



Full wwPDB EM Validation Report ⓘ

Nov 3, 2024 – 07:12 am GMT

PDB ID : 7O7S
EMDB ID : EMD-12755
Title : (h-alpha2M)4 plasmin-activated II state
Authors : Luque, D.; Goulas, T.; Mata, C.P.; Mendes, S.R.; Gomis-Ruth, F.X.; Caston, J.R.
Deposited on : 2021-04-13
Resolution : 4.30 Å(reported)

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

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

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev113
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.39

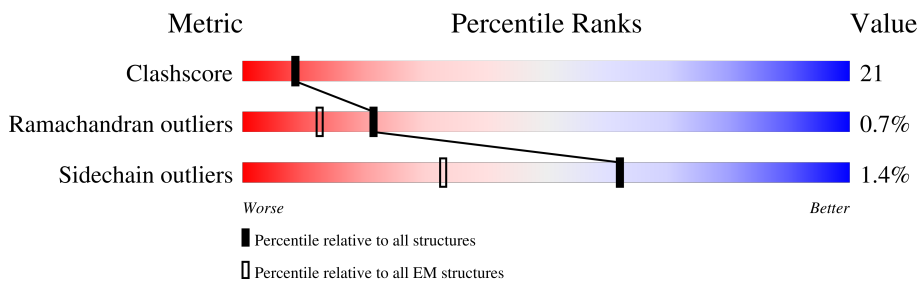
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 4.30 Å.

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



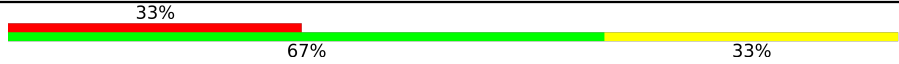
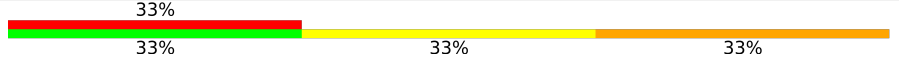
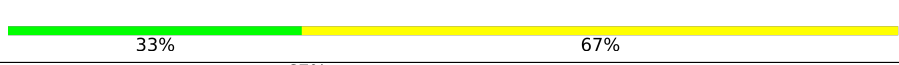
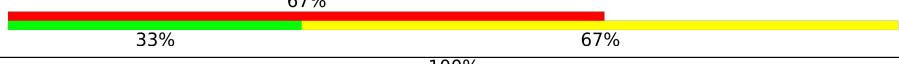
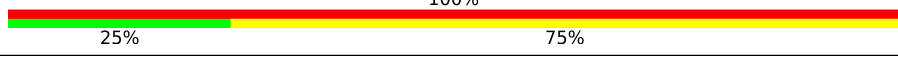
Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	210492	15764
Ramachandran outliers	207382	16835
Sidechain outliers	206894	16415

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	1474	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">19%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">50%</div> <div style="text-align: center;">36%</div> <div style="text-align: center;">• 13%</div> </div>
1	B	1474	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">24%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">53%</div> <div style="text-align: center;">33%</div> <div style="text-align: center;">• 13%</div> </div>
1	C	1474	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">32%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">52%</div> <div style="text-align: center;">34%</div> <div style="text-align: center;">• 13%</div> </div>
1	D	1474	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">48%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">61%</div> <div style="text-align: center;">33%</div> <div style="text-align: center;">• 5%</div> </div>
2	E	2	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">50%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">100%</div> </div>
2	G	2	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">100%</div> </div>
2	I	2	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">50%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">50%</div> <div style="text-align: center;">50%</div> </div>
2	K	2	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;">50%</div> <div style="width: 100%; height: 15px; background: linear-gradient(to right, red, orange, yellow, green, grey);"></div> <div style="text-align: center;">50%</div> </div>

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Mol	Chain	Length	Quality of chain
3	F	3	
3	H	3	
3	J	3	
3	M	3	
4	L	4	

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
5	NAG	C	2004	-	-	X	-

2 Entry composition [i](#)

There are 5 unique types of molecules in this entry. The entry contains 41466 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 Alpha-2-macroglobulin.

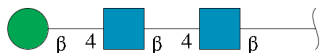
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	A	1276	9958	6331	1672	1912	43	0	0
1	B	1276	9958	6331	1672	1912	43	0	0
1	C	1277	9967	6336	1673	1915	43	0	0
1	D	1407	10985	6988	1836	2113	48	0	0

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



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

- Molecule 3 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.



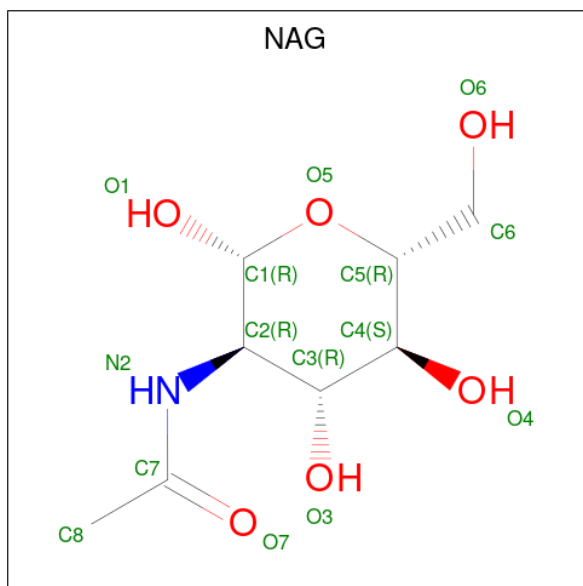
Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
3	F	3	39	22	2	15	0	0
3	H	3	39	22	2	15	0	0
3	J	3	39	22	2	15	0	0
3	M	3	39	22	2	15	0	0

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



Mol	Chain	Residues	Atoms				AltConf	Trace
			Total	C	N	O		
4	L	4	50	28	2	20	0	0

- Molecule 5 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
5	A	1	14	8	1	5	0

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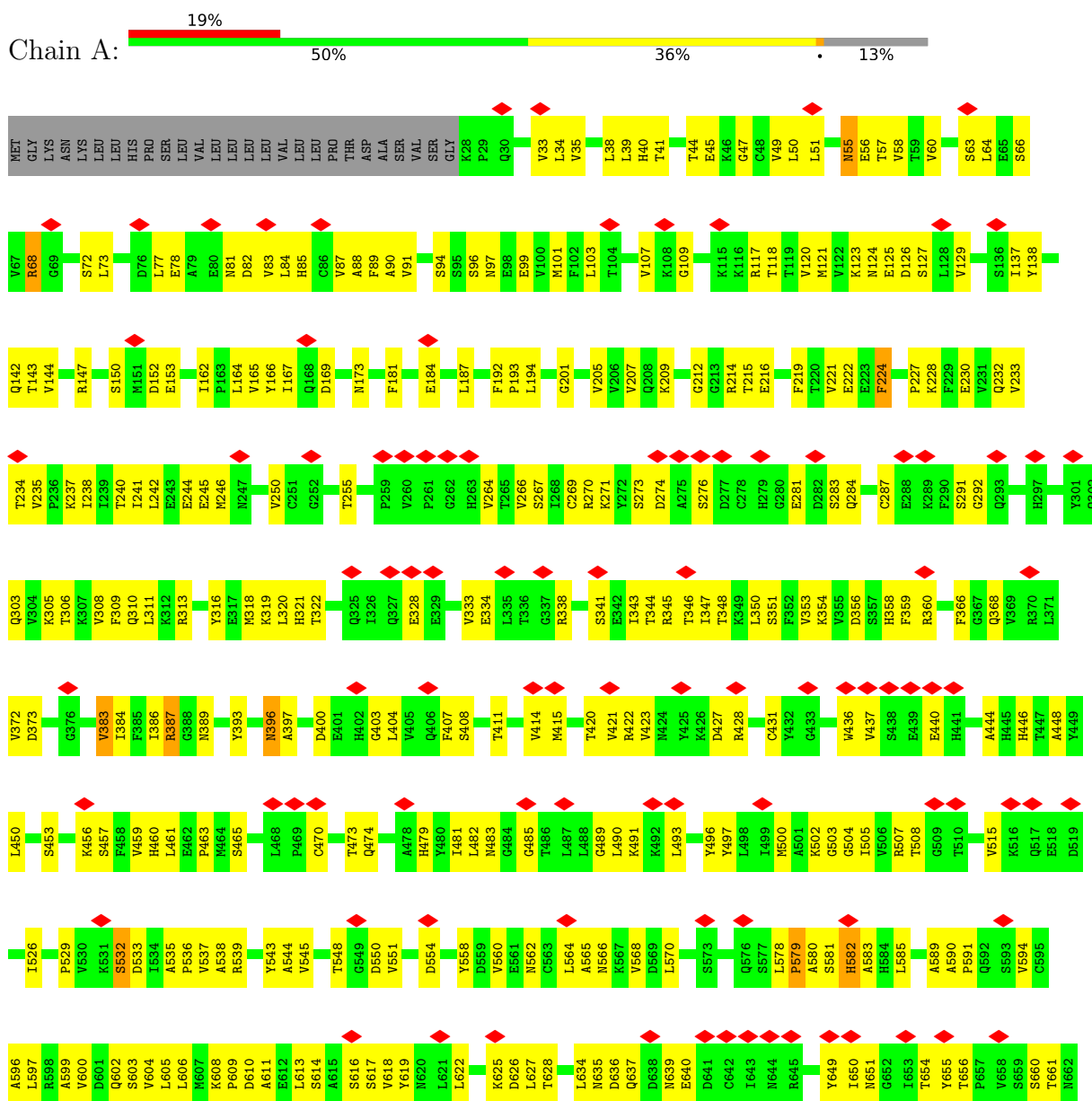
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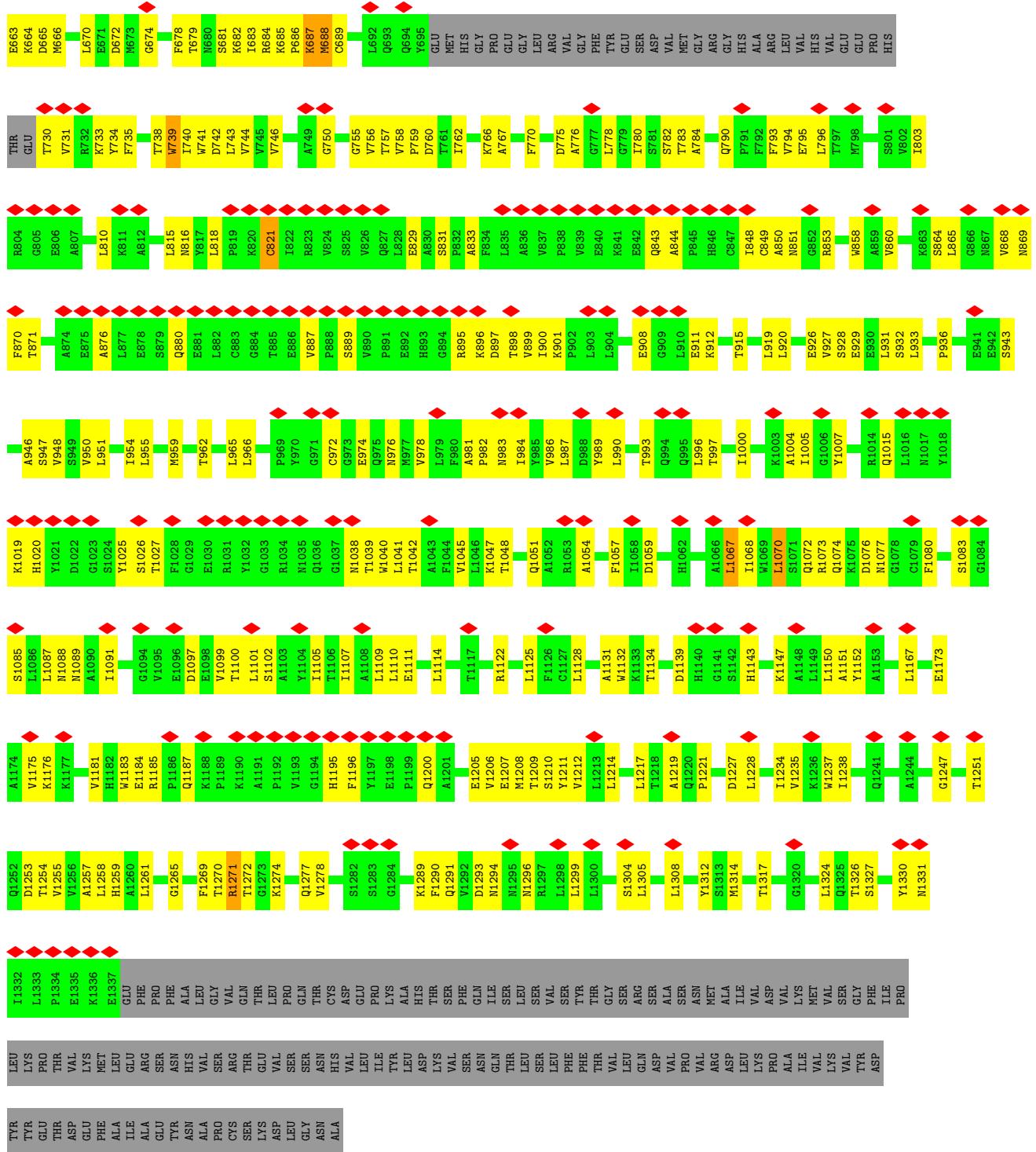
Mol	Chain	Residues	Atoms				AltConf
			Total	C	N	O	
5	A	1	Total 14	8	1	5	0
5	A	1	Total 14	8	1	5	0
5	A	1	Total 14	8	1	5	0
5	A	1	Total 14	8	1	5	0
5	B	1	Total 14	8	1	5	0
5	B	1	Total 14	8	1	5	0
5	B	1	Total 14	8	1	5	0
5	B	1	Total 14	8	1	5	0
5	B	1	Total 14	8	1	5	0
5	B	1	Total 14	8	1	5	0
5	C	1	Total 14	8	1	5	0
5	C	1	Total 14	8	1	5	0
5	C	1	Total 14	8	1	5	0
5	C	1	Total 14	8	1	5	0
5	C	1	Total 14	8	1	5	0
5	D	1	Total 14	8	1	5	0
5	D	1	Total 14	8	1	5	0
5	D	1	Total 14	8	1	5	0
5	D	1	Total 14	8	1	5	0
5	D	1	Total 14	8	1	5	0

3 Residue-property plots

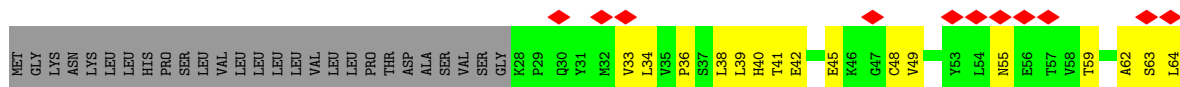
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map 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 diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). 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: Alpha-2-macroglobulin

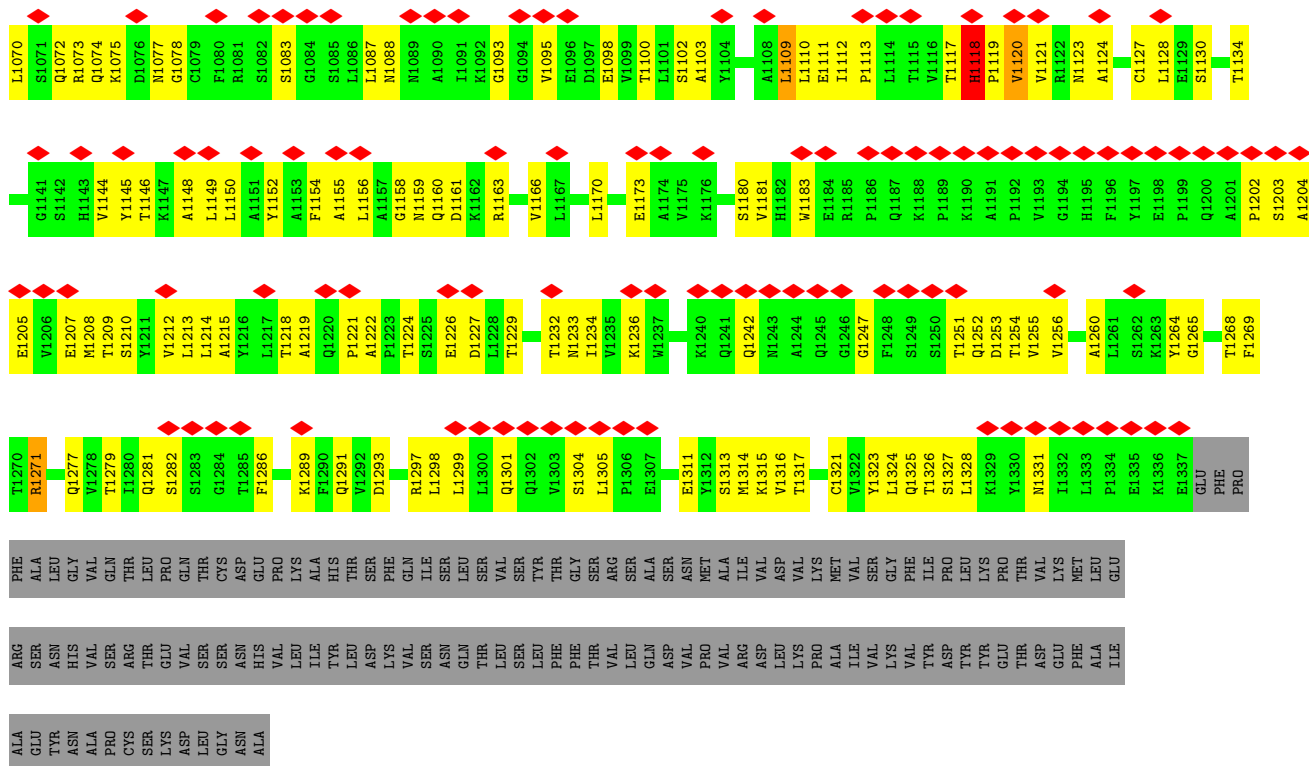




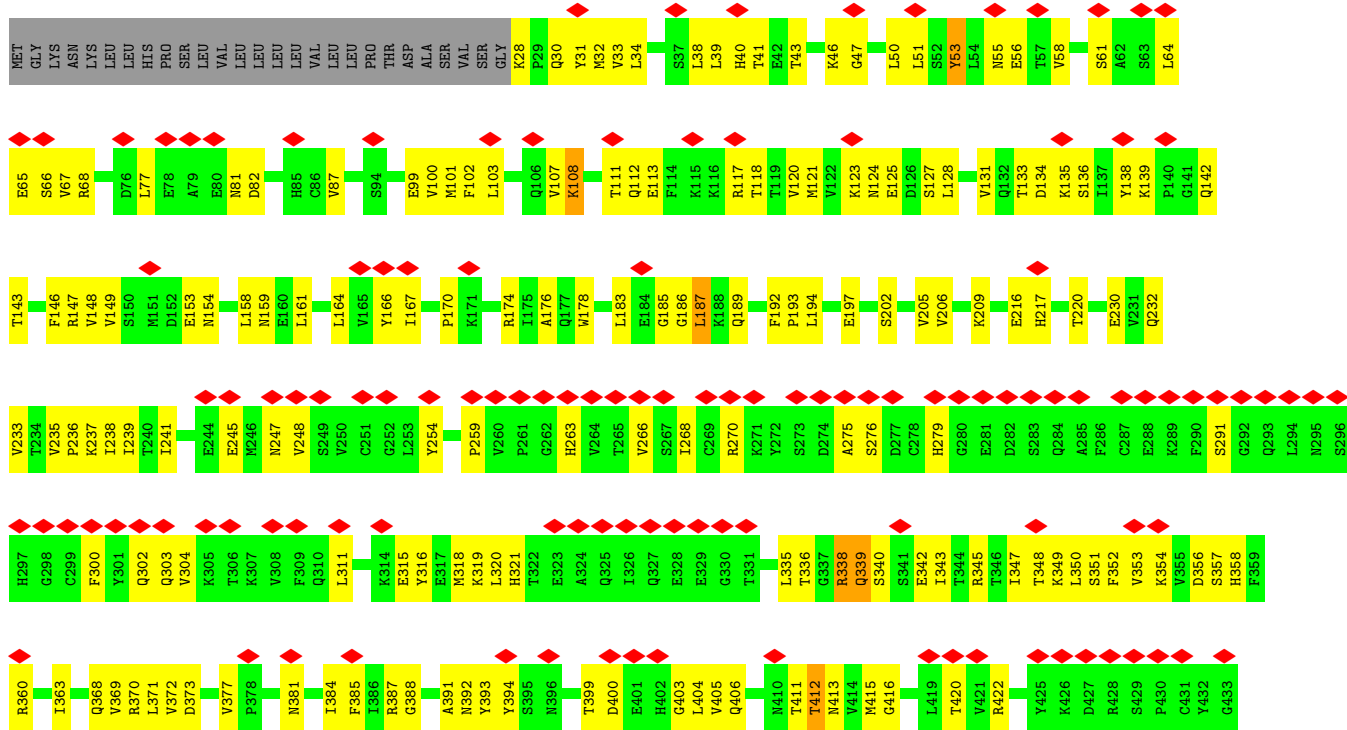
• Molecule 1: Alpha-2-macroglobulin







• Molecule 1: Alpha-2-macroglobulin

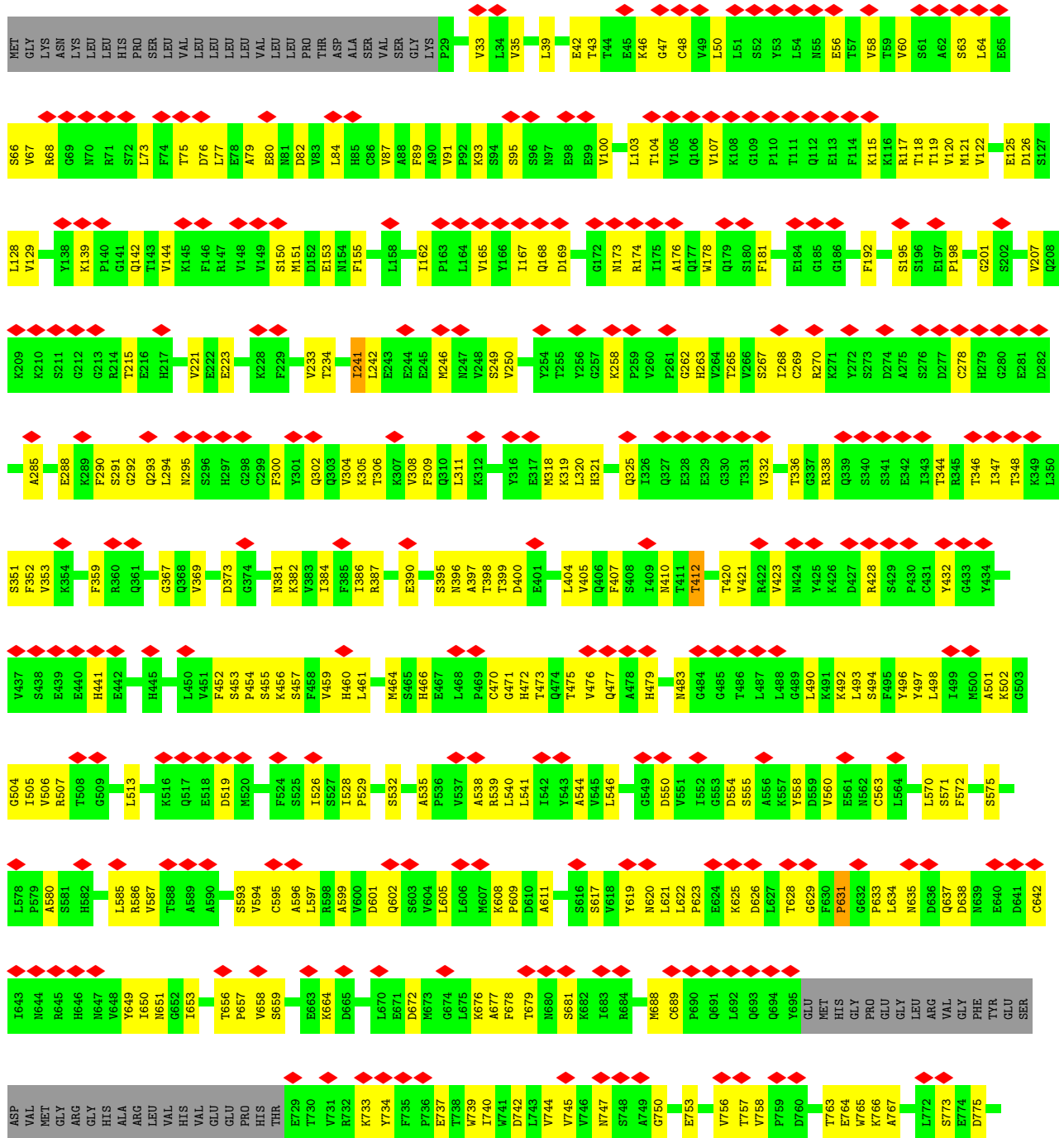


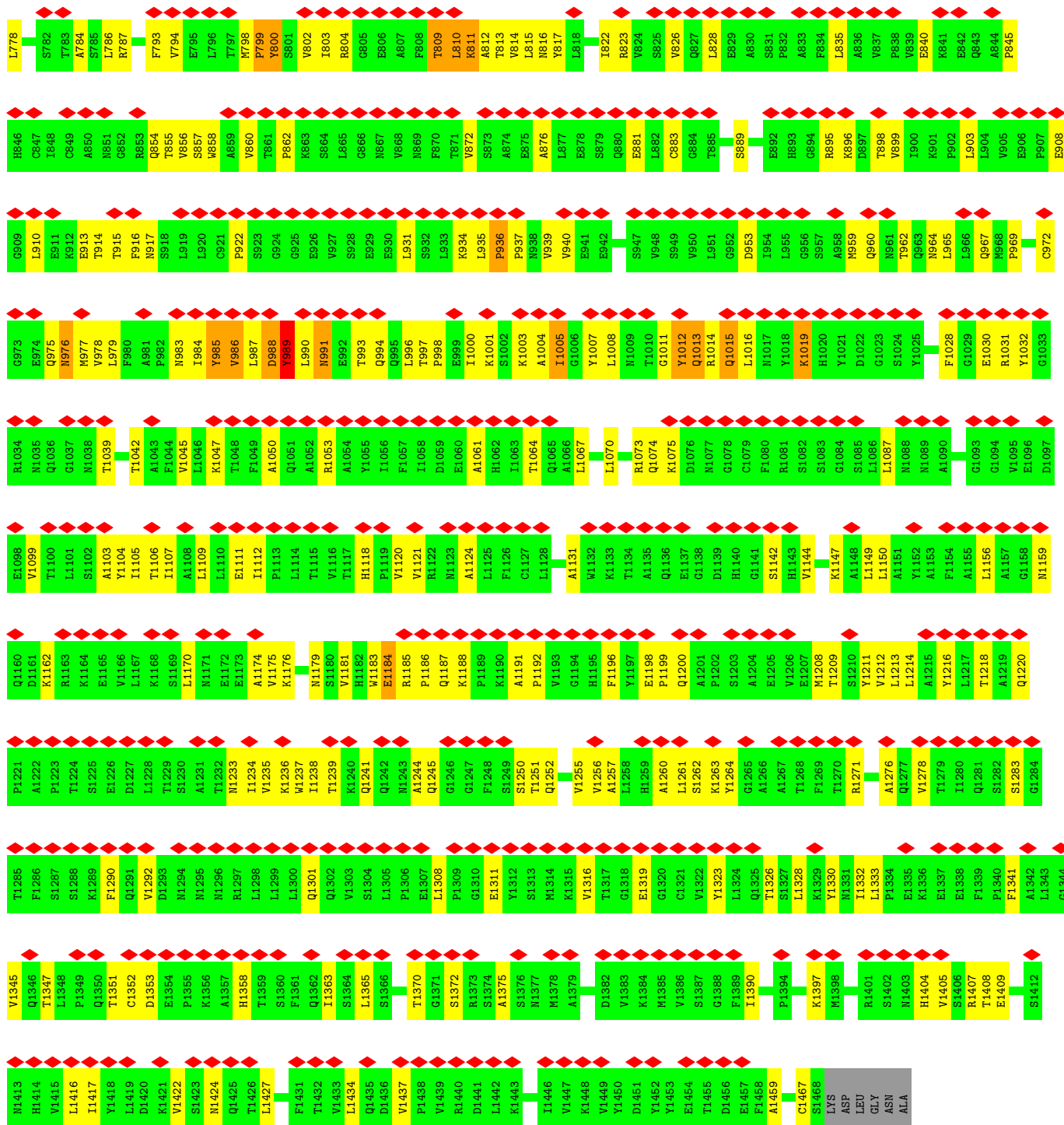
PHE	R1271	ALA	E1205	HI143	L1070	T993	L920	LEU	I653	S573	G503	Y434
ALA	T1272	LEU	V1206	V1144	S1071	Q994	Y927	VAL	T654	P574	G504	Q435
LEU	G1273	GLY	E1207	Y1145	Q1072	Q995	S928	VAL	Y655	HIS	I505	W436
VAL			M1208	L1146	D1076	L996	E929	VAL	T656	GLY	V506	W437
GLN	Q1277	GLN	T1209	K1147		I1000	E930	GLU	P657	THR	R507	S438
THR	V1278	LEU	S1210	A1148	G1084	K1001	I931	PRO	L658	LEU	H511	E439
LEU	T1279	LEU	S1211	L1149	S1085	S1002	S932	HIS	P579	THR	G512	E440
PRO	I1280	PRO	V1212	L1150	L1086	K1003	L933	THR	A580	GLU	L513	H441
GLN	Q1281	GLN	L1213	A1151	L1087	A1004	K934	THR	T661	GLU	L514	H442
THR	S1282	THR	L1213	A1151	L1087	A1004	K934	THR	H582	GLU	V515	E443
CYS	L1217	CYS	L1217	Y1152	M1088	I1005	L935	THR	E863	GLU	K516	A444
ASP	L1218	ASP	L1218	A1153	M1089	L1008	L936	THR	K664	GLU	Q517	A448
GLU	L1219	GLU	L1219	A1155	M1009	M1009	P937	THR	D665	GLU	K518	T449
PRO	Q1220	PRO	Q1220	L1156	I1091	I1010	N938	THR	M672	GLU	L450	L450
LEU	F1286	LEU	P1221	L1157	K1092	G1011	N939	THR	D673	GLU	D519	V451
ALA	S1287	ALA	A1222	G1158	G1093	Q1015	Y939	THR	G674	GLU	M520	
HIS	S1288	HIS	A1222	G1158	G1094	Q1015	Y940	THR	M675	GLU	F524	K456
THR	K1289	THR	M1159	M1159	V1095	Y1018	E942	THR	D677	GLU	S525	S457
SER	S1225	SER	S1225	Q1160	V1099	D1022	R945	THR	K676	GLU	I526	F458
GLN	E1226	GLN	E1226	D1161	T1100	G1023	A946	THR	A677	GLU	S527	V459
ILE	D1227	ILE	D1227	K1162	T1100	S1024	S947	THR	F678	GLU	I528	H460
SER	L1228	SER	L1228	R1163	L1101	S1024	S947	THR	T679	GLU	P529	L461
SER	T1229	SER	T1229	K1164	A1103	S1024	S948	THR	M680	GLU	V530	E462
LEU	S1230	LEU	S1230	F1165	Y1104	S1026	S949	THR	S681	GLU	K531	P463
SER	A1231	SER	A1231	F1166	Y1105	Y950	P950	THR	Q602	GLU	S532	M464
SER	T1232	SER	T1232	L1167	T1105	I1032	L951	THR	S603	GLU	I534	S465
THR	M1233	THR	M1233	K1168	T1106	Y1032	L951	THR	K608	GLU	A535	E467
THR	I1234	THR	I1234	S1169	L1107	R1031	G952	THR	S614	GLU	P536	L468
GLY	V1235	GLY	V1235	L1170	A1108	G1033	N959	THR	A615	GLU	V537	L468
SER	I1238	SER	I1238	M1171	L1109	R1034	Q960	THR	A616	GLU	A538	P469
ARG	T1239	ARG	T1239	E1172	L1110	G1037	T962	THR	S616	GLU	R539	C470
SER	L1240	SER	L1240	E1173	L1111	N1038	T962	THR	S617	GLU	L540	G471
ALA	P1306	ALA	P1306	A1174	P1113	M1038	Q963	THR	V618	GLU	L541	H472
ASN	L1308	ASN	L1308	A1174	L1114	T1039	R964	THR	Y619	GLU	I542	T473
MET	P1309	MET	P1309	V1175	T1115	W1040	L965	THR	N620	GLU	L546	Q474
ALA	G1310	ALA	G1310	K1176	T1117	M1040	L966	THR	E624	GLU	P547	T476
ILE	E1311	ILE	E1311	K1177	H1118	L1041	P969	THR	K625	GLU	T548	Q477
VAL	I1312	VAL	I1312	K1177	H1119	T1042	G971	THR	L627	GLU	G549	A478
ASP	V1314	ASP	V1314	V1181	V1120	A1043	G971	THR	T628	GLU	G553	H479
VAL	G1316	VAL	G1316	H1182	A1044	F1044	C972	THR	L629	GLU	D554	L481
LYS	L1320	LYS	L1320	W1183	V1045	L1046	C973	THR	A776	GLU	Y558	L482
MET	G1320	MET	G1320	F1184	L1125	L1046	G974	THR	L634	GLU	D559	M483
VAL	Y1323	VAL	Y1323	R1185	F1126	K1047	E974	THR	M635	GLU	V560	L488
GLY	L1324	GLY	L1324	P1186	C1127	T1048	Q975	THR	I643	GLU	N562	K491
PHE	Q1325	PHE	Q1325	Q1187	L1128	F1049	Q976	THR	M644	GLU	C563	L493
ILE	T1326	ILE	T1326	K1188	L1128	F1049	Q977	THR	R645	GLU	L564	S494
PRO	S1327	PRO	S1327	K1188	L1129	A1052	R976	THR	H646	GLU	A565	F496
LEU	L1328	LEU	L1328	P1189	A1130	R1053	R978	THR	H647	GLU	N566	Y496
LEU	V1255	LEU	V1255	K1190	A1131	I1056	R978	THR	N647	GLU	K567	L498
LYS	V1256	LYS	V1256	K1190	A1132	I1056	R978	THR	V648	GLU	V569	L499
PRO	L1266	PRO	L1266	A1191	W1132	F1057	P980	THR	I650	GLU	S571	M500
THR	A1257	THR	A1257	A1191	K1133	I1058	A981	THR	ALA	GLU	F572	K502
VAL	L1268	VAL	L1268	K1133	K1133	I1058	A981	THR	ARG	GLU		
LEU	H1259	LEU	H1259	G1194	Q1136	H1062	I984	THR	ASP	GLU		
PRO	A1260	PRO	A1260	H1195	E1137	I1063	I984	THR	VAL	GLU		
THR	L1261	THR	L1261	F1196	E1137	I1063	I984	THR	GLY	GLU		
LYS	S1262	LYS	S1262	Y1197	D1138	I1063	I984	THR	THR	GLU		
MET	K1263	MET	K1263	Y1197	H1140	I1063	I984	THR	ASP	GLU		
LEU	Y1264	LEU	Y1264	K1198	H1141	I1063	I984	THR	VAL	GLU		
LEU	G1265	LEU	G1265	E1198	G1141	I1066	I984	THR	ARG	GLU		
LEU	A1266	LEU	A1266	Q1200	S1142	A1066	I984	THR	ALA	GLU		
LEU	L1267	LEU	L1267	Q1201	E992			THR	ARG	GLU		
LEU	P1202	LEU	P1202	T914				THR	ARG	GLU		
LEU	S1203	LEU	S1203	T915				THR	ARG	GLU		
LEU	A1204	LEU	A1204	Q854				THR	ARG	GLU		
				W856				THR	ARG	GLU		
				S857				THR	ARG	GLU		

ARG SER ASN HIS VAL SER ARG THR GLU VAL SER SER ASN HIS VAL ILE TVR LEU ASP LYS VAL ASP VAL ASN GLN THR SER LEU PHE PHE THR VAL LEU GLN VAL ASP PRO VAL ARG ASP LYS PRO LYS VAL ILE VAL LYS TVR ASP TYR GLU THR ASP GLU PHE ALA ILE

ALA GLU TYR ASN ALA PRO CYS SER ASP ASP GLY ASN ALA

Molecule 1: Alpha-2-macroglobulin





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



◆
MAG1
MAG2

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

Chain G:  100%


MAG1
MAG2

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

Chain I:  50% 50% 50%


MAG1
MAG2

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

Chain K:  50% 50%


MAG1
MAG2

- Molecule 3: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain F:  33% 67% 33%


MAG1
MAG2
BMA3

- Molecule 3: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

Chain H:  33% 33% 33% 33%


MAG1
MAG2
BMA3

- Molecule 3: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose

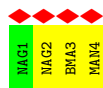
Chain J:  33% 67%


MAG1
MAG2
BMA3

- Molecule 3: beta-D-mannopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose-(1-4)-2-acetamido-2-deoxy-beta-D-glucopyranose



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



4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C1	Depositor
Number of particles used	466082	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	38.7	Depositor
Minimum defocus (nm)	1300	Depositor
Maximum defocus (nm)	3700	Depositor
Magnification	130000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.104	Depositor
Minimum map value	-0.003	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.003	Depositor
Recommended contour level	0.013	Depositor
Map size (\AA)	336.64, 336.64, 336.64	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (\AA)	1.052, 1.052, 1.052	Depositor

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: BMA, MAN, NAG

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	0.49	0/10179	0.74	4/13829 (0.0%)
1	B	0.42	0/10179	0.71	5/13829 (0.0%)
1	C	0.46	0/10188	0.74	5/13841 (0.0%)
1	D	0.39	0/11230	0.67	1/15261 (0.0%)
All	All	0.44	0/41776	0.71	15/56760 (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	D	0	1

There are no bond length outliers.

All (15) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
1	B	1120	VAL	CG1-CB-CG2	7.29	122.56	110.90
1	B	1120	VAL	CA-CB-CG2	7.28	121.82	110.90
1	D	989	TYR	CB-CA-C	-6.94	96.52	110.40
1	A	1070	LEU	CA-CB-CG	6.74	130.80	115.30
1	C	598	ARG	NE-CZ-NH1	6.25	123.42	120.30
1	B	277	ASP	CB-CG-OD1	6.15	123.83	118.30
1	B	1067	LEU	CA-CB-CG	5.95	129.00	115.30
1	B	1109	LEU	CA-CB-CG	5.92	128.92	115.30
1	A	796	LEU	CA-CB-CG	5.89	128.84	115.30
1	A	68	ARG	NE-CZ-NH1	5.82	123.21	120.30
1	A	1067	LEU	CA-CB-CG	5.66	128.32	115.30
1	C	1008	LEU	CA-CB-CG	5.54	128.05	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	128	LEU	CA-CB-CG	5.22	127.31	115.30
1	C	187	LEU	CA-CB-CG	5.15	127.15	115.30
1	C	488	LEU	CA-CB-CG	5.13	127.09	115.30

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	D	985	TYR	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	9958	0	9859	452	0
1	B	9958	0	9859	413	0
1	C	9967	0	9865	436	0
1	D	10985	0	10870	439	0
2	E	28	0	25	0	0
2	G	28	0	25	0	0
2	I	28	0	25	1	0
2	K	28	0	25	0	0
3	F	39	0	34	0	0
3	H	39	0	34	3	0
3	J	39	0	34	1	0
3	M	39	0	34	2	0
4	L	50	0	43	2	0
5	A	70	0	65	2	0
5	B	70	0	65	3	0
5	C	70	0	65	11	0
5	D	70	0	65	1	0
All	All	41466	0	40992	1717	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 21.

All (1717) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1118:HIS:ND1	1:B:1119:PRO:HD2	1.49	1.26
1:B:1118:HIS:HB2	1:B:1119:PRO:HD3	1.24	1.11
1:B:1118:HIS:ND1	1:B:1119:PRO:CD	2.20	1.03
1:B:101:MET:HG3	1:B:122:VAL:HG13	1.36	1.03
1:B:1118:HIS:CB	1:B:1119:PRO:HD3	1.90	1.01
1:D:989:TYR:HA	1:D:1262:SER:HB3	1.41	1.01
3:H:2:NAG:H3	3:H:2:NAG:H83	1.42	0.99
1:D:1185:ARG:HB3	1:D:1186:PRO:HD2	1.47	0.96
1:B:39:LEU:HB2	1:B:122:VAL:HG12	1.49	0.93
1:D:914:THR:HG21	1:D:935:LEU:HD22	1.49	0.93
1:B:950:VAL:HG13	1:B:1324:LEU:HD11	1.51	0.92
1:A:954:ILE:HD11	1:A:993:THR:HG22	1.51	0.90
1:D:1013:GLN:HA	1:D:1013:GLN:HE21	1.38	0.89
1:A:387:ARG:HB2	1:A:420:THR:HG23	1.54	0.89
1:A:1181:VAL:HG23	1:A:1234:ILE:HG23	1.56	0.87
1:D:990:LEU:HG	1:D:998:PRO:HB3	1.57	0.86
1:C:136:SER:HB2	1:C:608:LYS:HD3	1.54	0.86
1:B:1118:HIS:HB2	1:B:1119:PRO:CD	2.05	0.85
1:D:1175:VAL:HG21	1:D:1186:PRO:HD3	1.56	0.85
1:C:254:TYR:O	1:C:787:ARG:NH2	2.11	0.84
1:D:1000:ILE:HG23	1:D:1001:LYS:HD2	1.60	0.84
1:C:1047:LYS:NZ	1:C:1211:TYR:OH	2.10	0.84
1:B:1118:HIS:CB	1:B:1119:PRO:CD	2.56	0.84
1:C:108:LYS:HE2	1:C:108:LYS:HA	1.59	0.83
1:B:153:GLU:O	1:B:502:LYS:NZ	2.11	0.83
1:B:62:ALA:HB1	1:B:103:LEU:HD11	1.59	0.83
1:C:394:TYR:O	5:C:2004:NAG:O6	1.97	0.82
1:C:1152:TYR:OH	1:C:1263:LYS:NZ	2.13	0.82
1:C:637:GLN:O	1:C:684:ARG:NH2	2.13	0.81
1:A:153:GLU:O	1:A:502:LYS:NZ	2.11	0.81
1:C:39:LEU:HD12	1:C:120:VAL:HG11	1.62	0.81
1:A:581:SER:O	1:A:756:VAL:HA	1.81	0.80
1:D:597:LEU:HD11	1:D:744:VAL:HG13	1.61	0.80
1:A:1067:LEU:HD12	1:A:1070:LEU:HD12	1.62	0.79
1:B:1103:ALA:HB3	1:B:1149:LEU:HD23	1.62	0.79
1:C:135:LYS:NZ	1:C:738:THR:OG1	2.15	0.79
1:B:45:GLU:N	1:B:89:PHE:O	2.16	0.79
1:B:354:LYS:NZ	1:B:463:PRO:O	2.15	0.79
1:D:507:ARG:NH2	1:D:529:PRO:O	2.17	0.78
1:C:576:GLN:NE2	1:C:580:ALA:O	2.17	0.78
1:A:420:THR:OG1	1:A:422:ARG:NH1	2.17	0.78
1:B:912:LYS:NZ	1:B:913:GLU:O	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:571:SER:N	1:C:586:ARG:O	2.16	0.78
1:A:507:ARG:NH1	1:A:529:PRO:O	2.16	0.78
1:C:394:TYR:HD2	5:C:2004:NAG:C6	1.96	0.78
1:B:350:LEU:N	1:B:442:GLU:OE1	2.17	0.77
1:A:1038:ASN:ND2	1:A:1083:SER:O	2.18	0.77
1:C:394:TYR:HD2	5:C:2004:NAG:O6	1.67	0.77
1:A:1122:ARG:NH1	1:C:65:GLU:OE1	2.18	0.77
1:C:319:LYS:NZ	1:C:340:SER:OG	2.13	0.77
1:B:1118:HIS:CG	1:B:1119:PRO:HD3	2.20	0.77
1:A:1278:VAL:O	1:A:1289:LYS:NZ	2.18	0.76
1:D:1179:ASN:ND2	1:D:1233:ASN:O	2.18	0.76
1:A:73:LEU:HD12	1:A:91:VAL:HG22	1.66	0.76
1:D:457:SER:OG	1:D:483:ASN:OD1	2.01	0.76
1:B:1077:ASN:O	1:D:117:ARG:N	2.19	0.76
1:A:539:ARG:NH1	1:A:672:ASP:O	2.18	0.76
1:B:966:LEU:HD13	1:B:1000:ILE:HD11	1.67	0.76
1:C:392:ASN:OD1	1:C:413:ASN:ND2	2.19	0.76
1:A:232:GLN:OE1	1:A:338:ARG:NH1	2.18	0.75
1:A:1070:LEU:HD11	1:A:1109:LEU:HD21	1.68	0.75
1:C:507:ARG:NH1	1:C:529:PRO:O	2.19	0.75
1:C:590:ALA:O	1:C:593:SER:OG	2.01	0.75
1:B:1111:GLU:OE2	1:B:1152:TYR:OH	2.04	0.75
1:C:64:LEU:HD13	1:C:103:LEU:HD13	1.68	0.75
1:B:1299:LEU:O	1:B:1301:GLN:NE2	2.20	0.75
1:C:624:GLU:HB3	1:C:627:LEU:HD12	1.69	0.75
1:B:1072:GLN:OE1	1:D:635:ASN:N	2.19	0.75
1:C:915:THR:OG1	1:C:1326:THR:O	2.05	0.75
1:D:953:ASP:O	1:D:1264:TYR:OH	2.05	0.75
1:A:147:ARG:NH2	1:A:742:ASP:O	2.20	0.74
1:B:1118:HIS:CG	1:B:1119:PRO:CD	2.70	0.74
1:D:1179:ASN:ND2	1:D:1233:ASN:OD1	2.20	0.74
1:B:816:ASN:O	1:B:851:ASN:N	2.20	0.74
1:B:637:GLN:OE1	1:B:684:ARG:NH1	2.20	0.74
1:D:493:LEU:HD21	1:D:544:ALA:HB1	1.68	0.74
1:D:626:ASP:OD1	1:D:628:THR:OG1	2.06	0.74
1:B:94:SER:OG	1:B:96:SER:O	2.06	0.73
1:A:313:ARG:N	1:B:274:ASP:OD2	2.20	0.73
1:C:46:LYS:NZ	1:C:533:ASP:OD2	2.21	0.73
1:D:267:SER:OG	1:D:269:CYS:SG	2.46	0.73
1:C:101:MET:O	1:C:120:VAL:N	2.21	0.73
1:A:1272:THR:O	1:A:1274:LYS:NZ	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:66:SER:OG	1:C:100:VAL:O	2.06	0.73
1:D:501:ALA:N	1:D:504:GLY:O	2.21	0.73
1:D:978:VAL:O	1:D:1252:GLN:NE2	2.21	0.73
1:D:1283:SER:N	1:D:1311:GLU:OE2	2.21	0.73
1:A:96:SER:O	1:A:124:ASN:ND2	2.21	0.73
1:B:1072:GLN:O	1:B:1074:GLN:N	2.22	0.73
1:A:926:GLU:OE2	1:A:928:SER:OG	2.03	0.73
1:C:986:VAL:HG22	1:C:1258:LEU:HD13	1.69	0.73
1:A:356:ASP:O	1:A:446:HIS:NE2	2.22	0.73
1:A:978:VAL:HG13	1:A:1251:THR:HG21	1.71	0.72
1:A:829:GLU:O	1:A:871:THR:OG1	2.08	0.72
1:A:1005:ILE:HD13	1:C:1057:PHE:CE1	2.24	0.72
1:B:169:ASP:N	1:B:173:ASN:O	2.22	0.72
1:B:276:SER:OG	1:B:278:CYS:O	2.05	0.72
1:C:847:CYS:N	1:C:854:GLN:OE1	2.21	0.72
1:B:955:LEU:HB2	1:B:1298:LEU:HD13	1.72	0.72
1:D:622:LEU:O	1:D:625:LYS:NZ	2.17	0.72
1:B:101:MET:O	1:B:120:VAL:N	2.23	0.72
1:A:1235:VAL:HG22	1:A:1261:LEU:HD23	1.71	0.71
1:C:259:PRO:O	1:C:817:TYR:OH	2.08	0.71
1:A:45:GLU:N	1:A:89:PHE:O	2.23	0.71
1:A:581:SER:HB2	1:A:756:VAL:HG13	1.72	0.71
1:A:1099:VAL:O	1:A:1102:SER:OG	2.06	0.71
1:B:321:HIS:ND1	1:B:334:GLU:OE2	2.24	0.71
1:B:1075:LYS:O	1:D:118:THR:OG1	2.06	0.71
1:C:1100:THR:HG22	1:C:1149:LEU:HD23	1.71	0.71
1:D:201:GLY:N	1:D:221:VAL:O	2.23	0.71
1:B:1098:GLU:O	1:B:1102:SER:OG	2.07	0.71
1:C:635:ASN:OD1	1:C:636:ASP:N	2.23	0.71
1:C:415:MET:SD	1:C:416:GLY:N	2.64	0.71
1:D:139:LYS:NZ	1:D:142:GLN:OE1	2.22	0.71
1:B:1277:GLN:N	1:B:1317:THR:O	2.24	0.71
1:D:594:VAL:HG12	1:D:745:VAL:HG22	1.73	0.71
1:D:1159:ASN:O	1:D:1162:LYS:NZ	2.23	0.71
1:A:931:LEU:HD11	1:A:933:LEU:HD21	1.73	0.70
1:A:976:ASN:ND2	1:A:1015:GLN:OE1	2.24	0.70
1:C:473:THR:OG1	1:C:528:ILE:O	2.09	0.70
1:C:394:TYR:CD2	5:C:2004:NAG:O6	2.43	0.70
1:D:580:ALA:O	1:D:757:THR:OG1	2.08	0.70
1:C:205:VAL:O	1:C:217:HIS:N	2.24	0.70
1:D:739:TRP:NE1	1:D:756:VAL:O	2.25	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1073:ARG:O	1:D:1075:LYS:NZ	2.25	0.70
1:D:1236:LYS:O	1:D:1239:THR:OG1	2.09	0.70
1:D:1050:ALA:O	1:D:1053:ARG:NH1	2.25	0.69
1:A:125:GLU:N	1:A:125:GLU:OE1	2.25	0.69
1:A:1183:TRP:CE3	1:A:1209:THR:HG22	2.27	0.69
1:C:1277:GLN:NE2	1:C:1291:GLN:OE1	2.24	0.69
1:A:570:LEU:HD21	1:A:784:ALA:HB2	1.74	0.69
1:B:657:PRO:O	1:C:656:THR:OG1	2.10	0.69
1:B:1019:LYS:NZ	1:B:1020:HIS:O	2.24	0.69
1:D:812:ALA:N	1:D:856:VAL:O	2.25	0.69
1:B:929:GLU:O	1:B:1314:MET:N	2.26	0.69
1:A:954:ILE:CD1	1:A:993:THR:HG22	2.21	0.69
1:C:153:GLU:O	1:C:502:LYS:NZ	2.24	0.69
1:C:183:LEU:HD13	1:C:186:GLY:HA2	1.74	0.69
1:C:354:LYS:NZ	1:C:463:PRO:O	2.25	0.69
1:C:373:ASP:N	1:C:377:VAL:O	2.26	0.69
1:C:949:SER:N	1:C:1325:GLN:O	2.25	0.69
1:C:1070:LEU:HD13	1:C:1109:LEU:HD21	1.73	0.69
1:D:412:THR:O	1:D:412:THR:HG22	1.91	0.69
1:D:1175:VAL:CG2	1:D:1186:PRO:HD3	2.21	0.69
1:A:414:VAL:HG12	1:D:651:ASN:HB3	1.75	0.69
1:B:911:GLU:OE2	1:B:1331:ASN:ND2	2.26	0.69
1:D:555:SER:N	1:D:672:ASP:OD2	2.26	0.69
1:A:400:ASP:OD1	1:A:404:LEU:N	2.26	0.69
1:C:320:LEU:O	1:C:321:HIS:ND1	2.27	0.68
1:D:965:LEU:HD13	1:D:1000:ILE:HD11	1.75	0.68
1:A:1205:GLU:HG3	1:A:1206:VAL:HG23	1.74	0.68
1:B:1073:ARG:O	1:D:637:GLN:NE2	2.26	0.68
1:C:111:THR:HB	5:C:2001:NAG:H2	1.73	0.68
1:B:1291:GLN:NE2	1:B:1293:ASP:OD1	2.26	0.68
1:C:851:ASN:O	1:C:853:ARG:NH1	2.27	0.68
1:D:800:TYR:O	1:D:802:VAL:HG13	1.94	0.68
1:A:876:ALA:O	1:A:895:ARG:NH2	2.26	0.68
1:A:635:ASN:OD1	1:C:1072:GLN:NE2	2.25	0.68
1:A:775:ASP:OD1	1:A:776:ALA:N	2.27	0.68
1:A:1152:TYR:CZ	1:A:1214:LEU:HD22	2.29	0.68
1:B:295:ASN:ND2	1:B:297:HIS:O	2.27	0.68
1:B:345:ARG:O	1:B:440:GLU:N	2.27	0.68
1:B:602:GLN:N	1:B:764:GLU:O	2.27	0.68
1:B:1109:LEU:HD21	1:B:1120:VAL:HB	1.75	0.68
1:B:1120:VAL:HA	1:D:119:THR:HG21	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1265:GLY:O	1:A:1269:PHE:N	2.27	0.67
1:B:389:ASN:ND2	1:B:418:SER:O	2.27	0.67
1:B:883:CYS:SG	1:B:884:GLY:N	2.66	0.67
1:B:1298:LEU:HD23	1:B:1298:LEU:O	1.94	0.67
1:D:631:PRO:HB2	1:D:634:LEU:HD13	1.75	0.67
1:D:773:SER:OG	1:D:775:ASP:OD1	2.09	0.67
1:C:394:TYR:CD2	5:C:2004:NAG:C6	2.77	0.67
1:C:53:TYR:N	1:C:81:ASN:OD1	2.27	0.67
1:C:230:GLU:OE2	1:C:232:GLN:NE2	2.26	0.67
1:C:594:VAL:HG23	1:C:745:VAL:HG22	1.75	0.67
1:C:773:SER:N	1:C:777:GLY:O	2.27	0.67
1:D:1013:GLN:HA	1:D:1013:GLN:NE2	2.08	0.67
1:D:1185:ARG:HB3	1:D:1186:PRO:CD	2.21	0.67
1:A:962:THR:HG21	1:A:989:TYR:CE2	2.30	0.67
1:C:497:TYR:HB3	1:C:542:ILE:HD12	1.76	0.67
1:A:1125:LEU:HD23	1:A:1128:LEU:HD12	1.77	0.67
1:A:450:LEU:O	1:A:664:LYS:N	2.27	0.67
1:A:1238:ILE:HD12	1:A:1257:ALA:HB1	1.77	0.67
1:B:112:GLN:HB2	5:B:2001:NAG:H83	1.76	0.67
1:B:968:MET:HG3	1:B:969:PRO:HD2	1.77	0.67
1:C:808:PHE:O	1:C:860:VAL:N	2.27	0.67
1:C:1103:ALA:O	1:C:1107:ILE:HG22	1.95	0.67
1:D:988:ASP:OD1	1:D:988:ASP:N	2.28	0.67
1:C:136:SER:O	1:C:220:THR:OG1	2.10	0.66
1:A:1041:LEU:O	1:A:1045:VAL:HG23	1.95	0.66
3:M:1:NAG:H62	3:M:2:NAG:HN2	1.60	0.66
1:C:38:LEU:HD12	1:C:121:MET:CE	2.25	0.66
1:C:381:ASN:N	1:C:399:THR:OG1	2.28	0.66
1:C:170:PRO:HG3	1:C:202:SER:O	1.95	0.66
1:A:1107:ILE:HA	1:A:1110:LEU:HD12	1.78	0.66
1:A:428:ARG:NH2	1:A:440:GLU:OE2	2.29	0.66
1:B:101:MET:N	1:B:120:VAL:O	2.29	0.66
1:D:563:CYS:O	1:D:619:TYR:OH	2.12	0.66
1:A:581:SER:CB	1:A:756:VAL:HG13	2.26	0.66
1:A:688:MET:HE3	1:A:688:MET:H	1.59	0.66
1:A:929:GLU:O	1:A:1314:MET:N	2.29	0.66
1:B:736:PRO:C	1:B:738:THR:H	2.00	0.66
1:C:388:GLY:CA	1:C:391:ALA:HB3	2.26	0.66
1:A:578:LEU:O	1:A:580:ALA:N	2.27	0.66
1:A:986:VAL:HG12	1:A:990:LEU:HD13	1.78	0.66
1:B:593:SER:O	1:B:745:VAL:HG13	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1282:SER:OG	1:B:1286:PHE:O	2.11	0.66
1:C:103:LEU:HD23	1:C:118:THR:HG23	1.78	0.66
1:C:492:LYS:NZ	1:C:494:SER:OG	2.28	0.66
1:C:1232:THR:HG21	1:C:1323:TYR:CD2	2.31	0.66
1:D:93:LYS:NZ	1:D:125:GLU:O	2.23	0.66
1:A:68:ARG:NH1	1:C:1113:PRO:O	2.28	0.66
1:B:1180:SER:OG	1:B:1181:VAL:N	2.29	0.66
1:C:1109:LEU:HD13	1:C:1112:ILE:HD11	1.78	0.66
1:D:399:THR:OG1	1:D:400:ASP:O	2.13	0.65
1:D:452:PHE:O	1:D:454:PRO:HD3	1.97	0.65
1:A:688:MET:H	1:A:688:MET:CE	2.08	0.65
1:B:428:ARG:NE	1:B:439:GLU:O	2.29	0.65
1:D:400:ASP:OD1	1:D:404:LEU:N	2.28	0.65
1:C:38:LEU:HD12	1:C:121:MET:HE3	1.79	0.65
1:C:965:LEU:HD13	1:C:1247:GLY:N	2.12	0.65
1:D:1016:LEU:HD23	1:D:1016:LEU:C	2.17	0.65
1:D:571:SER:O	1:D:586:ARG:N	2.29	0.65
1:B:350:LEU:HD11	1:B:444:ALA:HB2	1.79	0.65
1:B:928:SER:OG	1:B:1314:MET:O	2.14	0.65
1:B:1163:ARG:NH2	1:B:1215:ALA:O	2.28	0.65
1:C:1070:LEU:CD1	1:C:1109:LEU:HD21	2.27	0.65
1:D:64:LEU:HD23	1:D:100:VAL:HG22	1.76	0.65
1:D:1070:LEU:O	1:D:1074:GLN:N	2.29	0.65
1:D:1200:GLN:NE2	1:D:1375:ALA:O	2.29	0.65
1:A:965:LEU:HD11	1:A:1247:GLY:N	2.12	0.65
1:B:1073:ARG:O	1:B:1074:GLN:NE2	2.30	0.65
1:D:747:ASN:OD1	1:D:750:GLY:N	2.30	0.65
1:C:38:LEU:HD13	1:C:627:LEU:HD21	1.78	0.65
1:C:1025:TYR:HB2	1:C:1042:THR:HG22	1.79	0.65
1:B:400:ASP:OD1	1:B:404:LEU:N	2.30	0.64
1:D:539:ARG:NE	1:D:626:ASP:OD2	2.29	0.64
1:A:843:GLN:NE2	1:A:844:ALA:O	2.30	0.64
1:B:1236:LYS:NZ	1:B:1325:GLN:OE1	2.29	0.64
1:C:966:LEU:HD11	1:C:1000:ILE:HD11	1.79	0.64
1:A:864:SER:OG	1:A:865:LEU:N	2.30	0.64
1:A:912:LYS:O	1:A:1330:TYR:N	2.29	0.64
1:C:1208:MET:O	1:C:1212:VAL:HG23	1.96	0.64
1:D:470:CYS:SG	1:D:471:GLY:N	2.71	0.64
1:B:1152:TYR:CE1	1:B:1156:LEU:HD23	2.33	0.64
1:D:233:VAL:HG23	1:D:250:VAL:HG22	1.79	0.64
1:A:564:LEU:HD21	1:A:780:ILE:HD13	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:64:LEU:HD12	1:C:102:PHE:O	1.97	0.64
1:C:143:THR:HG22	1:C:193:PRO:HB3	1.80	0.64
1:C:237:LYS:O	1:C:238:ILE:HD13	1.98	0.64
1:D:983:ASN:HB3	1:D:1008:LEU:HD21	1.79	0.64
1:D:1005:ILE:HA	1:D:1008:LEU:HD12	1.80	0.64
1:B:1038:ASN:O	1:B:1042:THR:OG1	2.15	0.64
1:C:497:TYR:HD1	1:C:499:ILE:HD11	1.63	0.64
1:D:129:VAL:HG23	1:D:215:THR:HG21	1.80	0.64
1:A:532:SER:OG	1:A:565:ALA:N	2.31	0.63
1:D:764:GLU:OE2	1:D:786:LEU:N	2.31	0.63
1:A:1040:TRP:HB2	1:A:1101:LEU:HD11	1.79	0.63
1:C:64:LEU:HD11	1:C:120:VAL:HB	1.80	0.63
1:C:388:GLY:N	1:C:393:TYR:O	2.31	0.63
1:A:39:LEU:N	1:A:121:MET:O	2.31	0.63
1:A:538:ALA:O	1:A:558:TYR:N	2.30	0.63
1:B:270:ARG:NH2	1:B:315:GLU:O	2.30	0.63
1:B:507:ARG:NH2	1:B:532:SER:O	2.31	0.63
1:A:276:SER:OG	1:A:281:GLU:OE1	2.15	0.63
1:A:284:GLN:NE2	1:A:287:CYS:SG	2.71	0.63
1:A:947:SER:OG	1:A:1327:SER:OG	2.16	0.63
1:C:158:LEU:HD12	1:C:159:ASN:H	1.62	0.63
1:D:367:GLY:N	1:D:407:PHE:O	2.31	0.63
1:D:1372:SER:HB2	1:D:1422:VAL:HG13	1.79	0.63
1:A:305:LYS:HE3	1:A:308:VAL:HG23	1.81	0.63
1:C:101:MET:N	1:C:120:VAL:O	2.31	0.63
1:C:412:THR:HG22	1:C:412:THR:O	1.99	0.63
1:C:594:VAL:CG2	1:C:745:VAL:HG22	2.28	0.63
1:C:1100:THR:HG21	1:C:1145:TYR:CD2	2.33	0.63
1:C:1110:LEU:HD22	1:C:1116:VAL:HG12	1.80	0.63
1:D:599:ALA:HB3	1:D:740:ILE:HG13	1.80	0.63
1:A:637:GLN:O	1:A:684:ARG:NH1	2.31	0.63
1:A:1139:ASP:O	1:A:1143:HIS:NE2	2.31	0.63
1:C:39:LEU:CD1	1:C:120:VAL:HG11	2.29	0.63
1:C:982:PRO:O	1:C:986:VAL:HG23	1.99	0.63
1:C:917:ASN:ND2	1:C:1323:TYR:OH	2.31	0.63
1:A:60:VAL:HG23	1:A:107:VAL:HG23	1.81	0.62
1:B:253:LEU:HD21	1:B:606:LEU:HD21	1.80	0.62
1:C:235:VAL:HG12	1:C:236:PRO:HD2	1.81	0.62
1:C:1105:ILE:O	1:C:1109:LEU:HD23	1.99	0.62
1:A:400:ASP:OD1	1:A:403:GLY:N	2.32	0.62
1:D:816:ASN:OD1	1:D:817:TYR:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1099:VAL:HG11	1:D:1131:ALA:HB2	1.81	0.62
1:D:1186:PRO:O	1:D:1188:LYS:HD3	1.98	0.62
1:A:1076:ASP:OD1	1:A:1077:ASN:N	2.32	0.62
1:D:810:LEU:HD13	1:D:860:VAL:HG12	1.81	0.62
1:B:33:VAL:HG12	1:B:49:VAL:HG23	1.81	0.62
1:D:258:LYS:NZ	1:D:815:LEU:HD21	2.14	0.62
1:D:964:ASN:ND2	1:D:1244:ALA:O	2.31	0.62
1:A:224:PHE:CE1	1:A:604:VAL:HG11	2.35	0.62
1:C:564:LEU:HD13	1:C:619:TYR:OH	2.00	0.62
1:C:592:GLN:OE1	1:C:748:SER:OG	2.18	0.62
1:A:321:HIS:ND1	1:A:334:GLU:OE2	2.31	0.62
1:B:264:VAL:HG21	1:B:300:PHE:CE2	2.34	0.62
1:C:1208:MET:O	1:C:1212:VAL:N	2.32	0.62
1:B:571:SER:N	1:B:586:ARG:O	2.32	0.62
1:B:590:ALA:HB2	1:B:776:ALA:HB3	1.81	0.62
1:A:1088:ASN:HD21	1:A:1091:ILE:HD12	1.65	0.62
1:B:295:ASN:ND2	1:B:299:CYS:O	2.32	0.62
1:C:345:ARG:O	1:C:440:GLU:N	2.32	0.62
1:D:914:THR:CG2	1:D:935:LEU:HD22	2.26	0.62
1:D:965:LEU:O	1:D:967:GLN:NE2	2.32	0.62
1:D:989:TYR:CA	1:D:1262:SER:HB3	2.23	0.62
3:H:2:NAG:H83	3:H:2:NAG:C3	2.21	0.62
1:A:291:SER:OG	1:A:292:GLY:N	2.33	0.61
1:A:359:PHE:CZ	1:A:450:LEU:HD23	2.34	0.61
1:B:1044:PHE:HZ	1:B:1255:VAL:HG21	1.64	0.61
1:B:1154:PHE:O	1:B:1158:GLY:N	2.32	0.61
1:C:1099:VAL:HG13	1:C:1131:ALA:HB1	1.82	0.61
1:A:368:GLN:HG2	1:A:404:LEU:HD22	1.81	0.61
1:B:141:GLY:N	1:B:195:SER:O	2.33	0.61
1:C:133:THR:HG22	1:C:146:PHE:HB2	1.82	0.61
1:A:250:VAL:HG11	1:A:264:VAL:HG21	1.83	0.61
1:A:532:SER:OG	1:A:533:ASP:N	2.32	0.61
1:A:915:THR:OG1	1:A:1326:THR:O	2.10	0.61
1:C:138:TYR:HD2	1:C:142:GLN:HB3	1.64	0.61
1:C:235:VAL:HG12	1:C:236:PRO:CD	2.30	0.61
1:C:502:LYS:HB2	1:C:535:ALA:HB2	1.83	0.61
1:D:50:LEU:HD23	1:D:84:LEU:HD21	1.82	0.61
1:D:476:VAL:HB	1:D:526:ILE:HG23	1.82	0.61
1:A:138:TYR:CZ	1:A:144:VAL:HG23	2.36	0.61
1:A:626:ASP:O	1:A:628:THR:HG22	2.01	0.61
1:A:870:PHE:N	1:A:901:LYS:O	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:352:PHE:CZ	1:B:444:ALA:HB1	2.36	0.61
1:B:1155:ALA:HB1	1:B:1218:THR:OG1	2.01	0.61
1:A:636:ASP:O	1:C:1072:GLN:NE2	2.34	0.61
1:A:650:ILE:HD12	1:A:656:THR:CG2	2.30	0.61
1:B:382:LYS:O	1:B:399:THR:HG23	2.01	0.61
1:C:159:ASN:OD1	1:C:186:GLY:N	2.34	0.61
1:C:1292:VAL:HA	1:C:1296:ASN:HD21	1.66	0.61
1:D:470:CYS:O	1:D:472:HIS:ND1	2.33	0.61
1:D:969:PRO:HD3	1:D:979:LEU:HD11	1.81	0.60
1:D:318:MET:O	1:D:319:LYS:NZ	2.33	0.60
1:A:1183:TRP:CZ2	1:A:1212:VAL:HG21	2.36	0.60
1:C:575:SER:OG	1:C:787:ARG:N	2.33	0.60
1:D:570:LEU:HD13	1:D:585:LEU:HD11	1.82	0.60
1:D:1008:LEU:O	1:D:1012:TYR:N	2.21	0.60
1:A:660:SER:OG	1:A:661:THR:N	2.35	0.60
1:C:437:VAL:HG11	1:D:278:CYS:HB2	1.83	0.60
1:C:554:ASP:N	1:C:554:ASP:OD1	2.33	0.60
1:D:347:ILE:HG22	1:D:348:THR:HG23	1.83	0.60
1:D:570:LEU:HD11	1:D:784:ALA:CB	2.32	0.60
1:A:73:LEU:CD1	1:A:91:VAL:HG22	2.32	0.60
1:A:103:LEU:HB2	1:A:120:VAL:HG21	1.83	0.60
1:A:1253:ASP:OD1	1:A:1254:THR:N	2.35	0.60
1:B:319:LYS:C	1:B:320:LEU:HD12	2.22	0.60
1:B:920:LEU:HD13	1:B:927:VAL:HG12	1.83	0.60
1:C:966:LEU:HD13	1:C:1003:LYS:NZ	2.17	0.60
1:D:1235:VAL:O	1:D:1239:THR:HG23	2.02	0.60
1:A:360:ARG:NH2	1:A:459:VAL:O	2.34	0.60
1:A:997:THR:HG23	1:A:1000:ILE:HB	1.82	0.60
1:D:994:GLN:O	1:D:994:GLN:NE2	2.35	0.60
1:B:36:PRO:HB3	1:B:503:GLY:O	2.02	0.60
1:B:241:ILE:HG13	1:B:347:ILE:HD11	1.84	0.60
1:C:1024:SER:OG	1:C:1042:THR:HG21	2.01	0.60
1:C:1110:LEU:HD22	1:C:1156:LEU:HD12	1.83	0.60
1:B:775:ASP:OD1	1:B:776:ALA:N	2.34	0.60
1:D:39:LEU:HD12	1:D:122:VAL:HA	1.83	0.60
1:A:237:LYS:O	1:A:238:ILE:HD13	2.02	0.60
1:B:614:SER:O	1:B:617:SER:OG	2.08	0.60
1:C:478:ALA:N	1:C:524:PHE:O	2.35	0.60
1:D:1179:ASN:OD1	1:D:1236:LYS:NZ	2.34	0.60
1:A:47:GLY:HA2	1:A:505:ILE:HD12	1.84	0.59
1:A:50:LEU:O	1:A:51:LEU:HD22	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:68:ARG:HD2	1:C:1114:LEU:HD21	1.84	0.59
1:A:457:SER:OG	1:A:483:ASN:N	2.34	0.59
1:C:189:GLN:OE1	1:C:741:TRP:NE1	2.35	0.59
1:D:1147:LYS:HG2	1:D:1170:LEU:HD22	1.84	0.59
1:B:877:LEU:O	1:B:889:SER:OG	2.09	0.59
1:C:1157:ALA:HB3	1:C:1159:ASN:HB2	1.83	0.59
1:D:631:PRO:HG2	1:D:634:LEU:HD22	1.84	0.59
1:D:1039:THR:HG21	1:D:1105:ILE:HG22	1.84	0.59
1:D:1185:ARG:CB	1:D:1186:PRO:HD2	2.29	0.59
1:A:328:GLU:OE2	1:A:853:ARG:NE	2.34	0.59
1:A:366:PHE:HB3	1:A:408:SER:HB2	1.83	0.59
1:A:733:LYS:N	1:A:760:ASP:OD2	2.35	0.59
1:A:1251:THR:O	1:A:1255:VAL:HG23	2.02	0.59
1:C:1217:LEU:HD21	1:C:1228:LEU:HD21	1.84	0.59
1:D:793:PHE:CZ	1:D:815:LEU:HD23	2.36	0.59
1:D:1106:THR:HG21	1:D:1124:ALA:HB2	1.84	0.59
1:D:1150:LEU:CD1	1:D:1170:LEU:HD21	2.32	0.59
1:A:271:LYS:NZ	1:A:283:SER:OG	2.29	0.59
1:B:156:HIS:ND1	1:B:774:GLU:OE2	2.34	0.59
1:C:520:MET:N	1:C:520:MET:SD	2.76	0.59
1:D:810:LEU:CD1	1:D:860:VAL:HG12	2.33	0.59
1:B:39:LEU:HD12	1:B:122:VAL:CG1	2.33	0.59
1:B:466:HIS:O	1:B:468:LEU:HD12	2.02	0.59
1:B:497:TYR:HB2	1:B:540:LEU:HD11	1.84	0.59
1:C:823:ARG:NH1	1:C:845:PRO:O	2.36	0.59
1:D:498:LEU:O	1:D:541:LEU:N	2.36	0.59
1:D:1067:LEU:HD13	1:D:1112:ILE:HG21	1.84	0.59
1:A:387:ARG:HG2	1:A:387:ARG:HH11	1.66	0.59
1:A:954:ILE:HG23	1:A:955:LEU:HG	1.85	0.59
1:B:499:ILE:HG22	1:B:534:ILE:HD12	1.84	0.59
1:B:1100:THR:HG21	1:B:1145:TYR:CE2	2.38	0.59
1:A:579:PRO:HA	1:A:757:THR:HG21	1.85	0.59
1:A:816:ASN:ND2	1:A:848:ILE:O	2.35	0.59
1:C:50:LEU:O	1:C:51:LEU:HD22	2.02	0.59
1:C:139:LYS:HG2	1:C:142:GLN:HG3	1.85	0.59
1:D:554:ASP:OD1	1:D:555:SER:N	2.36	0.59
1:D:814:VAL:HG23	1:D:856:VAL:HG21	1.85	0.59
1:D:1014:ARG:CB	1:D:1014:ARG:HH11	2.15	0.59
1:A:201:GLY:N	1:A:221:VAL:O	2.34	0.59
1:A:273:SER:OG	1:A:274:ASP:N	2.35	0.59
1:A:948:VAL:HG12	1:A:1326:THR:HA	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1207:GLU:O	1:A:1210:SER:OG	2.09	0.59
1:B:815:LEU:HD21	1:B:853:ARG:CZ	2.32	0.59
1:B:1213:LEU:HD13	1:B:1234:ILE:CG2	2.33	0.59
1:A:760:ASP:HB3	1:A:899:VAL:HG13	1.85	0.59
1:A:816:ASN:O	1:A:851:ASN:N	2.36	0.59
1:B:352:PHE:CE1	1:B:444:ALA:HB1	2.38	0.59
1:B:984:ILE:HG13	1:B:1008:LEU:HD21	1.85	0.59
1:C:816:ASN:O	1:C:851:ASN:N	2.34	0.59
1:C:869:ASN:HD22	1:C:869:ASN:N	2.01	0.59
1:A:614:SER:O	1:A:617:SER:OG	2.12	0.58
1:B:39:LEU:CB	1:B:122:VAL:HG12	2.28	0.58
1:B:804:ARG:NE	1:B:863:LYS:O	2.35	0.58
1:B:1323:TYR:OH	1:B:1325:GLN:OE1	2.12	0.58
1:B:208:GLN:NE2	1:B:209:LYS:O	2.36	0.58
1:B:617:SER:O	1:B:621:LEU:HD13	2.02	0.58
1:B:1208:MET:O	1:B:1212:VAL:N	2.32	0.58
1:C:1185:ARG:O	1:C:1187:GLN:N	2.32	0.58
1:D:268:ILE:HD12	1:D:309:PHE:CZ	2.38	0.58
1:D:597:LEU:CD1	1:D:744:VAL:HG13	2.33	0.58
1:C:384:ILE:HD11	1:C:405:VAL:CG1	2.33	0.58
1:D:241:ILE:O	1:D:311:LEU:HD13	2.03	0.58
1:A:735:PHE:CE2	1:A:738:THR:HB	2.37	0.58
1:B:650:ILE:HG23	1:C:650:ILE:HD11	1.84	0.58
1:C:238:ILE:HD12	1:C:342:GLU:HB2	1.85	0.58
1:D:174:ARG:O	1:D:1003:LYS:HG3	2.03	0.58
1:D:293:GLN:NE2	1:D:293:GLN:O	2.36	0.58
1:D:1039:THR:HG21	1:D:1105:ILE:HA	1.84	0.58
1:A:38:LEU:HD22	1:A:40:HIS:CE1	2.39	0.58
1:B:241:ILE:HG22	1:B:242:LEU:HD22	1.85	0.58
1:B:878:GLU:OE2	1:B:879:SER:N	2.36	0.58
1:C:1226:GLU:O	1:C:1229:THR:OG1	2.18	0.58
1:D:575:SER:OG	1:D:787:ARG:O	2.09	0.58
1:A:608:LYS:NZ	1:A:609:PRO:O	2.25	0.58
1:B:400:ASP:OD1	1:B:403:GLY:N	2.36	0.58
1:C:1046:LEU:HD12	1:C:1049:PHE:CD2	2.38	0.58
1:B:503:GLY:HA3	1:B:627:LEU:HD23	1.85	0.58
1:B:822:ILE:HG21	1:B:876:ALA:HB1	1.84	0.58
1:C:598:ARG:O	1:C:768:GLY:N	2.36	0.58
1:C:945:ARG:O	1:C:1329:LYS:N	2.35	0.58
1:C:1296:ASN:HD22	1:C:1299:LEU:HD23	1.69	0.58
1:D:854:GLN:O	1:D:856:VAL:HG23	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:595:CYS:C	1:C:743:LEU:HD23	2.24	0.58
1:C:927:VAL:HG12	1:C:928:SER:H	1.68	0.58
1:D:658:VAL:HG21	1:D:688:MET:SD	2.44	0.58
1:B:532:SER:OG	1:B:533:ASP:N	2.37	0.58
1:B:1150:LEU:HD12	1:B:1154:PHE:CE2	2.38	0.58
1:C:31:TYR:O	1:C:679:THR:HG22	2.04	0.58
1:C:966:LEU:CD1	1:C:1000:ILE:HD11	2.34	0.58
1:D:1208:MET:SD	1:D:1209:THR:N	2.77	0.58
1:B:1173:GLU:O	1:B:1183:TRP:NE1	2.36	0.57
1:C:66:SER:OG	1:C:67:VAL:N	2.36	0.57
1:C:167:ILE:HD12	1:C:176:ALA:HB3	1.86	0.57
1:D:916:PHE:HB3	1:D:931:LEU:HD11	1.85	0.57
1:C:187:LEU:HD21	1:C:596:ALA:HB2	1.86	0.57
1:C:870:PHE:N	1:C:901:LYS:O	2.37	0.57
1:D:826:VAL:HG11	1:D:856:VAL:HG11	1.86	0.57
1:D:960:GLN:OE1	1:D:960:GLN:N	2.35	0.57
1:A:387:ARG:HB2	1:A:420:THR:CG2	2.31	0.57
1:C:949:SER:O	1:C:1325:GLN:N	2.34	0.57
1:D:129:VAL:CG2	1:D:215:THR:HG21	2.35	0.57
1:D:234:THR:N	1:D:249:SER:O	2.38	0.57
1:A:1291:GLN:O	1:A:1296:ASN:ND2	2.37	0.57
1:C:127:SER:O	1:C:209:LYS:NZ	2.38	0.57
1:C:597:LEU:HB3	1:C:740:ILE:HG21	1.85	0.57
1:C:908:GLU:O	1:C:1331:ASN:ND2	2.38	0.57
1:C:1278:VAL:O	1:C:1289:LYS:NZ	2.38	0.57
1:D:1255:VAL:HG23	1:D:1256:VAL:HG23	1.85	0.57
1:B:815:LEU:HD23	1:B:817:TYR:HE1	1.67	0.57
1:B:1252:GLN:O	1:B:1256:VAL:HG22	2.05	0.57
1:B:1297:ARG:O	1:B:1297:ARG:HD2	2.05	0.57
1:C:976:ASN:ND2	1:C:1015:GLN:OE1	2.36	0.57
1:D:889:SER:O	1:D:895:ARG:NH1	2.36	0.57
1:A:538:ALA:HB3	1:A:558:TYR:HB2	1.86	0.57
1:A:821:CYS:SG	1:A:849:CYS:N	2.78	0.57
1:C:596:ALA:C	1:C:597:LEU:HD12	2.25	0.57
1:D:845:PRO:HB3	1:D:856:VAL:HG22	1.86	0.57
1:B:1281:GLN:N	1:B:1313:SER:O	2.38	0.57
1:D:386:ILE:HD12	1:D:395:SER:O	2.04	0.57
1:D:475:THR:OG1	1:D:477:GLN:NE2	2.37	0.57
1:D:1347:THR:HA	1:D:1363:ILE:HG23	1.87	0.57
1:A:946:ALA:O	1:A:1304:SER:OG	2.22	0.57
1:D:799:PRO:O	1:D:800:TYR:HB2	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:38:LEU:HD23	1:A:39:LEU:N	2.20	0.57
1:A:368:GLN:CG	1:A:404:LEU:HD22	2.34	0.57
1:A:810:LEU:HD23	1:A:858:TRP:HB2	1.86	0.57
1:A:1125:LEU:HD23	1:A:1128:LEU:CD1	2.35	0.57
1:C:347:ILE:HG21	1:C:439:GLU:CD	2.24	0.57
1:C:442:GLU:OE1	1:C:444:ALA:N	2.37	0.57
1:A:389:ASN:OD1	1:A:420:THR:HG22	2.05	0.56
1:A:1147:LYS:HA	1:A:1150:LEU:HD12	1.87	0.56
1:B:549:GLY:O	1:B:682:LYS:N	2.38	0.56
1:B:387:ARG:HB2	1:B:420:THR:HG23	1.86	0.56
1:B:538:ALA:HB3	1:B:558:TYR:HB2	1.86	0.56
1:B:1100:THR:HG23	1:B:1146:THR:HG22	1.86	0.56
1:C:67:VAL:HG12	1:C:100:VAL:O	2.05	0.56
1:C:476:VAL:N	1:C:526:ILE:O	2.38	0.56
1:D:605:LEU:HD12	1:D:608:LYS:O	2.05	0.56
1:A:58:VAL:HG22	1:A:109:GLY:HA2	1.87	0.56
1:A:581:SER:HB2	1:A:756:VAL:CG1	2.34	0.56
1:A:1038:ASN:ND2	1:A:1085:SER:OG	2.37	0.56
1:B:1110:LEU:O	1:B:1112:ILE:HG22	2.05	0.56
1:C:593:SER:O	1:C:746:VAL:N	2.38	0.56
1:D:241:ILE:HG22	1:D:242:LEU:HD22	1.87	0.56
1:D:1000:ILE:O	1:D:1004:ALA:N	2.38	0.56
1:D:126:ASP:OD1	1:D:126:ASP:N	2.37	0.56
1:D:1370:THR:HG23	1:D:1424:ASN:HB3	1.86	0.56
1:C:648:VAL:CG2	1:C:658:VAL:HG22	2.36	0.56
1:A:596:ALA:HB1	1:A:741:TRP:CZ3	2.41	0.56
1:A:596:ALA:HB1	1:A:741:TRP:HZ3	1.70	0.56
1:C:103:LEU:HD22	1:C:120:VAL:HG21	1.87	0.56
1:C:187:LEU:HG	1:C:772:LEU:HD11	1.87	0.56
1:D:809:THR:CG2	1:D:1437:VAL:HG13	2.36	0.56
1:A:610:ASP:OD1	1:A:611:ALA:N	2.37	0.56
1:B:1232:THR:HG21	1:B:1323:TYR:CG	2.41	0.56
1:A:1111:GLU:OE1	1:A:1152:TYR:OH	2.09	0.56
1:B:203:TYR:N	1:B:219:PHE:O	2.36	0.56
1:C:889:SER:O	1:C:895:ARG:NH1	2.38	0.56
1:D:80:GLU:OE1	1:D:80:GLU:N	2.39	0.56
1:D:1352:CYS:N	1:D:1467:CYS:SG	2.78	0.56
1:C:347:ILE:HG23	1:C:348:THR:HG23	1.88	0.56
1:D:1278:VAL:HG22	1:D:1316:VAL:CG1	2.36	0.56
1:A:77:LEU:HD13	1:A:87:VAL:HB	1.87	0.56
1:A:227:PRO:O	1:A:603:SER:OG	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:650:ILE:HD12	1:A:656:THR:HG21	1.88	0.56
1:A:666:MET:HB3	1:A:683:ILE:HG23	1.88	0.56
1:B:39:LEU:CD1	1:B:122:VAL:HG12	2.36	0.56
1:B:339:GLN:OE1	1:B:339:GLN:N	2.38	0.56
1:B:583:ALA:HB3	1:B:755:GLY:C	2.26	0.56
1:C:661:THR:OG1	1:C:662:ASN:N	2.39	0.56
1:C:948:VAL:HA	1:C:1326:THR:HG23	1.86	0.56
1:A:602:GLN:HA	1:A:605:LEU:HB3	1.88	0.55
1:B:1128:LEU:CD1	1:B:1150:LEU:HD13	2.36	0.55
1:D:1183:TRP:CZ3	1:D:1184:GLU:HG2	2.41	0.55
1:A:152:ASP:N	1:A:152:ASP:OD1	2.39	0.55
1:A:966:LEU:HD21	1:A:1004:ALA:HB2	1.87	0.55
1:B:827:GLN:N	1:B:873:SER:O	2.36	0.55
1:C:1025:TYR:CE2	1:C:1045:VAL:HG11	2.41	0.55
1:C:1219:ALA:HB1	1:C:1222:ALA:N	2.20	0.55
1:D:405:VAL:HG13	1:D:407:PHE:CE2	2.42	0.55
1:D:656:THR:HG22	1:D:657:PRO:O	2.05	0.55
1:A:1217:LEU:O	1:A:1219:ALA:N	2.39	0.55
1:C:493:LEU:HD12	1:C:494:SER:H	1.69	0.55
1:C:497:TYR:CD1	1:C:499:ILE:HD11	2.40	0.55
1:D:223:GLU:N	1:D:223:GLU:OE2	2.40	0.55
1:A:81:ASN:O	1:A:83:VAL:HG23	2.07	0.55
1:A:103:LEU:CB	1:A:120:VAL:HG21	2.36	0.55
1:A:230:GLU:HA	1:A:606:LEU:HD11	1.88	0.55
1:A:350:LEU:HD12	1:A:351:SER:N	2.21	0.55
1:B:1093:GLY:O	1:B:1204:ALA:HB2	2.07	0.55
1:A:596:ALA:N	1:A:770:PHE:O	2.37	0.55
1:B:238:ILE:HG23	1:B:342:GLU:HB2	1.88	0.55
1:C:1127:CYS:O	1:C:1130:SER:OG	2.18	0.55
1:A:493:LEU:HD11	1:A:544:ALA:HB1	1.87	0.55
1:A:762:ILE:HD11	1:A:795:GLU:OE2	2.06	0.55
1:A:1208:MET:O	1:A:1212:VAL:N	2.38	0.55
1:B:101:MET:CG	1:B:122:VAL:HG13	2.24	0.55
1:B:1150:LEU:HD12	1:B:1154:PHE:CZ	2.41	0.55
1:D:359:PHE:O	1:D:664:LYS:NZ	2.39	0.55
1:D:1278:VAL:HG22	1:D:1316:VAL:HG12	1.88	0.55
1:D:1352:CYS:SG	1:D:1358:HIS:N	2.80	0.55
1:A:735:PHE:HE2	1:A:738:THR:HB	1.71	0.55
1:B:1026:SER:OG	1:B:1027:THR:N	2.40	0.55
1:C:387:ARG:HD3	1:C:420:THR:HG23	1.89	0.55
1:C:980:PHE:CE1	1:C:1008:LEU:HD22	2.42	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:ARG:NH1	1:B:309:PHE:O	2.40	0.55
1:B:736:PRO:O	1:B:738:THR:N	2.39	0.55
1:C:352:PHE:HD1	1:C:369:VAL:HG22	1.71	0.55
1:D:387:ARG:HB2	1:D:420:THR:HG23	1.89	0.55
1:D:1106:THR:HG21	1:D:1124:ALA:CB	2.37	0.55
1:A:84:LEU:HD23	1:A:508:THR:OG1	2.06	0.55
1:A:144:VAL:HG21	1:A:219:PHE:CZ	2.42	0.55
1:A:481:ILE:N	1:A:482:LEU:HD12	2.22	0.55
1:D:744:VAL:HG11	1:D:753:GLU:OE2	2.06	0.55
1:A:981:ALA:HB3	1:A:982:PRO:HD3	1.89	0.55
1:B:1152:TYR:HE1	1:B:1156:LEU:HD23	1.71	0.55
1:D:504:GLY:O	1:D:505:ILE:HD13	2.07	0.55
1:A:931:LEU:CD1	1:A:933:LEU:HD21	2.37	0.54
1:A:965:LEU:HD11	1:A:1247:GLY:CA	2.37	0.54
1:B:241:ILE:CG1	1:B:347:ILE:HD11	2.37	0.54
1:C:514:LEU:HD23	1:C:515:VAL:N	2.22	0.54
1:C:778:LEU:HD23	1:C:778:LEU:H	1.72	0.54
1:D:896:LYS:HG3	1:D:898:THR:HG23	1.89	0.54
1:A:384:ILE:N	1:A:397:ALA:O	2.40	0.54
1:A:386:ILE:HD13	1:A:407:PHE:HB3	1.89	0.54
1:B:431:CYS:O	1:B:437:VAL:HG11	2.06	0.54
1:C:345:ARG:NH1	1:C:437:VAL:O	2.40	0.54
1:C:976:ASN:ND2	1:C:1011:GLY:O	2.39	0.54
1:D:538:ALA:HB2	1:D:560:VAL:HG23	1.90	0.54
1:B:385:PHE:N	1:B:422:ARG:O	2.41	0.54
1:C:103:LEU:HD22	1:C:120:VAL:CG2	2.37	0.54
1:C:187:LEU:HD11	1:C:743:LEU:HD21	1.90	0.54
1:C:475:THR:HG1	1:C:525:SER:HG	1.51	0.54
1:C:1181:VAL:HG22	1:C:1233:ASN:CB	2.37	0.54
1:D:617:SER:O	1:D:621:LEU:HD23	2.08	0.54
1:D:1363:ILE:HG22	1:D:1365:LEU:CD1	2.38	0.54
1:A:681:SER:OG	1:A:682:LYS:N	2.41	0.54
1:A:1097:ASP:O	1:A:1100:THR:N	2.39	0.54
1:B:39:LEU:HD12	1:B:122:VAL:HG13	1.89	0.54
1:B:214:ARG:NH1	1:B:959:MET:SD	2.80	0.54
1:B:1265:GLY:O	1:B:1269:PHE:N	2.40	0.54
1:C:356:ASP:OD1	1:C:358:HIS:N	2.39	0.54
1:C:1110:LEU:HD13	1:C:1156:LEU:HB3	1.89	0.54
1:D:739:TRP:O	1:D:740:ILE:HD13	2.07	0.54
1:B:996:LEU:HD23	1:B:996:LEU:H	1.72	0.54
1:C:206:VAL:HG13	1:C:216:GLU:CG	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1014:ARG:NH1	1:D:1014:ARG:HB2	2.22	0.54
1:A:137:ILE:HD11	1:A:222:GLU:N	2.22	0.54
1:A:688:MET:SD	1:A:688:MET:N	2.81	0.54
1:B:222:GLU:OE1	1:B:222:GLU:N	2.41	0.54
1:B:744:VAL:HG23	1:B:751:VAL:HG21	1.90	0.54
1:C:187:LEU:CG	1:C:772:LEU:HD11	2.37	0.54
1:C:197:GLU:O	1:C:945:ARG:NH1	2.41	0.54
1:C:1213:LEU:HG	1:C:1260:ALA:HB1	1.88	0.54
1:D:155:PHE:HB3	1:D:778:LEU:HD22	1.89	0.54
1:B:539:ARG:NH2	1:B:628:THR:OG1	2.41	0.54
1:B:1148:ALA:CB	1:B:1212:VAL:HG22	2.38	0.54
1:C:914:THR:HG21	1:C:935:LEU:HD11	1.90	0.54
1:D:64:LEU:HD22	1:D:73:LEU:HD23	1.89	0.54
1:A:650:ILE:HD11	1:D:653:ILE:HD11	1.89	0.54
1:A:1206:VAL:O	1:A:1209:THR:N	2.41	0.54
1:C:33:VAL:C	1:C:34:LEU:HD12	2.29	0.54
1:C:1147:LYS:O	1:C:1166:VAL:HG21	2.08	0.54
1:D:990:LEU:HD23	1:D:990:LEU:C	2.28	0.54
1:D:1107:ILE:HG21	1:D:1149:LEU:HD22	1.90	0.54
1:B:506:VAL:HG11	1:B:534:ILE:HD12	1.90	0.54
1:B:803:ILE:HD12	1:B:906:GLU:HB2	1.89	0.54
1:C:117:ARG:HB2	1:C:117:ARG:HH11	1.72	0.54
1:C:176:ALA:HB2	1:C:192:PHE:CD1	2.43	0.54
1:C:1181:VAL:HG23	1:C:1234:ILE:HG23	1.90	0.54
1:D:64:LEU:HD13	1:D:73:LEU:HB2	1.89	0.54
1:A:308:VAL:O	1:A:310:GLN:NE2	2.38	0.53
1:C:187:LEU:HD23	1:C:772:LEU:HD11	1.88	0.53
1:A:600:VAL:O	1:A:766:LYS:N	2.41	0.53
1:A:911:GLU:N	1:A:1331:ASN:OD1	2.41	0.53
1:A:1184:GLU:OE1	1:A:1187:GLN:NE2	2.36	0.53
1:B:237:LYS:O	1:B:238:ILE:HD13	2.07	0.53
1:B:267:SER:O	1:B:267:SER:OG	2.24	0.53
1:C:315:GLU:OE1	1:C:315:GLU:N	2.41	0.53
1:C:371:LEU:N	1:C:403:GLY:O	2.41	0.53
1:C:1110:LEU:CD2	1:C:1116:VAL:HG12	2.39	0.53
1:D:128:LEU:N	1:D:151:MET:O	2.37	0.53
1:D:265:THR:CB	1:D:291:SER:HB3	2.39	0.53
1:A:833:ALA:HB3	1:A:868:VAL:HG21	1.89	0.53
1:A:1125:LEU:HA	1:A:1128:LEU:HD12	1.89	0.53
1:B:49:VAL:O	1:B:84:LEU:HD12	2.08	0.53
1:B:381:ASN:N	1:B:399:THR:OG1	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:596:ALA:N	1:B:770:PHE:O	2.41	0.53
1:B:1050:ALA:HB1	1:B:1113:PRO:CG	2.39	0.53
1:D:47:GLY:N	1:D:87:VAL:O	2.39	0.53
1:D:144:VAL:HG22	1:D:192:PHE:O	2.08	0.53
1:B:318:MET:HE3	1:B:320:LEU:HD11	1.91	0.53
1:D:73:LEU:HD12	1:D:91:VAL:HG12	1.91	0.53
1:D:989:TYR:HD1	1:D:989:TYR:H	1.55	0.53
1:D:1211:TYR:HD1	1:D:1214:LEU:HD12	1.73	0.53
1:B:368:GLN:CD	1:B:404:LEU:HD22	2.29	0.53
1:B:336:THR:O	1:B:336:THR:OG1	2.23	0.53
1:B:356:ASP:OD2	1:B:366:PHE:N	2.41	0.53
1:B:372:VAL:HG12	1:B:373:ASP:H	1.73	0.53
1:B:648:VAL:HG11	1:C:653:ILE:HD13	1.90	0.53
1:B:1242:GLN:NE2	1:B:1247:GLY:O	2.38	0.53
1:C:205:VAL:N	1:C:217:HIS:O	2.41	0.53
1:A:665:ASP:OD1	1:A:666:MET:N	2.42	0.53
1:A:731:VAL:O	1:A:898:THR:OG1	2.26	0.53
1:B:1123:ASN:ND2	1:D:103:LEU:O	2.42	0.53
1:C:30:GLN:NE2	1:C:681:SER:OG	2.39	0.53
1:C:394:TYR:HD2	5:C:2004:NAG:H61	1.74	0.53
1:D:1183:TRP:CE3	1:D:1183:TRP:O	2.61	0.53
1:A:1070:LEU:CD1	1:A:1109:LEU:HD11	2.38	0.53
1:B:267:SER:OG	1:B:321:HIS:N	2.38	0.53
1:C:103:LEU:HD23	1:C:118:THR:CG2	2.38	0.53
1:C:388:GLY:HA2	1:C:391:ALA:HB3	1.89	0.53
1:C:653:ILE:O	1:C:654:THR:HG23	2.09	0.53
1:C:992:GLU:HG3	1:C:1266:ALA:HB2	1.91	0.53
1:C:1026:SER:OG	1:C:1027:THR:N	2.40	0.53
1:D:622:LEU:HD23	1:D:623:PRO:O	2.09	0.53
1:D:622:LEU:HD22	1:D:625:LYS:HG3	1.89	0.53
1:D:910:LEU:HB2	1:D:1333:LEU:HD23	1.89	0.53
5:D:2002:NAG:HO3	5:D:2002:NAG:C7	2.22	0.53
1:A:919:LEU:O	1:A:920:LEU:HD23	2.09	0.53
1:B:804:ARG:NH2	1:B:941:GLU:OE2	2.39	0.53
1:B:1047:LYS:O	1:B:1050:ALA:HB3	2.09	0.53
1:C:187:LEU:CD2	1:C:772:LEU:HD11	2.39	0.53
1:C:233:VAL:HG23	1:C:338:ARG:HH22	1.74	0.53
1:A:431:CYS:CB	1:A:437:VAL:HG11	2.39	0.53
1:B:129:VAL:HG12	1:B:149:VAL:O	2.09	0.53
1:B:570:LEU:N	1:B:781:SER:OG	2.42	0.53
1:A:496:TYR:N	1:A:543:TYR:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:899:VAL:HG12	1:A:901:LYS:HG2	1.90	0.52
1:C:38:LEU:O	1:C:38:LEU:HD23	2.08	0.52
1:C:541:LEU:HD22	1:C:673:MET:CE	2.39	0.52
1:C:1049:PHE:HD1	1:C:1058:ILE:HD11	1.74	0.52
1:C:1095:VAL:HG13	1:C:1201:ALA:HA	1.90	0.52
1:C:1106:THR:HG21	1:C:1124:ALA:HB1	1.90	0.52
1:D:405:VAL:HG13	1:D:407:PHE:HE2	1.74	0.52
1:D:914:THR:HG23	1:D:1330:TYR:HE1	1.74	0.52
1:A:333:VAL:HG12	1:A:334:GLU:H	1.74	0.52
1:A:955:LEU:HD21	1:A:993:THR:HB	1.91	0.52
1:B:288:GLU:N	1:B:288:GLU:OE1	2.42	0.52
1:B:637:GLN:O	1:B:684:ARG:NH1	2.40	0.52
1:B:1279:THR:O	1:B:1315:LYS:N	2.42	0.52
1:C:276:SER:OG	1:C:279:HIS:O	2.23	0.52
1:C:335:LEU:HD23	1:C:336:THR:N	2.23	0.52
1:C:1146:THR:O	1:C:1150:LEU:HD23	2.09	0.52
1:D:390:GLU:OE1	1:D:390:GLU:HA	2.09	0.52
1:A:266:VAL:HG22	1:A:322:THR:OG1	2.09	0.52
1:B:1072:GLN:NE2	1:D:634:LEU:HD23	2.24	0.52
1:C:974:GLU:OE1	1:C:1091:ILE:HD13	2.09	0.52
1:C:1041:LEU:O	1:C:1045:VAL:HG23	2.09	0.52
1:D:288:GLU:OE1	1:D:288:GLU:N	2.43	0.52
1:D:473:THR:OG1	1:D:528:ILE:O	2.27	0.52
1:B:329:GLU:CG	1:B:797:THR:HG21	2.38	0.52
1:C:238:ILE:HG23	1:C:342:GLU:HB2	1.91	0.52
1:C:1217:LEU:HD21	1:C:1228:LEU:CD2	2.40	0.52
1:D:1042:THR:HA	1:D:1045:VAL:HG12	1.92	0.52
1:A:581:SER:HB2	1:A:756:VAL:HG22	1.92	0.52
5:A:2003:NAG:H3	5:A:2003:NAG:H82	1.90	0.52
1:B:808:PHE:N	1:B:860:VAL:O	2.40	0.52
1:C:117:ARG:HB2	1:C:117:ARG:NH1	2.24	0.52
1:C:385:PHE:N	1:C:422:ARG:O	2.43	0.52
1:D:66:SER:OG	1:D:67:VAL:N	2.43	0.52
1:D:233:VAL:O	1:D:338:ARG:NH1	2.42	0.52
1:D:386:ILE:HD11	1:D:397:ALA:HB3	1.92	0.52
1:A:144:VAL:O	1:A:192:PHE:N	2.42	0.52
1:A:347:ILE:HG22	1:A:348:THR:H	1.73	0.52
1:B:747:ASN:ND2	1:B:750:GLY:O	2.43	0.52
1:C:176:ALA:HB1	1:C:178:TRP:CZ3	2.43	0.52
1:D:117:ARG:O	1:D:118:THR:OG1	2.28	0.52
1:D:268:ILE:HD11	1:D:290:PHE:HD1	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:122:VAL:HG23	1:B:122:VAL:O	2.08	0.52
1:C:798:MET:CB	1:C:810:LEU:HD22	2.40	0.52
1:C:1181:VAL:HG23	1:C:1234:ILE:CG2	2.40	0.52
1:D:292:GLY:HA3	1:D:300:PHE:HZ	1.75	0.52
1:B:743:LEU:HD11	1:B:745:VAL:HG22	1.92	0.52
1:B:1109:LEU:HD21	1:B:1120:VAL:CG1	2.39	0.52
1:B:1148:ALA:HB1	1:B:1212:VAL:HG22	1.92	0.52
1:C:499:ILE:HD13	1:C:507:ARG:HG3	1.90	0.52
1:D:290:PHE:CB	1:D:304:VAL:HG12	2.39	0.52
1:D:490:LEU:HD23	1:D:492:LYS:O	2.10	0.52
1:A:793:PHE:CZ	1:A:815:LEU:HD13	2.45	0.52
1:A:912:LYS:HG3	1:A:1330:TYR:CE1	2.45	0.52
1:A:1296:ASN:N	1:A:1296:ASN:OD1	2.42	0.52
1:B:329:GLU:HG2	1:B:797:THR:HG21	1.92	0.52
1:B:814:VAL:HG21	1:B:874:ALA:CB	2.40	0.52
1:B:1271:ARG:NE	1:B:1271:ARG:H	2.08	0.52
1:C:61:SER:O	1:C:61:SER:OG	2.26	0.52
1:C:363:ILE:HD13	1:C:481:ILE:HD11	1.92	0.52
1:D:620:ASN:O	1:D:625:LYS:NZ	2.23	0.52
1:D:913:GLU:OE2	1:D:1176:LYS:N	2.43	0.52
1:D:1011:GLY:HA2	1:D:1014:ARG:CZ	2.40	0.52
1:A:77:LEU:HD22	1:A:87:VAL:CG1	2.40	0.52
1:A:996:LEU:HD12	1:A:997:THR:H	1.75	0.52
1:A:1183:TRP:CH2	1:A:1212:VAL:HG11	2.45	0.52
1:B:450:LEU:O	1:B:664:LYS:N	2.41	0.52
1:C:319:LYS:CA	1:C:320:LEU:HD12	2.40	0.52
1:C:350:LEU:HD12	1:C:351:SER:N	2.25	0.52
1:C:1076:ASP:N	1:C:1076:ASP:OD1	2.43	0.52
1:D:165:VAL:CG2	1:D:207:VAL:HG22	2.40	0.52
1:A:742:ASP:N	1:A:742:ASP:OD1	2.43	0.51
1:A:1105:ILE:O	1:A:1109:LEU:HD23	2.09	0.51
1:A:1305:LEU:HD13	1:A:1312:TYR:CD1	2.46	0.51
1:B:911:GLU:N	1:B:1331:ASN:OD1	2.43	0.51
1:D:828:LEU:HD13	1:D:858:TRP:HB2	1.91	0.51
1:D:910:LEU:HD21	1:D:1183:TRP:CE2	2.44	0.51
1:A:60:VAL:HG23	1:A:107:VAL:CG2	2.39	0.51
1:A:372:VAL:HG12	1:A:373:ASP:H	1.74	0.51
1:B:626:ASP:O	1:B:628:THR:HG22	2.11	0.51
1:B:802:VAL:O	1:B:803:ILE:HD13	2.09	0.51
1:C:1022:ASP:OD1	1:C:1023:GLY:N	2.43	0.51
1:C:1253:ASP:N	1:C:1253:ASP:OD1	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:348:THR:OG1	1:D:441:HIS:ND1	2.37	0.51
1:A:869:ASN:HB3	1:A:900:ILE:CG2	2.39	0.51
1:A:1068:ILE:HD12	1:A:1072:GLN:HE22	1.75	0.51
1:B:1070:LEU:HD22	1:B:1120:VAL:CG1	2.40	0.51
1:D:233:VAL:HA	1:D:250:VAL:HG13	1.92	0.51
1:D:502:LYS:HA	1:D:535:ALA:HB2	1.92	0.51
1:D:1218:THR:HG23	1:D:1263:LYS:HZ2	1.76	0.51
2:I:2:NAG:C7	2:I:2:NAG:HO3	2.23	0.51
1:A:562:ASN:OD1	1:A:616:SER:OG	2.28	0.51
1:A:1088:ASN:ND2	1:A:1091:ILE:HD12	2.25	0.51
1:A:1210:SER:OG	1:A:1211:TYR:N	2.43	0.51
1:B:568:VAL:CG2	1:B:589:ALA:HB2	2.40	0.51
1:C:798:MET:HB2	1:C:810:LEU:HD22	1.91	0.51
1:C:1099:VAL:HG11	1:C:1146:THR:HG22	1.91	0.51
1:D:173:ASN:OD1	1:D:173:ASN:N	2.43	0.51
1:D:599:ALA:HB3	1:D:740:ILE:CG1	2.40	0.51
1:D:1251:THR:HG21	1:D:1407:ARG:CG	2.41	0.51
1:A:237:LYS:HB2	1:A:338:ARG:HG3	1.93	0.51
1:A:270:ARG:NE	1:A:316:TYR:O	2.38	0.51
1:B:39:LEU:CD1	1:B:122:VAL:CG1	2.88	0.51
1:B:64:LEU:HD13	1:B:103:LEU:HD13	1.92	0.51
1:B:660:SER:OG	1:B:687:LYS:NZ	2.22	0.51
1:C:112:GLN:NE2	1:C:112:GLN:HA	2.26	0.51
1:C:133:THR:HG22	1:C:146:PHE:CB	2.39	0.51
1:D:959:MET:N	1:D:959:MET:SD	2.84	0.51
1:A:415:MET:HG3	1:A:450:LEU:HD21	1.93	0.51
1:B:1044:PHE:CZ	1:B:1255:VAL:HG21	2.43	0.51
1:C:1210:SER:OG	1:C:1211:TYR:N	2.43	0.51
1:A:989:TYR:CE2	1:A:993:THR:HG21	2.46	0.51
1:B:501:ALA:O	1:B:504:GLY:N	2.43	0.51
1:C:148:VAL:HG22	1:C:149:VAL:H	1.74	0.51
1:C:400:ASP:OD1	1:C:404:LEU:N	2.39	0.51
1:D:35:VAL:HG22	1:D:677:ALA:HA	1.92	0.51
1:D:46:LYS:NZ	1:D:506:VAL:O	2.30	0.51
1:D:165:VAL:HG21	1:D:207:VAL:HG22	1.91	0.51
1:C:142:GLN:O	1:C:194:LEU:HG	2.10	0.51
1:C:270:ARG:NE	1:C:316:TYR:O	2.41	0.51
1:C:527:SER:O	1:C:528:ILE:HG23	2.10	0.51
1:A:184:GLU:OE1	1:A:184:GLU:N	2.44	0.51
1:A:345:ARG:O	1:A:440:GLU:N	2.43	0.51
1:A:431:CYS:HB2	1:A:437:VAL:HG11	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:871:THR:HG22	1:A:900:ILE:HG23	1.92	0.51
1:B:203:TYR:O	1:B:219:PHE:N	2.37	0.51
1:B:307:LYS:O	1:B:310:GLN:NE2	2.44	0.51
1:B:907:PRO:O	1:B:1331:ASN:ND2	2.44	0.51
1:C:975:GLN:O	1:C:979:LEU:HD23	2.11	0.51
1:A:78:GLU:OE2	1:A:85:HIS:ND1	2.42	0.51
1:A:767:ALA:HB3	1:A:783:THR:HA	1.93	0.51
1:A:950:VAL:HG22	1:A:1324:LEU:HD21	1.92	0.51
1:B:499:ILE:HG12	1:B:528:ILE:HD12	1.92	0.51
1:B:1027:THR:HG21	1:B:1087:LEU:CD1	2.42	0.51
1:C:147:ARG:NH1	1:C:742:ASP:O	2.40	0.51
1:C:451:VAL:HG23	1:C:664:LYS:C	2.31	0.51
1:C:1086:LEU:HD12	1:C:1087:LEU:N	2.26	0.51
1:C:1292:VAL:HA	1:C:1296:ASN:ND2	2.26	0.51
1:D:195:SER:OG	1:D:1244:ALA:O	2.16	0.51
1:D:321:HIS:HB3	1:D:336:THR:HG22	1.92	0.51
1:D:917:ASN:ND2	1:D:1323:TYR:OH	2.43	0.51
1:A:497:TYR:CE1	1:A:526:ILE:HD11	2.46	0.50
1:B:978:VAL:HG22	1:B:1251:THR:HG21	1.93	0.50
1:C:38:LEU:HD11	1:C:123:LYS:HD3	1.93	0.50
1:C:932:SER:OG	1:C:1310:GLY:O	2.20	0.50
1:D:538:ALA:O	1:D:558:TYR:N	2.40	0.50
1:D:763:THR:HG23	1:D:765:TRP:NE1	2.26	0.50
1:D:1019:LYS:O	1:D:1030:GLU:N	2.44	0.50
1:D:1150:LEU:HD12	1:D:1170:LEU:HD21	1.92	0.50
1:A:536:PRO:HA	1:A:560:VAL:HB	1.92	0.50
1:A:550:ASP:OD1	1:A:551:VAL:N	2.44	0.50
1:A:1067:LEU:HD12	1:A:1070:LEU:CD1	2.38	0.50
1:B:133:THR:HG23	1:B:217:HIS:CD2	2.45	0.50
1:B:236:PRO:HD2	1:B:248:VAL:HG22	1.93	0.50
1:D:142:GLN:NE2	1:D:737:GLU:OE1	2.44	0.50
1:D:399:THR:OG1	1:D:400:ASP:N	2.44	0.50
1:D:570:LEU:CB	1:D:587:VAL:HG22	2.41	0.50
1:A:94:SER:OG	1:A:124:ASN:ND2	2.41	0.50
1:A:270:ARG:NH1	1:A:309:PHE:O	2.44	0.50
1:B:129:VAL:HG12	1:B:150:SER:HB2	1.92	0.50
1:C:491:LYS:O	1:C:515:VAL:HG22	2.11	0.50
1:D:793:PHE:CE1	1:D:815:LEU:HD23	2.46	0.50
1:A:101:MET:O	1:A:120:VAL:N	2.40	0.50
1:B:1152:TYR:CE2	1:B:1214:LEU:HD13	2.46	0.50
1:C:239:ILE:CG2	1:C:343:ILE:HD11	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:578:LEU:O	1:C:580:ALA:N	2.45	0.50
1:D:1016:LEU:HD23	1:D:1016:LEU:O	2.10	0.50
1:D:1238:ILE:HD12	1:D:1257:ALA:O	2.11	0.50
1:A:164:LEU:O	1:A:207:VAL:HG23	2.12	0.50
1:A:984:ILE:HA	1:A:987:LEU:HD12	1.93	0.50
1:B:1160:GLN:OE1	1:B:1160:GLN:N	2.38	0.50
1:C:1115:THR:CB	1:C:1117:THR:HG22	2.41	0.50
1:C:1181:VAL:HG22	1:C:1233:ASN:HB3	1.93	0.50
1:C:1208:MET:SD	1:C:1209:THR:HG23	2.51	0.50
1:D:914:THR:OG1	1:D:935:LEU:HD13	2.11	0.50
1:A:44:THR:OG1	1:A:88:ALA:HB1	2.12	0.50
1:A:147:ARG:CD	1:A:743:LEU:HD11	2.42	0.50
1:B:369:VAL:N	1:B:405:VAL:O	2.44	0.50
1:B:590:ALA:O	1:B:593:SER:OG	2.28	0.50
1:B:969:PRO:HB2	1:B:1014:ARG:HD3	1.94	0.50
1:C:576:GLN:HE21	1:C:757:THR:HG21	1.76	0.50
1:C:1225:SER:O	1:C:1229:THR:HG23	2.12	0.50
1:A:639:ASN:OD1	1:A:640:GLU:N	2.43	0.50
1:B:59:THR:O	1:B:59:THR:OG1	2.27	0.50
1:B:1112:ILE:HG13	1:B:1117:THR:HG23	1.92	0.50
1:C:164:LEU:HD11	1:C:166:TYR:CD1	2.47	0.50
1:C:185:GLY:O	1:C:772:LEU:HD13	2.12	0.50
1:D:476:VAL:N	1:D:526:ILE:O	2.40	0.50
1:D:538:ALA:HB3	1:D:558:TYR:HB2	1.93	0.50
1:A:912:LYS:N	1:A:1330:TYR:O	2.40	0.50
1:B:1077:ASN:OD1	1:B:1078:GLY:N	2.45	0.50
1:C:495:PHE:O	1:C:511:HIS:N	2.44	0.50
1:C:1107:ILE:HD13	1:C:1153:ALA:HA	1.93	0.50
1:D:546:LEU:HD23	1:D:550:ASP:N	2.27	0.50
1:D:975:GLN:O	1:D:978:VAL:N	2.45	0.50
1:A:919:LEU:HD23	1:A:920:LEU:N	2.26	0.50
1:A:1257:ALA:O	1:A:1261:LEU:HD12	2.12	0.50
1:B:812:ALA:CB	1:B:872:VAL:HG11	2.42	0.50
1:D:934:LYS:NZ	1:D:1308:LEU:O	2.23	0.50
1:A:346:THR:O	1:A:347:ILE:HD13	2.12	0.49
1:A:966:LEU:HD11	1:A:1000:ILE:HG12	1.93	0.49
1:A:1152:TYR:OH	1:A:1214:LEU:HD22	2.11	0.49
1:B:812:ALA:HB2	1:B:872:VAL:HG11	1.94	0.49
1:D:168:GLN:NE2	1:D:169:ASP:O	2.44	0.49
1:D:318:MET:HB3	1:D:320:LEU:HD21	1.94	0.49
1:A:730:THR:OG1	1:A:896:LYS:O	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167:ILE:HG23	1:B:204:LYS:O	2.11	0.49
1:C:565:ALA:HB3	1:C:776:ALA:O	2.12	0.49
1:D:881:GLU:OE1	1:D:881:GLU:N	2.46	0.49
1:A:1070:LEU:CD1	1:A:1109:LEU:HD21	2.40	0.49
1:B:581:SER:O	1:B:757:THR:N	2.41	0.49
1:D:42:GLU:N	1:D:91:VAL:O	2.39	0.49
1:C:744:VAL:HG23	1:C:751:VAL:HG11	1.94	0.49
1:A:33:VAL:C	1:A:34:LEU:HD12	2.33	0.49
1:A:305:LYS:CE	1:A:308:VAL:HG23	2.41	0.49
1:A:978:VAL:HG22	1:A:1251:THR:HG21	1.94	0.49
1:B:414:VAL:HG21	1:C:646:HIS:HB3	1.94	0.49
1:C:107:VAL:HG11	1:C:112:GLN:HG3	1.94	0.49
1:C:648:VAL:HG21	1:C:657:PRO:O	2.12	0.49
1:A:187:LEU:HD13	1:A:743:LEU:HD21	1.94	0.49
1:B:414:VAL:HG11	1:C:647:ASN:H	1.78	0.49
1:C:437:VAL:HG11	1:D:278:CYS:CB	2.41	0.49
1:C:535:ALA:HB1	1:C:536:PRO:HD2	1.95	0.49
1:C:1307:GLU:OE2	1:C:1312:TYR:OH	2.30	0.49
1:D:1416:LEU:O	1:D:1417:ILE:HD13	2.13	0.49
1:A:912:LYS:HG2	1:A:1330:TYR:O	2.12	0.49
1:B:122:VAL:O	1:B:122:VAL:CG2	2.60	0.49
1:B:151:MET:CE	1:B:778:LEU:HD13	2.43	0.49
1:D:1278:VAL:N	1:D:1290:PHE:O	2.45	0.49
1:A:911:GLU:OE2	1:A:1331:ASN:ND2	2.45	0.49
1:A:1235:VAL:HG22	1:A:1261:LEU:CD2	2.42	0.49
1:C:384:ILE:HD11	1:C:405:VAL:HG13	1.94	0.49
1:C:964:ASN:O	1:C:966:LEU:N	2.45	0.49
1:D:270:ARG:O	1:D:285:ALA:N	2.45	0.49
1:D:352:PHE:HA	1:D:369:VAL:HG22	1.94	0.49
1:D:650:ILE:HD11	1:D:659:SER:H	1.78	0.49
1:A:72:SER:O	1:A:73:LEU:HD23	2.12	0.49
1:A:267:SER:O	1:A:321:HIS:N	2.45	0.49
1:A:876:ALA:HB1	1:A:889:SER:OG	2.11	0.49
1:B:420:THR:OG1	1:B:422:ARG:NH1	2.45	0.49
1:B:735:PHE:CD1	1:B:735:PHE:O	2.66	0.49
1:C:32:MET:HG2	1:C:34:LEU:HD11	1.95	0.49
1:C:1103:ALA:HB3	1:C:1149:LEU:HD21	1.95	0.49
1:D:733:LYS:NZ	1:D:734:TYR:O	2.28	0.49
1:D:811:LYS:NZ	1:D:813:THR:OG1	2.45	0.49
1:D:936:PRO:HB2	1:D:939:VAL:HG11	1.94	0.49
1:D:1047:LYS:N	1:D:1111:GLU:OE1	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1390:ILE:O	1:D:1434:LEU:N	2.43	0.49
1:A:453:SER:OG	1:A:456:LYS:N	2.46	0.49
5:B:2001:NAG:O3	5:B:2001:NAG:H82	2.13	0.49
1:D:599:ALA:HB3	1:D:740:ILE:HB	1.95	0.49
1:D:975:GLN:CD	1:D:975:GLN:N	2.66	0.49
1:B:1042:THR:HA	1:B:1045:VAL:HG22	1.93	0.48
1:C:134:ASP:OD1	1:C:135:LYS:NZ	2.46	0.48
1:D:77:LEU:HD21	1:D:87:VAL:HG11	1.95	0.48
1:A:387:ARG:HG2	1:A:387:ARG:NH1	2.28	0.48
1:B:736:PRO:C	1:B:738:THR:N	2.66	0.48
1:B:870:PHE:HE2	1:B:872:VAL:HG13	1.78	0.48
1:B:1027:THR:HG21	1:B:1087:LEU:HD11	1.94	0.48
1:C:585:LEU:N	1:C:753:GLU:O	2.43	0.48
1:D:1175:VAL:O	1:D:1181:VAL:HG13	2.13	0.48
1:B:62:ALA:HB3	1:B:75:THR:HB	1.95	0.48
1:B:539:ARG:NH1	1:B:672:ASP:O	2.46	0.48
1:B:1226:GLU:O	1:B:1229:THR:OG1	2.26	0.48
1:C:357:SER:O	1:C:448:ALA:HB1	2.12	0.48
1:C:1118:HIS:CE1	1:C:1120:VAL:HG23	2.48	0.48
1:D:63:SER:C	1:D:64:LEU:HD12	2.33	0.48
1:D:103:LEU:HD23	1:D:104:THR:N	2.27	0.48
1:D:176:ALA:HB2	1:D:192:PHE:CE1	2.48	0.48
1:D:1103:ALA:HB1	1:D:1149:LEU:HD12	1.93	0.48
1:D:1208:MET:O	1:D:1212:VAL:HG23	2.13	0.48
1:C:493:LEU:N	1:C:513:LEU:O	2.43	0.48
1:C:806:GLU:OE2	1:C:806:GLU:N	2.45	0.48
1:D:464:MET:O	1:D:466:HIS:N	2.47	0.48
1:A:421:VAL:HG13	1:A:444:ALA:HB3	1.96	0.48
1:A:634:LEU:HD23	1:A:634:LEU:H	1.79	0.48
1:B:358:HIS:HA	1:B:448:ALA:HB1	1.96	0.48
1:B:571:SER:O	1:B:586:ARG:N	2.46	0.48
1:C:233:VAL:HG23	1:C:338:ARG:NH2	2.28	0.48
1:A:568:VAL:HG23	1:A:589:ALA:HB2	1.94	0.48
1:A:650:ILE:HD12	1:A:656:THR:HG22	1.94	0.48
1:A:831:SER:OG	1:A:868:VAL:HG22	2.13	0.48
1:B:1205:GLU:O	1:B:1209:THR:OG1	2.12	0.48
1:D:68:ARG:HA	1:D:68:ARG:NH1	2.29	0.48
1:A:463:PRO:O	1:A:465:SER:N	2.47	0.48
1:B:493:LEU:HD11	1:B:545:VAL:O	2.13	0.48
1:C:206:VAL:HG13	1:C:216:GLU:HG3	1.95	0.48
1:D:268:ILE:HA	1:D:320:LEU:HD22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:381:ASN:H	1:D:399:THR:HG23	1.78	0.48
1:D:835:LEU:O	1:D:860:VAL:HG23	2.13	0.48
1:D:1276:ALA:HB3	1:D:1292:VAL:HB	1.96	0.48
1:B:927:VAL:O	1:B:1316:VAL:N	2.43	0.48
1:B:955:LEU:HD21	1:B:995:GLN:CD	2.34	0.48
1:B:1083:SER:N	1:D:638:ASP:OD2	2.47	0.48
1:D:386:ILE:HA	1:D:421:VAL:HG13	1.96	0.48
1:D:597:LEU:N	1:D:742:ASP:O	2.41	0.48
1:D:985:TYR:O	1:D:987:LEU:N	2.46	0.48
1:D:1301:GLN:OE1	1:D:1301:GLN:N	2.47	0.48
1:A:1227:ASP:OD1	1:A:1227:ASP:N	2.45	0.48
1:B:34:LEU:N	1:B:48:CYS:O	2.42	0.48
1:C:914:THR:HG21	1:C:935:LEU:CD1	2.43	0.48
1:C:1025:TYR:CB	1:C:1042:THR:HG22	2.44	0.48
1:D:382:LYS:O	1:D:398:THR:OG1	2.25	0.48
1:D:1012:TYR:C	1:D:1012:TYR:CD1	2.87	0.48
1:D:1390:ILE:N	1:D:1434:LEU:O	2.46	0.48
1:A:214:ARG:NH2	1:A:959:MET:SD	2.87	0.48
1:A:396:ASN:OD1	1:A:396:ASN:N	2.46	0.48
1:A:617:SER:OG	1:A:618:VAL:N	2.47	0.48
1:B:1180:SER:OG	1:B:1233:ASN:O	2.28	0.48
1:C:962:THR:O	1:C:963:GLN:NE2	2.45	0.48
1:D:33:VAL:HG12	1:D:678:PHE:HB2	1.95	0.48
1:D:1351:THR:OG1	1:D:1353:ASP:OD1	2.29	0.48
1:B:254:TYR:O	1:B:257:GLY:N	2.45	0.47
1:C:587:VAL:HG12	1:C:588:THR:N	2.29	0.47
1:C:1231:ALA:O	1:C:1235:VAL:HG23	2.14	0.47
1:D:642:CYS:SG	1:D:689:CYS:N	2.80	0.47
1:D:810:LEU:HG	1:D:810:LEU:O	2.14	0.47
1:D:903:LEU:O	1:D:903:LEU:HD12	2.13	0.47
1:D:1198:GLU:HB3	1:D:1199:PRO:HD2	1.96	0.47
1:C:493:LEU:O	1:C:513:LEU:N	2.45	0.47
1:D:58:VAL:O	1:D:79:ALA:HB3	2.14	0.47
1:D:167:ILE:HD12	1:D:176:ALA:HB3	1.96	0.47
1:D:803:ILE:HG22	1:D:804:ARG:H	1.79	0.47
1:D:1218:THR:HG23	1:D:1263:LYS:NZ	2.29	0.47
3:J:2:NAG:H3	3:J:2:NAG:H83	1.97	0.47
1:B:267:SER:HG	1:B:321:HIS:H	1.61	0.47
1:B:1123:ASN:ND2	1:D:119:THR:HG22	2.29	0.47
1:C:992:GLU:HA	1:C:992:GLU:OE1	2.13	0.47
1:D:914:THR:HG23	1:D:1330:TYR:CE1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:320:LEU:N	1:A:320:LEU:HD12	2.30	0.47
1:A:348:THR:N	1:A:373:ASP:OD1	2.47	0.47
1:A:1025:TYR:CD2	1:A:1042:THR:HG22	2.49	0.47
1:B:318:MET:HB3	1:B:320:LEU:HD11	1.95	0.47
1:C:1109:LEU:HD13	1:C:1112:ILE:CD1	2.42	0.47
1:C:1213:LEU:HB2	1:C:1234:ILE:HD11	1.96	0.47
1:A:162:ILE:N	1:A:181:PHE:O	2.42	0.47
1:A:649:TYR:OH	1:A:651:ASN:ND2	2.47	0.47
1:A:947:SER:N	1:A:1327:SER:O	2.44	0.47
1:B:38:LEU:HD22	1:B:40:HIS:CD2	2.50	0.47
1:B:38:LEU:HD23	1:B:39:LEU:N	2.30	0.47
1:B:176:ALA:HB2	1:B:192:PHE:CE1	2.49	0.47
1:B:540:LEU:O	1:B:556:ALA:N	2.47	0.47
1:B:914:THR:O	1:B:1327:SER:OG	2.24	0.47
1:C:368:GLN:OE1	1:C:406:GLN:NE2	2.46	0.47
1:C:1142:SER:O	1:C:1144:VAL:HG22	2.14	0.47
1:D:270:ARG:NH1	1:D:309:PHE:O	2.44	0.47
1:D:353:VAL:HG21	1:D:404:LEU:HD23	1.96	0.47
1:D:986:VAL:HG23	1:D:987:LEU:HD22	1.96	0.47
1:A:55:ASN:C	1:A:57:THR:H	2.18	0.47
1:A:63:SER:C	1:A:64:LEU:HD12	2.35	0.47
1:A:118:THR:HG23	1:A:120:VAL:HG23	1.97	0.47
1:A:954:ILE:CG1	1:A:993:THR:HG22	2.44	0.47
1:A:1175:VAL:HG12	1:A:1175:VAL:O	2.14	0.47
1:D:608:LYS:NZ	1:D:611:ALA:HB3	2.29	0.47
1:A:1019:LYS:NZ	1:A:1020:HIS:O	2.37	0.47
1:A:1025:TYR:HB2	1:A:1041:LEU:HD21	1.96	0.47
1:B:165:VAL:HG21	1:B:181:PHE:CZ	2.49	0.47
1:C:311:LEU:HD23	1:C:311:LEU:H	1.80	0.47
1:C:336:THR:O	1:C:336:THR:OG1	2.29	0.47
1:C:614:SER:OG	1:C:617:SER:N	2.44	0.47
1:C:980:PHE:HE1	1:C:1008:LEU:HD22	1.79	0.47
1:C:1326:THR:HG22	1:C:1327:SER:N	2.30	0.47
1:D:854:GLN:O	1:D:856:VAL:N	2.48	0.47
1:D:1015:GLN:HA	1:D:1015:GLN:HE21	1.80	0.47
1:D:1191:ALA:HB3	1:D:1192:PRO:HD3	1.97	0.47
1:A:215:THR:HG22	1:A:216:GLU:H	1.79	0.47
1:A:974:GLU:HB3	1:A:1091:ILE:HD13	1.96	0.47
1:B:920:LEU:HD11	1:B:929:GLU:HB2	1.97	0.47
1:B:954:ILE:HD11	1:B:989:TYR:CE1	2.50	0.47
1:B:969:PRO:HG3	1:B:1010:THR:HG22	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:241:ILE:CG1	1:C:347:ILE:HD13	2.44	0.47
1:C:319:LYS:C	1:C:320:LEU:HD12	2.35	0.47
1:D:176:ALA:HB1	1:D:178:TRP:CZ3	2.50	0.47
1:D:826:VAL:HG11	1:D:856:VAL:CG1	2.44	0.47
1:A:143:THR:HA	1:A:193:PRO:HA	1.97	0.47
1:A:209:LYS:O	1:A:212:GLY:N	2.42	0.47
1:A:581:SER:O	1:A:582:HIS:C	2.53	0.47
1:A:920:LEU:HD22	1:A:927:VAL:HG12	1.97	0.47
1:B:127:SER:OG	1:B:128:LEU:N	2.47	0.47
1:B:368:GLN:OE1	1:B:404:LEU:HD22	2.15	0.47
1:B:1183:TRP:CE3	1:B:1212:VAL:HG11	2.50	0.47
1:B:1204:ALA:HB1	1:B:1207:GLU:OE2	2.15	0.47
1:C:41:THR:HG23	1:C:124:ASN:HA	1.96	0.47
1:A:919:LEU:HD13	1:A:1228:LEU:CB	2.45	0.47
1:A:1181:VAL:CG2	1:A:1234:ILE:HG23	2.35	0.47
1:B:272:TYR:N	1:B:283:SER:O	2.45	0.47
1:B:643:ILE:O	1:B:643:ILE:HG22	2.15	0.47
1:B:781:SER:OG	1:B:782:SER:N	2.45	0.47
1:B:1304:SER:C	1:B:1305:LEU:HD12	2.35	0.47
1:D:348:THR:HG1	1:D:441:HIS:CE1	2.30	0.47
1:D:1238:ILE:HD13	1:D:1241:GLN:OE1	2.15	0.47
1:A:622:LEU:HD23	1:A:625:LYS:HG2	1.98	0.46
1:B:102:PHE:CE1	1:B:119:THR:HG22	2.50	0.46
1:D:233:VAL:HG23	1:D:250:VAL:CG2	2.44	0.46
1:D:975:GLN:O	1:D:976:ASN:C	2.53	0.46
1:D:1013:GLN:HE21	1:D:1013:GLN:CA	2.09	0.46
1:A:1027:THR:CG2	1:A:1087:LEU:HD12	2.46	0.46
1:A:1070:LEU:HD22	1:A:1080:PHE:CZ	2.51	0.46
1:C:67:VAL:HG13	1:C:68:ARG:N	2.29	0.46
1:C:235:VAL:O	1:C:338:ARG:NE	2.49	0.46
1:C:319:LYS:HE3	1:C:339:GLN:HB2	1.96	0.46
1:C:1278:VAL:O	1:C:1279:THR:OG1	2.34	0.46
1:D:198:PRO:HG2	1:D:221:VAL:HG11	1.98	0.46
1:D:347:ILE:O	1:D:348:THR:OG1	2.33	0.46
1:D:597:LEU:HD21	1:D:753:GLU:HG3	1.97	0.46
1:D:766:LYS:NZ	1:D:767:ALA:O	2.49	0.46
1:D:798:MET:CE	1:D:1390:ILE:HD12	2.46	0.46
1:D:1142:SER:O	1:D:1144:VAL:HG22	2.16	0.46
1:A:602:GLN:CA	1:A:605:LEU:HB3	2.46	0.46
1:C:1151:ALA:HB2	1:C:1166:VAL:HG13	1.97	0.46
1:D:75:THR:HG21	1:D:89:PHE:HB3	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:344:THR:O	1:D:344:THR:OG1	2.31	0.46
1:D:601:ASP:OD1	1:D:602:GLN:N	2.44	0.46
1:A:483:ASN:O	1:A:485:GLY:N	2.44	0.46
1:C:816:ASN:HB2	1:C:848:ILE:HD12	1.97	0.46
1:A:144:VAL:N	1:A:192:PHE:O	2.46	0.46
1:A:989:TYR:CZ	1:A:993:THR:HG21	2.50	0.46
1:A:1025:TYR:CE2	1:A:1045:VAL:HG21	2.51	0.46
1:A:1051:GLN:O	1:A:1054:ALA:HB3	2.16	0.46
1:A:1072:GLN:OE1	1:C:635:ASN:ND2	2.48	0.46
1:B:360:ARG:HG2	1:B:451:VAL:HG12	1.97	0.46
1:B:793:PHE:O	1:B:814:VAL:HG23	2.15	0.46
1:B:892:GLU:O	1:B:895:ARG:N	2.48	0.46
1:B:1124:ALA:HA	1:D:117:ARG:HD3	1.98	0.46
1:C:767:ALA:HB3	1:C:784:ALA:HB3	1.98	0.46
1:C:1232:THR:OG1	1:C:1264:TYR:OH	2.30	0.46
1:D:119:THR:O	1:D:676:LYS:NZ	2.42	0.46
1:D:456:LYS:O	1:D:483:ASN:ND2	2.49	0.46
1:D:914:THR:O	1:D:1328:LEU:N	2.45	0.46
1:D:1156:LEU:O	1:D:1220:GLN:NE2	2.49	0.46
1:A:58:VAL:HG22	1:A:109:GLY:CA	2.45	0.46
1:B:388:GLY:O	1:B:393:TYR:N	2.47	0.46
1:B:570:LEU:HD22	1:B:784:ALA:HB2	1.98	0.46
1:B:664:LYS:NZ	1:B:665:ASP:O	2.46	0.46
1:B:954:ILE:HD11	1:B:989:TYR:HE1	1.81	0.46
1:B:1219:ALA:HB3	1:B:1222:ALA:C	2.36	0.46
1:D:262:GLY:O	1:D:294:LEU:N	2.48	0.46
1:D:546:LEU:HD23	1:D:550:ASP:H	1.81	0.46
1:D:975:GLN:O	1:D:978:VAL:HG22	2.16	0.46
1:A:164:LEU:HD12	1:A:165:VAL:H	1.81	0.46
1:B:111:THR:HB	5:B:2001:NAG:H2	1.98	0.46
1:B:563:CYS:N	1:B:619:TYR:OH	2.48	0.46
1:B:827:GLN:O	1:B:873:SER:N	2.47	0.46
1:B:1123:ASN:HD22	1:D:119:THR:HG22	1.81	0.46
1:B:1232:THR:OG1	1:B:1264:TYR:OH	2.34	0.46
1:D:167:ILE:HD12	1:D:176:ALA:CB	2.46	0.46
1:D:428:ARG:NH1	1:D:432:TYR:O	2.49	0.46
1:D:1147:LYS:NZ	1:D:1170:LEU:O	2.49	0.46
1:D:1214:LEU:O	1:D:1263:LYS:NZ	2.48	0.46
5:A:2005:NAG:H3	5:A:2005:NAG:H83	1.98	0.46
1:C:1259:HIS:O	1:C:1262:SER:OG	2.32	0.46
1:D:570:LEU:HB3	1:D:587:VAL:HG22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:972:CYS:H	1:D:975:GLN:HG2	1.80	0.46
1:D:1061:ALA:HA	1:D:1064:THR:HG22	1.98	0.46
3:H:2:NAG:C8	3:H:2:NAG:C1	2.94	0.46
1:A:117:ARG:NE	1:C:1071:SER:O	2.45	0.46
1:A:810:LEU:HB2	1:A:860:VAL:HG12	1.97	0.46
1:B:596:ALA:HB1	1:B:741:TRP:CH2	2.50	0.46
1:C:763:THR:OG1	1:C:764:GLU:N	2.49	0.46
1:C:1099:VAL:CG1	1:C:1146:THR:HG22	2.46	0.46
1:D:454:PRO:O	1:D:456:LYS:NZ	2.45	0.46
1:D:794:VAL:HG21	1:D:872:VAL:HG11	1.98	0.46
1:D:1004:ALA:O	1:D:1008:LEU:HG	2.16	0.46
3:M:1:NAG:HO3	3:M:1:NAG:C7	2.29	0.46
1:A:241:ILE:HD11	1:A:345:ARG:HA	1.98	0.46
1:A:880:GLN:HG2	1:A:887:VAL:HG11	1.98	0.46
1:A:1070:LEU:HD22	1:A:1080:PHE:CE2	2.51	0.46
1:A:1088:ASN:OD1	1:A:1088:ASN:N	2.47	0.46
1:B:1161:ASP:N	1:B:1161:ASP:OD1	2.49	0.46
1:C:263:HIS:NE2	1:C:291:SER:OG	2.48	0.46
1:C:388:GLY:HA3	1:C:391:ALA:HB3	1.98	0.46
1:C:767:ALA:HB3	1:C:784:ALA:H	1.81	0.46
1:C:869:ASN:N	1:C:869:ASN:ND2	2.64	0.46
1:D:1014:ARG:CB	1:D:1014:ARG:NH1	2.79	0.46
1:D:1028:PHE:O	1:D:1031:ARG:NH2	2.49	0.46
1:D:1251:THR:HG21	1:D:1407:ARG:HE	1.81	0.46
1:D:1408:THR:HA	1:D:1417:ILE:HD11	1.97	0.46
1:A:51:LEU:O	1:A:82:ASP:N	2.41	0.45
1:B:1210:SER:O	1:B:1214:LEU:N	2.49	0.45
1:D:82:ASP:O	1:D:496:TYR:OH	2.25	0.45
1:D:633:PRO:C	1:D:634:LEU:HD12	2.36	0.45
1:D:917:ASN:OD1	1:D:1174:ALA:HB3	2.16	0.45
1:D:1251:THR:HG21	1:D:1407:ARG:HG2	1.96	0.45
1:D:1345:VAL:HG23	1:D:1365:LEU:CD1	2.46	0.45
1:A:164:LEU:HD21	1:A:166:TYR:CD1	2.52	0.45
1:A:386:ILE:HD13	1:A:407:PHE:CB	2.46	0.45
1:A:1208:MET:O	1:A:1212:VAL:HG23	2.17	0.45
1:B:241:ILE:HG21	1:B:439:GLU:OE1	2.16	0.45
1:C:275:ALA:O	1:C:276:SER:OG	2.35	0.45
1:C:1227:ASP:OD1	1:C:1227:ASP:N	2.49	0.45
1:D:351:SER:O	1:D:369:VAL:HG13	2.17	0.45
1:D:810:LEU:HD23	1:D:810:LEU:H	1.81	0.45
1:D:989:TYR:HD1	1:D:989:TYR:N	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:489:GLY:O	1:A:490:LEU:HD12	2.17	0.45
1:A:581:SER:CA	1:A:756:VAL:HG13	2.46	0.45
1:A:1070:LEU:HD11	1:A:1109:LEU:HD11	1.99	0.45
1:A:489:GLY:C	1:A:490:LEU:HD12	2.37	0.45
1:B:350:LEU:CD1	1:B:444:ALA:HB2	2.47	0.45
1:B:390:GLU:OE1	1:B:390:GLU:HA	2.16	0.45
1:B:596:ALA:HB1	1:B:741:TRP:HH2	1.81	0.45
1:B:1070:LEU:HD22	1:B:1120:VAL:HG11	1.97	0.45
1:B:1202:PRO:O	1:B:1203:SER:OG	2.30	0.45
1:C:384:ILE:HD11	1:C:405:VAL:HG11	1.99	0.45
5:C:2001:NAG:C7	5:C:2001:NAG:HO3	2.29	0.45
1:D:601:ASP:OD2	1:D:763:THR:HG21	2.16	0.45
1:D:1185:ARG:CB	1:D:1186:PRO:CD	2.90	0.45
1:A:127:SER:O	1:A:209:LYS:NZ	2.50	0.45
1:A:554:ASP:N	1:A:554:ASP:OD1	2.50	0.45
1:A:600:VAL:N	1:A:766:LYS:O	2.46	0.45
1:A:1039:THR:O	1:A:1042:THR:OG1	2.26	0.45
1:A:1057:PHE:CD1	1:C:1005:ILE:HD13	2.52	0.45
1:B:571:SER:OG	1:B:572:PHE:N	2.50	0.45
1:B:953:ASP:OD2	1:B:1264:TYR:OH	2.34	0.45
1:C:248:VAL:N	1:C:302:GLN:O	2.48	0.45
1:C:1205:GLU:HG3	1:C:1206:VAL:HG23	1.98	0.45
1:A:1278:VAL:HG22	1:A:1290:PHE:O	2.17	0.45
1:B:33:VAL:HG12	1:B:49:VAL:CG2	2.45	0.45
1:B:963:GLN:O	1:B:966:LEU:HD12	2.17	0.45
1:C:450:LEU:O	1:C:664:LYS:N	2.40	0.45
1:C:1333:LEU:HD13	1:C:1336:LYS:HE2	1.99	0.45
1:D:121:MET:SD	1:D:634:LEU:HD21	2.57	0.45
1:A:566:ASN:HB2	1:A:776:ALA:HB1	1.98	0.45
1:B:98:GLU:OE2	1:B:123:LYS:HE2	2.16	0.45
1:B:770:PHE:CE1	1:B:778:LEU:HD12	2.52	0.45
1:B:793:PHE:HZ	1:B:815:LEU:HD22	1.82	0.45
1:C:66:SER:HG	1:C:101:MET:HA	1.82	0.45
1:C:920:LEU:HD22	1:C:927:VAL:HG11	1.99	0.45
1:C:948:VAL:CG1	1:C:1305:LEU:HD11	2.47	0.45
1:C:992:GLU:O	1:C:1271:ARG:NH2	2.49	0.45
1:D:346:THR:O	1:D:347:ILE:HD13	2.17	0.45
1:D:989:TYR:N	1:D:989:TYR:CD1	2.84	0.45
1:A:686:PRO:O	1:A:687:LYS:C	2.54	0.45
1:A:972:CYS:O	1:A:976:ASN:N	2.39	0.45
1:B:792:PHE:CE2	1:B:824:VAL:HG21	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:955:LEU:HD21	1:B:995:GLN:NE2	2.32	0.45
1:C:41:THR:OG1	1:C:125:GLU:OE1	2.30	0.45
1:C:108:LYS:HA	1:C:108:LYS:CE	2.38	0.45
1:C:174:ARG:HG3	1:C:1298:LEU:HD23	1.99	0.45
1:C:585:LEU:HD21	1:C:587:VAL:CG2	2.46	0.45
1:C:597:LEU:CB	1:C:740:ILE:HG21	2.47	0.45
1:C:927:VAL:HG12	1:C:928:SER:N	2.31	0.45
1:D:1278:VAL:HG13	1:D:1316:VAL:HG12	1.99	0.45
1:D:1341:PHE:CB	1:D:1459:ALA:HB1	2.47	0.45
1:A:142:GLN:O	1:A:194:LEU:N	2.49	0.45
1:A:353:VAL:HG21	1:A:404:LEU:HD21	1.98	0.45
1:A:654:THR:OG1	1:A:655:TYR:N	2.50	0.45
1:B:319:LYS:CA	1:B:320:LEU:HD12	2.47	0.45
1:C:936:PRO:HA	1:C:939:VAL:HG11	1.98	0.45
1:D:325:GLN:OE1	1:D:325:GLN:N	2.49	0.45
1:A:237:LYS:HB2	1:A:338:ARG:CG	2.47	0.45
1:A:535:ALA:HB3	1:A:537:VAL:HG12	1.99	0.45
1:A:619:TYR:O	1:A:622:LEU:HB3	2.17	0.45
1:B:948:VAL:HG21	1:B:1324:LEU:HD23	1.99	0.45
1:C:914:THR:HG22	1:C:933:LEU:HD13	1.99	0.45
1:D:129:VAL:HG12	1:D:150:SER:CB	2.47	0.45
1:D:263:HIS:HA	1:D:293:GLN:HA	2.00	0.45
4:L:2:NAG:H3	4:L:2:NAG:H82	1.97	0.45
1:A:581:SER:HB2	1:A:756:VAL:CG2	2.47	0.44
1:B:372:VAL:HG12	1:B:373:ASP:N	2.32	0.44
1:B:917:ASN:OD1	1:B:917:ASN:N	2.50	0.44
1:D:922:PRO:HG3	1:D:1316:VAL:HG23	1.99	0.44
1:D:937:PRO:O	1:D:1332:ILE:HG22	2.17	0.44
1:B:155:PHE:HB3	1:B:778:LEU:HD22	1.98	0.44
1:B:1053:ARG:HG3	1:B:1058:ILE:HG22	2.00	0.44
1:C:247:ASN:OD1	1:C:247:ASN:N	2.49	0.44
1:C:1272:THR:HG22	1:C:1273:GLY:H	1.82	0.44
1:D:373:ASP:OD1	1:D:373:ASP:N	2.48	0.44
1:D:1213:LEU:HD23	1:D:1260:ALA:HA	2.00	0.44
1:D:1252:GLN:O	1:D:1255:VAL:HG13	2.16	0.44
1:A:129:VAL:HG12	1:A:150:SER:CB	2.48	0.44
1:A:137:ILE:HD11	1:A:222:GLU:H	1.81	0.44
1:A:245:GLU:OE1	1:A:246:MET:N	2.50	0.44
1:A:613:LEU:O	1:A:614:SER:OG	2.29	0.44
1:B:264:VAL:O	1:B:265:THR:OG1	2.25	0.44
1:B:914:THR:OG1	1:B:1328:LEU:O	2.34	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:540:LEU:HD23	1:C:558:TYR:HE2	1.82	0.44
5:C:2005:NAG:HO3	5:C:2005:NAG:C7	2.30	0.44
1:D:33:VAL:HG13	1:D:33:VAL:O	2.17	0.44
1:D:75:THR:HG21	1:D:89:PHE:CB	2.47	0.44
1:D:915:THR:OG1	1:D:1326:THR:O	2.32	0.44
1:D:1175:VAL:HG21	1:D:1186:PRO:CD	2.38	0.44
1:A:233:VAL:O	1:A:338:ARG:NH1	2.51	0.44
1:B:760:ASP:HB3	1:B:899:VAL:HG13	2.00	0.44
1:B:1051:GLN:O	1:B:1054:ALA:HB3	2.18	0.44
1:C:131:VAL:HG22	1:C:148:VAL:HB	1.98	0.44
1:D:570:LEU:HD11	1:D:784:ALA:HB1	1.98	0.44
1:D:599:ALA:HB3	1:D:740:ILE:CB	2.46	0.44
1:A:35:VAL:HG21	1:A:103:LEU:HD22	1.99	0.44
1:A:1293:ASP:N	1:A:1296:ASN:OD1	2.50	0.44
1:D:460:HIS:O	1:D:479:HIS:N	2.50	0.44
1:A:94:SER:N	1:A:124:ASN:OD1	2.50	0.44
1:A:318:MET:CG	1:A:320:LEU:HD11	2.47	0.44
1:A:1132:TRP:HD1	1:A:1150:LEU:HD13	1.81	0.44
1:A:1185:ARG:O	1:A:1187:GLN:N	2.43	0.44
1:B:1100:THR:CG2	1:B:1146:THR:HG22	2.45	0.44
1:C:353:VAL:HG13	1:C:370:ARG:HB2	1.99	0.44
1:C:1238:ILE:O	1:C:1242:GLN:N	2.46	0.44
1:D:996:LEU:HD23	1:D:997:THR:C	2.37	0.44
1:A:739:TRP:O	1:A:740:ILE:HD13	2.18	0.44
1:A:1047:LYS:HG3	1:A:1048:THR:HG23	2.00	0.44
1:B:323:GLU:N	1:B:323:GLU:OE2	2.51	0.44
1:B:570:LEU:HA	1:B:587:VAL:HG22	1.99	0.44
1:B:823:ARG:NH1	1:B:845:PRO:O	2.51	0.44
1:B:1088:ASN:N	1:B:1088:ASN:OD1	2.50	0.44
1:C:821:CYS:SG	1:C:849:CYS:N	2.91	0.44
1:C:946:ALA:HB1	1:C:1326:THR:HG21	1.99	0.44
1:C:948:VAL:HG22	1:C:1303:VAL:HG22	1.99	0.44
1:C:1128:LEU:HD11	1:C:1153:ALA:HB1	1.99	0.44
1:A:372:VAL:HG12	1:A:373:ASP:N	2.33	0.44
1:A:437:VAL:HG22	1:B:276:SER:HB2	1.98	0.44
1:A:818:LEU:O	1:A:850:ALA:N	2.50	0.44
1:B:370:ARG:HB3	1:B:404:LEU:HD23	1.99	0.44
1:B:1112:ILE:HG23	1:B:1112:ILE:O	2.17	0.44
1:C:890:VAL:HG13	1:C:890:VAL:O	2.18	0.44
1:C:910:LEU:HD22	1:C:912:LYS:HD2	1.99	0.44
1:C:1144:VAL:HG23	1:C:1145:TYR:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:609:PRO:O	1:D:611:ALA:N	2.50	0.44
1:D:763:THR:HG23	1:D:765:TRP:CE2	2.53	0.44
1:A:366:PHE:HB3	1:A:408:SER:CB	2.47	0.44
1:A:597:LEU:O	1:A:599:ALA:N	2.51	0.44
1:A:966:LEU:CD2	1:A:1004:ALA:HB2	2.48	0.44
1:B:151:MET:HE2	1:B:778:LEU:HD13	2.00	0.44
1:C:51:LEU:O	1:C:82:ASP:N	2.50	0.44
1:C:1181:VAL:HG22	1:C:1233:ASN:HB2	2.00	0.44
1:C:1250:SER:OG	1:C:1253:ASP:OD1	2.22	0.44
5:C:2003:NAG:H3	5:C:2003:NAG:H82	2.00	0.44
1:D:1187:GLN:CA	1:D:1187:GLN:NE2	2.81	0.44
1:D:1319:GLU:N	1:D:1319:GLU:OE1	2.51	0.44
1:A:358:HIS:N	1:A:448:ALA:HB1	2.33	0.43
1:A:1173:GLU:O	1:A:1176:LYS:NZ	2.46	0.43
1:A:1238:ILE:HG13	1:A:1261:LEU:HD11	2.00	0.43
1:B:173:ASN:N	1:B:173:ASN:OD1	2.51	0.43
1:B:240:THR:OG1	1:B:241:ILE:N	2.50	0.43
1:C:245:GLU:OE1	1:C:303:GLN:NE2	2.51	0.43
1:C:569:ASP:OD1	1:C:570:LEU:N	2.51	0.43
1:C:1038:ASN:O	1:C:1042:THR:HG23	2.18	0.43
1:D:493:LEU:HD12	1:D:494:SER:H	1.82	0.43
1:D:860:VAL:HG22	1:D:862:PRO:HD3	2.00	0.43
1:D:1104:TYR:HD1	1:D:1149:LEU:HD11	1.83	0.43
1:A:240:THR:HA	1:A:343:ILE:HG23	2.00	0.43
1:B:1327:SER:OG	1:B:1328:LEU:N	2.51	0.43
1:C:47:GLY:HA2	1:C:505:ILE:HD12	2.00	0.43
1:D:241:ILE:CD1	1:D:347:ILE:HD11	2.48	0.43
1:A:912:LYS:HG3	1:A:1330:TYR:CZ	2.53	0.43
1:B:120:VAL:HG12	1:B:121:MET:H	1.83	0.43
1:B:208:GLN:HB2	1:B:214:ARG:HE	1.83	0.43
1:B:264:VAL:HG21	1:B:300:PHE:CD2	2.54	0.43
1:B:746:VAL:HG13	1:B:750:GLY:HA2	2.00	0.43
1:B:948:VAL:HG23	1:B:1326:THR:OG1	2.18	0.43
1:B:998:PRO:HA	1:B:1001:LYS:HB3	1.99	0.43
1:B:1072:GLN:NE2	1:D:629:GLY:O	2.51	0.43
1:A:66:SER:OG	1:A:99:GLU:OE2	2.34	0.43
1:A:228:LYS:O	1:A:255:THR:HG23	2.18	0.43
1:A:1026:SER:OG	1:A:1027:THR:N	2.49	0.43
1:B:42:GLU:OE2	1:B:125:GLU:HB3	2.18	0.43
1:B:266:VAL:HG22	1:B:267:SER:N	2.33	0.43
1:B:390:GLU:HB3	1:B:414:VAL:HG22	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1100:THR:HG21	1:B:1145:TYR:CZ	2.53	0.43
1:C:762:ILE:HG21	1:C:789:PHE:C	2.38	0.43
1:C:814:VAL:HG11	1:C:824:VAL:HG21	2.00	0.43
1:D:306:THR:HG22	1:D:309:PHE:CD2	2.53	0.43
1:A:44:THR:HA	1:A:90:ALA:HB2	1.99	0.43
1:A:414:VAL:HG21	1:D:649:TYR:CD1	2.53	0.43
1:A:635:ASN:OD1	1:A:635:ASN:N	2.48	0.43
1:A:790:GLN:NE2	1:A:897:ASP:OD1	2.51	0.43
1:A:1067:LEU:CD1	1:A:1109:LEU:HD11	2.49	0.43
1:A:1131:ALA:HA	1:A:1134:THR:HG22	2.01	0.43
1:B:130:PHE:O	1:B:148:VAL:HG23	2.17	0.43
1:B:951:LEU:HD12	1:B:1298:LEU:CD2	2.48	0.43
1:B:1130:SER:O	1:B:1134:THR:HG23	2.17	0.43
1:C:118:THR:HG22	1:C:678:PHE:HZ	1.83	0.43
1:C:139:LYS:HG2	1:C:142:GLN:CG	2.48	0.43
1:C:497:TYR:CD2	1:C:526:ILE:HD11	2.54	0.43
1:C:546:LEU:HB3	1:C:548:THR:HG22	2.00	0.43
1:C:575:SER:OG	1:C:787:ARG:O	2.29	0.43
1:C:948:VAL:CG2	1:C:1303:VAL:HG22	2.49	0.43
1:A:233:VAL:HG11	1:A:250:VAL:HG23	1.99	0.43
1:A:503:GLY:HA2	1:A:627:LEU:HB3	2.01	0.43
1:A:810:LEU:N	1:A:858:TRP:O	2.46	0.43
1:A:1074:GLN:HB3	1:C:117:ARG:NH2	2.33	0.43
1:C:266:VAL:HG21	1:C:300:PHE:HE2	1.83	0.43
1:C:744:VAL:HB	1:C:751:VAL:HG21	2.01	0.43
1:C:796:LEU:HD23	1:C:872:VAL:HG21	2.00	0.43
1:C:1185:ARG:NH1	1:C:1201:ALA:HB1	2.33	0.43
1:C:1305:LEU:HD22	1:C:1312:TYR:CE2	2.54	0.43
1:D:492:LYS:NZ	1:D:513:LEU:HD12	2.33	0.43
1:A:932:SER:O	1:A:933:LEU:HD23	2.19	0.43
1:A:1073:ARG:NH1	1:C:636:ASP:OD1	2.51	0.43
1:B:41:THR:HG22	1:B:91:VAL:CG1	2.48	0.43
1:B:648:VAL:HG11	1:C:653:ILE:CD1	2.48	0.43
1:B:691:GLN:HG3	1:B:693:GLN:H	1.84	0.43
1:C:947:SER:C	1:C:1326:THR:HG23	2.39	0.43
1:C:996:LEU:HD12	1:C:996:LEU:HA	1.83	0.43
1:D:268:ILE:HD12	1:D:309:PHE:HZ	1.82	0.43
1:D:459:VAL:HG13	1:D:461:LEU:HD11	2.01	0.43
1:A:500:MET:HB2	1:A:504:GLY:O	2.19	0.43
1:A:570:LEU:CD2	1:A:784:ALA:HB2	2.46	0.43
1:A:678:PHE:O	1:A:679:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:986:VAL:HG22	1:A:1258:LEU:HD21	2.00	0.43
1:C:28:LYS:N	1:C:547:PRO:O	2.51	0.43
1:C:371:LEU:HD13	1:C:399:THR:HG21	2.00	0.43
1:C:624:GLU:HB3	1:C:627:LEU:CD1	2.46	0.43
1:C:1115:THR:HB	1:C:1117:THR:HG22	2.01	0.43
1:D:1015:GLN:HE21	1:D:1015:GLN:CA	2.31	0.43
1:A:97:ASN:O	1:A:124:ASN:N	2.49	0.43
1:A:545:VAL:O	1:A:545:VAL:HG13	2.19	0.43
1:A:670:LEU:O	1:A:674:GLY:N	2.49	0.43
1:A:1025:TYR:CE2	1:A:1045:VAL:HG11	2.54	0.43
1:A:1074:GLN:HB3	1:C:117:ARG:HH21	1.84	0.43
1:B:66:SER:O	1:B:66:SER:OG	2.31	0.43
1:B:1224:THR:OG1	1:B:1227:ASP:OD2	2.24	0.43
1:C:568:VAL:HG23	1:C:588:THR:O	2.19	0.43
1:D:965:LEU:HD13	1:D:1000:ILE:CD1	2.44	0.43
1:A:427:ASP:OD1	1:A:428:ARG:N	2.52	0.43
1:A:548:THR:HG23	1:A:550:ASP:H	1.84	0.43
1:A:989:TYR:O	1:A:993:THR:HG23	2.19	0.43
1:B:985:TYR:CE2	1:B:1255:VAL:HG13	2.54	0.43
1:B:1268:THR:HG22	1:B:1321:CYS:SG	2.59	0.43
1:C:491:LYS:HD3	1:C:514:LEU:HD11	2.01	0.43
1:C:527:SER:OG	1:C:528:ILE:N	2.51	0.43
1:D:519:ASP:OD1	1:D:519:ASP:N	2.52	0.43
1:D:959:MET:O	1:D:962:THR:HG23	2.19	0.43
1:D:1001:LYS:HA	1:D:1004:ALA:HB3	2.01	0.43
1:A:358:HIS:CA	1:A:448:ALA:HB1	2.49	0.42
1:A:663:GLU:O	1:A:685:LYS:NZ	2.52	0.42
1:A:1039:THR:O	1:A:1042:THR:N	2.52	0.42
1:B:133:THR:HG23	1:B:217:HIS:NE2	2.34	0.42
1:C:820:LYS:NZ	1:C:822:ILE:HD11	2.34	0.42
1:C:1112:ILE:HG21	1:C:1114:LEU:HD12	2.01	0.42
1:C:1147:LYS:HB2	1:C:1170:LEU:HD21	2.00	0.42
1:D:246:MET:O	1:D:304:VAL:N	2.45	0.42
1:D:872:VAL:HG12	1:D:899:VAL:HB	2.01	0.42
1:D:1014:ARG:HH11	1:D:1014:ARG:HB3	1.84	0.42
1:D:1016:LEU:C	1:D:1016:LEU:CD2	2.87	0.42
1:D:1032:TYR:HE2	1:D:1087:LEU:HD11	1.83	0.42
1:A:169:ASP:N	1:A:173:ASN:O	2.48	0.42
1:A:235:VAL:O	1:A:237:LYS:N	2.48	0.42
1:A:281:GLU:N	1:A:281:GLU:OE2	2.52	0.42
1:B:62:ALA:O	1:B:75:THR:N	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:468:LEU:HD13	1:B:559:ASP:O	2.19	0.42
1:C:1055:TYR:C	1:C:1056:ILE:HG23	2.39	0.42
1:C:1102:SER:HA	1:C:1105:ILE:HD12	2.01	0.42
1:D:1070:LEU:HD22	1:D:1105:ILE:HB	2.00	0.42
1:D:1179:ASN:OD1	1:D:1237:TRP:N	2.52	0.42
1:D:1238:ILE:CG2	1:D:1261:LEU:HD23	2.49	0.42
1:A:125:GLU:HG2	1:A:126:ASP:O	2.19	0.42
1:A:237:LYS:O	1:A:341:SER:OG	2.30	0.42
1:A:614:SER:N	1:A:617:SER:OG	2.50	0.42
1:A:794:VAL:CG1	1:A:899:VAL:HG23	2.50	0.42
1:A:919:LEU:HD13	1:A:1228:LEU:HB2	2.00	0.42
1:B:42:GLU:CD	1:B:125:GLU:HB3	2.39	0.42
1:B:568:VAL:HG21	1:B:589:ALA:HB2	2.00	0.42
1:B:753:GLU:OE2	1:B:755:GLY:N	2.51	0.42
1:B:1213:LEU:HB2	1:B:1234:ILE:HG21	2.00	0.42
1:B:1253:ASP:OD1	1:B:1254:THR:N	2.52	0.42
1:D:595:CYS:SG	1:D:596:ALA:N	2.92	0.42
1:D:763:THR:OG1	1:D:764:GLU:N	2.52	0.42
1:D:810:LEU:HD13	1:D:860:VAL:CG1	2.49	0.42
1:A:55:ASN:O	1:A:58:VAL:HG23	2.19	0.42
1:B:744:VAL:HG21	1:B:753:GLU:HB2	2.01	0.42
1:B:1298:LEU:O	1:B:1298:LEU:CD2	2.66	0.42
1:C:77:LEU:HD13	1:C:87:VAL:HB	2.01	0.42
1:C:730:THR:OG1	1:C:896:LYS:O	2.32	0.42
1:D:908:GLU:HG3	1:D:940:VAL:HG11	2.02	0.42
1:A:393:TYR:CD2	1:A:393:TYR:O	2.72	0.42
1:B:498:LEU:HD22	1:B:505:ILE:CG2	2.49	0.42
1:C:868:VAL:O	1:C:903:LEU:N	2.52	0.42
1:C:1110:LEU:HD21	1:C:1116:VAL:HA	2.01	0.42
1:D:290:PHE:HB2	1:D:304:VAL:HG12	2.01	0.42
1:D:744:VAL:HG11	1:D:753:GLU:CD	2.39	0.42
4:L:3:BMA:H62	4:L:4:MAN:H2	1.85	0.42
1:A:234:THR:O	1:A:234:THR:OG1	2.38	0.42
1:A:353:VAL:HG23	1:A:354:LYS:H	1.85	0.42
1:A:566:ASN:HB2	1:A:776:ALA:CB	2.49	0.42
1:A:583:ALA:HB3	1:A:755:GLY:C	2.40	0.42
1:A:585:LEU:HD21	1:A:739:TRP:CH2	2.55	0.42
1:A:810:LEU:O	1:A:858:TRP:N	2.50	0.42
1:B:1005:ILE:O	1:B:1009:ASN:ND2	2.46	0.42
1:B:1181:VAL:HG22	1:B:1233:ASN:HB3	2.02	0.42
1:B:1277:GLN:HB2	1:B:1317:THR:HG23	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:946:ALA:HB1	1:C:1326:THR:CG2	2.49	0.42
1:A:55:ASN:O	1:A:57:THR:N	2.52	0.42
1:A:343:ILE:O	1:A:344:THR:HG23	2.20	0.42
1:B:118:THR:HG21	1:B:676:LYS:HD3	2.02	0.42
1:B:468:LEU:HD21	1:B:558:TYR:HB3	2.02	0.42
1:B:823:ARG:NH1	1:B:825:SER:OG	2.52	0.42
1:B:868:VAL:HB	1:B:903:LEU:HD11	2.01	0.42
1:C:270:ARG:NH2	1:C:316:TYR:O	2.50	0.42
1:C:744:VAL:HG23	1:C:751:VAL:HG21	2.02	0.42
1:C:970:TYR:CE1	1:C:979:LEU:HD21	2.55	0.42
1:C:971:GLY:O	1:C:1018:TYR:OH	2.33	0.42
1:C:980:PHE:O	1:C:984:ILE:HD12	2.20	0.42
1:D:822:ILE:HG21	1:D:876:ALA:HB1	2.01	0.42
1:D:1363:ILE:HG22	1:D:1365:LEU:HD11	2.01	0.42
1:A:164:LEU:HD12	1:A:165:VAL:N	2.35	0.42
1:A:387:ARG:H	1:A:387:ARG:HD2	1.84	0.42
1:B:681:SER:OG	1:B:682:LYS:N	2.52	0.42
1:B:950:VAL:HG22	1:B:1324:LEU:HD21	2.02	0.42
1:B:1041:LEU:HD23	1:B:1042:THR:N	2.35	0.42
1:B:1146:THR:O	1:B:1150:LEU:HD23	2.20	0.42
1:C:187:LEU:CD2	1:C:596:ALA:HB2	2.49	0.42
1:C:493:LEU:HD12	1:C:494:SER:N	2.35	0.42
1:D:572:PHE:CD2	1:D:786:LEU:HD12	2.55	0.42
1:D:1187:GLN:NE2	1:D:1187:GLN:HA	2.34	0.42
1:A:123:LYS:HG2	1:A:125:GLU:HA	2.02	0.42
1:A:224:PHE:CD1	1:A:604:VAL:HG11	2.55	0.42
1:A:602:GLN:HB2	1:A:605:LEU:HD23	2.01	0.42
1:B:49:VAL:C	1:B:84:LEU:HD12	2.39	0.42
1:B:63:SER:O	1:B:103:LEU:HD12	2.19	0.42
1:B:158:LEU:HD11	1:B:160:GLU:OE2	2.20	0.42
1:B:238:ILE:HD12	1:B:342:GLU:HB2	2.02	0.42
1:B:746:VAL:HG12	1:B:747:ASN:O	2.20	0.42
1:C:43:THR:OG1	1:C:154:ASN:ND2	2.53	0.42
1:C:161:LEU:H	1:C:161:LEU:HD23	1.85	0.42
1:C:360:ARG:O	1:C:411:THR:OG1	2.34	0.42
1:D:50:LEU:CD2	1:D:84:LEU:HD21	2.50	0.42
1:D:1216:TYR:CE2	1:D:1234:ILE:HD12	2.54	0.42
1:A:1296:ASN:HB3	1:A:1299:LEU:HD23	2.02	0.42
1:B:201:GLY:N	1:B:221:VAL:O	2.45	0.42
1:B:857:SER:OG	1:B:858:TRP:N	2.53	0.42
1:C:889:SER:HG	1:C:895:ARG:HH22	1.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:295:ASN:N	1:D:295:ASN:OD1	2.53	0.42
1:D:1184:GLU:HG3	1:D:1185:ARG:N	2.35	0.42
1:A:33:VAL:HG12	1:A:49:VAL:HG13	2.02	0.41
1:A:303:GLN:OE1	1:A:303:GLN:HA	2.19	0.41
1:A:570:LEU:HD13	1:A:782:SER:O	2.20	0.41
1:B:34:LEU:N	1:B:34:LEU:HD12	2.35	0.41
1:B:319:LYS:N	1:B:320:LEU:HD12	2.36	0.41
1:B:793:PHE:CZ	1:B:815:LEU:HD22	2.55	0.41
1:B:1118:HIS:ND1	1:B:1119:PRO:HD3	2.15	0.41
1:C:614:SER:N	1:C:617:SER:OG	2.51	0.41
1:C:694:GLN:NE2	1:C:695:TYR:O	2.52	0.41
1:C:867:ASN:HD22	1:C:867:ASN:H	1.68	0.41
1:D:1109:LEU:HD13	1:D:1120:VAL:HG11	2.03	0.41
1:A:55:ASN:C	1:A:57:THR:N	2.73	0.41
1:A:94:SER:OG	1:A:96:SER:O	2.39	0.41
1:A:233:VAL:HG23	1:A:235:VAL:HG23	2.01	0.41
1:A:241:ILE:CG2	1:A:242:LEU:HD22	2.50	0.41
1:A:267:SER:N	1:A:321:HIS:O	2.44	0.41
1:A:538:ALA:HB2	1:A:560:VAL:CG2	2.51	0.41
1:A:746:VAL:HG13	1:A:750:GLY:HA2	2.02	0.41
1:B:517:GLN:NE2	1:B:518:GLU:OE2	2.53	0.41
1:B:824:VAL:HG23	1:B:875:GLU:O	2.20	0.41
1:B:968:MET:CG	1:B:969:PRO:HD2	2.49	0.41
1:B:1277:GLN:OE1	1:B:1289:LYS:NZ	2.32	0.41
1:C:40:HIS:HB2	1:C:43:THR:HG22	2.00	0.41
1:C:501:ALA:HB1	1:C:535:ALA:HB3	2.02	0.41
1:C:1046:LEU:HD11	1:C:1063:ILE:CG2	2.50	0.41
1:D:497:TYR:CG	1:D:526:ILE:HD11	2.55	0.41
1:D:593:SER:C	1:D:745:VAL:HG13	2.41	0.41
1:A:244:GLU:C	1:A:306:THR:HG22	2.41	0.41
1:A:578:LEU:C	1:A:580:ALA:H	2.21	0.41
1:A:603:SER:O	1:A:606:LEU:N	2.50	0.41
1:A:943:SER:OG	1:A:1308:LEU:HD11	2.20	0.41
1:B:290:PHE:O	1:B:302:GLN:NE2	2.48	0.41
1:B:595:CYS:H	1:B:743:LEU:HD13	1.84	0.41
1:B:946:ALA:HB2	1:B:1328:LEU:HB2	2.02	0.41
1:C:318:MET:SD	1:C:319:LYS:N	2.91	0.41
1:D:43:THR:HG21	1:D:153:GLU:HB2	2.02	0.41
1:D:679:THR:HG22	1:D:681:SER:H	1.85	0.41
1:A:41:THR:HG22	1:A:91:VAL:HG12	2.03	0.41
1:A:491:LYS:C	1:A:515:VAL:HG22	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:579:PRO:HB3	1:A:759:PRO:HG3	2.02	0.41
1:A:869:ASN:HB3	1:A:900:ILE:HG22	2.02	0.41
1:B:136:SER:OG	1:B:609:PRO:O	2.38	0.41
1:B:275:ALA:HB3	1:B:282:ASP:O	2.20	0.41
1:B:575:SER:OG	1:B:576:GLN:N	2.51	0.41
1:C:67:VAL:HG12	1:C:99:GLU:HG2	2.03	0.41
1:C:751:VAL:HG22	1:C:752:ALA:N	2.36	0.41
1:C:978:VAL:CG2	1:C:1251:THR:HG21	2.51	0.41
1:D:35:VAL:HG23	1:D:35:VAL:O	2.20	0.41
1:D:1103:ALA:CB	1:D:1149:LEU:HD12	2.51	0.41
1:D:1345:VAL:HG23	1:D:1365:LEU:HD11	2.02	0.41
1:A:383:VAL:O	1:A:423:VAL:HG23	2.19	0.41
1:A:460:HIS:NE2	1:A:461:LEU:O	2.53	0.41
1:B:268:ILE:HA	1:B:320:LEU:HD23	2.02	0.41
1:B:658:VAL:HG21	1:B:688:MET:CE	2.51	0.41
1:B:1144:VAL:HG12	1:B:1183:TRP:HD1	1.86	0.41
1:C:108:LYS:HG3	1:C:108:LYS:O	2.20	0.41
1:C:143:THR:HG22	1:C:193:PRO:CB	2.49	0.41
1:C:353:VAL:HG23	1:C:354:LYS:H	1.85	0.41
1:C:1144:VAL:HG11	1:C:1185:ARG:HA	2.02	0.41
1:D:103:LEU:HD11	1:D:120:VAL:HG23	2.02	0.41
1:D:292:GLY:HA3	1:D:300:PHE:CZ	2.53	0.41
1:D:384:ILE:HG22	1:D:423:VAL:HG22	2.02	0.41
1:D:855:THR:O	1:D:855:THR:HG23	2.21	0.41
1:D:991:ASN:O	1:D:991:ASN:ND2	2.54	0.41
1:A:129:VAL:HG22	1:A:209:LYS:HZ1	1.84	0.41
1:A:269:CYS:O	1:A:319:LYS:N	2.49	0.41
1:B:480:TYR:O	1:B:481:ILE:HG23	2.20	0.41
1:B:486:THR:HG23	1:B:486:THR:O	2.21	0.41
1:B:1128:LEU:HD11	1:B:1150:LEU:HD13	2.01	0.41
1:C:984:ILE:HG12	1:C:1052:ALA:HB2	2.02	0.41
1:D:68:ARG:HA	1:D:68:ARG:CZ	2.50	0.41
1:D:325:GLN:HA	1:D:332:VAL:HG13	2.02	0.41
1:D:501:ALA:CB	1:D:506:VAL:HG12	2.50	0.41
1:D:758:VAL:O	1:D:758:VAL:HG13	2.21	0.41
1:D:1007:TYR:O	1:D:1011:GLY:N	2.44	0.41
1:D:1067:LEU:CD1	1:D:1112:ILE:HG21	2.48	0.41
1:A:1270:THR:O	1:A:1271:ARG:C	2.59	0.41
1:B:275:ALA:HB1	1:B:281:GLU:HB3	2.02	0.41
1:B:389:ASN:C	1:B:391:ALA:H	2.24	0.41
1:B:545:VAL:C	1:B:546:LEU:HD23	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:965:LEU:HD12	1:B:1247:GLY:N	2.36	0.41
1:B:1072:GLN:O	1:B:1072:GLN:HG2	2.21	0.41
1:C:394:TYR:CD2	5:C:2004:NAG:H61	2.53	0.41
1:C:1238:ILE:HG23	1:C:1248:PHE:CE2	2.56	0.41
1:D:198:PRO:CG	1:D:221:VAL:HG11	2.50	0.41
1:D:258:LYS:HZ3	1:D:815:LEU:HD21	1.85	0.41
1:D:305:LYS:NZ	1:D:308:VAL:HG13	2.35	0.41
1:D:353:VAL:HG23	1:D:369:VAL:HA	2.02	0.41
1:D:453:SER:OG	1:D:455:SER:OG	2.38	0.41
1:D:1187:GLN:HA	1:D:1187:GLN:HE21	1.86	0.41
1:A:311:LEU:H	1:A:311:LEU:HD23	1.86	0.41
1:A:497:TYR:CD1	1:A:526:ILE:HD11	2.56	0.41
1:A:654:THR:HG21	1:D:659:SER:HB2	2.03	0.41
1:B:48:CYS:SG	1:B:498:LEU:HD21	2.61	0.41
1:B:233:VAL:HG22	1:B:234:THR:N	2.35	0.41
1:B:914:THR:C	1:B:1327:SER:HG	2.17	0.41
1:B:997:THR:HG23	1:B:1000:ILE:HG22	2.02	0.41
1:B:1271:ARG:N	1:B:1271:ARG:CD	2.84	0.41
1:C:118:THR:OG1	1:C:676:LYS:HG3	2.20	0.41
1:C:1107:ILE:HG21	1:C:1149:LEU:CD1	2.50	0.41
1:D:840:GLU:OE2	1:D:857:SER:N	2.50	0.41
1:D:1016:LEU:O	1:D:1019:LYS:HG2	2.20	0.41
1:A:63:SER:OG	1:A:64:LEU:N	2.54	0.41
1:A:215:THR:HG22	1:A:216:GLU:N	2.36	0.41
1:A:473:THR:O	1:A:474:GLN:NE2	2.54	0.41
1:A:491:LYS:HA	1:A:515:VAL:HG22	2.03	0.41
1:A:594:VAL:HG23	1:A:744:VAL:O	2.21	0.41
1:A:734:TYR:C	1:A:758:VAL:HG23	2.41	0.41
1:A:1209:THR:HG21	1:A:1237:TRP:CZ3	2.56	0.41
1:A:1293:ASP:OD1	1:A:1294:ASN:N	2.49	0.41
1:B:241:ILE:CD1	1:B:347:ILE:HD11	2.51	0.41
1:B:887:VAL:O	1:B:887:VAL:HG13	2.21	0.41
1:B:948:VAL:HG22	1:B:949:SER:N	2.36	0.41
1:B:1159:ASN:O	1:B:1163:ARG:N	2.47	0.41
1:B:1323:TYR:C	1:B:1324:LEU:HD12	2.40	0.41
1:C:372:VAL:HG12	1:C:373:ASP:N	2.36	0.41
1:C:920:LEU:HD11	1:C:929:GLU:HB2	2.03	0.41
1:C:928:SER:HA	1:C:1316:VAL:HG22	2.03	0.41
1:C:1217:LEU:O	1:C:1219:ALA:N	2.53	0.41
1:C:1251:THR:O	1:C:1255:VAL:HG23	2.21	0.41
1:D:452:PHE:C	1:D:454:PRO:HD3	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:650:ILE:HD11	1:D:659:SER:N	2.36	0.41
1:D:809:THR:HG22	1:D:1437:VAL:HG13	2.03	0.41
1:D:1105:ILE:HG13	1:D:1106:THR:HG23	2.02	0.41
1:A:407:PHE:CD2	1:A:407:PHE:C	2.93	0.41
1:A:564:LEU:HD21	1:A:780:ILE:CD1	2.50	0.41
1:A:581:SER:HA	1:A:756:VAL:HG13	2.02	0.41
1:A:803:ILE:HD12	1:A:908:GLU:HA	2.03	0.41
1:A:983:ASN:HB3	1:A:984:ILE:HD12	2.03	0.41
1:B:483:ASN:O	1:B:487:LEU:HD21	2.20	0.41
1:B:1121:VAL:O	1:B:1124:ALA:HB3	2.21	0.41
1:C:959:MET:O	1:C:962:THR:OG1	2.32	0.41
1:D:241:ILE:HG22	1:D:242:LEU:CD2	2.50	0.41
1:A:33:VAL:O	1:A:34:LEU:HD12	2.21	0.40
1:A:230:GLU:CA	1:A:606:LEU:HD11	2.50	0.40
1:A:887:VAL:O	1:A:887:VAL:HG13	2.20	0.40
1:A:1059:ASP:N	1:A:1059:ASP:OD1	2.55	0.40
1:B:239:ILE:HD11	1:B:243:GLU:HB3	2.04	0.40
1:B:383:VAL:HG13	1:B:423:VAL:HG23	2.03	0.40
1:B:390:GLU:N	1:B:390:GLU:CD	2.74	0.40
1:B:495:PHE:CD1	1:B:544:ALA:HB2	2.57	0.40
1:B:538:ALA:HB2	1:B:560:VAL:CG2	2.51	0.40
1:B:1214:LEU:HD21	1:B:1260:ALA:HB2	2.02	0.40
1:B:1311:GLU:N	1:B:1311:GLU:OE1	2.54	0.40
1:C:100:VAL:HG12	1:C:121:MET:HG3	2.03	0.40
1:C:139:LYS:CG	1:C:142:GLN:HG3	2.51	0.40
1:C:634:LEU:HD23	1:C:634:LEU:H	1.85	0.40
1:D:984:ILE:HG12	1:D:1045:VAL:HG23	2.04	0.40
1:D:1118:HIS:HA	1:D:1121:VAL:HG22	2.02	0.40
1:D:1216:TYR:HE2	1:D:1234:ILE:HD12	1.86	0.40
1:D:1250:SER:OG	1:D:1252:GLN:N	2.54	0.40
1:A:590:ALA:HB1	1:A:591:PRO:CD	2.50	0.40
1:A:1151:ALA:HB1	1:A:1167:LEU:HD11	2.03	0.40
1:B:733:LYS:N	1:B:760:ASP:OD2	2.55	0.40
1:B:1095:VAL:HG12	1:B:1145:TYR:HE2	1.87	0.40
1:C:349:LYS:NZ	1:C:372:VAL:HG11	2.36	0.40
1:C:1046:LEU:CD1	1:C:1063:ILE:HG22	2.50	0.40
1:C:1207:GLU:O	1:C:1210:SER:OG	2.16	0.40
1:D:76:ASP:OD1	1:D:77:LEU:N	2.54	0.40
1:D:290:PHE:O	1:D:302:GLN:HG2	2.21	0.40
1:D:800:TYR:C	1:D:802:VAL:HG13	2.40	0.40
1:D:975:GLN:O	1:D:977:MET:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1087:LEU:H	1:D:1087:LEU:HD12	1.86	0.40
1:D:1185:ARG:HD3	1:D:1196:PHE:HB3	2.03	0.40
1:D:1404:HIS:O	1:D:1405:VAL:HG13	2.20	0.40
1:A:966:LEU:HD22	1:A:1007:TYR:CE2	2.56	0.40
1:B:241:ILE:HD12	1:B:347:ILE:HD11	2.02	0.40
1:B:498:LEU:HD22	1:B:505:ILE:HG23	2.04	0.40
1:B:1166:VAL:O	1:B:1170:LEU:HD23	2.21	0.40
1:C:339:GLN:H	1:C:339:GLN:HG2	1.71	0.40
1:C:514:LEU:HD23	1:C:515:VAL:O	2.22	0.40
1:C:570:LEU:HD23	1:C:571:SER:N	2.36	0.40
1:C:1100:THR:CG2	1:C:1149:LEU:HD23	2.46	0.40
1:D:60:VAL:HG23	1:D:107:VAL:HA	2.02	0.40
1:D:162:ILE:HG22	1:D:181:PHE:O	2.21	0.40
1:D:993:THR:HG21	1:D:996:LEU:HD13	2.04	0.40
1:A:167:ILE:CG1	1:A:205:VAL:HG13	2.50	0.40
1:A:319:LYS:C	1:A:320:LEU:HD12	2.42	0.40
1:A:794:VAL:O	1:A:794:VAL:HG13	2.21	0.40
1:A:1067:LEU:HA	1:A:1070:LEU:HD12	2.02	0.40
1:A:1277:GLN:O	1:A:1317:THR:N	2.48	0.40
1:C:268:ILE:HD12	1:C:304:VAL:HG21	2.03	0.40
1:C:351:SER:O	1:C:370:ARG:N	2.48	0.40
1:C:964:ASN:ND2	1:C:1245:GLN:O	2.54	0.40
1:C:1148:ALA:HA	1:C:1170:LEU:HD11	2.03	0.40
1:C:1278:VAL:HG12	1:C:1279:THR:N	2.36	0.40
1:D:265:THR:OG1	1:D:291:SER:HB3	2.20	0.40
1:D:1427:LEU:H	1:D:1427:LEU:HD23	1.87	0.40
1:A:436:TRP:NE1	1:B:273:SER:O	2.46	0.40
1:A:459:VAL:HG23	1:A:479:HIS:O	2.21	0.40
1:A:1089:ASN:OD1	1:A:1200:GLN:NE2	2.55	0.40
1:A:1109:LEU:O	1:A:1114:LEU:HD11	2.22	0.40
1:B:792:PHE:CZ	1:B:824:VAL:HG21	2.56	0.40
1:C:538:ALA:N	1:C:558:TYR:O	2.53	0.40
1:C:1235:VAL:HG13	1:C:1261:LEU:CD2	2.52	0.40
1:D:540:LEU:HD12	1:D:541:LEU:H	1.87	0.40
1:D:1251:THR:HG22	1:D:1409:GLU:OE1	2.21	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 PDB entries followed by that with respect to all EM entries.

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	1272/1474 (86%)	986 (78%)	277 (22%)	9 (1%)	19	56
1	B	1272/1474 (86%)	1033 (81%)	230 (18%)	9 (1%)	19	56
1	C	1273/1474 (86%)	992 (78%)	274 (22%)	7 (0%)	25	63
1	D	1403/1474 (95%)	1122 (80%)	270 (19%)	11 (1%)	16	53
All	All	5220/5896 (88%)	4133 (79%)	1051 (20%)	36 (1%)	21	56

All (36) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	56	GLU
1	B	1118	HIS
1	C	339	GLN
1	C	412	THR
1	D	412	THR
1	D	800	TYR
1	A	55	ASN
1	A	579	PRO
1	B	736	PRO
1	D	532	SER
1	D	809	THR
1	D	976	ASN
1	A	687	LYS
1	A	1196	PHE
1	A	1221	PRO
1	B	70	ASN
1	D	95	SER
1	D	799	PRO
1	B	55	ASN
1	B	412	THR
1	B	532	SER
1	C	53	TYR

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Mol	Chain	Res	Type
1	C	338	ARG
1	C	1221	PRO
1	A	532	SER
1	A	582	HIS
1	B	994	GLN
1	B	1221	PRO
1	C	436	TRP
1	C	936	PRO
1	D	936	PRO
1	D	241	ILE
1	D	986	VAL
1	D	631	PRO
1	A	936	PRO
1	B	110	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 PDB entries followed by that with respect to all EM entries.

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	1114/1290 (86%)	1099 (99%)	15 (1%)	65 77
1	B	1114/1290 (86%)	1100 (99%)	14 (1%)	65 77
1	C	1115/1290 (86%)	1103 (99%)	12 (1%)	70 80
1	D	1234/1290 (96%)	1213 (98%)	21 (2%)	56 73
All	All	4577/5160 (89%)	4515 (99%)	62 (1%)	62 76

All (62) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	224	PHE
1	A	383	VAL
1	A	387	ARG
1	A	396	ASN
1	A	411	THR
1	A	470	CYS
1	A	688	MET

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Mol	Chain	Res	Type
1	A	689	CYS
1	A	739	TRP
1	A	778	LEU
1	A	821	CYS
1	A	951	LEU
1	A	1195	HIS
1	A	1259	HIS
1	A	1271	ARG
1	B	336	THR
1	B	409	ILE
1	B	410	ASN
1	B	412	THR
1	B	470	CYS
1	B	492	LYS
1	B	735	PHE
1	B	787	ARG
1	B	823	ARG
1	B	932	SER
1	B	1001	LYS
1	B	1118	HIS
1	B	1127	CYS
1	B	1271	ARG
1	C	55	ASN
1	C	56	GLU
1	C	58	VAL
1	C	108	LYS
1	C	113	GLU
1	C	520	MET
1	C	654	THR
1	C	867	ASN
1	C	869	ASN
1	C	1164	LYS
1	C	1195	HIS
1	C	1271	ARG
1	D	48	CYS
1	D	56	GLU
1	D	115	LYS
1	D	396	ASN
1	D	410	ASN
1	D	810	LEU
1	D	811	LYS
1	D	823	ARG

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Mol	Chain	Res	Type
1	D	883	CYS
1	D	988	ASP
1	D	989	TYR
1	D	991	ASN
1	D	1005	ILE
1	D	1012	TYR
1	D	1013	GLN
1	D	1015	GLN
1	D	1019	LYS
1	D	1184	GLU
1	D	1245	GLN
1	D	1271	ARG
1	D	1397	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (52) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	132	GLN
1	A	168	GLN
1	A	474	GLN
1	A	477	GLN
1	A	479	HIS
1	A	511	HIS
1	A	576	GLN
1	A	651	ASN
1	A	662	ASN
1	A	976	ASN
1	A	1038	ASN
1	A	1259	HIS
1	B	132	GLN
1	B	310	GLN
1	B	413	ASN
1	B	511	HIS
1	B	584	HIS
1	B	602	GLN
1	B	880	GLN
1	B	1015	GLN
1	B	1062	HIS
1	B	1123	ASN
1	B	1296	ASN
1	C	97	ASN
1	C	303	GLN

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Mol	Chain	Res	Type
1	C	368	GLN
1	C	406	GLN
1	C	413	ASN
1	C	511	HIS
1	C	584	HIS
1	C	620	ASN
1	C	647	ASN
1	C	867	ASN
1	C	1009	ASN
1	C	1179	ASN
1	C	1242	GLN
1	C	1243	ASN
1	D	179	GLN
1	D	217	HIS
1	D	293	GLN
1	D	327	GLN
1	D	406	GLN
1	D	424	ASN
1	D	477	GLN
1	D	843	GLN
1	D	964	ASN
1	D	967	GLN
1	D	1013	GLN
1	D	1015	GLN
1	D	1051	GLN
1	D	1259	HIS
1	D	1331	ASN

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](#)

24 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
2	NAG	E	1	1,2	14,14,15	0.25	0	17,19,21	0.52	0
2	NAG	E	2	2	14,14,15	0.29	0	17,19,21	0.56	0
3	NAG	F	1	3,1	14,14,15	0.37	0	17,19,21	1.23	2 (11%)
3	NAG	F	2	3	14,14,15	0.35	0	17,19,21	0.76	0
3	BMA	F	3	3	11,11,12	0.24	0	15,15,17	0.76	0
2	NAG	G	1	1,2	14,14,15	0.32	0	17,19,21	0.60	0
2	NAG	G	2	2	14,14,15	0.29	0	17,19,21	0.63	0
3	NAG	H	1	3,1	14,14,15	0.37	0	17,19,21	1.03	2 (11%)
3	NAG	H	2	3	14,14,15	0.44	0	17,19,21	1.24	2 (11%)
3	BMA	H	3	3	11,11,12	0.22	0	15,15,17	0.52	0
2	NAG	I	1	1,2	14,14,15	0.32	0	17,19,21	0.48	0
2	NAG	I	2	2	14,14,15	0.29	0	17,19,21	0.52	0
3	NAG	J	1	3,1	14,14,15	0.33	0	17,19,21	0.93	1 (5%)
3	NAG	J	2	3	14,14,15	0.34	0	17,19,21	0.73	0
3	BMA	J	3	3	11,11,12	0.23	0	15,15,17	0.57	0
2	NAG	K	1	1,2	14,14,15	0.29	0	17,19,21	0.82	1 (5%)
2	NAG	K	2	2	14,14,15	0.30	0	17,19,21	0.64	0
4	NAG	L	1	1,4	14,14,15	0.32	0	17,19,21	0.50	0
4	NAG	L	2	4	14,14,15	0.37	0	17,19,21	0.79	0
4	BMA	L	3	4	11,11,12	0.24	0	15,15,17	0.55	0
4	MAN	L	4	4	11,11,12	0.26	0	15,15,17	0.60	0
3	NAG	M	1	3,1	14,14,15	0.37	0	17,19,21	0.80	0
3	NAG	M	2	3	14,14,15	0.37	0	17,19,21	0.68	0
3	BMA	M	3	3	11,11,12	0.22	0	15,15,17	0.63	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
2	NAG	E	1	1,2	-	5/6/23/26	0/1/1/1
2	NAG	E	2	2	-	4/6/23/26	0/1/1/1
3	NAG	F	1	3,1	-	4/6/23/26	0/1/1/1
3	NAG	F	2	3	-	3/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	BMA	F	3	3	-	0/2/19/22	0/1/1/1
2	NAG	G	1	1,2	-	2/6/23/26	0/1/1/1
2	NAG	G	2	2	-	5/6/23/26	0/1/1/1
3	NAG	H	1	3,1	-	5/6/23/26	0/1/1/1
3	NAG	H	2	3	-	4/6/23/26	0/1/1/1
3	BMA	H	3	3	-	0/2/19/22	0/1/1/1
2	NAG	I	1	1,2	-	4/6/23/26	0/1/1/1
2	NAG	I	2	2	-	3/6/23/26	0/1/1/1
3	NAG	J	1	3,1	-	2/6/23/26	0/1/1/1
3	NAG	J	2	3	-	3/6/23/26	0/1/1/1
3	BMA	J	3	3	-	0/2/19/22	0/1/1/1
2	NAG	K	1	1,2	-	2/6/23/26	0/1/1/1
2	NAG	K	2	2	-	2/6/23/26	0/1/1/1
4	NAG	L	1	1,4	-	4/6/23/26	0/1/1/1
4	NAG	L	2	4	-	3/6/23/26	0/1/1/1
4	BMA	L	3	4	-	2/2/19/22	0/1/1/1
4	MAN	L	4	4	-	1/2/19/22	0/1/1/1
3	NAG	M	1	3,1	-	3/6/23/26	0/1/1/1
3	NAG	M	2	3	-	4/6/23/26	0/1/1/1
3	BMA	M	3	3	-	1/2/19/22	0/1/1/1

There are no bond length outliers.

All (8) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	H	2	NAG	C1-O5-C5	3.65	117.14	112.19
3	F	1	NAG	C1-O5-C5	2.78	115.96	112.19
3	J	1	NAG	C1-O5-C5	2.58	115.69	112.19
3	H	1	NAG	C1-O5-C5	2.39	115.43	112.19
3	F	1	NAG	C3-C4-C5	2.31	114.36	110.24
2	K	1	NAG	C4-C3-C2	-2.17	107.83	111.02
3	H	2	NAG	C3-C4-C5	-2.11	106.48	110.24
3	H	1	NAG	O4-C4-C5	2.11	114.53	109.30

There are no chirality outliers.

All (66) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	E	2	NAG	C3-C2-N2-C7
2	G	1	NAG	C8-C7-N2-C2
2	G	1	NAG	O7-C7-N2-C2
2	G	2	NAG	C1-C2-N2-C7
2	G	2	NAG	C8-C7-N2-C2
2	G	2	NAG	O7-C7-N2-C2
2	I	1	NAG	C8-C7-N2-C2
2	I	1	NAG	O7-C7-N2-C2
2	I	2	NAG	C3-C2-N2-C7
2	I	2	NAG	C8-C7-N2-C2
2	I	2	NAG	O7-C7-N2-C2
2	K	1	NAG	C8-C7-N2-C2
2	K	1	NAG	O7-C7-N2-C2
2	K	2	NAG	C8-C7-N2-C2
2	K	2	NAG	O7-C7-N2-C2
3	F	1	NAG	C8-C7-N2-C2
3	F	1	NAG	O7-C7-N2-C2
3	F	2	NAG	C3-C2-N2-C7
3	F	2	NAG	C8-C7-N2-C2
3	F	2	NAG	O7-C7-N2-C2
3	H	1	NAG	C1-C2-N2-C7
3	H	1	NAG	C8-C7-N2-C2
3	H	1	NAG	O7-C7-N2-C2
3	H	2	NAG	C8-C7-N2-C2
3	H	2	NAG	O7-C7-N2-C2
3	J	1	NAG	C8-C7-N2-C2
3	J	1	NAG	O7-C7-N2-C2
3	J	2	NAG	C3-C2-N2-C7
3	J	2	NAG	C8-C7-N2-C2
3	J	2	NAG	O7-C7-N2-C2
3	M	1	NAG	C3-C2-N2-C7
3	M	1	NAG	C8-C7-N2-C2
3	M	1	NAG	O7-C7-N2-C2
3	M	2	NAG	C8-C7-N2-C2
3	M	2	NAG	O7-C7-N2-C2
4	L	1	NAG	C8-C7-N2-C2
4	L	1	NAG	O7-C7-N2-C2
4	L	2	NAG	C8-C7-N2-C2
4	L	2	NAG	O7-C7-N2-C2
2	E	2	NAG	C8-C7-N2-C2
2	E	2	NAG	O7-C7-N2-C2
2	E	1	NAG	C8-C7-N2-C2
2	E	1	NAG	O7-C7-N2-C2

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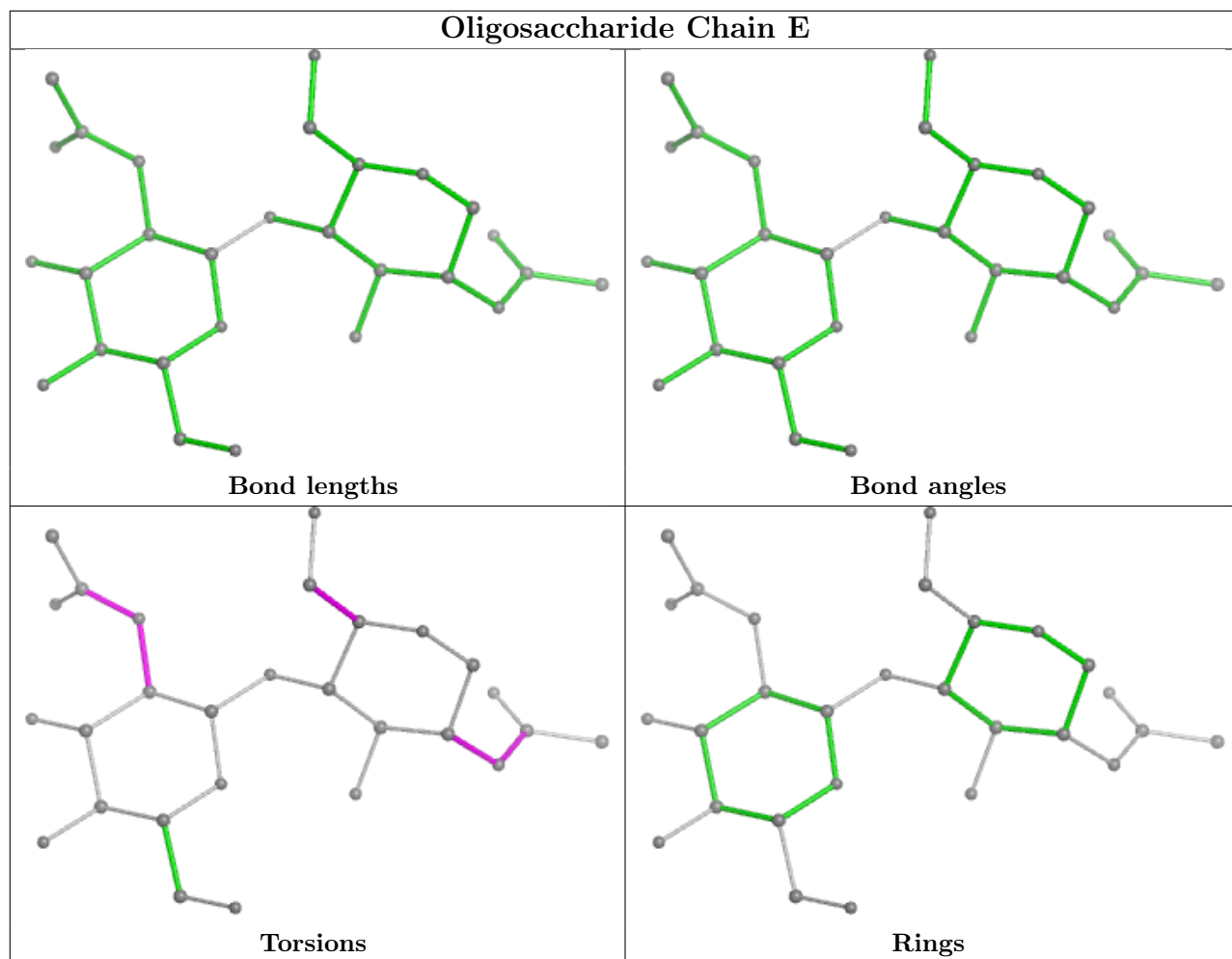
Mol	Chain	Res	Type	Atoms
3	H	1	NAG	O5-C5-C6-O6
3	M	2	NAG	C1-C2-N2-C7
4	L	3	BMA	O5-C5-C6-O6
2	E	1	NAG	C4-C5-C6-O6
4	L	1	NAG	C1-C2-N2-C7
3	H	1	NAG	C4-C5-C6-O6
3	F	1	NAG	C4-C5-C6-O6
2	E	1	NAG	C1-C2-N2-C7
2	E	2	NAG	C1-C2-N2-C7
3	M	3	BMA	O5-C5-C6-O6
4	L	4	MAN	O5-C5-C6-O6
2	E	1	NAG	O5-C5-C6-O6
3	H	2	NAG	O5-C5-C6-O6
2	G	2	NAG	O5-C5-C6-O6
3	H	2	NAG	C3-C2-N2-C7
3	M	2	NAG	C3-C2-N2-C7
2	I	1	NAG	C1-C2-N2-C7
4	L	3	BMA	C4-C5-C6-O6
2	G	2	NAG	C3-C2-N2-C7
3	F	1	NAG	O5-C5-C6-O6
2	I	1	NAG	C3-C2-N2-C7
4	L	1	NAG	C3-C2-N2-C7
4	L	2	NAG	C3-C2-N2-C7

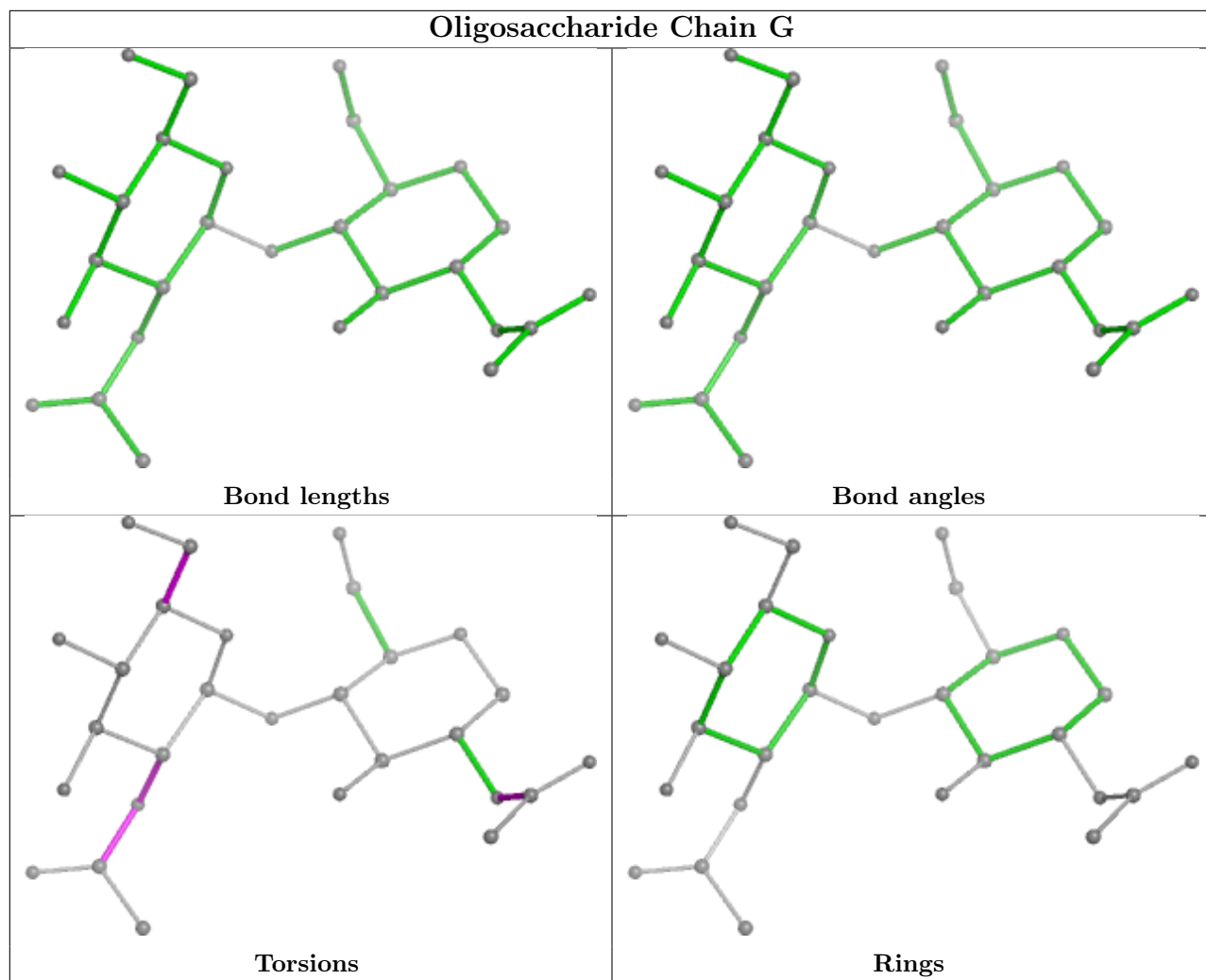
There are no ring outliers.

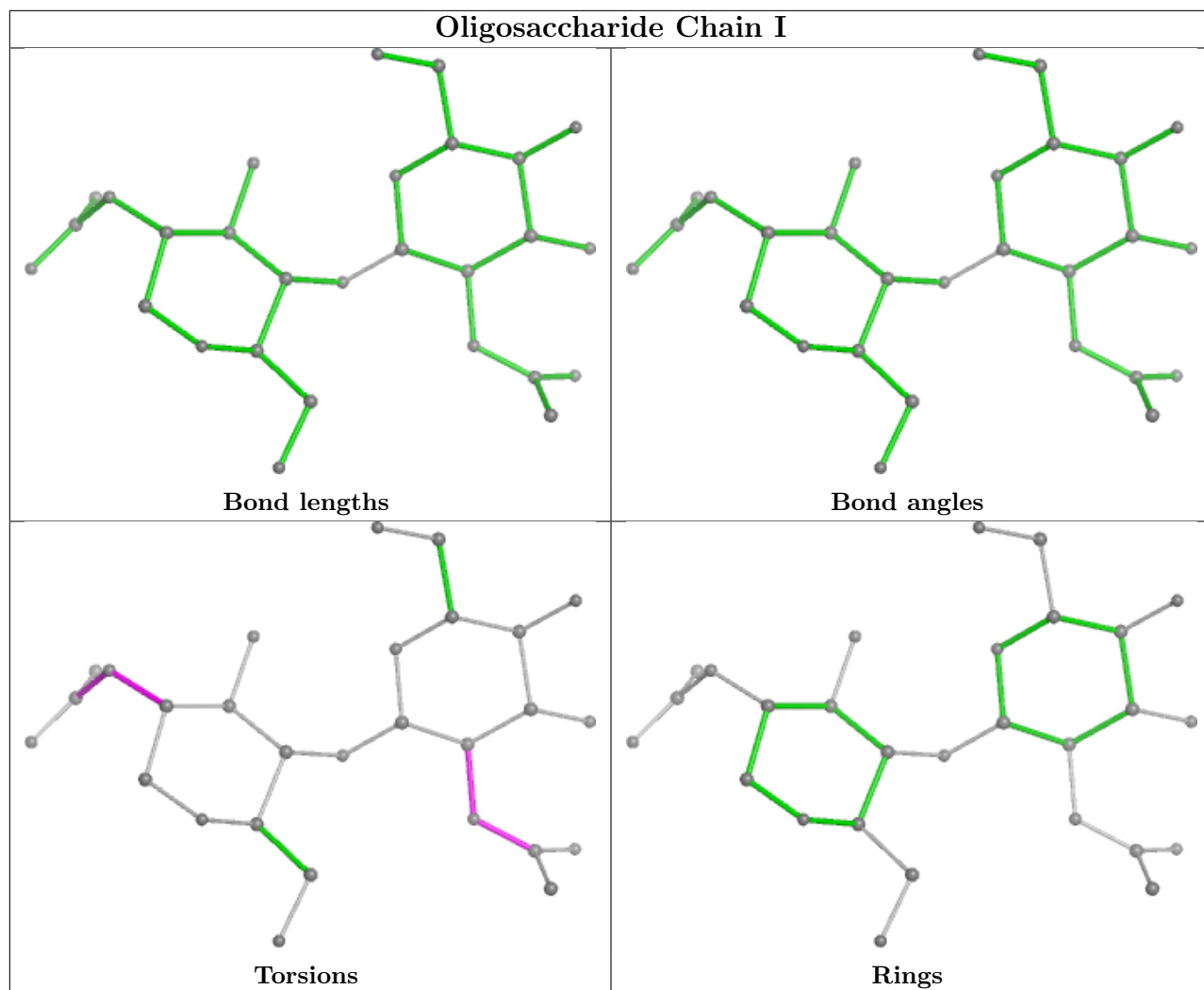
8 monomers are involved in 9 short contacts:

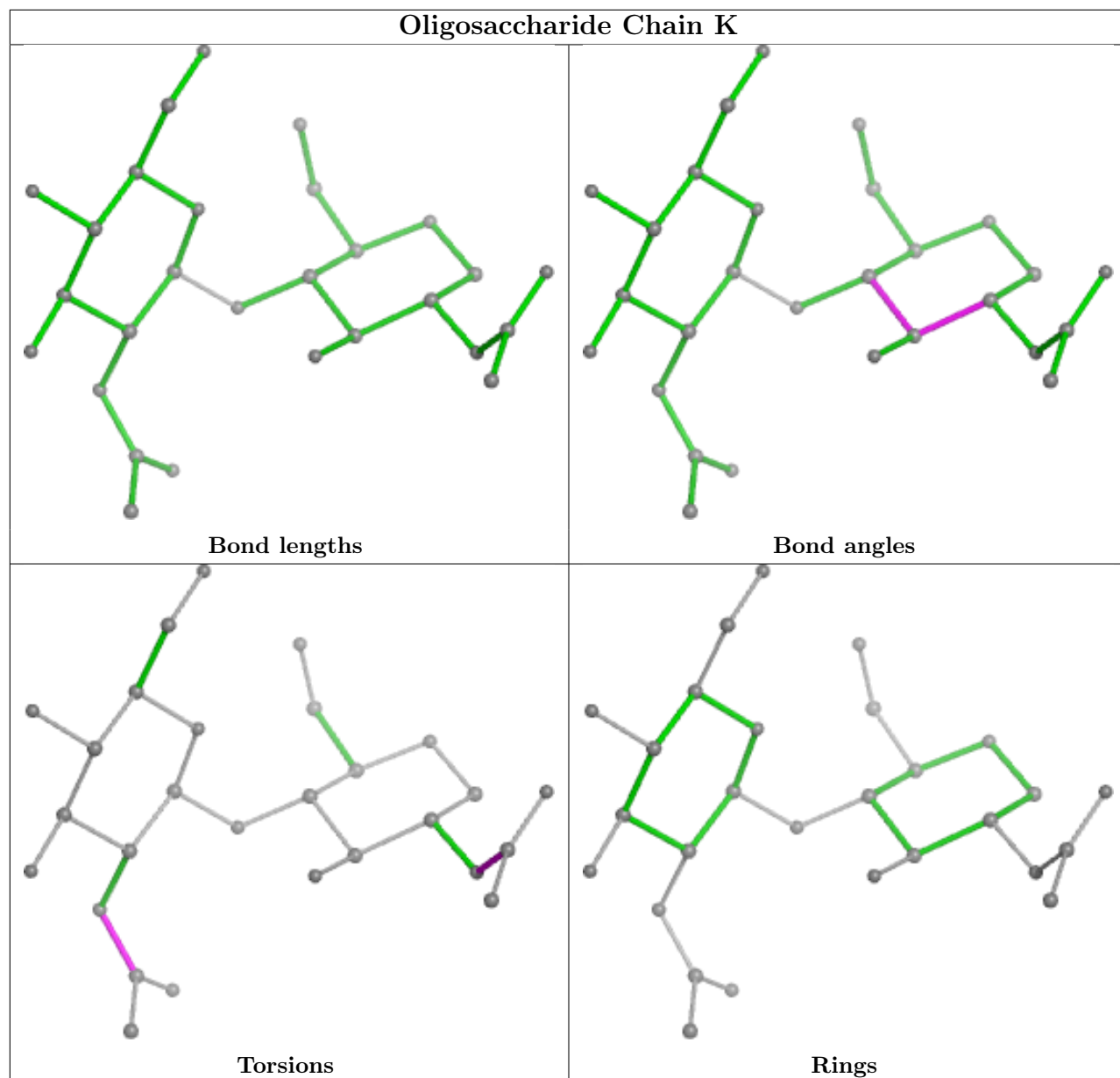
Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	L	4	MAN	1	0
2	I	2	NAG	1	0
4	L	2	NAG	1	0
3	M	2	NAG	1	0
3	H	2	NAG	3	0
4	L	3	BMA	1	0
3	M	1	NAG	2	0
3	J	2	NAG	1	0

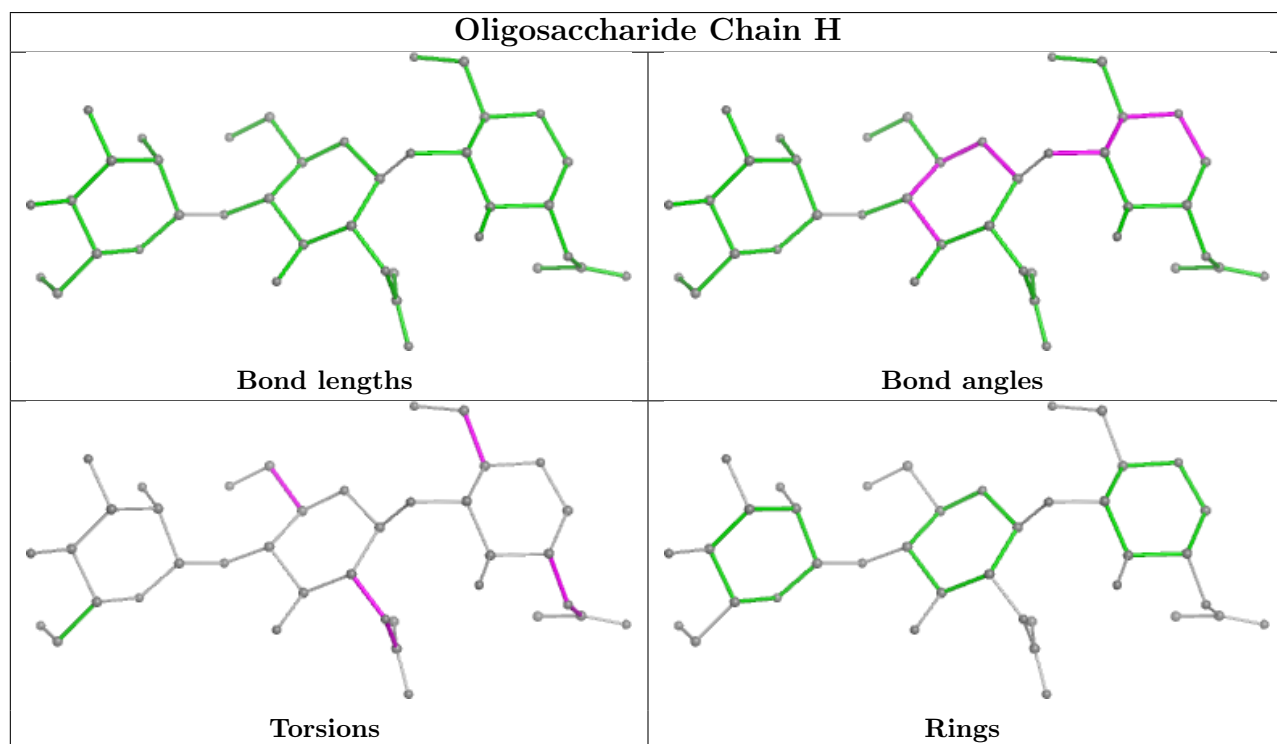
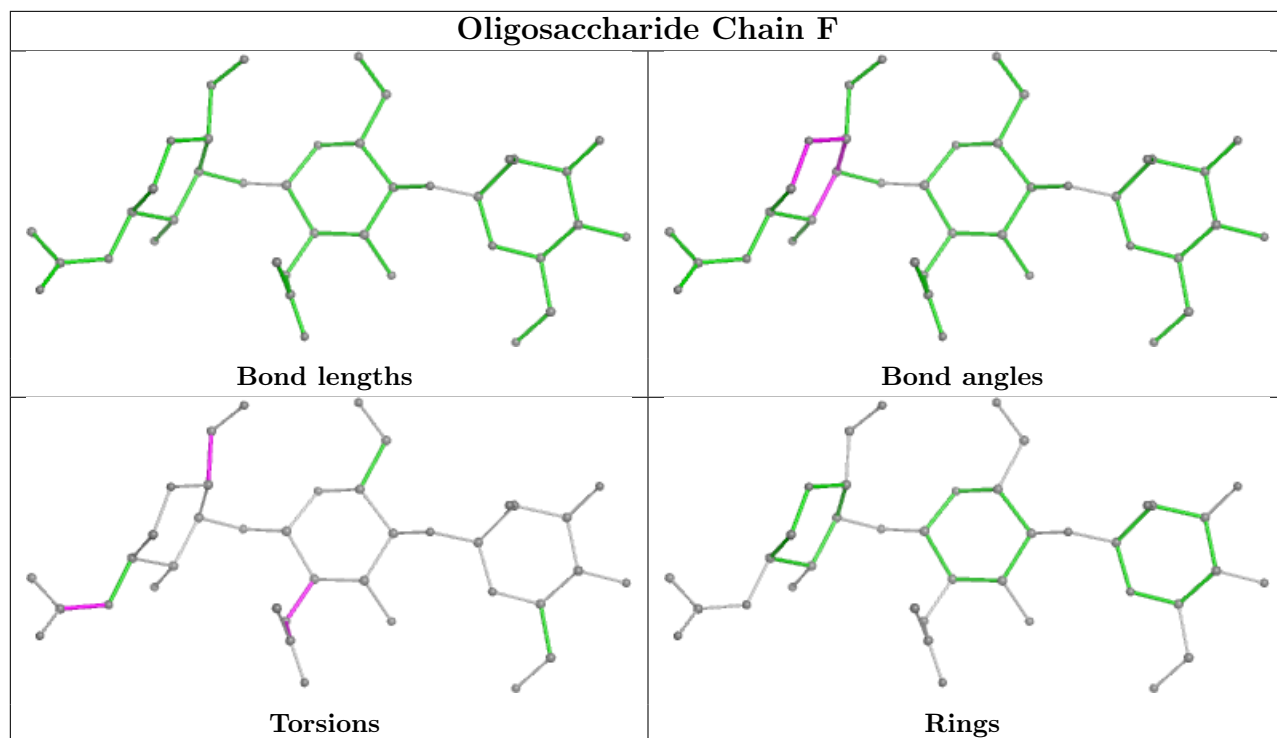
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.

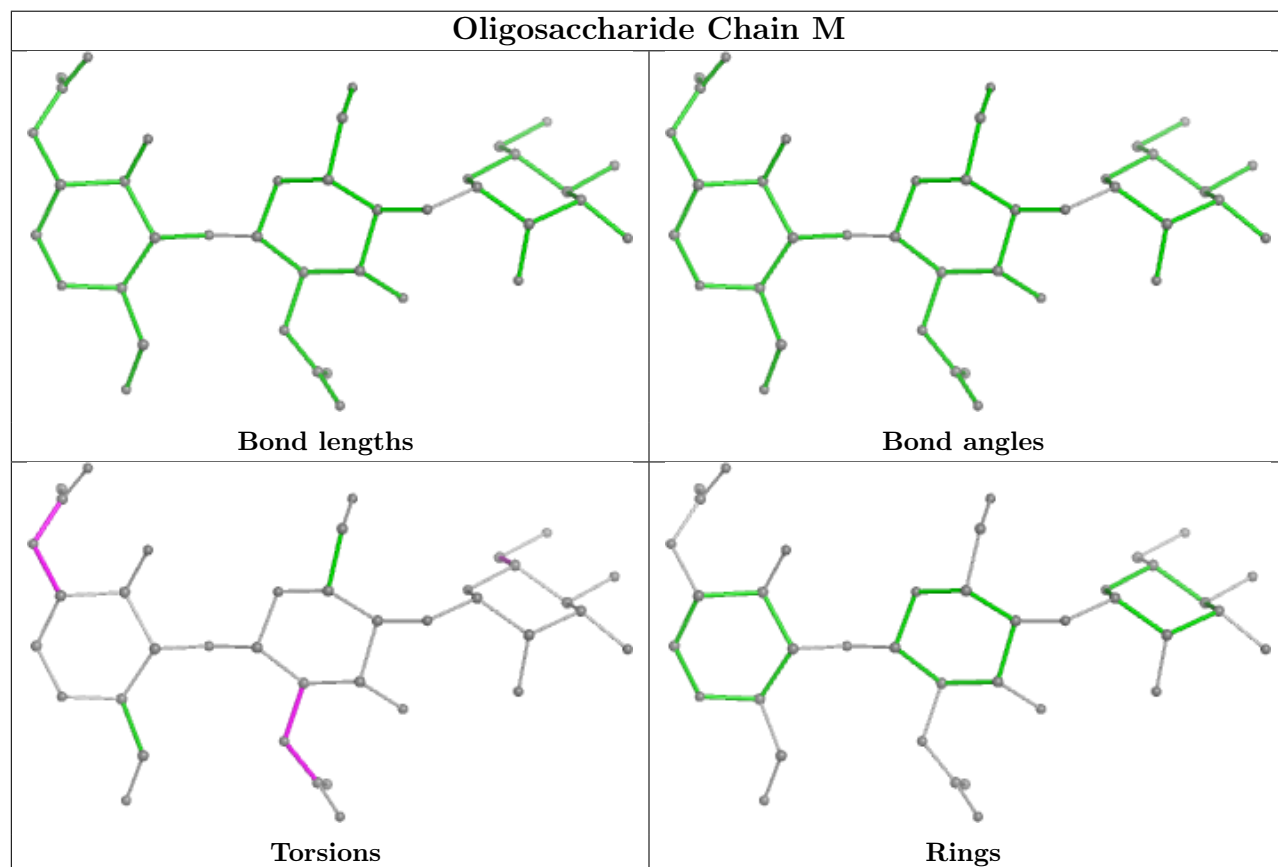
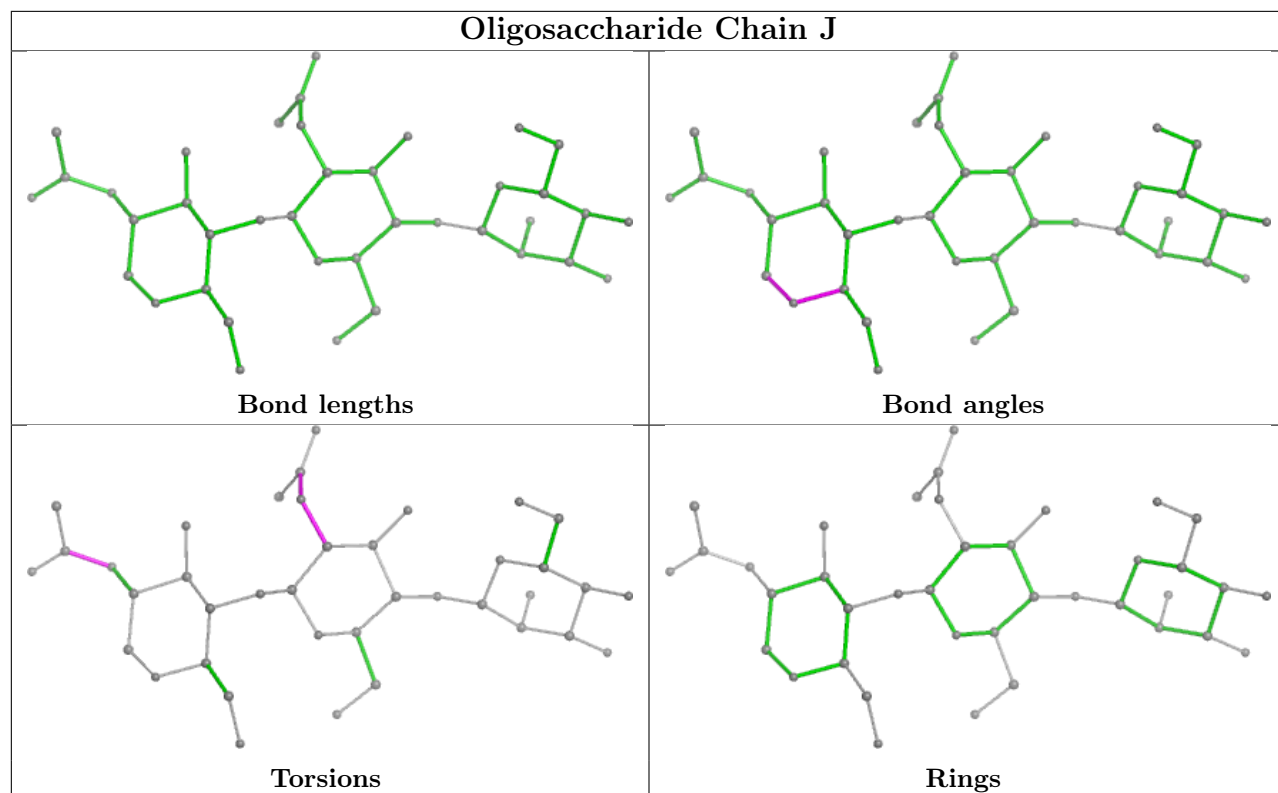


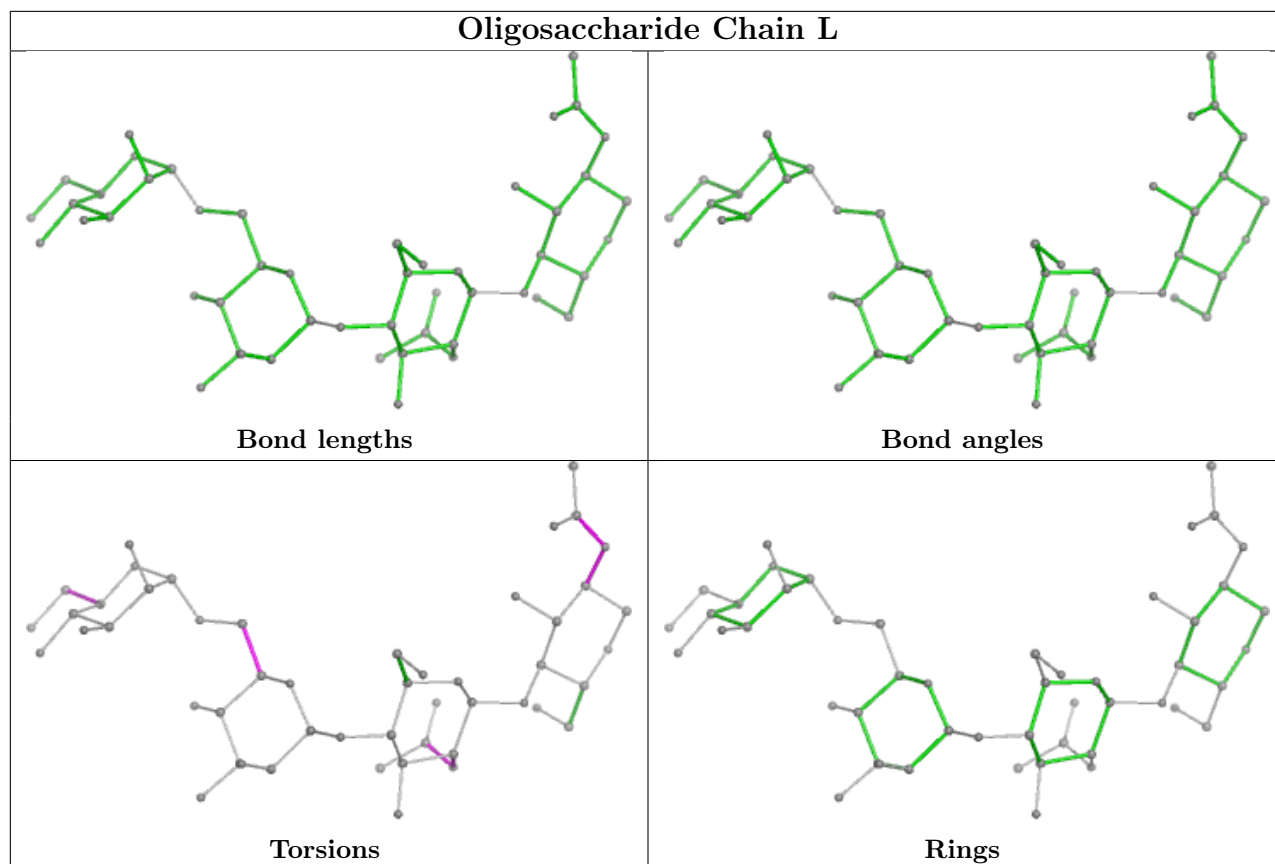












5.6 Ligand geometry [i](#)

20 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	$\# Z > 2$
5	NAG	D	2002	1	14,14,15	0.29	0	17,19,21	0.53	0
5	NAG	B	2002	1	14,14,15	0.29	0	17,19,21	0.66	0
5	NAG	D	2001	1	14,14,15	0.28	0	17,19,21	0.69	1 (5%)
5	NAG	A	2002	1	14,14,15	0.29	0	17,19,21	0.54	0
5	NAG	A	2001	1	14,14,15	0.30	0	17,19,21	0.61	0
5	NAG	A	2003	1	14,14,15	0.30	0	17,19,21	0.45	0
5	NAG	C	2005	1	14,14,15	0.29	0	17,19,21	0.54	0
5	NAG	A	2005	1	14,14,15	0.30	0	17,19,21	0.55	0
5	NAG	C	2004	1	14,14,15	0.28	0	17,19,21	0.58	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
5	NAG	B	2005	1	14,14,15	0.29	0	17,19,21	0.62	0
5	NAG	D	2003	1	14,14,15	0.29	0	17,19,21	0.53	0
5	NAG	A	2004	1	14,14,15	0.30	0	17,19,21	0.57	0
5	NAG	C	2002	1	14,14,15	0.35	0	17,19,21	0.81	1 (5%)
5	NAG	B	2003	1	14,14,15	0.29	0	17,19,21	0.67	1 (5%)
5	NAG	B	2004	1	14,14,15	0.27	0	17,19,21	0.65	0
5	NAG	C	2001	1	14,14,15	0.40	0	17,19,21	0.70	0
5	NAG	D	2005	1	14,14,15	0.27	0	17,19,21	0.52	0
5	NAG	B	2001	1	14,14,15	0.33	0	17,19,21	0.73	0
5	NAG	C	2003	1	14,14,15	0.26	0	17,19,21	0.53	0
5	NAG	D	2004	1	14,14,15	0.30	0	17,19,21	0.55	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
5	NAG	D	2002	1	-	4/6/23/26	0/1/1/1
5	NAG	B	2002	1	-	4/6/23/26	0/1/1/1
5	NAG	D	2001	1	-	4/6/23/26	0/1/1/1
5	NAG	A	2002	1	-	3/6/23/26	0/1/1/1
5	NAG	A	2001	1	-	3/6/23/26	0/1/1/1
5	NAG	A	2003	1	-	3/6/23/26	0/1/1/1
5	NAG	C	2005	1	-	4/6/23/26	0/1/1/1
5	NAG	A	2005	1	-	4/6/23/26	0/1/1/1
5	NAG	C	2004	1	-	4/6/23/26	0/1/1/1
5	NAG	B	2005	1	-	3/6/23/26	0/1/1/1
5	NAG	D	2003	1	-	2/6/23/26	0/1/1/1
5	NAG	A	2004	1	-	3/6/23/26	0/1/1/1
5	NAG	C	2002	1	-	4/6/23/26	0/1/1/1
5	NAG	B	2003	1	-	3/6/23/26	0/1/1/1
5	NAG	B	2004	1	-	5/6/23/26	0/1/1/1
5	NAG	C	2001	1	-	3/6/23/26	0/1/1/1
5	NAG	D	2005	1	-	4/6/23/26	0/1/1/1
5	NAG	B	2001	1	-	4/6/23/26	0/1/1/1
5	NAG	C	2003	1	-	3/6/23/26	0/1/1/1
5	NAG	D	2004	1	-	4/6/23/26	0/1/1/1

There are no bond length outliers.

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed($^{\circ}$)	Ideal($^{\circ}$)
5	C	2002	NAG	C1-O5-C5	2.17	115.13	112.19
5	B	2003	NAG	O5-C5-C6	2.10	110.49	107.20
5	D	2001	NAG	O5-C5-C6	2.00	110.35	107.20

There are no chirality outliers.

All (71) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	A	2001	NAG	C3-C2-N2-C7
5	A	2001	NAG	C8-C7-N2-C2
5	A	2001	NAG	O7-C7-N2-C2
5	A	2002	NAG	O7-C7-N2-C2
5	A	2003	NAG	C8-C7-N2-C2
5	A	2003	NAG	O7-C7-N2-C2
5	A	2004	NAG	C3-C2-N2-C7
5	A	2004	NAG	C8-C7-N2-C2
5	A	2004	NAG	O7-C7-N2-C2
5	A	2005	NAG	C3-C2-N2-C7
5	A	2005	NAG	C8-C7-N2-C2
5	A	2005	NAG	O7-C7-N2-C2
5	B	2001	NAG	C1-C2-N2-C7
5	B	2001	NAG	C8-C7-N2-C2
5	B	2001	NAG	O7-C7-N2-C2
5	B	2002	NAG	C8-C7-N2-C2
5	B	2002	NAG	O7-C7-N2-C2
5	B	2004	NAG	C3-C2-N2-C7
5	B	2004	NAG	C8-C7-N2-C2
5	B	2004	NAG	O7-C7-N2-C2
5	B	2005	NAG	C8-C7-N2-C2
5	B	2005	NAG	O7-C7-N2-C2
5	C	2001	NAG	C3-C2-N2-C7
5	C	2001	NAG	C8-C7-N2-C2
5	C	2001	NAG	O7-C7-N2-C2
5	C	2002	NAG	C3-C2-N2-C7
5	C	2003	NAG	C8-C7-N2-C2
5	C	2003	NAG	O7-C7-N2-C2
5	C	2004	NAG	C8-C7-N2-C2
5	C	2004	NAG	O7-C7-N2-C2
5	C	2005	NAG	C3-C2-N2-C7
5	C	2005	NAG	C8-C7-N2-C2

Continued on next page...

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Mol	Chain	Res	Type	Atoms
5	C	2005	NAG	O7-C7-N2-C2
5	D	2002	NAG	C3-C2-N2-C7
5	D	2002	NAG	C8-C7-N2-C2
5	D	2002	NAG	O7-C7-N2-C2
5	D	2003	NAG	C8-C7-N2-C2
5	D	2003	NAG	O7-C7-N2-C2
5	D	2004	NAG	C8-C7-N2-C2
5	D	2004	NAG	O7-C7-N2-C2
5	D	2005	NAG	O7-C7-N2-C2
5	A	2002	NAG	C8-C7-N2-C2
5	B	2003	NAG	C8-C7-N2-C2
5	B	2003	NAG	O7-C7-N2-C2
5	C	2002	NAG	C8-C7-N2-C2
5	C	2002	NAG	O7-C7-N2-C2
5	D	2005	NAG	C8-C7-N2-C2
5	C	2004	NAG	C1-C2-N2-C7
5	D	2004	NAG	C1-C2-N2-C7
5	A	2003	NAG	C1-C2-N2-C7
5	C	2003	NAG	C1-C2-N2-C7
5	B	2003	NAG	C1-C2-N2-C7
5	B	2004	NAG	C4-C5-C6-O6
5	D	2005	NAG	C1-C2-N2-C7
5	B	2005	NAG	O5-C5-C6-O6
5	D	2002	NAG	O5-C5-C6-O6
5	A	2005	NAG	O5-C5-C6-O6
5	A	2002	NAG	O5-C5-C6-O6
5	B	2002	NAG	O5-C5-C6-O6
5	C	2005	NAG	O5-C5-C6-O6
5	C	2002	NAG	O5-C5-C6-O6
5	D	2005	NAG	O5-C5-C6-O6
5	D	2004	NAG	C3-C2-N2-C7
5	D	2001	NAG	C8-C7-N2-C2
5	B	2004	NAG	O5-C5-C6-O6
5	D	2001	NAG	O7-C7-N2-C2
5	B	2001	NAG	C3-C2-N2-C7
5	B	2002	NAG	C3-C2-N2-C7
5	C	2004	NAG	C3-C2-N2-C7
5	D	2001	NAG	C1-C2-N2-C7
5	D	2001	NAG	C3-C2-N2-C7

There are no ring outliers.

8 monomers are involved in 17 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	D	2002	NAG	1	0
5	A	2003	NAG	1	0
5	C	2005	NAG	1	0
5	A	2005	NAG	1	0
5	C	2004	NAG	7	0
5	C	2001	NAG	2	0
5	B	2001	NAG	3	0
5	C	2003	NAG	1	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

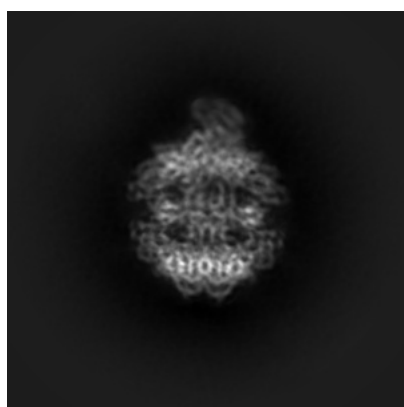
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-12755. These allow visual inspection of the internal detail of the map and identification of artifacts.

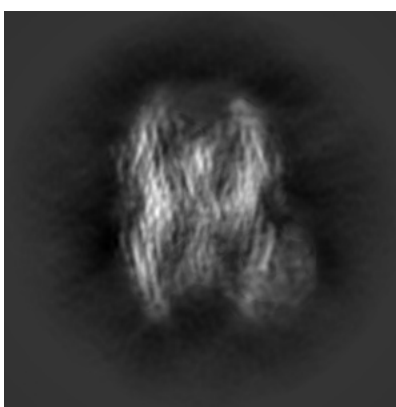
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

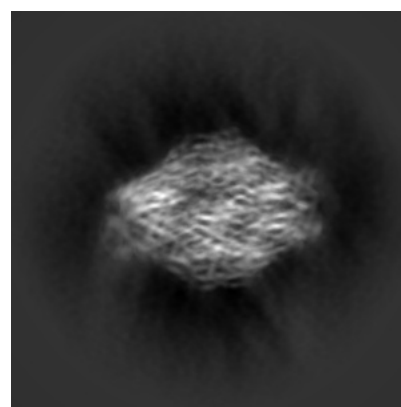
6.1.1 Primary map



X



Y

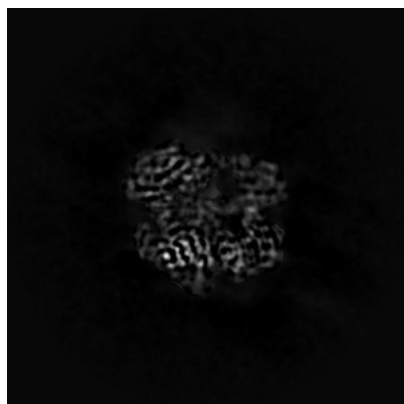


Z

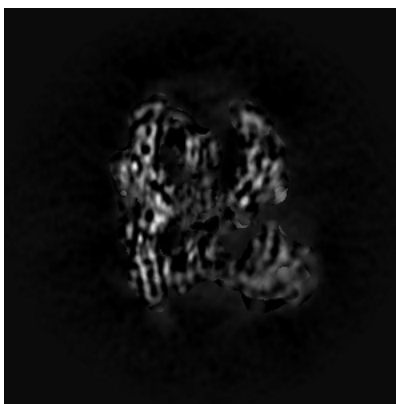
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

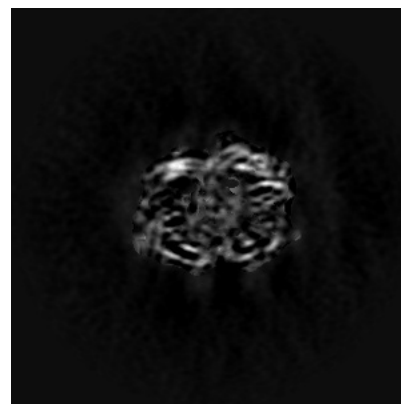
6.2.1 Primary map



X Index: 160



Y Index: 160

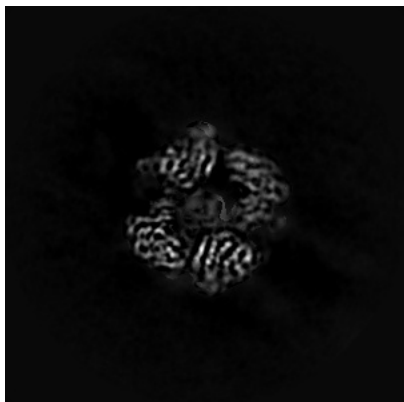


Z Index: 160

The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [\(i\)](#)

6.3.1 Primary map



X Index: 175



Y Index: 171

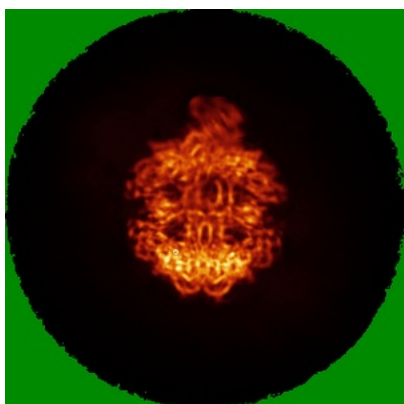


Z Index: 117

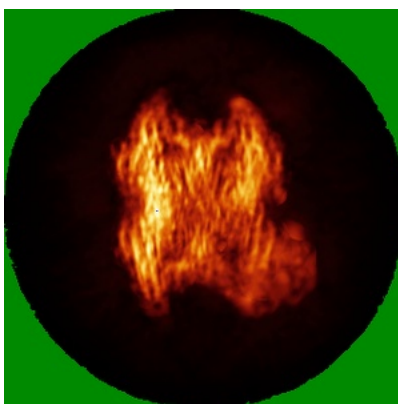
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) [\(i\)](#)

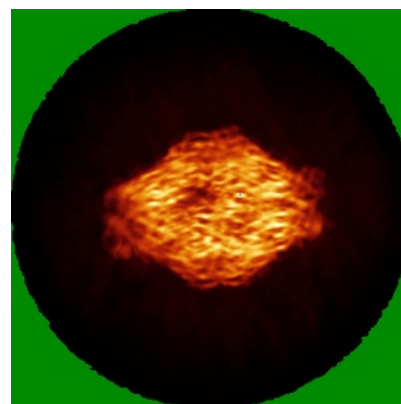
6.4.1 Primary map



X



Y

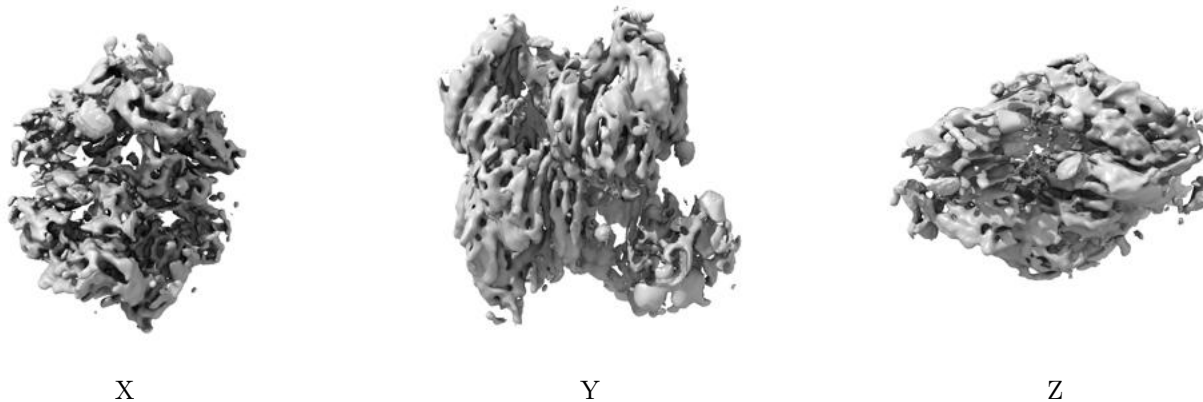


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.013. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

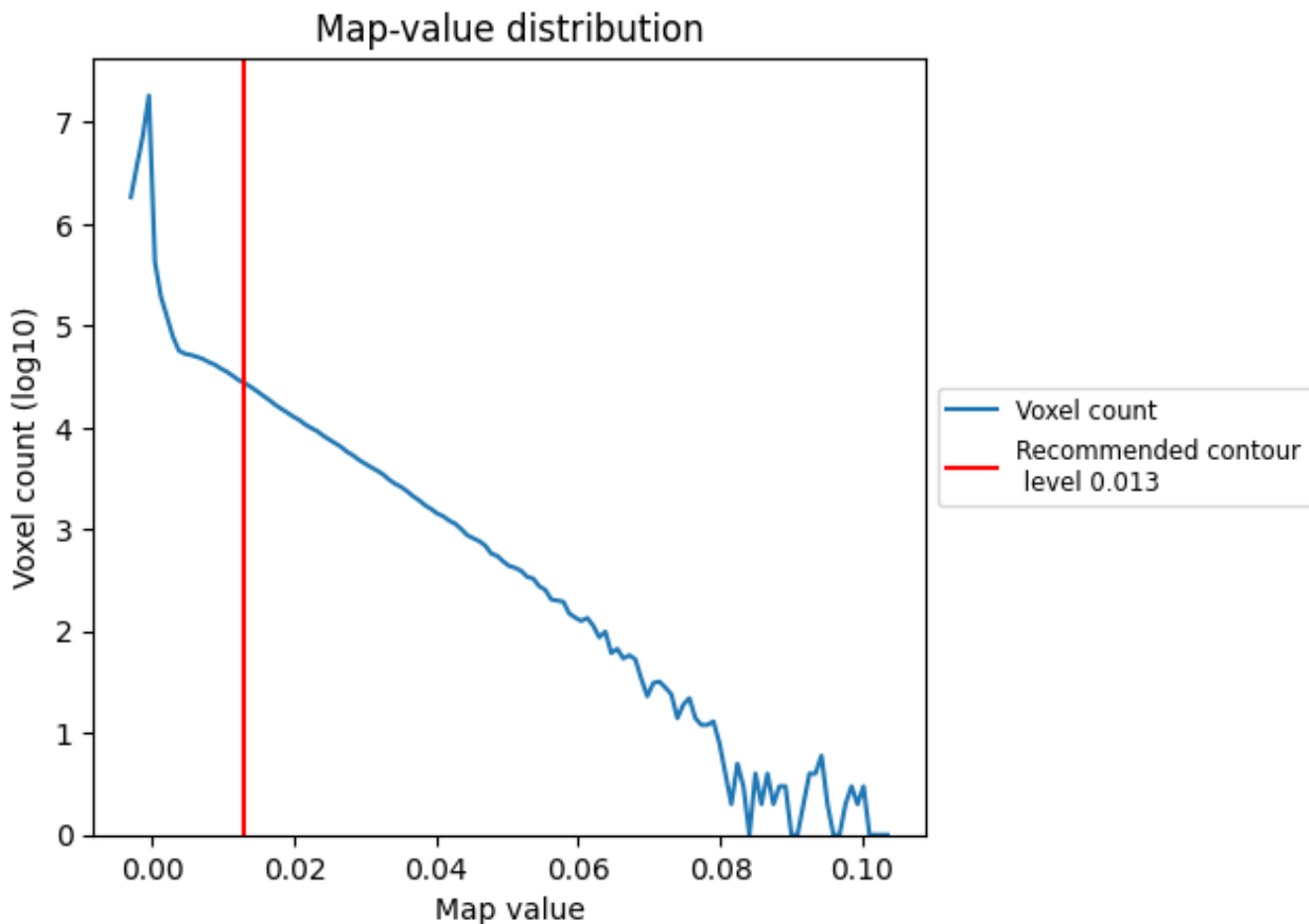
6.6 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis [i](#)

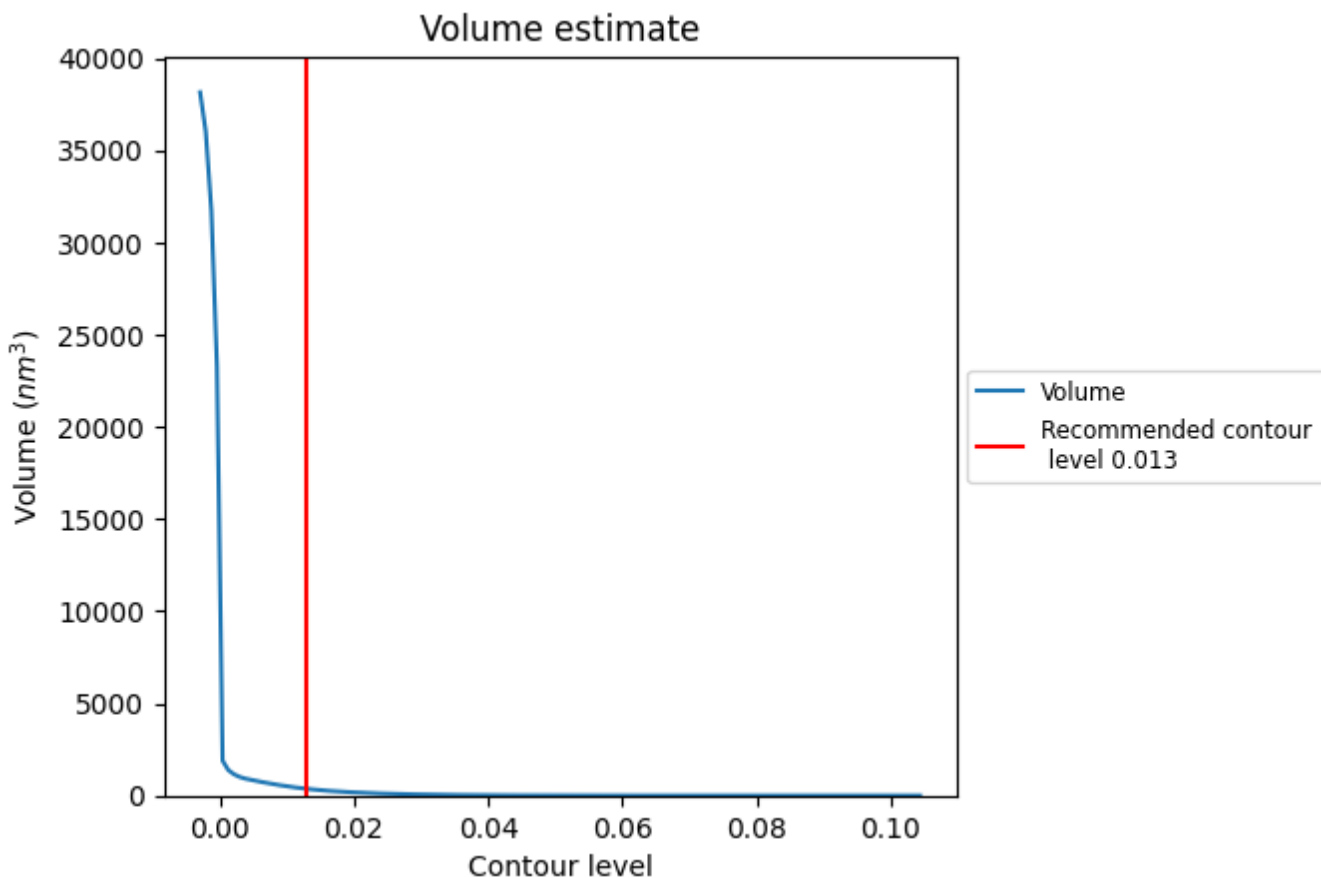
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

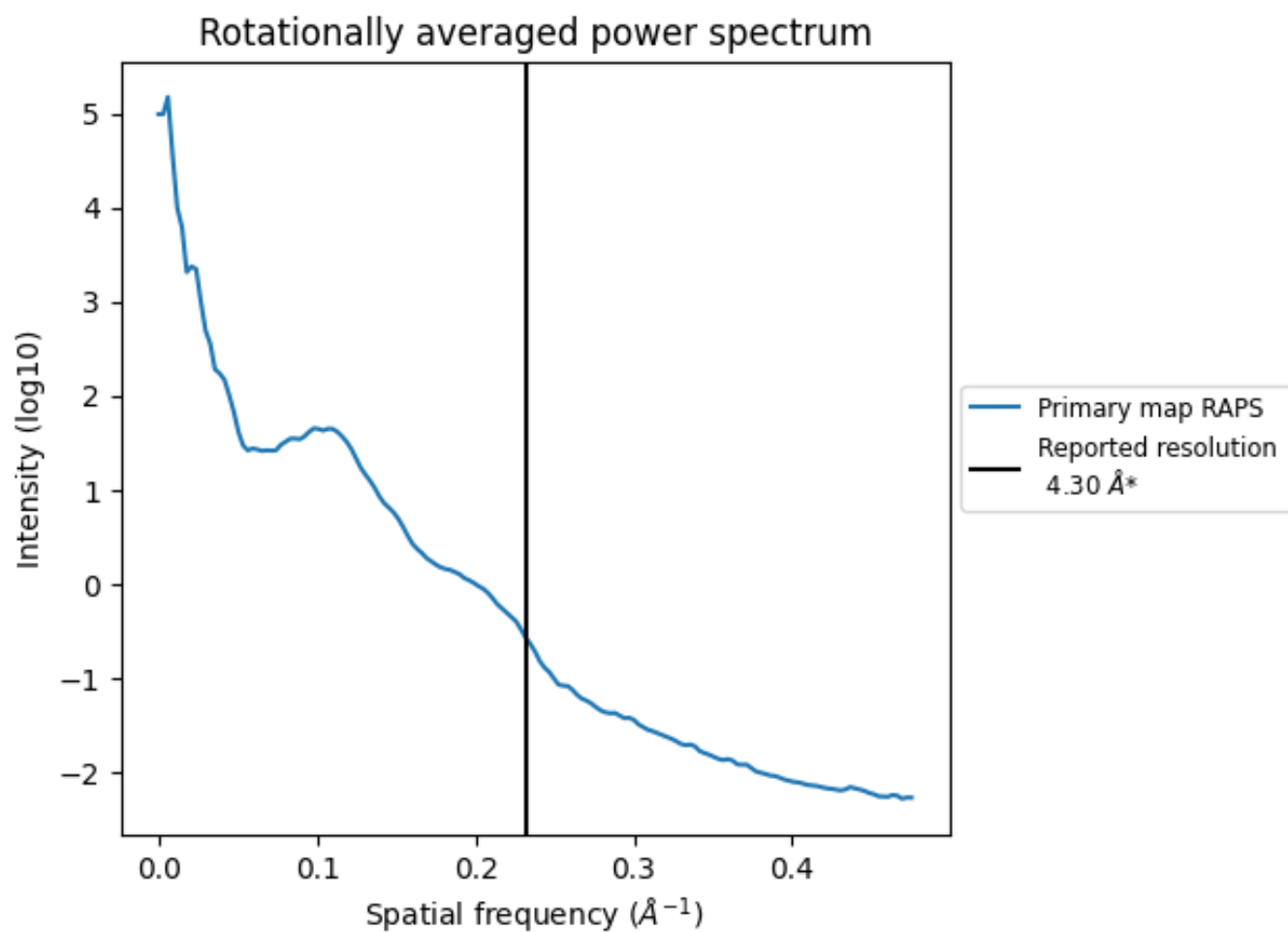
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 365 nm³; this corresponds to an approximate mass of 330 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum [i](#)



*Reported resolution corresponds to spatial frequency of 0.233\AA^{-1}

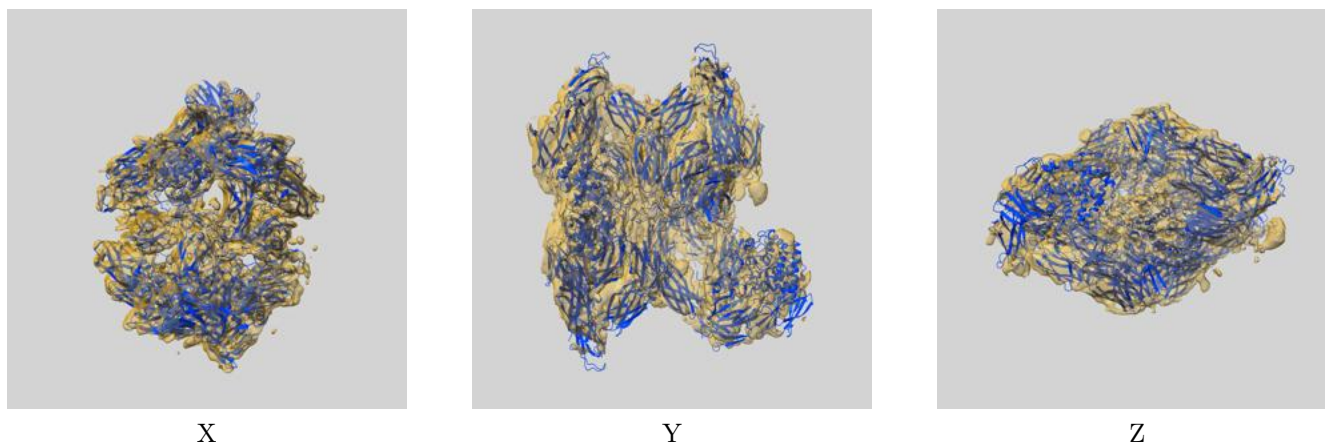
8 Fourier-Shell correlation

This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit [i](#)

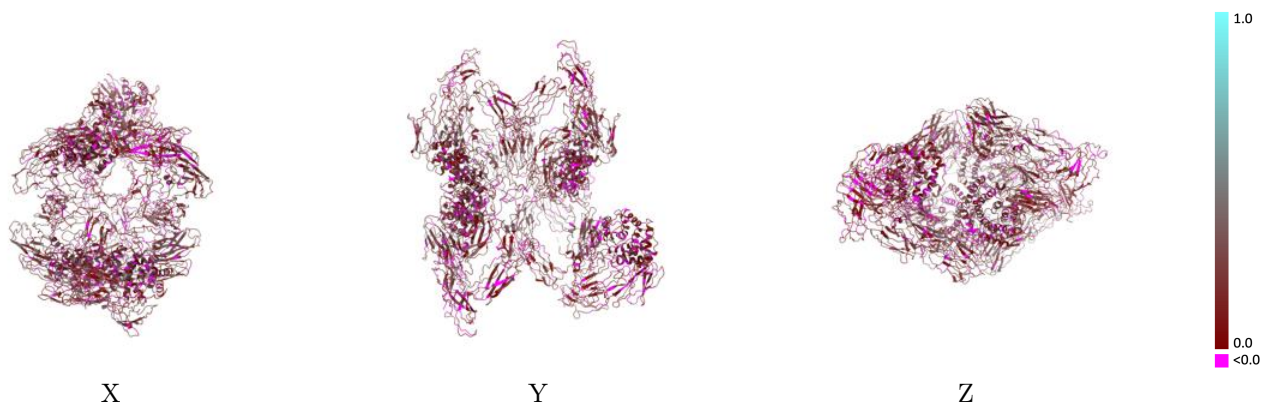
This section contains information regarding the fit between EMDB map EMD-12755 and PDB model 7O7S. Per-residue inclusion information can be found in section 3 on page 7.

9.1 Map-model overlay [i](#)



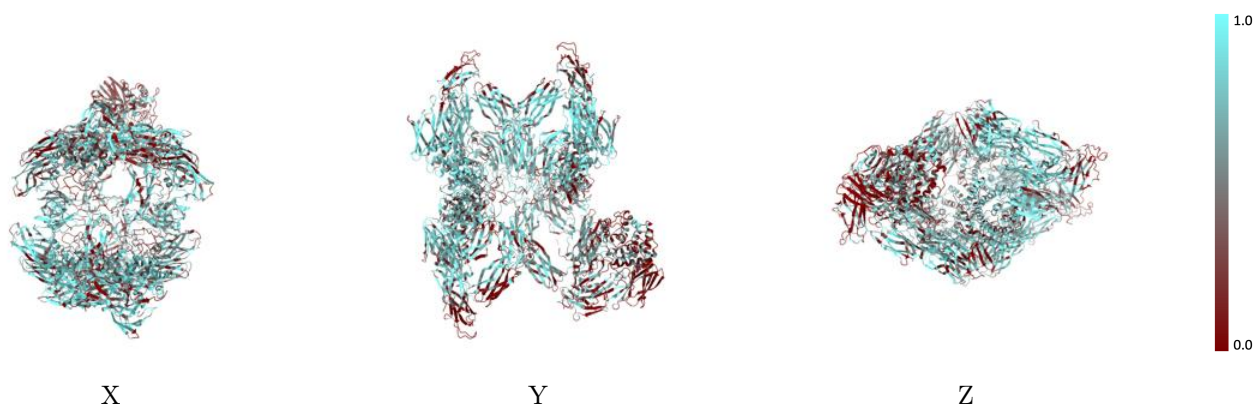
The images above show the 3D surface view of the map at the recommended contour level 0.013 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [\(i\)](#)



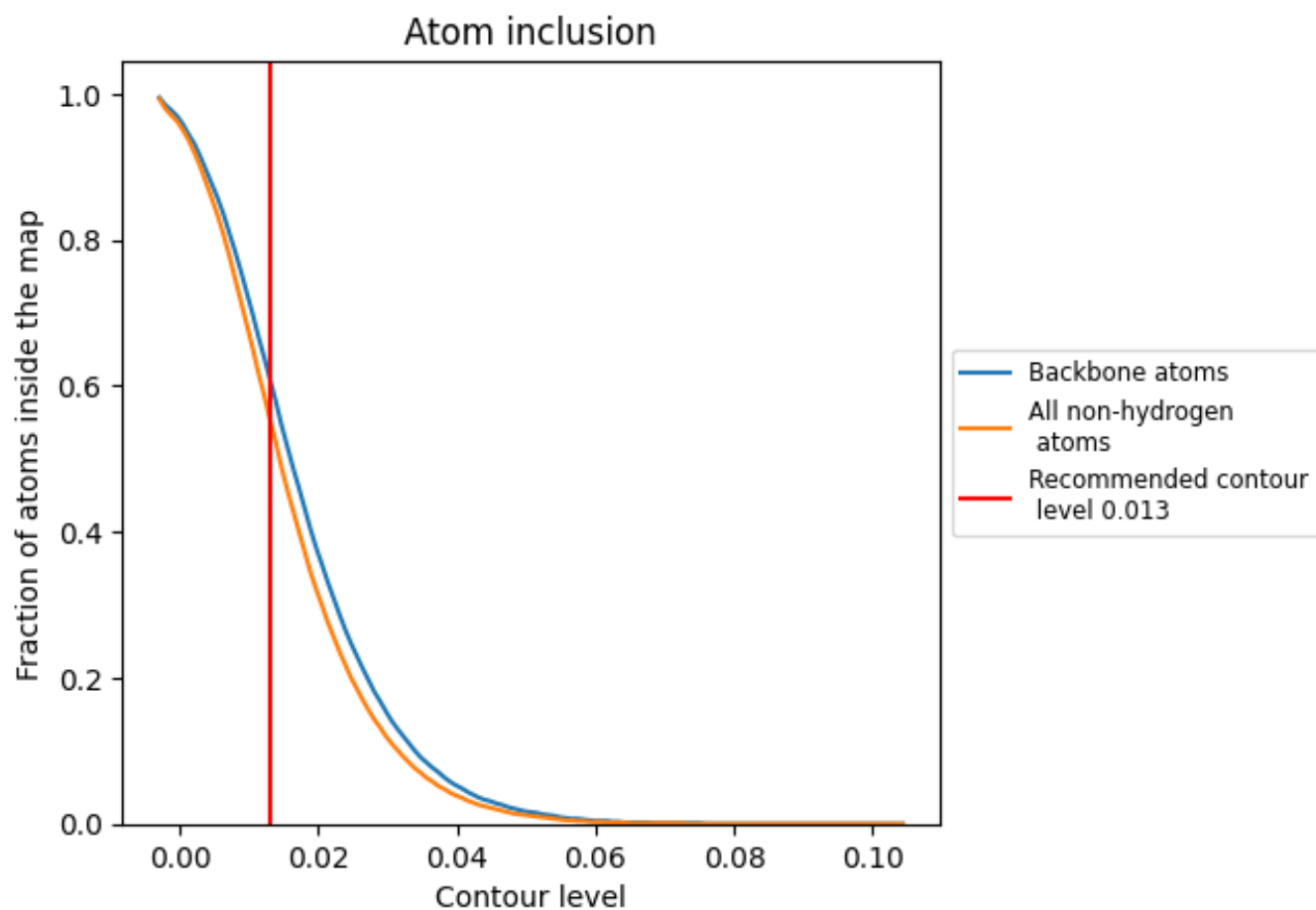
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [\(i\)](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.013).





























9.4 Atom inclusion [i](#)



At the recommended contour level, 61% of all backbone atoms, 55% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.013) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	 0.5540	 0.1830
A	 0.6670	 0.2180
B	 0.6060	 0.1880
C	 0.5400	 0.1770
D	 0.4200	 0.1530
E	 0.5710	 0.2100
F	 0.4870	 0.0030
G	 0.6430	 0.2550
H	 0.6410	 0.1860
I	 0.3570	 0.2860
J	 0.8460	 0.2750
K	 0.6430	 0.1600
L	 0.0000	 0.1340
M	 0.2310	 0.2440

