



# Full wwPDB X-ray Structure Validation Report ⓘ

Jun 13, 2024 – 07:53 AM EDT

PDB ID : 1MWA  
Title : 2C/H-2KBM3/DEV8 ALLOGENEIC COMPLEX  
Authors : Luz, J.G.; Huang, M.D.; Garcia, K.C.; Rudolph, M.G.; Teyton, L.; Wilson, I.A.  
Deposited on : 2002-09-27  
Resolution : 2.40 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](mailto: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>.

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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 : 2.36.2  
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) : 2.36.2

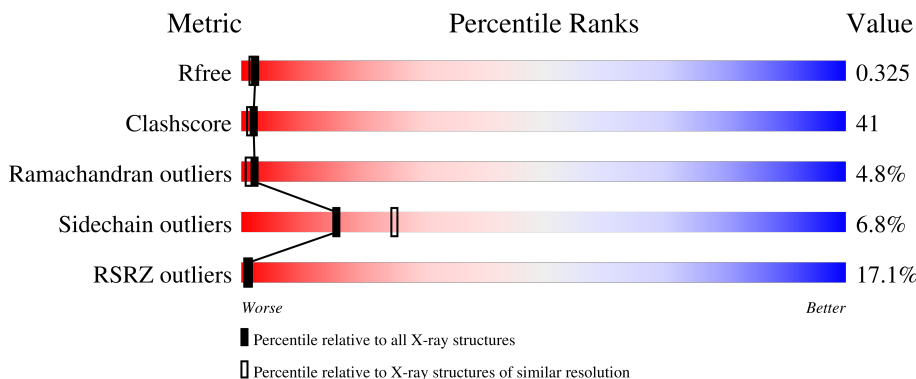
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.40 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.



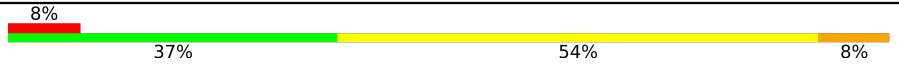

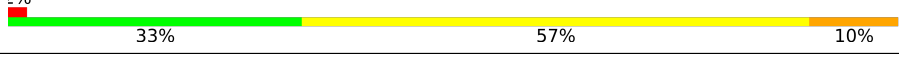
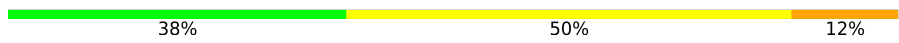



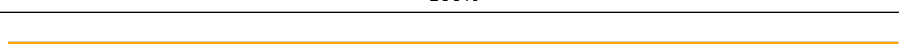
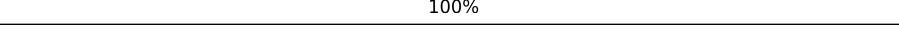

Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	3907 (2.40-2.40)
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

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  $\geq 3$ , 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	202	
1	C	202	
2	B	237	
2	D	237	
3	H	275	

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Mol	Chain	Length	Quality of chain
3	I	275	
4	L	99	
4	M	99	
5	P	8	
5	Q	8	
6	E	2	
6	K	2	
7	F	3	
7	G	3	
7	J	3	

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
10	ACY	P	1001	-	-	-	X
6	NAG	K	1	X	-	-	-
7	NAG	F	1	-	-	X	-
7	NAG	J	1	-	-	X	-
9	NAG	B	808	X	-	-	-

## 2 Entry composition i

There are 11 unique types of molecules in this entry. The entry contains 13973 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 2C T CELL RECEPTOR ALPHA CHAIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
1	A	202	1570	999	253	310	8	0	0	0
1	C	202	1570	999	253	310	8	0	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	127	ALA	GLN	SEE REMARK 999	GB 224220
A	165	ALA	LYS	SEE REMARK 999	GB 224220
C	127	ALA	GLN	SEE REMARK 999	GB 224220
C	165	ALA	LYS	SEE REMARK 999	GB 224220

- Molecule 2 is a protein called 2C T CELL RECEPTOR BETA CHAIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	B	237	1853	1160	331	355	7	0	0	0
2	D	237	1853	1160	331	355	7	0	0	0

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	97	GLY	GLN	SEE REMARK 999	GB 1791255
B	?	-	ARG	SEE REMARK 999	GB 1791255
B	?	-	ALA	SEE REMARK 999	GB 1791255
B	105	THR	GLU	SEE REMARK 999	GB 1791255
B	106	LEU	GLN	SEE REMARK 999	GB 1791255
B	107	TYR	PHE	SEE REMARK 999	GB 1791255
B	110	ALA	PRO	SEE REMARK 999	GB 1791255
B	115	SER	THR	SEE REMARK 999	GB 1791255

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Chain	Residue	Modelled	Actual	Comment	Reference
D	97	GLY	GLN	SEE REMARK 999	GB 1791255
D	?	-	ARG	SEE REMARK 999	GB 1791255
D	?	-	ALA	SEE REMARK 999	GB 1791255
D	105	THR	GLU	SEE REMARK 999	GB 1791255
D	106	LEU	GLN	SEE REMARK 999	GB 1791255
D	107	TYR	PHE	SEE REMARK 999	GB 1791255
D	110	ALA	PRO	SEE REMARK 999	GB 1791255
D	115	SER	THR	SEE REMARK 999	GB 1791255

- Molecule 3 is a protein called H-2KBM3 MHC CLASS I MOLECULE HEAVY CHAIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	H	274	Total	C	N	O	S	0	0	0
			2225	1404	392	420	9			
3	I	274	Total	C	N	O	S	0	0	0
			2224	1404	392	419	9			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	77	SER	ASP	conflict	UNP P01901
H	89	ALA	LYS	conflict	UNP P01901
H	275	ARG	GLU	conflict	UNP P01901
I	77	SER	ASP	conflict	UNP P01901
I	89	ALA	LYS	conflict	UNP P01901
I	275	ARG	GLU	conflict	UNP P01901

- Molecule 4 is a protein called MICROGLOBULIN MHC LIGHT CHAIN.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	L	99	Total	C	N	O	S	0	0	0
			821	524	138	152	7			
4	M	99	Total	C	N	O	S	0	0	0
			821	524	138	152	7			

- Molecule 5 is a protein called DEV8.

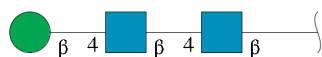
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
5	P	8	Total	C	N	O	0	0	0
			76	51	10	15			
5	Q	8	Total	C	N	O	0	0	0
			76	51	10	15			

- Molecule 6 is an oligosaccharide called 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
6	E	2	28	16	2	10	0	0	0
6	K	2	28	16	2	10	0	0	0

- Molecule 7 is an oligosaccharide called beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose.



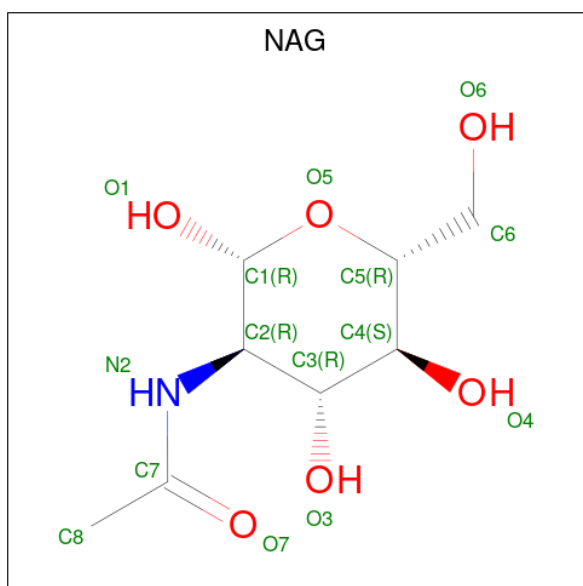
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
7	F	3	39	22	2	15	0	0	0
7	G	3	39	22	2	15	0	0	0
7	J	3	39	22	2	15	0	0	0

- Molecule 8 is GLYCEROL (three-letter code: GOL) (formula: C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>).



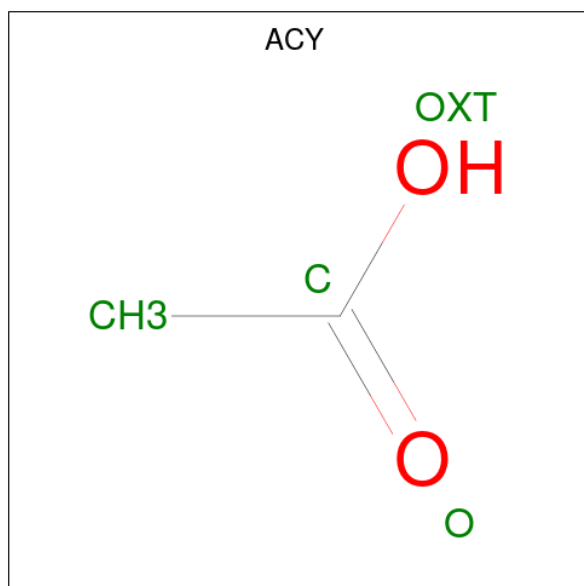
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
8	A	1	Total C O 6 3 3	0	0
8	I	1	Total C O 6 3 3	0	0
8	L	1	Total C O 6 3 3	0	0

- Molecule 9 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula:  $C_8H_{15}NO_6$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
			Total	C	N	O		
9	B	1	14	8	1	5	0	0

- Molecule 10 is ACETIC ACID (three-letter code: ACY) (formula: C<sub>2</sub>H<sub>4</sub>O<sub>2</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
			Total	C	O		
10	P	1	4	2	2	0	0

- Molecule 11 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
11	A	106	Total	O	0	0
			106	106		
11	C	41	Total	O	0	0
			41	41		
11	B	118	Total	O	0	0
			118	118		
11	D	10	Total	O	0	0
			10	10		
11	H	183	Total	O	0	0
			183	183		
11	I	107	Total	O	0	0
			107	107		
11	L	62	Total	O	0	0
			62	62		
11	M	44	Total	O	0	0
			44	44		

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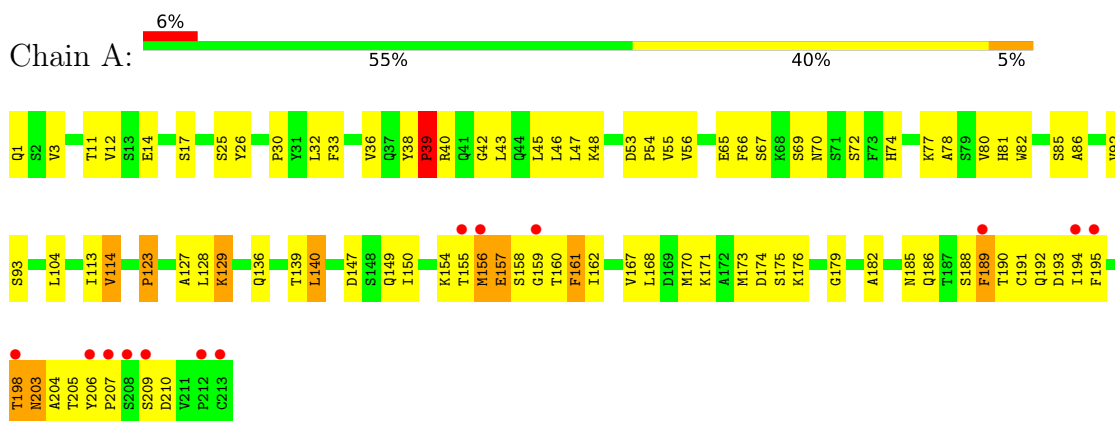
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<b>Mol</b>	<b>Chain</b>	<b>Residues</b>	<b>Atoms</b>	<b>ZeroOcc</b>	<b>AltConf</b>
11	P	2	Total O 2 2	0	0
11	Q	2	Total O 2 2	0	0

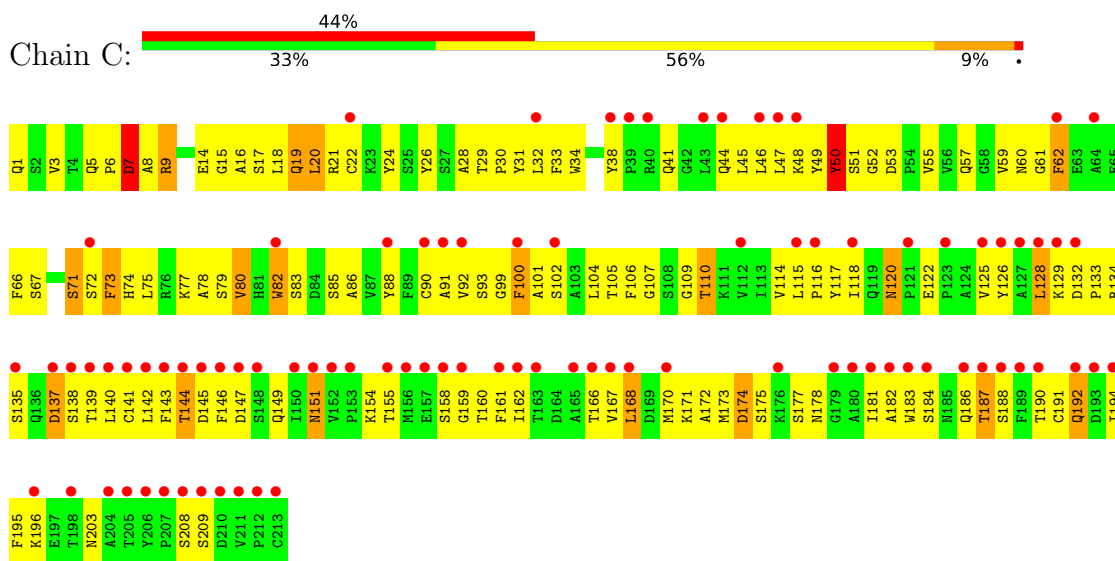
### 3 Residue-property plots [i](#)

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

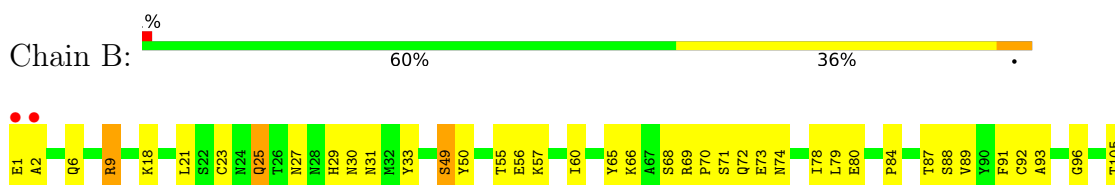
#### • Molecule 1: 2C T CELL RECEPTOR ALPHA CHAIN

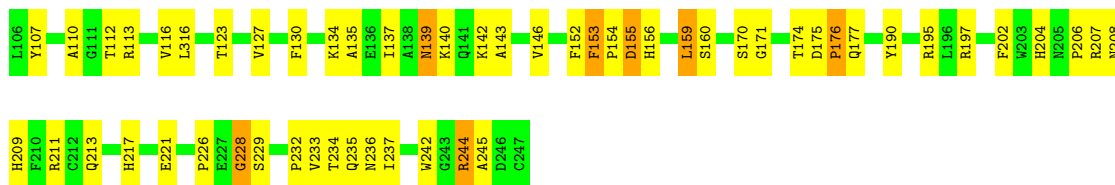


#### • Molecule 1: 2C T CELL RECEPTOR ALPHA CHAIN

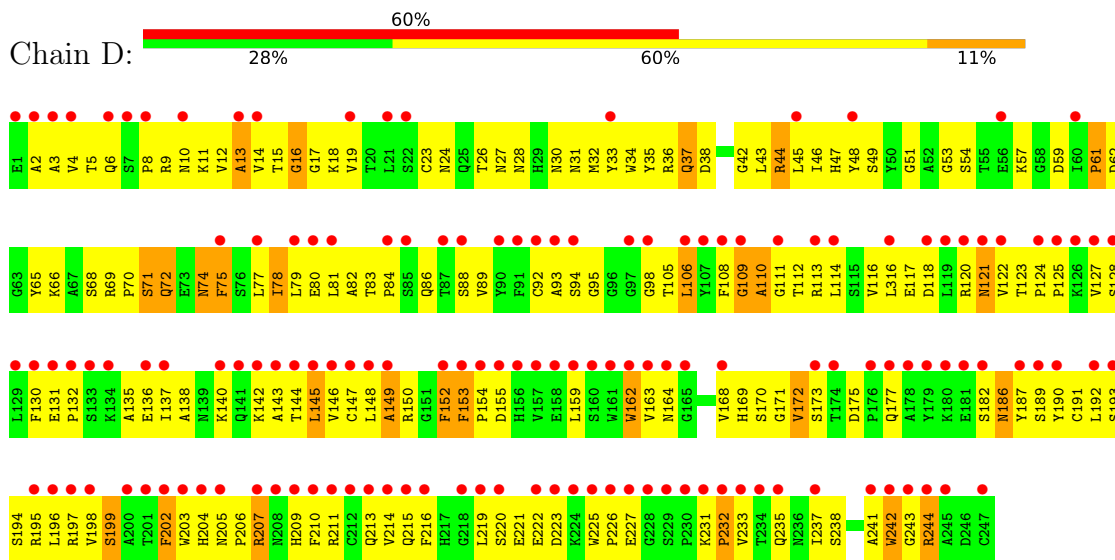


#### • Molecule 2: 2C T CELL RECEPTOR BETA CHAIN

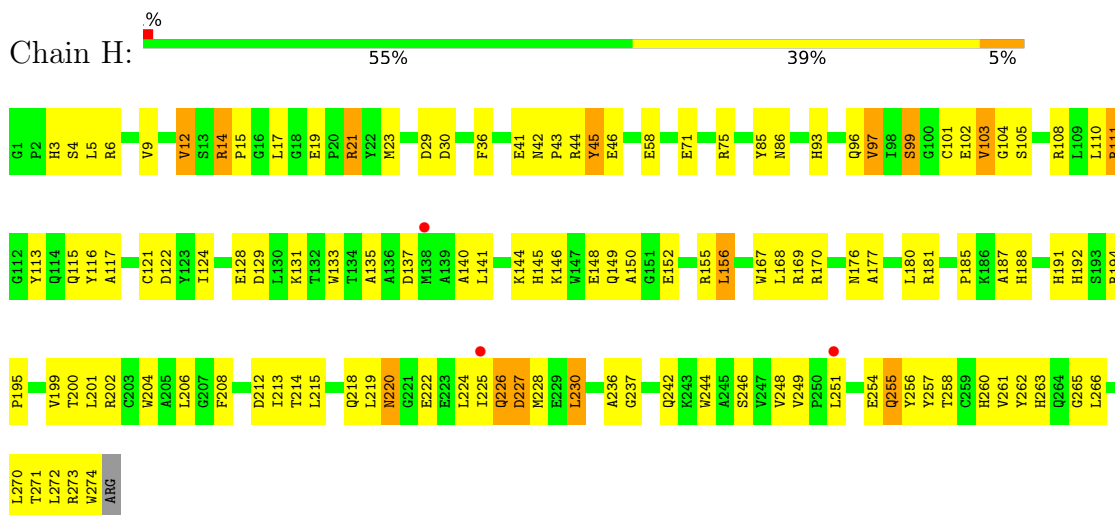




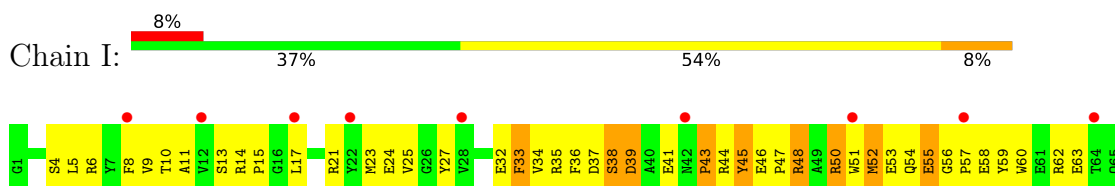
• Molecule 2: 2C T CELL RECEPTOR BETA CHAIN

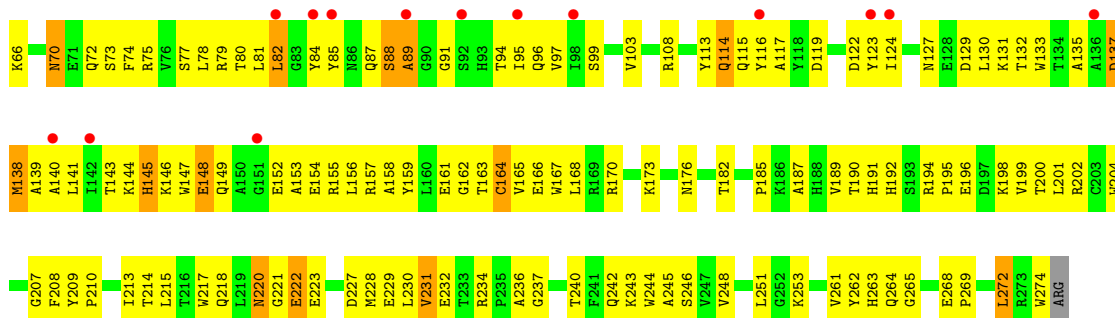


• Molecule 3: H-2KBM3 MHC CLASS I MOLECULE HEAVY CHAIN

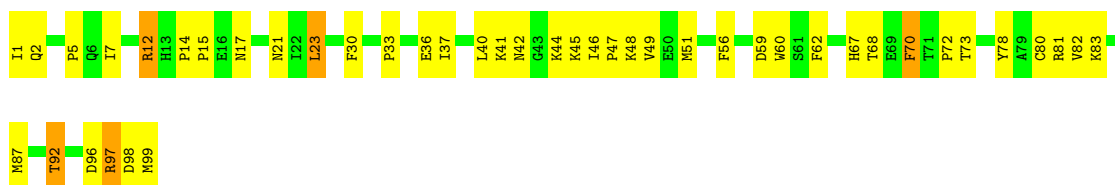


• Molecule 3: H-2KBM3 MHC CLASS I MOLECULE HEAVY CHAIN

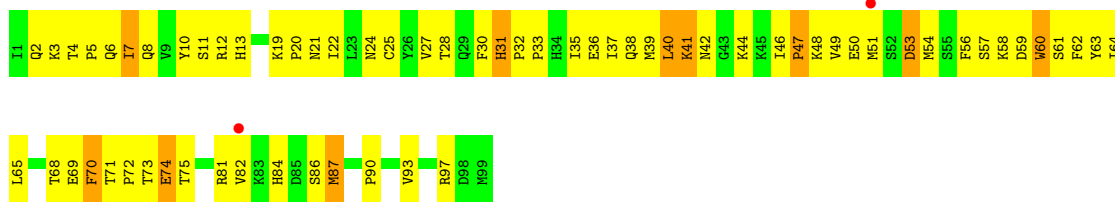




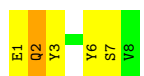
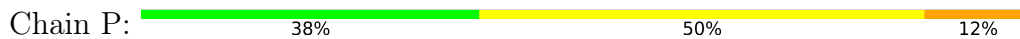
● Molecule 4: MICROGLOBULIN MHC LIGHT CHAIN



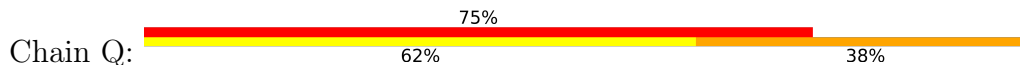
● Molecule 4: MICROGLOBULIN MHC LIGHT CHAIN



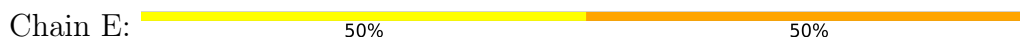
● Molecule 5: DEV8



● Molecule 5: DEV8



● Molecule 6: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



MAG1  
MAG2

- Molecule 6: 2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain K:  100%MAG1  
MAG2

- Molecule 7: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain F:  100%MAG1  
MAG2  
BMA3

- Molecule 7: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain G:  33% 67%MAG1  
MAG2  
BMA3

- Molecule 7: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain J:  100%MAG1  
MAG2  
BMA3

## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 2	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	297.90Å 95.94Å 84.73Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.39 – 2.40 49.65 – 2.40	Depositor EDS
% Data completeness (in resolution range)	100.0 (49.39-2.40) 99.6 (49.65-2.40)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	0.05	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	2.67 (at 2.39Å)	Xtrriage
Refinement program	REFMAC 5.0, CNS	Depositor
R, $R_{free}$	0.284 , 0.313 0.294 , 0.325	Depositor DCC
$R_{free}$ test set	4781 reflections (5.01%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	47.0	Xtrriage
Anisotropy	0.528	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.36 , 89.1	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.37$ , $\langle L^2 \rangle = 0.19$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.88	EDS
Total number of atoms	13973	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	53.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.77% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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 [i](#)

### 5.1 Standard geometry [i](#)

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

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	0.44	0/1611	0.76	0/2193
1	C	0.34	0/1611	0.66	0/2193
2	B	0.43	0/1904	0.75	2/2586 (0.1%)
2	D	0.27	0/1904	0.56	0/2586
3	H	0.41	0/2286	0.71	0/3106
3	I	0.38	1/2285 (0.0%)	0.71	1/3105 (0.0%)
4	L	0.44	0/847	0.77	0/1148
4	M	0.33	0/847	0.72	0/1148
5	P	0.50	0/78	0.77	0/102
5	Q	0.61	0/78	0.88	0/102
All	All	0.39	1/13451 (0.0%)	0.70	3/18269 (0.0%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand. A planarity outlier is detected by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
1	C	0	1
3	I	0	1
All	All	0	2

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	220	ASN	C-N	-5.16	1.23	1.33

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
2	B	228	GLY	N-CA-C	-7.15	95.22	113.10
3	I	220	ASN	CA-C-N	-6.59	103.03	116.20
2	B	9	ARG	NE-CZ-NH1	-5.36	117.62	120.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	C	50	TYR	Peptide
3	I	220	ASN	Mainchain

## 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	1570	0	1503	91	0
1	C	1570	0	1503	153	1
2	B	1853	0	1761	102	0
2	D	1853	0	1763	229	0
3	H	2225	0	2115	120	0
3	I	2224	0	2113	236	0
4	L	821	0	796	39	0
4	M	821	0	796	98	0
5	P	76	0	70	8	0
5	Q	76	0	70	28	0
6	E	28	0	25	1	0
6	K	28	0	26	5	0
7	F	39	0	34	15	0
7	G	39	0	34	4	0
7	J	39	0	33	13	0
8	A	6	0	8	0	0
8	I	6	0	8	0	0
8	L	6	0	8	0	0
9	B	14	0	13	0	0
10	P	4	0	3	0	0
11	A	106	0	0	8	0
11	B	118	0	0	10	1
11	C	41	0	0	14	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	D	10	0	0	1	0
11	H	183	0	0	9	0
11	I	107	0	0	16	0
11	L	62	0	0	3	0
11	M	44	0	0	19	0
11	P	2	0	0	0	0
11	Q	2	0	0	0	0
All	All	13973	0	12682	1051	1

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 41.

All (1051) 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:236:ASN:HD21	7:J:1:NAG:C1	1.18	1.50
7:J:2:NAG:H61	7:J:3:BMA:C2	1.52	1.34
7:J:2:NAG:C6	7:J:3:BMA:H2	1.32	1.32
1:A:185:ASN:HD21	7:F:1:NAG:C2	1.53	1.20
1:A:185:ASN:ND2	7:F:1:NAG:C2	2.07	1.18
2:B:236:ASN:HD21	7:J:1:NAG:C2	1.57	1.15
2:B:9:ARG:HH12	2:B:110:ALA:HB3	1.12	1.13
3:H:180:LEU:CD1	6:K:2:NAG:H81	1.79	1.12
1:A:185:ASN:HD21	7:F:1:NAG:H2	1.07	1.09
3:H:177:ALA:HB3	11:H:924:HOH:O	1.52	1.09
3:I:78:LEU:HG	3:I:95:ILE:HD11	1.23	1.09
3:H:180:LEU:HD13	6:K:2:NAG:H81	1.12	1.08
2:D:4:VAL:H	2:D:109:GLY:HA3	1.21	1.06
3:H:9:VAL:HB	3:H:97:VAL:HG13	1.36	1.05
3:I:66:LYS:HB2	11:I:967:HOH:O	1.56	1.03
2:B:130:PHE:HB2	2:B:146:VAL:HG13	1.37	1.02
3:I:189:VAL:HG23	3:I:274:TRP:HD1	1.20	1.01
3:H:14:ARG:HB2	3:H:17:LEU:HB2	1.41	1.00
4:L:45:LYS:HE2	4:L:81:ARG:HH22	1.24	0.99
3:I:50:ARG:O	3:I:53:GLU:HG2	1.63	0.98
3:I:218:GLN:HB2	3:I:222:GLU:O	1.66	0.95
2:D:16:GLY:HA2	2:D:81:LEU:HA	1.48	0.94
1:A:185:ASN:ND2	7:F:1:NAG:H2	1.75	0.94
3:H:111:ARG:HG3	3:H:111:ARG:HH11	1.30	0.93
2:D:121:ASN:ND2	2:D:153:PHE:CE2	2.38	0.92
3:I:57:PRO:HA	3:I:60:TRP:HB2	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:2:GLN:HA	4:M:31:HIS:O	1.69	0.91
1:C:31:TYR:HB2	1:C:93:SER:HB3	1.51	0.91
3:I:145:HIS:HB3	3:I:149:GLN:NE2	1.86	0.90
4:M:31:HIS:HD1	4:M:32:PRO:HA	1.37	0.90
2:D:6:GLN:HE21	2:D:111:GLY:HA2	1.37	0.89
7:F:2:NAG:O3	7:F:3:BMA:O5	1.89	0.89
2:B:9:ARG:HH12	2:B:110:ALA:CB	1.84	0.89
3:I:234:ARG:HH11	4:M:8:GLN:NE2	1.71	0.88
2:B:204:HIS:HA	2:B:244:ARG:O	1.74	0.87
4:M:73:THR:HG22	4:M:75:THR:H	1.37	0.87
1:A:185:ASN:CG	7:F:1:NAG:C1	2.44	0.86
1:C:170:MET:H	1:C:175:SER:HB3	1.39	0.86
4:L:45:LYS:HE2	4:L:81:ARG:NH2	1.89	0.86
1:C:6:PRO:HB2	1:C:21:ARG:HE	1.38	0.86
1:C:155:THR:HG21	1:C:161:PHE:HA	1.55	0.86
5:Q:2:GLN:NE2	5:Q:3:TYR:H	1.73	0.86
3:H:180:LEU:HD13	6:K:2:NAG:C8	2.01	0.85
1:C:1:GLN:HE21	1:C:105:THR:HG23	1.42	0.85
6:K:1:NAG:H62	6:K:2:NAG:H82	1.59	0.84
2:D:46:ILE:HG22	2:D:47:HIS:ND1	1.91	0.84
3:H:104:GLY:HA3	11:H:836:HOH:O	1.76	0.84
1:C:45:LEU:HD12	1:C:46:LEU:N	1.93	0.83
4:M:37:ILE:HG22	4:M:82:VAL:HG12	1.59	0.83
3:I:77:SER:O	3:I:81:LEU:HG	1.78	0.83
3:I:131:LYS:HA	11:I:949:HOH:O	1.79	0.83
2:B:236:ASN:ND2	7:J:1:NAG:C2	2.32	0.82
3:I:11:ALA:HB3	3:I:95:ILE:HD12	1.60	0.82
2:D:14:VAL:HB	2:D:17:GLY:H	1.44	0.82
2:B:9:ARG:NH1	2:B:110:ALA:HB3	1.93	0.82
1:C:18:LEU:HB3	1:C:77:LYS:HB3	1.61	0.82
3:I:253:LYS:HE3	11:I:971:HOH:O	1.78	0.82
1:C:9:ARG:O	1:C:9:ARG:HD3	1.80	0.81
2:D:164:ASN:ND2	2:D:209:HIS:HB3	1.95	0.81
5:Q:2:GLN:HE21	5:Q:3:TYR:H	1.26	0.81
3:I:194:ARG:HG3	3:I:195:PRO:HD2	1.60	0.81
1:A:194:ILE:HG23	1:A:195:PHE:HD1	1.44	0.80
2:D:68:SER:O	2:D:70:PRO:HD3	1.79	0.80
3:I:218:GLN:CB	3:I:222:GLU:O	2.29	0.80
3:I:48:ARG:HA	11:I:939:HOH:O	1.80	0.80
2:D:146:VAL:HG23	2:D:194:SER:O	1.81	0.80
3:I:185:PRO:HB3	3:I:208:PHE:HB3	1.64	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:63:TYR:HB3	11:M:281:HOH:O	1.83	0.78
4:M:7:ILE:HB	4:M:93:VAL:HG21	1.66	0.78
3:I:130:LEU:HB3	11:I:948:HOH:O	1.83	0.78
2:D:30:ASN:OD1	3:I:146:LYS:HE3	1.82	0.78
2:D:37:GLN:HB2	2:D:43:LEU:CD1	2.13	0.78
3:I:96:GLN:HG2	11:I:962:HOH:O	1.83	0.78
3:I:263:HIS:CD2	3:I:265:GLY:H	2.02	0.78
3:I:159:TYR:CE2	5:Q:3:TYR:HB2	2.18	0.78
2:D:9:ARG:HA	2:D:112:THR:HG22	1.65	0.78
3:I:182:THR:HG22	3:I:210:PRO:HD3	1.66	0.78
1:C:67:SER:OG	7:G:1:NAG:H82	1.84	0.77
1:A:53:ASP:OD2	1:A:55:VAL:HG22	1.84	0.77
2:D:4:VAL:H	2:D:109:GLY:CA	1.96	0.77
2:D:18:LYS:HA	2:D:80:GLU:HA	1.65	0.77
3:I:14:ARG:HH21	3:I:21:ARG:HD2	1.47	0.77
4:L:40:LEU:HD21	4:L:81:ARG:HH21	1.49	0.77
3:I:189:VAL:HG23	3:I:274:TRP:CD1	2.13	0.77
5:P:2:GLN:NE2	5:P:3:TYR:H	1.83	0.76
2:D:145:LEU:HD23	2:D:145:LEU:H	1.49	0.76
3:I:124:ILE:HB	3:I:140:ALA:HB1	1.67	0.76
1:C:8:ALA:HA	1:C:110:THR:HA	1.68	0.76
4:M:21:ASN:HB3	4:M:70:PHE:CE1	2.21	0.76
4:M:21:ASN:HD22	4:M:22:ILE:H	1.33	0.76
1:C:186:GLN:HG3	1:C:187:THR:H	1.51	0.76
1:A:185:ASN:ND2	7:F:1:NAG:O5	2.18	0.76
1:C:170:MET:HG2	1:C:171:LYS:H	1.50	0.75
1:A:72:SER:HB2	1:A:74:HIS:CE1	2.21	0.75
7:F:2:NAG:C3	7:F:3:BMA:O5	2.35	0.75
1:C:20:LEU:HD23	1:C:20:LEU:H	1.50	0.75
1:A:81:HIS:HB2	11:A:937:HOH:O	1.86	0.75
1:C:132:ASP:HB3	1:C:135:SER:HB3	1.69	0.75
2:D:198:VAL:HB	2:D:202:PHE:HB3	1.67	0.75
2:B:236:ASN:CG	7:J:1:NAG:C1	2.55	0.74
7:F:1:NAG:HO4	7:F:2:NAG:C1	1.98	0.74
2:D:122:VAL:O	2:D:232:PRO:HG2	1.88	0.74
2:B:27:ASN:HB3	2:B:29:HIS:CE1	2.22	0.74
2:D:6:GLN:NE2	2:D:111:GLY:HA2	2.02	0.74
4:L:67:HIS:HD2	11:L:938:HOH:O	1.69	0.74
2:D:37:GLN:HA	2:D:43:LEU:HA	1.70	0.73
2:D:45:LEU:HD21	2:D:48:TYR:HD2	1.52	0.73
3:H:42:ASN:OD1	3:H:44:ARG:HD3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:4:VAL:N	2:D:109:GLY:HA3	2.01	0.73
4:M:31:HIS:ND1	4:M:32:PRO:HA	2.02	0.73
2:D:18:LYS:HG3	2:D:80:GLU:HG3	1.71	0.73
3:H:219:LEU:O	3:H:220:ASN:ND2	2.22	0.73
3:I:145:HIS:HA	3:I:148:GLU:HB3	1.69	0.73
3:I:231:VAL:HG13	3:I:232:GLU:O	1.89	0.73
2:D:6:GLN:HE21	2:D:111:GLY:CA	2.02	0.72
1:C:53:ASP:OD1	1:C:55:VAL:HG22	1.89	0.72
3:H:249:VAL:CG2	3:H:254:GLU:HG3	2.20	0.72
2:D:32:MET:HG3	11:D:317:HOH:O	1.90	0.72
2:D:242:TRP:HB3	2:D:244:ARG:NH1	2.03	0.72
2:B:84:PRO:HA	2:B:116:VAL:HB	1.71	0.72
2:D:78:ILE:H	2:D:78:ILE:HD12	1.55	0.71
4:M:87:MET:HB2	11:M:375:HOH:O	1.91	0.71
1:C:20:LEU:HD11	1:C:75:LEU:HD23	1.73	0.71
1:C:26:TYR:HD2	1:C:28:ALA:H	1.36	0.71
3:H:237:GLY:HA3	11:L:931:HOH:O	1.91	0.71
1:C:80:VAL:HG23	1:C:80:VAL:O	1.91	0.71
2:D:83:THR:HG22	2:D:86:GLN:HG3	1.72	0.71
4:M:19:LYS:O	4:M:72:PRO:HD2	1.91	0.71
2:D:125:PRO:HG3	2:D:216:PHE:HB2	1.73	0.70
3:I:54:GLN:NE2	11:I:1000:HOH:O	2.24	0.70
3:I:147:TRP:HE1	5:Q:8:VAL:C	1.94	0.70
3:H:249:VAL:HG21	3:H:254:GLU:HG3	1.73	0.70
3:I:194:ARG:NH1	3:I:248:VAL:HG11	2.06	0.70
2:D:46:ILE:HG21	2:D:77:LEU:HD11	1.73	0.70
1:C:45:LEU:HD12	1:C:46:LEU:H	1.57	0.70
1:C:142:LEU:HD11	2:D:144:THR:HB	1.72	0.70
1:A:40:ARG:HD2	11:A:993:HOH:O	1.92	0.70
5:P:2:GLN:HA	5:P:2:GLN:HE21	1.57	0.70
6:K:1:NAG:C6	6:K:2:NAG:H82	2.22	0.70
1:C:166:THR:HB	2:D:173:SER:OG	1.91	0.69
1:C:115:LEU:HD22	1:C:115:LEU:H	1.57	0.69
3:H:6:ARG:NE	11:H:898:HOH:O	2.24	0.69
1:A:159:GLY:HA3	7:F:1:NAG:H82	1.74	0.69
2:D:152:PHE:O	2:D:189:SER:HA	1.92	0.69
5:Q:2:GLN:HE21	5:Q:3:TYR:N	1.90	0.69
3:H:14:ARG:HB2	3:H:17:LEU:CB	2.20	0.69
1:C:32:LEU:HD23	1:C:92:VAL:HG12	1.74	0.69
1:C:82:TRP:HA	1:C:114:VAL:HG13	1.73	0.69
2:D:61:PRO:HG2	2:D:62:ASP:H	1.57	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:111:ARG:HG3	3:H:111:ARG:NH1	2.07	0.69
3:I:215:LEU:HD23	3:I:261:VAL:HG13	1.74	0.69
1:A:77:LYS:HD3	1:A:80:VAL:HG12	1.76	0.69
1:C:3:VAL:HG21	1:C:90:CYS:O	1.92	0.69
1:C:82:TRP:HA	1:C:114:VAL:CG1	2.23	0.69
3:I:230:LEU:HD12	3:I:245:ALA:HB2	1.73	0.68
3:I:46:GLU:HG3	3:I:47:PRO:HD2	1.75	0.68
4:M:12:ARG:HE	4:M:13:HIS:CE1	2.11	0.68
4:M:73:THR:CG2	4:M:75:THR:HG22	2.22	0.68
1:C:47:LEU:HD12	1:C:47:LEU:O	1.94	0.68
2:B:153:PHE:O	2:B:154:PRO:C	2.30	0.68
2:B:2:ALA:HA	2:B:27:ASN:OD1	1.94	0.67
4:M:69:GLU:HB2	11:M:599:HOH:O	1.93	0.67
4:M:21:ASN:HB3	4:M:70:PHE:HE1	1.59	0.67
4:M:87:MET:CB	11:M:375:HOH:O	2.41	0.67
1:A:67:SER:HB2	6:E:1:NAG:H82	1.76	0.67
2:D:244:ARG:HD2	2:D:244:ARG:N	2.10	0.67
3:I:36:PHE:HE1	3:I:43:PRO:C	1.97	0.67
2:D:13:ALA:HB3	2:D:116:VAL:HG12	1.75	0.67
1:C:6:PRO:HB2	1:C:21:ARG:NE	2.07	0.67
2:D:79:LEU:HD12	2:D:86:GLN:OE1	1.93	0.67
3:H:137:ASP:HB2	11:H:858:HOH:O	1.95	0.67
3:I:129:ASP:OD2	3:I:131:LYS:HB2	1.95	0.67
7:G:1:NAG:O3	7:G:2:NAG:O5	2.13	0.67
3:I:159:TYR:HA	3:I:163:THR:HB	1.75	0.67
2:D:68:SER:OG	2:D:78:ILE:HD11	1.95	0.66
3:H:167:TRP:NE1	5:P:1:GLU:OE2	2.27	0.66
4:M:73:THR:HG21	4:M:75:THR:HG22	1.77	0.66
3:I:129:ASP:O	3:I:131:LYS:HG3	1.96	0.66
2:B:209:HIS:ND1	11:B:875:HOH:O	2.28	0.66
2:D:37:GLN:HA	2:D:42:GLY:O	1.95	0.66
3:H:41:GLU:HB3	11:H:864:HOH:O	1.95	0.66
3:H:41:GLU:O	3:H:43:PRO:HD3	1.95	0.66
3:I:116:TYR:HH	5:Q:5:PHE:HD2	1.44	0.66
3:H:219:LEU:HB3	3:H:224:LEU:HD21	1.76	0.66
3:I:13:SER:HB3	3:I:78:LEU:HD13	1.77	0.66
3:I:96:GLN:HG3	3:I:117:ALA:HB3	1.76	0.66
7:J:2:NAG:C6	7:J:3:BMA:C2	2.25	0.66
1:A:162:ILE:HB	11:A:941:HOH:O	1.95	0.66
1:A:150:ILE:HG13	11:A:940:HOH:O	1.96	0.66
3:I:4:SER:O	3:I:168:LEU:HD13	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:37:GLN:HB2	2:D:43:LEU:HD13	1.77	0.65
2:D:47:HIS:HE1	2:D:65:TYR:HB2	1.61	0.65
3:I:189:VAL:CG2	3:I:274:TRP:HD1	2.03	0.65
3:H:58:GLU:H	3:H:58:GLU:CD	2.00	0.65
1:C:92:VAL:HG22	11:C:822:HOH:O	1.97	0.65
2:D:159:LEU:HD12	2:D:159:LEU:H	1.60	0.65
4:M:59:ASP:O	4:M:60:TRP:CD1	2.50	0.65
1:C:24:TYR:HH	1:C:66:PHE:HE2	1.43	0.65
2:D:37:GLN:HB2	2:D:43:LEU:HD12	1.78	0.65
3:I:15:PRO:HG2	3:I:91:GLY:O	1.96	0.65
7:G:1:NAG:O3	7:G:2:NAG:H61	1.97	0.65
1:C:44:GLN:HG3	11:C:854:HOH:O	1.96	0.64
2:D:127:VAL:HG12	2:D:237:ILE:HG22	1.79	0.64
3:I:62:ARG:NH1	5:Q:1:GLU:OE1	2.30	0.64
4:M:36:GLU:HB3	11:M:657:HOH:O	1.97	0.64
2:D:3:ALA:HB1	2:D:109:GLY:HA2	1.79	0.64
3:I:123:TYR:CZ	3:I:140:ALA:HA	2.32	0.64
3:I:143:THR:HG23	5:Q:8:VAL:O	1.98	0.64
4:M:35:ILE:HG23	4:M:37:ILE:HG23	1.78	0.64
3:H:129:ASP:OD2	3:H:131:LYS:HB2	1.97	0.64
1:C:126:TYR:CE2	2:D:136:GLU:HB3	2.33	0.64
2:D:125:PRO:HD3	2:D:216:PHE:CD1	2.33	0.64
3:I:8:PHE:CD1	3:I:27:TYR:HD1	2.16	0.64
3:I:194:ARG:CG	3:I:195:PRO:HD2	2.28	0.64
5:P:2:GLN:HE21	5:P:3:TYR:H	1.43	0.64
4:M:51:MET:HE3	4:M:64:ILE:HD11	1.79	0.64
3:I:94:THR:HG22	3:I:95:ILE:N	2.13	0.63
1:A:171:LYS:HE3	2:B:170:SER:HB2	1.80	0.63
11:I:962:HOH:O	4:M:62:PHE:HZ	1.81	0.63
2:B:236:ASN:ND2	7:J:1:NAG:O5	2.29	0.63
3:I:14:ARG:NH2	3:I:21:ARG:HD2	2.14	0.63
2:D:131:GLU:HB2	2:D:132:PRO:HD2	1.81	0.63
5:Q:2:GLN:HE21	5:Q:2:GLN:HA	1.64	0.63
2:D:121:ASN:OD1	2:D:122:VAL:HG13	1.99	0.63
4:M:44:LYS:O	4:M:44:LYS:HG3	1.98	0.63
3:H:144:LYS:O	3:H:148:GLU:HG3	1.98	0.63
1:C:32:LEU:HD12	1:C:49:TYR:HD2	1.64	0.63
3:H:129:ASP:O	3:H:131:LYS:HG3	1.99	0.63
4:M:44:LYS:HE2	11:M:649:HOH:O	1.97	0.63
1:A:210:ASP:OD1	2:B:134:LYS:HE3	1.98	0.62
3:I:137:ASP:O	3:I:141:LEU:HD13	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:5:THR:HB	2:D:24:ASN:HB2	1.80	0.62
1:C:50:TYR:N	11:C:827:HOH:O	2.31	0.62
3:I:103:VAL:HG11	3:I:165:VAL:HG13	1.82	0.62
1:C:67:SER:O	1:C:71:SER:N	2.31	0.62
2:B:33:TYR:O	2:B:92:CYS:HA	1.99	0.62
3:I:52:MET:HA	3:I:52:MET:HE2	1.81	0.62
4:M:5:PRO:HB3	4:M:30:PHE:HB3	1.81	0.62
4:M:48:LYS:O	4:M:68:THR:HG22	2.00	0.62
1:C:208:SER:HA	2:D:135:ALA:HB2	1.81	0.62
2:D:32:MET:HA	2:D:93:ALA:O	1.99	0.62
1:A:55:VAL:O	1:A:55:VAL:HG23	1.97	0.62
2:D:49:SER:CB	2:D:69:ARG:HE	2.12	0.62
4:M:13:HIS:H	4:M:21:ASN:HD21	1.46	0.62
7:J:2:NAG:H61	7:J:3:BMA:H2	0.63	0.62
1:A:33:PHE:CE1	1:A:104:LEU:HD22	2.35	0.62
1:C:22:CYS:H	1:C:74:HIS:CD2	2.18	0.62
3:H:111:ARG:HH11	3:H:111:ARG:CG	2.06	0.62
3:I:162:GLY:O	3:I:166:GLU:HG3	2.00	0.62
1:A:36:VAL:HG22	1:A:46:LEU:HD11	1.82	0.62
1:C:77:LYS:HD2	1:C:78:ALA:H	1.65	0.62
3:H:219:LEU:CB	3:H:224:LEU:HD21	2.30	0.62
2:B:142:LYS:HD3	2:B:197:ARG:HD3	1.80	0.62
1:A:40:ARG:HH11	2:B:113:ARG:HH22	1.48	0.61
1:C:142:LEU:HD23	1:C:181:ILE:HG12	1.82	0.61
1:C:3:VAL:HG13	1:C:107:GLY:CA	2.30	0.61
2:B:18:LYS:HD2	2:B:80:GLU:HA	1.82	0.61
1:C:128:LEU:HD23	1:C:128:LEU:N	2.15	0.61
3:H:135:ALA:HB1	3:H:140:ALA:HB3	1.81	0.61
4:M:2:GLN:HG3	4:M:2:GLN:O	2.00	0.61
4:M:41:LYS:O	4:M:42:ASN:HB2	1.99	0.61
2:D:242:TRP:HB3	2:D:244:ARG:HH12	1.65	0.61
1:A:191:CYS:HA	1:A:194:ILE:HG22	1.83	0.61
2:B:18:LYS:HE3	2:B:80:GLU:HG2	1.82	0.61
3:I:96:GLN:CG	3:I:117:ALA:HB3	2.30	0.61
3:I:145:HIS:O	3:I:149:GLN:HB2	2.00	0.61
7:F:2:NAG:O3	7:F:3:BMA:C1	2.49	0.61
1:A:158:SER:O	7:F:1:NAG:H82	2.01	0.61
1:C:17:SER:HA	11:C:820:HOH:O	2.00	0.61
3:I:62:ARG:NH1	3:I:63:GLU:OE2	2.34	0.61
3:I:96:GLN:NE2	4:M:31:HIS:NE2	2.47	0.61
5:Q:7:SER:O	5:Q:8:VAL:C	2.37	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:124:PRO:HD3	2:D:232:PRO:HG3	1.82	0.61
3:I:152:GLU:C	3:I:154:GLU:H	2.04	0.61
2:B:27:ASN:HB3	2:B:29:HIS:ND1	2.15	0.61
3:H:191:HIS:HB2	3:H:274:TRP:NE1	2.15	0.61
2:D:13:ALA:HB2	2:D:19:VAL:HG21	1.83	0.61
2:D:74:ASN:O	2:D:75:PHE:HB2	2.01	0.61
3:I:144:LYS:HG2	3:I:148:GLU:OE2	2.01	0.61
1:C:32:LEU:HD12	1:C:49:TYR:CD2	2.36	0.60
1:C:66:PHE:CB	11:C:835:HOH:O	2.48	0.60
3:I:147:TRP:C	3:I:149:GLN:H	2.05	0.60
2:D:149:ALA:HB2	2:D:214:VAL:HG22	1.82	0.60
2:D:226:PRO:HG2	2:D:227:GLU:OE1	2.00	0.60
1:A:127:ALA:C	1:A:128:LEU:HD12	2.22	0.60
1:C:140:LEU:HB3	1:C:183:TRP:CB	2.31	0.60
2:D:6:GLN:HG3	2:D:111:GLY:N	2.17	0.60
1:C:140:LEU:HB3	1:C:183:TRP:HB3	1.83	0.60
2:B:57:LYS:HD2	11:B:896:HOH:O	2.01	0.60
4:M:21:ASN:ND2	4:M:22:ILE:H	2.00	0.60
2:B:236:ASN:ND2	7:J:1:NAG:H2	2.14	0.60
2:D:23:CYS:HB3	2:D:75:PHE:O	2.02	0.60
1:C:45:LEU:HD13	11:C:825:HOH:O	2.01	0.60
2:B:130:PHE:HB2	2:B:146:VAL:CG1	2.23	0.60
2:B:236:ASN:OD1	7:J:1:NAG:C1	2.50	0.60
2:B:232:PRO:HA	11:B:884:HOH:O	2.01	0.60
3:I:209:TYR:HA	3:I:210:PRO:O	2.02	0.59
3:I:215:LEU:CD2	3:I:261:VAL:HG13	2.32	0.59
2:D:27:ASN:O	2:D:28:ASN:HB2	2.01	0.59
2:D:32:MET:HB3	2:D:75:PHE:CD2	2.37	0.59
3:I:130:LEU:N	3:I:130:LEU:HD22	2.18	0.59
2:B:211:ARG:NH2	2:B:213:GLN:OE1	2.35	0.59
1:C:20:LEU:HD23	1:C:20:LEU:N	2.16	0.59
3:I:189:VAL:HG13	3:I:272:LEU:HD12	1.83	0.59
2:D:242:TRP:HD1	2:D:243:GLY:H	1.49	0.59
1:C:3:VAL:HG12	11:C:822:HOH:O	2.02	0.59
1:C:16:ALA:O	1:C:80:VAL:HG22	2.03	0.59
1:A:194:ILE:HG23	1:A:195:PHE:CD1	2.34	0.59
2:D:45:LEU:HD21	2:D:48:TYR:CD2	2.36	0.59
2:D:122:VAL:HA	2:D:153:PHE:HB3	1.85	0.59
3:I:35:ARG:HB3	3:I:48:ARG:CD	2.33	0.59
1:C:196:LYS:HB2	1:C:196:LYS:NZ	2.18	0.58
2:D:164:ASN:HD22	2:D:209:HIS:HB3	1.66	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:22:CYS:H	1:C:74:HIS:HD2	1.50	0.58
1:C:194:ILE:HG23	1:C:195:PHE:CD2	2.38	0.58
2:B:30:ASN:HD21	3:H:146:LYS:NZ	2.01	0.58
2:D:121:ASN:CG	2:D:153:PHE:CD2	2.76	0.58
2:D:171:GLY:HA3	2:D:196:LEU:HD12	1.86	0.58
3:I:96:GLN:HB2	3:I:117:ALA:HB3	1.86	0.58
3:I:227:ASP:OD1	3:I:227:ASP:O	2.21	0.58
1:C:191:CYS:O	1:C:192:GLN:HG3	2.03	0.58
2:D:150:ARG:HG2	2:D:190:TYR:O	2.03	0.58
3:H:263:HIS:CD2	3:H:265:GLY:H	2.21	0.58
4:M:25:CYS:O	4:M:65:LEU:HD12	2.04	0.58
2:D:34:TRP:O	2:D:46:ILE:N	2.34	0.58
3:I:194:ARG:NH1	3:I:248:VAL:HG21	2.18	0.58
2:D:4:VAL:HG13	2:D:24:ASN:O	2.04	0.58
3:H:169:ARG:HH21	3:I:269:PRO:HD2	1.67	0.58
2:D:78:ILE:HD12	2:D:78:ILE:N	2.18	0.58
3:H:185:PRO:HB3	3:H:208:PHE:HB3	1.86	0.58
1:C:66:PHE:HB2	11:C:835:HOH:O	2.03	0.58
2:B:96:GLY:HA3	3:H:150:ALA:HB1	1.84	0.58
2:D:81:LEU:HD23	2:D:81:LEU:O	2.03	0.58
1:C:44:GLN:OE1	1:C:44:GLN:HA	2.03	0.58
2:D:3:ALA:HB1	2:D:109:GLY:CA	2.34	0.58
5:Q:6:TYR:O	5:Q:8:VAL:N	2.37	0.58
1:A:40:ARG:HH11	2:B:113:ARG:NH2	2.01	0.57
2:B:232:PRO:CA	11:B:884:HOH:O	2.51	0.57
2:D:153:PHE:HD1	2:D:187:TYR:O	1.85	0.57
3:I:114:GLN:C	3:I:115:GLN:HG3	2.24	0.57
2:D:128:SER:HB2	2:D:148:LEU:HD22	1.85	0.57
3:I:79:ARG:HB2	11:I:960:HOH:O	2.03	0.57
4:M:54:MET:SD	4:M:62:PHE:HD2	2.27	0.57
3:H:108:ARG:NH2	3:I:214:THR:OG1	2.37	0.57
5:P:2:GLN:HE21	5:P:2:GLN:CA	2.18	0.57
1:C:82:TRP:CH2	1:C:167:VAL:HG21	2.39	0.57
3:I:23:MET:HA	3:I:36:PHE:O	2.04	0.57
3:I:147:TRP:HB3	3:I:152:GLU:HB3	1.85	0.57
3:I:263:HIS:HD2	3:I:265:GLY:H	1.47	0.57
1:A:48:LYS:HD3	2:B:105:THR:CG2	2.35	0.57
1:C:142:LEU:HD22	1:C:143:PHE:N	2.18	0.57
2:B:25:GLN:OE1	2:B:27:ASN:HB2	2.05	0.57
3:I:45:TYR:HB3	3:I:60:TRP:CE3	2.39	0.57
3:I:194:ARG:HH12	3:I:248:VAL:HG21	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:73:THR:HG22	4:M:75:THR:N	2.14	0.57
1:C:168:LEU:HD23	1:C:168:LEU:N	2.19	0.57
2:D:37:GLN:C	2:D:37:GLN:NE2	2.58	0.57
1:A:185:ASN:HD21	7:F:1:NAG:C7	2.16	0.57
3:I:97:VAL:HG11	5:Q:5:PHE:CE2	2.39	0.57
3:I:234:ARG:HH11	4:M:8:GLN:HE21	1.50	0.57
1:C:170:MET:N	1:C:175:SER:HB3	2.17	0.57
2:D:35:TYR:HA	2:D:44:ARG:O	2.04	0.57
2:D:82:ALA:HB1	2:D:116:VAL:HG11	1.87	0.57
2:D:94:SER:O	2:D:106:LEU:HB3	2.05	0.57
2:D:137:ILE:HG12	2:D:137:ILE:O	2.05	0.57
2:D:150:ARG:HG3	2:D:191:CYS:HA	1.87	0.57
2:D:150:ARG:CG	2:D:191:CYS:HA	2.35	0.57
4:M:2:GLN:HB3	4:M:32:PRO:HD3	1.87	0.56
1:A:206:TYR:HB3	2:B:135:ALA:HB1	1.86	0.56
3:I:135:ALA:HB1	3:I:137:ASP:OD2	2.05	0.56
1:A:156:MET:HB3	11:A:956:HOH:O	2.05	0.56
1:C:128:LEU:HD21	1:C:140:LEU:HG	1.86	0.56
3:I:62:ARG:HH12	5:Q:1:GLU:HB2	1.70	0.56
3:I:8:PHE:HB2	3:I:25:VAL:HG23	1.87	0.56
3:I:66:LYS:HG2	3:I:70:ASN:HD21	1.70	0.56
3:I:194:ARG:HH11	3:I:248:VAL:CG1	2.19	0.56
4:M:37:ILE:HG22	4:M:82:VAL:CG1	2.32	0.56
1:A:190:THR:HG23	1:A:191:CYS:N	2.21	0.56
1:A:190:THR:CG2	1:A:192:GLN:HG2	2.36	0.56
1:C:33:PHE:HB2	11:C:832:HOH:O	2.05	0.56
3:I:6:ARG:NH1	4:M:58:LYS:HD3	2.20	0.56
1:A:150:ILE:HG23	11:A:940:HOH:O	2.06	0.56
1:C:120:ASN:ND2	1:C:122:GLU:OE1	2.35	0.56
1:C:129:LYS:HD2	1:C:129:LYS:N	2.21	0.56
2:D:53:GLY:HA2	2:D:69:ARG:HB3	1.87	0.56
1:A:14:GLU:OE2	1:A:81:HIS:HB3	2.05	0.56
3:I:38:SER:HA	3:I:43:PRO:HB3	1.88	0.56
3:I:124:ILE:HB	3:I:140:ALA:CB	2.34	0.56
3:I:185:PRO:CB	3:I:208:PHE:HB3	2.36	0.56
4:L:40:LEU:HD23	4:L:45:LYS:HA	1.86	0.56
4:M:11:SER:C	11:M:272:HOH:O	2.44	0.56
1:C:91:ALA:HB3	11:C:832:HOH:O	2.06	0.56
2:B:18:LYS:CD	2:B:80:GLU:HA	2.36	0.55
2:D:142:LYS:HD3	2:D:197:ARG:CZ	2.36	0.55
3:I:24:GLU:O	3:I:35:ARG:HA	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:96:GLN:CB	3:I:117:ALA:HB3	2.36	0.55
3:I:167:TRP:CD1	5:Q:1:GLU:HG2	2.40	0.55
1:C:118:ILE:HD11	1:C:147:ASP:OD2	2.06	0.55
2:D:37:GLN:CA	2:D:43:LEU:HA	2.37	0.55
1:C:140:LEU:HB2	1:C:182:ALA:O	2.05	0.55
2:D:105:THR:O	2:D:105:THR:HG23	2.07	0.55
3:I:58:GLU:O	3:I:62:ARG:HB2	2.06	0.55
4:L:21:ASN:HB3	4:L:70:PHE:CE1	2.41	0.55
2:B:31:ASN:HD22	2:B:50:TYR:HA	1.70	0.55
2:D:19:VAL:O	2:D:79:LEU:HD23	2.06	0.55
3:H:225:ILE:HG23	3:H:226:GLN:NE2	2.22	0.55
4:M:49:VAL:HA	4:M:68:THR:CG2	2.36	0.55
2:D:9:ARG:HA	2:D:112:THR:CG2	2.36	0.55
3:I:138:MET:O	3:I:141:LEU:HB2	2.06	0.55
3:I:140:ALA:O	3:I:144:LYS:N	2.40	0.55
1:A:186:GLN:HB3	1:A:189:PHE:HD2	1.71	0.55
3:I:23:MET:HB3	3:I:37:ASP:OD1	2.06	0.55
4:M:33:PRO:HB3	4:M:62:PHE:CE2	2.41	0.55
4:M:2:GLN:CB	4:M:32:PRO:HD3	2.37	0.55
2:D:186:ASN:O	2:D:186:ASN:ND2	2.40	0.55
3:H:192:HIS:CE1	4:L:98:ASP:HB3	2.42	0.55
3:H:202:ARG:HG3	3:H:246:SER:HB3	1.89	0.55
3:I:25:VAL:HG11	3:I:35:ARG:CZ	2.37	0.55
4:L:49:VAL:HG22	4:L:68:THR:CG2	2.37	0.55
4:M:69:GLU:O	4:M:70:PHE:HB3	2.06	0.55
5:Q:2:GLN:HE21	5:Q:2:GLN:CA	2.20	0.55
2:B:153:PHE:O	2:B:155:ASP:N	2.40	0.55
2:D:225:TRP:CZ3	2:D:232:PRO:HD2	2.42	0.55
3:I:170:ARG:HG2	3:I:170:ARG:HH11	1.71	0.55
1:C:106:PHE:CD1	2:D:43:LEU:HD23	2.42	0.55
1:C:170:MET:HG2	1:C:171:LYS:N	2.21	0.55
2:D:316:LEU:HG	2:D:117:GLU:H	1.72	0.55
3:H:21:ARG:HE	3:H:23:MET:HE2	1.72	0.55
3:I:11:ALA:HA	3:I:21:ARG:O	2.07	0.55
3:I:135:ALA:HB1	3:I:137:ASP:CG	2.27	0.55
3:I:202:ARG:HG2	3:I:204:TRP:NE1	2.22	0.55
7:J:2:NAG:H61	7:J:3:BMA:C3	2.33	0.55
2:D:143:ALA:HB3	2:D:198:VAL:HG23	1.88	0.54
4:L:37:ILE:HD12	4:L:51:MET:HE3	1.89	0.54
2:D:86:GLN:NE2	2:D:114:LEU:HD21	2.23	0.54
3:I:230:LEU:CD1	3:I:245:ALA:HB2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:12:ARG:N	11:M:272:HOH:O	2.40	0.54
1:C:115:LEU:H	1:C:115:LEU:CD2	2.20	0.54
2:B:123:THR:O	2:B:152:PHE:HA	2.08	0.54
2:B:235:GLN:OE1	2:B:237:ILE:HD11	2.07	0.54
1:C:34:TRP:CH2	1:C:90:CYS:HB2	2.42	0.54
4:M:12:ARG:HE	4:M:13:HIS:HE1	1.54	0.54
1:A:158:SER:O	7:F:1:NAG:C8	2.56	0.54
1:A:17:SER:HA	1:A:78:ALA:O	2.06	0.54
3:I:35:ARG:HB3	3:I:48:ARG:HD3	1.89	0.54
2:D:35:TYR:CD2	2:D:43:LEU:HG	2.43	0.54
2:D:164:ASN:HD22	2:D:164:ASN:N	2.04	0.54
3:H:271:THR:O	3:H:271:THR:HG23	2.08	0.54
4:M:6:GLN:O	4:M:27:VAL:HA	2.07	0.54
4:L:97:ARG:HG2	4:L:97:ARG:HH11	1.72	0.54
2:D:33:TYR:O	2:D:92:CYS:HA	2.08	0.53
2:D:123:THR:O	2:D:152:PHE:HB2	2.07	0.53
3:H:220:ASN:ND2	3:H:222:GLU:OE1	2.41	0.53
3:I:127:ASN:N	3:I:127:ASN:HD22	2.05	0.53
3:I:141:LEU:HA	3:I:144:LYS:HB3	1.91	0.53
3:I:207:GLY:HA2	3:I:240:THR:HB	1.89	0.53
2:D:198:VAL:HG21	2:D:203:TRP:HB2	1.90	0.53
1:A:36:VAL:HG21	1:A:46:LEU:HD21	1.91	0.53
3:I:117:ALA:HB2	4:M:60:TRP:CE3	2.43	0.53
2:D:127:VAL:HG23	2:D:148:LEU:O	2.08	0.53
3:I:17:LEU:N	3:I:17:LEU:HD22	2.23	0.53
4:M:7:ILE:HD12	4:M:7:ILE:N	2.23	0.53
4:M:62:PHE:HD1	11:M:247:HOH:O	1.89	0.53
1:C:38:TYR:HB2	1:C:41:GLN:HB2	1.91	0.53
2:D:171:GLY:HA3	2:D:196:LEU:CD1	2.37	0.53
3:I:155:ARG:O	3:I:155:ARG:HG2	2.08	0.53
4:M:49:VAL:HA	4:M:68:THR:HG22	1.91	0.53
1:C:168:LEU:HD21	1:C:178:ASN:O	2.09	0.53
2:D:124:PRO:HG3	2:D:235:GLN:HE22	1.73	0.53
3:H:152:GLU:OE1	3:H:155:ARG:NH1	2.39	0.53
3:I:41:GLU:N	3:I:41:GLU:OE2	2.41	0.53
3:I:272:LEU:N	3:I:272:LEU:HD23	2.24	0.53
4:M:28:THR:HB	11:M:281:HOH:O	2.07	0.52
1:A:25:SER:O	1:A:26:TYR:HB2	2.09	0.52
1:C:115:LEU:HD22	1:C:115:LEU:N	2.24	0.52
2:D:145:LEU:HD23	2:D:145:LEU:N	2.20	0.52
3:I:25:VAL:CG1	3:I:35:ARG:CZ	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:185:PRO:HB3	3:I:208:PHE:CB	2.38	0.52
4:M:21:ASN:C	4:M:22:ILE:HD12	2.29	0.52
2:D:86:GLN:HE21	2:D:114:LEU:HD21	1.75	0.52
3:H:133:TRP:HH2	3:H:156:LEU:HD12	1.73	0.52
1:A:38:TYR:HB3	1:A:39:PRO:HD2	1.90	0.52
1:A:139:THR:O	1:A:140:LEU:HB2	2.09	0.52
3:H:135:ALA:HB1	3:H:140:ALA:CB	2.40	0.52
4:M:56:PHE:HB2	4:M:61:SER:O	2.09	0.52
1:C:151:ASN:O	1:C:151:ASN:ND2	2.42	0.52
2:D:150:ARG:HD2	2:D:150:ARG:C	2.30	0.52
3:I:127:ASN:HB2	3:I:129:ASP:OD1	2.10	0.52
3:I:232:GLU:HB2	11:I:950:HOH:O	2.10	0.52
2:D:121:ASN:OD1	2:D:122:VAL:N	2.42	0.52
3:I:237:GLY:HA3	11:M:248:HOH:O	2.09	0.52
11:B:812:HOH:O	3:H:146:LYS:HG3	2.09	0.52
2:D:83:THR:OG1	2:D:84:PRO:HD2	2.10	0.52
3:I:32:GLU:OE2	3:I:48:ARG:HG3	2.10	0.52
3:I:56:GLY:C	3:I:58:GLU:H	2.13	0.52
5:P:2:GLN:HE21	5:P:3:TYR:N	2.06	0.52
2:D:57:LYS:HD2	2:D:61:PRO:HB3	1.92	0.51
2:D:69:ARG:HH12	2:D:72:GLN:HA	1.74	0.51
3:H:145:HIS:O	3:H:149:GLN:HG3	2.11	0.51
1:A:36:VAL:CG2	1:A:46:LEU:HD21	2.41	0.51
1:C:18:LEU:HD12	1:C:19:GLN:H	1.75	0.51
2:B:143:ALA:O	2:B:197:ARG:HA	2.10	0.51
2:B:159:LEU:HD12	2:B:160:SER:N	2.26	0.51
2:D:51:GLY:O	2:D:69:ARG:CZ	2.59	0.51
3:I:94:THR:HG22	3:I:95:ILE:H	1.75	0.51
1:A:147:ASP:OD2	1:A:149:GLN:HB2	2.10	0.51
4:L:7:ILE:HD11	4:L:82:VAL:CG2	2.40	0.51
4:M:12:ARG:HH21	4:M:13:HIS:HE1	1.58	0.51
5:Q:2:GLN:HG3	5:Q:3:TYR:O	2.10	0.51
2:B:156:HIS:HB2	2:B:217:HIS:HB2	1.92	0.51
2:D:31:ASN:HB2	2:D:95:GLY:O	2.10	0.51
3:I:194:ARG:HH11	3:I:248:VAL:HG11	1.75	0.51
1:A:36:VAL:HG23	1:A:46:LEU:HG	1.92	0.51
1:C:50:TYR:HB3	3:I:158:ALA:HB1	1.92	0.51
1:A:42:GLY:HA2	2:B:91:PHE:CE2	2.46	0.51
2:B:69:ARG:HH12	2:B:72:GLN:C	2.14	0.51
3:H:111:ARG:NH1	3:H:111:ARG:CG	2.67	0.51
3:I:10:THR:HA	3:I:95:ILE:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:31:ASN:HA	2:B:49:SER:O	2.11	0.51
2:B:68:SER:O	2:B:70:PRO:HD3	2.11	0.51
2:B:204:HIS:O	2:B:206:PRO:HD3	2.10	0.51
4:L:40:LEU:HD21	4:L:81:ARG:NH2	2.20	0.51
3:I:155:ARG:HH22	5:Q:4:LYS:HB3	1.75	0.51
3:I:196:GLU:HB3	11:I:992:HOH:O	2.11	0.51
1:C:110:THR:HG23	1:C:110:THR:O	2.11	0.51
2:D:159:LEU:HD12	2:D:159:LEU:N	2.26	0.51
3:I:11:ALA:O	3:I:95:ILE:HG13	2.10	0.51
4:M:53:ASP:O	4:M:64:ILE:HD12	2.11	0.50
1:A:157:GLU:HG2	1:A:158:SER:O	2.11	0.50
1:A:168:LEU:O	1:A:176:LYS:HA	2.10	0.50
1:C:168:LEU:HG	1:C:177:SER:HB3	1.93	0.50
2:B:221:GLU:H	2:B:221:GLU:CD	2.15	0.50
2:D:77:LEU:HD23	2:D:79:LEU:HD22	1.92	0.50
3:H:218:GLN:NE2	3:H:260:HIS:CE1	2.79	0.50
1:A:140:LEU:HA	1:A:182:ALA:O	2.12	0.50
2:D:3:ALA:HA	2:D:108:PHE:O	2.12	0.50
3:I:242:GLN:HG2	11:I:912:HOH:O	2.11	0.50
1:A:173:MET:HG3	1:A:174:ASP:H	1.76	0.50
3:I:202:ARG:HD2	3:I:244:TRP:CD2	2.47	0.50
4:M:12:ARG:HB2	11:M:272:HOH:O	2.11	0.50
1:A:82:TRP:CZ2	1:A:167:VAL:HB	2.47	0.50
1:C:93:SER:HB2	1:C:104:LEU:HD23	1.93	0.50
2:B:153:PHE:HB3	2:B:154:PRO:CD	2.41	0.50
2:D:77:LEU:CD2	2:D:79:LEU:HD22	2.41	0.50
3:H:9:VAL:O	3:H:96:GLN:HA	2.11	0.50
3:I:170:ARG:O	3:I:173:LYS:HB3	2.11	0.50
1:A:54:PRO:O	1:A:65:GLU:HA	2.12	0.50
1:C:14:GLU:HG2	1:C:15:GLY:N	2.26	0.50
2:D:77:LEU:HD23	2:D:77:LEU:C	2.32	0.50
1:C:3:VAL:CG1	1:C:107:GLY:N	2.75	0.50
1:C:128:LEU:C	1:C:129:LYS:HD2	2.32	0.50
2:B:68:SER:C	2:B:70:PRO:HD3	2.32	0.50
2:D:210:PHE:HB2	2:D:241:ALA:HB3	1.93	0.50
3:I:96:GLN:HB3	4:M:56:PHE:CZ	2.47	0.50
2:D:6:GLN:HG2	2:D:110:ALA:HB3	1.93	0.50
2:D:152:PHE:N	2:D:152:PHE:CD1	2.80	0.50
3:H:202:ARG:HD3	3:H:244:TRP:CD2	2.46	0.50
3:H:248:VAL:O	3:H:248:VAL:HG23	2.12	0.50
4:M:12:ARG:CA	11:M:272:HOH:O	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:73:THR:HG22	4:M:74:GLU:N	2.27	0.50
2:D:140:LYS:CD	2:D:142:LYS:HB2	2.41	0.49
3:I:35:ARG:HB3	3:I:48:ARG:HE	1.76	0.49
3:I:148:GLU:O	3:I:149:GLN:HG3	2.12	0.49
4:M:2:GLN:CA	4:M:31:HIS:O	2.51	0.49
1:C:59:VAL:O	1:C:62:PHE:HD1	1.95	0.49
2:D:33:TYR:N	2:D:33:TYR:CD1	2.80	0.49
4:M:73:THR:CG2	4:M:74:GLU:N	2.75	0.49
1:C:60:ASN:HB2	1:C:62:PHE:HE1	1.77	0.49
2:D:125:PRO:HB2	2:D:214:VAL:HG11	1.92	0.49
4:L:49:VAL:HA	4:L:68:THR:HG22	1.93	0.49
4:M:28:THR:HG22	4:M:63:TYR:HB2	1.92	0.49
2:B:93:ALA:HA	2:B:107:TYR:O	2.12	0.49
2:D:169:HIS:O	2:D:170:SER:HB2	2.13	0.49
3:H:169:ARG:NH2	3:I:269:PRO:HD2	2.27	0.49
3:H:215:LEU:HD22	3:H:261:VAL:HG22	1.95	0.49
4:M:4:THR:HG23	4:M:86:SER:OG	2.12	0.49
1:A:156:MET:SD	1:A:156:MET:N	2.82	0.49
2:B:228:GLY:O	2:B:229:SER:C	2.50	0.49
2:D:11:LYS:HD2	2:D:12:VAL:H	1.77	0.49
3:I:56:GLY:O	3:I:59:TYR:HB3	2.12	0.49
3:I:116:TYR:OH	5:Q:5:PHE:HD2	1.95	0.49
3:I:9:VAL:HB	3:I:97:VAL:CG2	2.43	0.49
1:A:179:GLY:HA3	2:B:195:ARG:NH1	2.27	0.49
1:A:188:SER:O	1:A:189:PHE:HB2	2.12	0.49
1:C:160:THR:HG23	1:C:184:SER:HB3	1.94	0.49
2:B:78:ILE:HD12	2:B:78:ILE:N	2.28	0.49
2:D:49:SER:OG	2:D:69:ARG:NE	2.45	0.49
2:D:146:VAL:HG22	2:D:147:CYS:N	2.27	0.49
2:D:150:ARG:HB2	2:D:191:CYS:HA	1.94	0.49
2:D:175:ASP:HB2	2:D:192:LEU:HD12	1.94	0.49
1:C:82:TRP:CD1	1:C:116:PRO:HD3	2.48	0.49
2:D:14:VAL:HB	2:D:17:GLY:N	2.19	0.49
3:I:9:VAL:O	3:I:96:GLN:HA	2.12	0.49
3:I:36:PHE:HB2	3:I:45:TYR:CD1	2.48	0.49
4:L:48:LYS:O	4:L:48:LYS:HG3	2.12	0.49
2:B:152:PHE:CE1	2:B:190:TYR:HB2	2.48	0.49
1:A:92:VAL:HG22	1:A:93:SER:N	2.28	0.49
1:A:170:MET:HB2	1:A:175:SER:CB	2.43	0.49
2:B:66:LYS:NZ	2:B:80:GLU:OE2	2.35	0.49
3:I:35:ARG:HB3	3:I:48:ARG:NE	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:37:ASP:C	3:I:39:ASP:H	2.16	0.49
1:C:3:VAL:HG13	1:C:107:GLY:N	2.28	0.48
1:C:60:ASN:CB	1:C:62:PHE:HE1	2.26	0.48
2:D:199:SER:HB2	2:D:202:PHE:CD2	2.48	0.48
3:H:97:VAL:HA	3:H:115:GLN:O	2.13	0.48
1:C:142:LEU:HD22	1:C:143:PHE:H	1.78	0.48
2:B:87:THR:O	2:B:88:SER:HB2	2.12	0.48
3:H:6:ARG:NH1	3:H:113:TYR:OH	2.44	0.48
3:I:9:VAL:HG11	3:I:74:PHE:CE1	2.48	0.48
3:I:15:PRO:O	3:I:17:LEU:HD22	2.13	0.48
3:I:32:GLU:OE1	3:I:35:ARG:NH2	2.44	0.48
4:M:3:LYS:O	4:M:30:PHE:HA	2.14	0.48
4:M:20:PRO:HG3	4:M:71:THR:OG1	2.13	0.48
3:H:9:VAL:HB	3:H:97:VAL:CG1	2.24	0.48
3:I:191:HIS:HB2	3:I:274:TRP:CZ2	2.48	0.48
4:M:46:ILE:HG23	4:M:47:PRO:HD2	1.95	0.48
2:B:25:GLN:HG2	2:B:27:ASN:H	1.78	0.48
2:D:122:VAL:HG23	2:D:225:TRP:HZ3	1.77	0.48
2:D:143:ALA:HB3	2:D:198:VAL:CG2	2.42	0.48
3:H:113:TYR:N	3:H:113:TYR:CD2	2.80	0.48
3:I:217:TRP:HD1	3:I:228:MET:HE2	1.77	0.48
1:C:172:ALA:C	1:C:174:ASP:H	2.17	0.48
2:D:34:TRP:CD1	2:D:77:LEU:HB2	2.48	0.48
2:D:171:GLY:O	2:D:172:VAL:C	2.51	0.48
3:I:10:THR:HG22	3:I:23:MET:HG3	1.95	0.48
3:I:55:GLU:HB3	3:I:59:TYR:CD2	2.49	0.48
3:I:167:TRP:NE1	5:Q:1:GLU:OE2	2.46	0.48
1:C:55:VAL:HG23	1:C:55:VAL:O	2.14	0.48
2:B:316:LEU:N	2:B:316:LEU:HD12	2.29	0.48
2:D:173:SER:HB3	2:D:195:ARG:HG2	1.96	0.48
1:C:80:VAL:O	1:C:80:VAL:CG2	2.58	0.48
2:D:109:GLY:O	2:D:110:ALA:HB2	2.13	0.48
2:D:120:ARG:HB2	2:D:120:ARG:NH1	2.29	0.48
3:I:45:TYR:HB3	3:I:60:TRP:CZ3	2.49	0.48
3:I:152:GLU:C	3:I:154:GLU:N	2.66	0.48
3:H:194:ARG:HG2	3:H:195:PRO:HD2	1.95	0.48
3:H:249:VAL:HG23	3:H:254:GLU:HG3	1.95	0.48
3:I:207:GLY:HA2	3:I:240:THR:CB	2.44	0.48
2:D:79:LEU:HD23	2:D:79:LEU:N	2.29	0.48
2:D:216:PHE:HB3	2:D:235:GLN:O	2.13	0.48
3:H:199:VAL:HG21	3:H:251:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:14:ARG:NH2	3:I:21:ARG:HB2	2.29	0.47
1:C:14:GLU:HA	1:C:114:VAL:HG23	1.96	0.47
3:I:116:TYR:O	3:I:122:ASP:HA	2.14	0.47
2:D:18:LYS:HG3	2:D:80:GLU:OE2	2.14	0.47
2:D:31:ASN:O	2:D:94:SER:HA	2.14	0.47
2:D:142:LYS:HD3	2:D:197:ARG:NH1	2.29	0.47
3:I:51:TRP:CZ3	3:I:52:MET:HG2	2.49	0.47
3:I:132:THR:HG22	3:I:133:TRP:N	2.29	0.47
2:B:30:ASN:HA	2:B:72:GLN:HE22	1.79	0.47
3:H:218:GLN:NE2	3:H:260:HIS:ND1	2.62	0.47
3:I:130:LEU:N	3:I:130:LEU:CD2	2.77	0.47
4:L:17:ASN:HA	4:L:72:PRO:O	2.14	0.47
1:A:12:VAL:O	1:A:114:VAL:HA	2.14	0.47
2:D:46:ILE:HG22	2:D:47:HIS:CE1	2.49	0.47
5:Q:2:GLN:NE2	5:Q:2:GLN:HA	2.28	0.47
2:B:127:VAL:HG13	2:B:237:ILE:HG22	1.96	0.47
2:D:14:VAL:HG12	2:D:15:THR:H	1.78	0.47
3:I:155:ARG:HH22	5:Q:4:LYS:CB	2.27	0.47
1:A:45:LEU:HD11	1:A:47:LEU:O	2.15	0.47
1:A:128:LEU:HD12	1:A:128:LEU:N	2.30	0.47
1:C:91:ALA:HB2	1:C:106:PHE:HA	1.97	0.47
2:B:69:ARG:NH1	2:B:71:SER:O	2.48	0.47
2:D:8:PRO:C	2:D:10:ASN:H	2.17	0.47
2:D:125:PRO:HD3	2:D:216:PHE:CG	2.50	0.47
2:D:214:VAL:O	2:D:216:PHE:N	2.47	0.47
3:I:14:ARG:CZ	3:I:21:ARG:HB2	2.45	0.47
3:H:236:ALA:O	4:L:12:ARG:HD3	2.15	0.47
3:I:44:ARG:HG2	3:I:44:ARG:HH11	1.79	0.47
3:I:143:THR:HG21	5:Q:8:VAL:CB	2.45	0.47
3:I:214:THR:HB	3:I:262:TYR:HB2	1.96	0.47
2:D:6:GLN:OE1	2:D:6:GLN:HA	2.15	0.47
3:I:222:GLU:HG3	3:I:223:GLU:H	1.80	0.47
2:B:316:LEU:HD23	2:B:153:PHE:HE2	1.80	0.47
4:L:23:LEU:HD11	4:L:78:TYR:CB	2.45	0.47
4:L:23:LEU:HD11	4:L:78:TYR:HB3	1.97	0.47
4:M:30:PHE:O	4:M:31:HIS:HB2	2.14	0.47
1:C:50:TYR:HB3	3:I:158:ALA:CB	2.45	0.46
1:C:61:GLY:HA3	1:C:77:LYS:NZ	2.30	0.46
1:C:77:LYS:HE3	1:C:79:SER:H	1.81	0.46
1:C:93:SER:HB2	1:C:104:LEU:CD2	2.45	0.46
1:C:196:LYS:HB2	1:C:196:LYS:HZ1	1.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:H:266:LEU:HD13	3:H:270:LEU:HG	1.95	0.46
3:I:10:THR:CG2	3:I:23:MET:CG	2.93	0.46
3:I:79:ARG:HA	3:I:82:LEU:HD12	1.96	0.46
1:A:171:LYS:HG3	2:B:170:SER:HB2	1.97	0.46
1:C:1:GLN:OE1	1:C:100:PHE:N	2.47	0.46
3:I:143:THR:OG1	5:Q:8:VAL:HB	2.16	0.46
2:B:233:VAL:HG22	2:B:234:THR:N	2.30	0.46
3:H:191:HIS:NE2	3:H:199:VAL:HG11	2.30	0.46
3:I:74:PHE:CZ	3:I:97:VAL:HG21	2.50	0.46
3:I:143:THR:O	3:I:143:THR:HG22	2.14	0.46
3:I:147:TRP:HZ2	5:Q:8:VAL:HA	1.81	0.46
4:M:31:HIS:HD1	4:M:32:PRO:CA	2.19	0.46
1:A:129:LYS:HB2	1:A:129:LYS:NZ	2.30	0.46
1:C:5:GLN:HB3	1:C:7:ASP:OD2	2.15	0.46
1:C:137:ASP:CG	1:C:138:SER:H	2.18	0.46
2:D:15:THR:HG22	2:D:15:THR:O	2.14	0.46
2:D:136:GLU:HB2	2:D:140:LYS:NZ	2.31	0.46
3:H:206:LEU:HD23	3:H:242:GLN:HB3	1.97	0.46
3:I:88:SER:O	3:I:89:ALA:O	2.34	0.46
1:C:29:THR:HG21	11:C:853:HOH:O	2.15	0.46
2:B:1:GLU:HB3	11:B:842:HOH:O	2.16	0.46
3:H:180:LEU:O	3:H:181:ARG:C	2.53	0.46
3:I:27:TYR:HE2	3:I:32:GLU:HB2	1.80	0.46
3:I:152:GLU:O	3:I:154:GLU:N	2.49	0.46
4:L:7:ILE:HD11	4:L:82:VAL:HG21	1.98	0.46
1:C:20:LEU:HD13	1:C:88:TYR:CG	2.50	0.46
2:D:175:ASP:HB2	2:D:192:LEU:CD1	2.45	0.46
3:I:187:ALA:HA	3:I:204:TRP:O	2.16	0.46
4:M:24:ASN:OD1	4:M:65:LEU:HD21	2.16	0.46
1:A:43:LEU:N	1:A:43:LEU:HD12	2.31	0.46
1:A:195:PHE:O	1:A:198:THR:HG23	2.16	0.46
1:A:205:THR:HG22	1:A:205:THR:O	2.16	0.46
2:D:220:SER:C	2:D:222:GLU:H	2.19	0.46
3:H:191:HIS:HB2	3:H:274:TRP:CE2	2.51	0.46
3:I:94:THR:CG2	3:I:95:ILE:N	2.78	0.46
3:I:221:GLY:O	3:I:222:GLU:HB2	2.16	0.46
1:A:156:MET:HE3	11:A:956:HOH:O	2.16	0.46
1:C:38:TYR:HB2	1:C:41:GLN:CB	2.45	0.46
1:C:155:THR:CG2	1:C:161:PHE:HA	2.38	0.46
3:I:33:PHE:CA	3:I:48:ARG:HB2	2.45	0.46
2:B:236:ASN:HD21	7:J:1:NAG:H2	1.61	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:33:TYR:HB3	2:D:45:LEU:CD1	2.46	0.45
2:D:70:PRO:O	2:D:71:SER:CB	2.64	0.45
3:H:15:PRO:C	3:H:17:LEU:H	2.20	0.45
3:H:99:SER:HA	3:H:113:TYR:O	2.16	0.45
4:M:39:MET:O	4:M:46:ILE:HB	2.16	0.45
1:A:182:ALA:HB3	1:A:195:PHE:HE1	1.81	0.45
3:I:27:TYR:CE2	3:I:32:GLU:HB2	2.52	0.45
3:I:194:ARG:NH1	3:I:248:VAL:CG1	2.74	0.45
2:B:21:LEU:HD22	2:B:112:THR:HG21	1.97	0.45
2:B:30:ASN:HD21	3:H:146:LYS:HZ2	1.63	0.45
2:D:32:MET:SD	2:D:75:PHE:HB2	2.56	0.45
2:D:122:VAL:HA	2:D:154:PRO:HD3	1.98	0.45
2:B:23:CYS:O	2:B:74:ASN:HB2	2.17	0.45
1:C:24:TYR:OH	1:C:66:PHE:HE2	2.00	0.45
3:H:228:MET:HG2	3:H:246:SER:O	2.16	0.45
3:I:194:ARG:HB3	3:I:198:LYS:O	2.16	0.45
4:M:19:LYS:C	4:M:71:THR:HG23	2.37	0.45
1:C:34:TRP:CZ3	1:C:90:CYS:HB2	2.51	0.45
1:C:167:VAL:O	2:D:173:SER:HB2	2.17	0.45
1:A:70:ASN:OD1	1:A:70:ASN:N	2.49	0.45
1:A:85:SER:O	1:A:86:ALA:HB2	2.17	0.45
3:I:157:ARG:O	3:I:161:GLU:N	2.36	0.45
4:L:44:LYS:NZ	11:L:959:HOH:O	2.50	0.45
1:A:136:GLN:HA	1:A:136:GLN:NE2	2.32	0.45
2:D:45:LEU:O	2:D:59:ASP:HB3	2.17	0.45
2:D:148:LEU:HD12	2:D:148:LEU:N	2.32	0.45
3:H:220:ASN:ND2	3:H:220:ASN:O	2.46	0.45
3:I:14:ARG:HB3	3:I:17:LEU:HB2	1.98	0.45
4:M:40:LEU:N	4:M:40:LEU:CD1	2.80	0.45
1:A:168:LEU:HD11	2:B:171:GLY:O	2.17	0.45
1:C:1:GLN:HE21	1:C:105:THR:CG2	2.23	0.45
2:D:205:ASN:C	2:D:207:ARG:H	2.21	0.45
3:H:111:ARG:HD3	3:H:128:GLU:OE1	2.17	0.45
1:C:53:ASP:C	1:C:55:VAL:H	2.21	0.45
2:B:176:PRO:HG2	2:B:177:GLN:H	1.82	0.45
2:B:207:ARG:HA	2:B:207:ARG:HE	1.81	0.45
2:D:127:VAL:HG13	2:D:127:VAL:O	2.17	0.45
2:D:140:LYS:HG3	2:D:142:LYS:H	1.82	0.45
2:D:162:TRP:HE1	2:D:213:GLN:CB	2.29	0.45
3:I:114:GLN:O	3:I:115:GLN:HG3	2.17	0.45
3:H:14:ARG:O	3:H:17:LEU:HB2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:191:HIS:HB2	3:I:274:TRP:CE2	2.52	0.44
4:L:56:PHE:HA	4:L:62:PHE:HA	1.98	0.44
11:C:826:HOH:O	3:H:220:ASN:HA	2.16	0.44
2:D:13:ALA:CB	2:D:19:VAL:HG21	2.45	0.44
2:D:125:PRO:HG2	2:D:237:ILE:HB	1.99	0.44
3:H:12:VAL:HA	3:H:93:HIS:O	2.17	0.44
3:H:133:TRP:CH2	3:H:156:LEU:HD12	2.50	0.44
2:D:175:ASP:O	2:D:192:LEU:HD11	2.17	0.44
3:I:47:PRO:CB	3:I:52:MET:HB3	2.48	0.44
3:I:80:THR:HG22	3:I:84:TYR:CE2	2.53	0.44
3:I:108:ARG:HG3	3:I:108:ARG:HH11	1.82	0.44
3:I:166:GLU:HG2	11:I:999:HOH:O	2.17	0.44
1:A:190:THR:HG23	1:A:192:GLN:HG2	1.99	0.44
3:H:105:SER:O	3:I:264:GLN:HA	2.18	0.44
3:I:5:LEU:HB2	3:I:168:LEU:HB2	1.98	0.44
1:C:51:SER:OG	1:C:52:GLY:N	2.50	0.44
3:H:29:ASP:O	3:H:30:ASP:HB2	2.18	0.44
3:I:33:PHE:O	3:I:52:MET:HG3	2.18	0.44
4:M:38:GLN:HE21	4:M:81:ARG:HB3	1.83	0.44
4:M:51:MET:CE	4:M:64:ILE:CD1	2.95	0.44
1:C:170:MET:CE	1:C:172:ALA:HB2	2.46	0.44
2:B:202:PHE:O	2:B:208:ASN:ND2	2.39	0.44
2:D:79:LEU:HD12	2:D:86:GLN:CD	2.37	0.44
4:M:28:THR:CA	11:M:281:HOH:O	2.66	0.44
5:P:2:GLN:NE2	5:P:2:GLN:HA	2.30	0.44
4:M:12:ARG:H	4:M:21:ASN:ND2	2.15	0.44
4:L:21:ASN:N	4:L:70:PHE:O	2.47	0.44
4:M:44:LYS:O	4:M:44:LYS:CG	2.65	0.44
1:A:48:LYS:HD3	2:B:105:THR:HG23	2.00	0.44
1:A:160:THR:HG22	1:A:161:PHE:N	2.33	0.44
2:D:72:GLN:HE21	2:D:72:GLN:HB2	1.54	0.44
3:H:103:VAL:HG13	3:H:168:LEU:HD23	2.00	0.44
1:C:82:TRP:CZ2	1:C:167:VAL:HG21	2.52	0.43
1:C:114:VAL:HG13	1:C:114:VAL:O	2.17	0.43
4:L:82:VAL:HG23	4:L:87:MET:HE1	1.99	0.43
4:M:59:ASP:O	4:M:60:TRP:CG	2.71	0.43
1:A:40:ARG:O	1:A:40:ARG:CD	2.66	0.43
1:C:128:LEU:HD12	2:D:130:PHE:HB2	2.00	0.43
2:B:33:TYR:CD1	2:B:33:TYR:N	2.86	0.43
2:D:6:GLN:CG	2:D:110:ALA:HB3	2.48	0.43
2:D:18:LYS:CG	2:D:80:GLU:HG3	2.42	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:34:TRP:CH2	2:D:92:CYS:HB3	2.52	0.43
3:I:129:ASP:OD2	3:I:132:THR:N	2.51	0.43
4:L:1:ILE:HB	4:L:2:GLN:H	1.52	0.43
4:M:19:LYS:HD3	11:M:469:HOH:O	2.18	0.43
4:M:53:ASP:HB3	4:M:54:MET:H	1.59	0.43
4:M:84:HIS:ND1	4:M:86:SER:CB	2.81	0.43
7:G:1:NAG:HO3	7:G:2:NAG:H61	1.84	0.43
1:A:32:LEU:CD1	1:A:66:PHE:HD2	2.31	0.43
2:B:55:THR:O	2:B:56:GLU:HG3	2.18	0.43
2:B:127:VAL:HG13	2:B:237:ILE:CG2	2.48	0.43
2:B:153:PHE:CB	2:B:154:PRO:CD	2.96	0.43
2:D:82:ALA:CB	2:D:116:VAL:HG11	2.48	0.43
3:H:3:HIS:HB3	3:H:29:ASP:OD1	2.18	0.43
3:H:85:TYR:O	3:H:86:ASN:C	2.56	0.43
1:C:151:ASN:HD22	1:C:151:ASN:N	2.15	0.43
3:H:121:CYS:O	3:H:122:ASP:C	2.56	0.43
3:H:187:ALA:HA	3:H:204:TRP:O	2.18	0.43
4:M:51:MET:CE	4:M:64:ILE:HD11	2.47	0.43
1:C:24:TYR:OH	1:C:71:SER:HA	2.19	0.43
2:D:163:VAL:HB	2:D:168:VAL:HG13	2.01	0.43
2:D:164:ASN:HD22	2:D:164:ASN:H	1.66	0.43
2:D:205:ASN:ND2	2:D:207:ARG:O	2.51	0.43
3:H:213:ILE:HG12	3:H:214:THR:H	1.83	0.43
3:I:214:THR:HA	11:I:983:HOH:O	2.17	0.43
3:I:236:ALA:O	4:M:24:ASN:ND2	2.51	0.43
4:L:96:ASP:HB3	4:L:99:MET:HB2	2.01	0.43
2:D:121:ASN:O	2:D:153:PHE:CB	2.67	0.43
2:D:199:SER:HB2	2:D:202:PHE:HD2	1.83	0.43
3:H:255:GLN:OE1	3:H:273:ARG:HD3	2.19	0.43
3:I:13:SER:HB3	3:I:78:LEU:CD1	2.48	0.43
3:I:143:THR:HG21	5:Q:8:VAL:HB	1.99	0.43
4:L:5:PRO:HB3	4:L:30:PHE:HB3	2.01	0.43
2:B:174:THR:O	2:B:175:ASP:C	2.57	0.43
2:D:118:ASP:O	2:D:121:ASN:ND2	2.51	0.43
2:D:147:CYS:C	2:D:148:LEU:HD12	2.39	0.43
2:D:244:ARG:HD2	2:D:244:ARG:H	1.82	0.43
3:I:127:ASN:N	3:I:127:ASN:ND2	2.67	0.43
3:I:209:TYR:HA	3:I:210:PRO:C	2.39	0.43
3:I:213:ILE:HG12	3:I:214:THR:N	2.34	0.43
4:L:49:VAL:HG22	4:L:68:THR:HG21	2.00	0.43
7:F:2:NAG:H3	7:F:3:BMA:O5	2.15	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:117:TYR:CD1	1:C:118:ILE:N	2.87	0.43
2:D:194:SER:C	2:D:195:ARG:HE	2.22	0.43
2:D:221:GLU:N	2:D:221:GLU:CD	2.72	0.43
3:I:143:THR:CG2	5:Q:8:VAL:HB	2.49	0.43
4:L:14:PRO:HA	4:L:15:PRO:HD2	1.81	0.43
4:L:37:ILE:HB	4:L:51:MET:HE1	1.99	0.43
4:L:80:CYS:O	4:L:92:THR:HA	2.18	0.43
2:D:2:ALA:HA	2:D:26:THR:OG1	2.19	0.43
2:D:140:LYS:HD2	2:D:142:LYS:HB2	2.01	0.43
3:H:110:LEU:O	3:H:111:ARG:HG2	2.19	0.43
3:I:163:THR:O	3:I:166:GLU:HB2	2.18	0.43
3:I:190:THR:OG1	3:I:192:HIS:HE1	2.01	0.43
1:C:142:LEU:HD13	1:C:142:LEU:C	2.39	0.43
2:B:245:ALA:HA	11:B:880:HOH:O	2.19	0.43
2:D:66:LYS:O	2:D:78:ILE:N	2.52	0.43
2:D:219:LEU:HB2	2:D:231:LYS:HZ3	1.84	0.43
3:I:159:TYR:CZ	5:Q:3:TYR:HB2	2.53	0.43
4:M:97:ARG:HG3	11:M:121:HOH:O	2.18	0.43
1:C:72:SER:HB3	1:C:74:HIS:CD2	2.54	0.42
1:C:149:GLN:HA	1:C:149:GLN:NE2	2.33	0.42
2:D:94:SER:O	2:D:106:LEU:HD22	2.18	0.42
3:H:128:GLU:HG3	11:H:841:HOH:O	2.19	0.42
3:H:194:ARG:CG	3:H:195:PRO:HD2	2.49	0.42
3:H:272:LEU:HD12	3:H:272:LEU:N	2.34	0.42
1:C:85:SER:OG	1:C:114:VAL:HG12	2.19	0.42
1:C:170:MET:HB3	1:C:175:SER:OG	2.19	0.42
2:B:159:LEU:HD12	2:B:159:LEU:C	2.39	0.42
2:D:30:ASN:O	2:D:51:GLY:N	2.52	0.42
3:H:12:VAL:HG11	4:L:33:PRO:HG3	2.01	0.42
3:H:116:TYR:HB2	3:H:124:ILE:HG22	2.00	0.42
3:I:13:SER:C	3:I:15:PRO:HD3	2.39	0.42
3:I:199:VAL:HG23	3:I:200:THR:N	2.33	0.42
4:M:7:ILE:CB	4:M:93:VAL:HG21	2.43	0.42
2:D:61:PRO:CG	2:D:62:ASP:H	2.30	0.42
2:D:89:VAL:HG13	2:D:113:ARG:HB3	2.00	0.42
2:D:127:VAL:HG11	2:D:238:SER:CA	2.49	0.42
3:H:169:ARG:HE	3:I:268:GLU:HB3	1.84	0.42
3:I:25:VAL:HA	3:I:34:VAL:O	2.18	0.42
2:D:8:PRO:C	2:D:10:ASN:N	2.73	0.42
3:H:117:ALA:HB2	4:L:60:TRP:CE2	2.54	0.42
3:I:234:ARG:HD2	4:M:10:TYR:CE2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:234:ARG:HD3	4:M:8:GLN:HE22	1.83	0.42
4:M:12:ARG:CB	11:M:272:HOH:O	2.68	0.42
1:C:59:VAL:O	1:C:62:PHE:CD1	2.72	0.42
1:C:167:VAL:C	1:C:168:LEU:HD23	2.39	0.42
2:B:65:TYR:CE2	2:B:79:LEU:HD21	2.54	0.42
2:B:137:ILE:HG21	2:B:204:HIS:NE2	2.35	0.42
2:D:18:LYS:HG3	2:D:80:GLU:CG	2.47	0.42
2:D:33:TYR:HB3	2:D:45:LEU:HD11	2.00	0.42
2:D:121:ASN:OD1	2:D:153:PHE:CD2	2.72	0.42
3:H:21:ARG:NE	3:H:23:MET:CE	2.82	0.42
3:H:21:ARG:NE	3:H:23:MET:HE2	2.35	0.42
3:H:128:GLU:CD	11:H:913:HOH:O	2.58	0.42
3:H:271:THR:C	3:H:272:LEU:HD12	2.39	0.42
1:C:114:VAL:O	1:C:114:VAL:HG22	2.19	0.42
2:D:31:ASN:HB3	2:D:33:TYR:OH	2.20	0.42
2:D:88:SER:OG	2:D:89:VAL:N	2.51	0.42
2:D:193:SER:OG	2:D:195:ARG:NH2	2.52	0.42
3:H:21:ARG:HE	3:H:23:MET:CE	2.31	0.42
3:I:263:HIS:HD2	3:I:265:GLY:N	2.15	0.42
4:M:12:ARG:H	4:M:21:ASN:HD21	1.65	0.42
2:B:69:ARG:NH1	2:B:72:GLN:O	2.41	0.42
2:B:142:LYS:CG	11:B:906:HOH:O	2.67	0.42
3:H:6:ARG:HG2	3:H:113:TYR:OH	2.20	0.42
3:H:170:ARG:NH1	11:H:832:HOH:O	2.53	0.42
3:I:80:THR:HG22	3:I:84:TYR:CZ	2.55	0.42
3:I:81:LEU:O	3:I:84:TYR:HB2	2.20	0.42
1:A:203:ASN:HB3	1:A:204:ALA:H	1.59	0.42
1:C:48:LYS:C	11:C:827:HOH:O	2.58	0.42
1:C:133:PRO:HB2	1:C:134:ARG:NH1	2.35	0.42
1:C:155:THR:HG21	1:C:160:THR:O	2.19	0.42
1:C:191:CYS:C	1:C:192:GLN:HG3	2.41	0.42
2:D:235:GLN:OE1	2:D:237:ILE:HD11	2.19	0.42
3:H:192:HIS:HB2	3:H:200:THR:HB	2.02	0.42
3:H:215:LEU:CD2	3:H:261:VAL:HG13	2.50	0.42
4:L:36:GLU:HB3	4:L:83:LYS:HB3	2.02	0.42
1:A:55:VAL:O	1:A:55:VAL:CG2	2.67	0.42
1:C:16:ALA:HB1	11:C:829:HOH:O	2.20	0.42
1:C:144:THR:HA	1:C:178:ASN:O	2.19	0.42
2:D:6:GLN:NE2	2:D:112:THR:HG23	2.35	0.42
2:D:121:ASN:O	2:D:153:PHE:HB2	2.20	0.42
2:D:182:SER:HB2	2:D:189:SER:HB2	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:219:LEU:HD13	2:D:223:ASP:OD1	2.20	0.42
3:I:4:SER:C	11:I:954:HOH:O	2.57	0.42
4:L:7:ILE:HD11	4:L:82:VAL:HG22	2.02	0.42
1:A:11:THR:HA	1:A:113:ILE:O	2.20	0.41
1:C:106:PHE:CE1	2:D:43:LEU:HD23	2.55	0.41
2:B:2:ALA:HB2	11:H:871:HOH:O	2.19	0.41
3:H:230:LEU:HD23	3:H:230:LEU:O	2.19	0.41
3:I:48:ARG:HA	3:I:48:ARG:HH11	1.85	0.41
3:I:230:LEU:HG	3:I:243:LYS:HE3	2.02	0.41
1:A:123:PRO:HG2	1:A:203:ASN:HB2	2.02	0.41
1:A:154:LYS:C	1:A:162:ILE:HD12	2.40	0.41
1:A:191:CYS:HA	1:A:194:ILE:CG2	2.48	0.41
1:C:1:GLN:HG3	1:C:105:THR:HG21	2.02	0.41
1:C:7:ASP:CG	1:C:110:THR:HB	2.40	0.41
2:B:27:ASN:CB	2:B:29:HIS:ND1	2.81	0.41
2:D:152:PHE:HD2	2:D:154:PRO:HD2	1.84	0.41
3:I:25:VAL:HG12	3:I:35:ARG:NE	2.35	0.41
3:I:234:ARG:HD3	4:M:8:GLN:NE2	2.34	0.41
4:M:21:ASN:N	4:M:70:PHE:O	2.48	0.41
1:A:207:PRO:C	1:A:209:SER:H	2.23	0.41
1:C:161:PHE:O	1:C:162:ILE:HD13	2.21	0.41
3:H:36:PHE:HB2	3:H:45:TYR:CD1	2.55	0.41
3:I:25:VAL:HG23	3:I:25:VAL:O	2.21	0.41
3:I:164:CYS:O	3:I:165:VAL:C	2.58	0.41
1:A:188:SER:O	1:A:189:PHE:CB	2.68	0.41
1:C:8:ALA:O	1:C:9:ARG:HB3	2.20	0.41
2:B:73:GLU:H	2:B:73:GLU:CD	2.24	0.41
2:D:14:VAL:C	2:D:16:GLY:H	2.23	0.41
2:D:162:TRP:O	2:D:211:ARG:HB2	2.20	0.41
3:I:190:THR:OG1	3:I:202:ARG:HB3	2.21	0.41
1:A:40:ARG:HD2	1:A:40:ARG:O	2.20	0.41
1:A:191:CYS:O	1:A:194:ILE:HG22	2.21	0.41
1:C:146:PHE:CD1	1:C:146:PHE:C	2.93	0.41
2:D:74:ASN:HD22	2:D:74:ASN:HA	1.58	0.41
2:D:162:TRP:HB2	2:D:211:ARG:HB2	2.02	0.41
3:H:214:THR:HB	3:H:262:TYR:HB2	2.01	0.41
3:H:218:GLN:HB2	3:H:258:THR:OG1	2.20	0.41
3:I:33:PHE:HA	3:I:48:ARG:HB2	2.03	0.41
1:C:47:LEU:HD12	1:C:47:LEU:C	2.41	0.41
2:D:120:ARG:HB2	2:D:120:ARG:CZ	2.51	0.41
2:D:199:SER:O	2:D:202:PHE:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:8:PHE:CD1	3:I:27:TYR:CD1	3.04	0.41
3:I:45:TYR:HB3	3:I:60:TRP:HE3	1.85	0.41
4:M:84:HIS:ND1	4:M:86:SER:HB3	2.35	0.41
1:C:77:LYS:HD2	1:C:78:ALA:N	2.33	0.41
1:C:144:THR:O	1:C:145:ASP:HB2	2.21	0.41
2:D:154:PRO:HG2	2:D:216:PHE:CZ	2.56	0.41
2:D:198:VAL:HG21	2:D:203:TRP:CB	2.50	0.41
3:H:4:SER:HA	3:H:101:CYS:O	2.21	0.41
4:L:37:ILE:HD12	4:L:51:MET:CE	2.51	0.41
4:M:40:LEU:N	4:M:40:LEU:HD12	2.35	0.41
2:B:152:PHE:CE1	2:B:190:TYR:CB	3.04	0.41
2:D:120:ARG:NH1	2:D:120:ARG:CB	2.84	0.41
3:I:96:GLN:OE1	4:M:56:PHE:CD1	2.74	0.41
4:L:46:ILE:HG23	4:L:47:PRO:HD2	2.03	0.41
4:M:28:THR:CB	11:M:281:HOH:O	2.65	0.41
1:A:186:GLN:HG2	11:A:976:HOH:O	2.21	0.41
2:D:137:ILE:HG13	2:D:204:HIS:NE2	2.36	0.41
2:D:153:PHE:H	2:D:154:PRO:CD	2.34	0.41
2:D:177:GLN:OE1	2:D:177:GLN:HA	2.20	0.41
3:H:176:ASN:OD1	3:H:177:ALA:N	2.54	0.41
3:H:249:VAL:HG12	3:H:257:TYR:CE2	2.55	0.41
3:H:271:THR:O	3:H:271:THR:CG2	2.69	0.41
3:I:72:GLN:O	3:I:73:SER:C	2.57	0.41
3:I:78:LEU:O	3:I:82:LEU:HG	2.21	0.41
3:I:124:ILE:HD12	3:I:135:ALA:HB2	2.01	0.41
3:I:194:ARG:NH1	3:I:248:VAL:CG2	2.83	0.41
3:I:222:GLU:HG3	3:I:223:GLU:N	2.35	0.41
3:I:262:TYR:CD1	3:I:269:PRO:HB3	2.56	0.41
4:M:8:GLN:HG2	11:M:426:HOH:O	2.19	0.41
4:M:37:ILE:HD11	4:M:51:MET:HE1	2.03	0.41
1:C:14:GLU:HA	1:C:114:VAL:CG2	2.50	0.41
1:C:57:GLN:HE22	3:H:256:TYR:HD1	1.65	0.41
1:C:196:LYS:NZ	1:C:196:LYS:CB	2.84	0.41
2:B:6:GLN:OE1	2:B:91:PHE:HA	2.20	0.41
2:B:88:SER:OG	2:B:89:VAL:N	2.54	0.41
2:B:211:ARG:NH1	11:B:869:HOH:O	2.43	0.41
2:D:6:GLN:HE21	2:D:111:GLY:C	2.25	0.41
3:H:71:GLU:OE2	3:H:75:ARG:NH2	2.53	0.41
3:H:201:LEU:HD11	3:H:254:GLU:HB3	2.03	0.41
3:I:81:LEU:O	3:I:82:LEU:C	2.58	0.41
3:I:156:LEU:HD23	3:I:156:LEU:HA	1.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:194:ARG:CG	3:I:195:PRO:CD	2.97	0.41
1:A:188:SER:HB3	1:A:189:PHE:H	1.70	0.40
1:C:142:LEU:HD11	2:D:144:THR:CB	2.46	0.40
2:B:30:ASN:HB2	5:P:6:TYR:CE1	2.56	0.40
2:B:139:ASN:HD22	2:B:140:LYS:HG3	1.86	0.40
2:B:153:PHE:HB3	2:B:154:PRO:HD2	2.03	0.40
2:D:146:VAL:CG2	2:D:147:CYS:N	2.84	0.40
3:H:187:ALA:O	3:H:188:HIS:HB3	2.21	0.40
3:I:94:THR:CG2	3:I:95:ILE:H	2.33	0.40
5:Q:2:GLN:HG3	5:Q:3:TYR:N	2.36	0.40
1:A:192:GLN:HG3	1:A:193:ASP:N	2.35	0.40
1:C:32:LEU:HD13	1:C:73:PHE:CD1	2.56	0.40
1:C:109:GLY:O	1:C:110:THR:HB	2.21	0.40
2:B:60:ILE:HG13	2:B:60:ILE:O	2.21	0.40
2:D:54:SER:H	2:D:69:ARG:CB	2.34	0.40
3:I:75:ARG:NH1	11:I:951:HOH:O	2.53	0.40
4:L:59:ASP:O	4:L:60:TRP:HB2	2.22	0.40
1:C:19:GLN:HE22	1:C:74:HIS:HB3	1.86	0.40
1:C:128:LEU:CD2	1:C:140:LEU:HG	2.49	0.40
2:D:142:LYS:HZ2	2:D:197:ARG:HD3	1.86	0.40
3:H:102:GLU:HG3	3:H:113:TYR:HE2	1.85	0.40
3:I:36:PHE:HB2	3:I:45:TYR:HA	2.03	0.40
3:I:201:LEU:O	3:I:246:SER:CB	2.69	0.40
4:L:41:LYS:O	4:L:42:ASN:C	2.59	0.40
1:A:206:TYR:CB	2:B:135:ALA:HB1	2.50	0.40
1:C:82:TRP:HH2	1:C:167:VAL:HG21	1.83	0.40
2:B:6:GLN:HG2	2:B:92:CYS:SG	2.61	0.40
2:D:33:TYR:CD2	2:D:48:TYR:CB	3.05	0.40
2:D:36:ARG:O	2:D:36:ARG:HG2	2.20	0.40
2:D:121:ASN:CG	2:D:153:PHE:CE2	2.93	0.40
2:D:205:ASN:O	2:D:207:ARG:N	2.54	0.40
3:H:141:LEU:O	3:H:145:HIS:CD2	2.75	0.40
3:H:185:PRO:HA	3:H:206:LEU:O	2.22	0.40
4:L:17:ASN:OD1	4:L:73:THR:O	2.39	0.40
1:A:81:HIS:O	1:A:114:VAL:HG11	2.21	0.40
1:C:140:LEU:N	1:C:140:LEU:HD23	2.36	0.40
2:B:142:LYS:HG2	11:B:906:HOH:O	2.21	0.40
2:D:34:TRP:CZ3	2:D:92:CYS:HB3	2.57	0.40
3:H:133:TRP:O	3:H:144:LYS:NZ	2.46	0.40
3:H:230:LEU:HD23	3:H:230:LEU:H	1.87	0.40
3:I:132:THR:HG22	3:I:133:TRP:O	2.22	0.40

All (1) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:188:SER:CB	11:B:859:HOH:O[4_555]	1.98	0.22

## 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	200/202 (99%)	169 (84%)	24 (12%)	7 (4%)	3	3
1	C	200/202 (99%)	134 (67%)	43 (22%)	23 (12%)	0	0
2	B	235/237 (99%)	214 (91%)	17 (7%)	4 (2%)	9	11
2	D	235/237 (99%)	154 (66%)	62 (26%)	19 (8%)	1	0
3	H	272/275 (99%)	246 (90%)	23 (8%)	3 (1%)	14	20
3	I	272/275 (99%)	226 (83%)	34 (12%)	12 (4%)	2	2
4	L	97/99 (98%)	91 (94%)	6 (6%)	0	100	100
4	M	97/99 (98%)	75 (77%)	14 (14%)	8 (8%)	1	0
5	P	6/8 (75%)	5 (83%)	0	1 (17%)	0	0
5	Q	6/8 (75%)	5 (83%)	0	1 (17%)	0	0
All	All	1620/1642 (99%)	1319 (81%)	223 (14%)	78 (5%)	2	1

All (78) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	39	PRO
1	A	140	LEU
1	C	7	ASP
2	B	153	PHE
2	B	226	PRO
2	D	13	ALA
2	D	75	PHE

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	D	172	VAL
3	H	226	GLN
3	I	89	ALA
4	M	41	LYS
1	C	50	TYR
1	C	73	PHE
1	C	82	TRP
1	C	83	SER
1	C	174	ASP
1	C	190	THR
1	C	203	ASN
2	D	61	PRO
2	D	71	SER
2	D	149	ALA
2	D	199	SER
2	D	215	GLN
4	M	60	TRP
5	P	7	SER
5	Q	7	SER
1	C	101	ALA
1	C	144	THR
1	C	154	LYS
1	C	158	SER
1	C	159	GLY
1	C	209	SER
2	D	16	GLY
2	D	121	ASN
2	D	155	ASP
3	I	139	ALA
3	I	153	ALA
3	I	164	CYS
3	I	176	ASN
3	I	222	GLU
4	M	47	PRO
4	M	50	GLU
4	M	57	SER
1	A	69	SER
1	A	203	ASN
1	C	110	THR
1	C	137	ASP
1	C	187	THR
2	B	155	ASP

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Mol	Chain	Res	Type
2	D	110	ALA
2	D	138	ALA
2	D	206	PRO
2	D	233	VAL
3	I	55	GLU
3	I	82	LEU
3	I	148	GLU
4	M	40	LEU
1	A	198	THR
1	C	86	ALA
1	C	173	MET
1	C	192	GLN
2	D	153	PHE
3	H	227	ASP
3	H	255	GLN
3	I	38	SER
3	I	119	ASP
4	M	31	HIS
4	M	90	PRO
1	A	123	PRO
1	A	189	PHE
1	C	80	VAL
1	C	99	GLY
2	D	98	GLY
2	B	176	PRO
2	D	109	GLY
3	I	43	PRO
1	C	125	VAL
2	D	232	PRO

### 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	176/176 (100%)	165 (94%)	11 (6%)	18	28
1	C	176/176 (100%)	161 (92%)	15 (8%)	10	16

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	200/200 (100%)	194 (97%)	6 (3%)	41	61
2	D	200/200 (100%)	185 (92%)	15 (8%)	13	21
3	H	231/232 (100%)	215 (93%)	16 (7%)	15	25
3	I	230/232 (99%)	210 (91%)	20 (9%)	10	15
4	L	94/94 (100%)	89 (95%)	5 (5%)	22	37
4	M	94/94 (100%)	89 (95%)	5 (5%)	22	37
5	P	8/8 (100%)	7 (88%)	1 (12%)	4	5
5	Q	8/8 (100%)	6 (75%)	2 (25%)	0	0
All	All	1417/1420 (100%)	1321 (93%)	96 (7%)	16	25

All (96) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	GLN
1	A	3	VAL
1	A	30	PRO
1	A	39	PRO
1	A	56	VAL
1	A	114	VAL
1	A	129	LYS
1	A	155	THR
1	A	156	MET
1	A	157	GLU
1	A	161	PHE
1	C	7	ASP
1	C	9	ARG
1	C	19	GLN
1	C	20	LEU
1	C	30	PRO
1	C	62	PHE
1	C	71	SER
1	C	100	PHE
1	C	102	SER
1	C	120	ASN
1	C	128	LEU
1	C	139	THR
1	C	141	CYS
1	C	151	ASN
1	C	168	LEU

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
2	B	25	GLN
2	B	49	SER
2	B	139	ASN
2	B	159	LEU
2	B	242	TRP
2	B	244	ARG
2	D	37	GLN
2	D	38	ASP
2	D	44	ARG
2	D	72	GLN
2	D	74	ASN
2	D	78	ILE
2	D	106	LEU
2	D	145	LEU
2	D	152	PHE
2	D	162	TRP
2	D	186	ASN
2	D	202	PHE
2	D	207	ARG
2	D	242	TRP
2	D	244	ARG
3	H	5	LEU
3	H	12	VAL
3	H	14	ARG
3	H	19	GLU
3	H	21	ARG
3	H	45	TYR
3	H	46	GLU
3	H	97	VAL
3	H	99	SER
3	H	103	VAL
3	H	111	ARG
3	H	156	LEU
3	H	212	ASP
3	H	220	ASN
3	H	227	ASP
3	H	230	LEU
3	I	33	PHE
3	I	39	ASP
3	I	45	TYR
3	I	48	ARG
3	I	50	ARG

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Mol	Chain	Res	Type
3	I	52	MET
3	I	70	ASN
3	I	85	TYR
3	I	87	GLN
3	I	88	SER
3	I	99	SER
3	I	113	TYR
3	I	114	GLN
3	I	137	ASP
3	I	138	MET
3	I	145	HIS
3	I	229	GLU
3	I	231	VAL
3	I	251	LEU
3	I	272	LEU
4	L	12	ARG
4	L	23	LEU
4	L	70	PHE
4	L	92	THR
4	L	97	ARG
4	M	7	ILE
4	M	53	ASP
4	M	70	PHE
4	M	74	GLU
4	M	87	MET
5	P	2	GLN
5	Q	2	GLN
5	Q	8	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (59) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	37	GLN
1	A	136	GLN
1	A	185	ASN
1	A	186	GLN
1	A	203	ASN
1	C	5	GLN
1	C	19	GLN
1	C	74	HIS
1	C	81	HIS
1	C	149	GLN

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	C	151	ASN
1	C	203	ASN
2	B	30	ASN
2	B	31	ASN
2	B	37	GLN
2	B	72	GLN
2	B	121	ASN
2	B	139	ASN
2	B	236	ASN
2	D	6	GLN
2	D	10	ASN
2	D	25	GLN
2	D	37	GLN
2	D	74	ASN
2	D	86	GLN
2	D	139	ASN
2	D	164	ASN
2	D	186	ASN
2	D	235	GLN
3	H	54	GLN
3	H	115	GLN
3	H	127	ASN
3	H	145	HIS
3	H	174	ASN
3	H	218	GLN
3	H	220	ASN
3	H	226	GLN
3	H	263	HIS
3	I	42	ASN
3	I	54	GLN
3	I	70	ASN
3	I	72	GLN
3	I	86	ASN
3	I	87	GLN
3	I	96	GLN
3	I	114	GLN
3	I	127	ASN
3	I	149	GLN
3	I	192	HIS
3	I	255	GLN
3	I	263	HIS
4	L	29	GLN

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Mol	Chain	Res	Type
4	M	8	GLN
4	M	13	HIS
4	M	21	ASN
4	M	29	GLN
4	M	38	GLN
5	P	2	GLN
5	Q	2	GLN

### 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](#)

13 monosaccharides 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$
6	NAG	E	1	1,6	14,14,15	1.08	0	17,19,21	1.78	2 (11%)
6	NAG	E	2	6	14,14,15	1.06	1 (7%)	17,19,21	1.82	5 (29%)
7	NAG	F	1	1,7	14,14,15	0.91	0	17,19,21	1.35	1 (5%)
7	NAG	F	2	7	14,14,15	0.62	0	17,19,21	1.16	1 (5%)
7	BMA	F	3	7	11,11,12	1.53	3 (27%)	15,15,17	2.80	6 (40%)
7	NAG	G	1	1,7	14,14,15	1.09	1 (7%)	17,19,21	1.61	3 (17%)
7	NAG	G	2	7	14,14,15	1.10	2 (14%)	17,19,21	2.28	4 (23%)
7	BMA	G	3	7	11,11,12	1.22	1 (9%)	15,15,17	1.06	0
7	NAG	J	1	2,7	14,14,15	1.00	0	17,19,21	1.64	3 (17%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
7	NAG	J	2	7	14,14,15	1.16	2 (14%)	17,19,21	2.18	4 (23%)
7	BMA	J	3	7	11,11,12	0.79	1 (9%)	15,15,17	1.92	3 (20%)
6	NAG	K	1	6,3	14,14,15	1.04	0	17,19,21	1.86	1 (5%)
6	NAG	K	2	6	14,14,15	0.62	0	17,19,21	1.07	3 (17%)

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
6	NAG	E	1	1,6	-	0/6/23/26	0/1/1/1
6	NAG	E	2	6	-	0/6/23/26	0/1/1/1
7	NAG	F	1	1,7	-	0/6/23/26	0/1/1/1
7	NAG	F	2	7	-	0/6/23/26	0/1/1/1
7	BMA	F	3	7	-	2/2/19/22	0/1/1/1
7	NAG	G	1	1,7	-	0/6/23/26	0/1/1/1
7	NAG	G	2	7	-	2/6/23/26	0/1/1/1
7	BMA	G	3	7	-	2/2/19/22	0/1/1/1
7	NAG	J	1	2,7	-	0/6/23/26	0/1/1/1
7	NAG	J	2	7	-	0/6/23/26	0/1/1/1
7	BMA	J	3	7	-	2/2/19/22	0/1/1/1
6	NAG	K	1	6,3	1/1/5/7	0/6/23/26	0/1/1/1
6	NAG	K	2	6	-	0/6/23/26	0/1/1/1

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	F	3	BMA	O5-C5	-3.45	1.36	1.43
7	G	3	BMA	O5-C1	-3.30	1.38	1.43
7	J	2	NAG	O5-C1	-2.88	1.39	1.43
7	G	2	NAG	O5-C1	-2.78	1.39	1.43
6	E	2	NAG	O5-C1	-2.76	1.39	1.43
7	J	2	NAG	O4-C4	-2.48	1.37	1.43
7	F	3	BMA	O5-C1	-2.30	1.40	1.43
7	J	3	BMA	O5-C1	-2.18	1.40	1.43
7	G	1	NAG	C2-N2	-2.16	1.42	1.46
7	G	2	NAG	C1-C2	-2.15	1.49	1.52
7	F	3	BMA	O2-C2	-2.08	1.38	1.43

All (36) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
6	K	1	NAG	O5-C1-C2	-6.91	100.38	111.29
7	G	2	NAG	O5-C1-C2	-6.90	100.39	111.29
7	F	3	BMA	C1-O5-C5	6.76	121.34	112.19
6	E	1	NAG	O5-C1-C2	-6.09	101.67	111.29
7	J	2	NAG	O5-C1-C2	5.43	119.86	111.29
7	J	3	BMA	O5-C1-C2	-5.25	102.67	110.77
7	F	3	BMA	O2-C2-C3	5.03	120.22	110.14
7	J	1	NAG	O5-C1-C2	-4.96	103.46	111.29
7	G	1	NAG	O5-C1-C2	-4.58	104.05	111.29
7	J	2	NAG	O5-C5-C4	4.55	121.89	110.83
7	F	1	NAG	O5-C1-C2	-4.53	104.14	111.29
7	F	3	BMA	O2-C2-C1	-4.38	100.19	109.15
7	J	2	NAG	O4-C4-C3	-3.90	101.33	110.35
7	G	2	NAG	O6-C6-C5	-3.89	97.95	111.29
7	J	3	BMA	C1-C2-C3	3.60	114.08	109.67
6	E	2	NAG	O5-C1-C2	3.59	116.95	111.29
7	J	1	NAG	O4-C4-C5	-3.40	100.86	109.30
7	F	3	BMA	O5-C1-C2	-3.29	105.69	110.77
6	E	1	NAG	O4-C4-C3	3.22	117.79	110.35
6	E	2	NAG	O5-C5-C4	3.21	118.64	110.83
7	G	2	NAG	O4-C4-C3	-3.05	103.30	110.35
7	G	2	NAG	O5-C5-C6	-3.02	102.47	107.20
6	E	2	NAG	C1-O5-C5	2.95	116.19	112.19
7	G	1	NAG	C3-C4-C5	2.85	115.32	110.24
7	J	2	NAG	O5-C5-C6	-2.79	102.83	107.20
6	E	2	NAG	C1-C2-N2	2.78	115.23	110.49
7	F	3	BMA	C1-C2-C3	2.64	112.92	109.67
6	E	2	NAG	O5-C5-C6	-2.52	103.25	107.20
7	F	2	NAG	O5-C1-C2	-2.41	107.49	111.29
7	G	1	NAG	C4-C3-C2	-2.29	107.66	111.02
7	J	3	BMA	C6-C5-C4	-2.18	107.89	113.00
7	F	3	BMA	O4-C4-C5	-2.12	104.04	109.30
6	K	2	NAG	O5-C1-C2	-2.10	107.97	111.29
7	J	1	NAG	O4-C4-C3	2.07	115.13	110.35
6	K	2	NAG	O5-C5-C6	-2.05	103.99	107.20
6	K	2	NAG	C4-C3-C2	-2.01	108.06	111.02

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
6	K	1	NAG	C1

All (8) torsion outliers are listed below:

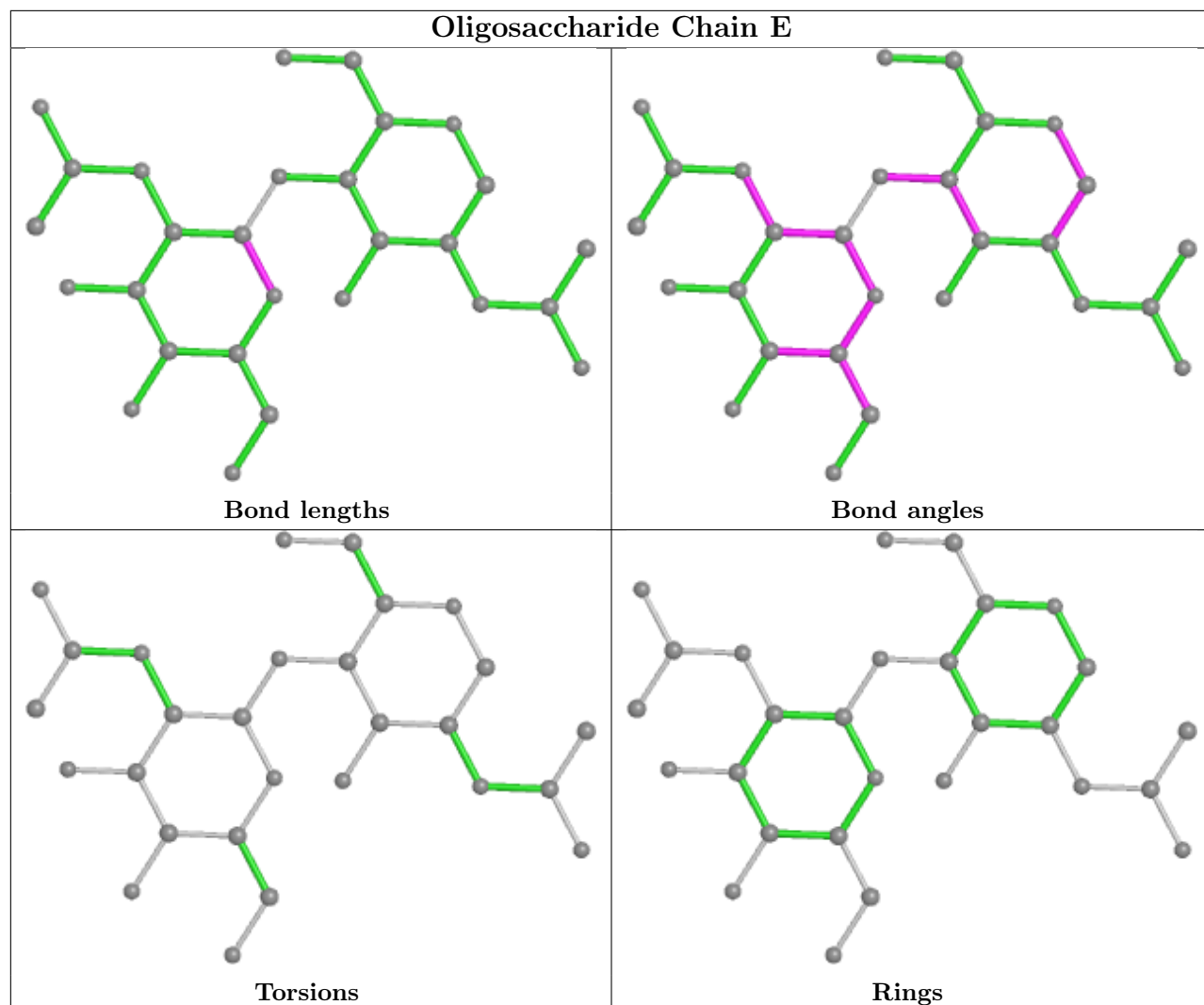
Mol	Chain	Res	Type	Atoms
7	G	2	NAG	O5-C5-C6-O6
7	G	2	NAG	C4-C5-C6-O6
7	J	3	BMA	O5-C5-C6-O6
7	G	3	BMA	O5-C5-C6-O6
7	J	3	BMA	C4-C5-C6-O6
7	G	3	BMA	C4-C5-C6-O6
7	F	3	BMA	O5-C5-C6-O6
7	F	3	BMA	C4-C5-C6-O6

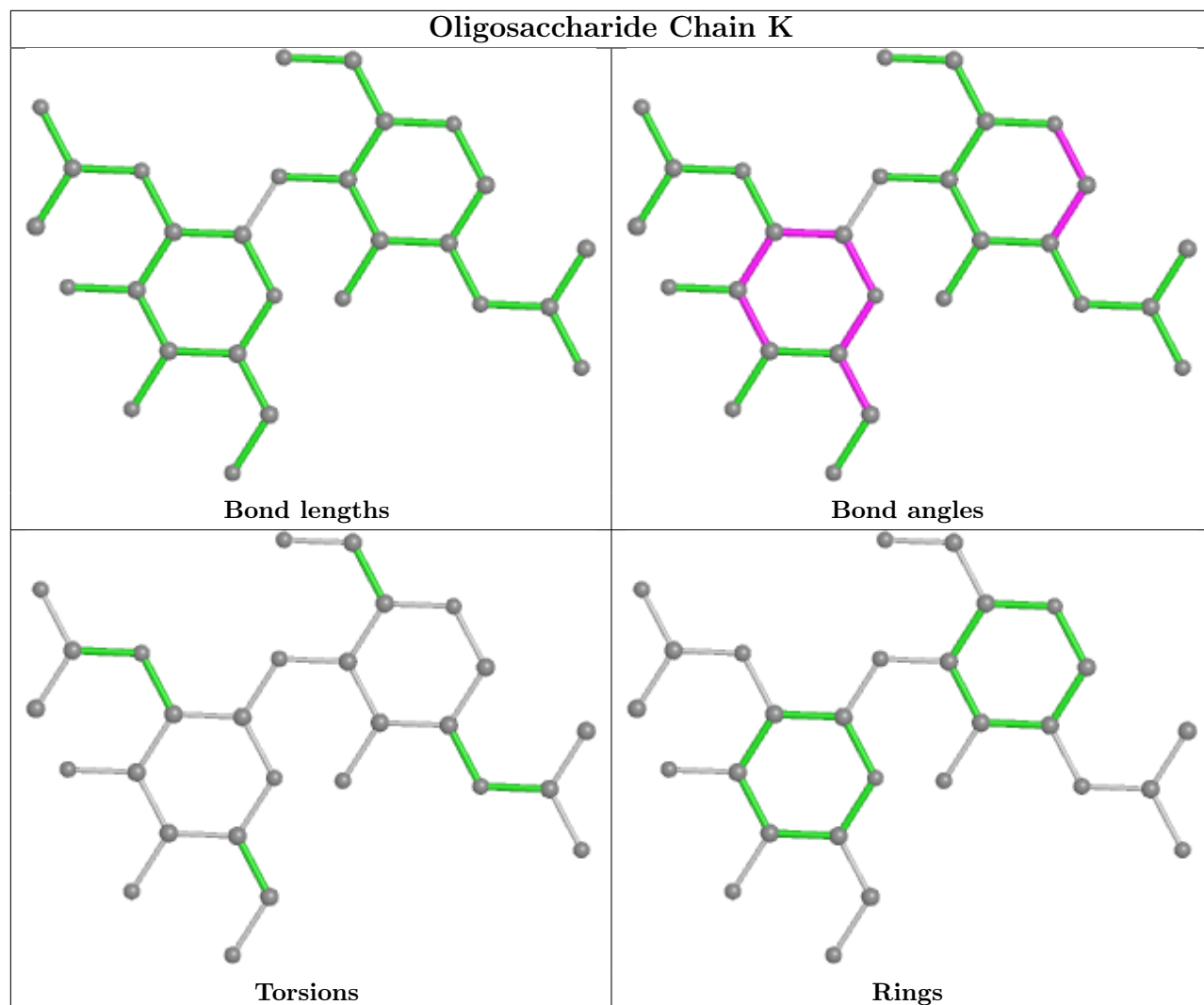
There are no ring outliers.

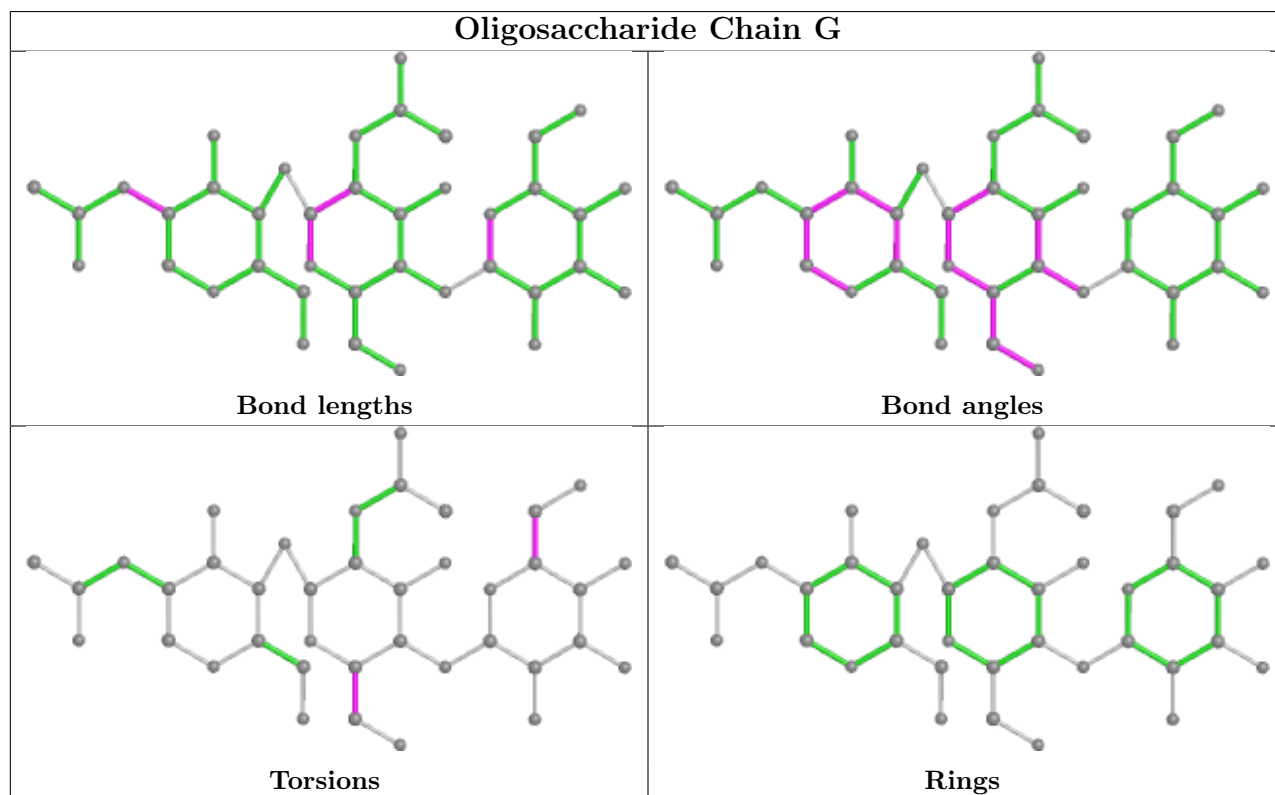
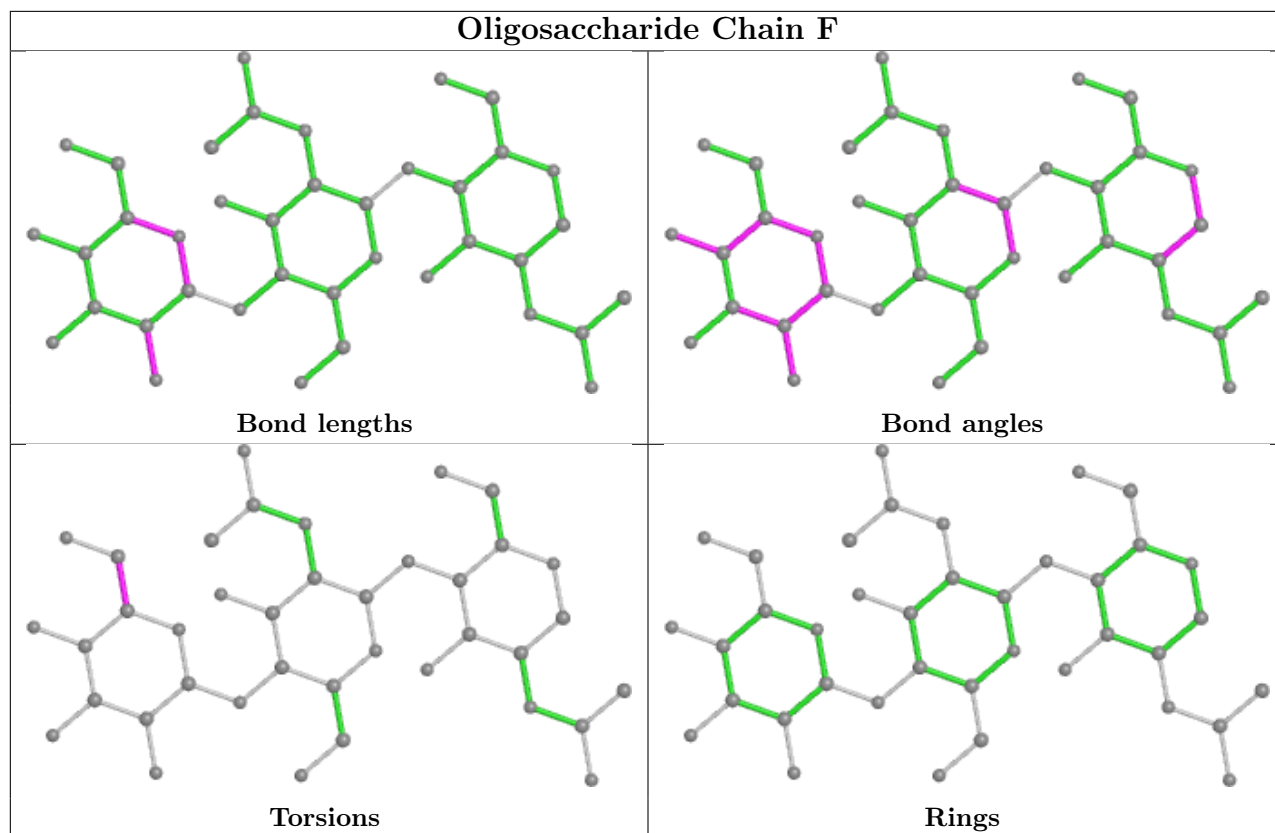
11 monomers are involved in 38 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	K	1	NAG	2	0
6	K	2	NAG	5	0
7	J	2	NAG	5	0
7	J	3	BMA	5	0
7	F	1	NAG	11	0
7	F	3	BMA	4	0
7	G	1	NAG	4	0
7	F	2	NAG	5	0
7	J	1	NAG	8	0
7	G	2	NAG	3	0
6	E	1	NAG	1	0

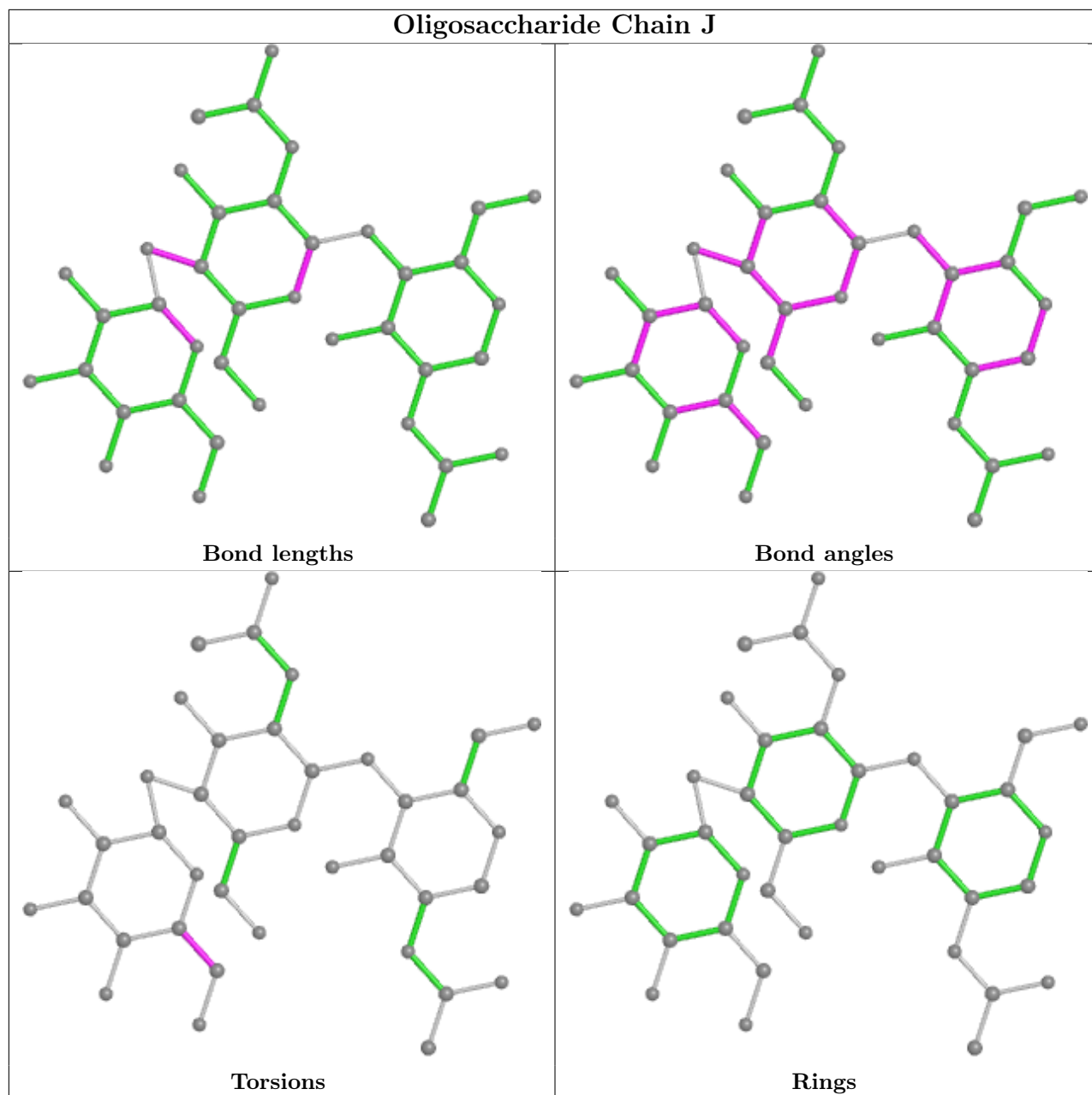
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.











## 5.6 Ligand geometry [i](#)

5 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
10	ACY	P	1001	-	3,3,3	0.81	0	3,3,3	1.13	0
9	NAG	B	808	2	14,14,15	0.91	1 (7%)	17,19,21	1.71	1 (5%)
8	GOL	A	902	-	5,5,5	0.28	0	5,5,5	0.70	0
8	GOL	L	901	-	5,5,5	0.34	0	5,5,5	0.68	0
8	GOL	I	903	-	5,5,5	0.66	0	5,5,5	0.79	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
8	GOL	A	902	-	-	2/4/4/4	-
8	GOL	L	901	-	-	2/4/4/4	-
8	GOL	I	903	-	-	2/4/4/4	-
9	NAG	B	808	2	1/1/5/7	0/6/23/26	0/1/1/1

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	B	808	NAG	C2-N2	-2.17	1.42	1.46

All (1) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
9	B	808	NAG	O5-C1-C2	-5.86	102.03	111.29

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
9	B	808	NAG	C1

All (6) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
8	A	902	GOL	C1-C2-C3-O3
8	I	903	GOL	C1-C2-C3-O3
8	L	901	GOL	C1-C2-C3-O3
8	A	902	GOL	O2-C2-C3-O3
8	I	903	GOL	O2-C2-C3-O3

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Mol	Chain	Res	Type	Atoms
8	L	901	GOL	O2-C2-C3-O3

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 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	A	202/202 (100%)	0.44	13 (6%) 19 18	4, 25, 74, 98	0
1	C	202/202 (100%)	2.33	89 (44%) 0 0	52, 82, 127, 136	0
2	B	237/237 (100%)	0.10	2 (0%) 86 84	14, 27, 47, 74	0
2	D	237/237 (100%)	3.22	143 (60%) 0 0	59, 113, 124, 141	0
3	H	274/275 (99%)	0.12	3 (1%) 80 79	7, 23, 43, 54	0
3	I	274/275 (99%)	0.57	23 (8%) 11 10	15, 47, 70, 77	0
4	L	99/99 (100%)	-0.11	0 100 100	9, 21, 36, 44	0
4	M	99/99 (100%)	0.57	2 (2%) 65 63	32, 47, 61, 65	0
5	P	8/8 (100%)	0.28	0 100 100	10, 14, 19, 19	0
5	Q	8/8 (100%)	3.46	6 (75%) 0 0	81, 84, 89, 91	0
All	All	1640/1642 (99%)	0.98	281 (17%) 1 1	4, 39, 122, 141	0

All (281) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	D	145	LEU	15.6
1	C	211	VAL	14.1
2	D	218	GLY	13.3
2	D	214	VAL	12.7
1	C	127	ALA	11.6
2	D	143	ALA	11.3
2	D	219	LEU	11.0
2	D	129	LEU	10.5
2	D	196	LEU	10.4
2	D	159	LEU	10.3
1	C	207	PRO	10.3
2	D	154	PRO	10.2
2	D	127	VAL	10.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
5	Q	8	VAL	10.1
2	D	144	THR	10.0
2	D	241	ALA	9.5
1	C	140	LEU	9.3
2	D	146	VAL	8.8
2	D	179	TYR	8.5
1	C	128	LEU	8.4
2	D	242	TRP	8.2
2	D	244	ARG	8.1
2	D	142	LYS	8.0
2	D	210	PHE	8.0
1	C	188	SER	7.9
1	C	208	SER	7.9
2	D	153	PHE	7.8
1	C	141	CYS	7.5
2	D	148	LEU	7.5
2	D	92	CYS	7.5
2	D	21	LEU	7.3
1	C	125	VAL	7.3
2	D	192	LEU	7.1
2	D	231	LYS	7.1
2	D	233	VAL	6.8
2	D	14	VAL	6.7
1	C	209	SER	6.7
2	D	93	ALA	6.6
2	D	114	LEU	6.6
1	C	142	LEU	6.5
1	C	91	ALA	6.4
1	C	184	SER	6.4
2	D	228	GLY	6.3
1	C	179	GLY	6.2
2	D	232	PRO	6.2
1	C	152	VAL	6.2
1	C	162	ILE	6.1
1	C	158	SER	6.0
1	C	183	TRP	6.0
2	D	122	VAL	6.0
2	D	131	GLU	5.9
2	D	182	SER	5.8
1	C	159	GLY	5.8
2	D	190	TYR	5.8
2	D	198	VAL	5.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	I	123	TYR	5.7
2	D	193	SER	5.7
2	D	7	SER	5.6
1	C	126	TYR	5.5
2	D	220	SER	5.4
1	C	206	TYR	5.4
2	D	195	ARG	5.3
2	D	316	LEU	5.3
1	C	156	MET	5.3
2	D	245	ALA	5.3
2	D	178	ALA	5.2
1	A	206	TYR	5.2
1	C	181	ILE	5.2
2	D	75	PHE	5.2
2	D	165	GLY	5.1
1	C	161	PHE	5.1
2	D	149	ALA	5.1
2	D	128	SER	5.1
2	D	77	LEU	4.9
2	D	162	TRP	4.9
2	D	226	PRO	4.8
1	C	163	THR	4.8
2	D	132	PRO	4.8
1	C	147	ASP	4.8
2	D	133	SER	4.8
1	C	123	PRO	4.7
1	C	187	THR	4.7
1	C	180	ALA	4.7
2	D	91	PHE	4.7
2	B	2	ALA	4.6
2	D	81	LEU	4.6
2	D	202	PHE	4.5
2	D	197	ARG	4.5
1	C	153	PRO	4.5
2	D	119	LEU	4.5
1	A	213	CYS	4.5
1	C	146	PHE	4.5
2	D	98	GLY	4.4
2	D	137	ILE	4.4
1	C	182	ALA	4.4
2	D	111	GLY	4.3
2	D	130	PHE	4.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	D	243	GLY	4.3
2	D	213	GLN	4.3
1	C	176	LYS	4.3
1	C	88	TYR	4.2
2	D	164	ASN	4.2
2	D	168	VAL	4.1
2	D	223	ASP	4.1
1	C	129	LYS	4.1
2	D	87	THR	4.1
2	D	163	VAL	4.1
2	D	224	LYS	4.1
2	D	85	SER	4.1
1	C	198	THR	4.1
1	C	92	VAL	4.1
1	C	157	GLU	4.0
1	C	212	PRO	4.0
2	D	189	SER	4.0
2	D	204	HIS	4.0
2	D	79	LEU	4.0
2	D	208	ASN	4.0
1	C	210	ASP	3.9
2	D	4	VAL	3.9
2	D	160	SER	3.9
1	C	168	LEU	3.9
1	C	135	SER	3.9
2	D	180	LYS	3.9
1	A	189	PHE	3.8
2	D	203	TRP	3.9
1	C	205	THR	3.8
2	D	134	LYS	3.8
1	C	47	LEU	3.7
2	D	215	GLN	3.7
1	C	155	THR	3.7
1	C	213	CYS	3.7
2	D	227	GLU	3.7
2	D	229	SER	3.7
1	C	121	PRO	3.6
2	D	157	VAL	3.6
3	I	116	TYR	3.6
2	D	158	GLU	3.6
2	D	225	TRP	3.6
2	D	161	TRP	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	D	209	HIS	3.5
1	C	38	TYR	3.4
2	D	6	GLN	3.4
2	D	125	PRO	3.4
2	D	107	TYR	3.3
2	D	230	PRO	3.3
3	I	12	VAL	3.3
1	C	102	SER	3.3
1	A	156	MET	3.3
2	D	174	THR	3.3
1	C	82	TRP	3.3
2	D	45	LEU	3.2
5	Q	1	GLU	3.2
2	D	147	CYS	3.2
3	I	84	TYR	3.2
1	C	204	ALA	3.2
1	C	166	THR	3.2
2	D	60	ILE	3.2
1	C	194	ILE	3.1
1	C	144	THR	3.1
2	D	207	ARG	3.1
5	Q	4	LYS	3.1
3	I	22	TYR	3.1
1	C	167	VAL	3.1
2	D	235	GLN	3.0
2	D	94	SER	3.0
1	C	193	ASP	3.0
5	Q	3	TYR	3.0
2	D	234	THR	3.0
2	D	187	TYR	3.0
1	C	137	ASP	3.0
1	C	46	LEU	3.0
3	I	17	LEU	3.0
2	D	97	GLY	3.0
1	C	148	SER	2.9
1	C	48	LYS	2.9
1	C	139	THR	2.9
2	D	2	ALA	2.9
2	D	1	GLU	2.9
2	D	120	ARG	2.9
2	D	118	ASP	2.8
2	D	136	GLU	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	C	192	GLN	2.8
2	D	124	PRO	2.8
2	D	173	SER	2.8
2	D	80	GLU	2.8
3	I	92	SER	2.8
2	D	212	CYS	2.8
2	D	19	VAL	2.8
2	D	156	HIS	2.8
2	D	176	PRO	2.8
1	C	165	ALA	2.8
2	D	247	CYS	2.7
5	Q	6	TYR	2.7
3	I	95	ILE	2.7
2	D	237	ILE	2.7
5	Q	5	PHE	2.7
1	C	62	PHE	2.7
1	C	143	PHE	2.7
2	B	1	GLU	2.7
1	C	186	GLN	2.7
1	C	189	PHE	2.7
1	C	100	PHE	2.7
1	C	115	LEU	2.7
3	H	225	ILE	2.7
1	A	212	PRO	2.7
1	C	196	LYS	2.7
1	A	194	ILE	2.7
1	A	195	PHE	2.6
1	A	207	PRO	2.6
2	D	181	GLU	2.6
2	D	13	ALA	2.6
3	I	42	ASN	2.6
2	D	113	ARG	2.6
2	D	48	TYR	2.6
2	D	222	GLU	2.6
1	A	155	THR	2.5
2	D	106	LEU	2.5
2	D	205	ASN	2.5
1	C	145	ASP	2.5
3	I	142	ILE	2.5
1	C	44	GLN	2.5
2	D	8	PRO	2.5
2	D	200	ALA	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	D	33	TYR	2.5
1	C	170	MET	2.5
1	C	64	ALA	2.5
1	C	118	ILE	2.5
2	D	141	GLN	2.4
3	I	82	LEU	2.4
1	C	138	SER	2.4
2	D	88	SER	2.4
3	I	8	PHE	2.4
1	A	209	SER	2.4
3	I	140	ALA	2.4
1	C	32	LEU	2.4
1	C	112	VAL	2.4
2	D	108	PHE	2.4
2	D	216	PHE	2.4
2	D	177	GLN	2.4
3	I	85	TYR	2.3
1	C	43	LEU	2.3
2	D	109	GLY	2.3
3	I	28	VAL	2.3
2	D	22	SER	2.3
3	I	64	THR	2.3
2	D	211	ARG	2.3
1	C	72	SER	2.3
2	D	56	GLU	2.3
2	D	126	LYS	2.3
3	I	51	TRP	2.3
1	A	198	THR	2.3
2	D	90	TYR	2.3
1	C	150	ILE	2.2
2	D	3	ALA	2.2
3	I	136	ALA	2.2
1	C	39	PRO	2.2
1	C	90	CYS	2.2
3	I	89	ALA	2.1
3	I	98	ILE	2.1
1	A	208	SER	2.1
3	H	138	MET	2.1
2	D	10	ASN	2.1
1	A	159	GLY	2.1
3	I	124	ILE	2.1
3	H	251	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
2	D	140	LYS	2.1
4	M	51	MET	2.1
1	C	22	CYS	2.1
1	C	40	ARG	2.1
2	D	201	THR	2.1
4	M	82	VAL	2.1
1	C	132	ASP	2.1
2	D	155	ASP	2.1
2	D	121	ASN	2.1
1	C	116	PRO	2.0
1	C	190	THR	2.0
1	C	151	ASN	2.0
2	D	152	PHE	2.0
3	I	151	GLY	2.0
2	D	84	PRO	2.0
3	I	57	PRO	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](#)

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, 95<sup>th</sup> 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.

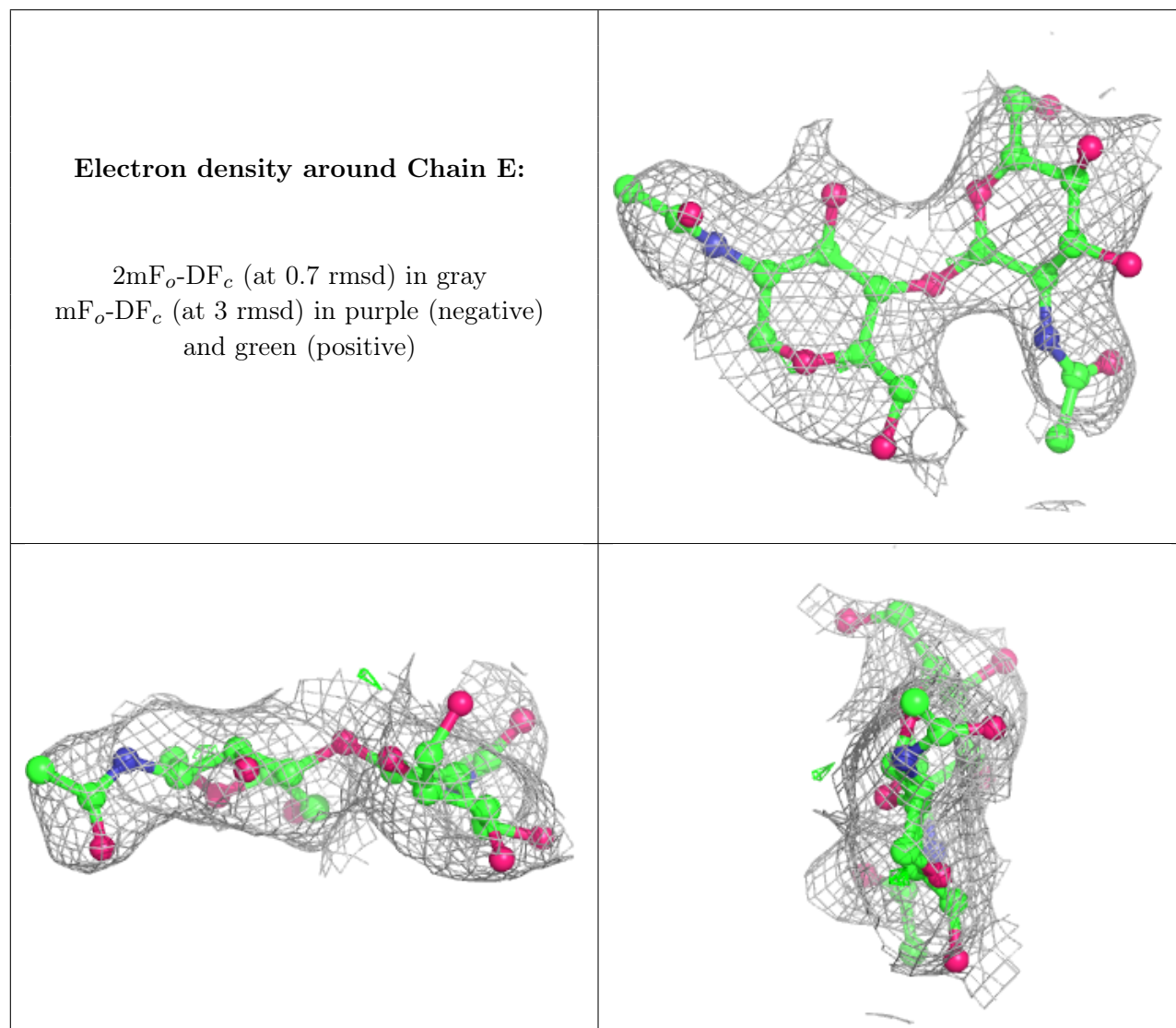
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
7	NAG	F	1	14/15	0.49	0.32	128,129,130,130	0
7	NAG	G	2	14/15	0.53	0.29	125,127,128,130	0
6	NAG	K	1	14/15	0.67	0.20	102,113,115,115	0
7	NAG	F	2	14/15	0.71	0.39	130,130,130,131	0
7	BMA	F	3	11/12	0.73	0.23	129,130,130,131	0
7	NAG	G	1	14/15	0.75	0.19	115,122,124,125	0
7	BMA	J	3	11/12	0.78	0.19	121,123,124,124	0
6	NAG	K	2	14/15	0.80	0.33	125,126,126,126	0
7	NAG	J	1	14/15	0.81	0.36	101,103,106,108	0
6	NAG	E	2	14/15	0.82	0.26	109,114,116,116	0
7	BMA	G	3	11/12	0.83	0.25	131,132,132,133	0
7	NAG	J	2	14/15	0.87	0.27	112,115,117,119	0

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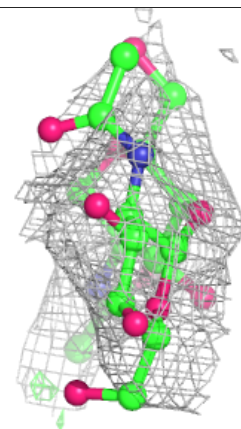
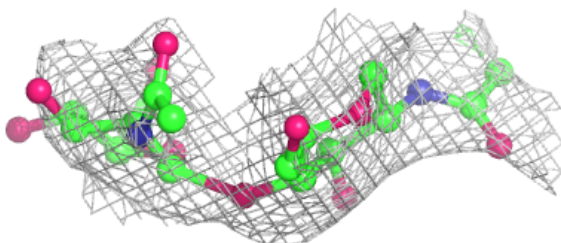
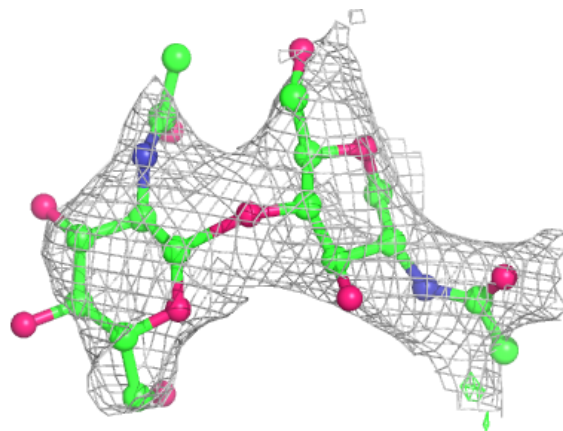
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
6	NAG	E	1	14/15	0.88	0.30	80,88,98,103	0

The following is a graphical depiction of the model fit to experimental electron density for oligosaccharide. Each fit is shown from different orientation to approximate a three-dimensional view.

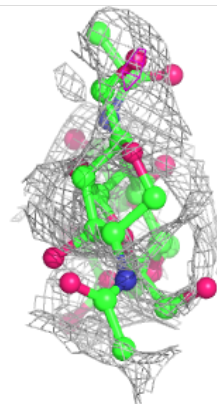
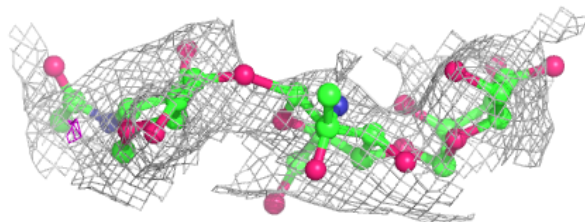
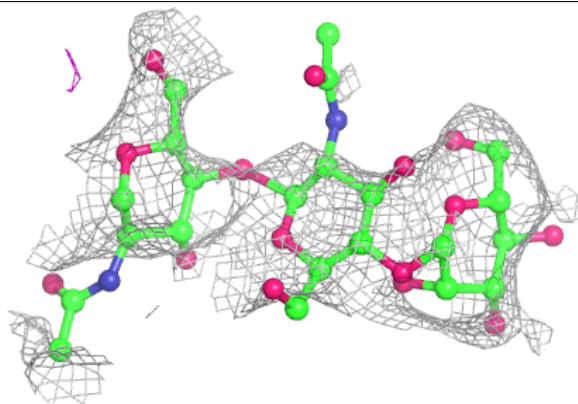


**Electron density around Chain K:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)

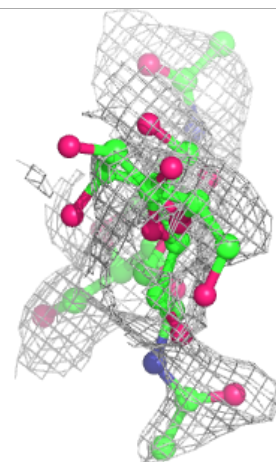
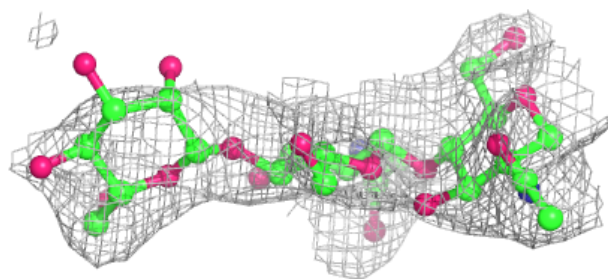
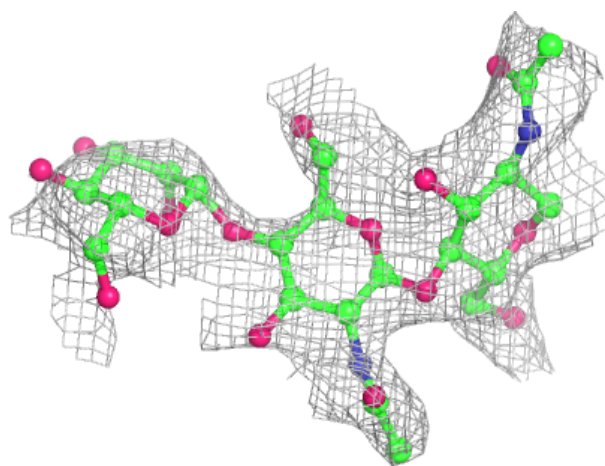
**Electron density around Chain F:**

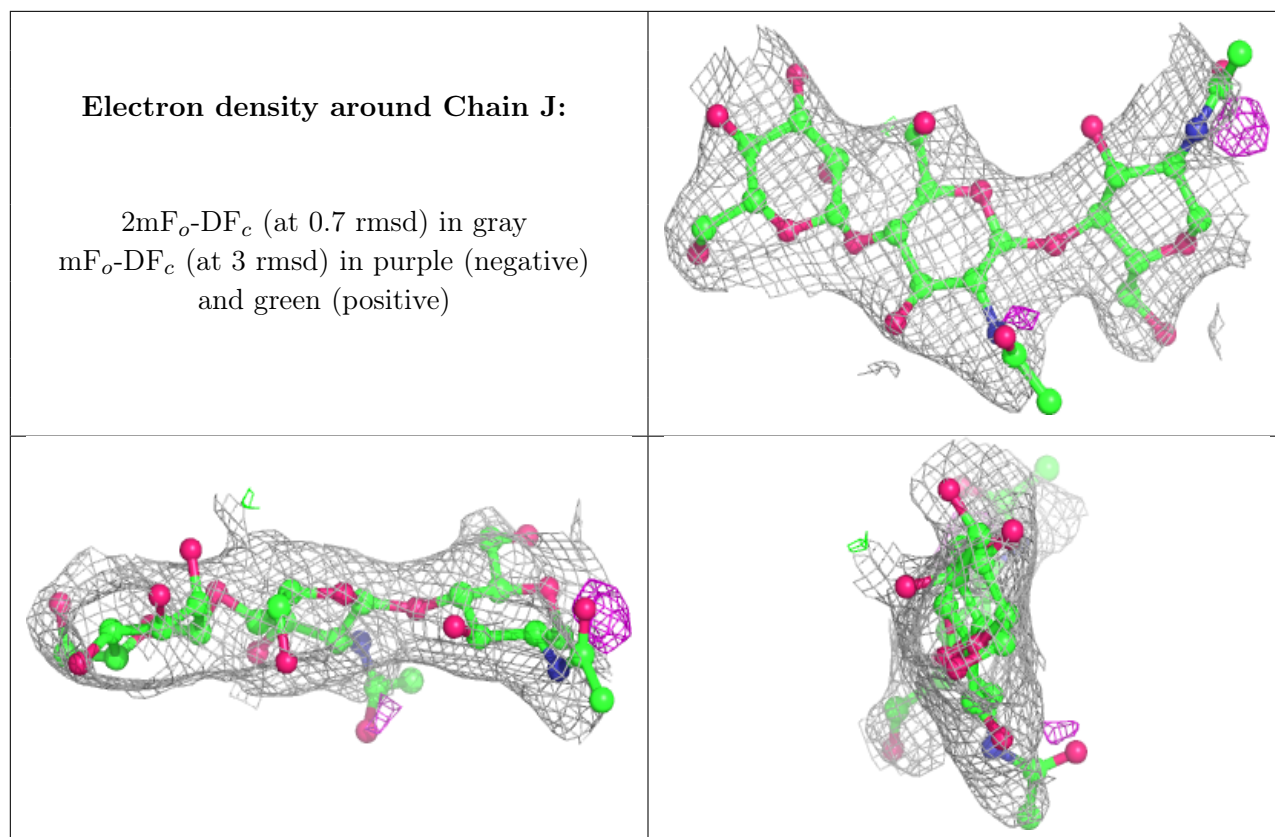
$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)



**Electron density around Chain G:**

$2mF_o-DF_c$  (at 0.7 rmsd) in gray  
 $mF_o-DF_c$  (at 3 rmsd) in purple (negative)  
and green (positive)





## 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
9	NAG	B	808	14/15	0.59	0.29	91,103,104,105	0
8	GOL	I	903	6/6	0.62	0.27	101,102,102,102	0
10	ACY	P	1001	4/4	0.69	0.56	84,84,84,85	0
8	GOL	L	901	6/6	0.81	0.34	101,101,101,101	0
8	GOL	A	902	6/6	0.82	0.53	112,112,112,112	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.