



Full wwPDB X-ray Structure Validation Report i

Sep 21, 2017 – 09:36 AM EDT

PDB ID : 5H3U
Title : Sm RNA bound to GEMIN5-WD
Authors : Bharath, S.R.; Tang, X.; Song, H.
Deposited on : unknown
Resolution : 2.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<http://wwpdb.org/validation/2016/XrayValidationReportHelp>
with specific help available everywhere you see the i symbol.

The following versions of software and data (see [references](#) ①) were used in the production of this report:

MolProbity	:	4.02b-467
Mogul	:	1.7.2 (RC1), CSD as538be (2017)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20029824
Percentile statistics	:	20161228.v01 (using entries in the PDB archive December 28th 2016)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	rb-20029824

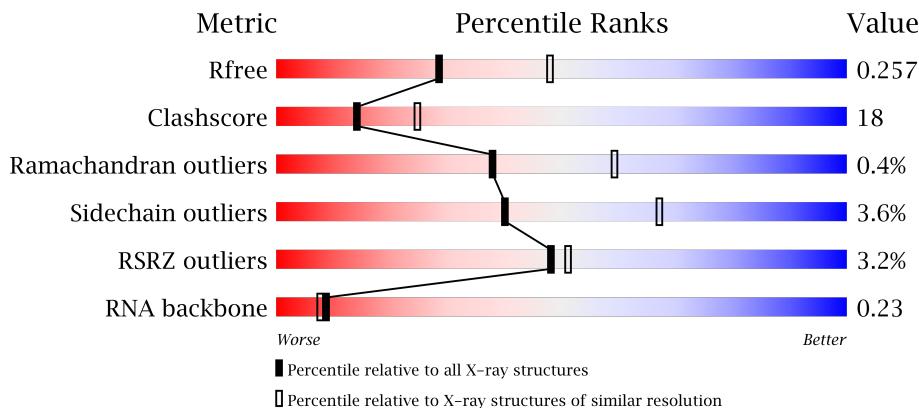
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

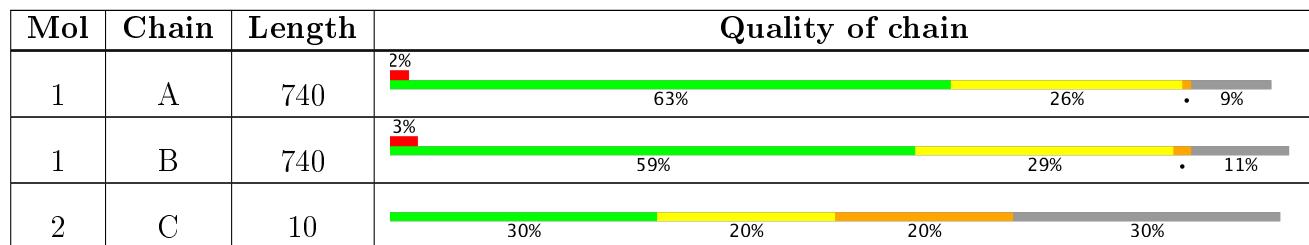
The reported resolution of this entry is 2.50 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	100719	3846 (2.50-2.50)
Clashscore	112137	4554 (2.50-2.50)
Ramachandran outliers	110173	4463 (2.50-2.50)
Sidechain outliers	110143	4465 (2.50-2.50)
RSRZ outliers	101464	3876 (2.50-2.50)
RNA backbone	2435	1019 (2.90-2.10)

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. 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.



The following table lists non-polymeric compounds, carbohydrate monomers and non-standard

residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	GOL	A	801	-	-	X	X

2 Entry composition (i)

There are 4 unique types of molecules in this entry. The entry contains 10548 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 Gem-associated protein 5.

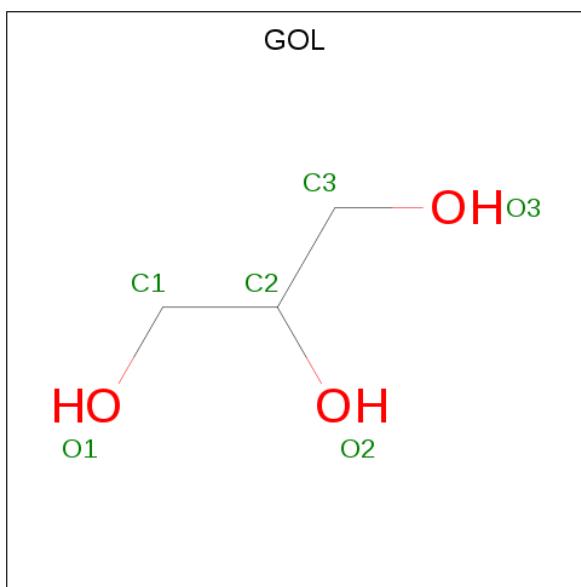
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	670	Total	C	N	O	S	0	0	0
			5171	3296	890	957	28			

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	B	662	Total	C	N	O	S	0	0	0
			5117	3261	883	945	28			

- Molecule 2 is a RNA chain called RNA (5'-R(*AP*AP*UP*UP*UP*UP*UP*GP*AP*C)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	7	Total	C	N	O	P	0	0	0
			141	65	20	50	6			

- Molecule 3 is GLYCEROL (three-letter code: GOL) (formula: C₃H₈O₃).



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

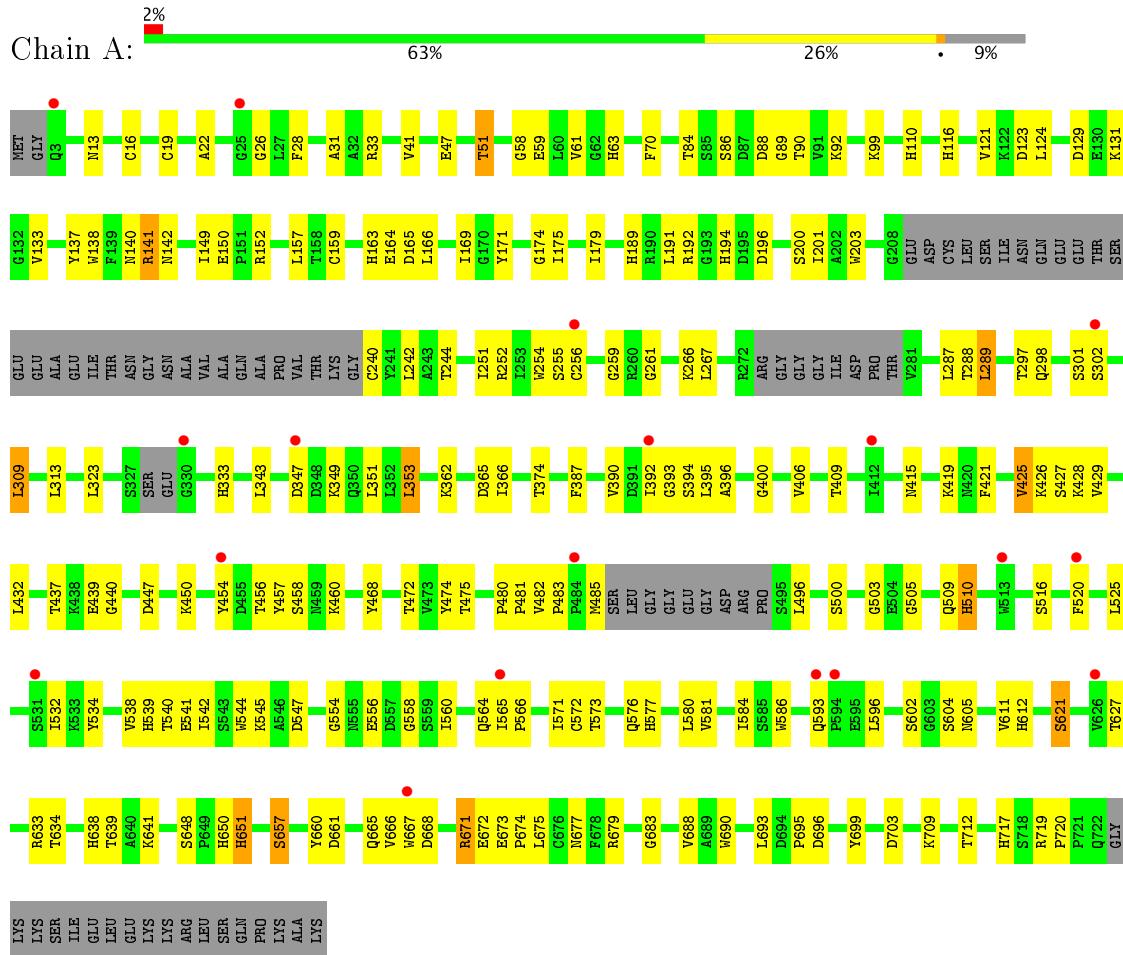
- Molecule 4 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
4	A	84	Total O 84 84	0	0
4	B	23	Total O 23 23	0	0
4	C	6	Total O 6 6	0	0

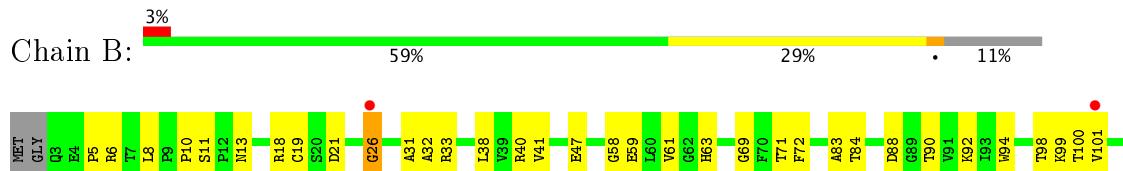
3 Residue-property plots [\(i\)](#)

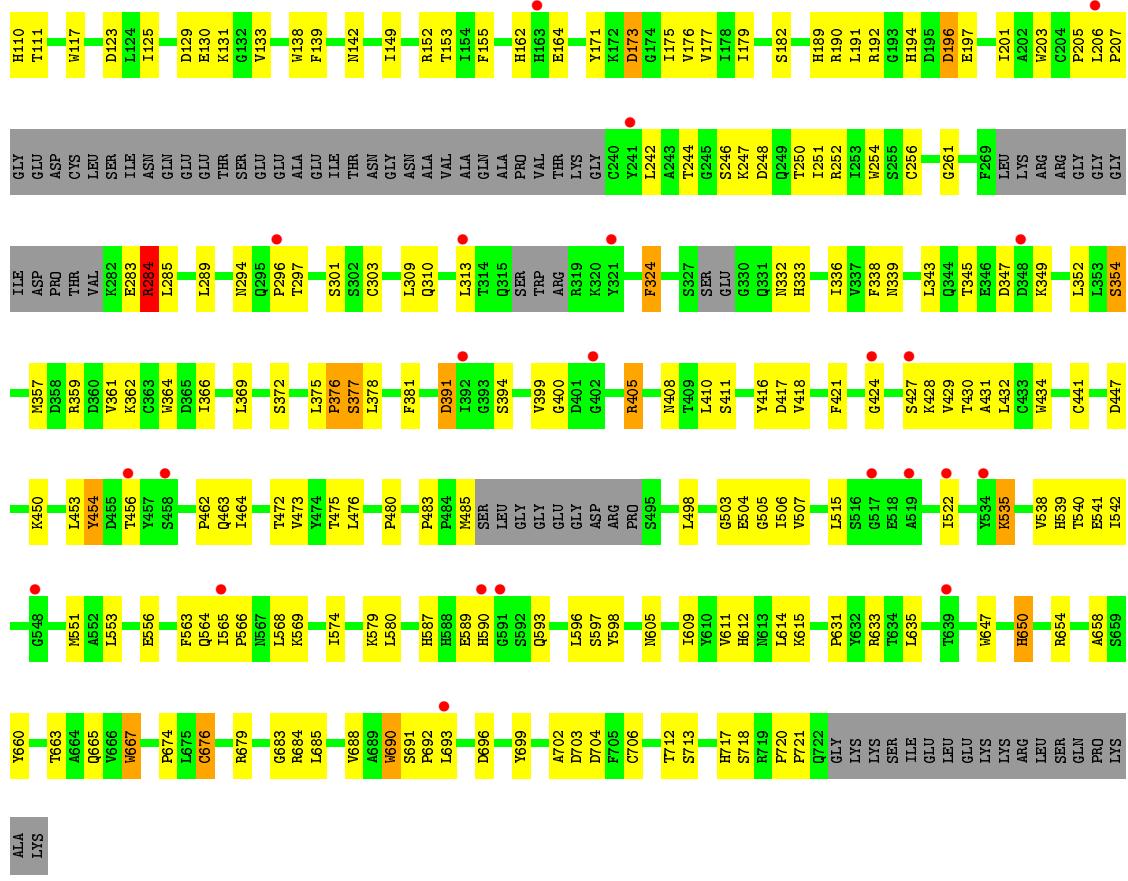
These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are 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 ($RSRZ > 2$). 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: Gem-associated protein 5



- Molecule 1: Gem-associated protein 5





- Molecule 2: RNA ($5'-R(*AP*AP*UP*UP*UP*UP*UP*GP*AP*C)-3'$)

Chain C: 30% 20% 20% 30%



4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	76.84Å 92.08Å 110.80Å 90.00° 99.99° 90.00°	Depositor
Resolution (Å)	48.88 – 2.50 48.88 – 2.49	Depositor EDS
% Data completeness (in resolution range)	97.8 (48.88-2.50) 96.9 (48.88-2.49)	Depositor EDS
R_{merge}	0.12	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ ¹	0.98 (at 2.48Å)	Xtriage
Refinement program	PHENIX (dev_2386: ???)	Depositor
R , R_{free}	0.202 , 0.256 0.205 , 0.257	Depositor DCC
R_{free} test set	2583 reflections (5.00%)	DCC
Wilson B-factor (Å ²)	45.2	Xtriage
Anisotropy	0.147	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 59.7	EDS
L-test for twinning ²	$< L > = 0.49$, $< L^2 > = 0.32$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.94	EDS
Total number of atoms	10548	wwPDB-VP
Average B, all atoms (Å ²)	58.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 4.16% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality i

5.1 Standard geometry i

Bond lengths and bond angles in the following residue types are not validated in this section: GOL

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	0.47	0/5322	0.62	1/7269 (0.0%)
1	B	0.43	1/5266 (0.0%)	0.62	3/7191 (0.0%)
2	C	0.51	0/156	1.03	0/240
All	All	0.45	1/10744 (0.0%)	0.63	4/14700 (0.0%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	377	SER	C-N	-5.31	1.21	1.34

All (4) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	376	PRO	O-C-N	-9.19	108.00	122.70
1	B	376	PRO	C-N-CA	7.67	140.87	121.70
1	B	376	PRO	CA-C-N	5.72	129.79	117.20
1	A	309	LEU	O-C-N	-5.64	113.67	122.70

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts i

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	5171	0	4942	184	0
1	B	5117	0	4901	174	0
2	C	141	0	74	4	0
3	A	6	0	8	6	0
4	A	84	0	0	4	0
4	B	23	0	0	1	0
4	C	6	0	0	0	0
All	All	10548	0	9925	357	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 18.

All (357) 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:A:110:HIS:CG	1:A:131:LYS:HG3	1.76	1.21
1:A:289:LEU:HD23	1:A:301:SER:HB3	1.22	1.10
1:A:482:VAL:H	1:A:509:GLN:HE22	1.08	1.01
1:A:110:HIS:CD2	1:A:131:LYS:HG3	1.98	0.97
1:A:576:GLN:HE21	1:A:612:HIS:HE1	1.06	0.95
1:A:289:LEU:HD23	1:A:301:SER:CB	2.01	0.90
1:B:13:ASN:HD21	1:B:33:ARG:H	1.20	0.89
1:A:110:HIS:CG	1:A:131:LYS:CG	2.56	0.89
1:B:58:GLY:HA3	1:B:99:LYS:HE2	1.53	0.88
1:B:289:LEU:CD2	1:B:301:SER:CB	2.51	0.88
1:A:116:HIS:HD2	1:A:159:CYS:H	1.21	0.87
1:A:421:PHE:HD2	1:A:454:TYR:HH	1.25	0.84
1:B:665:GLN:NE2	1:B:674:PRO:HB3	1.91	0.84
1:B:88:ASP:HB3	1:B:90:THR:HG22	1.57	0.84
1:A:149:ILE:HG22	1:A:150:GLU:HG2	1.63	0.80
1:B:289:LEU:HD23	1:B:301:SER:CB	2.13	0.79
1:A:576:GLN:HE21	1:A:612:HIS:CE1	1.97	0.79
1:B:289:LEU:CD2	1:B:301:SER:HB3	2.12	0.79
1:A:240:CYS:HB3	1:A:256:CYS:HB3	1.65	0.79
1:A:63:HIS:HE1	1:A:84:THR:OG1	1.66	0.77
1:B:565:ILE:HG23	1:B:566:PRO:HD3	1.67	0.77
1:A:482:VAL:H	1:A:509:GLN:NE2	1.83	0.77
1:A:390:VAL:HG21	1:A:437:THR:O	1.85	0.77
1:B:289:LEU:CD2	1:B:301:SER:HB2	2.15	0.76
1:A:123:ASP:OD2	1:A:140:ASN:HB2	1.85	0.76
1:A:13:ASN:HD21	1:A:33:ARG:H	1.31	0.75
1:A:289:LEU:CD2	1:A:301:SER:HB3	2.12	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:6:ARG:NH2	1:B:47:GLU:OE2	2.21	0.74
1:A:22:ALA:HB1	1:A:343:LEU:HD23	1.70	0.74
1:A:297:THR:HG22	1:A:298:GLN:NE2	2.02	0.73
1:A:116:HIS:CD2	1:A:159:CYS:H	2.06	0.73
1:B:410:LEU:HG	1:B:693:LEU:HD21	1.72	0.72
3:A:801:GOL:O2	1:B:717:HIS:HD2	1.73	0.71
1:B:658:ALA:HB2	1:B:688:VAL:HG13	1.71	0.71
1:B:429:VAL:HG11	1:B:432:LEU:HD11	1.73	0.71
1:B:26:GLY:HA3	1:B:41:VAL:O	1.92	0.70
1:A:421:PHE:HD2	1:A:454:TYR:CZ	2.10	0.69
1:A:201:ILE:HG12	1:A:244:THR:HG22	1.75	0.69
1:B:92:LYS:HD2	1:B:101:VAL:HG21	1.75	0.69
1:B:194:HIS:CE1	1:B:252:ARG:HG3	2.29	0.68
1:A:421:PHE:CD2	1:A:454:TYR:CE1	2.82	0.68
1:A:26:GLY:HA2	1:A:343:LEU:HD11	1.75	0.67
1:A:665:GLN:NE2	1:A:674:PRO:HB3	2.09	0.67
1:A:392:ILE:HG12	1:A:693:LEU:HD21	1.77	0.67
1:A:392:ILE:HG12	1:A:693:LEU:CD2	2.24	0.67
1:A:421:PHE:CD2	1:A:454:TYR:CZ	2.83	0.66
1:A:593:GLN:HB2	1:A:596:LEU:HG	1.78	0.66
1:A:648:SER:OG	1:A:651:HIS:HD2	1.78	0.66
1:A:110:HIS:ND1	1:A:131:LYS:HE3	2.11	0.65
1:A:576:GLN:NE2	1:A:612:HIS:HE1	1.89	0.65
1:A:33:ARG:HD3	2:C:6:U:O2'	1.97	0.65
1:B:683:GLY:HA3	1:B:703:ASP:OD1	1.96	0.65
1:B:289:LEU:HD23	1:B:301:SER:HB2	1.78	0.65
1:B:63:HIS:CE1	1:B:90:THR:HG23	2.32	0.65
1:B:345:THR:OG1	1:B:349:LYS:HB2	1.96	0.64
1:B:38:LEU:HD12	1:B:99:LYS:HE3	1.78	0.64
3:A:801:GOL:H31	1:B:679:ARG:HH22	1.63	0.64
1:A:152:ARG:HB2	1:A:171:TYR:CD2	2.32	0.64
1:B:352:LEU:HB2	1:B:366:ILE:HD11	1.80	0.64
1:B:289:LEU:HD21	1:B:301:SER:HB2	1.79	0.63
1:B:431:ALA:O	1:B:432:LEU:HD12	1.98	0.63
1:A:13:ASN:ND2	2:C:6:U:H3	1.96	0.63
1:A:611:VAL:HB	1:A:633:ARG:HB2	1.81	0.63
1:B:345:THR:HG21	1:B:349:LYS:HE2	1.81	0.63
1:B:696:ASP:OD1	1:B:712:THR:HB	1.99	0.62
1:B:475:THR:HG23	1:B:542:ILE:HG22	1.80	0.62
1:B:574:ILE:HD11	1:B:614:LEU:HD11	1.81	0.62
1:A:141:ARG:HG3	1:A:141:ARG:O	1.98	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:189:HIS:NE2	1:A:256:CYS:O	2.32	0.62
1:A:696:ASP:OD1	1:A:712:THR:HB	2.00	0.62
1:B:447:ASP:HA	1:B:472:THR:HG23	1.80	0.62
1:A:149:ILE:HG12	1:A:179:ILE:HG21	1.82	0.62
1:B:142:ASN:O	1:B:142:ASN:ND2	2.33	0.62
1:A:638:HIS:HE1	1:A:657:SER:HB2	1.65	0.61
1:A:505:GLY:HA2	1:A:539:HIS:O	2.00	0.61
1:B:535:LYS:H	1:B:535:LYS:HD2	1.65	0.61
1:B:285:LEU:HA	1:B:336:ILE:HG21	1.83	0.60
1:A:421:PHE:HB3	1:A:454:TYR:CZ	2.36	0.60
1:A:110:HIS:ND1	1:A:131:LYS:HG3	2.15	0.60
1:B:450:LYS:HD3	1:B:464:ILE:HD12	1.83	0.60
1:B:692:PRO:HG2	1:B:693:LEU:HD12	1.83	0.60
1:B:111:THR:HB	1:B:130:GLU:CD	2.23	0.59
1:A:33:ARG:HG2	2:C:6:U:O2	2.02	0.59
1:A:121:VAL:HB	1:A:124:LEU:HB3	1.85	0.59
1:A:287:LEU:HD13	1:A:302:SER:O	2.03	0.59
1:A:13:ASN:ND2	1:A:33:ARG:H	1.99	0.59
1:B:676:CYS:SG	1:B:712:THR:HG23	2.43	0.59
1:A:605:ASN:HA	1:A:641:LYS:HB2	1.85	0.59
1:A:665:GLN:HE21	1:A:674:PRO:HB3	1.65	0.59
1:B:289:LEU:HD21	1:B:301:SER:CB	2.29	0.58
1:B:587:HIS:HD2	1:B:647:TRP:CE3	2.21	0.58
1:A:421:PHE:HD2	1:A:454:TYR:OH	1.84	0.58
1:B:63:HIS:HE1	1:B:90:THR:HG23	1.68	0.58
1:B:660:TYR:HA	1:B:684:ARG:HB3	1.85	0.58
1:B:189:HIS:NE2	1:B:256:CYS:O	2.36	0.58
1:B:251:ILE:HG12	1:B:289:LEU:HD11	1.84	0.58
1:A:554:GLY:HA3	1:A:581:VAL:CG2	2.34	0.58
1:A:421:PHE:HB3	1:A:454:TYR:CE2	2.39	0.58
1:A:638:HIS:CE1	1:A:657:SER:HB2	2.38	0.58
1:A:288:THR:HG22	1:A:289:LEU:N	2.19	0.57
1:A:309:LEU:HD23	1:A:323:LEU:HD12	1.86	0.57
1:A:500:SER:OG	1:A:510:HIS:CE1	2.57	0.57
1:B:26:GLY:HA2	1:B:343:LEU:HD21	1.86	0.57
1:B:98:THR:HG1	1:B:100:THR:HG1	1.52	0.57
1:A:396:ALA:HB1	1:A:432:LEU:HD13	1.86	0.57
1:A:564:GLN:HB2	1:A:571:ILE:CD1	2.35	0.57
1:A:51:THR:HG21	1:A:415:ASN:HD21	1.70	0.57
1:A:564:GLN:HB2	1:A:571:ILE:HD11	1.86	0.57
1:B:333:HIS:CE1	1:B:362:LYS:HG3	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:668:ASP:OD2	1:A:671:ARG:HG3	2.06	0.56
1:A:267:LEU:HD11	1:A:287:LEU:HD22	1.88	0.56
1:A:612:HIS:HD2	4:A:963:HOH:O	1.87	0.56
1:A:699:TYR:OH	1:A:709:LYS:NZ	2.37	0.56
1:A:347:ASP:OD1	1:A:347:ASP:O	2.24	0.55
1:A:63:HIS:CE1	1:A:84:THR:OG1	2.54	0.55
1:B:427:SER:HB2	1:B:447:ASP:OD1	2.06	0.55
1:A:406:VAL:HB	1:A:419:LYS:CG	2.36	0.55
1:A:425:VAL:O	1:A:427:SER:N	2.40	0.55
1:B:441:CYS:SG	1:B:453:LEU:HD11	2.47	0.55
1:A:665:GLN:OE1	1:A:677:ASN:HB2	2.06	0.55
1:B:284:ARG:HG3	1:B:336:ILE:HD13	1.87	0.55
1:A:673:GLU:HG2	1:A:675:LEU:HD23	1.89	0.55
1:B:654:ARG:HG2	1:B:690:TRP:CH2	2.42	0.55
1:A:480:PRO:HD2	1:A:544:TRP:CH2	2.42	0.54
1:B:303:CYS:HB2	1:B:309:LEU:HD13	1.89	0.54
1:A:717:HIS:HD1	3:A:801:GOL:HO2	1.55	0.54
3:A:801:GOL:O2	1:B:717:HIS:CD2	2.56	0.54
1:A:406:VAL:HB	1:A:419:LYS:HG3	1.90	0.54
1:B:665:GLN:HE21	1:B:674:PRO:HB3	1.70	0.54
1:B:702:ALA:HB3	1:B:704:ASP:OD1	2.07	0.54
1:B:347:ASP:OD2	1:B:349:LYS:HD3	2.08	0.54
1:A:400:GLY:HA3	2:C:7:U:O4	2.07	0.54
1:A:554:GLY:HA3	1:A:581:VAL:HG21	1.90	0.54
1:B:429:VAL:CG1	1:B:432:LEU:HD11	2.37	0.54
1:A:475:THR:HG23	1:A:542:ILE:HG22	1.90	0.54
1:A:638:HIS:HD2	1:A:661:ASP:OD2	1.91	0.54
1:B:201:ILE:HG12	1:B:244:THR:HG22	1.89	0.54
1:B:504:GLU:HG2	1:B:506:ILE:H	1.72	0.53
1:B:19:CYS:HB2	1:B:31:ALA:HB3	1.90	0.53
1:B:551:MET:HE1	1:B:568:LEU:HD22	1.90	0.53
1:B:658:ALA:HB1	1:B:685:LEU:HB3	1.89	0.53
1:A:137:TYR:OH	1:A:142:ASN:OD1	2.22	0.53
1:A:251:ILE:HG12	1:A:289:LEU:HD21	1.91	0.53
1:A:665:GLN:HE22	1:A:720:PRO:HD3	1.74	0.53
1:B:333:HIS:NE2	1:B:354:SER:HB3	2.24	0.53
1:B:542:ILE:HD11	1:B:551:MET:SD	2.49	0.53
1:A:665:GLN:NE2	1:A:720:PRO:HD3	2.24	0.52
1:A:163:HIS:HB3	1:A:166:LEU:HB2	1.92	0.52
1:A:26:GLY:HA3	1:A:41:VAL:O	2.10	0.52
1:B:13:ASN:ND2	1:B:33:ARG:H	2.00	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:11:SER:HA	1:B:377:SER:HB2	1.92	0.52
1:A:450:LYS:HB2	1:A:468:TYR:CE2	2.45	0.52
1:A:157:LEU:HD12	1:A:169:ILE:HG12	1.91	0.51
1:A:171:TYR:HB2	1:A:175:ILE:HG22	1.91	0.51
1:B:505:GLY:HA2	1:B:539:HIS:O	2.10	0.51
1:A:297:THR:HG22	1:A:298:GLN:HE21	1.73	0.51
1:A:500:SER:OG	1:A:510:HIS:HE1	1.94	0.51
1:A:677:ASN:HD22	1:A:679:ARG:HE	1.58	0.51
1:B:196:ASP:HB2	1:B:248:ASP:HB3	1.91	0.51
1:A:110:HIS:CE1	1:A:131:LYS:HE3	2.46	0.51
1:A:425:VAL:C	1:A:427:SER:H	2.14	0.51
1:B:10:PRO:HB2	1:B:32:ALA:HB1	1.92	0.51
1:A:59:GLU:HG2	1:A:61:VAL:HG22	1.93	0.50
1:B:579:LYS:HB3	1:B:605:ASN:HB2	1.91	0.50
1:A:191:LEU:HD13	1:A:254:TRP:CG	2.46	0.50
1:B:696:ASP:OD2	1:B:713:SER:OG	2.22	0.50
1:A:602:SER:HB2	4:A:963:HOH:O	2.11	0.50
1:A:163:HIS:CE1	1:A:165:ASP:HB2	2.47	0.50
1:B:424:GLY:HA3	1:B:462:PRO:HG2	1.93	0.50
1:A:665:GLN:HG3	1:A:666:VAL:N	2.26	0.50
1:B:391:ASP:HB3	1:B:394:SER:HB3	1.94	0.50
1:A:110:HIS:CB	1:A:131:LYS:HG2	2.43	0.49
1:A:719:ARG:NH2	1:B:720:PRO:O	2.45	0.49
1:B:424:GLY:HA3	1:B:462:PRO:CG	2.42	0.49
1:B:483:PRO:HA	1:B:485:MET:H	1.77	0.49
1:B:676:CYS:HA	1:B:718:SER:HA	1.95	0.49
1:A:633:ARG:HD2	1:A:672:GLU:HG3	1.93	0.49
1:B:130:GLU:O	1:B:153:THR:HA	2.10	0.49
1:B:191:LEU:HD13	1:B:254:TRP:CG	2.47	0.49
3:A:801:GOL:H12	1:B:717:HIS:HB3	1.93	0.49
1:A:505:GLY:HA3	1:A:538:VAL:HB	1.95	0.49
1:B:480:PRO:HG3	1:B:565:ILE:CD1	2.43	0.49
1:B:254:TRP:HA	1:B:261:GLY:HA2	1.94	0.49
1:B:303:CYS:HB2	1:B:309:LEU:CD1	2.43	0.49
1:B:650:HIS:HE1	1:B:692:PRO:O	1.95	0.49
1:B:663:THR:HG21	1:B:721:PRO:CD	2.42	0.49
1:A:482:VAL:N	1:A:509:GLN:HE22	1.92	0.49
1:B:381:PHE:O	1:B:399:VAL:HA	2.13	0.49
1:A:541:GLU:HG2	1:A:584:ILE:HG13	1.94	0.48
1:A:333:HIS:CE1	1:A:362:LYS:HD2	2.48	0.48
1:A:565:ILE:HG23	1:A:566:PRO:HD3	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:63:HIS:CE1	1:B:92:LYS:HG3	2.47	0.48
1:A:175:ILE:CD1	1:A:192:ARG:HG2	2.43	0.48
1:B:289:LEU:HD23	1:B:301:SER:HA	1.96	0.48
1:A:390:VAL:HG11	1:A:439:GLU:HB3	1.96	0.48
1:B:18:ARG:O	1:B:69:GLY:HA2	2.14	0.48
1:A:194:HIS:CE1	1:A:252:ARG:HD2	2.49	0.48
1:A:297:THR:O	1:A:313:LEU:HG	2.13	0.48
1:B:251:ILE:HD11	1:B:289:LEU:HD21	1.96	0.48
1:B:84:THR:HG1	1:B:94:TRP:HE1	1.60	0.48
1:B:505:GLY:HA3	1:B:538:VAL:HB	1.96	0.48
1:B:88:ASP:CB	1:B:90:THR:HG22	2.38	0.48
1:A:440:GLY:HA2	1:A:456:THR:HB	1.95	0.48
1:A:194:HIS:NE2	1:A:252:ARG:HD2	2.29	0.48
1:A:545:LYS:HG3	1:A:586:TRP:CE3	2.48	0.48
1:A:621:SER:OG	1:A:621:SER:O	2.26	0.47
1:A:556:GLU:HG3	1:A:580:LEU:HD12	1.95	0.47
1:B:691:SER:HB2	1:B:699:TYR:HE1	1.78	0.47
1:A:421:PHE:HD2	1:A:454:TYR:CE1	2.24	0.47
1:A:665:GLN:HE22	1:A:719:ARG:HA	1.79	0.47
1:A:683:GLY:HA3	1:A:703:ASP:OD1	2.14	0.47
1:A:28:PHE:CD1	1:A:353:LEU:HD13	2.49	0.47
1:B:297:THR:O	1:B:313:LEU:HG	2.15	0.47
1:B:173:ASP:N	1:B:173:ASP:OD1	2.48	0.47
1:B:21:ASP:OD2	1:B:72:PHE:HB2	2.15	0.47
1:A:425:VAL:CG1	1:A:429:VAL:HG22	2.45	0.47
1:B:378:LEU:HA	1:B:405:ARG:HH22	1.79	0.47
1:B:540:THR:HG21	1:B:580:LEU:HG	1.96	0.47
1:B:667:TRP:HB3	1:B:674:PRO:HA	1.96	0.47
1:A:483:PRO:HD2	1:A:525:LEU:HD21	1.97	0.46
1:B:289:LEU:HD23	1:B:301:SER:CA	2.44	0.46
1:A:19:CYS:HB2	1:A:31:ALA:HB3	1.97	0.46
1:A:480:PRO:HB2	1:A:565:ILE:HD11	1.96	0.46
1:B:63:HIS:CE1	1:B:92:LYS:HE2	2.50	0.46
1:B:152:ARG:HB2	1:B:171:TYR:CD1	2.50	0.46
1:A:70:PHE:HD1	1:A:84:THR:HG22	1.79	0.46
1:A:163:HIS:CG	1:A:166:LEU:HG	2.51	0.46
1:A:472:THR:HG23	1:A:474:TYR:CE1	2.51	0.46
1:A:297:THR:CG2	1:A:298:GLN:HE21	2.30	0.46
1:A:110:HIS:CB	1:A:131:LYS:CG	2.94	0.45
1:A:288:THR:CG2	1:A:289:LEU:N	2.79	0.45
1:A:458:SER:OG	1:A:460:LYS:HG3	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:51:THR:HG21	1:A:415:ASN:ND2	2.31	0.45
1:A:309:LEU:CD2	1:A:323:LEU:HD12	2.46	0.45
1:A:665:GLN:HG2	1:A:667:TRP:NE1	2.31	0.45
1:B:117:TRP:CD2	1:B:125:ILE:CD1	3.00	0.45
1:B:250:THR:HG21	1:B:252:ARG:NE	2.31	0.45
1:A:297:THR:CG2	1:A:298:GLN:NE2	2.74	0.45
1:B:248:ASP:OD1	1:B:250:THR:HB	2.17	0.45
1:B:429:VAL:CG1	1:B:432:LEU:CD1	2.95	0.45
1:B:251:ILE:CD1	1:B:289:LEU:HD21	2.46	0.45
1:B:399:VAL:HG21	1:B:405:ARG:HH21	1.81	0.45
1:A:59:GLU:HG2	1:A:61:VAL:CG2	2.46	0.45
1:B:650:HIS:CD2	1:B:650:HIS:H	2.34	0.45
1:A:254:TRP:HA	1:A:261:GLY:HA2	1.99	0.45
1:A:485:MET:HG3	1:A:520:PHE:CE2	2.52	0.45
1:A:63:HIS:CD2	1:A:92:LYS:HE2	2.52	0.45
1:A:560:ILE:HD11	1:A:602:SER:OG	2.17	0.44
1:A:393:GLY:O	1:A:409:THR:HB	2.17	0.44
1:A:634:THR:N	1:A:672:GLU:OE1	2.40	0.44
1:B:123:ASP:O	1:B:138:TRP:HA	2.18	0.44
1:B:123:ASP:HA	1:B:139:PHE:CE1	2.53	0.44
1:B:11:SER:OG	1:B:359:ARG:HD3	2.18	0.44
1:B:354:SER:O	1:B:361:VAL:HA	2.17	0.44
1:A:349:LYS:HD3	1:A:351:LEU:HD21	1.99	0.44
1:B:590:HIS:N	1:B:590:HIS:CD2	2.85	0.44
1:A:63:HIS:CD2	1:A:86:SER:CB	3.01	0.44
1:B:375:LEU:HD12	1:B:376:PRO:HD2	2.00	0.44
1:B:667:TRP:CD1	1:B:667:TRP:N	2.85	0.44
1:A:123:ASP:O	1:A:138:TRP:HA	2.18	0.44
1:A:374:THR:HG22	4:A:967:HOH:O	2.18	0.44
1:B:162:HIS:HE1	1:B:205:PRO:O	2.00	0.44
1:A:251:ILE:HD11	1:A:301:SER:OG	2.17	0.44
1:A:425:VAL:C	1:A:427:SER:N	2.71	0.44
1:B:476:LEU:HD22	1:B:498:LEU:HD21	2.00	0.44
1:B:598:TYR:CD1	1:B:615:LYS:HA	2.53	0.44
1:A:717:HIS:HA	3:A:801:GOL:H32	2.00	0.44
1:B:475:THR:HG21	1:B:542:ILE:H	1.83	0.44
1:A:558:GLY:O	1:A:577:HIS:HB2	2.18	0.43
1:A:58:GLY:HA2	1:A:99:LYS:HZ3	1.83	0.43
1:B:84:THR:OG1	1:B:94:TRP:NE1	2.50	0.43
1:B:129:ASP:OD2	1:B:133:VAL:HB	2.18	0.43
1:B:246:SER:HB3	1:B:248:ASP:OD1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:111:THR:O	1:B:130:GLU:HG3	2.17	0.43
1:A:174:GLY:HA2	1:A:196:ASP:O	2.19	0.43
1:A:366:ILE:HD13	1:A:366:ILE:HA	1.79	0.43
1:B:10:PRO:HD3	1:B:706:CYS:SG	2.58	0.43
1:B:176:VAL:HB	1:B:191:LEU:HB2	2.00	0.43
1:B:416:TYR:O	1:B:418:VAL:N	2.52	0.43
1:A:200:SER:OG	1:A:288:THR:HA	2.19	0.43
1:A:47:GLU:HA	1:A:47:GLU:OE2	2.18	0.43
1:A:540:THR:HG21	1:A:580:LEU:HG	2.01	0.43
1:B:71:THR:HG22	1:B:83:ALA:HB3	2.01	0.43
1:A:163:HIS:HE1	1:A:165:ASP:HB2	1.84	0.42
1:A:545:LYS:NZ	1:A:547:ASP:OD2	2.37	0.42
1:B:504:GLU:HG2	1:B:505:GLY:N	2.34	0.42
1:B:612:HIS:CD2	1:B:631:PRO:HA	2.53	0.42
1:A:129:ASP:OD2	1:A:133:VAL:HB	2.19	0.42
1:A:428:LYS:HB2	1:A:447:ASP:HB2	2.01	0.42
1:B:454:TYR:CZ	1:B:462:PRO:HD3	2.54	0.42
1:B:665:GLN:NE2	1:B:720:PRO:HD3	2.34	0.42
1:B:539:HIS:ND1	1:B:553:LEU:HD13	2.34	0.42
1:B:593:GLN:HB2	1:B:596:LEU:HG	2.01	0.42
1:A:110:HIS:CE1	1:A:131:LYS:HG3	2.54	0.42
1:B:110:HIS:CD2	1:B:131:LYS:HB2	2.54	0.42
1:B:611:VAL:HB	1:B:633:ARG:HB2	2.01	0.42
1:A:481:PRO:HA	1:A:509:GLN:NE2	2.34	0.42
1:A:650:HIS:CD2	1:A:695:PRO:HA	2.55	0.42
1:B:408:ASN:ND2	1:B:411:SER:HB2	2.35	0.42
1:B:434:TRP:HH2	1:B:456:THR:HG21	1.85	0.42
1:B:8:LEU:HD23	1:B:8:LEU:HA	1.82	0.42
1:A:432:LEU:HA	1:A:432:LEU:HD23	1.81	0.42
1:B:405:ARG:HD3	1:B:405:ARG:N	2.34	0.42
1:B:354:SER:HB2	1:B:364:TRP:HE1	1.83	0.42
1:B:400:GLY:HA2	1:B:428:LYS:HB3	2.02	0.42
1:B:609:ILE:HB	1:B:635:LEU:HB2	2.02	0.42
1:A:88:ASP:OD1	1:A:90:THR:HG22	2.19	0.42
1:B:324:PHE:N	1:B:324:PHE:CD1	2.87	0.42
1:A:203:TRP:HA	1:A:242:LEU:HD12	2.02	0.41
1:A:255:SER:O	1:A:259:GLY:N	2.48	0.41
1:B:338:PHE:C	1:B:339:ASN:HD22	2.23	0.41
1:B:421:PHE:HB3	1:B:454:TYR:CZ	2.55	0.41
1:A:496:LEU:HA	1:A:496:LEU:HD23	1.79	0.41
1:B:310:GLN:NE2	1:B:369:LEU:HD21	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:507:VAL:HB	1:B:522:ILE:HG21	2.01	0.41
1:A:175:ILE:HD12	1:A:175:ILE:HA	1.82	0.41
1:A:16:CYS:HB2	1:A:19:CYS:SG	2.60	0.41
1:B:289:LEU:HD21	1:B:301:SER:HB3	1.97	0.41
1:A:164:GLU:H	1:A:164:GLU:HG3	1.59	0.41
1:A:349:LYS:HE2	1:A:365:ASP:OD1	2.21	0.41
1:B:463:GLN:OE1	1:B:515:LEU:HD12	2.20	0.41
1:B:539:HIS:CE1	1:B:553:LEU:HD13	2.56	0.41
1:B:206:LEU:HG	1:B:296:PRO:HG3	2.01	0.41
1:B:332:ASN:HA	1:B:364:TRP:HH2	1.85	0.41
1:A:242:LEU:HD12	1:A:242:LEU:HA	1.59	0.41
1:A:457:TYR:CD1	1:A:457:TYR:N	2.88	0.41
1:A:573:THR:O	1:A:627:THR:HA	2.20	0.41
1:B:164:GLU:H	1:B:164:GLU:CD	2.24	0.41
1:B:149:ILE:HG12	1:B:179:ILE:HG21	2.01	0.41
1:B:366:ILE:HA	1:B:366:ILE:HD13	1.79	0.41
1:B:430:THR:HG21	1:B:472:THR:CG2	2.51	0.41
1:B:684:ARG:H	1:B:684:ARG:HG3	1.73	0.41
1:B:538:VAL:HG22	1:B:556:GLU:HB3	2.02	0.41
1:B:589:GLU:HA	1:B:597:SER:HB3	2.03	0.41
1:B:61:VAL:HG12	4:B:811:HOH:O	2.20	0.41
1:B:177:VAL:HG12	1:B:190:ARG:HG3	2.03	0.41
1:A:392:ILE:O	1:A:392:ILE:HG23	2.20	0.41
1:A:387:PHE:CE1	1:A:395:LEU:HB2	2.56	0.41
1:A:580:LEU:O	1:A:604:SER:HB2	2.21	0.41
1:A:89:GLY:HA2	4:A:903:HOH:O	2.20	0.41
1:B:175:ILE:HA	1:B:175:ILE:HD13	1.81	0.41
1:B:587:HIS:CD2	1:B:647:TRP:CE3	3.04	0.41
1:A:110:HIS:HB3	1:A:131:LYS:HG2	2.03	0.41
1:B:197:GLU:HG3	1:B:247:LYS:CB	2.51	0.41
1:B:40:ARG:HB2	1:B:40:ARG:HE	1.67	0.41
1:B:563:PHE:HA	1:B:569:LYS:O	2.21	0.41
1:B:472:THR:O	1:B:503:GLY:N	2.47	0.40
1:A:194:HIS:CD2	1:A:252:ARG:HD2	2.56	0.40
1:A:63:HIS:CD2	1:A:86:SER:HB3	2.56	0.40
1:B:206:LEU:HA	1:B:207:PRO:HD3	1.94	0.40
1:B:5:PRO:O	1:B:6:ARG:HD3	2.21	0.40
1:A:481:PRO:HA	1:A:509:GLN:HE21	1.86	0.40
1:A:532:ILE:HG23	1:A:534:TYR:CD2	2.56	0.40
1:B:203:TRP:CD2	1:B:242:LEU:HD12	2.56	0.40
1:A:474:TYR:CE2	1:A:503:GLY:HA2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:11:SER:HA	1:B:377:SER:CB	2.52	0.40
1:B:284:ARG:HD3	1:B:357:MET:SD	2.61	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	660/740 (89%)	642 (97%)	16 (2%)	2 (0%)	44 66
1	B	650/740 (88%)	627 (96%)	20 (3%)	3 (0%)	32 53
All	All	1310/1480 (88%)	1269 (97%)	36 (3%)	5 (0%)	38 59

All (5) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	426	LYS
1	B	26	GLY
1	B	417	ASP
1	B	284	ARG
1	A	425	VAL

5.3.2 Protein sidechains [\(i\)](#)

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	563/642 (88%)	546 (97%)	17 (3%)	46	74
1	B	559/642 (87%)	536 (96%)	23 (4%)	35	61
All	All	1122/1284 (87%)	1082 (96%)	40 (4%)	40	67

All (40) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	51	THR
1	A	141	ARG
1	A	266	LYS
1	A	289	LEU
1	A	353	LEU
1	A	394	SER
1	A	510	HIS
1	A	516	SER
1	A	572	CYS
1	A	621	SER
1	A	639	THR
1	A	651	HIS
1	A	657	SER
1	A	660	TYR
1	A	671	ARG
1	A	688	VAL
1	A	690	TRP
1	B	59	GLU
1	B	155	PHE
1	B	173	ASP
1	B	182	SER
1	B	192	ARG
1	B	196	ASP
1	B	283	GLU
1	B	284	ARG
1	B	294	ASN
1	B	324	PHE
1	B	354	SER
1	B	372	SER
1	B	391	ASP
1	B	405	ARG
1	B	454	TYR
1	B	473	VAL
1	B	535	LYS
1	B	541	GLU

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Mol	Chain	Res	Type
1	B	564	GLN
1	B	650	HIS
1	B	667	TRP
1	B	676	CYS
1	B	690	TRP

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (30) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	13	ASN
1	A	63	HIS
1	A	78	GLN
1	A	116	HIS
1	A	189	HIS
1	A	298	GLN
1	A	310	GLN
1	A	315	GLN
1	A	344	GLN
1	A	415	ASN
1	A	509	GLN
1	A	510	HIS
1	A	576	GLN
1	A	612	HIS
1	A	638	HIS
1	A	651	HIS
1	A	677	ASN
1	A	681	HIS
1	B	13	ASN
1	B	142	ASN
1	B	145	GLN
1	B	298	GLN
1	B	310	GLN
1	B	408	ASN
1	B	510	HIS
1	B	575	GLN
1	B	577	HIS
1	B	590	HIS
1	B	650	HIS
1	B	717	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	C	6/10 (60%)	4 (66%)	1 (16%)

All (4) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
2	C	2	A
2	C	5	U
2	C	6	U
2	C	7	U

All (1) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
2	C	6	U

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 [\(i\)](#)

1 ligand is 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	GOL	A	801	-	5,5,5	1.07	0	5,5,5	0.88	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
3	GOL	A	801	-	-	0/4/4/4	0/0/0/0

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.

1 monomer is involved in 6 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	A	801	GOL	6	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 i

6.1 Protein, DNA and RNA chains i

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	670/740 (90%)	0.34	18 (2%) 55 58	25, 49, 86, 121	0
1	B	662/740 (89%)	0.42	25 (3%) 41 43	38, 61, 99, 119	0
2	C	7/10 (70%)	0.11	0 100 100	68, 76, 87, 92	0
All	All	1339/1490 (89%)	0.38	43 (3%) 48 51	25, 56, 93, 121	0

All (43) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	565	ILE	6.1
1	A	565	ILE	5.1
1	A	594	PRO	4.9
1	B	591	GLY	4.3
1	A	330	GLY	3.8
1	A	454	TYR	3.4
1	A	3	GLN	3.3
1	B	456	THR	3.2
1	B	392	ILE	3.0
1	B	296	PRO	3.0
1	A	484	PRO	2.9
1	A	302	SER	2.9
1	B	522	ILE	2.8
1	A	667	TRP	2.7
1	B	458	SER	2.7
1	B	313	LEU	2.7
1	B	590	HIS	2.7
1	B	206	LEU	2.6
1	B	693	LEU	2.6
1	B	402	GLY	2.5
1	B	548	GLY	2.5
1	A	25	GLY	2.5
1	A	412	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
1	A	347	ASP	2.5
1	B	424	GLY	2.5
1	B	517	GLY	2.5
1	B	163	HIS	2.3
1	A	593	GLN	2.3
1	B	26	GLY	2.3
1	A	520	PHE	2.3
1	B	241	TYR	2.3
1	A	531	SER	2.2
1	A	626	VAL	2.2
1	A	392	ILE	2.2
1	B	534	TYR	2.2
1	B	321	TYR	2.2
1	B	427	SER	2.2
1	B	519	ALA	2.1
1	B	639	THR	2.1
1	B	348	ASP	2.1
1	A	256	CYS	2.1
1	A	513	TRP	2.0
1	B	101	VAL	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 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. 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	RSCC	RSR	LLDF	B-factors(Å ²)	Q<0.9
3	GOL	A	801	6/6	0.86	0.43	10.24	21,32,37,41	0

6.5 Other polymers [\(i\)](#)

There are no such residues in this entry.