS:O	1:B:284:ASN:HB2	2.15	0.47
1:B:251:SER:C	1:B:270:ALA:HB1	2.40	0.46
1:B:549:SER:O	1:B:550:LEU:C	2.57	0.46
1:A:202:ASN:OD1	1:A:202:ASN:C	2.58	0.46
1:A:234:ARG:O	1:A:235:MET:HB2	2.15	0.46
1:A:717:ASN:O	1:A:721:GLU:HG3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:256:CYS:SG	1:B:257:ASN:N	2.88	0.46
1:B:258:PHE:O	1:B:259:CYS:C	2.57	0.46
1:A:688:CYS:O	1:A:692:VAL:HG23	2.16	0.46
1:B:579:THR:O	1:B:582:TYR:HB2	2.15	0.46
2:C:61:TYR:CD1	2:C:62:PRO:HA	2.50	0.46
1:A:390:ILE:HD12	1:A:424:TRP:CH2	2.51	0.46
1:A:765:ALA:HA	1:A:769:PHE:HE1	1.80	0.46
1:A:176:LEU:HB3	1:A:180:GLU:HG2	1.97	0.46
1:A:778:PRO:HG2	1:A:781:TRP:CE3	2.51	0.46
1:B:176:LEU:O	1:B:181:LEU:HD23	2.15	0.46
1:B:325:GLU:O	1:B:326:LEU:C	2.59	0.46
1:A:504:VAL:HG22	1:A:537:LEU:HD11	1.98	0.46
1:B:479:MET:CE	1:B:550:LEU:HD13	2.41	0.46
1:B:458:MET:HE2	1:B:490:ARG:HH22	1.78	0.46
1:B:622:LYS:C	1:B:624:ARG:H	2.23	0.46
1:A:505:TYR:O	1:A:506:PRO:C	2.59	0.46
1:A:554:VAL:O	1:A:555:ASP:C	2.59	0.46
1:B:529:ASP:HB3	1:B:550:LEU:HD23	1.98	0.46
1:A:218:LEU:HB3	1:A:221:VAL:HG21	1.98	0.45
1:A:265:ASN:HA	1:A:284:ASN:O	2.17	0.45
1:A:413:HIS:CG	1:A:414:PRO:HA	2.51	0.45
1:B:176:LEU:HB2	1:B:181:LEU:CD2	2.46	0.45
2:D:75:TYR:HB2	2:D:143:PHE:CD2	2.51	0.45
1:A:632:ASN:O	1:A:701:MET:HE3	2.15	0.45
1:B:682:GLN:O	1:B:686:LEU:HD13	2.16	0.45
1:B:741:LEU:C	1:B:743:ARG:N	2.74	0.45
1:A:583:SER:HA	1:A:631:SER:OG	2.15	0.45
2:D:34:THR:O	2:D:35:TRP:HD1	1.99	0.45
1:A:272:PHE:N	1:A:272:PHE:CD1	2.83	0.45
1:A:309:ILE:HD12	1:A:315:LEU:HD21	1.98	0.45
1:A:398:PHE:HE2	1:A:400:PRO:HB3	1.74	0.45
1:B:376:ASN:HA	1:B:379:LYS:CD	2.46	0.45
1:B:688:CYS:O	1:B:692:VAL:HG23	2.17	0.45
1:B:258:PHE:HB2	1:B:276:ASN:O	2.16	0.45
1:B:265:ASN:HA	1:B:284:ASN:O	2.17	0.45
1:A:460:PHE:CE2	1:A:474:PHE:HD1	2.35	0.45
1:A:176:LEU:HB2	1:A:181:LEU:CD2	2.47	0.45
1:A:387:ILE:C	1:A:389:LYS:H	2.24	0.45
1:A:594:ILE:C	1:A:596:SER:H	2.24	0.45
1:A:673:VAL:C	1:A:674:LEU:HD23	2.42	0.45
1:B:538:SER:HA	1:B:591:SER:O	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:594:ILE:C	1:B:596:SER:H	2.25	0.45
1:B:778:PRO:HG2	1:B:781:TRP:CE3	2.51	0.45
1:B:554:VAL:O	1:B:555:ASP:C	2.59	0.45
1:B:597:ILE:N	1:B:598:PRO:CD	2.80	0.45
1:A:228:LEU:O	1:A:231:THR:HB	2.17	0.44
1:A:467:MET:HE2	1:A:494:LEU:HD11	2.00	0.44
1:B:505:TYR:O	1:B:506:PRO:C	2.58	0.44
1:B:777:TYR:HE2	1:B:781:TRP:HB2	1.82	0.44
2:D:105:ILE:C	2:D:107:SER:N	2.75	0.44
1:A:228:LEU:HD12	1:A:228:LEU:N	2.31	0.44
1:B:176:LEU:HD13	1:B:180:GLU:HG2	1.99	0.44
1:B:569:PHE:CE2	2:D:63:PHE:CE1	3.05	0.44
1:A:176:LEU:HD13	1:A:180:GLU:HG2	2.00	0.44
1:A:442:ASN:HB3	1:A:593:PRO:HB2	1.99	0.44
1:A:595:PHE:CD2	1:A:595:PHE:N	2.85	0.44
1:B:595:PHE:CD2	1:B:595:PHE:N	2.83	0.44
1:A:311:PRO:HB3	1:A:364:ILE:HB	1.98	0.44
1:A:555:ASP:C	1:A:557:LEU:H	2.25	0.44
1:B:467:MET:HB3	1:B:498:TYR:HD1	1.83	0.44
2:C:58:PRO:HD2	2:C:61:TYR:HB2	1.99	0.44
1:A:564:ASN:HD21	1:A:566:MET:HB2	1.82	0.44
1:A:616:ILE:HD13	1:A:622:LYS:HA	2.00	0.44
1:B:472:SER:HB3	1:B:594:ILE:HD12	1.99	0.44
1:A:683:ALA:O	1:A:684:GLU:C	2.61	0.44
1:B:176:LEU:HB3	1:B:180:GLU:HG2	1.98	0.44
1:B:202:ASN:C	1:B:202:ASN:OD1	2.60	0.44
1:B:228:LEU:N	1:B:228:LEU:HD12	2.33	0.44
1:A:616:ILE:HG12	1:A:617:SER:N	2.33	0.44
1:B:457:GLY:O	1:B:461:GLU:HG3	2.18	0.44
1:A:439:TRP:HH2	1:B:557:LEU:O	1.99	0.44
1:A:549:SER:O	1:A:552:HIS:N	2.51	0.44
1:A:777:TYR:HE2	1:A:781:TRP:HB2	1.82	0.44
1:B:228:LEU:O	1:B:231:THR:HB	2.17	0.44
1:B:504:VAL:C	1:B:506:PRO:HD2	2.43	0.44
1:B:556:MET:HB3	1:B:565:TRP:CD1	2.53	0.44
1:B:619:ASN:O	1:B:620:GLU:C	2.60	0.44
1:A:396:ALA:O	1:A:397:ALA:C	2.60	0.43
1:A:674:LEU:HD21	1:A:685:ILE:HD12	2.00	0.43
1:A:419:ALA:O	1:A:421:ILE:N	2.52	0.43
1:B:429:CYS:SG	1:B:455:GLN:HG2	2.58	0.43
1:A:376:ASN:HA	1:A:379:LYS:CD	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:ILE:C	1:B:389:LYS:H	2.25	0.43
2:C:60:GLU:CD	2:C:60:GLU:H	2.27	0.43
1:A:185:LEU:O	1:A:188:LEU:HB3	2.18	0.43
1:A:189:SER:O	1:A:192:ARG:HG2	2.17	0.43
1:A:458:MET:HE2	1:A:490:ARG:NH2	2.34	0.43
2:C:76:HIS:HB3	2:C:79:ILE:HG13	2.00	0.43
1:A:238:LEU:HB2	1:A:257:ASN:O	2.19	0.43
1:A:426:GLU:HB3	1:A:427:PRO:CD	2.49	0.43
1:A:516:CYS:C	1:A:518:GLY:N	2.77	0.43
1:B:460:PHE:CE2	1:B:474:PHE:HD1	2.37	0.43
1:B:683:ALA:O	1:B:684:GLU:C	2.62	0.43
2:D:60:GLU:CD	2:D:60:GLU:H	2.27	0.43
1:B:444:ILE:HD11	1:B:557:LEU:HD13	2.01	0.43
1:B:459:TYR:CD2	1:B:459:TYR:C	2.97	0.43
1:B:564:ASN:HD21	1:B:566:MET:HB2	1.84	0.43
1:B:724:TYR:HD1	1:B:737:TYR:CE1	2.37	0.43
1:A:342:ASP:O	1:A:343:LEU:HD23	2.18	0.43
1:A:538:SER:HA	1:A:591:SER:O	2.18	0.43
1:B:633:LYS:HD2	2:D:93:GLU:HG3	1.99	0.43
1:A:504:VAL:C	1:A:506:PRO:HD2	2.43	0.43
1:A:741:LEU:C	1:A:743:ARG:N	2.74	0.43
1:B:181:LEU:O	1:B:182:THR:C	2.62	0.43
1:B:222:ASN:HA	1:B:242:VAL:HG22	2.01	0.43
1:B:238:LEU:HD13	1:B:258:PHE:CE1	2.54	0.43
1:A:222:ASN:HA	1:A:242:VAL:HG22	2.01	0.42
1:A:258:PHE:HB2	1:A:276:ASN:O	2.18	0.42
1:B:279:ASN:HA	1:B:301:GLU:O	2.20	0.42
1:A:182:THR:O	1:A:186:ILE:HG23	2.19	0.42
1:A:557:LEU:O	1:B:439:TRP:HH2	2.03	0.42
1:B:398:PHE:CD2	1:B:400:PRO:HB3	2.54	0.42
1:A:228:LEU:O	1:A:229:ASP:C	2.62	0.42
1:A:459:TYR:CD2	1:A:459:TYR:C	2.96	0.42
1:B:211:LEU:HD23	1:B:211:LEU:N	2.34	0.42
1:B:445:MET:HE3	1:B:477:ILE:HD11	2.00	0.42
1:B:675:LYS:O	1:B:676:ASP:HB2	2.19	0.42
1:A:404:MET:HE3	1:A:452:SER:OG	2.19	0.42
1:A:565:TRP:O	1:A:568:PHE:HE2	2.03	0.42
1:B:413:HIS:CG	1:B:414:PRO:HA	2.53	0.42
1:B:565:TRP:O	1:B:568:PHE:HE2	2.02	0.42
1:B:242:VAL:C	1:B:243:LEU:HD12	2.45	0.42
1:A:597:ILE:N	1:A:598:PRO:CD	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:658:TRP:HH2	1:A:710:GLU:OE2	2.02	0.42
1:B:580:PHE:HB3	1:B:632:ASN:CB	2.49	0.42
1:B:619:ASN:O	1:B:621:LEU:N	2.52	0.42
2:D:117:PRO:O	2:D:120:PRO:HD3	2.20	0.42
1:A:181:LEU:O	1:A:182:THR:C	2.61	0.42
1:A:454:LEU:HB2	1:A:487:MET:HE1	2.01	0.42
1:B:228:LEU:O	1:B:229:ASP:C	2.61	0.42
1:B:634:SER:OG	1:B:701:MET:HE2	2.20	0.42
2:D:-1:GLY:C	2:D:1:MET:H	2.28	0.42
1:B:254:ASN:O	1:B:256:CYS:N	2.53	0.42
1:B:426:GLU:N	1:B:427:PRO:HD2	2.35	0.42
1:B:466:ALA:O	1:B:467:MET:C	2.63	0.42
1:B:597:ILE:HD13	1:B:597:ILE:HA	1.75	0.42
2:C:117:PRO:O	2:C:120:PRO:HD3	2.20	0.42
1:A:221:VAL:CG1	1:A:223:PHE:CE2	3.03	0.42
1:B:426:GLU:HB3	1:B:427:PRO:CD	2.50	0.42
1:B:499:LEU:HA	1:B:504:VAL:HG11	2.02	0.42
1:B:576:VAL:HG11	2:D:98:ALA:HB2	2.01	0.42
1:A:472:SER:HB3	1:A:594:ILE:CD1	2.49	0.41
1:A:671:SER:C	1:A:673:VAL:N	2.78	0.41
1:A:724:TYR:HD1	1:A:737:TYR:CE1	2.37	0.41
1:A:754:THR:O	1:A:758:THR:HG23	2.20	0.41
1:B:203:TYR:O	1:B:223:PHE:HA	2.19	0.41
1:B:560:ASN:OD1	1:B:560:ASN:N	2.52	0.41
2:C:105:ILE:C	2:C:107:SER:N	2.78	0.41
1:A:254:ASN:O	1:A:256:CYS:N	2.53	0.41
1:A:256:CYS:SG	1:A:257:ASN:N	2.93	0.41
1:A:299:LEU:HD11	1:A:313:MET:CE	2.50	0.41
1:A:371:SER:O	1:A:372:ASP:C	2.62	0.41
1:A:597:ILE:HD13	1:A:597:ILE:HA	1.78	0.41
1:A:211:LEU:HD23	1:A:211:LEU:N	2.34	0.41
1:A:238:LEU:HD13	1:A:258:PHE:CE1	2.55	0.41
1:A:321:GLY:H	1:A:338:GLY:HA3	1.85	0.41
1:A:398:PHE:CD2	1:A:400:PRO:HB3	2.55	0.41
1:B:357:TYR:OH	1:B:404:MET:HE2	2.20	0.41
1:B:565:TRP:HB3	1:B:588:PHE:HE2	1.83	0.41
1:B:580:PHE:CD2	1:B:632:ASN:ND2	2.88	0.41
1:B:331:SER:CB	1:B:389:LYS:HZ1	2.34	0.41
1:B:652:ASN:N	1:B:653:PRO:CD	2.84	0.41
1:B:658:TRP:HH2	1:B:710:GLU:OE2	2.03	0.41
1:A:194:GLY:H	1:A:196:GLU:CD	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:499:LEU:HA	1:A:504:VAL:HG11	2.02	0.41
1:A:513:PHE:HB2	1:A:547:MET:CE	2.51	0.41
1:B:300:ASN:OD1	1:B:300:ASN:N	2.54	0.41
1:B:462:ARG:O	1:B:464:PRO:HD3	2.21	0.41
1:B:576:VAL:C	1:B:577:GLN:HG2	2.45	0.41
1:B:616:ILE:HG12	1:B:617:SER:N	2.34	0.41
1:B:634:SER:C	1:B:636:TYR:H	2.26	0.41
1:A:453:LEU:HD21	1:A:481:GLY:HA2	2.01	0.41
1:A:565:TRP:HB3	1:A:588:PHE:HE2	1.82	0.41
1:A:560:ASN:OD1	1:A:560:ASN:N	2.53	0.41
1:B:238:LEU:HB2	1:B:257:ASN:O	2.21	0.41
1:B:408:ASP:HA	1:B:451:GLY:HA3	2.02	0.41
1:B:463:HIS:C	1:B:465:GLY:H	2.29	0.41
1:B:487:MET:CE	1:B:491:PHE:HE2	2.34	0.41
1:B:557:LEU:HD23	1:B:557:LEU:HA	1.88	0.41
2:C:33:LEU:O	2:C:57:PHE:O	2.39	0.41
2:D:118:GLU:C	2:D:120:PRO:HD3	2.46	0.41
2:D:136:PHE:O	2:D:140:ALA:HB2	2.21	0.41
1:A:565:TRP:O	1:A:568:PHE:CE2	2.74	0.41
1:B:222:ASN:HA	1:B:242:VAL:CG2	2.51	0.41
1:A:271:LEU:H	1:A:271:LEU:CD1	2.32	0.41
1:A:421:ILE:O	1:A:424:TRP:HB3	2.21	0.41
1:A:436:ILE:O	1:A:437:MET:C	2.63	0.41
1:A:684:GLU:CG	1:A:769:PHE:HD2	2.34	0.41
1:B:353:VAL:HG13	1:B:364:ILE:CG2	2.48	0.41
2:C:118:GLU:C	2:C:120:PRO:HD3	2.46	0.41
2:D:101:THR:HA	2:D:104:VAL:HG12	2.02	0.41
1:A:365:LEU:O	1:A:369:ASN:HB2	2.21	0.41
1:A:387:ILE:C	1:A:389:LYS:N	2.79	0.41
1:A:516:CYS:HB2	2:C:9:LYS:HE3	2.02	0.41
2:D:57:PHE:HA	2:D:58:PRO:HD3	1.83	0.41
1:A:412:ILE:HA	1:A:416:LEU:HD21	2.03	0.40
1:A:652:ASN:N	1:A:653:PRO:CD	2.84	0.40
1:B:421:ILE:O	1:B:424:TRP:HB3	2.21	0.40
1:B:453:LEU:HD21	1:B:481:GLY:HA2	2.03	0.40
1:B:547:MET:HE3	1:B:547:MET:HB2	1.92	0.40
1:B:616:ILE:HD13	1:B:622:LYS:CA	2.51	0.40
1:B:708:SER:HA	1:B:709:PRO:HD3	1.92	0.40
1:A:460:PHE:CD2	1:A:474:PHE:HD1	2.39	0.40
1:B:272:PHE:H	1:B:272:PHE:HD1	1.67	0.40
2:C:34:THR:O	2:C:35:TRP:HD1	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:78:ASN:HD22	2:C:111:LEU:HD11	1.86	0.40
1:A:203:TYR:O	1:A:223:PHE:HA	2.22	0.40
1:A:765:ALA:HA	1:A:769:PHE:CE1	2.56	0.40
1:B:584:LEU:HD23	1:B:584:LEU:HA	1.82	0.40
2:D:67:LYS:HG2	2:D:69:THR:HG23	2.02	0.40
1:A:242:VAL:C	1:A:243:LEU:HD12	2.46	0.40
1:A:445:MET:HE3	1:A:477:ILE:HD11	2.04	0.40
1:A:728:PRO:C	1:A:730:VAL:N	2.79	0.40
1:B:234:ARG:O	1:B:235:MET:HB2	2.21	0.40
1:B:271:LEU:H	1:B:271:LEU:CD1	2.33	0.40
1:B:580:PHE:C	1:B:582:TYR:H	2.30	0.40
1:A:214:VAL:H	1:A:214:VAL:HG12	1.58	0.40
1:B:724:TYR:CD1	1:B:737:TYR:CE1	3.10	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	602/616 (98%)	480 (80%)	115 (19%)	7 (1%)	10	37
1	B	602/616 (98%)	485 (81%)	112 (19%)	5 (1%)	16	45
2	C	143/156 (92%)	122 (85%)	19 (13%)	2 (1%)	9	33
2	D	150/156 (96%)	127 (85%)	21 (14%)	2 (1%)	9	35
All	All	1497/1544 (97%)	1214 (81%)	267 (18%)	16 (1%)	11	39

All (16) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	615	LEU
1	B	615	LEU

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Mol	Chain	Res	Type
2	C	31	ASN
2	D	31	ASN
1	A	190	ALA
1	A	274	ASN
1	A	305	THR
1	A	344	SER
1	B	190	ALA
1	B	305	THR
1	B	344	SER
1	B	374	LYS
1	A	420	ASN
2	C	92	ALA
2	D	92	ALA
1	A	559	PRO

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	433/548 (79%)	390 (90%)	43 (10%)	7	27
1	B	429/548 (78%)	388 (90%)	41 (10%)	8	29
2	C	64/139 (46%)	63 (98%)	1 (2%)	55	72
2	D	79/139 (57%)	77 (98%)	2 (2%)	42	64
All	All	1005/1374 (73%)	918 (91%)	87 (9%)	9	32

All (87) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	186	ILE
1	A	193	THR
1	A	206	CYS
1	A	211	LEU
1	A	214	VAL
1	A	221	VAL
1	A	231	THR

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Mol	Chain	Res	Type
1	A	257	ASN
1	A	263	LEU
1	A	265	ASN
1	A	271	LEU
1	A	272	PHE
1	A	293	ILE
1	A	320	LEU
1	A	323	VAL
1	A	353	VAL
1	A	358	THR
1	A	386	LEU
1	A	402	VAL
1	A	406	LEU
1	A	408	ASP
1	A	428	ILE
1	A	439	TRP
1	A	444	ILE
1	A	446	MET
1	A	497	VAL
1	A	499	LEU
1	A	529	ASP
1	A	536	LEU
1	A	544	MET
1	A	549	SER
1	A	553	MET
1	A	560	ASN
1	A	566	MET
1	A	576	VAL
1	A	594	ILE
1	A	629	LEU
1	A	630	ASN
1	A	658	TRP
1	A	701	MET
1	A	736	TYR
1	A	753	CYS
1	A	769	PHE
1	B	186	ILE
1	B	191	ASN
1	B	206	CYS
1	B	211	LEU
1	B	214	VAL
1	B	231	THR

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Mol	Chain	Res	Type
1	B	257	ASN
1	B	265	ASN
1	B	271	LEU
1	B	272	PHE
1	B	293	ILE
1	B	316	SER
1	B	320	LEU
1	B	323	VAL
1	B	353	VAL
1	B	358	THR
1	B	386	LEU
1	B	402	VAL
1	B	406	LEU
1	B	408	ASP
1	B	428	ILE
1	B	439	TRP
1	B	444	ILE
1	B	446	MET
1	B	497	VAL
1	B	499	LEU
1	B	529	ASP
1	B	536	LEU
1	B	544	MET
1	B	549	SER
1	B	553	MET
1	B	560	ASN
1	B	576	VAL
1	B	594	ILE
1	B	629	LEU
1	B	630	ASN
1	B	658	TRP
1	B	701	MET
1	B	736	TYR
1	B	739	ASP
1	B	753	CYS
2	C	42	ASP
2	D	0	SER
2	D	55	ILE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (10) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	413	HIS
1	A	564	ASN
1	A	664	HIS
1	B	413	HIS
1	B	564	ASN
1	B	664	HIS
2	C	56	ASN
2	C	76	HIS
2	D	56	ASN
2	D	76	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 oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

12 ligands are modelled in this entry.

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	$\# Z > 2$
3	SO4	A	4	-	4,4,4	0.23	0	6,6,6	0.14	0
3	SO4	B	9	-	4,4,4	0.24	0	6,6,6	0.09	0
3	SO4	A	7	-	4,4,4	0.24	0	6,6,6	0.10	0
4	GOL	A	783	-	5,5,5	0.38	0	5,5,5	0.36	0
3	SO4	B	3	-	4,4,4	0.25	0	6,6,6	0.31	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	GOL	A	1	-	5,5,5	0.39	0	5,5,5	0.36	0
4	GOL	C	155	-	5,5,5	0.37	0	5,5,5	0.30	0
3	SO4	A	6	-	4,4,4	0.24	0	6,6,6	0.07	0
3	SO4	B	1	-	4,4,4	0.24	0	6,6,6	0.08	0
3	SO4	A	8	-	4,4,4	0.24	0	6,6,6	0.11	0
3	SO4	A	2	-	4,4,4	0.23	0	6,6,6	0.18	0
3	SO4	A	5	-	4,4,4	0.23	0	6,6,6	0.06	0

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	GOL	C	155	-	-	2/4/4/4	-
4	GOL	A	783	-	-	2/4/4/4	-
4	GOL	A	1	-	-	2/4/4/4	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	A	783	GOL	O1-C1-C2-C3
4	C	155	GOL	O1-C1-C2-O2
4	C	155	GOL	O1-C1-C2-C3
4	A	1	GOL	O1-C1-C2-C3
4	A	783	GOL	O1-C1-C2-O2
4	A	1	GOL	O1-C1-C2-O2

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	B	3	SO4	1	0

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	606/616 (98%)	0.47	26 (4%)	40 25	55, 114, 194, 302	0
1	B	606/616 (98%)	0.44	29 (4%)	35 24	57, 113, 187, 413	0
2	C	147/156 (94%)	0.72	9 (6%)	27 18	108, 178, 282, 417	0
2	D	152/156 (97%)	0.49	7 (4%)	37 25	94, 149, 214, 339	0
All	All	1511/1544 (97%)	0.49	71 (4%)	36 24	55, 122, 215, 417	0

All (71) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	700	ASP	4.8
1	B	332	ASN	4.8
1	A	241	ALA	4.2
1	A	615	LEU	4.1
1	B	398	PHE	4.0
1	B	393	ASP	3.9
2	C	102	ASP	3.9
1	B	397	ALA	3.9
1	A	398	PHE	3.9
2	C	40	VAL	3.8
1	B	528	SER	3.8
1	A	328	SER	3.6
2	D	83	GLY	3.6
1	A	676	ASP	3.6
1	B	337	GLY	3.4
1	B	325	GLU	3.3
2	C	21	ASN	3.3
1	B	396	ALA	3.1
1	B	663	GLN	3.0
1	B	651	TRP	2.9
2	C	60	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
1	B	769	PHE	2.8
1	A	396	ALA	2.8
1	A	688	CYS	2.7
2	D	70	PHE	2.7
2	C	35	TRP	2.6
2	C	70	PHE	2.6
1	B	570	LEU	2.6
2	C	130	SER	2.6
1	A	758	THR	2.6
1	A	607	PHE	2.6
1	A	630	ASN	2.6
1	A	736	TYR	2.5
1	B	753	CYS	2.5
1	A	332	ASN	2.5
2	D	137	CYS	2.5
1	A	706	TYR	2.5
1	B	772	ILE	2.4
1	A	744	LEU	2.4
1	B	754	THR	2.4
1	A	772	ILE	2.4
2	D	81	GLU	2.4
1	A	617	SER	2.4
1	B	391	SER	2.4
1	A	753	CYS	2.4
1	A	191	ASN	2.4
1	A	255	GLU	2.4
1	B	214	VAL	2.4
2	C	31	ASN	2.3
1	A	771	GLU	2.3
1	A	699	SER	2.2
1	A	212	SER	2.2
1	B	699	SER	2.2
1	B	180	GLU	2.2
1	B	187	TRP	2.2
1	A	187	TRP	2.2
1	B	430	ASP	2.1
1	B	527	ASP	2.1
1	A	326	LEU	2.1
2	D	124	ASP	2.1
1	B	509	GLN	2.1
2	D	77	PRO	2.1
1	B	639	ILE	2.1

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Mol	Chain	Res	Type	RSRZ
2	D	98	ALA	2.1
1	A	668	ILE	2.0
1	B	658	TRP	2.0
1	B	758	THR	2.0
1	A	618	ASP	2.0
1	B	707	ASP	2.0
2	C	45	PRO	2.0
1	B	689	LEU	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(Å ²)	Q<0.9
3	SO4	A	5	5/5	0.25	0.15	241,241,241,241	0
3	SO4	A	7	5/5	0.32	0.11	187,187,187,187	0
3	SO4	B	9	5/5	0.58	0.10	219,219,219,219	0
4	GOL	A	1	6/6	0.66	0.17	134,134,134,134	0
3	SO4	A	8	5/5	0.71	0.07	203,203,203,203	0
4	GOL	A	783	6/6	0.73	0.29	125,125,125,125	0
3	SO4	A	6	5/5	0.80	0.12	179,179,179,179	0
3	SO4	B	1	5/5	0.83	0.11	141,141,141,141	0
3	SO4	A	2	5/5	0.84	0.13	131,131,131,131	0
3	SO4	A	4	5/5	0.86	0.09	152,152,152,152	0
4	GOL	C	155	6/6	0.86	0.14	157,157,157,157	0
3	SO4	B	3	5/5	0.90	0.07	118,118,118,118	0

6.5 Other polymers [i](#)

There are no such residues in this entry.