



Full wwPDB EM Validation Report ⓘ

May 31, 2022 – 07:24 pm BST

PDB ID : 7R4R
EMDB ID : EMD-14315
Title : The SARS-CoV-2 spike in complex with the 1.10 neutralizing nanobody
Authors : Casasnovas, J.M.; Melero, R.; Arranz, R.; Fernandez, L.A.
Deposited on : 2022-02-09
Resolution : 3.90 Å (reported)
Based on initial models : 1ZV5, 6ZXN

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

EMDB validation analysis : 0.0.1.dev8
Mogul : 1.8.4, CSD as541be (2020)
MolProbity : 4.02b-467
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.28.1

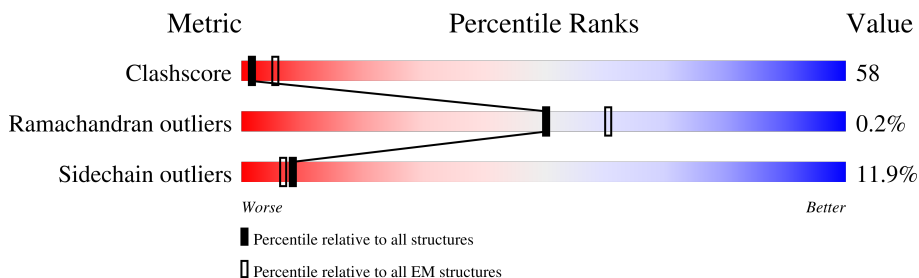
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 3.90 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	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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	1264	<div style="display: flex; justify-content: space-between;"> 13% 28% 41% 11% • 16% </div>
1	B	1264	<div style="display: flex; justify-content: space-between;"> 16% 27% 42% 11% • 17% </div>
1	C	1264	<div style="display: flex; justify-content: space-between;"> 15% 27% 41% 12% • 16% </div>
2	D	124	<div style="display: flex; justify-content: space-between;"> 66% 47% 45% • • </div>
3	E	2	<div style="display: flex; justify-content: space-between;"> 50% 50% </div>
3	F	2	<div style="display: flex; justify-content: space-between;"> 50% 100% </div>
3	G	2	<div style="display: flex; justify-content: space-between;"> 50% 100% </div>
3	H	2	<div style="display: flex; justify-content: space-between;"> 100% </div>

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Mol	Chain	Length	Quality of chain
3	I	2	 100%

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
3	NAG	G	1	-	-	X	-
4	NAG	A	1312	-	-	X	-
4	NAG	B	1302	-	-	X	-
4	NAG	C	1303	X	-	-	-
4	NAG	C	1306	X	-	-	-

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 51042 atoms, of which 24708 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 Spike glycoprotein.

Mol	Chain	Residues	Atoms						AltConf	Trace
			Total	C	H	N	O	S		
1	A	1060	16360	5292	8068	1382	1580	38	1	0
1	B	1054	16287	5268	8034	1376	1571	38	3	0
1	C	1060	16361	5292	8069	1382	1580	38	1	0

There are 186 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	682	GLY	ARG	variant	UNP P0DTC2
A	683	SER	ARG	variant	UNP P0DTC2
A	685	SER	ARG	variant	UNP P0DTC2
A	942	PRO	ALA	variant	UNP P0DTC2
A	986	PRO	LYS	engineered mutation	UNP P0DTC2
A	987	PRO	VAL	engineered mutation	UNP P0DTC2
A	1209	GLY	-	expression tag	UNP P0DTC2
A	1210	SER	-	expression tag	UNP P0DTC2
A	1211	GLY	-	expression tag	UNP P0DTC2
A	1212	SER	-	expression tag	UNP P0DTC2
A	1213	GLY	-	expression tag	UNP P0DTC2
A	1214	TYR	-	expression tag	UNP P0DTC2
A	1215	ILE	-	expression tag	UNP P0DTC2
A	1216	PRO	-	expression tag	UNP P0DTC2
A	1217	GLU	-	expression tag	UNP P0DTC2
A	1218	ALA	-	expression tag	UNP P0DTC2
A	1219	PRO	-	expression tag	UNP P0DTC2
A	1220	ARG	-	expression tag	UNP P0DTC2
A	1221	ASP	-	expression tag	UNP P0DTC2
A	1222	GLY	-	expression tag	UNP P0DTC2
A	1223	GLN	-	expression tag	UNP P0DTC2
A	1224	ALA	-	expression tag	UNP P0DTC2
A	1225	TYR	-	expression tag	UNP P0DTC2
A	1226	VAL	-	expression tag	UNP P0DTC2

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Chain	Residue	Modelled	Actual	Comment	Reference
A	1227	ARG	-	expression tag	UNP P0DTC2
A	1228	LYS	-	expression tag	UNP P0DTC2
A	1229	ASP	-	expression tag	UNP P0DTC2
A	1230	GLY	-	expression tag	UNP P0DTC2
A	1231	GLU	-	expression tag	UNP P0DTC2
A	1232	TRP	-	expression tag	UNP P0DTC2
A	1233	VAL	-	expression tag	UNP P0DTC2
A	1234	LEU	-	expression tag	UNP P0DTC2
A	1235	LEU	-	expression tag	UNP P0DTC2
A	1236	SER	-	expression tag	UNP P0DTC2
A	1237	THR	-	expression tag	UNP P0DTC2
A	1238	PHE	-	expression tag	UNP P0DTC2
A	1239	LEU	-	expression tag	UNP P0DTC2
A	1240	GLY	-	expression tag	UNP P0DTC2
A	1241	THR	-	expression tag	UNP P0DTC2
A	1242	GLU	-	expression tag	UNP P0DTC2
A	1243	ASN	-	expression tag	UNP P0DTC2
A	1244	LEU	-	expression tag	UNP P0DTC2
A	1245	TYR	-	expression tag	UNP P0DTC2
A	1246	PHE	-	expression tag	UNP P0DTC2
A	1247	GLN	-	expression tag	UNP P0DTC2
A	1248	GLY	-	expression tag	UNP P0DTC2
A	1249	ASP	-	expression tag	UNP P0DTC2
A	1250	TYR	-	expression tag	UNP P0DTC2
A	1251	LYS	-	expression tag	UNP P0DTC2
A	1252	ASP	-	expression tag	UNP P0DTC2
A	1253	ASP	-	expression tag	UNP P0DTC2
A	1254	ASP	-	expression tag	UNP P0DTC2
A	1255	ASP	-	expression tag	UNP P0DTC2
A	1256	LYS	-	expression tag	UNP P0DTC2
A	1257	GLY	-	expression tag	UNP P0DTC2
A	1258	SER	-	expression tag	UNP P0DTC2
A	1259	HIS	-	expression tag	UNP P0DTC2
A	1260	HIS	-	expression tag	UNP P0DTC2
A	1261	HIS	-	expression tag	UNP P0DTC2
A	1262	HIS	-	expression tag	UNP P0DTC2
A	1263	HIS	-	expression tag	UNP P0DTC2
A	1264	HIS	-	expression tag	UNP P0DTC2
B	682	GLY	ARG	variant	UNP P0DTC2
B	683	SER	ARG	variant	UNP P0DTC2
B	685	SER	ARG	variant	UNP P0DTC2
B	942	PRO	ALA	variant	UNP P0DTC2

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Chain	Residue	Modelled	Actual	Comment	Reference
B	986	PRO	LYS	engineered mutation	UNP P0DTC2
B	987	PRO	VAL	engineered mutation	UNP P0DTC2
B	1209	GLY	-	expression tag	UNP P0DTC2
B	1210	SER	-	expression tag	UNP P0DTC2
B	1211	GLY	-	expression tag	UNP P0DTC2
B	1212	SER	-	expression tag	UNP P0DTC2
B	1213	GLY	-	expression tag	UNP P0DTC2
B	1214	TYR	-	expression tag	UNP P0DTC2
B	1215	ILE	-	expression tag	UNP P0DTC2
B	1216	PRO	-	expression tag	UNP P0DTC2
B	1217	GLU	-	expression tag	UNP P0DTC2
B	1218	ALA	-	expression tag	UNP P0DTC2
B	1219	PRO	-	expression tag	UNP P0DTC2
B	1220	ARG	-	expression tag	UNP P0DTC2
B	1221	ASP	-	expression tag	UNP P0DTC2
B	1222	GLY	-	expression tag	UNP P0DTC2
B	1223	GLN	-	expression tag	UNP P0DTC2
B	1224	ALA	-	expression tag	UNP P0DTC2
B	1225	TYR	-	expression tag	UNP P0DTC2
B	1226	VAL	-	expression tag	UNP P0DTC2
B	1227	ARG	-	expression tag	UNP P0DTC2
B	1228	LYS	-	expression tag	UNP P0DTC2
B	1229	ASP	-	expression tag	UNP P0DTC2
B	1230	GLY	-	expression tag	UNP P0DTC2
B	1231	GLU	-	expression tag	UNP P0DTC2
B	1232	TRP	-	expression tag	UNP P0DTC2
B	1233	VAL	-	expression tag	UNP P0DTC2
B	1234	LEU	-	expression tag	UNP P0DTC2
B	1235	LEU	-	expression tag	UNP P0DTC2
B	1236	SER	-	expression tag	UNP P0DTC2
B	1237	THR	-	expression tag	UNP P0DTC2
B	1238	PHE	-	expression tag	UNP P0DTC2
B	1239	LEU	-	expression tag	UNP P0DTC2
B	1240	GLY	-	expression tag	UNP P0DTC2
B	1241	THR	-	expression tag	UNP P0DTC2
B	1242	GLU	-	expression tag	UNP P0DTC2
B	1243	ASN	-	expression tag	UNP P0DTC2
B	1244	LEU	-	expression tag	UNP P0DTC2
B	1245	TYR	-	expression tag	UNP P0DTC2
B	1246	PHE	-	expression tag	UNP P0DTC2
B	1247	GLN	-	expression tag	UNP P0DTC2
B	1248	GLY	-	expression tag	UNP P0DTC2

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Chain	Residue	Modelled	Actual	Comment	Reference
B	1249	ASP	-	expression tag	UNP P0DTC2
B	1250	TYR	-	expression tag	UNP P0DTC2
B	1251	LYS	-	expression tag	UNP P0DTC2
B	1252	ASP	-	expression tag	UNP P0DTC2
B	1253	ASP	-	expression tag	UNP P0DTC2
B	1254	ASP	-	expression tag	UNP P0DTC2
B	1255	ASP	-	expression tag	UNP P0DTC2
B	1256	LYS	-	expression tag	UNP P0DTC2
B	1257	GLY	-	expression tag	UNP P0DTC2
B	1258	SER	-	expression tag	UNP P0DTC2
B	1259	HIS	-	expression tag	UNP P0DTC2
B	1260	HIS	-	expression tag	UNP P0DTC2
B	1261	HIS	-	expression tag	UNP P0DTC2
B	1262	HIS	-	expression tag	UNP P0DTC2
B	1263	HIS	-	expression tag	UNP P0DTC2
B	1264	HIS	-	expression tag	UNP P0DTC2
C	682	GLY	ARG	variant	UNP P0DTC2
C	683	SER	ARG	variant	UNP P0DTC2
C	685	SER	ARG	variant	UNP P0DTC2
C	942	PRO	ALA	variant	UNP P0DTC2
C	986	PRO	LYS	engineered mutation	UNP P0DTC2
C	987	PRO	VAL	engineered mutation	UNP P0DTC2
C	1209	GLY	-	expression tag	UNP P0DTC2
C	1210	SER	-	expression tag	UNP P0DTC2
C	1211	GLY	-	expression tag	UNP P0DTC2
C	1212	SER	-	expression tag	UNP P0DTC2
C	1213	GLY	-	expression tag	UNP P0DTC2
C	1214	TYR	-	expression tag	UNP P0DTC2
C	1215	ILE	-	expression tag	UNP P0DTC2
C	1216	PRO	-	expression tag	UNP P0DTC2
C	1217	GLU	-	expression tag	UNP P0DTC2
C	1218	ALA	-	expression tag	UNP P0DTC2
C	1219	PRO	-	expression tag	UNP P0DTC2
C	1220	ARG	-	expression tag	UNP P0DTC2
C	1221	ASP	-	expression tag	UNP P0DTC2
C	1222	GLY	-	expression tag	UNP P0DTC2
C	1223	GLN	-	expression tag	UNP P0DTC2
C	1224	ALA	-	expression tag	UNP P0DTC2
C	1225	TYR	-	expression tag	UNP P0DTC2
C	1226	VAL	-	expression tag	UNP P0DTC2
C	1227	ARG	-	expression tag	UNP P0DTC2
C	1228	LYS	-	expression tag	UNP P0DTC2

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Chain	Residue	Modelled	Actual	Comment	Reference
C	1229	ASP	-	expression tag	UNP P0DTC2
C	1230	GLY	-	expression tag	UNP P0DTC2
C	1231	GLU	-	expression tag	UNP P0DTC2
C	1232	TRP	-	expression tag	UNP P0DTC2
C	1233	VAL	-	expression tag	UNP P0DTC2
C	1234	LEU	-	expression tag	UNP P0DTC2
C	1235	LEU	-	expression tag	UNP P0DTC2
C	1236	SER	-	expression tag	UNP P0DTC2
C	1237	THR	-	expression tag	UNP P0DTC2
C	1238	PHE	-	expression tag	UNP P0DTC2
C	1239	LEU	-	expression tag	UNP P0DTC2
C	1240	GLY	-	expression tag	UNP P0DTC2
C	1241	THR	-	expression tag	UNP P0DTC2
C	1242	GLU	-	expression tag	UNP P0DTC2
C	1243	ASN	-	expression tag	UNP P0DTC2
C	1244	LEU	-	expression tag	UNP P0DTC2
C	1245	TYR	-	expression tag	UNP P0DTC2
C	1246	PHE	-	expression tag	UNP P0DTC2
C	1247	GLN	-	expression tag	UNP P0DTC2
C	1248	GLY	-	expression tag	UNP P0DTC2
C	1249	ASP	-	expression tag	UNP P0DTC2
C	1250	TYR	-	expression tag	UNP P0DTC2
C	1251	LYS	-	expression tag	UNP P0DTC2
C	1252	ASP	-	expression tag	UNP P0DTC2
C	1253	ASP	-	expression tag	UNP P0DTC2
C	1254	ASP	-	expression tag	UNP P0DTC2
C	1255	ASP	-	expression tag	UNP P0DTC2
C	1256	LYS	-	expression tag	UNP P0DTC2
C	1257	GLY	-	expression tag	UNP P0DTC2
C	1258	SER	-	expression tag	UNP P0DTC2
C	1259	HIS	-	expression tag	UNP P0DTC2
C	1260	HIS	-	expression tag	UNP P0DTC2
C	1261	HIS	-	expression tag	UNP P0DTC2
C	1262	HIS	-	expression tag	UNP P0DTC2
C	1263	HIS	-	expression tag	UNP P0DTC2
C	1264	HIS	-	expression tag	UNP P0DTC2

- Molecule 2 is a protein called Camel-derived nanobody 1.10.

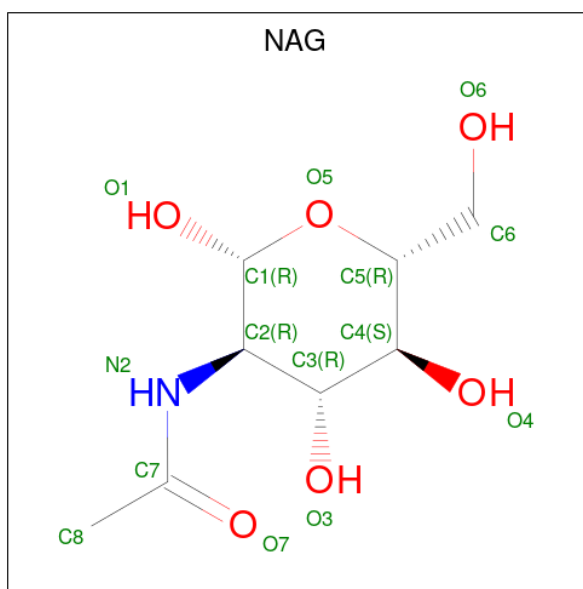
Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	D	119	895	554	154	182	5	0	0

- Molecule 3 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	H	N	O		
3	E	2	Total	C	H	N	O	0	0
			53	16	25	2	10		
3	F	2	Total	C	H	N	O	0	0
			53	16	25	2	10		
3	G	2	Total	C	H	N	O	0	0
			53	16	25	2	10		
3	H	2	Total	C	H	N	O	0	0
			53	16	25	2	10		
3	I	2	Total	C	H	N	O	0	0
			53	16	25	2	10		

- Molecule 4 is 2-acetamido-2-deoxy-beta-D-glucopyranose (three-letter code: NAG) (formula: C₈H₁₅NO₆).



Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
4	A	1	Total	C	H	N	O	0
			350	104	168	13	65	
4	A	1	Total	C	H	N	O	0
			350	104	168	13	65	
4	A	1	Total	C	H	N	O	0
			350	104	168	13	65	

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Mol	Chain	Residues	Atoms					AltConf
			Total	C	H	N	O	
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	A	1	350	104	168	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0
4	B	1	349	104	167	13	65	0

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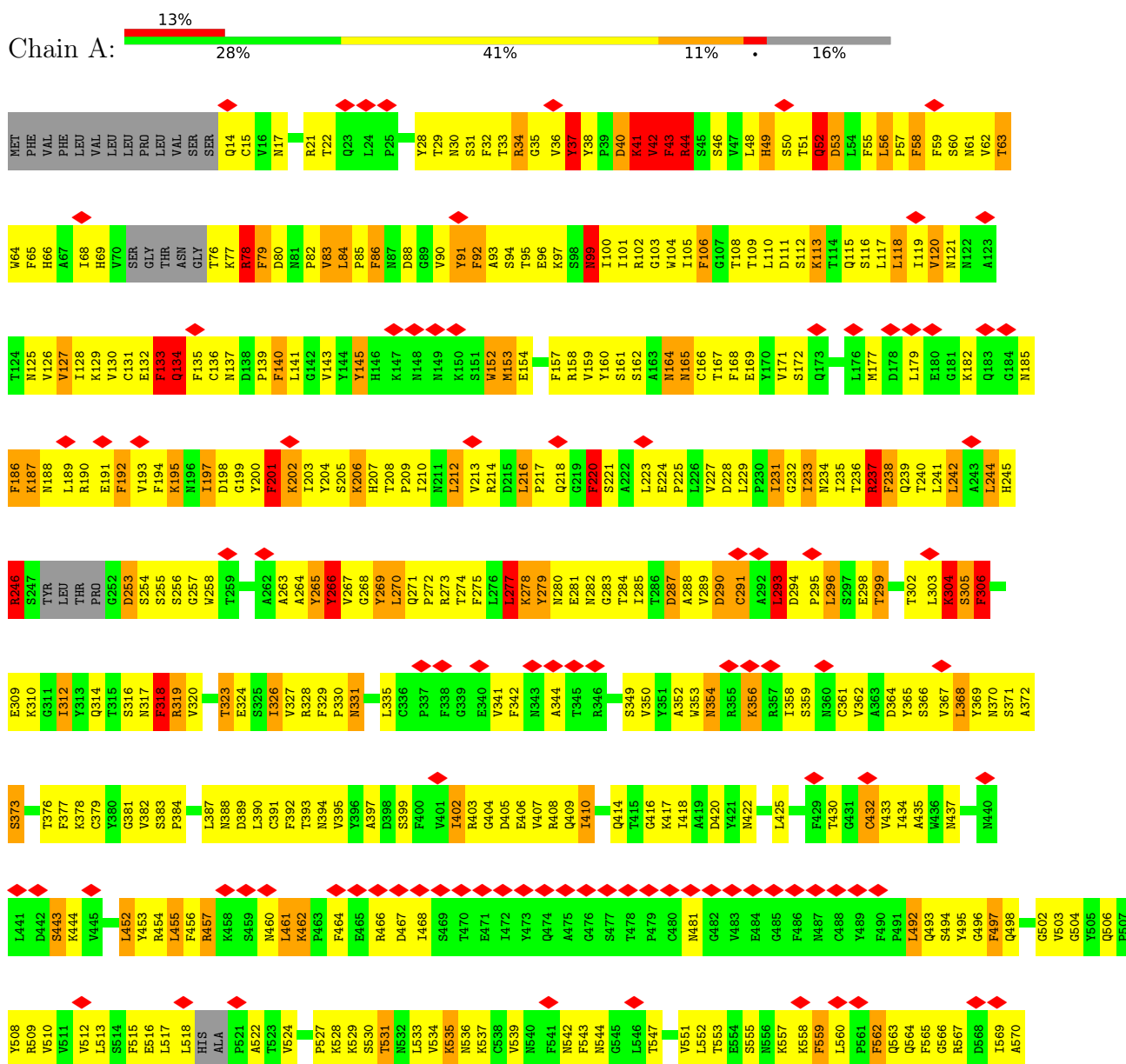
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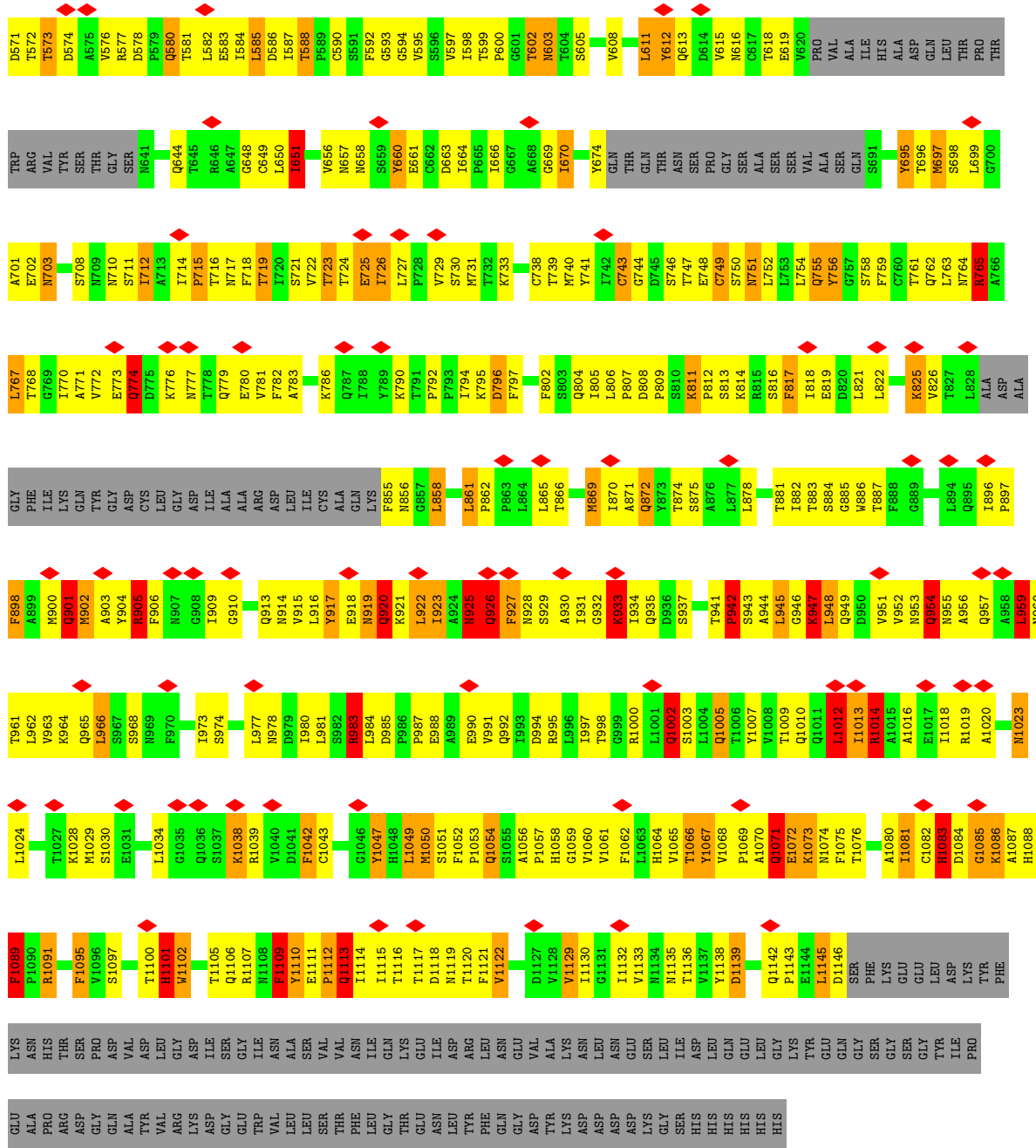
Mol	Chain	Residues	Atoms					AltConf
4	B	1	Total	C	H	N	O	0
			349	104	167	13	65	
4	B	1	Total	C	H	N	O	0
			349	104	167	13	65	
4	C	1	Total	C	H	N	O	0
			175	56	77	7	35	
4	C	1	Total	C	H	N	O	0
			175	56	77	7	35	
4	C	1	Total	C	H	N	O	0
			175	56	77	7	35	
4	C	1	Total	C	H	N	O	0
			175	56	77	7	35	
4	C	1	Total	C	H	N	O	0
			175	56	77	7	35	
4	C	1	Total	C	H	N	O	0
			175	56	77	7	35	

3 Residue-property plots [i](#)

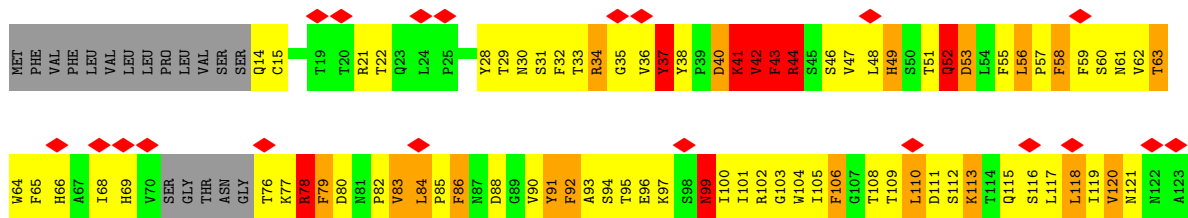
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Spike glycoprotein

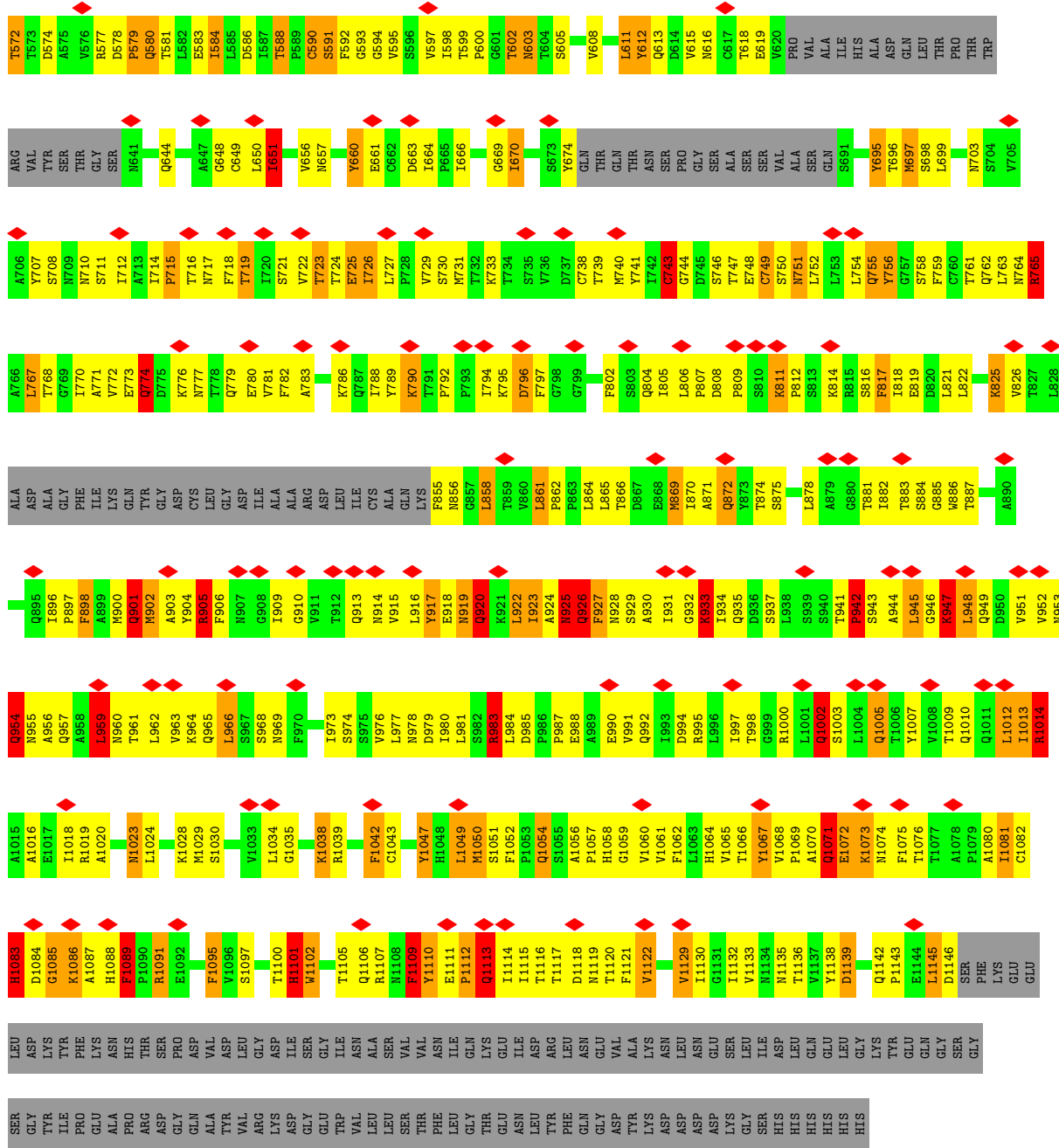




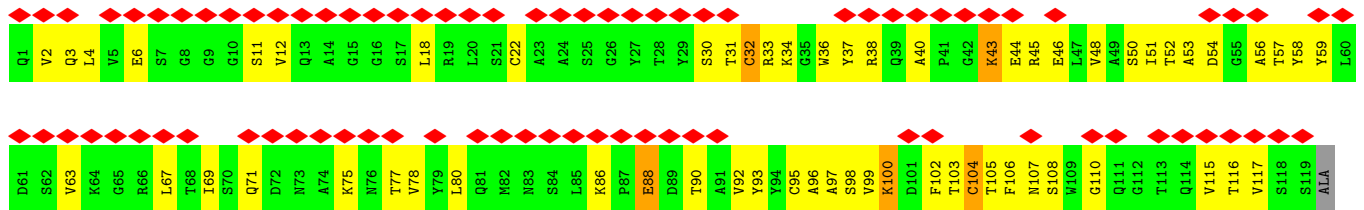
• Molecule 1: Spike glycoprotein



R854	N955	A956	Q957	A958	L959	N960	T961	L962	V963	K964	Q965	Y966	S967	S968	N969	F970	G971	A972	I973	S974	S975	I976	L977	N978	D979	N980	L981	S982	L983	D985	R986	F987	E988	N989	S990	Q991	Q992	I993	N994	R995	L996	I997	G999	R1000	L1001	Q1002	Q1005	T1006	V1008	T1009	Q1010	Q1011	L1012	I1013	N953			
A893	L894	Q895	T896	P897	F898	N960	A899	M900	Q901	M902	A903	Q965	Y904	R905	F906	N907	Q908	F970	G971	A972	I973	S974	S975	I976	L977	N978	D979	N980	L981	S982	L983	D985	R986	F987	E988	N989	S990	Q991	Q992	I993	N994	R995	L996	I997	G999	R1000	L1001	Q1002	Q1005	T1006	V1008	T1009	Q1010	Q1011	L1012	I1013	N953	
R765	A766	L767	T768	G769	T770	A771	V772	E773	G774	D775	K776	N777	T778	Q779	E780	F781	F782	A783	G784	V785	K786	Q787	I788	A789	K790	F791	I792	I793	I794	K795	D796	F797	G798	G799	F800	Q804	L805	L806	P807	D808	P809	S810	K811	P812	K813	K814	B815	S816	F817	I818	E819	D820	L821	L822	K825	V826		
N703	S704	V705	A706	Y707	S708	N709	N710	E711	S712	L713	A714	F715	T716	N717	F718	T719	I720	G721	V722	T723	T724	E725	I726	L727	F728	V729	S730	M731	T732	K733	D737	C738	T739	M740	Y741	T742	C743	G744	D745	S746	T747	E748	G749	S750	N751	L752	L753	L754	Q755	Y756	G757	S758	E759	L760	F761	Q762	L763	N764
THR	GLY	SER	H641	Q644	G648	C649	L650	L651	L652	P653	G654	A653	H655	N656	N657	N658	S659	V660	D661	D662	D663	L664	F665	L666	G667	A668	G669	L670	Y674	GLN	THR	GLN	THR	ASN	PRO	GLY	SER	ALA	SER	VAL	ALA	ALA	SER	GLN	S691	L692	L693	A694	L695	T696	M697	S698	L699	G700	A701	E702		
ASP	PRO	GLN	THR	LEU	GLU	I584	L585	D586	L587	T588	P589	C590	S591	F592	G593	G594	K529	S530	T531	N532	L533	V534	K535	N536	K537	L538	C538	V539	N540	F541	N542	F543	N544	L546	V551	L552	T553	S555	N556	K557	F558	L560	P561	Q563	R567	D568	L569	A570	D571	T572	T573	D574	A575	V576	R577			
ASP	PRO	GLN	THR	LEU	GLU	I584	L585	D586	L587	T588	P589	C590	S591	F592	G593	G594	K529	S530	T531	N532	L533	V534	K535	N536	K537	L538	C538	V539	N540	F541	N542	F543	N544	L546	V551	L552	T553	S555	N556	K557	F558	L560	P561	Q563	R567	D568	L569	A570	D571	T572	T573	D574	A575	V576	R577			
THR	GLY	SER	H641	Q644	G648	C649	L650	L651	L652	P653	G654	A653	H655	N656	N657	N658	S659	V660	D661	D662	D663	L664	F665	L666	G667	A668	G669	L670	Y674	GLN	THR	GLN	THR	ASN	PRO	GLY	SER	ALA	SER	VAL	ALA	ALA	SER	GLN	S691	L692	L693	A694	L695	T696	M697	S698	L699	G700	A701	E702		
N703	S704	V705	A706	Y707	S708	N709	N710	E711	S712	L713	A714	F715	T716	N717	F718	T719	I720	G721	V722	T723	T724	E725	I726	L727	F728	V729	S730	M731	T732	K733	D737	C738	T739	M740	Y741	T742	C743	G744	D745	S746	T747	E748	G749	S750	N751	L752	L753	L754	Q755	Y756	G757	S758	E759	L760	F761	Q762	L763	N764
R765	A766	L767	T768	G769	T770	A771	V772	E773	G774	D775	K776	N777	T778	Q779	E780	F781	F782	A783	G784	V785	K786	Q787	I788	A789	K790	F791	I792	I793	I794	K795	D796	F797	G798	G799	F800	Q804	L805	L806	P807	D808	P809	S810	K811	P812	K813	K814	B815	S816	F817	I818	E819	D820	L821	L822	K825	V826		
T827	L828	ALA	ASP	ALA	GLY	PHE	ILE	LYS	GLN	TYR	GLY	ASP	CYS	LEU	GLY	ASP	ILE	ALA	ARG	ASP	LEU	ILE	CYS	ALA	GLN	LYS	F885	G886	M887	L888	V889	L861	P862	P863	L864	L865	T866	E867	E868	M869	I870	A871	Q872	T873	S875	L878	T881	T882	T883	S884	G885	H886	T887					
A893	L894	Q895	T896	P897	F898	N960	A899	M900	Q901	M902	A903	Q965	Y904	R905	F906	N907	Q908	F970	G971	A972	I973	S974	S975	I976	L977	N978	D979	N980	L981	S982	L983	D985	R986	F987	E988	N989	S990	Q991	Q992	I993	N994	R995	L996	I997	G999	R1000	L1001	Q1002	Q1005	T1006	V1008	T1009	Q1010	Q1011	L1012	I1013	N953	
T124	M125	V126	I128	K129	V130	C131	E132	F133	Q134	F135	C136	M137	D138	F140	Y141	G142	V143	Y144	S205	Y145	H146	K147	M148	N149	K150	S151	M152	M153	E154	F157	R158	V159	V160	S161	S162	A163	M164	M165	C166	T167	F168	E169	Y170	S171	S172	Q173	P174	F175	L176	M177	D178	L179	E180	G181	K182	G184		
M185	F186	K187	M188	L189	R190	E191	F192	V193	F194	K195	M196	I197	D198	G199	Y200	F201	K202	I203	Y204	S205	K206	H207	T208	P209	I210	N211	L212	V213	R214	D215	P217	Q218	G219	F220	S221	A222	L223	E224	P225	M226	V227	D228	L229	P230	I231	G232	I233	N234	I235	D236	R237	F238	Q239	T240	L241	L242	A243	K244
H245	R246	S247	LEU	THR	PRO	G252	D253	S254	S255	S256	G257	M258	T259	A260	G261	A262	A263	A264	Y265	Y266	Y267	G268	Y269	Q271	Q272	R273	T274	F275	L276	L277	K278	Y279	N280	E281	N282	G283	T284	I285	T286	D287	A288	L289	D290	C291	A292	L293	D294	P295	D296	L297	E298	T299	T302	L303	K304	S305		
F306	K309	E310	G311	Y312	Y313	Q314	T315	S316	N317	F318	R319	V320	T323	E324	S325	I326	V327	R328	N331	I332	T333	N334	L335	C336	G339	E340	V341	F342	N343	T345	A344	R346	S349	V350	Y351	A352	K353	N354	R355	K356	R357	I358	S359	N360	C361	V362	A363	P295	D296	L297	E298	T299	T302	L303	K304	S305		
S371	F374	S375	K378	G381	V382	F383	S383	K386	L390	C391	F392	T393	N394	V395	Y396	D398	S399	F400	Y401	I402	R403	G404	V407	R408	Q409	A411	P412	G413	Q414	I418	Y421	M422	Y423	D427	T430	V433	I434	A435	V436	N437	A438	M439	M440	L441	D442	S443	K444											
G447	M448	Y449	L452	Y453	R454	L455	F456	R457	K458	S459	M460	L461	K462	P463	R466	D467	L468	E471	L472	Y473	Q474	A475	G476	S477	C480	M481	G482	E484	G485	M487	C488	Y489	F490	P491	L492	Q493	S494	Y495	Q498	P499	T500	N501	G502	V503	G504	Y505	Q506	P507	Y508	R509	V510							




● Molecule 2: Camel-derived nanobody 1.10



LEU
VAL
PRO
ARG

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

Chain E:  50% 50%

MAG1
MAG2

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

Chain F:  50% 100%

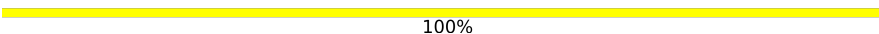
MAG1
MAG2

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

Chain G:  50% 100%

MAG1
MAG2

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

Chain H:  100%

MAG1
MAG2

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

Chain I:  100%

MAG1
MAG2

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	20000	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	30	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	4000	Depositor
Magnification	Not provided	
Image detector	FEI FALCON III (4k x 4k)	Depositor
Maximum map value	1.871	Depositor
Minimum map value	-0.002	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.026	Depositor
Recommended contour level	0.02	Depositor
Map size (Å)	418.2, 418.2, 418.2	wwPDB
Map dimensions	492, 492, 492	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.85, 0.85, 0.85	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: 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	1.50	139/8490 (1.6%)	2.57	308/11550 (2.7%)
1	B	1.51	139/8452 (1.6%)	2.57	308/11495 (2.7%)
1	C	1.51	140/8490 (1.6%)	2.57	307/11550 (2.7%)
2	D	0.26	0/910	0.52	0/1233
All	All	1.48	418/26342 (1.6%)	2.53	923/35828 (2.6%)

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	A	5	53
1	B	5	54
1	C	5	54
All	All	15	161

All (418) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	41	LYS	CB-CG	28.01	2.28	1.52
1	B	41	LYS	CB-CG	28.00	2.28	1.52
1	C	41	LYS	CB-CG	27.98	2.28	1.52
1	B	318	PHE	CG-CD1	-26.98	0.98	1.38
1	C	318	PHE	CG-CD1	-26.96	0.98	1.38
1	A	318	PHE	CG-CD1	-26.92	0.98	1.38
1	C	983	ARG	NE-CZ	-24.05	1.01	1.33
1	B	983	ARG	NE-CZ	-24.04	1.01	1.33
1	A	983	ARG	NE-CZ	-24.03	1.01	1.33
1	A	1113	GLN	CD-OE1	-23.93	0.71	1.24
1	C	1113	GLN	CD-OE1	-23.90	0.71	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1113	GLN	CD-OE1	-23.88	0.71	1.24
1	C	774	GLN	CG-CD	-23.53	0.96	1.51
1	B	774	GLN	CG-CD	-23.51	0.96	1.51
1	A	774	GLN	CG-CD	-23.51	0.96	1.51
1	A	954	GLN	CD-NE2	-22.87	0.75	1.32
1	C	954	GLN	CD-NE2	-22.85	0.75	1.32
1	B	954	GLN	CD-NE2	-22.85	0.75	1.32
1	A	600	PRO	N-CD	22.72	1.79	1.47
1	C	600	PRO	N-CD	22.72	1.79	1.47
1	B	600	PRO	N-CD	22.70	1.79	1.47
1	C	42	VAL	CB-CG2	-22.25	1.06	1.52
1	B	42	VAL	CB-CG2	-22.21	1.06	1.52
1	A	42	VAL	CB-CG2	-22.19	1.06	1.52
1	B	1002	GLN	CG-CD	-20.16	1.04	1.51
1	A	1002	GLN	CG-CD	-20.16	1.04	1.51
1	C	1002	GLN	CG-CD	-20.15	1.04	1.51
1	C	1014	ARG	CG-CD	-19.02	1.04	1.51
1	B	1014	ARG	CG-CD	-19.00	1.04	1.51
1	A	1014	ARG	CG-CD	-18.96	1.04	1.51
1	C	1071	GLN	CG-CD	-18.50	1.08	1.51
1	B	1071	GLN	CG-CD	-18.49	1.08	1.51
1	A	1071	GLN	CG-CD	-18.49	1.08	1.51
1	C	304	LYS	CG-CD	-18.36	0.90	1.52
1	A	304	LYS	CG-CD	-18.35	0.90	1.52
1	B	304	LYS	CG-CD	-18.34	0.90	1.52
1	B	231	ILE	CB-CG2	17.37	2.06	1.52
1	C	231	ILE	CB-CG2	17.34	2.06	1.52
1	A	231	ILE	CB-CG2	17.33	2.06	1.52
1	A	1129	VAL	CB-CG1	-17.12	1.16	1.52
1	B	1129	VAL	CB-CG1	-17.11	1.17	1.52
1	C	1129	VAL	CB-CG1	-17.11	1.17	1.52
1	A	600	PRO	CG-CD	-16.94	0.94	1.50
1	B	600	PRO	CG-CD	-16.93	0.94	1.50
1	C	600	PRO	CG-CD	-16.91	0.94	1.50
1	B	1071	GLN	CD-NE2	15.38	1.71	1.32
1	A	1071	GLN	CD-NE2	15.35	1.71	1.32
1	C	1071	GLN	CD-NE2	15.34	1.71	1.32
1	C	811	LYS	CB-CG	-14.10	1.14	1.52
1	A	811	LYS	CB-CG	-14.06	1.14	1.52
1	B	811	LYS	CB-CG	-14.06	1.14	1.52
1	C	723	THR	CB-CG2	13.37	1.96	1.52
1	A	723	THR	CB-CG2	13.37	1.96	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	723	THR	CB-CG2	13.36	1.96	1.52
1	B	41	LYS	CG-CD	13.29	1.97	1.52
1	C	41	LYS	CG-CD	13.27	1.97	1.52
1	A	41	LYS	CG-CD	13.25	1.97	1.52
1	A	134	GLN	CG-CD	-13.20	1.20	1.51
1	C	134	GLN	CG-CD	-13.18	1.20	1.51
1	B	134	GLN	CG-CD	-13.17	1.20	1.51
1	C	983	ARG	CZ-NH1	13.15	1.50	1.33
1	A	983	ARG	CZ-NH1	13.13	1.50	1.33
1	B	983	ARG	CZ-NH1	13.11	1.50	1.33
1	A	1083	HIS	CE1-NE2	-12.99	1.02	1.32
1	C	1083	HIS	CE1-NE2	-12.99	1.02	1.32
1	B	1083	HIS	CE1-NE2	-12.98	1.02	1.32
1	B	651	ILE	CB-CG2	12.70	1.92	1.52
1	C	651	ILE	CB-CG2	12.69	1.92	1.52
1	A	651	ILE	CB-CG2	12.66	1.92	1.52
1	B	281	GLU	CG-CD	-12.05	1.33	1.51
1	A	281	GLU	CG-CD	-12.02	1.33	1.51
1	C	281	GLU	CG-CD	-12.02	1.33	1.51
1	A	947	LYS	CD-CE	-11.99	1.21	1.51
1	B	947	LYS	CD-CE	-11.99	1.21	1.51
1	C	947	LYS	CD-CE	-11.98	1.21	1.51
1	A	318	PHE	CG-CD2	11.96	1.56	1.38
1	B	318	PHE	CG-CD2	11.96	1.56	1.38
1	C	318	PHE	CG-CD2	11.95	1.56	1.38
1	A	983	ARG	CB-CG	-11.73	1.20	1.52
1	B	983	ARG	CB-CG	-11.73	1.20	1.52
1	C	983	ARG	CB-CG	-11.72	1.21	1.52
1	B	187	LYS	CE-NZ	-11.64	1.20	1.49
1	A	187	LYS	CE-NZ	-11.61	1.20	1.49
1	C	187	LYS	CE-NZ	-11.60	1.20	1.49
1	A	670	ILE	CB-CG2	11.24	1.87	1.52
1	B	670	ILE	CB-CG2	11.23	1.87	1.52
1	C	670	ILE	CB-CG2	11.21	1.87	1.52
1	A	42	VAL	CB-CG1	11.10	1.76	1.52
1	B	42	VAL	CB-CG1	11.09	1.76	1.52
1	C	42	VAL	CB-CG1	11.09	1.76	1.52
1	A	983	ARG	CD-NE	11.03	1.65	1.46
1	B	983	ARG	CD-NE	11.03	1.65	1.46
1	C	983	ARG	CD-NE	11.01	1.65	1.46
1	C	1002	GLN	CD-OE1	-10.99	0.99	1.24
1	B	1002	GLN	CD-OE1	-10.98	0.99	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1002	GLN	CD-OE1	-10.97	0.99	1.24
1	C	133	PHE	CB-CG	-10.93	1.32	1.51
1	B	133	PHE	CB-CG	-10.90	1.32	1.51
1	A	133	PHE	CB-CG	-10.89	1.32	1.51
1	B	872	GLN	CG-CD	-10.82	1.26	1.51
1	C	872	GLN	CG-CD	-10.81	1.26	1.51
1	A	872	GLN	CG-CD	-10.80	1.26	1.51
1	C	1002	GLN	CB-CG	-10.35	1.24	1.52
1	A	1002	GLN	CB-CG	-10.34	1.24	1.52
1	B	1002	GLN	CB-CG	-10.34	1.24	1.52
1	C	983	ARG	CZ-NH2	10.22	1.46	1.33
1	A	237	ARG	NE-CZ	-10.18	1.19	1.33
1	B	983	ARG	CZ-NH2	10.16	1.46	1.33
1	A	983	ARG	CZ-NH2	10.14	1.46	1.33
1	C	237	ARG	NE-CZ	-10.14	1.19	1.33
1	B	237	ARG	NE-CZ	-10.10	1.20	1.33
1	A	948	LEU	CA-CB	-9.70	1.31	1.53
1	C	948	LEU	CA-CB	-9.68	1.31	1.53
1	C	755	GLN	CD-OE1	9.67	1.45	1.24
1	B	948	LEU	CA-CB	-9.66	1.31	1.53
1	A	755	GLN	CD-OE1	9.65	1.45	1.24
1	B	755	GLN	CD-OE1	9.65	1.45	1.24
1	B	99	ASN	CG-OD1	-9.61	1.02	1.24
1	A	99	ASN	CG-OD1	-9.59	1.02	1.24
1	A	318	PHE	CE2-CZ	-9.56	1.19	1.37
1	B	318	PHE	CE2-CZ	-9.56	1.19	1.37
1	C	99	ASN	CG-OD1	-9.56	1.02	1.24
1	C	318	PHE	CE2-CZ	-9.53	1.19	1.37
1	A	954	GLN	CB-CG	-9.51	1.26	1.52
1	C	954	GLN	CB-CG	-9.51	1.26	1.52
1	B	954	GLN	CB-CG	-9.48	1.26	1.52
1	B	78	ARG	NE-CZ	-9.40	1.20	1.33
1	A	78	ARG	NE-CZ	-9.39	1.20	1.33
1	C	78	ARG	NE-CZ	-9.37	1.20	1.33
1	B	1050	MET	CB-CG	-9.33	1.21	1.51
1	C	1050	MET	CB-CG	-9.33	1.21	1.51
1	B	171	VAL	CB-CG2	-9.29	1.33	1.52
1	A	171	VAL	CB-CG2	-9.29	1.33	1.52
1	A	1050	MET	CB-CG	-9.29	1.21	1.51
1	C	171	VAL	CB-CG2	-9.28	1.33	1.52
1	B	206	LYS	CB-CG	-9.27	1.27	1.52
1	A	206	LYS	CB-CG	-9.24	1.27	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	206	LYS	CB-CG	-9.24	1.27	1.52
1	C	723	THR	CB-OG1	-9.24	1.24	1.43
1	B	723	THR	CB-OG1	-9.23	1.24	1.43
1	B	1129	VAL	CB-CG2	9.23	1.72	1.52
1	A	1129	VAL	CB-CG2	9.22	1.72	1.52
1	C	1129	VAL	CB-CG2	9.21	1.72	1.52
1	A	723	THR	CB-OG1	-9.21	1.24	1.43
1	C	41	LYS	CA-C	9.19	1.76	1.52
1	B	41	LYS	CA-C	9.18	1.76	1.52
1	A	41	LYS	CA-C	9.18	1.76	1.52
1	A	1113	GLN	CG-CD	9.15	1.72	1.51
1	C	1113	GLN	CG-CD	9.14	1.72	1.51
1	B	1113	GLN	CG-CD	9.13	1.72	1.51
1	C	608	VAL	CB-CG2	9.09	1.72	1.52
1	B	608	VAL	CB-CG2	9.09	1.72	1.52
1	A	608	VAL	CB-CG2	9.07	1.71	1.52
1	A	611	LEU	CG-CD2	9.03	1.85	1.51
1	C	611	LEU	CG-CD2	9.03	1.85	1.51
1	B	611	LEU	CG-CD2	9.02	1.85	1.51
1	B	905	ARG	CB-CG	-8.94	1.28	1.52
1	C	905	ARG	CB-CG	-8.92	1.28	1.52
1	A	905	ARG	CB-CG	-8.90	1.28	1.52
1	B	933	LYS	CD-CE	8.84	1.73	1.51
1	C	933	LYS	CD-CE	8.83	1.73	1.51
1	A	933	LYS	CD-CE	8.83	1.73	1.51
1	A	1086	LYS	CD-CE	8.82	1.73	1.51
1	B	1086	LYS	CD-CE	8.79	1.73	1.51
1	C	1086	LYS	CD-CE	8.79	1.73	1.51
1	C	1113	GLN	CB-CG	-8.79	1.28	1.52
1	B	1113	GLN	CB-CG	-8.79	1.28	1.52
1	A	187	LYS	CD-CE	8.77	1.73	1.51
1	A	1113	GLN	CB-CG	-8.77	1.28	1.52
1	B	187	LYS	CD-CE	8.77	1.73	1.51
1	C	187	LYS	CD-CE	8.76	1.73	1.51
1	A	1002	GLN	CD-NE2	-8.75	1.10	1.32
1	C	1002	GLN	CD-NE2	-8.73	1.11	1.32
1	B	1002	GLN	CD-NE2	-8.72	1.11	1.32
1	C	1014	ARG	CD-NE	-8.68	1.31	1.46
1	B	1014	ARG	CD-NE	-8.67	1.31	1.46
1	A	1014	ARG	CD-NE	-8.66	1.31	1.46
1	C	206	LYS	CD-CE	-8.65	1.29	1.51
1	B	206	LYS	CD-CE	-8.64	1.29	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	44	ARG	CB-CG	-8.63	1.29	1.52
1	C	44	ARG	CB-CG	-8.63	1.29	1.52
1	A	44	ARG	CB-CG	-8.61	1.29	1.52
1	A	206	LYS	CD-CE	-8.60	1.29	1.51
1	C	1073	LYS	CE-NZ	8.57	1.70	1.49
1	B	1073	LYS	CE-NZ	8.56	1.70	1.49
1	A	1073	LYS	CE-NZ	8.54	1.70	1.49
1	B	237	ARG	CZ-NH1	-8.53	1.22	1.33
1	A	237	ARG	CZ-NH1	-8.51	1.22	1.33
1	C	237	ARG	CZ-NH1	-8.50	1.22	1.33
1	A	318	PHE	CE1-CZ	-8.47	1.21	1.37
1	C	318	PHE	CE1-CZ	-8.46	1.21	1.37
1	B	318	PHE	CE1-CZ	-8.45	1.21	1.37
1	A	1071	GLN	CD-OE1	8.34	1.42	1.24
1	B	237	ARG	CB-CG	-8.32	1.30	1.52
1	B	1071	GLN	CD-OE1	8.30	1.42	1.24
1	C	1071	GLN	CD-OE1	8.30	1.42	1.24
1	A	237	ARG	CB-CG	-8.29	1.30	1.52
1	C	237	ARG	CB-CG	-8.29	1.30	1.52
1	C	52	GLN	CG-CD	-8.23	1.32	1.51
1	A	52	GLN	CG-CD	-8.23	1.32	1.51
1	B	52	GLN	CG-CD	-8.22	1.32	1.51
1	A	774	GLN	CB-CG	-8.20	1.30	1.52
1	C	774	GLN	CB-CG	-8.18	1.30	1.52
1	A	1083	HIS	CG-CD2	-8.17	1.21	1.35
1	C	1083	HIS	CG-CD2	-8.17	1.21	1.35
1	C	905	ARG	CD-NE	-8.17	1.32	1.46
1	B	774	GLN	CB-CG	-8.16	1.30	1.52
1	B	1083	HIS	CG-CD2	-8.16	1.21	1.35
1	B	905	ARG	CD-NE	-8.13	1.32	1.46
1	A	304	LYS	CA-C	-8.11	1.31	1.52
1	B	304	LYS	CA-C	-8.11	1.31	1.52
1	C	304	LYS	CA-C	-8.10	1.31	1.52
1	A	905	ARG	CD-NE	-8.10	1.32	1.46
1	B	1014	ARG	CB-CG	-8.05	1.30	1.52
1	A	1014	ARG	CB-CG	-8.04	1.30	1.52
1	A	925	ASN	CB-CG	-8.03	1.32	1.51
1	C	1014	ARG	CB-CG	-8.02	1.30	1.52
1	B	133	PHE	CE2-CZ	-8.00	1.22	1.37
1	C	925	ASN	CB-CG	-7.99	1.32	1.51
1	B	925	ASN	CB-CG	-7.98	1.32	1.51
1	C	811	LYS	CD-CE	-7.98	1.31	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	78	ARG	CD-NE	-7.97	1.32	1.46
1	A	811	LYS	CD-CE	-7.97	1.31	1.51
1	B	811	LYS	CD-CE	-7.97	1.31	1.51
1	A	133	PHE	CE2-CZ	-7.96	1.22	1.37
1	C	78	ARG	CD-NE	-7.96	1.32	1.46
1	B	78	ARG	CD-NE	-7.96	1.32	1.46
1	C	133	PHE	CE2-CZ	-7.96	1.22	1.37
1	C	246	ARG	CZ-NH1	7.94	1.43	1.33
1	A	901	GLN	CD-OE1	-7.90	1.06	1.24
1	A	246	ARG	CZ-NH1	7.90	1.43	1.33
1	C	901	GLN	CD-OE1	-7.88	1.06	1.24
1	B	901	GLN	CD-OE1	-7.86	1.06	1.24
1	A	153	MET	CG-SD	-7.86	1.60	1.81
1	B	153	MET	CG-SD	-7.84	1.60	1.81
1	B	246	ARG	CZ-NH1	7.83	1.43	1.33
1	C	153	MET	CG-SD	-7.82	1.60	1.81
1	A	933	LYS	CE-NZ	7.82	1.68	1.49
1	B	933	LYS	CE-NZ	7.82	1.68	1.49
1	C	933	LYS	CE-NZ	7.81	1.68	1.49
1	B	41	LYS	C-O	7.81	1.38	1.23
1	C	954	GLN	CD-OE1	-7.81	1.06	1.24
1	C	41	LYS	C-O	7.81	1.38	1.23
1	B	954	GLN	CD-OE1	-7.80	1.06	1.24
1	A	41	LYS	C-O	7.79	1.38	1.23
1	A	954	GLN	CD-OE1	-7.77	1.06	1.24
1	C	78	ARG	CZ-NH1	-7.65	1.23	1.33
1	A	78	ARG	CZ-NH1	-7.60	1.23	1.33
1	B	78	ARG	CZ-NH1	-7.58	1.23	1.33
1	B	177	MET	SD-CE	-7.50	1.35	1.77
1	C	177	MET	SD-CE	-7.49	1.35	1.77
1	A	177	MET	SD-CE	-7.49	1.35	1.77
1	C	237	ARG	CD-NE	-7.49	1.33	1.46
1	B	237	ARG	CD-NE	-7.49	1.33	1.46
1	A	237	ARG	CD-NE	-7.48	1.33	1.46
1	A	774	GLN	CD-OE1	-7.40	1.07	1.24
1	B	774	GLN	CD-OE1	-7.39	1.07	1.24
1	C	774	GLN	CD-OE1	-7.37	1.07	1.24
1	C	983	ARG	CA-C	-7.27	1.34	1.52
1	B	755	GLN	CD-NE2	7.24	1.50	1.32
1	A	983	ARG	CA-C	-7.23	1.34	1.52
1	B	983	ARG	CA-C	-7.23	1.34	1.52
1	A	755	GLN	CD-NE2	7.22	1.50	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	755	GLN	CD-NE2	7.22	1.50	1.32
1	A	113	LYS	CD-CE	-7.15	1.33	1.51
1	B	113	LYS	CD-CE	-7.15	1.33	1.51
1	C	113	LYS	CD-CE	-7.14	1.33	1.51
1	A	187	LYS	CB-CG	-7.13	1.33	1.52
1	B	171	VAL	CB-CG1	-7.13	1.37	1.52
1	A	171	VAL	CB-CG1	-7.12	1.37	1.52
1	C	187	LYS	CB-CG	-7.12	1.33	1.52
1	B	187	LYS	CB-CG	-7.11	1.33	1.52
1	C	171	VAL	CB-CG1	-7.08	1.38	1.52
1	B	651	ILE	CB-CG1	-7.06	1.34	1.54
1	A	651	ILE	CB-CG1	-7.04	1.34	1.54
1	C	651	ILE	CB-CG1	-7.03	1.34	1.54
1	C	63	THR	CB-CG2	7.02	1.75	1.52
1	B	63	THR	CB-CG2	7.02	1.75	1.52
1	A	63	THR	CB-CG2	7.01	1.75	1.52
1	B	44	ARG	NE-CZ	-6.87	1.24	1.33
1	C	44	ARG	NE-CZ	-6.87	1.24	1.33
1	B	278	LYS	CB-CG	-6.87	1.34	1.52
1	C	278	LYS	CB-CG	-6.87	1.34	1.52
1	A	278	LYS	CB-CG	-6.86	1.34	1.52
1	A	44	ARG	NE-CZ	-6.83	1.24	1.33
1	A	922	LEU	CG-CD2	-6.77	1.26	1.51
1	B	922	LEU	CG-CD2	-6.76	1.26	1.51
1	C	922	LEU	CG-CD2	-6.75	1.26	1.51
1	C	153	MET	SD-CE	-6.66	1.40	1.77
1	C	78	ARG	CG-CD	-6.65	1.35	1.51
1	A	78	ARG	CG-CD	-6.65	1.35	1.51
1	B	153	MET	SD-CE	-6.65	1.40	1.77
1	A	153	MET	SD-CE	-6.64	1.40	1.77
1	B	78	ARG	CG-CD	-6.64	1.35	1.51
1	C	923	ILE	CB-CG1	-6.47	1.35	1.54
1	A	923	ILE	CB-CG1	-6.46	1.35	1.54
1	B	923	ILE	CB-CG1	-6.44	1.36	1.54
1	C	329	PHE	C-N	6.42	1.46	1.34
1	C	948	LEU	CG-CD1	6.41	1.75	1.51
1	A	948	LEU	CG-CD1	6.40	1.75	1.51
1	B	948	LEU	CG-CD1	6.39	1.75	1.51
1	A	749	CYS	CB-SG	-6.38	1.71	1.82
1	B	63	THR	CB-OG1	-6.37	1.30	1.43
1	C	983	ARG	CG-CD	6.37	1.67	1.51
1	A	63	THR	CB-OG1	-6.37	1.30	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	983	ARG	CG-CD	6.37	1.67	1.51
1	C	63	THR	CB-OG1	-6.36	1.30	1.43
1	A	983	ARG	CG-CD	6.35	1.67	1.51
1	B	749	CYS	CB-SG	-6.35	1.71	1.82
1	C	749	CYS	CB-SG	-6.35	1.71	1.82
1	B	611	LEU	CG-CD1	-6.33	1.28	1.51
1	C	926	GLN	CD-OE1	-6.33	1.10	1.24
1	C	611	LEU	CG-CD1	-6.33	1.28	1.51
1	B	926	GLN	CD-OE1	-6.32	1.10	1.24
1	A	611	LEU	CG-CD1	-6.30	1.28	1.51
1	A	926	GLN	CD-OE1	-6.30	1.10	1.24
1	B	246	ARG	CG-CD	-6.24	1.36	1.51
1	A	246	ARG	CG-CD	-6.21	1.36	1.51
1	C	246	ARG	CG-CD	-6.21	1.36	1.51
1	A	52	GLN	CB-CG	-6.17	1.35	1.52
1	B	52	GLN	CB-CG	-6.16	1.35	1.52
1	C	52	GLN	CB-CG	-6.14	1.35	1.52
1	B	947	LYS	CG-CD	-6.12	1.31	1.52
1	C	947	LYS	CG-CD	-6.12	1.31	1.52
1	A	947	LYS	CG-CD	-6.11	1.31	1.52
1	A	651	ILE	CG1-CD1	6.10	1.92	1.50
1	B	651	ILE	CG1-CD1	6.10	1.92	1.50
1	A	187	LYS	CA-CB	-6.09	1.40	1.53
1	C	651	ILE	CG1-CD1	6.08	1.92	1.50
1	A	303	LEU	C-N	6.08	1.48	1.34
1	B	303	LEU	C-N	6.07	1.48	1.34
1	B	187	LYS	CA-CB	-6.07	1.40	1.53
1	C	187	LYS	CA-CB	-6.07	1.40	1.53
1	C	712	ILE	CB-CG1	-6.06	1.37	1.54
1	B	712	ILE	CB-CG1	-6.06	1.37	1.54
1	C	995	ARG	CB-CG	-6.06	1.36	1.52
1	A	995	ARG	CB-CG	-6.06	1.36	1.52
1	B	995	ARG	CB-CG	-6.05	1.36	1.52
1	C	303	LEU	C-N	6.04	1.48	1.34
1	A	712	ILE	CB-CG1	-6.02	1.37	1.54
1	C	305	SER	CB-OG	-5.99	1.34	1.42
1	B	305	SER	CB-OG	-5.97	1.34	1.42
1	C	1054	GLN	CD-NE2	5.96	1.47	1.32
1	A	305	SER	CB-OG	-5.95	1.34	1.42
1	A	1054	GLN	CD-NE2	5.92	1.47	1.32
1	B	1054	GLN	CD-NE2	5.92	1.47	1.32
1	A	743	CYS	CB-SG	-5.83	1.72	1.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	743	CYS	CB-SG	-5.81	1.72	1.81
1	B	743	CYS	CB-SG	-5.78	1.72	1.81
1	C	983	ARG	N-CA	5.69	1.57	1.46
1	A	983	ARG	N-CA	5.67	1.57	1.46
1	B	983	ARG	N-CA	5.67	1.57	1.46
1	A	1005	GLN	CD-NE2	-5.67	1.18	1.32
1	B	37	TYR	CE1-CZ	-5.66	1.31	1.38
1	C	37	TYR	CE1-CZ	-5.64	1.31	1.38
1	C	1005	GLN	CD-NE2	-5.64	1.18	1.32
1	A	37	TYR	CE1-CZ	-5.63	1.31	1.38
1	B	1005	GLN	CD-NE2	-5.63	1.18	1.32
1	A	304	LYS	CB-CG	-5.61	1.37	1.52
1	B	304	LYS	CB-CG	-5.57	1.37	1.52
1	C	304	LYS	CB-CG	-5.57	1.37	1.52
1	B	212	LEU	CG-CD2	-5.54	1.31	1.51
1	A	212	LEU	CG-CD2	-5.52	1.31	1.51
1	B	774	GLN	CD-NE2	-5.52	1.19	1.32
1	C	212	LEU	CG-CD2	-5.51	1.31	1.51
1	B	922	LEU	CB-CG	-5.51	1.36	1.52
1	C	774	GLN	CD-NE2	-5.51	1.19	1.32
1	A	774	GLN	CD-NE2	-5.50	1.19	1.32
1	A	1145	LEU	CG-CD2	5.50	1.72	1.51
1	A	922	LEU	CB-CG	-5.50	1.36	1.52
1	C	1145	LEU	CG-CD2	5.50	1.72	1.51
1	B	1145	LEU	CG-CD2	5.49	1.72	1.51
1	C	922	LEU	CB-CG	-5.48	1.36	1.52
1	A	947	LYS	CB-CG	-5.46	1.37	1.52
1	C	947	LYS	CB-CG	-5.44	1.37	1.52
1	B	947	LYS	CB-CG	-5.41	1.38	1.52
1	A	765	ARG	CG-CD	-5.39	1.38	1.51
1	C	765	ARG	CG-CD	-5.39	1.38	1.51
1	B	765	ARG	CG-CD	-5.38	1.38	1.51
1	B	40	ASP	C-N	5.37	1.46	1.34
1	A	40	ASP	C-N	5.33	1.46	1.34
1	A	948	LEU	CG-CD2	5.33	1.71	1.51
1	B	948	LEU	CG-CD2	5.33	1.71	1.51
1	C	40	ASP	C-N	5.32	1.46	1.34
1	C	948	LEU	CG-CD2	5.32	1.71	1.51
1	C	113	LYS	CE-NZ	-5.28	1.35	1.49
1	B	133	PHE	CE1-CZ	5.27	1.47	1.37
1	A	133	PHE	CE1-CZ	5.27	1.47	1.37
1	C	133	PHE	CE1-CZ	5.25	1.47	1.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	113	LYS	CE-NZ	-5.22	1.35	1.49
1	C	187	LYS	CA-C	5.22	1.66	1.52
1	B	113	LYS	CE-NZ	-5.21	1.36	1.49
1	B	187	LYS	CA-C	5.21	1.66	1.52
1	A	187	LYS	CA-C	5.19	1.66	1.52
1	C	134	GLN	CB-CG	-5.19	1.38	1.52
1	A	134	GLN	CB-CG	-5.16	1.38	1.52
1	B	134	GLN	CB-CG	-5.16	1.38	1.52
1	A	825	LYS	CD-CE	5.16	1.64	1.51
1	B	41	LYS	CA-CB	5.15	1.65	1.53
1	B	1102	TRP	CE2-CZ2	-5.14	1.31	1.39
1	A	1102	TRP	CE2-CZ2	-5.14	1.31	1.39
1	A	41	LYS	CA-CB	5.13	1.65	1.53
1	C	1102	TRP	CE2-CZ2	-5.13	1.31	1.39
1	B	293	LEU	C-N	5.12	1.45	1.34
1	C	41	LYS	CA-CB	5.12	1.65	1.53
1	B	825	LYS	CD-CE	5.11	1.64	1.51
1	C	825	LYS	CD-CE	5.11	1.64	1.51
1	C	293	LEU	C-N	5.10	1.45	1.34
1	A	293	LEU	C-N	5.09	1.45	1.34
1	C	231	ILE	C-N	5.08	1.42	1.33
1	B	197	ILE	CB-CG2	5.08	1.68	1.52
1	C	197	ILE	CB-CG2	5.06	1.68	1.52
1	A	197	ILE	CB-CG2	5.06	1.68	1.52
1	C	237	ARG	CG-CD	-5.06	1.39	1.51
1	A	231	ILE	C-N	5.05	1.42	1.33
1	B	231	ILE	C-N	5.05	1.42	1.33
1	A	237	ARG	CG-CD	-5.03	1.39	1.51
1	B	237	ARG	CG-CD	-5.02	1.39	1.51

All (923) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	983	ARG	NE-CZ-NH1	-125.67	57.47	120.30
1	C	983	ARG	NE-CZ-NH1	-125.58	57.51	120.30
1	B	983	ARG	NE-CZ-NH1	-125.46	57.57	120.30
1	B	983	ARG	CD-NE-CZ	-52.93	49.50	123.60
1	C	983	ARG	CD-NE-CZ	-52.92	49.51	123.60
1	A	983	ARG	CD-NE-CZ	-52.88	49.57	123.60
1	C	133	PHE	CB-CG-CD2	-41.09	92.04	120.80
1	B	133	PHE	CB-CG-CD2	-41.07	92.05	120.80
1	A	133	PHE	CB-CG-CD2	-41.05	92.07	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	983	ARG	NH1-CZ-NH2	-38.96	76.55	119.40
1	C	983	ARG	NH1-CZ-NH2	-38.95	76.55	119.40
1	B	983	ARG	NH1-CZ-NH2	-38.91	76.59	119.40
1	B	42	VAL	CA-CB-CG2	37.15	166.63	110.90
1	C	42	VAL	CA-CB-CG2	37.10	166.56	110.90
1	A	42	VAL	CA-CB-CG2	37.10	166.55	110.90
1	B	133	PHE	CB-CG-CD1	33.51	144.25	120.80
1	A	133	PHE	CB-CG-CD1	33.49	144.25	120.80
1	C	133	PHE	CB-CG-CD1	33.41	144.18	120.80
1	B	78	ARG	NE-CZ-NH1	-32.96	103.82	120.30
1	C	78	ARG	NE-CZ-NH1	-32.87	103.86	120.30
1	A	78	ARG	NE-CZ-NH1	-32.87	103.86	120.30
1	A	318	PHE	CB-CG-CD1	32.18	143.33	120.80
1	B	318	PHE	CB-CG-CD1	32.08	143.26	120.80
1	C	318	PHE	CB-CG-CD1	32.02	143.21	120.80
1	C	983	ARG	NE-CZ-NH2	-31.52	104.54	120.30
1	A	983	ARG	NE-CZ-NH2	-31.46	104.57	120.30
1	B	983	ARG	NE-CZ-NH2	-31.37	104.61	120.30
1	C	41	LYS	N-CA-CB	28.72	162.30	110.60
1	B	41	LYS	N-CA-CB	28.72	162.30	110.60
1	A	41	LYS	N-CA-CB	28.72	162.29	110.60
1	A	723	THR	OG1-CB-CG2	-27.84	45.96	110.00
1	B	723	THR	OG1-CB-CG2	-27.83	45.99	110.00
1	C	723	THR	OG1-CB-CG2	-27.82	46.01	110.00
1	A	1113	GLN	CG-CD-OE1	-27.06	67.49	121.60
1	C	1113	GLN	CG-CD-OE1	-27.05	67.49	121.60
1	B	1113	GLN	CG-CD-OE1	-27.04	67.53	121.60
1	C	983	ARG	CB-CG-CD	26.30	179.98	111.60
1	B	983	ARG	CB-CG-CD	26.30	179.97	111.60
1	A	983	ARG	CB-CG-CD	26.30	179.97	111.60
1	B	948	LEU	CA-CB-CG	24.64	171.98	115.30
1	A	42	VAL	CG1-CB-CG2	-24.64	71.48	110.90
1	A	948	LEU	CA-CB-CG	24.62	171.92	115.30
1	C	42	VAL	CG1-CB-CG2	-24.61	71.52	110.90
1	C	948	LEU	CA-CB-CG	24.61	171.89	115.30
1	B	42	VAL	CG1-CB-CG2	-24.59	71.55	110.90
1	A	153	MET	CG-SD-CE	24.49	139.39	100.20
1	B	153	MET	CG-SD-CE	24.48	139.36	100.20
1	C	153	MET	CG-SD-CE	24.47	139.36	100.20
1	B	246	ARG	NE-CZ-NH2	-24.39	108.11	120.30
1	C	246	ARG	NE-CZ-NH2	-24.30	108.15	120.30
1	A	246	ARG	NE-CZ-NH2	-24.29	108.16	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	600	PRO	N-CD-CG	-24.21	66.88	103.20
1	B	600	PRO	N-CD-CG	-24.21	66.88	103.20
1	C	600	PRO	N-CD-CG	-24.19	66.92	103.20
1	C	63	THR	OG1-CB-CG2	-23.81	55.24	110.00
1	A	63	THR	OG1-CB-CG2	-23.81	55.24	110.00
1	B	63	THR	OG1-CB-CG2	-23.81	55.25	110.00
1	B	231	ILE	CG1-CB-CG2	-23.24	60.26	111.40
1	C	231	ILE	CG1-CB-CG2	-23.23	60.30	111.40
1	A	231	ILE	CG1-CB-CG2	-23.22	60.32	111.40
1	A	861	LEU	CB-CG-CD1	23.20	150.44	111.00
1	B	861	LEU	CB-CG-CD1	23.18	150.40	111.00
1	C	861	LEU	CB-CG-CD1	23.16	150.37	111.00
1	C	947	LYS	CA-CB-CG	22.74	163.42	113.40
1	A	947	LYS	CA-CB-CG	22.72	163.39	113.40
1	B	947	LYS	CA-CB-CG	22.72	163.38	113.40
1	B	318	PHE	CD1-CG-CD2	-22.70	88.80	118.30
1	C	318	PHE	CD1-CG-CD2	-22.69	88.80	118.30
1	A	318	PHE	CD1-CG-CD2	-22.68	88.81	118.30
1	A	187	LYS	CB-CG-CD	21.92	168.59	111.60
1	C	187	LYS	CB-CG-CD	21.90	168.55	111.60
1	B	187	LYS	CB-CG-CD	21.89	168.50	111.60
1	A	318	PHE	CB-CG-CD2	-21.51	105.74	120.80
1	B	318	PHE	CB-CG-CD2	-21.51	105.74	120.80
1	C	318	PHE	CB-CG-CD2	-21.48	105.76	120.80
1	B	171	VAL	CA-CB-CG1	21.36	142.94	110.90
1	A	171	VAL	CA-CB-CG1	21.35	142.93	110.90
1	C	171	VAL	CA-CB-CG1	21.34	142.91	110.90
1	C	948	LEU	CB-CG-CD2	-21.33	74.74	111.00
1	B	948	LEU	CB-CG-CD2	-21.32	74.76	111.00
1	A	948	LEU	CB-CG-CD2	-21.32	74.76	111.00
1	A	212	LEU	CB-CG-CD1	21.27	147.16	111.00
1	C	212	LEU	CB-CG-CD1	21.26	147.14	111.00
1	B	212	LEU	CB-CG-CD1	21.25	147.13	111.00
1	A	63	THR	CA-CB-OG1	21.23	153.58	109.00
1	B	63	THR	CA-CB-OG1	21.21	153.54	109.00
1	C	63	THR	CA-CB-OG1	21.21	153.54	109.00
1	A	774	GLN	CG-CD-NE2	-20.94	66.44	116.70
1	B	774	GLN	CG-CD-NE2	-20.94	66.45	116.70
1	C	774	GLN	CG-CD-NE2	-20.92	66.49	116.70
1	B	861	LEU	CB-CG-CD2	-20.91	75.45	111.00
1	C	861	LEU	CB-CG-CD2	-20.91	75.45	111.00
1	A	922	LEU	CB-CG-CD2	20.89	146.51	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	861	LEU	CB-CG-CD2	-20.89	75.49	111.00
1	B	922	LEU	CB-CG-CD2	20.87	146.49	111.00
1	C	922	LEU	CB-CG-CD2	20.84	146.42	111.00
1	C	233	ILE	CG1-CB-CG2	-20.16	67.05	111.40
1	B	233	ILE	CG1-CB-CG2	-20.16	67.06	111.40
1	A	233	ILE	CG1-CB-CG2	-20.15	67.08	111.40
1	B	767	LEU	CB-CG-CD1	20.10	145.16	111.00
1	A	767	LEU	CB-CG-CD1	20.06	145.10	111.00
1	C	767	LEU	CB-CG-CD1	20.05	145.09	111.00
1	A	959	LEU	CA-CB-CG	19.85	160.96	115.30
1	B	959	LEU	CA-CB-CG	19.84	160.92	115.30
1	C	959	LEU	CA-CB-CG	19.82	160.89	115.30
1	A	651	ILE	CA-CB-CG1	19.71	148.44	111.00
1	C	651	ILE	CA-CB-CG1	19.70	148.43	111.00
1	B	651	ILE	CA-CB-CG1	19.70	148.42	111.00
1	B	608	VAL	CG1-CB-CG2	-18.73	80.94	110.90
1	A	608	VAL	CG1-CB-CG2	-18.71	80.97	110.90
1	C	608	VAL	CG1-CB-CG2	-18.71	80.97	110.90
1	B	651	ILE	CG1-CB-CG2	-18.70	70.25	111.40
1	C	651	ILE	CG1-CB-CG2	-18.70	70.25	111.40
1	A	651	ILE	CG1-CB-CG2	-18.70	70.27	111.40
1	B	1129	VAL	CG1-CB-CG2	-18.57	81.18	110.90
1	A	1129	VAL	CG1-CB-CG2	-18.57	81.19	110.90
1	C	1129	VAL	CG1-CB-CG2	-18.55	81.22	110.90
1	A	922	LEU	CA-CB-CG	18.05	156.81	115.30
1	B	922	LEU	CA-CB-CG	18.03	156.78	115.30
1	C	922	LEU	CA-CB-CG	18.03	156.76	115.30
1	B	947	LYS	N-CA-CB	-18.00	78.19	110.60
1	A	947	LYS	N-CA-CB	-18.00	78.20	110.60
1	C	947	LYS	N-CA-CB	-18.00	78.21	110.60
1	A	52	GLN	CA-CB-CG	17.87	152.71	113.40
1	B	52	GLN	CA-CB-CG	17.86	152.69	113.40
1	C	52	GLN	CA-CB-CG	17.85	152.67	113.40
1	A	304	LYS	CB-CG-CD	17.56	157.26	111.60
1	B	304	LYS	CB-CG-CD	17.55	157.23	111.60
1	C	304	LYS	CB-CG-CD	17.53	157.18	111.60
1	B	767	LEU	CB-CG-CD2	-17.19	81.78	111.00
1	C	767	LEU	CB-CG-CD2	-17.18	81.79	111.00
1	A	767	LEU	CB-CG-CD2	-17.18	81.79	111.00
1	A	1145	LEU	CB-CG-CD2	-17.02	82.06	111.00
1	B	1145	LEU	CB-CG-CD2	-17.01	82.08	111.00
1	C	1145	LEU	CB-CG-CD2	-17.00	82.10	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	650	LEU	CB-CG-CD2	-16.51	82.94	111.00
1	B	650	LEU	CB-CG-CD2	-16.50	82.94	111.00
1	A	650	LEU	CB-CG-CD2	-16.50	82.96	111.00
1	A	187	LYS	CG-CD-CE	-16.40	62.69	111.90
1	B	187	LYS	CG-CD-CE	-16.40	62.70	111.90
1	C	187	LYS	CG-CD-CE	-16.39	62.73	111.90
1	B	790	LYS	CD-CE-NZ	16.31	149.21	111.70
1	A	790	LYS	CD-CE-NZ	16.29	149.17	111.70
1	C	790	LYS	CD-CE-NZ	16.28	149.15	111.70
1	B	1014	ARG	CG-CD-NE	16.24	145.91	111.80
1	C	1014	ARG	CG-CD-NE	16.24	145.90	111.80
1	A	1014	ARG	CG-CD-NE	16.24	145.90	111.80
1	B	177	MET	CG-SD-CE	16.22	126.14	100.20
1	A	231	ILE	CA-CB-CG1	16.19	141.75	111.00
1	C	177	MET	CG-SD-CE	16.17	126.07	100.20
1	C	231	ILE	CA-CB-CG1	16.17	141.72	111.00
1	A	177	MET	CG-SD-CE	16.16	126.06	100.20
1	B	231	ILE	CA-CB-CG1	16.12	141.64	111.00
1	C	246	ARG	NE-CZ-NH1	15.84	128.22	120.30
1	B	905	ARG	NE-CZ-NH2	-15.84	112.38	120.30
1	A	905	ARG	NE-CZ-NH2	-15.81	112.39	120.30
1	C	905	ARG	NE-CZ-NH2	-15.80	112.40	120.30
1	A	246	ARG	NE-CZ-NH1	15.74	128.17	120.30
1	B	246	ARG	NE-CZ-NH1	15.74	128.17	120.30
1	A	44	ARG	NE-CZ-NH2	-15.72	112.44	120.30
1	C	44	ARG	NE-CZ-NH2	-15.71	112.44	120.30
1	B	44	ARG	NE-CZ-NH2	-15.67	112.46	120.30
1	C	726	ILE	CG1-CB-CG2	-15.64	76.98	111.40
1	C	197	ILE	CG1-CB-CG2	-15.62	77.03	111.40
1	A	197	ILE	CG1-CB-CG2	-15.62	77.04	111.40
1	A	726	ILE	CG1-CB-CG2	-15.62	77.04	111.40
1	B	197	ILE	CG1-CB-CG2	-15.62	77.05	111.40
1	B	726	ILE	CG1-CB-CG2	-15.61	77.05	111.40
1	B	811	LYS	CD-CE-NZ	15.38	147.07	111.70
1	A	811	LYS	CD-CE-NZ	15.37	147.05	111.70
1	C	811	LYS	CD-CE-NZ	15.36	147.03	111.70
1	B	1114	ILE	CG1-CB-CG2	-15.09	78.21	111.40
1	C	1114	ILE	CG1-CB-CG2	-15.08	78.22	111.40
1	A	1114	ILE	CG1-CB-CG2	-15.07	78.23	111.40
1	C	237	ARG	NH1-CZ-NH2	-15.04	102.85	119.40
1	A	237	ARG	NH1-CZ-NH2	-15.04	102.86	119.40
1	B	237	ARG	NH1-CZ-NH2	-14.98	102.92	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	898	PHE	CB-CG-CD1	14.84	131.19	120.80
1	B	237	ARG	CD-NE-CZ	14.82	144.35	123.60
1	C	237	ARG	CD-NE-CZ	14.82	144.35	123.60
1	A	237	ARG	CD-NE-CZ	14.81	144.34	123.60
1	C	898	PHE	CB-CG-CD1	14.81	131.16	120.80
1	B	231	ILE	CA-CB-CG2	-14.76	81.38	110.90
1	B	898	PHE	CB-CG-CD1	14.75	131.13	120.80
1	C	231	ILE	CA-CB-CG2	-14.74	81.42	110.90
1	A	231	ILE	CA-CB-CG2	-14.73	81.44	110.90
1	A	898	PHE	CB-CG-CD2	-14.71	110.50	120.80
1	B	898	PHE	CB-CG-CD2	-14.71	110.50	120.80
1	C	898	PHE	CB-CG-CD2	-14.69	110.52	120.80
1	B	651	ILE	CB-CG1-CD1	-14.40	73.59	113.90
1	A	651	ILE	CB-CG1-CD1	-14.39	73.61	113.90
1	C	651	ILE	CB-CG1-CD1	-14.38	73.63	113.90
1	B	41	LYS	CB-CA-C	-14.32	81.77	110.40
1	A	41	LYS	CB-CA-C	-14.31	81.78	110.40
1	C	41	LYS	CB-CA-C	-14.30	81.79	110.40
1	B	948	LEU	N-CA-CB	-14.20	81.99	110.40
1	C	948	LEU	N-CA-CB	-14.20	82.01	110.40
1	A	948	LEU	N-CA-CB	-14.18	82.05	110.40
1	B	1002	GLN	CA-CB-CG	14.16	144.56	113.40
1	A	1002	GLN	CA-CB-CG	14.16	144.54	113.40
1	C	1002	GLN	CA-CB-CG	14.13	144.50	113.40
1	C	237	ARG	NE-CZ-NH2	-14.10	113.25	120.30
1	B	237	ARG	NE-CZ-NH2	-14.08	113.26	120.30
1	A	237	ARG	NE-CZ-NH2	-14.03	113.29	120.30
1	B	113	LYS	CD-CE-NZ	13.94	143.75	111.70
1	C	113	LYS	CD-CE-NZ	13.93	143.75	111.70
1	B	611	LEU	CB-CG-CD2	-13.93	87.33	111.00
1	C	611	LEU	CB-CG-CD2	-13.92	87.33	111.00
1	A	113	LYS	CD-CE-NZ	13.92	143.71	111.70
1	A	611	LEU	CB-CG-CD2	-13.91	87.35	111.00
1	C	600	PRO	CA-N-CD	-13.91	92.03	111.50
1	C	767	LEU	CA-CB-CG	13.91	147.28	115.30
1	A	600	PRO	CA-N-CD	-13.89	92.05	111.50
1	A	767	LEU	CA-CB-CG	13.89	147.25	115.30
1	B	767	LEU	CA-CB-CG	13.89	147.25	115.30
1	B	600	PRO	CA-N-CD	-13.89	92.06	111.50
1	B	1145	LEU	CB-CG-CD1	13.71	134.32	111.00
1	C	1145	LEU	CB-CG-CD1	13.68	134.26	111.00
1	A	1145	LEU	CB-CG-CD1	13.68	134.25	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	983	ARG	CA-CB-CG	13.63	143.39	113.40
1	A	983	ARG	CA-CB-CG	13.62	143.38	113.40
1	C	983	ARG	CA-CB-CG	13.62	143.38	113.40
1	A	926	GLN	CA-CB-CG	13.51	143.11	113.40
1	C	926	GLN	CA-CB-CG	13.47	143.04	113.40
1	B	926	GLN	CA-CB-CG	13.47	143.03	113.40
1	C	1129	VAL	CA-CB-CG1	13.44	131.06	110.90
1	A	1129	VAL	CA-CB-CG1	13.43	131.05	110.90
1	B	1129	VAL	CA-CB-CG1	13.43	131.05	110.90
1	A	723	THR	CA-CB-CG2	-13.15	93.99	112.40
1	B	723	THR	CA-CB-CG2	-13.13	94.01	112.40
1	C	723	THR	CA-CB-CG2	-13.13	94.02	112.40
1	B	901	GLN	CG-CD-OE1	13.11	147.82	121.60
1	C	901	GLN	CG-CD-OE1	13.11	147.82	121.60
1	A	901	GLN	CG-CD-OE1	13.09	147.79	121.60
1	B	1012	LEU	CA-CB-CG	12.97	145.14	115.30
1	C	1012	LEU	CA-CB-CG	12.96	145.12	115.30
1	A	1012	LEU	CA-CB-CG	12.96	145.11	115.30
1	C	133	PHE	CD1-CG-CD2	-12.53	102.02	118.30
1	A	133	PHE	CD1-CG-CD2	-12.51	102.04	118.30
1	B	133	PHE	CD1-CG-CD2	-12.51	102.04	118.30
1	A	811	LYS	CG-CD-CE	12.47	149.31	111.90
1	B	811	LYS	CG-CD-CE	12.46	149.29	111.90
1	C	811	LYS	CG-CD-CE	12.45	149.25	111.90
1	A	901	GLN	CG-CD-NE2	-12.39	86.97	116.70
1	C	901	GLN	CG-CD-NE2	-12.38	87.00	116.70
1	B	901	GLN	CG-CD-NE2	-12.37	87.02	116.70
1	C	650	LEU	CB-CG-CD1	12.24	131.81	111.00
1	B	650	LEU	CB-CG-CD1	12.24	131.80	111.00
1	A	650	LEU	CB-CG-CD1	12.23	131.79	111.00
1	A	1109	PHE	CB-CG-CD2	-12.08	112.35	120.80
1	B	1109	PHE	CB-CG-CD2	-12.07	112.35	120.80
1	C	1109	PHE	CB-CG-CD2	-12.05	112.36	120.80
1	B	1086	LYS	CD-CE-NZ	12.04	139.40	111.70
1	C	1086	LYS	CD-CE-NZ	12.04	139.39	111.70
1	B	1071	GLN	CG-CD-NE2	-12.03	87.84	116.70
1	A	1086	LYS	CD-CE-NZ	12.02	139.35	111.70
1	A	1071	GLN	CG-CD-NE2	-11.99	87.91	116.70
1	C	1071	GLN	CG-CD-NE2	-11.99	87.91	116.70
1	A	1014	ARG	NE-CZ-NH2	-11.88	114.36	120.30
1	B	1014	ARG	NE-CZ-NH2	-11.82	114.39	120.30
1	C	1014	ARG	NE-CZ-NH2	-11.82	114.39	120.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	312	ILE	CG1-CB-CG2	-11.59	85.90	111.40
1	B	312	ILE	CG1-CB-CG2	-11.59	85.90	111.40
1	C	312	ILE	CG1-CB-CG2	-11.57	85.95	111.40
1	C	774	GLN	CG-CD-OE1	11.44	144.47	121.60
1	A	774	GLN	CG-CD-OE1	11.43	144.45	121.60
1	B	774	GLN	CG-CD-OE1	11.42	144.44	121.60
1	B	1012	LEU	CB-CG-CD1	11.32	130.24	111.00
1	C	1050	MET	CB-CG-SD	11.29	146.28	112.40
1	A	611	LEU	CD1-CG-CD2	-11.29	76.63	110.50
1	A	1012	LEU	CB-CG-CD1	11.29	130.19	111.00
1	C	1012	LEU	CB-CG-CD1	11.29	130.19	111.00
1	A	1050	MET	CB-CG-SD	11.28	146.25	112.40
1	B	611	LEU	CD1-CG-CD2	-11.28	76.66	110.50
1	B	1050	MET	CB-CG-SD	11.28	146.23	112.40
1	C	611	LEU	CD1-CG-CD2	-11.28	76.67	110.50
1	C	1122	VAL	CG1-CB-CG2	-11.19	93.00	110.90
1	A	1122	VAL	CG1-CB-CG2	-11.18	93.01	110.90
1	B	1122	VAL	CG1-CB-CG2	-11.17	93.02	110.90
1	C	774	GLN	CB-CG-CD	11.06	140.35	111.60
1	A	774	GLN	CB-CG-CD	11.05	140.34	111.60
1	B	774	GLN	CB-CG-CD	11.05	140.33	111.60
1	B	195	LYS	CB-CG-CD	10.99	140.19	111.60
1	A	195	LYS	CB-CG-CD	10.99	140.17	111.60
1	B	237	ARG	CB-CG-CD	10.99	140.17	111.60
1	A	237	ARG	CB-CG-CD	10.98	140.15	111.60
1	C	237	ARG	CB-CG-CD	10.97	140.12	111.60
1	C	195	LYS	CB-CG-CD	10.96	140.08	111.60
1	C	723	THR	CA-CB-OG1	10.91	131.90	109.00
1	A	246	ARG	CD-NE-CZ	10.90	138.86	123.60
1	B	723	THR	CA-CB-OG1	10.89	131.87	109.00
1	B	246	ARG	CD-NE-CZ	10.88	138.84	123.60
1	C	246	ARG	CD-NE-CZ	10.87	138.82	123.60
1	A	723	THR	CA-CB-OG1	10.86	131.81	109.00
1	C	84	LEU	CB-CG-CD1	10.77	129.30	111.00
1	B	84	LEU	CB-CG-CD1	10.76	129.30	111.00
1	A	1050	MET	CA-CB-CG	-10.75	95.03	113.30
1	B	1050	MET	CA-CB-CG	-10.74	95.05	113.30
1	A	84	LEU	CB-CG-CD1	10.73	129.25	111.00
1	C	1050	MET	CA-CB-CG	-10.73	95.06	113.30
1	B	197	ILE	CA-CB-CG1	10.61	131.15	111.00
1	A	197	ILE	CA-CB-CG1	10.60	131.14	111.00
1	C	197	ILE	CA-CB-CG1	10.60	131.15	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	948	LEU	CB-CA-C	10.59	130.31	110.20
1	C	42	VAL	CA-CB-CG1	-10.57	95.04	110.90
1	A	948	LEU	CB-CA-C	10.57	130.28	110.20
1	B	948	LEU	CB-CA-C	10.56	130.26	110.20
1	A	42	VAL	CA-CB-CG1	-10.55	95.08	110.90
1	B	42	VAL	CA-CB-CG1	-10.54	95.09	110.90
1	A	1109	PHE	CB-CG-CD1	10.41	128.09	120.80
1	A	41	LYS	CG-CD-CE	-10.41	80.67	111.90
1	B	41	LYS	CG-CD-CE	-10.40	80.69	111.90
1	C	41	LYS	CG-CD-CE	-10.40	80.69	111.90
1	A	78	ARG	CB-CG-CD	-10.40	84.57	111.60
1	C	78	ARG	CB-CG-CD	-10.40	84.57	111.60
1	B	78	ARG	CB-CG-CD	-10.39	84.58	111.60
1	C	1109	PHE	CB-CG-CD1	10.35	128.04	120.80
1	A	600	PRO	CA-CB-CG	-10.31	84.40	104.00
1	B	1109	PHE	CB-CG-CD1	10.31	128.02	120.80
1	B	600	PRO	CA-CB-CG	-10.30	84.43	104.00
1	C	600	PRO	CA-CB-CG	-10.29	84.45	104.00
1	C	206	LYS	CB-CG-CD	10.23	138.20	111.60
1	B	206	LYS	CB-CG-CD	10.21	138.16	111.60
1	A	206	LYS	CB-CG-CD	10.20	138.13	111.60
1	B	187	LYS	CA-CB-CG	10.20	135.84	113.40
1	A	187	LYS	CA-CB-CG	10.20	135.83	113.40
1	C	187	LYS	CA-CB-CG	10.18	135.81	113.40
1	B	765	ARG	CD-NE-CZ	-10.17	109.36	123.60
1	A	765	ARG	CD-NE-CZ	-10.16	109.38	123.60
1	C	765	ARG	CD-NE-CZ	-10.16	109.37	123.60
1	A	922	LEU	CB-CG-CD1	-10.09	93.85	111.00
1	B	922	LEU	CB-CG-CD1	-10.07	93.88	111.00
1	C	922	LEU	CB-CG-CD1	-10.06	93.89	111.00
1	B	611	LEU	CB-CG-CD1	9.96	127.93	111.00
1	B	947	LYS	CB-CA-C	9.96	130.31	110.40
1	A	611	LEU	CB-CG-CD1	9.95	127.91	111.00
1	A	947	LYS	CB-CA-C	9.94	130.28	110.40
1	C	611	LEU	CB-CG-CD1	9.94	127.90	111.00
1	C	947	LYS	CB-CA-C	9.94	130.29	110.40
1	B	206	LYS	CA-CB-CG	9.93	135.24	113.40
1	C	206	LYS	CA-CB-CG	9.93	135.24	113.40
1	A	305	SER	CA-CB-OG	9.90	137.94	111.20
1	C	305	SER	CA-CB-OG	9.90	137.92	111.20
1	A	56	LEU	CA-CB-CG	9.89	138.06	115.30
1	A	206	LYS	CA-CB-CG	9.89	135.17	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	56	LEU	CA-CB-CG	9.89	138.06	115.30
1	B	305	SER	CA-CB-OG	9.89	137.91	111.20
1	B	1083	HIS	ND1-CG-CD2	-9.89	92.15	106.00
1	A	1083	HIS	ND1-CG-CD2	-9.89	92.16	106.00
1	B	765	ARG	CG-CD-NE	9.89	132.56	111.80
1	A	40	ASP	C-N-CA	-9.88	96.99	121.70
1	A	765	ARG	CG-CD-NE	9.88	132.56	111.80
1	B	40	ASP	C-N-CA	-9.88	97.00	121.70
1	C	765	ARG	CG-CD-NE	9.87	132.53	111.80
1	C	1083	HIS	ND1-CG-CD2	-9.87	92.18	106.00
1	C	40	ASP	C-N-CA	-9.87	97.02	121.70
1	C	56	LEU	CA-CB-CG	9.87	138.00	115.30
1	B	318	PHE	N-CA-CB	9.86	128.35	110.60
1	A	318	PHE	N-CA-CB	9.86	128.34	110.60
1	C	318	PHE	N-CA-CB	9.86	128.34	110.60
1	B	266	TYR	CB-CG-CD2	-9.83	115.10	121.00
1	A	266	TYR	CB-CG-CD2	-9.82	115.11	121.00
1	C	44	ARG	NH1-CZ-NH2	-9.80	108.62	119.40
1	A	44	ARG	NH1-CZ-NH2	-9.80	108.62	119.40
1	B	44	ARG	NH1-CZ-NH2	-9.79	108.64	119.40
1	A	171	VAL	CG1-CB-CG2	-9.77	95.28	110.90
1	C	266	TYR	CB-CG-CD2	-9.75	115.15	121.00
1	B	171	VAL	CG1-CB-CG2	-9.74	95.31	110.90
1	C	171	VAL	CG1-CB-CG2	-9.74	95.32	110.90
1	C	901	GLN	OE1-CD-NE2	-9.59	99.85	121.90
1	A	901	GLN	OE1-CD-NE2	-9.56	99.91	121.90
1	C	796	ASP	CB-CG-OD2	-9.56	109.70	118.30
1	B	901	GLN	OE1-CD-NE2	-9.55	99.93	121.90
1	C	727	LEU	CB-CG-CD2	9.55	127.23	111.00
1	A	1083	HIS	CG-ND1-CE1	-9.54	93.30	105.70
1	A	727	LEU	CB-CG-CD2	9.53	127.19	111.00
1	B	727	LEU	CB-CG-CD2	9.51	127.17	111.00
1	B	796	ASP	CB-CG-OD2	-9.50	109.75	118.30
1	C	1083	HIS	CG-ND1-CE1	-9.50	93.35	105.70
1	C	278	LYS	CB-CG-CD	9.49	136.28	111.60
1	B	278	LYS	CB-CG-CD	9.48	136.26	111.60
1	B	1083	HIS	CG-ND1-CE1	-9.48	93.37	105.70
1	A	231	ILE	CB-CG1-CD1	9.47	140.43	113.90
1	A	796	ASP	CB-CG-OD2	-9.47	109.78	118.30
1	A	278	LYS	CB-CG-CD	9.47	136.21	111.60
1	B	231	ILE	CB-CG1-CD1	9.45	140.37	113.90
1	C	231	ILE	CB-CG1-CD1	9.46	140.38	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	901	GLN	CA-CB-CG	9.38	134.03	113.40
1	A	901	GLN	CA-CB-CG	9.37	134.02	113.40
1	B	901	GLN	CA-CB-CG	9.36	134.00	113.40
1	A	947	LYS	CD-CE-NZ	-9.31	90.29	111.70
1	C	947	LYS	CD-CE-NZ	-9.30	90.30	111.70
1	B	947	LYS	CD-CE-NZ	-9.30	90.31	111.70
1	B	869	MET	CG-SD-CE	9.24	114.98	100.20
1	A	869	MET	CG-SD-CE	9.21	114.94	100.20
1	C	246	ARG	CG-CD-NE	9.21	131.13	111.80
1	C	869	MET	CG-SD-CE	9.21	114.93	100.20
1	A	246	ARG	CG-CD-NE	9.20	131.11	111.80
1	B	246	ARG	CG-CD-NE	9.19	131.11	111.80
1	B	78	ARG	CG-CD-NE	9.18	131.08	111.80
1	C	78	ARG	CG-CD-NE	9.18	131.08	111.80
1	A	78	ARG	CG-CD-NE	9.18	131.07	111.80
1	A	983	ARG	CG-CD-NE	9.14	130.99	111.80
1	B	983	ARG	CG-CD-NE	9.13	130.97	111.80
1	C	905	ARG	CG-CD-NE	9.12	130.96	111.80
1	B	905	ARG	CG-CD-NE	9.12	130.96	111.80
1	A	905	ARG	CG-CD-NE	9.12	130.95	111.80
1	C	983	ARG	CG-CD-NE	9.12	130.94	111.80
1	A	608	VAL	CA-CB-CG2	-9.04	97.33	110.90
1	C	608	VAL	CA-CB-CG2	-9.04	97.34	110.90
1	B	608	VAL	CA-CB-CG2	-9.03	97.35	110.90
1	C	1002	GLN	CG-CD-NE2	-8.96	95.20	116.70
1	B	1002	GLN	CG-CD-NE2	-8.95	95.21	116.70
1	C	811	LYS	CA-CB-CG	8.93	133.05	113.40
1	B	811	LYS	CA-CB-CG	8.93	133.04	113.40
1	A	1002	GLN	CG-CD-NE2	-8.93	95.28	116.70
1	B	925	ASN	CB-CG-ND2	-8.93	95.28	116.70
1	A	811	LYS	CA-CB-CG	8.92	133.03	113.40
1	C	925	ASN	CB-CG-ND2	-8.92	95.29	116.70
1	A	925	ASN	CB-CG-ND2	-8.91	95.31	116.70
1	A	767	LEU	CB-CA-C	8.89	127.09	110.20
1	C	767	LEU	CB-CA-C	8.89	127.09	110.20
1	B	1038	LYS	CD-CE-NZ	8.87	132.10	111.70
1	C	1038	LYS	CD-CE-NZ	8.87	132.09	111.70
1	A	1038	LYS	CD-CE-NZ	8.86	132.07	111.70
1	B	767	LEU	CB-CA-C	8.86	127.03	110.20
1	C	195	LYS	CA-CB-CG	8.84	132.84	113.40
1	A	195	LYS	CA-CB-CG	8.83	132.83	113.40
1	B	195	LYS	CA-CB-CG	8.83	132.83	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	861	LEU	CD1-CG-CD2	-8.80	84.10	110.50
1	A	861	LEU	CD1-CG-CD2	-8.79	84.12	110.50
1	B	861	LEU	CD1-CG-CD2	-8.79	84.12	110.50
1	B	305	SER	N-CA-CB	8.68	123.51	110.50
1	A	305	SER	N-CA-CB	8.67	123.51	110.50
1	C	305	SER	N-CA-CB	8.66	123.49	110.50
1	A	52	GLN	CG-CD-NE2	-8.62	96.01	116.70
1	B	318	PHE	CA-CB-CG	8.60	134.55	113.90
1	C	318	PHE	CA-CB-CG	8.60	134.55	113.90
1	A	318	PHE	CA-CB-CG	8.60	134.53	113.90
1	C	52	GLN	CG-CD-NE2	-8.59	96.09	116.70
1	B	52	GLN	CG-CD-NE2	-8.59	96.09	116.70
1	C	1113	GLN	CB-CA-C	8.59	127.57	110.40
1	A	1113	GLN	CB-CA-C	8.57	127.54	110.40
1	B	1113	GLN	CB-CA-C	8.57	127.54	110.40
1	B	1129	VAL	CA-CB-CG2	-8.49	98.17	110.90
1	A	1129	VAL	CA-CB-CG2	-8.48	98.17	110.90
1	C	1129	VAL	CA-CB-CG2	-8.46	98.21	110.90
1	A	99	ASN	CB-CG-ND2	-8.46	96.40	116.70
1	B	99	ASN	CB-CG-ND2	-8.45	96.42	116.70
1	C	99	ASN	CB-CG-ND2	-8.45	96.42	116.70
1	A	719	THR	OG1-CB-CG2	-8.43	90.62	110.00
1	C	712	ILE	CB-CG1-CD1	8.41	137.46	113.90
1	C	719	THR	OG1-CB-CG2	-8.41	90.66	110.00
1	B	719	THR	OG1-CB-CG2	-8.40	90.67	110.00
1	A	712	ILE	CB-CG1-CD1	8.39	137.40	113.90
1	B	712	ILE	CB-CG1-CD1	8.39	137.39	113.90
1	B	611	LEU	CA-CB-CG	-8.38	96.02	115.30
1	A	611	LEU	CA-CB-CG	-8.37	96.05	115.30
1	C	44	ARG	CB-CG-CD	8.37	133.37	111.60
1	C	611	LEU	CA-CB-CG	-8.37	96.05	115.30
1	A	44	ARG	CB-CG-CD	8.35	133.31	111.60
1	B	44	ARG	CB-CG-CD	8.35	133.31	111.60
1	C	942	PRO	CA-N-CD	-8.20	100.03	111.50
1	A	942	PRO	CA-N-CD	-8.18	100.05	111.50
1	B	651	ILE	CA-CB-CG2	-8.18	94.55	110.90
1	B	942	PRO	CA-N-CD	-8.18	100.05	111.50
1	A	651	ILE	CA-CB-CG2	-8.17	94.55	110.90
1	C	651	ILE	CA-CB-CG2	-8.17	94.56	110.90
1	C	296	LEU	CB-CG-CD2	-8.12	97.19	111.00
1	A	1049	LEU	CB-CG-CD1	8.11	124.78	111.00
1	A	296	LEU	CB-CG-CD2	-8.10	97.22	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1049	LEU	CB-CG-CD1	8.10	124.77	111.00
1	C	1049	LEU	CB-CG-CD1	8.10	124.77	111.00
1	B	296	LEU	CB-CG-CD2	-8.09	97.25	111.00
1	B	187	LYS	CB-CA-C	-8.09	94.22	110.40
1	C	187	LYS	CB-CA-C	-8.08	94.23	110.40
1	B	41	LYS	O-C-N	-8.07	109.78	122.70
1	A	41	LYS	O-C-N	-8.07	109.79	122.70
1	A	187	LYS	CB-CA-C	-8.07	94.26	110.40
1	C	41	LYS	O-C-N	-8.06	109.81	122.70
1	A	872	GLN	CB-CG-CD	8.04	132.50	111.60
1	C	872	GLN	CB-CG-CD	8.02	132.46	111.60
1	B	872	GLN	CB-CG-CD	8.02	132.44	111.60
1	A	947	LYS	CB-CG-CD	7.97	132.32	111.60
1	B	947	LYS	CB-CG-CD	7.96	132.30	111.60
1	C	127	VAL	CG1-CB-CG2	-7.95	98.18	110.90
1	C	947	LYS	CB-CG-CD	7.95	132.27	111.60
1	B	861	LEU	CA-CB-CG	7.93	133.55	115.30
1	A	127	VAL	CG1-CB-CG2	-7.93	98.21	110.90
1	B	127	VAL	CG1-CB-CG2	-7.93	98.22	110.90
1	C	861	LEU	CA-CB-CG	7.92	133.52	115.30
1	A	861	LEU	CA-CB-CG	7.92	133.51	115.30
1	B	858	LEU	CB-CG-CD1	7.91	124.45	111.00
1	A	651	ILE	CB-CA-C	7.91	127.42	111.60
1	B	774	GLN	OE1-CD-NE2	-7.91	103.72	121.90
1	C	858	LEU	CB-CG-CD1	7.91	124.44	111.00
1	B	651	ILE	CB-CA-C	7.90	127.40	111.60
1	C	651	ILE	CB-CA-C	7.90	127.40	111.60
1	B	186	PHE	C-N-CA	-7.90	101.95	121.70
1	A	186	PHE	C-N-CA	-7.89	101.97	121.70
1	C	186	PHE	C-N-CA	-7.88	101.99	121.70
1	A	774	GLN	OE1-CD-NE2	-7.88	103.77	121.90
1	C	774	GLN	OE1-CD-NE2	-7.88	103.77	121.90
1	A	858	LEU	CB-CG-CD1	7.87	124.38	111.00
1	A	153	MET	CB-CG-SD	7.86	135.99	112.40
1	C	153	MET	CB-CG-SD	7.85	135.94	112.40
1	B	153	MET	CB-CG-SD	7.84	135.93	112.40
1	C	1049	LEU	CB-CG-CD2	-7.84	97.68	111.00
1	B	1049	LEU	CB-CG-CD2	-7.83	97.69	111.00
1	A	1049	LEU	CB-CG-CD2	-7.82	97.70	111.00
1	B	946	GLY	C-N-CA	7.82	141.24	121.70
1	C	946	GLY	C-N-CA	7.81	141.22	121.70
1	A	946	GLY	C-N-CA	7.81	141.21	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	63	THR	CA-CB-CG2	-7.80	101.48	112.40
1	C	133	PHE	CG-CD2-CE2	7.79	129.37	120.80
1	C	63	THR	CA-CB-CG2	-7.79	101.50	112.40
1	A	63	THR	CA-CB-CG2	-7.78	101.51	112.40
1	A	133	PHE	CG-CD2-CE2	7.78	129.36	120.80
1	B	133	PHE	CG-CD2-CE2	7.77	129.35	120.80
1	A	1014	ARG	N-CA-CB	-7.57	96.98	110.60
1	B	233	ILE	CA-CB-CG1	7.57	125.38	111.00
1	B	1113	GLN	CB-CG-CD	7.56	131.26	111.60
1	B	926	GLN	CB-CG-CD	7.55	131.24	111.60
1	C	926	GLN	CB-CG-CD	7.55	131.24	111.60
1	A	233	ILE	CA-CB-CG1	7.55	125.34	111.00
1	A	926	GLN	CB-CG-CD	7.55	131.22	111.60
1	A	1113	GLN	CB-CG-CD	7.54	131.22	111.60
1	C	1113	GLN	CB-CG-CD	7.54	131.21	111.60
1	B	1014	ARG	N-CA-CB	-7.54	97.03	110.60
1	C	1014	ARG	N-CA-CB	-7.54	97.04	110.60
1	C	233	ILE	CA-CB-CG1	7.53	125.30	111.00
1	A	923	ILE	CB-CA-C	7.52	126.64	111.60
1	B	923	ILE	CB-CA-C	7.51	126.63	111.60
1	C	923	ILE	CB-CA-C	7.51	126.62	111.60
1	B	726	ILE	N-CA-C	-7.50	90.74	111.00
1	B	43	PHE	N-CA-CB	7.50	124.09	110.60
1	C	43	PHE	N-CA-CB	7.50	124.09	110.60
1	C	726	ILE	N-CA-C	-7.49	90.77	111.00
1	A	726	ILE	N-CA-C	-7.49	90.78	111.00
1	A	1089	PHE	CB-CG-CD2	-7.49	115.56	120.80
1	A	43	PHE	N-CA-CB	7.48	124.06	110.60
1	C	796	ASP	CB-CG-OD1	7.43	124.99	118.30
1	C	726	ILE	CB-CG1-CD1	-7.42	93.12	113.90
1	A	726	ILE	CB-CG1-CD1	-7.42	93.14	113.90
1	B	796	ASP	CB-CG-OD1	7.41	124.97	118.30
1	B	726	ILE	CB-CG1-CD1	-7.41	93.17	113.90
1	A	1013	ILE	CA-CB-CG1	7.40	125.05	111.00
1	B	1013	ILE	CA-CB-CG1	7.39	125.04	111.00
1	A	954	GLN	CA-CB-CG	7.39	129.66	113.40
1	A	84	LEU	CB-CG-CD2	-7.39	98.44	111.00
1	C	84	LEU	CB-CG-CD2	-7.39	98.44	111.00
1	A	796	ASP	CB-CG-OD1	7.38	124.94	118.30
1	B	84	LEU	CB-CG-CD2	-7.38	98.46	111.00
1	C	1013	ILE	CA-CB-CG1	7.38	125.02	111.00
1	C	954	GLN	CA-CB-CG	7.37	129.61	113.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	1089	PHE	CB-CG-CD2	-7.37	115.64	120.80
1	C	1089	PHE	CB-CG-CD2	-7.36	115.65	120.80
1	A	37	TYR	CB-CG-CD2	-7.36	116.58	121.00
1	B	954	GLN	CA-CB-CG	7.34	129.56	113.40
1	C	37	TYR	CB-CG-CD2	-7.30	116.62	121.00
1	C	1145	LEU	CD1-CG-CD2	-7.29	88.62	110.50
1	B	1145	LEU	CD1-CG-CD2	-7.29	88.64	110.50
1	A	1145	LEU	CD1-CG-CD2	-7.28	88.65	110.50
1	C	1071	GLN	CB-CG-CD	7.26	130.47	111.60
1	B	1071	GLN	CB-CG-CD	7.25	130.46	111.60
1	A	1071	GLN	CB-CG-CD	7.25	130.46	111.60
1	B	37	TYR	CB-CG-CD2	-7.25	116.65	121.00
1	A	774	GLN	CB-CA-C	7.20	124.80	110.40
1	B	774	GLN	CB-CA-C	7.20	124.80	110.40
1	C	1014	ARG	CD-NE-CZ	7.19	133.66	123.60
1	B	1014	ARG	CD-NE-CZ	7.18	133.66	123.60
1	C	774	GLN	CB-CA-C	7.17	124.74	110.40
1	C	195	LYS	CD-CE-NZ	7.16	128.16	111.70
1	A	1014	ARG	CD-NE-CZ	7.16	133.62	123.60
1	B	195	LYS	CD-CE-NZ	7.15	128.15	111.70
1	A	195	LYS	CD-CE-NZ	7.15	128.14	111.70
1	C	1113	GLN	CA-CB-CG	7.09	129.00	113.40
1	A	1113	GLN	CA-CB-CG	7.08	128.97	113.40
1	A	723	THR	N-CA-CB	-7.07	96.86	110.30
1	B	1113	GLN	CA-CB-CG	7.07	128.96	113.40
1	C	723	THR	N-CA-CB	-7.07	96.87	110.30
1	A	712	ILE	CA-CB-CG1	7.04	124.39	111.00
1	B	712	ILE	CA-CB-CG1	7.04	124.37	111.00
1	B	723	THR	N-CA-CB	-7.04	96.93	110.30
1	C	712	ILE	CA-CB-CG1	7.03	124.36	111.00
1	A	1102	TRP	CB-CG-CD1	-7.03	117.86	127.00
1	C	1102	TRP	CB-CG-CD1	-7.02	117.88	127.00
1	A	927	PHE	CB-CG-CD1	7.00	125.70	120.80
1	B	1102	TRP	CB-CG-CD1	-6.99	117.91	127.00
1	B	927	PHE	CB-CG-CD1	6.99	125.69	120.80
1	C	927	PHE	CB-CG-CD1	6.96	125.67	120.80
1	B	242	LEU	CA-CB-CG	6.90	131.17	115.30
1	C	242	LEU	CA-CB-CG	6.90	131.17	115.30
1	A	743	CYS	CA-CB-SG	6.89	126.39	114.00
1	C	296	LEU	CB-CG-CD1	6.88	122.70	111.00
1	A	242	LEU	CA-CB-CG	6.87	131.10	115.30
1	B	743	CYS	CA-CB-SG	6.86	126.36	114.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	296	LEU	CB-CG-CD1	6.85	122.65	111.00
1	A	296	LEU	CB-CG-CD1	6.85	122.65	111.00
1	C	743	CYS	CA-CB-SG	6.85	126.32	114.00
1	C	41	LYS	CA-CB-CG	6.83	128.42	113.40
1	A	954	GLN	OE1-CD-NE2	-6.81	106.23	121.90
1	B	41	LYS	CA-CB-CG	6.81	128.39	113.40
1	A	41	LYS	CA-CB-CG	6.80	128.37	113.40
1	B	954	GLN	OE1-CD-NE2	-6.79	106.29	121.90
1	C	954	GLN	OE1-CD-NE2	-6.79	106.29	121.90
1	B	922	LEU	N-CA-CB	6.77	123.95	110.40
1	B	1083	HIS	ND1-CE1-NE2	-6.76	95.03	109.90
1	C	922	LEU	N-CA-CB	6.76	123.92	110.40
1	A	220	PHE	CB-CG-CD1	-6.76	116.07	120.80
1	A	922	LEU	N-CA-CB	6.76	123.91	110.40
1	A	1083	HIS	ND1-CE1-NE2	-6.74	95.07	109.90
1	B	872	GLN	CA-CB-CG	6.73	128.21	113.40
1	C	872	GLN	CA-CB-CG	6.73	128.21	113.40
1	C	1083	HIS	ND1-CE1-NE2	-6.73	95.09	109.90
1	A	872	GLN	CA-CB-CG	6.72	128.19	113.40
1	A	299	THR	OG1-CB-CG2	-6.72	94.55	110.00
1	B	299	THR	OG1-CB-CG2	-6.71	94.56	110.00
1	C	299	THR	OG1-CB-CG2	-6.71	94.57	110.00
1	C	220	PHE	CB-CG-CD1	-6.69	116.12	120.80
1	B	220	PHE	CB-CG-CD1	-6.65	116.14	120.80
1	A	917	TYR	CB-CG-CD1	6.63	124.98	121.00
1	B	917	TYR	CB-CG-CD1	6.63	124.98	121.00
1	A	133	PHE	CG-CD1-CE1	6.62	128.08	120.80
1	B	133	PHE	CG-CD1-CE1	6.61	128.07	120.80
1	C	133	PHE	CG-CD1-CE1	6.61	128.07	120.80
1	C	182	LYS	CD-CE-NZ	6.54	126.74	111.70
1	C	917	TYR	CB-CG-CD1	6.54	124.92	121.00
1	A	182	LYS	CD-CE-NZ	6.53	126.72	111.70
1	B	182	LYS	CD-CE-NZ	6.53	126.71	111.70
1	A	1073	LYS	CA-CB-CG	6.50	127.70	113.40
1	B	1073	LYS	CA-CB-CG	6.50	127.70	113.40
1	C	1073	LYS	CA-CB-CG	6.49	127.68	113.40
1	A	917	TYR	CB-CG-CD2	-6.48	117.11	121.00
1	C	917	TYR	CB-CG-CD2	-6.42	117.15	121.00
1	C	1005	GLN	CB-CG-CD	-6.40	94.95	111.60
1	B	917	TYR	CB-CG-CD2	-6.39	117.16	121.00
1	B	1005	GLN	CB-CG-CD	-6.39	94.99	111.60
1	A	1005	GLN	CB-CG-CD	-6.39	94.99	111.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	83	VAL	C-N-CA	6.35	137.58	121.70
1	C	1083	HIS	CB-CG-ND1	6.35	139.08	123.20
1	A	83	VAL	C-N-CA	6.34	137.56	121.70
1	C	83	VAL	C-N-CA	6.34	137.56	121.70
1	B	1083	HIS	CB-CG-ND1	6.34	139.04	123.20
1	A	1083	HIS	CB-CG-ND1	6.33	139.04	123.20
1	B	37	TYR	CB-CG-CD1	6.33	124.80	121.00
1	A	37	TYR	CB-CG-CD1	6.32	124.79	121.00
1	B	1002	GLN	OE1-CD-NE2	-6.31	107.39	121.90
1	C	1002	GLN	OE1-CD-NE2	-6.31	107.40	121.90
1	C	1102	TRP	CB-CG-CD2	6.30	134.79	126.60
1	B	212	LEU	CA-CB-CG	6.30	129.79	115.30
1	A	212	LEU	CA-CB-CG	6.29	129.78	115.30
1	A	1002	GLN	OE1-CD-NE2	-6.29	107.44	121.90
1	A	927	PHE	CB-CG-CD2	-6.28	116.40	120.80
1	C	37	TYR	CB-CG-CD1	6.27	124.77	121.00
1	A	1102	TRP	CB-CG-CD2	6.26	134.74	126.60
1	B	927	PHE	CB-CG-CD2	-6.26	116.42	120.80
1	C	212	LEU	CA-CB-CG	6.25	129.68	115.30
1	B	1102	TRP	CB-CG-CD2	6.25	134.72	126.60
1	C	927	PHE	CB-CG-CD2	-6.25	116.43	120.80
1	A	1014	ARG	CB-CG-CD	-6.23	95.41	111.60
1	B	1014	ARG	CB-CG-CD	-6.22	95.43	111.60
1	A	63	THR	CB-CA-C	-6.21	94.82	111.60
1	B	63	THR	CB-CA-C	-6.21	94.83	111.60
1	C	63	THR	CB-CA-C	-6.21	94.84	111.60
1	B	78	ARG	NH1-CZ-NH2	-6.21	112.58	119.40
1	C	1014	ARG	CB-CG-CD	-6.21	95.47	111.60
1	A	78	ARG	NH1-CZ-NH2	-6.20	112.58	119.40
1	A	134	GLN	CA-CB-CG	6.20	127.03	113.40
1	B	134	GLN	CA-CB-CG	6.19	127.02	113.40
1	C	1083	HIS	CE1-NE2-CD2	-6.19	91.14	106.60
1	A	727	LEU	N-CA-CB	6.18	122.76	110.40
1	C	923	ILE	CG1-CB-CG2	6.17	124.97	111.40
1	C	954	GLN	CB-CG-CD	6.17	127.64	111.60
1	A	1083	HIS	CE1-NE2-CD2	-6.17	91.18	106.60
1	C	134	GLN	CA-CB-CG	6.17	126.96	113.40
1	B	1083	HIS	CE1-NE2-CD2	-6.16	91.19	106.60
1	B	727	LEU	N-CA-CB	6.16	122.72	110.40
1	B	954	GLN	CB-CG-CD	6.16	127.61	111.60
1	A	954	GLN	CB-CG-CD	6.16	127.61	111.60
1	C	78	ARG	NH1-CZ-NH2	-6.16	112.63	119.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	727	LEU	N-CA-CB	6.16	122.71	110.40
1	B	923	ILE	CG1-CB-CG2	6.14	124.91	111.40
1	B	712	ILE	CG1-CB-CG2	6.13	124.90	111.40
1	A	923	ILE	CG1-CB-CG2	6.13	124.89	111.40
1	C	212	LEU	CB-CG-CD2	-6.12	100.59	111.00
1	C	712	ILE	CG1-CB-CG2	6.12	124.86	111.40
1	A	212	LEU	CB-CG-CD2	-6.11	100.62	111.00
1	A	712	ILE	CG1-CB-CG2	6.11	124.84	111.40
1	B	212	LEU	CB-CG-CD2	-6.07	100.68	111.00
1	C	1029	MET	CG-SD-CE	6.06	109.89	100.20
1	A	1029	MET	CG-SD-CE	6.05	109.88	100.20
1	B	1029	MET	CG-SD-CE	6.03	109.85	100.20
1	A	1085	GLY	C-N-CA	6.03	136.76	121.70
1	B	1085	GLY	C-N-CA	6.01	136.73	121.70
1	C	1085	GLY	C-N-CA	6.01	136.72	121.70
1	B	312	ILE	CA-CB-CG2	-6.00	98.90	110.90
1	A	312	ILE	CA-CB-CG2	-6.00	98.90	110.90
1	C	99	ASN	OD1-CG-ND2	-5.99	108.13	121.90
1	B	231	ILE	CB-CA-C	-5.98	99.63	111.60
1	C	312	ILE	CA-CB-CG2	-5.98	98.94	110.90
1	A	99	ASN	OD1-CG-ND2	-5.98	108.16	121.90
1	A	281	GLU	OE1-CD-OE2	5.97	130.46	123.30
1	C	231	ILE	CB-CA-C	-5.96	99.68	111.60
1	A	231	ILE	CB-CA-C	-5.95	99.70	111.60
1	B	281	GLU	OE1-CD-OE2	5.95	130.44	123.30
1	C	281	GLU	OE1-CD-OE2	5.95	130.44	123.30
1	B	99	ASN	OD1-CG-ND2	-5.93	108.26	121.90
1	A	726	ILE	C-N-CA	-5.93	106.88	121.70
1	B	726	ILE	C-N-CA	-5.93	106.89	121.70
1	C	726	ILE	C-N-CA	-5.91	106.91	121.70
1	A	1042	PHE	CB-CG-CD2	-5.90	116.67	120.80
1	C	237	ARG	CA-CB-CG	5.89	126.37	113.40
1	C	715	PRO	CA-N-CD	-5.88	103.27	111.50
1	B	237	ARG	CA-CB-CG	5.88	126.33	113.40
1	A	237	ARG	CA-CB-CG	5.88	126.33	113.40
1	A	715	PRO	CA-N-CD	-5.87	103.28	111.50
1	B	715	PRO	CA-N-CD	-5.87	103.28	111.50
1	C	41	LYS	CD-CE-NZ	5.87	125.20	111.70
1	B	266	TYR	CB-CG-CD1	5.87	124.52	121.00
1	C	1042	PHE	CB-CG-CD2	-5.86	116.70	120.80
1	C	858	LEU	CB-CG-CD2	-5.86	101.04	111.00
1	A	41	LYS	CD-CE-NZ	5.85	125.16	111.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	858	LEU	CB-CG-CD2	-5.85	101.06	111.00
1	B	858	LEU	CB-CG-CD2	-5.85	101.06	111.00
1	B	41	LYS	CD-CE-NZ	5.84	125.14	111.70
1	A	1014	ARG	NE-CZ-NH1	5.84	123.22	120.30
1	C	1081	ILE	CG1-CB-CG2	-5.83	98.58	111.40
1	B	1081	ILE	CG1-CB-CG2	-5.81	98.62	111.40
1	A	266	TYR	CB-CG-CD1	5.81	124.48	121.00
1	A	1081	ILE	CG1-CB-CG2	-5.81	98.63	111.40
1	B	1086	LYS	CB-CG-CD	5.81	126.69	111.60
1	B	1042	PHE	CB-CG-CD2	-5.80	116.74	120.80
1	C	266	TYR	CB-CG-CD1	5.80	124.48	121.00
1	C	1086	LYS	CB-CG-CD	5.80	126.68	111.60
1	C	1014	ARG	NE-CZ-NH1	5.80	123.20	120.30
1	A	1086	LYS	CB-CG-CD	5.79	126.66	111.60
1	A	1101	HIS	CA-CB-CG	-5.78	103.77	113.60
1	C	1101	HIS	CA-CB-CG	-5.77	103.79	113.60
1	B	1101	HIS	CA-CB-CG	-5.77	103.79	113.60
1	A	1071	GLN	OE1-CD-NE2	5.73	135.08	121.90
1	B	1071	GLN	OE1-CD-NE2	5.73	135.08	121.90
1	C	1071	GLN	OE1-CD-NE2	5.73	135.08	121.90
1	B	1073	LYS	N-CA-C	-5.72	95.55	111.00
1	A	1073	LYS	N-CA-C	-5.72	95.55	111.00
1	B	1014	ARG	NE-CZ-NH1	5.72	123.16	120.30
1	B	1114	ILE	CA-CB-CG1	5.71	121.84	111.00
1	C	1073	LYS	N-CA-C	-5.71	95.59	111.00
1	C	1114	ILE	CA-CB-CG1	5.71	121.84	111.00
1	C	869	MET	CB-CG-SD	-5.70	95.31	112.40
1	A	1114	ILE	CA-CB-CG1	5.69	121.82	111.00
1	A	869	MET	CB-CG-SD	-5.69	95.33	112.40
1	B	869	MET	CB-CG-SD	-5.69	95.33	112.40
1	B	790	LYS	CG-CD-CE	5.68	128.95	111.90
1	C	790	LYS	CG-CD-CE	5.68	128.93	111.90
1	B	277	LEU	CB-CG-CD1	5.67	120.65	111.00
1	A	42	VAL	CB-CA-C	-5.67	100.62	111.40
1	A	790	LYS	CG-CD-CE	5.67	128.90	111.90
1	C	233	ILE	CA-CB-CG2	-5.67	99.57	110.90
1	C	233	ILE	N-CA-C	-5.66	95.72	111.00
1	C	277	LEU	CB-CG-CD1	5.65	120.60	111.00
1	A	277	LEU	CB-CG-CD1	5.65	120.60	111.00
1	A	233	ILE	CA-CB-CG2	-5.64	99.61	110.90
1	B	233	ILE	CA-CB-CG2	-5.64	99.61	110.90
1	C	42	VAL	CB-CA-C	-5.64	100.68	111.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	42	VAL	CB-CA-C	-5.64	100.68	111.40
1	A	233	ILE	N-CA-C	-5.64	95.78	111.00
1	B	233	ILE	N-CA-C	-5.63	95.79	111.00
1	C	120	VAL	CG1-CB-CG2	5.61	119.87	110.90
1	B	120	VAL	CG1-CB-CG2	5.61	119.87	110.90
1	A	120	VAL	CG1-CB-CG2	5.59	119.84	110.90
1	C	983	ARG	N-CA-C	5.58	126.08	111.00
1	A	287	ASP	CB-CG-OD2	5.58	123.32	118.30
1	B	600	PRO	N-CA-CB	-5.58	96.46	102.60
1	A	983	ARG	N-CA-C	5.57	126.04	111.00
1	A	947	LYS	CG-CD-CE	5.57	128.60	111.90
1	C	947	LYS	CG-CD-CE	5.56	128.59	111.90
1	B	983	ARG	N-CA-C	5.56	126.02	111.00
1	B	947	LYS	CG-CD-CE	5.55	128.56	111.90
1	A	600	PRO	N-CA-CB	-5.55	96.50	102.60
1	C	600	PRO	N-CA-CB	-5.54	96.50	102.60
1	B	208	THR	CA-CB-OG1	5.53	120.60	109.00
1	B	187	LYS	N-CA-C	-5.52	96.10	111.00
1	C	208	THR	CA-CB-OG1	5.51	120.58	109.00
1	A	187	LYS	N-CA-C	-5.51	96.13	111.00
1	C	287	ASP	CB-CG-OD2	5.51	123.26	118.30
1	B	287	ASP	CB-CG-OD2	5.51	123.26	118.30
1	C	187	LYS	N-CA-C	-5.50	96.14	111.00
1	B	158	ARG	CA-CB-CG	5.49	125.47	113.40
1	A	208	THR	CA-CB-CG2	5.48	120.07	112.40
1	A	208	THR	CA-CB-OG1	5.48	120.50	109.00
1	A	304	LYS	N-CA-C	5.47	125.78	111.00
1	C	1005	GLN	CA-CB-CG	5.47	125.44	113.40
1	C	158	ARG	CA-CB-CG	5.47	125.43	113.40
1	A	113	LYS	CB-CG-CD	5.47	125.81	111.60
1	B	1072	GLU	C-N-CA	-5.46	108.04	121.70
1	C	113	LYS	CB-CG-CD	5.46	125.79	111.60
1	B	113	LYS	CB-CG-CD	5.46	125.79	111.60
1	A	995	ARG	CA-CB-CG	5.45	125.40	113.40
1	A	1109	PHE	CD1-CG-CD2	-5.45	111.21	118.30
1	B	304	LYS	N-CA-C	5.45	125.72	111.00
1	A	158	ARG	CA-CB-CG	5.45	125.39	113.40
1	A	41	LYS	N-CA-C	-5.45	96.29	111.00
1	A	1005	GLN	CA-CB-CG	5.45	125.39	113.40
1	B	41	LYS	N-CA-C	-5.45	96.29	111.00
1	C	208	THR	CA-CB-CG2	5.45	120.03	112.40
1	C	304	LYS	N-CA-C	5.45	125.70	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	C	41	LYS	N-CA-C	-5.44	96.30	111.00
1	B	1005	GLN	CA-CB-CG	5.44	125.37	113.40
1	C	1072	GLU	C-N-CA	-5.44	108.09	121.70
1	A	1072	GLU	C-N-CA	-5.44	108.10	121.70
1	B	208	THR	CA-CB-CG2	5.44	120.01	112.40
1	B	995	ARG	CA-CB-CG	5.43	125.36	113.40
1	A	905	ARG	NH1-CZ-NH2	-5.43	113.42	119.40
1	C	1109	PHE	CD1-CG-CD2	-5.42	111.25	118.30
1	C	995	ARG	CA-CB-CG	5.41	125.30	113.40
1	B	608	VAL	CB-CA-C	5.41	121.68	111.40
1	A	608	VAL	CB-CA-C	5.41	121.67	111.40
1	C	608	VAL	CB-CA-C	5.40	121.66	111.40
1	B	1109	PHE	CD1-CG-CD2	-5.40	111.28	118.30
1	C	317	ASN	C-N-CA	-5.38	108.25	121.70
1	B	317	ASN	C-N-CA	-5.37	108.27	121.70
1	A	317	ASN	C-N-CA	-5.37	108.28	121.70
1	A	608	VAL	CA-CB-CG1	5.37	118.95	110.90
1	B	905	ARG	NH1-CZ-NH2	-5.37	113.50	119.40
1	B	608	VAL	CA-CB-CG1	5.36	118.94	110.90
1	C	608	VAL	CA-CB-CG1	5.36	118.94	110.90
1	C	905	ARG	NH1-CZ-NH2	-5.34	113.53	119.40
1	A	40	ASP	CA-C-N	-5.33	105.47	117.20
1	B	40	ASP	CA-C-N	-5.33	105.48	117.20
1	B	270	LEU	CB-CG-CD1	5.33	120.06	111.00
1	C	40	ASP	CA-C-N	-5.33	105.48	117.20
1	B	1002	GLN	CG-CD-OE1	5.32	132.25	121.60
1	A	40	ASP	O-C-N	5.32	131.21	122.70
1	A	270	LEU	CB-CG-CD1	5.32	120.04	111.00
1	C	1002	GLN	CG-CD-OE1	5.32	132.24	121.60
1	B	40	ASP	O-C-N	5.31	131.19	122.70
1	A	1002	GLN	CG-CD-OE1	5.30	132.21	121.60
1	C	40	ASP	O-C-N	5.30	131.19	122.70
1	C	270	LEU	CB-CG-CD1	5.30	120.02	111.00
1	C	926	GLN	CB-CA-C	5.30	120.99	110.40
1	B	926	GLN	CB-CA-C	5.28	120.96	110.40
1	A	995	ARG	N-CA-CB	-5.27	101.11	110.60
1	A	926	GLN	CB-CA-C	5.27	120.93	110.40
1	A	278	LYS	CD-CE-NZ	5.26	123.81	111.70
1	B	278	LYS	CD-CE-NZ	5.26	123.79	111.70
1	A	995	ARG	CB-CA-C	5.25	120.90	110.40
1	C	954	GLN	CG-CD-NE2	-5.25	104.10	116.70
1	C	995	ARG	N-CA-CB	-5.25	101.15	110.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	B	954	GLN	CG-CD-NE2	-5.25	104.11	116.70
1	B	995	ARG	N-CA-CB	-5.25	101.16	110.60
1	C	995	ARG	CB-CA-C	5.24	120.89	110.40
1	B	995	ARG	CB-CA-C	5.24	120.88	110.40
1	C	278	LYS	CD-CE-NZ	5.23	123.74	111.70
1	B	1086	LYS	CG-CD-CE	-5.22	96.23	111.90
1	A	1086	LYS	CG-CD-CE	-5.22	96.25	111.90
1	A	954	GLN	CG-CD-NE2	-5.21	104.19	116.70
1	A	926	GLN	N-CA-CB	-5.21	101.22	110.60
1	B	926	GLN	N-CA-CB	-5.21	101.22	110.60
1	B	1100	THR	C-N-CA	5.21	134.73	121.70
1	C	1086	LYS	CG-CD-CE	-5.21	96.28	111.90
1	C	926	GLN	N-CA-CB	-5.21	101.23	110.60
1	A	1100	THR	C-N-CA	5.20	134.70	121.70
1	B	755	GLN	CG-CD-NE2	-5.20	104.22	116.70
1	C	1100	THR	C-N-CA	5.20	134.69	121.70
1	A	811	LYS	CB-CA-C	-5.19	100.03	110.40
1	C	1114	ILE	N-CA-C	-5.18	97.01	111.00
1	B	811	LYS	CB-CA-C	-5.18	100.04	110.40
1	C	265	TYR	CB-CG-CD2	5.18	124.11	121.00
1	C	755	GLN	CG-CD-NE2	-5.18	104.27	116.70
1	B	216	LEU	CA-CB-CG	5.18	127.21	115.30
1	A	755	GLN	CG-CD-NE2	-5.18	104.28	116.70
1	B	1114	ILE	N-CA-C	-5.17	97.03	111.00
1	B	739	THR	OG1-CB-CG2	5.17	121.90	110.00
1	C	811	LYS	CB-CA-C	-5.17	100.05	110.40
1	A	1114	ILE	N-CA-C	-5.17	97.03	111.00
1	B	905	ARG	CB-CG-CD	5.17	125.05	111.60
1	B	265	TYR	CB-CG-CD2	5.17	124.10	121.00
1	C	905	ARG	CB-CG-CD	5.17	125.04	111.60
1	C	1113	GLN	OE1-CD-NE2	-5.16	110.02	121.90
1	C	811	LYS	N-CA-CB	5.16	119.89	110.60
1	A	727	LEU	CB-CA-C	-5.16	100.39	110.20
1	B	727	LEU	CB-CA-C	-5.16	100.40	110.20
1	A	905	ARG	CB-CG-CD	5.16	125.00	111.60
1	A	811	LYS	N-CA-CB	5.15	119.88	110.60
1	C	216	LEU	CA-CB-CG	5.15	127.15	115.30
1	C	739	THR	OG1-CB-CG2	5.15	121.84	110.00
1	A	216	LEU	CA-CB-CG	5.14	127.13	115.30
1	B	1113	GLN	OE1-CD-NE2	-5.14	110.07	121.90
1	B	811	LYS	N-CA-CB	5.14	119.85	110.60
1	A	739	THR	OG1-CB-CG2	5.14	121.82	110.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	697	MET	CB-CG-SD	5.13	127.80	112.40
1	B	697	MET	CB-CG-SD	5.13	127.80	112.40
1	C	727	LEU	CB-CA-C	-5.13	100.45	110.20
1	C	266	TYR	CD1-CG-CD2	-5.13	112.26	117.90
1	A	266	TYR	CD1-CG-CD2	-5.12	112.26	117.90
1	B	266	TYR	CD1-CG-CD2	-5.12	112.26	117.90
1	C	697	MET	CB-CG-SD	5.12	127.77	112.40
1	A	1073	LYS	CD-CE-NZ	-5.11	99.96	111.70
1	A	1113	GLN	OE1-CD-NE2	-5.10	110.16	121.90
1	A	1122	VAL	CA-CB-CG2	-5.10	103.25	110.90
1	B	1122	VAL	CA-CB-CG2	-5.10	103.25	110.90
1	C	1122	VAL	CA-CB-CG2	-5.10	103.25	110.90
1	A	265	TYR	CB-CG-CD2	5.10	124.06	121.00
1	B	1013	ILE	CB-CA-C	5.09	121.79	111.60
1	C	166	CYS	CA-CB-SG	5.09	123.16	114.00
1	B	1073	LYS	CD-CE-NZ	-5.09	100.00	111.70
1	C	1073	LYS	CD-CE-NZ	-5.09	100.00	111.70
1	A	1013	ILE	CB-CA-C	5.08	121.77	111.60
1	A	166	CYS	CA-CB-SG	5.08	123.14	114.00
1	C	1013	ILE	CB-CA-C	5.07	121.73	111.60
1	C	281	GLU	CA-CB-CG	5.06	124.54	113.40
1	B	166	CYS	CA-CB-SG	5.06	123.11	114.00
1	B	281	GLU	CA-CB-CG	5.06	124.53	113.40
1	B	774	GLN	N-CA-CB	-5.04	101.52	110.60
1	A	774	GLN	N-CA-CB	-5.04	101.52	110.60
1	A	281	GLU	CA-CB-CG	5.03	124.47	113.40
1	C	774	GLN	N-CA-CB	-5.03	101.54	110.60
1	A	306	PHE	CB-CA-C	-5.01	100.37	110.40
1	B	562	PHE	CB-CA-C	5.01	120.43	110.40
1	C	817	PHE	CB-CG-CD2	-5.01	117.29	120.80
1	A	817	PHE	CB-CG-CD2	-5.00	117.30	120.80
1	B	110	LEU	CA-CB-CG	5.00	126.81	115.30

All (15) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	63	THR	CB
1	A	208	THR	CB
1	A	231	ILE	CB
1	A	712	ILE	CB
1	A	923	ILE	CB
1	B	63	THR	CB

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Mol	Chain	Res	Type	Atom
1	B	208	THR	CB
1	B	231	ILE	CB
1	B	712	ILE	CB
1	B	923	ILE	CB
1	C	63	THR	CB
1	C	208	THR	CB
1	C	231	ILE	CB
1	C	712	ILE	CB
1	C	923	ILE	CB

All (161) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1002	GLN	Sidechain
1	A	1014	ARG	Sidechain
1	A	1071	GLN	Sidechain
1	A	1083	HIS	Sidechain
1	A	1089	PHE	Sidechain
1	A	1101	HIS	Peptide,Sidechain
1	A	1109	PHE	Sidechain
1	A	1112	PRO	Peptide
1	A	1113	GLN	Peptide,Sidechain
1	A	1129	VAL	Mainchain
1	A	133	PHE	Sidechain
1	A	134	GLN	Sidechain
1	A	201	PHE	Peptide
1	A	202	LYS	Peptide
1	A	220	PHE	Peptide
1	A	237	ARG	Sidechain
1	A	244	LEU	Peptide
1	A	246	ARG	Sidechain
1	A	266	TYR	Sidechain
1	A	277	LEU	Peptide
1	A	293	LEU	Peptide
1	A	304	LYS	Mainchain
1	A	306	PHE	Peptide
1	A	318	PHE	Peptide,Sidechain
1	A	319	ARG	Mainchain
1	A	34	ARG	Sidechain
1	A	37	TYR	Sidechain
1	A	41	LYS	Mainchain
1	A	42	VAL	Peptide

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Mol	Chain	Res	Type	Group
1	A	43	PHE	Sidechain
1	A	44	ARG	Sidechain
1	A	52	GLN	Sidechain
1	A	599	THR	Peptide
1	A	602	THR	Peptide
1	A	603	ASN	Sidechain
1	A	612	TYR	Peptide
1	A	725	GLU	Peptide
1	A	765	ARG	Sidechain
1	A	774	GLN	Sidechain
1	A	78	ARG	Sidechain
1	A	901	GLN	Sidechain
1	A	905	ARG	Sidechain
1	A	920	GLN	Sidechain
1	A	925	ASN	Sidechain
1	A	926	GLN	Sidechain
1	A	945	LEU	Peptide
1	A	947	LYS	Mainchain
1	A	954	GLN	Sidechain
1	A	983	ARG	Sidechain
1	A	99	ASN	Sidechain
1	B	1002	GLN	Sidechain
1	B	1014	ARG	Sidechain
1	B	1071	GLN	Sidechain
1	B	1083	HIS	Sidechain
1	B	1089	PHE	Sidechain
1	B	1101	HIS	Peptide,Sidechain
1	B	1109	PHE	Sidechain
1	B	1112	PRO	Peptide
1	B	1113	GLN	Peptide,Sidechain
1	B	1129	VAL	Mainchain
1	B	133	PHE	Sidechain
1	B	134	GLN	Sidechain
1	B	201	PHE	Peptide
1	B	202	LYS	Peptide
1	B	220	PHE	Peptide
1	B	237	ARG	Sidechain
1	B	244	LEU	Peptide
1	B	246	ARG	Sidechain
1	B	266	TYR	Sidechain
1	B	277	LEU	Peptide
1	B	293	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	B	304	LYS	Mainchain
1	B	306	PHE	Peptide
1	B	318	PHE	Peptide,Sidechain
1	B	34	ARG	Sidechain
1	B	37	TYR	Sidechain
1	B	41	LYS	Mainchain
1	B	42	VAL	Peptide
1	B	43	PHE	Sidechain
1	B	44	ARG	Sidechain
1	B	488	CYS	Peptide
1	B	489	TYR	Peptide
1	B	52	GLN	Sidechain
1	B	599	THR	Peptide
1	B	602	THR	Peptide
1	B	603	ASN	Sidechain
1	B	612	TYR	Peptide
1	B	725	GLU	Peptide
1	B	765	ARG	Sidechain
1	B	774	GLN	Sidechain
1	B	78	ARG	Sidechain
1	B	901	GLN	Sidechain
1	B	905	ARG	Sidechain
1	B	920	GLN	Sidechain
1	B	925	ASN	Sidechain
1	B	926	GLN	Sidechain
1	B	945	LEU	Peptide
1	B	947	LYS	Mainchain
1	B	954	GLN	Sidechain
1	B	983	ARG	Sidechain
1	B	99	ASN	Sidechain
1	C	1002	GLN	Sidechain
1	C	1014	ARG	Sidechain
1	C	1071	GLN	Sidechain
1	C	1083	HIS	Sidechain
1	C	1089	PHE	Sidechain
1	C	1101	HIS	Peptide,Sidechain
1	C	1109	PHE	Sidechain
1	C	1112	PRO	Peptide
1	C	1113	GLN	Peptide,Sidechain
1	C	1129	VAL	Mainchain
1	C	133	PHE	Sidechain
1	C	134	GLN	Sidechain

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Mol	Chain	Res	Type	Group
1	C	201	PHE	Peptide
1	C	202	LYS	Peptide
1	C	220	PHE	Peptide
1	C	237	ARG	Sidechain
1	C	244	LEU	Peptide
1	C	246	ARG	Sidechain
1	C	266	TYR	Sidechain
1	C	277	LEU	Peptide
1	C	293	LEU	Peptide
1	C	304	LYS	Mainchain
1	C	306	PHE	Peptide
1	C	318	PHE	Peptide,Sidechain
1	C	331	ASN	Peptide
1	C	34	ARG	Sidechain
1	C	37	TYR	Sidechain
1	C	41	LYS	Mainchain
1	C	42	VAL	Peptide
1	C	43	PHE	Sidechain
1	C	44	ARG	Sidechain
1	C	52	GLN	Sidechain
1	C	579	PRO	Peptide
1	C	599	THR	Peptide
1	C	602	THR	Peptide
1	C	603	ASN	Sidechain
1	C	612	TYR	Peptide
1	C	725	GLU	Peptide
1	C	765	ARG	Sidechain
1	C	774	GLN	Sidechain
1	C	78	ARG	Sidechain
1	C	901	GLN	Sidechain
1	C	905	ARG	Sidechain
1	C	920	GLN	Sidechain
1	C	925	ASN	Sidechain
1	C	926	GLN	Sidechain
1	C	945	LEU	Peptide
1	C	947	LYS	Mainchain
1	C	954	GLN	Sidechain
1	C	983	ARG	Sidechain
1	C	99	ASN	Sidechain

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	8292	8068	8072	976	0
1	B	8253	8034	8040	1015	0
1	C	8292	8069	8068	1105	0
2	D	895	0	866	131	0
3	E	28	25	25	8	0
3	F	28	25	25	0	0
3	G	28	25	25	21	0
3	H	28	25	25	6	0
3	I	28	25	25	3	0
4	A	182	168	169	22	0
4	B	182	167	169	38	0
4	C	98	77	91	4	0
All	All	26334	24708	25600	3025	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 58.

All (3025) 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:948:LEU:CD1	1:B:948:LEU:CG	1.75	1.65
1:B:42:VAL:CG1	1:B:42:VAL:CB	1.76	1.61
1:C:948:LEU:CD1	1:C:948:LEU:CG	1.75	1.60
1:A:948:LEU:CG	1:A:948:LEU:CD1	1.75	1.58
1:B:42:VAL:CG1	1:B:42:VAL:CG2	1.74	1.56
1:B:611:LEU:CD2	1:B:611:LEU:CG	1.85	1.55
1:B:933:LYS:NZ	1:B:933:LYS:CE	1.68	1.54
1:C:611:LEU:CD2	1:C:611:LEU:CG	1.85	1.54
1:C:933:LYS:NZ	1:C:933:LYS:CE	1.68	1.53
1:C:1073:LYS:NZ	1:C:1073:LYS:CE	1.70	1.52
1:A:933:LYS:NZ	1:A:933:LYS:CE	1.68	1.52
1:A:611:LEU:CD2	1:A:611:LEU:CG	1.85	1.52
1:A:304:LYS:CG	1:A:304:LYS:CE	1.87	1.51
1:B:670:ILE:CB	1:B:670:ILE:CG2	1.87	1.51
1:B:41:LYS:CA	1:B:41:LYS:C	1.76	1.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1073:LYS:NZ	1:B:1073:LYS:CE	1.70	1.51
1:C:670:ILE:CB	1:C:670:ILE:CG2	1.87	1.51
1:A:41:LYS:C	1:A:41:LYS:CA	1.76	1.51
1:B:231:ILE:CG2	1:B:231:ILE:CG1	1.85	1.51
1:C:41:LYS:C	1:C:41:LYS:CA	1.76	1.50
1:C:231:ILE:CG1	1:C:231:ILE:CG2	1.85	1.49
1:A:670:ILE:CB	1:A:670:ILE:CG2	1.87	1.49
1:A:231:ILE:CG1	1:A:231:ILE:CG2	1.85	1.49
1:A:1073:LYS:NZ	1:A:1073:LYS:CE	1.70	1.49
1:A:651:ILE:CD1	1:A:651:ILE:CG1	1.92	1.48
1:A:651:ILE:CG2	1:A:651:ILE:CB	1.92	1.47
1:B:304:LYS:CE	1:B:304:LYS:CG	1.87	1.47
1:B:651:ILE:CG1	1:B:651:ILE:CD1	1.92	1.47
1:C:304:LYS:CE	1:C:304:LYS:CG	1.87	1.47
1:B:651:ILE:CB	1:B:651:ILE:CG2	1.92	1.46
1:C:651:ILE:CG1	1:C:651:ILE:CG2	1.93	1.46
1:C:651:ILE:CG1	1:C:651:ILE:CD1	1.92	1.46
1:A:651:ILE:CG1	1:A:651:ILE:CG2	1.93	1.44
1:C:651:ILE:CG2	1:C:651:ILE:CB	1.92	1.44
1:B:563:GLN:CA	1:C:41:LYS:HG2	1.44	1.43
1:B:651:ILE:CG1	1:B:651:ILE:CG2	1.93	1.43
1:C:651:ILE:CD1	1:C:651:ILE:HB	1.49	1.43
1:C:1071:GLN:NE2	1:C:1071:GLN:CD	1.71	1.42
1:B:41:LYS:CG	1:B:41:LYS:CD	1.97	1.41
1:A:611:LEU:CD2	1:A:611:LEU:CD1	1.99	1.41
1:A:1071:GLN:NE2	1:A:1071:GLN:CD	1.71	1.41
1:B:651:ILE:CD1	1:B:651:ILE:HB	1.49	1.40
1:C:611:LEU:CD2	1:C:611:LEU:HD13	1.51	1.40
1:B:1071:GLN:CD	1:B:1071:GLN:NE2	1.71	1.40
1:C:41:LYS:CD	1:C:41:LYS:CG	1.97	1.40
1:C:651:ILE:CD1	1:C:651:ILE:CB	2.01	1.39
1:A:41:LYS:CG	1:A:41:LYS:CD	1.97	1.39
1:A:651:ILE:CD1	1:A:651:ILE:HB	1.49	1.39
1:C:611:LEU:CD2	1:C:611:LEU:CD1	1.99	1.39
1:B:611:LEU:CD2	1:B:611:LEU:CD1	1.99	1.39
1:B:611:LEU:CD2	1:B:611:LEU:HD13	1.51	1.39
1:A:611:LEU:CD2	1:A:611:LEU:HD13	1.51	1.38
1:B:651:ILE:CD1	1:B:651:ILE:CB	2.01	1.38
1:A:651:ILE:CD1	1:A:651:ILE:CB	2.01	1.36
1:A:562:PHE:O	1:B:41:LYS:HG3	1.23	1.33
1:A:231:ILE:CG2	1:A:231:ILE:CB	2.06	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:231:ILE:CG2	1:C:231:ILE:CB	2.06	1.32
1:B:231:ILE:CG2	1:B:231:ILE:CB	2.06	1.32
1:C:452:LEU:HD13	2:D:33:ARG:CD	1.61	1.29
1:B:699:LEU:HD13	1:C:872:GLN:OE1	1.22	1.28
1:B:1130:ILE:HD11	1:C:920:GLN:OE1	1.26	1.28
1:B:231:ILE:CD1	1:B:231:ILE:HG21	1.66	1.25
1:C:231:ILE:HG21	1:C:231:ILE:CD1	1.66	1.25
1:B:563:GLN:CB	1:C:41:LYS:HG2	1.68	1.24
1:A:231:ILE:HG21	1:A:231:ILE:CD1	1.66	1.24
1:A:1071:GLN:NE2	1:A:1071:GLN:CG	1.99	1.24
1:B:1071:GLN:NE2	1:B:1071:GLN:CG	1.99	1.24
1:C:1071:GLN:NE2	1:C:1071:GLN:CG	1.99	1.24
1:B:231:ILE:CG2	1:B:231:ILE:HG13	1.55	1.23
1:C:231:ILE:CG2	1:C:231:ILE:HG13	1.55	1.22
1:A:231:ILE:CG2	1:A:231:ILE:HG13	1.55	1.19
1:B:42:VAL:CG1	1:B:42:VAL:HG23	1.69	1.19
1:B:281:GLU:OE1	4:B:1304:NAG:O7	1.59	1.19
1:C:304:LYS:CD	1:C:304:LYS:CB	2.22	1.18
1:B:231:ILE:HG21	1:B:231:ILE:HD12	1.26	1.17
1:A:304:LYS:CD	1:A:304:LYS:CB	2.22	1.17
1:B:41:LYS:CG	1:B:41:LYS:CE	2.23	1.17
1:C:41:LYS:CG	1:C:41:LYS:CE	2.23	1.17
1:A:41:LYS:CG	1:A:41:LYS:CE	2.22	1.17
1:B:42:VAL:CG2	1:B:42:VAL:HG11	1.75	1.16
1:B:304:LYS:CD	1:B:304:LYS:CB	2.22	1.16
1:A:44:ARG:NH2	1:C:567:ARG:HB2	1.59	1.15
1:B:699:LEU:CD1	1:C:872:GLN:OE1	1.94	1.14
1:A:41:LYS:CG	1:C:562:PHE:O	1.95	1.13
1:B:699:LEU:HD11	1:C:872:GLN:NE2	1.61	1.13
1:A:41:LYS:CG	1:A:41:LYS:CB	2.28	1.12
1:B:41:LYS:CG	1:B:41:LYS:CB	2.28	1.12
1:A:1101:HIS:CE1	4:A:1312:NAG:C5	2.32	1.12
1:C:41:LYS:CG	1:C:41:LYS:CB	2.28	1.12
1:B:42:VAL:CG1	1:B:42:VAL:HG22	1.64	1.11
1:C:1050:MET:HG3	1:C:1051:SER:N	1.56	1.11
1:A:304:LYS:CE	1:A:304:LYS:HG3	1.67	1.11
1:C:231:ILE:HG21	1:C:231:ILE:HD12	1.26	1.10
1:A:231:ILE:CG2	1:A:231:ILE:CD1	2.26	1.10
1:A:280:ASN:OD1	1:A:284:THR:OG1	1.68	1.09
2:D:71:GLN:HG2	2:D:78:VAL:HG12	1.34	1.09
1:A:564:GLN:HG2	1:B:41:LYS:HG2	1.34	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:LYS:NZ	1:C:981:LEU:O	1.84	1.09
1:A:231:ILE:HG21	1:A:231:ILE:HD12	1.26	1.09
1:B:280:ASN:OD1	1:B:284:THR:OG1	1.68	1.08
1:B:563:GLN:CA	1:C:41:LYS:CG	2.31	1.08
1:A:1101:HIS:HE1	4:A:1312:NAG:O5	1.36	1.08
1:C:280:ASN:OD1	1:C:284:THR:OG1	1.68	1.08
1:B:699:LEU:HD11	1:C:872:GLN:HE22	1.03	1.07
1:A:1130:ILE:HD11	1:B:920:GLN:OE1	1.53	1.07
1:C:452:LEU:CD1	2:D:33:ARG:CG	2.33	1.07
1:A:41:LYS:C	1:A:41:LYS:CB	2.23	1.06
1:A:304:LYS:CG	1:A:304:LYS:HD2	1.55	1.06
1:A:794:ILE:HG13	1:A:796:ASP:OD2	1.55	1.06
1:B:563:GLN:HA	1:C:41:LYS:HG2	1.33	1.06
1:B:611:LEU:CD2	1:B:611:LEU:CB	2.33	1.06
1:C:41:LYS:C	1:C:41:LYS:CB	2.24	1.06
1:C:651:ILE:HG21	1:C:651:ILE:HG12	1.37	1.06
1:B:41:LYS:C	1:B:41:LYS:CB	2.24	1.06
1:B:794:ILE:HG13	1:B:796:ASP:OD2	1.55	1.06
1:A:611:LEU:CD2	1:A:611:LEU:CB	2.33	1.06
1:C:651:ILE:CG2	1:C:651:ILE:HG12	1.86	1.06
1:C:611:LEU:CD2	1:C:611:LEU:CB	2.33	1.05
1:C:231:ILE:CG2	1:C:231:ILE:CA	2.34	1.05
1:C:304:LYS:CG	1:C:304:LYS:HD2	1.55	1.05
1:B:287:ASP:OD2	1:B:288:ALA:N	1.89	1.05
1:B:563:GLN:N	1:C:41:LYS:CG	2.19	1.05
1:C:794:ILE:HG13	1:C:796:ASP:OD2	1.55	1.05
1:C:304:LYS:CG	1:C:304:LYS:HD3	1.55	1.04
1:B:231:ILE:CG2	1:B:231:ILE:CD1	2.26	1.04
1:C:287:ASP:OD2	1:C:288:ALA:N	1.89	1.04
1:A:651:ILE:HG21	1:A:651:ILE:HG12	1.37	1.04
1:B:651:ILE:CG2	1:B:651:ILE:HG12	1.86	1.04
1:A:1050:MET:HG3	1:A:1051:SER:N	1.56	1.04
1:B:231:ILE:CG2	1:B:231:ILE:CA	2.34	1.04
1:A:133:PHE:CD1	1:A:160:TYR:HB2	1.93	1.03
1:A:1101:HIS:CE1	4:A:1312:NAG:O5	2.11	1.03
1:B:304:LYS:CG	1:B:304:LYS:HD2	1.55	1.03
1:A:41:LYS:HG2	1:C:562:PHE:O	1.56	1.03
1:A:1135:ASN:OD1	1:A:1136:THR:N	1.91	1.03
1:C:452:LEU:CD1	2:D:33:ARG:HG3	1.86	1.03
1:C:905:ARG:NH1	1:C:1049:LEU:O	1.92	1.03
1:A:231:ILE:CG2	1:A:231:ILE:CA	2.34	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:287:ASP:OD2	1:A:288:ALA:N	1.89	1.03
1:B:304:LYS:CE	1:B:304:LYS:HG3	1.66	1.03
1:B:651:ILE:HG12	1:B:651:ILE:HG21	1.37	1.03
1:B:1135:ASN:OD1	1:B:1136:THR:N	1.91	1.03
1:A:159:VAL:HG23	1:A:160:TYR:HD1	1.23	1.03
1:A:304:LYS:CG	1:A:304:LYS:HD3	1.55	1.03
1:A:651:ILE:CG2	1:A:651:ILE:HG12	1.86	1.03
1:B:304:LYS:CG	1:B:304:LYS:HD3	1.55	1.03
1:C:133:PHE:CD1	1:C:160:TYR:HB2	1.93	1.03
1:B:159:VAL:HG23	1:B:160:TYR:HD1	1.22	1.02
1:B:905:ARG:NH1	1:B:1049:LEU:O	1.92	1.02
1:C:231:ILE:CG2	1:C:231:ILE:CD1	2.26	1.02
1:B:133:PHE:CD1	1:B:160:TYR:HB2	1.93	1.02
1:B:563:GLN:CB	1:C:41:LYS:CG	2.36	1.02
1:B:1050:MET:HG3	1:B:1051:SER:N	1.56	1.02
1:C:1135:ASN:OD1	1:C:1136:THR:N	1.91	1.02
1:A:905:ARG:NH1	1:A:1049:LEU:O	1.92	1.02
1:C:159:VAL:HG23	1:C:160:TYR:HD1	1.23	1.01
1:C:560:LEU:O	1:C:577:ARG:NH2	1.94	1.01
1:C:1071:GLN:NE2	1:C:1071:GLN:HG3	1.75	1.01
1:A:562:PHE:O	1:B:41:LYS:CG	2.09	1.01
1:B:454:ARG:NH1	1:B:456:PHE:O	1.93	1.01
1:B:699:LEU:CD1	1:C:872:GLN:CD	2.29	1.01
1:C:231:ILE:CG1	1:C:231:ILE:HG21	1.69	1.01
1:C:80:ASP:OD2	1:C:82:PRO:HD2	1.61	1.00
1:B:80:ASP:OD2	1:B:82:PRO:HD2	1.61	1.00
1:B:231:ILE:CG1	1:B:231:ILE:HG21	1.69	1.00
1:C:231:ILE:CG2	1:C:231:ILE:HD12	1.88	1.00
1:A:80:ASP:OD2	1:A:82:PRO:HD2	1.61	1.00
1:C:304:LYS:CE	1:C:304:LYS:HG3	1.67	1.00
1:C:452:LEU:HD13	2:D:33:ARG:CG	1.92	1.00
1:C:452:LEU:HD12	2:D:33:ARG:HG3	1.42	1.00
1:C:452:LEU:HD13	2:D:33:ARG:HD3	1.02	1.00
1:B:124:THR:HG23	4:B:1301:NAG:H83	1.37	0.99
1:B:1071:GLN:NE2	1:B:1071:GLN:HG3	1.75	0.99
1:B:705:VAL:HG21	1:C:883:THR:HG21	1.43	0.99
1:A:1071:GLN:NE2	1:A:1071:GLN:HG3	1.75	0.98
1:A:738:CYS:SG	1:A:764:ASN:ND2	2.37	0.98
1:A:41:LYS:HG3	1:C:562:PHE:O	1.61	0.98
1:B:231:ILE:CG2	1:B:231:ILE:HD12	1.88	0.98
1:C:651:ILE:HB	1:C:651:ILE:HD13	1.44	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:699:LEU:CD1	1:C:872:GLN:NE2	2.26	0.97
1:B:738:CYS:SG	1:B:764:ASN:ND2	2.36	0.97
1:B:42:VAL:CG1	1:B:42:VAL:CA	2.42	0.97
1:B:231:ILE:HG21	1:B:231:ILE:HG13	1.29	0.97
1:C:738:CYS:SG	1:C:764:ASN:ND2	2.37	0.97
1:B:563:GLN:HB3	1:C:41:LYS:HG2	1.47	0.97
1:A:651:ILE:HB	1:A:651:ILE:HD13	1.44	0.96
1:B:905:ARG:HH22	1:B:1050:MET:CE	1.78	0.96
1:B:153:MET:CE	4:B:1302:NAG:O4	2.13	0.96
1:C:905:ARG:HH22	1:C:1050:MET:CE	1.78	0.96
1:A:231:ILE:HG21	1:A:231:ILE:HG13	1.29	0.96
1:C:452:LEU:CD1	2:D:33:ARG:HD3	1.96	0.96
1:A:905:ARG:HH22	1:A:1050:MET:CE	1.78	0.96
1:B:563:GLN:N	1:C:41:LYS:HG3	1.81	0.95
1:A:905:ARG:HH22	1:A:1050:MET:HE1	1.31	0.95
1:A:231:ILE:CG2	1:A:231:ILE:HD12	1.89	0.95
1:B:651:ILE:HB	1:B:651:ILE:HD13	1.44	0.95
1:A:231:ILE:CG1	1:A:231:ILE:HG21	1.69	0.95
1:C:651:ILE:CG1	1:C:651:ILE:HG21	1.90	0.95
1:C:452:LEU:CD1	2:D:33:ARG:CD	2.44	0.94
1:C:449:TYR:C	2:D:53:ALA:HB2	1.87	0.94
1:A:287:ASP:OD1	1:A:306:PHE:CE1	2.21	0.94
1:B:287:ASP:OD1	1:B:306:PHE:CE1	2.21	0.94
1:B:699:LEU:HD13	1:C:872:GLN:CD	1.85	0.94
1:A:1101:HIS:CE1	4:A:1312:NAG:C6	2.50	0.94
1:B:563:GLN:HB3	1:C:41:LYS:CG	1.98	0.94
1:C:124:THR:N	3:G:1:NAG:H81	1.83	0.94
1:C:231:ILE:HG21	1:C:231:ILE:HG13	1.29	0.94
1:B:1083:HIS:ND1	1:B:1084:ASP:OD1	2.01	0.94
1:C:287:ASP:OD1	1:C:306:PHE:CE1	2.21	0.94
1:A:1101:HIS:HE1	4:A:1312:NAG:C5	1.75	0.93
1:B:563:GLN:NE2	1:C:41:LYS:O	2.01	0.93
1:A:1083:HIS:ND1	1:A:1084:ASP:OD1	2.01	0.93
1:C:1083:HIS:ND1	1:C:1084:ASP:OD1	2.01	0.93
1:A:41:LYS:O	1:A:41:LYS:HB2	1.69	0.93
1:C:41:LYS:O	1:C:41:LYS:HB2	1.69	0.93
1:A:304:LYS:CG	1:A:304:LYS:HE2	2.00	0.92
1:B:41:LYS:O	1:B:41:LYS:HB2	1.69	0.92
1:C:717:ASN:HB2	1:C:1071:GLN:OE1	1.70	0.92
1:A:44:ARG:HH22	1:C:567:ARG:HB2	1.28	0.92
1:B:304:LYS:CG	1:B:304:LYS:HE2	2.00	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:MET:HE2	4:B:1302:NAG:C4	2.00	0.92
1:C:331:ASN:O	1:C:332:ILE:HG22	1.70	0.92
1:B:699:LEU:CD1	1:C:872:GLN:HE22	1.83	0.92
1:B:717:ASN:HB2	1:B:1071:GLN:OE1	1.69	0.91
1:A:304:LYS:CD	1:A:304:LYS:HG2	1.40	0.91
1:C:304:LYS:CD	1:C:304:LYS:HG3	1.40	0.91
1:C:304:LYS:CG	1:C:304:LYS:HE2	2.00	0.91
1:A:304:LYS:CD	1:A:304:LYS:HG3	1.40	0.91
1:A:717:ASN:HB2	1:A:1071:GLN:OE1	1.69	0.91
1:B:153:MET:HE2	4:B:1302:NAG:O4	1.71	0.91
1:A:44:ARG:HH22	1:C:567:ARG:CB	1.83	0.91
1:C:450:ASN:O	2:D:33:ARG:HG3	1.69	0.91
1:B:41:LYS:CB	1:B:41:LYS:HE3	2.01	0.91
1:A:905:ARG:NH2	1:A:1050:MET:HE1	1.86	0.90
1:B:480:CYS:O	1:B:482:GLY:N	2.04	0.90
1:C:304:LYS:CD	1:C:304:LYS:HG2	1.40	0.90
1:C:41:LYS:CB	1:C:41:LYS:HE3	2.01	0.90
1:C:350:VAL:HG21	1:C:453:TYR:CD1	2.06	0.90
1:A:41:LYS:HG3	1:C:562:PHE:C	1.91	0.90
1:B:206:LYS:HD3	1:B:224:GLU:OE2	1.71	0.90
1:C:37:TYR:OH	1:C:53:ASP:OD1	1.89	0.90
1:A:29:THR:HG22	1:A:64:TRP:CE3	2.07	0.90
1:B:126:VAL:N	1:B:172:SER:OG	2.05	0.90
1:C:29:THR:HG22	1:C:64:TRP:CE3	2.07	0.90
1:C:41:LYS:CG	1:C:41:LYS:HE3	2.01	0.90
1:B:304:LYS:CD	1:B:304:LYS:HG3	1.40	0.90
1:C:206:LYS:HD3	1:C:224:GLU:OE2	1.72	0.90
1:A:41:LYS:CB	1:A:41:LYS:HE3	2.01	0.89
1:B:304:LYS:CD	1:B:304:LYS:HG2	1.40	0.89
1:A:304:LYS:CG	1:A:304:LYS:CD	0.90	0.89
1:C:304:LYS:CG	1:C:304:LYS:CD	0.90	0.89
1:C:611:LEU:HD13	1:C:611:LEU:HD21	1.55	0.89
1:B:29:THR:HG22	1:B:64:TRP:CE3	2.07	0.89
1:B:304:LYS:CG	1:B:304:LYS:CD	0.90	0.89
1:C:126:VAL:N	1:C:172:SER:OG	2.05	0.89
1:A:37:TYR:OH	1:A:53:ASP:OD1	1.89	0.89
1:A:611:LEU:HD13	1:A:611:LEU:HD22	1.54	0.89
1:A:206:LYS:HD3	1:A:224:GLU:OE2	1.72	0.89
1:B:37:TYR:OH	1:B:53:ASP:OD1	1.89	0.89
1:B:611:LEU:HD13	1:B:611:LEU:HD21	1.54	0.89
1:A:1049:LEU:HB2	1:A:1065:VAL:HG12	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:126:VAL:N	1:A:172:SER:OG	2.05	0.88
1:B:611:LEU:HD13	1:B:611:LEU:HD22	1.54	0.88
1:B:905:ARG:HH22	1:B:1050:MET:HE1	1.38	0.88
1:B:1049:LEU:HB2	1:B:1065:VAL:HG12	1.55	0.88
1:C:111:ASP:HB3	1:C:134:GLN:OE1	1.73	0.88
1:A:231:ILE:CG2	1:A:231:ILE:HA	2.03	0.88
1:A:111:ASP:HB3	1:A:134:GLN:OE1	1.73	0.88
1:B:231:ILE:CG2	1:B:231:ILE:HA	2.03	0.88
1:B:111:ASP:HB3	1:B:134:GLN:OE1	1.73	0.88
1:C:1049:LEU:HB2	1:C:1065:VAL:HG12	1.55	0.88
1:A:41:LYS:CG	1:A:41:LYS:HE3	2.01	0.88
1:C:905:ARG:HH22	1:C:1050:MET:HE1	1.39	0.88
1:A:792:PRO:O	1:A:795:LYS:NZ	2.07	0.87
1:B:41:LYS:CG	1:B:41:LYS:HE3	2.01	0.87
1:A:565:PHE:O	1:B:43:PHE:N	2.05	0.87
1:A:41:LYS:C	1:A:41:LYS:HB2	1.95	0.87
1:B:916:LEU:HD12	1:B:923:ILE:HD12	1.55	0.87
1:B:951:VAL:O	1:B:955:ASN:ND2	2.08	0.87
1:A:159:VAL:HG11	1:A:241:LEU:HD21	1.56	0.87
1:B:41:LYS:C	1:B:41:LYS:HB2	1.95	0.87
1:C:159:VAL:HG11	1:C:241:LEU:HD21	1.56	0.87
1:C:611:LEU:HD13	1:C:611:LEU:HD22	1.54	0.87
1:C:916:LEU:HD12	1:C:923:ILE:HD12	1.55	0.87
1:A:916:LEU:HD12	1:A:923:ILE:HD12	1.55	0.87
1:C:951:VAL:O	1:C:955:ASN:ND2	2.08	0.87
1:B:444:LYS:NZ	1:B:447:GLY:O	2.08	0.87
1:B:462:LYS:NZ	1:B:463:PRO:O	2.07	0.87
1:B:792:PRO:O	1:B:795:LYS:NZ	2.07	0.87
1:C:231:ILE:CG2	1:C:231:ILE:HA	2.03	0.87
1:C:651:ILE:CG2	1:C:651:ILE:CA	2.53	0.86
1:B:651:ILE:CG2	1:B:651:ILE:CA	2.53	0.86
1:C:792:PRO:O	1:C:795:LYS:NZ	2.07	0.86
1:A:111:ASP:CB	1:A:134:GLN:OE1	2.24	0.86
1:A:611:LEU:HD13	1:A:611:LEU:HD21	1.54	0.86
1:A:651:ILE:CG2	1:A:651:ILE:CA	2.53	0.86
1:C:120:VAL:HG13	1:C:127:VAL:HG23	1.57	0.86
1:A:120:VAL:HG13	1:A:127:VAL:HG23	1.57	0.86
1:A:304:LYS:HE2	1:A:304:LYS:HG2	1.55	0.86
1:B:111:ASP:CB	1:B:134:GLN:OE1	2.24	0.86
1:A:951:VAL:O	1:A:955:ASN:ND2	2.08	0.86
1:C:111:ASP:CB	1:C:134:GLN:OE1	2.24	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:159:VAL:HG11	1:B:241:LEU:HD21	1.56	0.85
1:C:41:LYS:C	1:C:41:LYS:HB2	1.95	0.85
1:B:42:VAL:HG11	1:B:42:VAL:HG22	1.43	0.85
1:B:120:VAL:HG13	1:B:127:VAL:HG23	1.57	0.85
1:B:563:GLN:N	1:C:41:LYS:HG2	1.87	0.84
1:C:651:ILE:HB	1:C:651:ILE:HD12	1.59	0.84
1:A:318:PHE:N	1:A:593:GLY:O	2.11	0.84
1:B:78:ARG:HH21	1:B:80:ASP:CA	1.90	0.84
1:C:78:ARG:HH21	1:C:80:ASP:CA	1.90	0.84
1:A:78:ARG:HH21	1:A:80:ASP:CA	1.90	0.84
1:C:937:SER:O	1:C:941:THR:N	2.11	0.84
1:B:55:PHE:O	1:B:271:GLN:N	2.11	0.84
1:B:304:LYS:HE2	1:B:304:LYS:HG2	1.56	0.84
1:A:353:TRP:O	1:A:466:ARG:NH1	2.11	0.83
1:A:773:GLU:O	1:A:777:ASN:OD1	1.96	0.83
1:C:951:VAL:HA	1:C:954:GLN:HG3	1.59	0.83
1:A:651:ILE:CG1	1:A:651:ILE:HG21	1.90	0.83
1:B:773:GLU:O	1:B:777:ASN:OD1	1.96	0.83
3:G:1:NAG:O3	3:G:2:NAG:O5	1.95	0.83
1:B:937:SER:O	1:B:941:THR:N	2.10	0.83
1:B:1049:LEU:HD21	1:B:1067:TYR:HB2	1.60	0.83
1:C:58:PHE:N	1:C:290:ASP:OD2	2.11	0.83
1:C:318:PHE:N	1:C:593:GLY:O	2.11	0.83
1:C:1049:LEU:HD21	1:C:1067:TYR:HB2	1.60	0.83
1:A:1049:LEU:HD21	1:A:1067:TYR:HB2	1.60	0.83
1:C:55:PHE:O	1:C:271:GLN:N	2.11	0.83
1:A:699:LEU:HD11	1:B:872:GLN:HE22	1.42	0.83
1:C:124:THR:H	3:G:1:NAG:H81	1.41	0.83
1:C:773:GLU:O	1:C:777:ASN:OD1	1.96	0.83
1:A:422:ASN:OD1	1:A:454:ARG:N	2.11	0.83
1:B:318:PHE:N	1:B:593:GLY:O	2.11	0.83
1:C:304:LYS:HE2	1:C:304:LYS:HG2	1.55	0.83
1:B:905:ARG:NH2	1:B:1050:MET:CE	2.42	0.83
1:C:120:VAL:CG1	1:C:127:VAL:HG23	2.09	0.83
1:C:905:ARG:NH2	1:C:1050:MET:HE1	1.93	0.83
1:A:559:PHE:CD1	1:B:43:PHE:CZ	2.67	0.82
1:B:58:PHE:N	1:B:290:ASP:OD2	2.11	0.82
1:A:937:SER:O	1:A:941:THR:N	2.11	0.82
1:A:58:PHE:N	1:A:290:ASP:OD2	2.11	0.82
1:A:120:VAL:CG1	1:A:127:VAL:HG23	2.09	0.82
1:B:905:ARG:NH2	1:B:1050:MET:HE1	1.93	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:529:LYS:O	1:C:529:LYS:NZ	2.13	0.82
1:A:318:PHE:CZ	1:A:615:VAL:HG11	2.15	0.82
1:A:730:SER:OG	1:A:1058:HIS:ND1	2.13	0.82
1:A:951:VAL:HA	1:A:954:GLN:HG3	1.59	0.82
1:C:457:ARG:NH1	1:C:471:GLU:O	2.12	0.82
1:C:905:ARG:NH2	1:C:1050:MET:CE	2.42	0.82
1:A:405:ASP:O	1:A:409:GLN:NE2	2.13	0.82
1:A:350:VAL:HG21	1:A:418:ILE:HD12	1.62	0.82
1:C:318:PHE:CZ	1:C:615:VAL:HG11	2.15	0.81
1:B:120:VAL:CG1	1:B:127:VAL:HG23	2.09	0.81
1:B:1101:HIS:HE1	4:B:1312:NAG:O5	1.64	0.81
1:A:762:GLN:HA	1:A:765:ARG:HE	1.45	0.81
1:B:730:SER:OG	1:B:1058:HIS:ND1	2.13	0.81
1:B:951:VAL:HA	1:B:954:GLN:HG3	1.59	0.81
1:B:1073:LYS:NZ	1:B:1073:LYS:CD	2.44	0.81
4:B:1306:NAG:O7	4:B:1306:NAG:O3	1.98	0.81
1:C:46:SER:N	1:C:280:ASN:O	2.14	0.81
1:C:490:PHE:CE2	2:D:105:THR:HA	2.16	0.81
1:C:771:ALA:HA	1:C:774:GLN:OE1	1.81	0.81
1:C:1050:MET:HG3	1:C:1051:SER:H	1.46	0.81
1:B:318:PHE:CZ	1:B:615:VAL:HG11	2.15	0.81
1:B:444:LYS:O	1:B:498:GLN:NE2	2.14	0.81
1:A:1073:LYS:NZ	1:A:1073:LYS:CD	2.44	0.81
1:B:771:ALA:HA	1:B:774:GLN:OE1	1.81	0.81
1:C:498:GLN:O	1:C:501:ASN:ND2	2.14	0.81
1:B:46:SER:N	1:B:280:ASN:O	2.14	0.80
1:B:651:ILE:HB	1:B:651:ILE:HD12	1.59	0.80
1:C:794:ILE:CG1	1:C:796:ASP:OD2	2.29	0.80
2:D:33:ARG:N	2:D:98:SER:OG	2.12	0.80
1:A:564:GLN:CG	1:B:41:LYS:HG2	2.11	0.80
1:A:721:SER:OG	1:A:1066:THR:O	1.99	0.80
1:B:762:GLN:HA	1:B:765:ARG:HE	1.45	0.80
1:A:771:ALA:HA	1:A:774:GLN:OE1	1.81	0.80
1:B:1130:ILE:CD1	1:C:920:GLN:OE1	2.21	0.80
1:C:330:PRO:HA	1:C:580:GLN:HG3	1.63	0.80
1:C:730:SER:OG	1:C:1058:HIS:ND1	2.13	0.80
1:A:703:ASN:OD1	1:B:787:GLN:HG3	1.82	0.80
1:A:55:PHE:O	1:A:271:GLN:N	2.11	0.80
1:B:964:LYS:O	1:B:968:SER:OG	2.00	0.80
1:C:404:GLY:N	1:C:506:GLN:O	2.15	0.80
1:C:1073:LYS:NZ	1:C:1073:LYS:CD	2.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:964:LYS:O	1:A:968:SER:OG	2.00	0.80
1:B:794:ILE:CG1	1:B:796:ASP:OD2	2.29	0.80
1:B:721:SER:OG	1:B:1066:THR:O	1.99	0.79
1:C:304:LYS:HG3	1:C:304:LYS:HE3	1.64	0.79
1:C:330:PRO:HA	1:C:580:GLN:CG	2.12	0.79
1:A:349:SER:OG	1:A:452:LEU:O	1.99	0.79
1:A:553:THR:O	1:A:586:ASP:N	2.15	0.79
1:B:85:PRO:HA	1:B:237:ARG:HA	1.63	0.79
1:C:721:SER:OG	1:C:1066:THR:O	1.99	0.79
1:C:762:GLN:HA	1:C:765:ARG:HE	1.45	0.79
1:B:304:LYS:HG3	1:B:304:LYS:HE3	1.64	0.79
1:A:46:SER:N	1:A:280:ASN:O	2.14	0.79
1:A:794:ILE:CG1	1:A:796:ASP:OD2	2.29	0.79
1:A:133:PHE:CE1	1:A:160:TYR:HD2	2.01	0.79
1:B:708:SER:OG	1:B:710:ASN:OD1	2.00	0.79
1:C:424:LYS:HB2	1:C:461:LEU:HD23	1.64	0.79
1:C:566:GLY:O	1:C:574:ASP:N	2.15	0.79
1:A:1050:MET:HG3	1:A:1051:SER:H	1.46	0.79
1:B:281:GLU:OE1	4:B:1304:NAG:C7	2.30	0.79
1:B:1050:MET:HG3	1:B:1051:SER:H	1.46	0.79
1:C:85:PRO:HA	1:C:237:ARG:HA	1.63	0.79
1:C:159:VAL:HG23	1:C:160:TYR:CD1	2.14	0.79
1:A:905:ARG:NH2	1:A:1050:MET:CE	2.42	0.79
1:B:133:PHE:CE1	1:B:160:TYR:HD2	2.01	0.79
1:A:1101:HIS:CE1	4:A:1312:NAG:H5	2.18	0.78
1:B:41:LYS:CE	1:B:41:LYS:CB	2.61	0.78
1:A:496:GLY:O	1:A:498:GLN:NE2	2.17	0.78
1:B:947:LYS:O	1:B:951:VAL:HG23	1.84	0.78
1:C:644:GLN:NE2	4:C:1305:NAG:O7	2.16	0.78
1:A:41:LYS:CE	1:A:41:LYS:CB	2.61	0.78
1:A:165:ASN:ND2	4:A:1302:NAG:H2	1.99	0.78
1:C:41:LYS:CE	1:C:41:LYS:HA	2.14	0.78
1:A:611:LEU:CD1	1:A:611:LEU:HD21	2.11	0.78
1:C:964:LYS:O	1:C:968:SER:OG	2.00	0.78
1:C:388:ASN:O	1:C:528:LYS:NZ	2.13	0.78
1:A:304:LYS:CE	1:A:304:LYS:HG2	1.82	0.78
1:A:661:GLU:O	1:A:695:TYR:OH	2.02	0.78
1:C:143:VAL:N	1:C:244:LEU:O	2.17	0.78
1:A:85:PRO:HA	1:A:237:ARG:HA	1.63	0.78
2:D:12:VAL:HG21	2:D:18:LEU:HG	1.65	0.78
1:C:41:LYS:CE	1:C:41:LYS:CB	2.61	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:661:GLU:O	1:C:695:TYR:OH	2.02	0.78
1:B:562:PHE:CE2	1:C:225:PRO:HG2	2.18	0.77
1:C:947:LYS:O	1:C:951:VAL:HG23	1.84	0.77
1:A:143:VAL:N	1:A:244:LEU:O	2.17	0.77
1:B:133:PHE:CG	1:B:160:TYR:HB2	2.20	0.77
1:A:41:LYS:CE	1:A:41:LYS:HA	2.14	0.77
1:C:111:ASP:HA	1:C:134:GLN:OE1	1.85	0.77
1:A:37:TYR:HD1	1:A:55:PHE:CZ	2.03	0.77
1:B:111:ASP:HA	1:B:134:GLN:OE1	1.85	0.77
1:C:127:VAL:HG11	3:G:1:NAG:O5	1.84	0.77
1:B:143:VAL:N	1:B:244:LEU:O	2.17	0.77
1:B:159:VAL:HG23	1:B:160:TYR:CD1	2.14	0.77
1:C:666:ILE:HD12	1:C:670:ILE:HG22	1.66	0.77
1:A:408:ARG:O	1:A:414:GLN:NE2	2.17	0.77
1:A:38:TYR:O	1:A:204:TYR:OH	2.01	0.77
1:A:304:LYS:HG3	1:A:304:LYS:HE3	1.64	0.77
1:A:651:ILE:HB	1:A:651:ILE:HD12	1.59	0.77
1:B:37:TYR:HD1	1:B:55:PHE:CZ	2.03	0.77
1:B:41:LYS:CE	1:B:41:LYS:HA	2.14	0.77
1:C:133:PHE:CE1	1:C:160:TYR:HD2	2.01	0.77
1:C:563:GLN:O	1:C:577:ARG:NE	2.18	0.77
1:A:106:PHE:HD1	1:A:238:PHE:HB2	1.50	0.77
1:A:111:ASP:O	1:A:134:GLN:NE2	2.18	0.77
1:A:133:PHE:CG	1:A:160:TYR:HB2	2.20	0.77
1:B:111:ASP:O	1:B:134:GLN:NE2	2.18	0.77
1:A:947:LYS:O	1:A:951:VAL:HG23	1.84	0.76
1:B:133:PHE:CE1	1:B:160:TYR:CD2	2.73	0.76
1:B:557:LYS:HB2	1:C:43:PHE:CE2	2.20	0.76
1:C:37:TYR:HD1	1:C:55:PHE:CZ	2.03	0.76
1:B:666:ILE:HD12	1:B:670:ILE:HG22	1.66	0.76
1:C:133:PHE:CE1	1:C:160:TYR:CD2	2.73	0.76
1:C:453:TYR:CZ	1:C:455:LEU:HG	2.20	0.76
1:A:111:ASP:HA	1:A:134:GLN:OE1	1.85	0.76
1:B:948:LEU:CD1	1:B:948:LEU:HG	2.13	0.76
1:A:133:PHE:CE1	1:A:160:TYR:CD2	2.73	0.76
1:A:1085:GLY:O	1:A:1086:LYS:HD2	1.86	0.76
1:B:1085:GLY:O	1:B:1086:LYS:HD2	1.86	0.76
1:C:106:PHE:HD1	1:C:238:PHE:HB2	1.50	0.76
1:C:350:VAL:HG21	1:C:453:TYR:HD1	1.50	0.76
1:B:304:LYS:CE	1:B:304:LYS:HG2	1.83	0.76
1:B:557:LYS:HB2	1:C:43:PHE:CZ	2.21	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:111:ASP:O	1:C:134:GLN:NE2	2.18	0.76
1:C:133:PHE:CG	1:C:160:TYR:HB2	2.20	0.76
1:C:537:LYS:NZ	1:C:538:CYS:O	2.16	0.76
1:B:106:PHE:HD1	1:B:238:PHE:HB2	1.50	0.76
1:A:666:ILE:HD12	1:A:670:ILE:HG22	1.66	0.76
2:D:67:LEU:HD11	2:D:80:LEU:HD11	1.68	0.76
1:A:502:GLY:O	1:A:506:GLN:N	2.17	0.76
1:C:1085:GLY:O	1:C:1086:LYS:HD2	1.86	0.76
1:B:109:THR:O	1:B:110:LEU:HD23	1.86	0.76
1:C:38:TYR:O	1:C:204:TYR:OH	2.01	0.76
1:C:1083:HIS:HD1	1:C:1084:ASP:CG	1.89	0.76
1:A:920:GLN:HA	1:A:923:ILE:HG13	1.68	0.75
1:B:661:GLU:O	1:B:695:TYR:OH	2.02	0.75
1:B:1083:HIS:HD1	1:B:1084:ASP:CG	1.89	0.75
1:A:44:ARG:NH2	1:C:567:ARG:CB	2.41	0.75
1:C:450:ASN:O	2:D:33:ARG:CG	2.34	0.75
1:C:920:GLN:HA	1:C:923:ILE:HG13	1.68	0.75
1:A:723:THR:O	1:A:1064:HIS:N	2.20	0.75
1:C:80:ASP:OD2	1:C:82:PRO:CD	2.35	0.75
1:A:109:THR:O	1:A:110:LEU:HD23	1.86	0.75
1:A:866:THR:O	1:A:869:MET:HG2	1.86	0.75
1:B:31:SER:O	1:B:59:PHE:N	2.20	0.75
1:B:866:THR:O	1:B:869:MET:HG2	1.86	0.75
1:A:352:ALA:O	1:A:466:ARG:NH2	2.20	0.75
1:C:802:PHE:CD2	1:C:805:ILE:HD11	2.22	0.75
1:A:1083:HIS:HD1	1:A:1084:ASP:CG	1.89	0.74
1:B:38:TYR:O	1:B:204:TYR:OH	2.01	0.74
1:B:802:PHE:CD2	1:B:805:ILE:HD11	2.22	0.74
1:B:773:GLU:OE2	1:B:777:ASN:ND2	2.20	0.74
1:A:31:SER:O	1:A:59:PHE:N	2.20	0.74
1:A:802:PHE:CD2	1:A:805:ILE:HD11	2.22	0.74
1:C:109:THR:O	1:C:110:LEU:HD23	1.86	0.74
1:C:1005:GLN:OE1	1:C:1005:GLN:C	2.26	0.74
1:A:430:THR:O	1:A:515:PHE:N	2.20	0.74
1:A:551:VAL:HG13	1:A:588:THR:OG1	1.87	0.74
1:B:1005:GLN:C	1:B:1005:GLN:OE1	2.26	0.74
1:C:31:SER:O	1:C:59:PHE:N	2.20	0.74
1:C:490:PHE:CE2	1:C:492:LEU:HD11	2.22	0.74
1:A:331:ASN:OD1	4:A:1303:NAG:N2	2.21	0.74
1:B:920:GLN:HA	1:B:923:ILE:HG13	1.68	0.74
1:A:328:ARG:NH2	1:A:531:THR:O	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:80:ASP:OD2	1:B:82:PRO:CD	2.35	0.74
1:C:106:PHE:O	1:C:116:SER:OG	2.05	0.74
1:A:80:ASP:OD2	1:A:82:PRO:CD	2.35	0.74
1:A:159:VAL:HG23	1:A:160:TYR:CD1	2.14	0.74
1:A:433:VAL:O	1:A:434:ILE:HD13	1.87	0.74
1:C:330:PRO:CA	1:C:580:GLN:HG3	2.17	0.73
1:A:350:VAL:CG2	1:A:418:ILE:HG23	2.18	0.73
1:B:325:SER:OG	1:B:540:ASN:O	2.04	0.73
1:C:41:LYS:C	1:C:41:LYS:N	2.41	0.73
1:C:444:LYS:HZ1	2:D:53:ALA:HB1	1.52	0.73
1:A:28:TYR:CE1	1:A:63:THR:HG22	2.24	0.73
1:A:361:CYS:O	1:A:524:VAL:HG23	1.88	0.73
1:C:28:TYR:CE1	1:C:63:THR:HG22	2.24	0.73
1:B:723:THR:O	1:B:1064:HIS:N	2.20	0.73
1:C:559:PHE:CD1	1:C:584:ILE:HG21	2.24	0.73
1:A:1005:GLN:C	1:A:1005:GLN:OE1	2.26	0.73
1:A:773:GLU:OE2	1:A:777:ASN:ND2	2.20	0.73
1:C:117:LEU:HD11	1:C:128:ILE:CG2	2.19	0.73
1:C:773:GLU:OE2	1:C:777:ASN:ND2	2.20	0.73
1:C:866:THR:O	1:C:869:MET:HG2	1.86	0.73
1:A:1050:MET:O	1:A:1065:VAL:N	2.14	0.73
1:B:611:LEU:CD2	1:B:611:LEU:HB3	2.18	0.73
1:B:117:LEU:HD11	1:B:128:ILE:CG2	2.19	0.73
1:B:375:SER:N	1:B:435:ALA:O	2.22	0.73
1:C:723:THR:O	1:C:1064:HIS:N	2.20	0.73
1:B:437:ASN:ND2	1:B:507:PRO:O	2.22	0.73
1:A:106:PHE:O	1:A:116:SER:OG	2.05	0.73
1:C:502:GLY:O	1:C:506:GLN:N	2.22	0.73
1:B:616:ASN:O	1:B:619:GLU:OE2	2.07	0.72
1:A:41:LYS:CA	1:A:41:LYS:HE3	2.19	0.72
1:B:41:LYS:CA	1:B:41:LYS:HE3	2.20	0.72
1:B:41:LYS:C	1:B:41:LYS:N	2.41	0.72
1:C:37:TYR:CD1	1:C:55:PHE:CZ	2.78	0.72
1:B:1089:PHE:N	1:B:1121:PHE:O	2.20	0.72
1:A:37:TYR:CD1	1:A:55:PHE:CZ	2.78	0.72
1:C:41:LYS:CA	1:C:41:LYS:HE3	2.20	0.72
1:A:29:THR:HB	1:A:216:LEU:HD11	1.72	0.72
1:A:117:LEU:HD11	1:A:128:ILE:CG2	2.19	0.72
1:B:28:TYR:CE1	1:B:63:THR:HG22	2.24	0.72
1:A:76:THR:OG1	1:A:77:LYS:N	2.22	0.72
1:B:29:THR:HB	1:B:216:LEU:HD11	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:153:MET:HE1	4:B:1302:NAG:O4	1.90	0.72
1:C:579:PRO:HB2	1:C:580:GLN:NE2	2.05	0.72
1:A:41:LYS:C	1:A:41:LYS:N	2.41	0.72
1:B:1110:TYR:CE1	1:B:1112:PRO:HG3	2.25	0.72
1:C:922:LEU:HA	1:C:925:ASN:OD1	1.90	0.72
1:A:708:SER:OG	1:A:710:ASN:OD1	2.08	0.72
1:C:76:THR:OG1	1:C:77:LYS:N	2.22	0.72
1:C:77:LYS:NZ	1:C:258:TRP:O	2.15	0.72
1:C:350:VAL:HG21	1:C:453:TYR:CE1	2.24	0.72
1:C:616:ASN:O	1:C:619:GLU:OE2	2.07	0.72
1:B:492:LEU:H	1:B:492:LEU:HD12	1.54	0.72
1:B:922:LEU:HA	1:B:925:ASN:OD1	1.90	0.72
1:C:29:THR:HB	1:C:216:LEU:HD11	1.72	0.72
1:B:499:PRO:O	1:B:506:GLN:NE2	2.23	0.71
1:A:616:ASN:O	1:A:619:GLU:OE2	2.07	0.71
1:A:1110:TYR:CE1	1:A:1112:PRO:HG3	2.25	0.71
1:B:37:TYR:CD1	1:B:55:PHE:CZ	2.78	0.71
1:B:1089:PHE:CE1	1:C:914:ASN:HB3	2.25	0.71
1:B:1106:GLN:NE2	1:B:1109:PHE:HB3	2.05	0.71
1:A:922:LEU:HA	1:A:925:ASN:OD1	1.90	0.71
1:B:77:LYS:NZ	1:B:258:TRP:O	2.15	0.71
1:A:1089:PHE:N	1:A:1121:PHE:O	2.20	0.71
1:B:78:ARG:HH21	1:B:80:ASP:CB	2.04	0.71
1:C:1106:GLN:NE2	1:C:1109:PHE:HB3	2.05	0.71
1:A:1106:GLN:NE2	1:A:1109:PHE:HB3	2.05	0.71
1:B:544:ASN:ND2	4:B:1305:NAG:O6	2.23	0.71
1:B:577:ARG:NE	4:B:1305:NAG:O4	2.20	0.71
1:C:78:ARG:HH21	1:C:80:ASP:CB	2.04	0.71
1:C:78:ARG:HH21	1:C:80:ASP:HB2	1.56	0.71
1:C:1110:TYR:CE1	1:C:1112:PRO:HG3	2.25	0.71
1:A:78:ARG:HH21	1:A:80:ASP:HB2	1.56	0.71
1:A:611:LEU:CD2	1:A:611:LEU:HB3	2.18	0.71
1:C:187:LYS:HB3	1:C:210:ILE:O	1.91	0.71
1:A:78:ARG:HH21	1:A:80:ASP:CB	2.04	0.71
1:B:76:THR:OG1	1:B:77:LYS:N	2.22	0.71
1:A:187:LYS:HB3	1:A:210:ILE:O	1.91	0.71
1:A:567:ARG:HB2	1:B:44:ARG:NH2	2.06	0.71
1:B:44:ARG:HB3	1:B:279:TYR:CD2	2.26	0.71
1:C:40:ASP:OD2	1:C:42:VAL:N	2.22	0.71
1:C:44:ARG:HB3	1:C:279:TYR:CD2	2.26	0.71
1:C:404:GLY:O	1:C:407:VAL:HG22	1.90	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1089:PHE:N	1:C:1121:PHE:O	2.20	0.71
1:A:132:GLU:OE2	1:A:165:ASN:N	2.21	0.70
1:A:567:ARG:HB2	1:B:44:ARG:CZ	2.20	0.70
1:A:1073:LYS:HG3	1:A:1075:PHE:CZ	2.26	0.70
1:B:34:ARG:NH2	1:B:217:PRO:O	2.24	0.70
1:B:78:ARG:HH21	1:B:80:ASP:HA	1.56	0.70
1:B:562:PHE:CD2	1:C:41:LYS:HD3	2.27	0.70
1:C:651:ILE:CG2	1:C:651:ILE:HG13	2.18	0.70
1:C:17:ASN:HD21	3:H:1:NAG:H5	1.56	0.70
1:C:220:PHE:CE2	1:C:287:ASP:HA	2.26	0.70
1:B:187:LYS:HB3	1:B:210:ILE:O	1.91	0.70
1:C:453:TYR:HB3	1:C:494:SER:HA	1.74	0.70
1:B:78:ARG:HH21	1:B:80:ASP:HB2	1.56	0.70
2:D:33:ARG:NH2	2:D:58:TYR:OH	2.23	0.70
1:A:220:PHE:CE2	1:A:287:ASP:HA	2.26	0.70
1:C:323:THR:O	1:C:539:VAL:HG22	1.91	0.70
1:A:99:ASN:O	1:A:102:ARG:NE	2.23	0.70
1:A:570:ALA:HB1	1:B:963:VAL:HG11	1.73	0.70
1:A:699:LEU:HD13	1:B:872:GLN:OE1	1.91	0.70
1:C:34:ARG:NH2	1:C:217:PRO:O	2.24	0.70
1:C:132:GLU:OE2	1:C:165:ASN:N	2.21	0.70
1:A:722:VAL:HG22	1:A:1065:VAL:HG22	1.74	0.70
1:A:1085:GLY:C	1:A:1086:LYS:HD2	2.12	0.70
1:C:453:TYR:CE2	1:C:455:LEU:HG	2.26	0.70
1:C:1073:LYS:HG3	1:C:1075:PHE:CZ	2.26	0.70
1:B:40:ASP:OD2	1:B:42:VAL:N	2.22	0.70
1:B:1085:GLY:C	1:B:1086:LYS:HD2	2.12	0.70
1:C:611:LEU:CD2	1:C:611:LEU:HB3	2.18	0.70
1:A:733:LYS:HE2	1:A:861:LEU:HB3	1.73	0.69
1:B:220:PHE:CE2	1:B:287:ASP:HA	2.26	0.69
1:A:78:ARG:HH21	1:A:80:ASP:HA	1.56	0.69
1:A:559:PHE:CE1	1:A:584:ILE:HG13	2.27	0.69
1:A:948:LEU:CD1	1:A:948:LEU:HG	2.13	0.69
1:B:611:LEU:CD1	1:B:611:LEU:HD21	2.11	0.69
1:C:111:ASP:CA	1:C:134:GLN:OE1	2.40	0.69
1:A:702:GLU:OE1	1:A:702:GLU:N	2.24	0.69
1:B:651:ILE:CG2	1:B:651:ILE:HG13	2.18	0.69
1:C:733:LYS:HE2	1:C:861:LEU:HB3	1.73	0.69
1:A:44:ARG:HB3	1:A:279:TYR:CD2	2.26	0.69
1:A:189:LEU:HD11	1:A:191:GLU:CD	2.13	0.69
1:B:111:ASP:CA	1:B:134:GLN:OE1	2.40	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1073:LYS:HG3	1:B:1075:PHE:CZ	2.26	0.69
1:C:189:LEU:HD11	1:C:191:GLU:CD	2.12	0.69
1:A:563:GLN:O	1:A:577:ARG:NH1	2.25	0.69
1:C:78:ARG:HH21	1:C:80:ASP:HA	1.56	0.69
1:C:541:PHE:N	1:C:548:GLY:O	2.25	0.69
1:A:111:ASP:CA	1:A:134:GLN:OE1	2.40	0.69
1:B:733:LYS:HE2	1:B:861:LEU:HB3	1.73	0.69
1:A:34:ARG:NH2	1:A:217:PRO:O	2.24	0.69
1:A:77:LYS:NZ	1:A:258:TRP:O	2.15	0.69
1:A:618:THR:OG1	1:A:619:GLU:OE1	2.10	0.69
1:A:794:ILE:CD1	1:A:796:ASP:OD2	2.41	0.69
1:C:1050:MET:O	1:C:1065:VAL:N	2.14	0.69
1:C:1085:GLY:C	1:C:1086:LYS:HD2	2.12	0.69
1:A:41:LYS:CG	1:A:41:LYS:HE2	2.22	0.69
1:A:132:GLU:OE1	1:A:164:ASN:HB3	1.93	0.69
1:B:42:VAL:HG23	1:B:42:VAL:HG11	1.51	0.69
1:B:723:THR:N	1:B:1064:HIS:O	2.26	0.69
1:C:132:GLU:OE1	1:C:164:ASN:HB3	1.93	0.69
1:C:568:ASP:N	1:C:572:THR:O	2.26	0.69
1:C:618:THR:OG1	1:C:619:GLU:OE1	2.10	0.69
1:B:189:LEU:HB3	1:B:210:ILE:HD11	1.75	0.69
1:B:618:THR:OG1	1:B:619:GLU:OE1	2.10	0.69
1:B:651:ILE:CG1	1:B:651:ILE:HG21	1.90	0.69
1:B:900:MET:SD	1:B:917:TYR:OH	2.51	0.69
1:C:17:ASN:ND2	3:H:1:NAG:H5	2.08	0.69
1:A:189:LEU:HB3	1:A:210:ILE:HD11	1.75	0.69
1:B:189:LEU:HD11	1:B:191:GLU:CD	2.13	0.69
1:B:794:ILE:CD1	1:B:796:ASP:OD2	2.41	0.69
1:B:913:GLN:O	1:B:917:TYR:HD1	1.76	0.69
1:C:41:LYS:HA	1:C:41:LYS:NZ	2.08	0.69
1:C:722:VAL:HG22	1:C:1065:VAL:HG22	1.74	0.69
1:B:134:GLN:HB3	1:B:161:SER:OG	1.92	0.68
1:B:722:VAL:HG22	1:B:1065:VAL:HG22	1.74	0.68
1:C:535:LYS:HA	1:C:552:LEU:HD23	1.75	0.68
1:A:134:GLN:HB3	1:A:161:SER:OG	1.93	0.68
1:B:472:ILE:HG23	1:B:489:TYR:O	1.93	0.68
1:C:794:ILE:CD1	1:C:796:ASP:OD2	2.41	0.68
1:C:913:GLN:O	1:C:917:TYR:HD1	1.76	0.68
1:B:132:GLU:O	1:B:132:GLU:HG2	1.93	0.68
1:B:132:GLU:OE2	1:B:165:ASN:N	2.21	0.68
1:B:705:VAL:HG21	1:C:883:THR:CG2	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:189:LEU:HB3	1:C:210:ILE:HD11	1.75	0.68
1:C:304:LYS:CE	1:C:304:LYS:HG2	1.82	0.68
1:A:132:GLU:HG2	1:A:132:GLU:O	1.93	0.68
1:B:106:PHE:O	1:B:116:SER:OG	2.05	0.68
1:C:41:LYS:CG	1:C:41:LYS:HE2	2.22	0.68
1:B:1116:THR:HG23	1:B:1138:TYR:HD1	1.59	0.68
1:A:903:ALA:HB1	1:A:913:GLN:HG2	1.76	0.68
1:B:702:GLU:HB3	1:C:790:LYS:HD3	1.73	0.68
1:A:913:GLN:O	1:A:917:TYR:HD1	1.76	0.68
1:B:132:GLU:OE1	1:B:164:ASN:HB3	1.93	0.68
1:A:41:LYS:HA	1:A:41:LYS:NZ	2.08	0.68
1:A:825:LYS:HD3	1:A:945:LEU:HD12	1.76	0.68
1:B:1050:MET:O	1:B:1065:VAL:N	2.14	0.68
1:C:948:LEU:CD1	1:C:948:LEU:HG	2.13	0.68
2:D:36:TRP:CD1	2:D:80:LEU:HD13	2.29	0.68
1:B:41:LYS:HA	1:B:41:LYS:NZ	2.08	0.68
1:B:393:THR:OG1	1:B:516:GLU:OE1	2.12	0.68
1:B:825:LYS:HD3	1:B:945:LEU:HD12	1.76	0.68
1:A:43:PHE:N	1:C:565:PHE:O	2.26	0.68
1:C:340:GLU:OE1	1:C:340:GLU:N	2.26	0.68
1:C:492:LEU:O	2:D:103:THR:HG23	1.93	0.67
1:B:133:PHE:CE1	1:B:160:TYR:HB2	2.29	0.67
1:B:562:PHE:CE2	1:C:41:LYS:HE2	2.30	0.67
1:C:611:LEU:HG	1:C:612:TYR:N	2.09	0.67
1:A:314:GLN:NE2	1:A:316:SER:O	2.28	0.67
1:C:134:GLN:HB3	1:C:161:SER:OG	1.93	0.67
1:C:913:GLN:HB3	1:C:917:TYR:CE1	2.30	0.67
1:C:1116:THR:HG23	1:C:1138:TYR:HD1	1.59	0.67
1:A:913:GLN:HB3	1:A:917:TYR:CE1	2.30	0.67
1:B:314:GLN:NE2	1:B:316:SER:O	2.28	0.67
1:C:903:ALA:HB1	1:C:913:GLN:HG2	1.76	0.67
1:A:594:GLY:HA3	1:A:613:GLN:HG2	1.77	0.67
1:A:1116:THR:HG23	1:A:1138:TYR:HD1	1.59	0.67
1:C:294:ASP:OD2	1:C:296:LEU:N	2.26	0.67
1:C:314:GLN:NE2	1:C:316:SER:O	2.28	0.67
1:A:1130:ILE:CD1	1:B:920:GLN:OE1	2.39	0.67
1:B:577:ARG:CZ	4:B:1305:NAG:H83	2.25	0.67
1:B:913:GLN:HB3	1:B:917:TYR:CE1	2.30	0.67
1:C:594:GLY:HA3	1:C:613:GLN:HG2	1.77	0.67
1:A:452:LEU:HD12	1:A:492:LEU:HB2	1.76	0.67
1:B:367:VAL:O	1:B:371:SER:N	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:712:ILE:HD11	1:C:896:ILE:HG13	1.77	0.67
1:A:611:LEU:HG	1:A:612:TYR:N	2.09	0.67
1:C:132:GLU:O	1:C:132:GLU:HG2	1.93	0.67
1:C:802:PHE:HD2	1:C:805:ILE:HD11	1.58	0.67
1:A:41:LYS:HG2	1:C:564:GLN:HG3	1.76	0.67
1:A:381:GLY:HA3	1:A:430:THR:HG22	1.76	0.67
1:A:701:ALA:O	1:B:788:ILE:N	2.28	0.67
1:A:723:THR:N	1:A:1064:HIS:O	2.26	0.67
1:A:49:HIS:CE1	1:A:51:THR:OG1	2.48	0.67
1:A:699:LEU:CD1	1:B:872:GLN:HE22	2.08	0.67
1:B:802:PHE:HD2	1:B:805:ILE:HD11	1.58	0.67
1:B:702:GLU:HA	1:C:788:ILE:O	1.95	0.66
1:B:758:SER:O	1:B:761:THR:OG1	2.11	0.66
1:C:49:HIS:CE1	1:C:51:THR:OG1	2.48	0.66
1:A:883:THR:O	1:A:896:ILE:HG22	1.96	0.66
1:B:103:GLY:HA3	1:B:120:VAL:HA	1.77	0.66
1:B:594:GLY:HA3	1:B:613:GLN:HG2	1.77	0.66
1:C:330:PRO:HD2	1:C:332:ILE:HD12	1.75	0.66
1:C:733:LYS:CE	1:C:861:LEU:HB3	2.26	0.66
1:A:900:MET:SD	1:A:917:TYR:OH	2.51	0.66
1:B:49:HIS:CE1	1:B:51:THR:OG1	2.48	0.66
1:B:502:GLY:O	1:B:505:TYR:N	2.29	0.66
1:A:350:VAL:HG21	1:A:418:ILE:HG23	1.76	0.66
1:C:185:ASN:ND2	1:C:212:LEU:O	2.28	0.66
1:C:900:MET:SD	1:C:917:TYR:OH	2.51	0.66
1:B:99:ASN:O	1:B:102:ARG:NE	2.23	0.66
1:B:421:TYR:C	1:B:461:LEU:HD21	2.15	0.66
1:C:327:VAL:O	1:C:531:THR:N	2.28	0.66
1:C:449:TYR:CE1	2:D:53:ALA:HA	2.31	0.66
1:A:40:ASP:OD2	1:A:42:VAL:N	2.22	0.66
1:A:84:LEU:CA	1:A:237:ARG:HH11	2.09	0.66
1:B:883:THR:O	1:B:896:ILE:HG22	1.96	0.66
1:B:903:ALA:HB1	1:B:913:GLN:HG2	1.76	0.66
1:A:133:PHE:CE1	1:A:160:TYR:HB2	2.30	0.66
1:A:133:PHE:HD1	1:A:162:SER:H	1.44	0.66
1:B:611:LEU:HG	1:B:612:TYR:N	2.09	0.66
1:C:28:TYR:CD1	4:C:1304:NAG:H5	2.30	0.66
1:C:452:LEU:HD23	2:D:104:CYS:O	1.94	0.66
1:C:473:TYR:HB2	1:C:491:PRO:HB3	1.78	0.66
1:A:145:TYR:CD1	1:A:152:TRP:CE3	2.84	0.66
1:B:145:TYR:CD1	1:B:152:TRP:CE3	2.84	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:PRO:HB2	1:A:794:ILE:HG23	1.77	0.66
1:A:948:LEU:CD1	1:A:948:LEU:CB	2.70	0.66
1:B:733:LYS:CE	1:B:861:LEU:HB3	2.26	0.66
1:C:29:THR:N	1:C:62:VAL:O	2.25	0.66
1:A:91:TYR:HA	1:A:193:VAL:HG22	1.77	0.66
1:A:103:GLY:HA3	1:A:120:VAL:HA	1.77	0.66
1:A:143:VAL:HG11	1:A:245:HIS:CE1	2.31	0.66
1:A:733:LYS:CE	1:A:861:LEU:HB3	2.26	0.66
2:D:4:LEU:HD21	2:D:97:ALA:CB	2.25	0.66
1:A:100:ILE:HD12	1:A:263:ALA:HB2	1.77	0.65
1:B:395:VAL:HG22	1:B:514:SER:O	1.96	0.65
1:C:883:THR:O	1:C:896:ILE:HG22	1.96	0.65
1:A:402:ILE:O	1:A:508:TYR:N	2.28	0.65
1:A:802:PHE:HD2	1:A:805:ILE:HD11	1.58	0.65
1:C:84:LEU:CA	1:C:237:ARG:HH11	2.09	0.65
1:C:330:PRO:HA	1:C:580:GLN:CD	2.15	0.65
1:C:611:LEU:CD1	1:C:611:LEU:HD21	2.11	0.65
1:C:825:LYS:HD3	1:C:945:LEU:HD12	1.76	0.65
1:A:84:LEU:HA	1:A:237:ARG:NH1	2.12	0.65
1:A:434:ILE:O	1:A:510:VAL:HG13	1.97	0.65
1:B:100:ILE:HD12	1:B:263:ALA:HB2	1.77	0.65
1:B:106:PHE:CD1	1:B:238:PHE:HB2	2.31	0.65
1:C:133:PHE:CE1	1:C:160:TYR:HB2	2.30	0.65
1:C:327:VAL:H	1:C:531:THR:HG22	1.62	0.65
1:C:474:GLN:NE2	1:C:478:THR:O	2.29	0.65
2:D:103:THR:O	2:D:105:THR:N	2.29	0.65
1:A:294:ASP:OD2	1:A:296:LEU:N	2.26	0.65
1:A:41:LYS:CA	1:A:41:LYS:CE	2.75	0.65
1:B:185:ASN:ND2	1:B:212:LEU:O	2.28	0.65
4:B:1311:NAG:O3	4:B:1311:NAG:O7	2.13	0.65
1:C:93:ALA:O	1:C:266:TYR:N	2.25	0.65
1:C:100:ILE:HD12	1:C:263:ALA:HB2	1.77	0.65
1:C:145:TYR:CD1	1:C:152:TRP:CE3	2.84	0.65
2:D:4:LEU:HD21	2:D:97:ALA:HB2	1.77	0.65
1:A:185:ASN:ND2	1:A:212:LEU:O	2.28	0.65
1:A:758:SER:O	1:A:761:THR:OG1	2.11	0.65
1:B:84:LEU:HA	1:B:237:ARG:NH1	2.12	0.65
1:C:792:PRO:HB2	1:C:794:ILE:HG23	1.77	0.65
1:A:364:ASP:O	1:A:367:VAL:HG22	1.96	0.65
1:A:1074:ASN:ND2	4:A:1311:NAG:O4	2.30	0.65
1:C:41:LYS:CA	1:C:41:LYS:CE	2.75	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:948:LEU:CD1	1:B:948:LEU:CB	2.69	0.65
1:C:91:TYR:HA	1:C:193:VAL:HG22	1.77	0.65
1:A:344:ALA:O	1:A:509:ARG:NH2	2.30	0.65
1:B:90:VAL:HG13	1:B:267:VAL:HG13	1.79	0.65
1:B:133:PHE:HD1	1:B:162:SER:H	1.44	0.65
1:B:433:VAL:HG13	1:B:512:VAL:HG22	1.77	0.65
1:C:310:LYS:NZ	1:C:663:ASP:O	2.27	0.65
1:A:310:LYS:NZ	1:A:663:ASP:O	2.27	0.65
1:C:103:GLY:HA3	1:C:120:VAL:HA	1.77	0.65
1:C:133:PHE:HD1	1:C:162:SER:H	1.44	0.65
1:C:143:VAL:HG11	1:C:245:HIS:CE1	2.32	0.65
1:A:139:PRO:HB2	1:A:159:VAL:HG12	1.79	0.64
1:B:41:LYS:CG	1:B:41:LYS:HE2	2.22	0.64
1:B:83:VAL:O	1:B:237:ARG:NH1	2.31	0.64
1:B:143:VAL:HG11	1:B:245:HIS:CE1	2.31	0.64
1:C:723:THR:N	1:C:1064:HIS:O	2.26	0.64
1:C:758:SER:O	1:C:761:THR:OG1	2.11	0.64
1:B:41:LYS:CA	1:B:41:LYS:CE	2.75	0.64
1:B:78:ARG:NH2	1:B:80:ASP:HA	2.12	0.64
1:B:91:TYR:HA	1:B:193:VAL:HG22	1.77	0.64
1:B:792:PRO:HB2	1:B:794:ILE:HG23	1.78	0.64
1:C:651:ILE:CB	1:C:651:ILE:HD12	2.19	0.64
1:A:106:PHE:CD1	1:A:238:PHE:HB2	2.32	0.64
1:B:84:LEU:CA	1:B:237:ARG:HH11	2.09	0.64
1:B:120:VAL:HG13	1:B:127:VAL:CG2	2.28	0.64
1:B:310:LYS:NZ	1:B:663:ASP:O	2.27	0.64
1:C:83:VAL:O	1:C:237:ARG:NH1	2.31	0.64
1:C:330:PRO:O	1:C:332:ILE:HB	1.98	0.64
1:C:473:TYR:N	1:C:489:TYR:O	2.25	0.64
1:C:710:ASN:O	1:C:1076:THR:OG1	2.08	0.64
1:C:139:PRO:HB2	1:C:159:VAL:HG12	1.79	0.64
1:C:395:VAL:HG22	1:C:515:PHE:HA	1.78	0.64
1:B:332:ILE:HD12	1:B:333:THR:N	2.13	0.64
1:C:84:LEU:HA	1:C:237:ARG:NH1	2.12	0.64
1:C:366:SER:O	1:C:370:ASN:N	2.30	0.64
1:C:444:LYS:NZ	2:D:53:ALA:HB1	2.13	0.64
1:A:493:GLN:NE2	1:A:494:SER:O	2.28	0.64
1:C:90:VAL:HG13	1:C:267:VAL:HG13	1.79	0.64
1:C:99:ASN:O	1:C:102:ARG:NE	2.23	0.64
1:C:350:VAL:HG11	1:C:453:TYR:HA	1.79	0.64
1:A:323:THR:O	1:A:539:VAL:HG22	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:145:TYR:N	1:C:246:ARG:O	2.30	0.64
1:A:197:ILE:O	1:A:200:TYR:N	2.31	0.64
1:A:329:PHE:O	1:A:580:GLN:NE2	2.29	0.64
1:A:651:ILE:CG2	1:A:651:ILE:HG13	2.18	0.64
1:B:152:TRP:CB	1:B:245:HIS:CE1	2.81	0.64
1:C:111:ASP:O	1:C:112:SER:OG	2.15	0.64
1:C:956:ALA:O	1:C:960:ASN:ND2	2.30	0.64
1:A:152:TRP:CB	1:A:245:HIS:CE1	2.81	0.64
1:A:703:ASN:ND2	1:B:788:ILE:O	2.30	0.63
1:B:111:ASP:HB3	1:B:134:GLN:CD	2.19	0.63
1:B:145:TYR:N	1:B:246:ARG:O	2.30	0.63
1:A:365:TYR:HB2	1:A:387:LEU:HD22	1.78	0.63
1:A:368:LEU:HD23	1:A:369:TYR:N	2.13	0.63
1:A:898:PHE:HA	1:A:901:GLN:HG3	1.79	0.63
1:A:1101:HIS:HE1	4:A:1312:NAG:C1	2.11	0.63
1:C:152:TRP:CB	1:C:245:HIS:CE1	2.81	0.63
1:A:78:ARG:NH2	1:A:80:ASP:HA	2.12	0.63
1:B:139:PRO:HB2	1:B:159:VAL:HG12	1.79	0.63
1:B:295:PRO:O	1:B:298:GLU:HG2	1.99	0.63
1:B:905:ARG:NH2	1:B:1050:MET:HE2	2.13	0.63
1:A:83:VAL:O	1:A:237:ARG:NH1	2.31	0.63
1:A:145:TYR:N	1:A:246:ARG:O	2.30	0.63
1:B:492:LEU:HD12	1:B:492:LEU:N	2.13	0.63
1:B:543:PHE:O	1:B:546:LEU:N	2.30	0.63
1:B:898:PHE:HA	1:B:901:GLN:HG3	1.79	0.63
2:D:43:LYS:HE3	2:D:44:GLU:O	1.99	0.63
1:A:111:ASP:O	1:A:112:SER:OG	2.15	0.63
1:A:152:TRP:CE3	1:A:245:HIS:CG	2.86	0.63
1:A:865:LEU:HB3	1:A:869:MET:HG3	1.81	0.63
1:B:152:TRP:CE3	1:B:245:HIS:CG	2.86	0.63
1:B:878:LEU:O	1:B:882:ILE:HG23	1.99	0.63
1:C:197:ILE:O	1:C:200:TYR:N	2.31	0.63
1:A:342:PHE:O	1:A:509:ARG:NH2	2.32	0.63
1:A:1101:HIS:NE2	4:A:1312:NAG:H61	2.13	0.63
1:C:106:PHE:CD1	1:C:238:PHE:HB2	2.32	0.63
1:C:403:ARG:NE	1:C:504:GLY:O	2.29	0.63
1:A:90:VAL:HG13	1:A:267:VAL:HG13	1.79	0.63
1:A:93:ALA:O	1:A:266:TYR:N	2.25	0.63
1:A:120:VAL:HG13	1:A:127:VAL:CG2	2.28	0.63
1:A:407:VAL:HG11	1:A:508:TYR:CD2	2.33	0.63
1:A:563:GLN:HA	1:B:41:LYS:HB3	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1304:NAG:C1	4:B:1304:NAG:H82	2.28	0.63
1:C:117:LEU:HD11	1:C:128:ILE:HG22	1.81	0.63
1:C:152:TRP:CE3	1:C:245:HIS:CG	2.86	0.63
1:C:865:LEU:HB3	1:C:869:MET:HG3	1.81	0.63
1:A:22:THR:HG23	1:A:76:THR:HB	1.81	0.63
1:A:295:PRO:O	1:A:298:GLU:HG2	1.99	0.63
1:B:865:LEU:HB3	1:B:869:MET:HG3	1.81	0.63
1:C:78:ARG:NH2	1:C:80:ASP:HA	2.12	0.63
1:C:295:PRO:O	1:C:298:GLU:HG2	1.99	0.63
1:C:318:PHE:HZ	1:C:615:VAL:HG11	1.64	0.63
1:C:898:PHE:HA	1:C:901:GLN:HG3	1.79	0.63
1:A:959:LEU:O	1:A:963:VAL:HG23	1.99	0.63
1:C:453:TYR:OH	1:C:495:TYR:CZ	2.51	0.63
1:A:878:LEU:O	1:A:882:ILE:HG23	1.99	0.62
1:B:93:ALA:O	1:B:266:TYR:N	2.25	0.62
1:B:651:ILE:CB	1:B:651:ILE:HD12	2.19	0.62
1:C:111:ASP:HB3	1:C:134:GLN:CD	2.19	0.62
1:C:959:LEU:O	1:C:963:VAL:HG23	1.99	0.62
1:A:578:ASP:OD2	1:A:581:THR:N	2.30	0.62
1:B:64:TRP:NE1	1:B:266:TYR:OH	2.33	0.62
1:C:495:TYR:O	1:C:505:TYR:OH	2.13	0.62
1:C:580:GLN:OE1	1:C:580:GLN:HA	1.99	0.62
1:A:111:ASP:HB3	1:A:134:GLN:CD	2.19	0.62
1:B:956:ALA:O	1:B:960:ASN:ND2	2.30	0.62
1:A:1009:THR:O	1:A:1013:ILE:HG13	2.00	0.62
1:B:143:VAL:HG22	1:B:154:GLU:HA	1.81	0.62
1:B:562:PHE:C	1:C:41:LYS:CG	2.68	0.62
1:A:729:VAL:HG21	1:A:1060:VAL:HG12	1.82	0.62
1:B:1009:THR:O	1:B:1013:ILE:HG13	2.00	0.62
1:C:729:VAL:HG21	1:C:1060:VAL:HG12	1.82	0.62
1:C:325:SER:OG	1:C:540:ASN:O	2.16	0.62
1:C:124:THR:HG23	3:G:1:NAG:H82	1.80	0.62
1:C:492:LEU:C	2:D:103:THR:HG23	2.20	0.62
1:C:1014:ARG:N	1:C:1014:ARG:HD2	2.01	0.62
2:D:30:SER:O	2:D:100:LYS:HB2	1.98	0.62
1:B:109:THR:C	1:B:110:LEU:HD23	2.20	0.62
1:B:959:LEU:O	1:B:963:VAL:HG23	1.99	0.62
1:C:905:ARG:NH2	1:C:1050:MET:HE2	2.14	0.62
1:A:1071:GLN:NE2	1:A:1071:GLN:N	2.48	0.62
1:B:22:THR:HG23	1:B:76:THR:HB	1.81	0.62
1:B:699:LEU:CB	1:C:788:ILE:HD11	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:729:VAL:HG21	1:B:1060:VAL:HG12	1.82	0.62
1:B:1071:GLN:NE2	1:B:1071:GLN:N	2.48	0.62
1:B:1101:HIS:CE1	4:B:1312:NAG:O5	2.50	0.62
1:C:22:THR:HG23	1:C:76:THR:HB	1.81	0.62
1:C:327:VAL:HG23	1:C:530:SER:HA	1.82	0.62
1:C:1071:GLN:NE2	1:C:1071:GLN:N	2.48	0.62
2:D:67:LEU:HD21	2:D:80:LEU:HD11	1.82	0.62
1:A:143:VAL:HG22	1:A:154:GLU:HA	1.81	0.62
1:A:220:PHE:CZ	1:A:287:ASP:HA	2.35	0.62
1:B:117:LEU:HD11	1:B:128:ILE:HG22	1.81	0.62
1:A:64:TRP:NE1	1:A:266:TYR:OH	2.33	0.61
1:B:111:ASP:O	1:B:112:SER:OG	2.15	0.61
1:B:553:THR:O	1:B:586:ASP:N	2.25	0.61
1:B:751:ASN:O	1:B:755:GLN:HB3	1.99	0.61
1:C:64:TRP:NE1	1:C:266:TYR:OH	2.32	0.61
1:C:220:PHE:CZ	1:C:287:ASP:HA	2.35	0.61
1:C:1009:THR:O	1:C:1013:ILE:HG13	2.00	0.61
1:A:109:THR:C	1:A:110:LEU:HD23	2.20	0.61
1:A:956:ALA:O	1:A:960:ASN:ND2	2.31	0.61
1:B:197:ILE:O	1:B:200:TYR:N	2.31	0.61
1:C:64:TRP:CD1	1:C:66:HIS:CD2	2.88	0.61
1:C:86:PHE:N	1:C:236:THR:O	2.32	0.61
1:B:64:TRP:CD1	1:B:66:HIS:CD2	2.88	0.61
1:B:336:CYS:SG	1:B:363:ALA:HB2	2.40	0.61
1:B:341:VAL:O	1:B:344:ALA:HB2	2.00	0.61
1:C:130:VAL:CG1	1:C:168:PHE:H	2.13	0.61
1:A:437:ASN:ND2	1:A:506:GLN:OE1	2.33	0.61
1:A:712:ILE:HD13	1:B:895:GLN:O	1.99	0.61
1:B:969:ASN:HB2	1:C:755:GLN:O	2.00	0.61
1:C:449:TYR:O	2:D:32:CYS:O	2.19	0.61
1:C:751:ASN:O	1:C:755:GLN:HB3	1.99	0.61
1:C:878:LEU:O	1:C:882:ILE:HG23	1.99	0.61
2:D:6:GLU:OE2	2:D:110:GLY:HA3	2.01	0.61
2:D:50:SER:HB3	2:D:58:TYR:CZ	2.36	0.61
1:A:117:LEU:HD11	1:A:128:ILE:HG22	1.81	0.61
1:A:567:ARG:NE	1:A:571:ASP:O	2.33	0.61
1:A:1101:HIS:CE1	4:A:1312:NAG:H62	2.34	0.61
1:A:318:PHE:HZ	1:A:615:VAL:HG11	1.64	0.61
1:A:551:VAL:HG13	1:A:588:THR:HG1	1.66	0.61
1:B:130:VAL:CG1	1:B:168:PHE:H	2.13	0.61
1:B:328:ARG:O	1:B:544:ASN:ND2	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:344:ALA:HB3	1:B:509:ARG:HE	1.65	0.61
1:B:710:ASN:O	1:B:1076:THR:OG1	2.08	0.61
1:A:1005:GLN:O	1:A:1009:THR:HG23	2.00	0.61
1:C:48:LEU:CD1	1:C:305:SER:HA	2.31	0.61
1:C:109:THR:C	1:C:110:LEU:HD23	2.20	0.61
1:A:350:VAL:HG21	1:A:418:ILE:CD1	2.29	0.61
1:A:403:ARG:O	1:A:407:VAL:N	2.34	0.61
1:C:145:TYR:CE1	1:C:152:TRP:CD2	2.89	0.61
1:C:448:ASN:OD1	2:D:53:ALA:HB3	2.00	0.61
1:C:779:GLN:OE1	1:C:783:ALA:HB3	2.01	0.61
1:A:145:TYR:CE1	1:A:152:TRP:CD2	2.89	0.61
1:B:48:LEU:CD1	1:B:305:SER:HA	2.31	0.61
1:B:294:ASP:OD2	1:B:296:LEU:N	2.26	0.61
1:B:1005:GLN:O	1:B:1009:THR:HG23	2.00	0.61
1:C:143:VAL:HG22	1:C:154:GLU:HA	1.81	0.61
1:C:1073:LYS:HG3	1:C:1075:PHE:CE1	2.36	0.61
1:A:64:TRP:CD1	1:A:66:HIS:CD2	2.88	0.61
1:A:278:LYS:O	1:A:285:ILE:HG23	2.01	0.61
1:A:602:THR:O	1:A:605:SER:N	2.34	0.61
1:B:619:GLU:OE2	1:B:619:GLU:N	2.34	0.61
1:C:112:SER:O	1:C:132:GLU:HG3	2.01	0.61
1:A:130:VAL:CG1	1:A:168:PHE:H	2.13	0.60
1:A:779:GLN:OE1	1:A:783:ALA:HB3	2.01	0.60
1:C:329:PHE:HA	1:C:580:GLN:HE21	1.65	0.60
1:A:376:THR:HG22	1:A:433:VAL:HG13	1.83	0.60
1:A:751:ASN:O	1:A:755:GLN:HB3	1.99	0.60
1:B:278:LYS:O	1:B:285:ILE:HG23	2.01	0.60
1:B:699:LEU:HB2	1:C:788:ILE:HD11	1.81	0.60
1:C:619:GLU:OE2	1:C:619:GLU:N	2.34	0.60
1:A:48:LEU:CD1	1:A:305:SER:HA	2.31	0.60
1:A:574:ASP:O	1:A:587:ILE:N	2.34	0.60
1:B:145:TYR:CE1	1:B:152:TRP:CD2	2.89	0.60
1:B:220:PHE:CZ	1:B:287:ASP:HA	2.35	0.60
1:C:1005:GLN:O	1:C:1009:THR:HG23	2.00	0.60
1:A:619:GLU:OE2	1:A:619:GLU:N	2.34	0.60
1:A:670:ILE:CG2	1:A:670:ILE:CA	2.78	0.60
1:A:1073:LYS:HG3	1:A:1075:PHE:CE1	2.36	0.60
1:B:1071:GLN:HG3	1:B:1071:GLN:HE21	1.62	0.60
1:C:278:LYS:O	1:C:285:ILE:HG23	2.01	0.60
1:A:90:VAL:HG13	1:A:267:VAL:CG1	2.32	0.60
1:A:112:SER:O	1:A:132:GLU:HG3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:703:ASN:CG	1:B:787:GLN:HG3	2.21	0.60
1:C:120:VAL:HG13	1:C:127:VAL:CG2	2.28	0.60
1:C:817:PHE:CE2	1:C:821:LEU:HD21	2.37	0.60
1:A:567:ARG:HB2	1:B:44:ARG:HH22	1.66	0.60
1:C:406:GLU:OE1	1:C:406:GLU:N	2.33	0.60
1:C:452:LEU:HD21	2:D:98:SER:CB	2.32	0.60
1:C:602:THR:O	1:C:605:SER:N	2.34	0.60
1:B:112:SER:O	1:B:132:GLU:HG3	2.01	0.60
1:A:710:ASN:O	1:A:1076:THR:OG1	2.08	0.60
1:B:153:MET:HE2	4:B:1302:NAG:C3	2.32	0.60
1:B:318:PHE:HD2	1:B:318:PHE:C	2.05	0.60
1:B:538:CYS:CA	1:B:551:VAL:HG22	2.32	0.60
1:C:90:VAL:HG13	1:C:267:VAL:CG1	2.32	0.60
1:B:136:CYS:SG	1:B:137:ASN:N	2.75	0.60
1:B:779:GLN:OE1	1:B:783:ALA:HB3	2.01	0.60
1:C:127:VAL:HG11	3:G:1:NAG:C1	2.32	0.60
1:C:613:GLN:O	1:C:615:VAL:HG23	2.01	0.60
1:A:926:GLN:HA	1:A:929:SER:OG	2.02	0.60
1:B:817:PHE:CE2	1:B:821:LEU:HD21	2.37	0.60
1:B:926:GLN:HA	1:B:929:SER:OG	2.02	0.60
1:C:136:CYS:SG	1:C:137:ASN:N	2.75	0.60
1:C:948:LEU:CD1	1:C:948:LEU:CB	2.70	0.60
1:A:43:PHE:CE2	1:C:559:PHE:CE1	2.90	0.59
1:B:613:GLN:O	1:B:615:VAL:HG23	2.01	0.59
1:C:124:THR:OG1	3:G:1:NAG:O7	2.20	0.59
2:D:51:ILE:HG13	2:D:57:THR:HG22	1.83	0.59
1:A:1056:ALA:N	1:A:1059:GLY:O	2.33	0.59
1:B:90:VAL:HG13	1:B:267:VAL:CG1	2.32	0.59
1:B:1073:LYS:HG3	1:B:1075:PHE:CE1	2.36	0.59
1:C:84:LEU:O	1:C:238:PHE:N	2.31	0.59
1:C:490:PHE:CD2	1:C:492:LEU:HD11	2.37	0.59
1:C:553:THR:O	1:C:586:ASP:N	2.35	0.59
1:B:327:VAL:HG22	1:B:542:ASN:O	2.01	0.59
1:B:1054:GLN:N	1:B:1061:VAL:O	2.35	0.59
1:C:452:LEU:CD1	2:D:33:ARG:CB	2.80	0.59
1:C:750:SER:O	1:C:754:LEU:HG	2.02	0.59
1:C:1071:GLN:HG3	1:C:1071:GLN:HE21	1.62	0.59
1:A:566:GLY:CA	1:B:43:PHE:HB2	2.32	0.59
1:A:613:GLN:O	1:A:615:VAL:HG23	2.01	0.59
1:A:817:PHE:CE2	1:A:821:LEU:HD21	2.37	0.59
1:B:733:LYS:NZ	1:B:862:PRO:O	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:329:PHE:HA	1:C:580:GLN:NE2	2.17	0.59
1:C:578:ASP:OD1	1:C:580:GLN:HB2	2.02	0.59
1:C:926:GLN:HA	1:C:929:SER:OG	2.02	0.59
1:B:438:SER:O	1:B:442:ASP:N	2.34	0.59
1:B:602:THR:O	1:B:605:SER:N	2.34	0.59
1:B:705:VAL:CG2	1:C:883:THR:HG21	2.27	0.59
1:C:37:TYR:HB2	1:C:204:TYR:CD2	2.38	0.59
1:A:37:TYR:HB2	1:A:204:TYR:CD2	2.38	0.59
1:A:750:SER:O	1:A:754:LEU:HG	2.02	0.59
1:B:318:PHE:HZ	1:B:615:VAL:HG11	1.64	0.59
1:B:349:SER:HG	1:B:495:TYR:HH	1.43	0.59
1:C:92:PHE:N	1:C:192:PHE:O	2.27	0.59
1:C:670:ILE:CG2	1:C:670:ILE:CA	2.78	0.59
1:C:1054:GLN:N	1:C:1061:VAL:O	2.35	0.59
1:A:78:ARG:NH2	1:A:80:ASP:CA	2.65	0.59
1:A:280:ASN:HB2	1:A:282:ASN:OD1	2.03	0.59
1:A:1054:GLN:N	1:A:1061:VAL:O	2.35	0.59
1:B:117:LEU:HD11	1:B:128:ILE:HG23	1.85	0.59
1:C:280:ASN:HB2	1:C:282:ASN:OD1	2.03	0.59
1:A:136:CYS:SG	1:A:137:ASN:N	2.75	0.59
1:A:318:PHE:HD2	1:A:318:PHE:C	2.05	0.59
1:A:933:LYS:NZ	1:A:933:LYS:CD	2.65	0.59
1:B:409:GLN:CD	1:B:418:ILE:HD12	2.23	0.59
1:B:440:ASN:OD1	1:B:440:ASN:N	2.36	0.59
1:B:970:PHE:HA	1:C:756:TYR:O	2.02	0.59
1:B:37:TYR:HB2	1:B:204:TYR:CD2	2.38	0.59
1:B:92:PHE:N	1:B:192:PHE:O	2.27	0.59
1:B:153:MET:HE2	4:B:1302:NAG:O3	2.03	0.59
1:B:1056:ALA:N	1:B:1059:GLY:O	2.33	0.59
1:C:277:LEU:HB3	1:C:279:TYR:CZ	2.38	0.59
1:C:452:LEU:HA	2:D:104:CYS:SG	2.43	0.59
1:A:533:LEU:HD11	1:A:535:LYS:NZ	2.18	0.59
1:B:364:ASP:OD1	1:B:367:VAL:HG13	2.03	0.59
1:C:329:PHE:C	1:C:580:GLN:HG3	2.24	0.59
1:A:86:PHE:N	1:A:236:THR:O	2.32	0.58
1:A:165:ASN:HD21	4:A:1302:NAG:H2	1.68	0.58
1:A:403:ARG:NE	1:A:504:GLY:O	2.35	0.58
1:A:564:GLN:HG2	1:B:41:LYS:CG	2.22	0.58
1:B:280:ASN:HB2	1:B:282:ASN:OD1	2.03	0.58
1:C:127:VAL:CG1	3:G:1:NAG:C5	2.80	0.58
1:C:493:GLN:HA	2:D:103:THR:HA	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:84:LEU:O	1:B:238:PHE:N	2.31	0.58
1:B:750:SER:O	1:B:754:LEU:HG	2.02	0.58
1:B:933:LYS:NZ	1:B:933:LYS:CD	2.65	0.58
1:B:951:VAL:CA	1:B:954:GLN:HG3	2.33	0.58
1:C:199:GLY:HA2	1:C:232:GLY:HA2	1.85	0.58
1:A:117:LEU:HD11	1:A:128:ILE:HG23	1.85	0.58
1:A:670:ILE:CG2	1:A:670:ILE:CG1	2.80	0.58
1:A:1014:ARG:N	1:A:1014:ARG:HD2	2.00	0.58
1:B:152:TRP:HB2	1:B:245:HIS:CE1	2.39	0.58
1:B:353:TRP:O	1:B:466:ARG:NH2	2.36	0.58
1:C:318:PHE:HD2	1:C:318:PHE:C	2.05	0.58
1:C:408:ARG:O	1:C:414:GLN:NE2	2.35	0.58
2:D:32:CYS:SG	2:D:98:SER:OG	2.44	0.58
1:A:560:LEU:HD11	1:B:284:THR:HG22	1.84	0.58
1:A:719:THR:HG23	1:A:1068:VAL:HB	1.86	0.58
1:A:942:PRO:O	1:A:943:SER:OG	2.19	0.58
1:C:152:TRP:HB2	1:C:245:HIS:CE1	2.39	0.58
1:A:354:ASN:N	1:A:399:SER:O	2.37	0.58
1:B:719:THR:HG23	1:B:1068:VAL:HB	1.86	0.58
1:C:78:ARG:CD	1:C:78:ARG:C	2.64	0.58
1:C:117:LEU:HD11	1:C:128:ILE:HG23	1.85	0.58
1:C:529:LYS:O	1:C:530:SER:O	2.21	0.58
1:C:538:CYS:CA	1:C:551:VAL:HG22	2.32	0.58
1:C:1116:THR:O	1:C:1120:THR:HG22	2.04	0.58
1:A:29:THR:N	1:A:62:VAL:O	2.24	0.58
1:A:277:LEU:HB3	1:A:279:TYR:CZ	2.38	0.58
1:B:587:ILE:N	1:B:587:ILE:HD12	2.18	0.58
1:A:104:TRP:N	1:A:119:ILE:O	2.37	0.58
1:A:133:PHE:HE1	1:A:160:TYR:HD2	1.52	0.58
1:A:290:ASP:HB3	1:A:293:LEU:HB2	1.86	0.58
1:A:559:PHE:CD1	1:A:584:ILE:HG13	2.38	0.58
1:A:582:LEU:HD12	1:A:582:LEU:N	2.19	0.58
1:A:1116:THR:O	1:A:1120:THR:HG22	2.04	0.58
1:B:290:ASP:HB3	1:B:293:LEU:HB2	1.86	0.58
1:B:1102:TRP:CD1	1:B:1135:ASN:ND2	2.72	0.58
1:C:127:VAL:HG12	3:G:1:NAG:C5	2.33	0.58
2:D:96:ALA:HB1	2:D:106:PHE:CD2	2.39	0.58
1:A:733:LYS:NZ	1:A:862:PRO:O	2.34	0.58
1:A:1102:TRP:CD1	1:A:1135:ASN:ND2	2.72	0.58
1:B:104:TRP:N	1:B:119:ILE:O	2.37	0.58
1:A:404:GLY:O	1:A:407:VAL:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:559:PHE:CE1	1:B:43:PHE:CE2	2.91	0.58
1:A:741:TYR:OH	1:A:962:LEU:O	2.21	0.58
1:A:779:GLN:OE1	1:A:783:ALA:CB	2.52	0.58
4:B:1306:NAG:HO3	4:B:1306:NAG:C7	2.06	0.58
2:D:52:THR:OG1	2:D:56:ALA:N	2.37	0.58
1:B:120:VAL:CG2	1:B:241:LEU:HB3	2.34	0.58
1:B:277:LEU:HB3	1:B:279:TYR:CZ	2.38	0.58
1:B:357:ARG:C	1:B:358:ILE:HD13	2.23	0.58
1:C:37:TYR:HD1	1:C:55:PHE:HZ	1.52	0.58
1:C:104:TRP:N	1:C:119:ILE:O	2.37	0.58
1:C:127:VAL:CG1	3:G:1:NAG:O5	2.52	0.58
1:B:274:THR:O	1:B:291:CYS:HB2	2.04	0.57
1:C:290:ASP:HB3	1:C:293:LEU:HB2	1.86	0.57
1:C:327:VAL:HG23	1:C:530:SER:C	2.24	0.57
1:C:1056:ALA:N	1:C:1059:GLY:O	2.33	0.57
1:A:942:PRO:O	1:A:942:PRO:HD2	2.04	0.57
1:A:951:VAL:HA	1:A:954:GLN:CG	2.33	0.57
1:B:334:ASN:O	1:B:362:VAL:HG22	2.04	0.57
1:B:994:ASP:O	1:B:998:THR:HG23	2.04	0.57
1:B:1116:THR:O	1:B:1120:THR:HG22	2.04	0.57
1:C:403:ARG:HE	1:C:504:GLY:C	2.06	0.57
1:C:496:GLY:O	1:C:498:GLN:NE2	2.37	0.57
1:C:779:GLN:OE1	1:C:783:ALA:CB	2.52	0.57
1:A:651:ILE:CB	1:A:651:ILE:HD12	2.19	0.57
1:A:994:ASP:O	1:A:998:THR:HG23	2.04	0.57
1:B:569:ILE:H	1:B:569:ILE:HD12	1.69	0.57
1:C:179:LEU:O	1:C:245:HIS:NE2	2.37	0.57
1:A:328:ARG:N	1:A:542:ASN:O	2.32	0.57
1:B:179:LEU:O	1:B:245:HIS:NE2	2.37	0.57
1:B:393:THR:O	1:B:523:THR:OG1	2.12	0.57
1:C:136:CYS:HB3	1:C:139:PRO:HB3	1.87	0.57
1:C:994:ASP:O	1:C:998:THR:HG23	2.04	0.57
1:A:951:VAL:CA	1:A:954:GLN:HG3	2.33	0.57
1:B:48:LEU:HD21	1:B:278:LYS:HZ3	1.70	0.57
1:B:358:ILE:HD11	1:B:397:ALA:CB	2.33	0.57
1:B:779:GLN:OE1	1:B:783:ALA:CB	2.52	0.57
1:C:719:THR:HG23	1:C:1068:VAL:HB	1.86	0.57
1:C:1102:TRP:CD1	1:C:1135:ASN:ND2	2.71	0.57
1:A:749:CYS:O	1:A:752:LEU:N	2.38	0.57
1:B:199:GLY:HA2	1:B:232:GLY:HA2	1.85	0.57
1:A:78:ARG:C	1:A:78:ARG:CD	2.64	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:274:THR:O	1:A:291:CYS:HB2	2.04	0.57
1:A:761:THR:HA	1:A:764:ASN:OD1	2.05	0.57
1:B:136:CYS:HB3	1:B:139:PRO:HB3	1.86	0.57
1:B:209:PRO:C	1:B:210:ILE:HD13	2.25	0.57
1:B:670:ILE:CG2	1:B:670:ILE:CA	2.78	0.57
1:C:327:VAL:HG12	1:C:542:ASN:HB3	1.84	0.57
1:C:741:TYR:OH	1:C:962:LEU:O	2.21	0.57
1:A:56:LEU:HD21	1:A:91:TYR:CD2	2.39	0.57
1:A:136:CYS:HB3	1:A:139:PRO:HB3	1.87	0.57
1:A:143:VAL:HG13	1:A:153:MET:C	2.25	0.57
1:A:209:PRO:C	1:A:210:ILE:HD13	2.25	0.57
1:A:373:SER:HG	4:A:1304:NAG:HO3	1.52	0.57
1:A:387:LEU:HD12	1:A:388:ASN:N	2.19	0.57
1:B:563:GLN:HB3	1:C:41:LYS:CB	2.35	0.57
1:C:209:PRO:C	1:C:210:ILE:HD13	2.25	0.57
1:C:458:LYS:O	1:C:459:SER:O	2.22	0.57
1:A:152:TRP:HB2	1:A:245:HIS:CE1	2.39	0.57
1:A:1071:GLN:NE2	1:A:1071:GLN:CB	2.67	0.57
1:B:56:LEU:HD21	1:B:91:TYR:CD2	2.39	0.57
1:B:143:VAL:HG13	1:B:153:MET:C	2.25	0.57
1:C:56:LEU:HD21	1:C:91:TYR:CD2	2.39	0.57
1:C:78:ARG:NH2	1:C:80:ASP:CA	2.65	0.57
1:C:274:THR:O	1:C:291:CYS:HB2	2.04	0.57
1:C:933:LYS:NZ	1:C:933:LYS:CD	2.65	0.57
1:C:942:PRO:HD2	1:C:942:PRO:O	2.04	0.57
1:A:120:VAL:CG2	1:A:241:LEU:HB3	2.34	0.57
1:A:559:PHE:CE1	1:B:43:PHE:CZ	2.92	0.57
1:B:133:PHE:CG	1:B:160:TYR:CB	2.88	0.57
1:B:741:TYR:OH	1:B:962:LEU:O	2.21	0.57
1:C:749:CYS:O	1:C:752:LEU:N	2.38	0.57
1:B:749:CYS:O	1:B:752:LEU:N	2.38	0.56
1:C:951:VAL:HA	1:C:954:GLN:CG	2.33	0.56
2:D:12:VAL:HG21	2:D:18:LEU:CG	2.32	0.56
1:A:246:ARG:HG3	1:A:257:GLY:O	2.05	0.56
1:A:1050:MET:CG	1:A:1051:SER:N	2.50	0.56
1:B:111:ASP:HA	1:B:134:GLN:HA	1.87	0.56
1:B:560:LEU:HD22	1:B:562:PHE:CE1	2.41	0.56
1:C:951:VAL:CA	1:C:954:GLN:HG3	2.33	0.56
1:A:120:VAL:HG12	1:A:127:VAL:HG23	1.87	0.56
1:A:143:VAL:HG13	1:A:153:MET:O	2.06	0.56
1:A:199:GLY:HA2	1:A:232:GLY:HA2	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:143:VAL:HG13	1:B:153:MET:O	2.06	0.56
1:B:761:THR:HA	1:B:764:ASN:OD1	2.05	0.56
1:B:942:PRO:HD2	1:B:942:PRO:O	2.04	0.56
1:B:951:VAL:HA	1:B:954:GLN:CG	2.33	0.56
1:C:143:VAL:HG13	1:C:153:MET:O	2.06	0.56
1:C:437:ASN:ND2	1:C:507:PRO:O	2.37	0.56
1:C:761:THR:HA	1:C:764:ASN:OD1	2.05	0.56
1:C:1110:TYR:HE1	1:C:1112:PRO:HG3	1.71	0.56
1:A:354:ASN:O	1:A:399:SER:N	2.35	0.56
1:B:551:VAL:HG23	1:B:588:THR:HB	1.88	0.56
1:B:963:VAL:O	1:B:966:LEU:HD23	2.06	0.56
1:C:733:LYS:NZ	1:C:862:PRO:O	2.34	0.56
1:A:328:ARG:HA	1:A:530:SER:HA	1.87	0.56
1:B:117:LEU:HB2	1:B:130:VAL:HG23	1.87	0.56
1:B:511:VAL:HG12	1:B:513:LEU:HD13	1.85	0.56
1:B:1105:THR:OG1	1:B:1111:GLU:N	2.39	0.56
1:B:1110:TYR:HE1	1:B:1112:PRO:HG3	1.71	0.56
1:C:133:PHE:CG	1:C:160:TYR:CB	2.88	0.56
1:C:143:VAL:HG13	1:C:153:MET:C	2.25	0.56
1:A:88:ASP:OD1	1:A:270:LEU:O	2.24	0.56
1:A:17:ASN:OD1	3:E:2:NAG:H5	2.05	0.56
1:A:179:LEU:O	1:A:245:HIS:NE2	2.37	0.56
1:A:296:LEU:HA	1:A:299:THR:HG23	1.87	0.56
1:A:563:GLN:HA	1:B:41:LYS:CB	2.34	0.56
1:A:731:MET:N	1:A:1058:HIS:CE1	2.74	0.56
1:B:86:PHE:N	1:B:236:THR:O	2.32	0.56
1:B:455:LEU:HD12	1:B:491:PRO:O	2.06	0.56
1:B:942:PRO:O	1:B:943:SER:OG	2.19	0.56
1:C:367:VAL:HG23	1:C:368:LEU:HD23	1.85	0.56
1:C:544:ASN:N	1:C:544:ASN:OD1	2.38	0.56
1:C:963:VAL:O	1:C:966:LEU:HD23	2.06	0.56
1:A:1071:GLN:HG3	1:A:1071:GLN:HE21	1.62	0.56
1:A:1105:THR:OG1	1:A:1111:GLU:N	2.39	0.56
1:B:56:LEU:CD2	1:B:91:TYR:CD2	2.89	0.56
1:B:538:CYS:HA	1:B:551:VAL:HG22	1.87	0.56
1:C:246:ARG:HG3	1:C:257:GLY:O	2.05	0.56
1:C:731:MET:N	1:C:1058:HIS:CE1	2.74	0.56
1:A:403:ARG:O	1:A:407:VAL:HG13	2.06	0.56
1:A:699:LEU:HD11	1:B:872:GLN:NE2	2.18	0.56
1:A:712:ILE:HD11	1:B:896:ILE:HG13	1.87	0.56
1:B:710:ASN:OD1	1:B:710:ASN:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:731:MET:N	1:B:1058:HIS:CE1	2.74	0.56
1:C:354:ASN:O	1:C:399:SER:N	2.33	0.56
1:A:133:PHE:CG	1:A:160:TYR:CB	2.88	0.56
1:A:192:PHE:HD1	1:A:205:SER:HG	1.53	0.56
1:A:948:LEU:CD1	1:A:948:LEU:CD2	2.82	0.56
1:A:1014:ARG:O	1:A:1018:ILE:HG12	2.06	0.56
1:B:246:ARG:HG3	1:B:257:GLY:O	2.05	0.56
1:C:120:VAL:CG2	1:C:241:LEU:HB3	2.34	0.56
1:C:145:TYR:CD1	1:C:152:TRP:CD2	2.94	0.56
1:C:296:LEU:HA	1:C:299:THR:HG23	1.87	0.56
1:A:771:ALA:CA	1:A:774:GLN:OE1	2.52	0.55
1:B:145:TYR:CD1	1:B:152:TRP:CD2	2.94	0.55
1:B:364:ASP:O	1:B:367:VAL:HG22	2.06	0.55
1:C:41:LYS:CB	1:C:41:LYS:HE2	2.36	0.55
1:C:56:LEU:CD2	1:C:91:TYR:CD2	2.89	0.55
1:C:124:THR:HG23	3:G:1:NAG:C8	2.36	0.55
1:C:710:ASN:N	1:C:710:ASN:OD1	2.38	0.55
1:C:948:LEU:CD1	1:C:948:LEU:CD2	2.82	0.55
3:H:1:NAG:H61	3:H:2:NAG:C1	2.36	0.55
1:A:199:GLY:O	1:A:231:ILE:N	2.29	0.55
1:A:402:ILE:HD11	1:A:510:VAL:HG21	1.88	0.55
1:B:41:LYS:CB	1:B:41:LYS:HE2	2.36	0.55
1:B:92:PHE:HE1	1:B:265:TYR:HB2	1.71	0.55
1:C:92:PHE:HE1	1:C:265:TYR:HB2	1.72	0.55
1:C:871:ALA:O	1:C:874:THR:OG1	2.23	0.55
1:C:1105:THR:OG1	1:C:1111:GLU:N	2.39	0.55
3:E:1:NAG:H82	3:E:1:NAG:C1	2.36	0.55
1:A:905:ARG:NH2	1:A:1050:MET:HE2	2.21	0.55
1:B:29:THR:N	1:B:62:VAL:O	2.25	0.55
1:B:586:ASP:N	1:B:586:ASP:OD1	2.39	0.55
1:C:450:ASN:ND2	2:D:53:ALA:HB3	2.20	0.55
1:A:559:PHE:HA	1:B:43:PHE:HE1	1.71	0.55
1:B:296:LEU:HA	1:B:299:THR:HG23	1.87	0.55
1:B:1014:ARG:O	1:B:1018:ILE:HG12	2.06	0.55
1:C:111:ASP:HA	1:C:134:GLN:HA	1.87	0.55
1:C:393:THR:HG23	1:C:517:LEU:HD12	1.87	0.55
1:C:452:LEU:HD11	2:D:98:SER:OG	2.07	0.55
1:A:56:LEU:CD2	1:A:91:TYR:CD2	2.89	0.55
1:B:670:ILE:CG2	1:B:670:ILE:CG1	2.80	0.55
1:B:1084:ASP:HB2	1:B:1086:LYS:HG2	1.88	0.55
1:C:117:LEU:HB2	1:C:130:VAL:HG23	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:133:PHE:HD1	1:C:162:SER:N	2.04	0.55
1:C:552:LEU:HD13	1:C:552:LEU:N	2.21	0.55
1:A:279:TYR:HA	1:A:284:THR:O	2.07	0.55
1:A:481:ASN:O	1:A:481:ASN:ND2	2.40	0.55
1:A:1110:TYR:HE1	1:A:1112:PRO:HG3	1.71	0.55
1:B:120:VAL:HG12	1:B:127:VAL:HG23	1.87	0.55
1:B:133:PHE:HD1	1:B:162:SER:N	2.04	0.55
1:B:1091:ARG:HE	1:B:1119:ASN:HA	1.72	0.55
1:C:453:TYR:CZ	1:C:495:TYR:CZ	2.94	0.55
1:C:1109:PHE:HD1	1:C:1110:TYR:H	1.53	0.55
2:D:31:THR:HG21	2:D:34:LYS:HE3	1.89	0.55
2:D:40:ALA:HB3	2:D:43:LYS:HG2	1.89	0.55
1:A:41:LYS:CB	1:A:41:LYS:HE2	2.36	0.55
1:A:41:LYS:CB	1:C:563:GLN:HA	2.37	0.55
1:B:353:TRP:O	1:B:466:ARG:NE	2.39	0.55
1:B:1014:ARG:HD2	1:B:1014:ARG:N	2.01	0.55
1:C:88:ASP:OD1	1:C:270:LEU:O	2.24	0.55
1:C:551:VAL:O	1:C:588:THR:OG1	2.16	0.55
2:D:34:LYS:HD3	2:D:78:VAL:HG11	1.89	0.55
1:A:435:ALA:HA	1:A:510:VAL:HG22	1.89	0.55
1:A:963:VAL:O	1:A:966:LEU:HD23	2.06	0.55
1:A:1091:ARG:HE	1:A:1119:ASN:HA	1.72	0.55
1:B:78:ARG:NH2	1:B:80:ASP:CA	2.65	0.55
1:B:88:ASP:OD1	1:B:270:LEU:O	2.24	0.55
1:B:320:VAL:HB	1:B:590:CYS:SG	2.46	0.55
1:B:699:LEU:HB2	1:C:788:ILE:CD1	2.36	0.55
1:A:117:LEU:HB2	1:A:130:VAL:HG23	1.87	0.55
1:A:145:TYR:CD1	1:A:152:TRP:CD2	2.94	0.55
1:A:384:PRO:O	1:A:387:LEU:HD23	2.07	0.55
1:A:402:ILE:HG22	1:A:418:ILE:HG21	1.89	0.55
1:A:699:LEU:CD1	1:B:872:GLN:OE1	2.56	0.55
1:B:279:TYR:HA	1:B:284:THR:O	2.07	0.55
1:B:971:GLY:N	1:C:756:TYR:HA	2.22	0.55
1:A:560:LEU:O	1:A:577:ARG:NH1	2.37	0.54
1:A:567:ARG:CG	1:B:44:ARG:HH22	2.20	0.54
1:B:78:ARG:C	1:B:78:ARG:CD	2.64	0.54
1:C:316:SER:O	1:C:595:VAL:N	2.39	0.54
1:C:771:ALA:CA	1:C:774:GLN:OE1	2.52	0.54
1:A:79:PHE:CE2	1:A:244:LEU:HD22	2.43	0.54
1:A:699:LEU:CD1	1:B:872:GLN:NE2	2.70	0.54
1:B:433:VAL:CG1	1:B:512:VAL:HG22	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:897:PRO:CG	1:B:900:MET:HG2	2.37	0.54
1:C:79:PHE:CE2	1:C:244:LEU:HD22	2.43	0.54
1:C:84:LEU:HA	1:C:237:ARG:HH11	1.72	0.54
1:C:452:LEU:HB3	1:C:454:ARG:HH22	1.72	0.54
1:A:316:SER:O	1:A:595:VAL:N	2.39	0.54
1:A:710:ASN:OD1	1:A:710:ASN:N	2.38	0.54
1:A:718:PHE:HD2	1:A:719:THR:O	1.90	0.54
1:C:199:GLY:O	1:C:231:ILE:N	2.29	0.54
1:C:612:TYR:O	1:C:648:GLY:HA3	2.08	0.54
1:C:1084:ASP:HB2	1:C:1086:LYS:HG2	1.88	0.54
1:A:111:ASP:HA	1:A:134:GLN:HA	1.87	0.54
1:A:455:LEU:HD21	1:A:493:GLN:HB3	1.90	0.54
1:A:618:THR:HG1	1:A:619:GLU:CD	2.09	0.54
1:A:651:ILE:CG2	1:A:651:ILE:C	2.76	0.54
1:A:897:PRO:CG	1:A:900:MET:HG2	2.37	0.54
1:A:1084:ASP:HB2	1:A:1086:LYS:HG2	1.88	0.54
1:B:79:PHE:CE2	1:B:244:LEU:HD22	2.43	0.54
1:B:718:PHE:HD2	1:B:719:THR:O	1.90	0.54
1:C:327:VAL:HG23	1:C:530:SER:CA	2.37	0.54
1:C:670:ILE:CG2	1:C:670:ILE:CG1	2.80	0.54
1:C:1014:ARG:O	1:C:1018:ILE:HG12	2.06	0.54
1:A:37:TYR:HD1	1:A:55:PHE:HZ	1.52	0.54
1:A:44:ARG:HH22	1:C:567:ARG:HB3	1.70	0.54
1:A:816:SER:OG	1:A:819:GLU:HG3	2.08	0.54
1:B:726:ILE:HD12	1:B:1061:VAL:HG22	1.90	0.54
1:C:112:SER:HB2	1:C:132:GLU:HG2	1.90	0.54
1:C:569:ILE:O	1:C:570:ALA:HB3	2.08	0.54
1:C:618:THR:HG1	1:C:619:GLU:CD	2.10	0.54
1:C:796:ASP:OD2	1:C:796:ASP:N	2.40	0.54
1:C:942:PRO:O	1:C:943:SER:OG	2.19	0.54
1:A:112:SER:HB2	1:A:132:GLU:HG2	1.90	0.54
1:A:118:LEU:HD23	1:A:129:LYS:O	2.07	0.54
1:B:651:ILE:CG2	1:B:651:ILE:C	2.76	0.54
1:C:48:LEU:HD12	1:C:305:SER:HA	1.90	0.54
1:C:279:TYR:HA	1:C:284:THR:O	2.07	0.54
1:C:726:ILE:HD12	1:C:1061:VAL:HG22	1.90	0.54
1:C:897:PRO:CG	1:C:900:MET:HG2	2.37	0.54
1:B:118:LEU:HD23	1:B:129:LYS:O	2.07	0.54
1:B:612:TYR:O	1:B:648:GLY:HA3	2.08	0.54
1:C:404:GLY:HA2	1:C:407:VAL:HG13	1.88	0.54
1:C:555:SER:O	1:C:584:ILE:HD13	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:726:ILE:HD12	1:A:1061:VAL:HG22	1.90	0.54
1:A:1109:PHE:HD1	1:A:1110:TYR:H	1.53	0.54
1:B:48:LEU:HD12	1:B:305:SER:HA	1.90	0.54
1:B:1040:VAL:HG21	1:C:1035:GLY:HA3	1.90	0.54
1:B:1081:ILE:HG12	1:B:1135:ASN:HB3	1.89	0.54
1:C:118:LEU:HD23	1:C:129:LYS:O	2.07	0.54
1:C:472:ILE:HD12	1:C:488:CYS:HB3	1.89	0.54
2:D:90:THR:HG23	2:D:116:THR:HA	1.90	0.54
1:A:115:GLN:HE21	1:A:165:ASN:HB2	1.73	0.54
1:A:133:PHE:HD1	1:A:162:SER:N	2.04	0.54
1:A:365:TYR:CB	1:A:387:LEU:HD22	2.37	0.54
1:A:796:ASP:OD2	1:A:796:ASP:N	2.40	0.54
1:A:805:ILE:HG13	1:A:806:LEU:HD23	1.90	0.54
1:B:562:PHE:CD2	1:C:225:PRO:HG2	2.42	0.54
1:B:1109:PHE:HD1	1:B:1110:TYR:H	1.53	0.54
1:C:92:PHE:CE1	1:C:265:TYR:HB2	2.43	0.54
1:C:115:GLN:HE21	1:C:165:ASN:HB2	1.73	0.54
1:C:386:LYS:O	1:C:390:LEU:HD13	2.08	0.54
1:C:718:PHE:HD2	1:C:719:THR:O	1.90	0.54
1:B:281:GLU:CD	4:B:1304:NAG:C7	2.76	0.54
1:B:618:THR:HG1	1:B:619:GLU:CD	2.11	0.54
4:B:1304:NAG:C1	4:B:1304:NAG:C8	2.85	0.54
1:C:1047:TYR:HB3	1:C:1067:TYR:HB3	1.90	0.54
1:B:318:PHE:CD2	1:B:319:ARG:N	2.77	0.53
1:C:193:VAL:HG23	1:C:223:LEU:HD12	1.90	0.53
1:C:767:LEU:HA	1:C:770:ILE:HD12	1.91	0.53
1:C:930:ALA:O	1:C:934:ILE:HG12	2.08	0.53
1:A:36:VAL:HA	1:A:55:PHE:HE2	1.74	0.53
1:A:1038:LYS:HD3	1:A:1038:LYS:N	2.23	0.53
1:B:153:MET:CE	4:B:1302:NAG:O3	2.56	0.53
1:C:453:TYR:CD1	1:C:454:ARG:N	2.76	0.53
1:C:1038:LYS:N	1:C:1038:LYS:HD3	2.23	0.53
1:C:1083:HIS:O	1:C:1086:LYS:HB2	2.08	0.53
2:D:44:GLU:HG2	2:D:45:ARG:N	2.23	0.53
2:D:105:THR:HG22	2:D:106:PHE:H	1.73	0.53
1:A:92:PHE:CE1	1:A:265:TYR:HB2	2.43	0.53
1:A:253:ASP:OD2	1:A:256:SER:OG	2.26	0.53
1:A:1106:GLN:OE1	1:A:1111:GLU:HB3	2.09	0.53
1:B:563:GLN:CG	1:C:41:LYS:CG	2.87	0.53
1:C:282:ASN:OD1	1:C:284:THR:HG23	2.07	0.53
1:C:329:PHE:O	1:C:580:GLN:HG3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:651:ILE:CG2	1:C:651:ILE:C	2.76	0.53
1:C:1091:ARG:HE	1:C:1119:ASN:HA	1.72	0.53
2:D:34:LYS:HD3	2:D:78:VAL:CG1	2.39	0.53
2:D:48:VAL:HG13	2:D:63:VAL:HG21	1.89	0.53
2:D:67:LEU:HD11	2:D:80:LEU:CD1	2.38	0.53
1:A:48:LEU:HD12	1:A:305:SER:HA	1.90	0.53
1:A:871:ALA:O	1:A:874:THR:OG1	2.23	0.53
1:A:1083:HIS:O	1:A:1086:LYS:HB2	2.08	0.53
1:B:112:SER:HB2	1:B:132:GLU:HG2	1.90	0.53
1:B:115:GLN:HE21	1:B:165:ASN:HB2	1.73	0.53
1:B:192:PHE:HD1	1:B:205:SER:HG	1.54	0.53
1:B:253:ASP:OD2	1:B:256:SER:OG	2.26	0.53
1:B:282:ASN:OD1	1:B:284:THR:HG23	2.07	0.53
1:B:316:SER:O	1:B:595:VAL:N	2.39	0.53
1:B:767:LEU:HA	1:B:770:ILE:HD12	1.90	0.53
1:B:1106:GLN:OE1	1:B:1111:GLU:HB3	2.08	0.53
1:C:450:ASN:HB3	2:D:53:ALA:H	1.73	0.53
1:C:452:LEU:HD21	2:D:98:SER:HB3	1.91	0.53
1:C:805:ILE:HG13	1:C:806:LEU:HD23	1.90	0.53
1:A:193:VAL:HG23	1:A:223:LEU:HD12	1.90	0.53
1:A:373:SER:OG	4:A:1304:NAG:O3	2.24	0.53
1:A:786:LYS:N	1:A:786:LYS:HD2	2.23	0.53
1:A:930:ALA:O	1:A:934:ILE:HG12	2.08	0.53
1:A:1081:ILE:HG12	1:A:1135:ASN:HB3	1.89	0.53
1:C:48:LEU:HD21	1:C:278:LYS:HZ3	1.74	0.53
1:C:64:TRP:CD1	1:C:266:TYR:CE1	2.97	0.53
1:C:328:ARG:NH2	1:C:329:PHE:O	2.42	0.53
1:A:64:TRP:CD1	1:A:266:TYR:CE1	2.97	0.53
1:A:318:PHE:CD2	1:A:319:ARG:N	2.77	0.53
1:A:566:GLY:HA3	1:B:43:PHE:HB2	1.91	0.53
1:A:612:TYR:O	1:A:648:GLY:HA3	2.08	0.53
1:A:767:LEU:HA	1:A:770:ILE:HD12	1.91	0.53
1:B:746:SER:O	1:B:749:CYS:HB2	2.09	0.53
1:B:816:SER:OG	1:B:819:GLU:HG3	2.07	0.53
1:B:930:ALA:O	1:B:934:ILE:HG12	2.08	0.53
1:C:84:LEU:CA	1:C:237:ARG:NH1	2.71	0.53
1:C:120:VAL:HG12	1:C:127:VAL:HG23	1.87	0.53
1:C:1071:GLN:NE2	1:C:1071:GLN:CB	2.67	0.53
2:D:34:LYS:CD	2:D:78:VAL:HG11	2.38	0.53
1:A:41:LYS:HB3	1:C:563:GLN:NE2	2.24	0.53
1:A:140:PHE:CE2	1:A:244:LEU:HD21	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:282:ASN:OD1	1:A:284:THR:HG23	2.07	0.53
1:B:36:VAL:HA	1:B:55:PHE:HE2	1.74	0.53
1:B:48:LEU:HD21	1:B:278:LYS:NZ	2.24	0.53
1:B:78:ARG:CD	1:B:78:ARG:O	2.57	0.53
1:B:140:PHE:CE2	1:B:244:LEU:HD21	2.44	0.53
1:B:616:ASN:OD1	4:B:1308:NAG:C7	2.56	0.53
1:B:771:ALA:CA	1:B:774:GLN:OE1	2.52	0.53
1:B:796:ASP:OD2	1:B:796:ASP:N	2.40	0.53
1:C:318:PHE:CD2	1:C:319:ARG:N	2.77	0.53
1:C:344:ALA:O	1:C:509:ARG:NH1	2.42	0.53
1:C:495:TYR:O	1:C:505:TYR:CZ	2.61	0.53
1:A:84:LEU:CA	1:A:237:ARG:NH1	2.71	0.53
1:A:817:PHE:HD1	1:A:935:GLN:HE22	1.56	0.53
1:A:1047:TYR:HB3	1:A:1067:TYR:HB3	1.90	0.53
1:B:193:VAL:HG23	1:B:223:LEU:HD12	1.90	0.53
1:B:948:LEU:CD1	1:B:948:LEU:CD2	2.82	0.53
1:B:1038:LYS:HD3	1:B:1038:LYS:N	2.23	0.53
1:B:1047:TYR:HB3	1:B:1067:TYR:HB3	1.90	0.53
1:B:1083:HIS:O	1:B:1086:LYS:HB2	2.08	0.53
1:C:403:ARG:HD2	1:C:495:TYR:CD1	2.44	0.53
1:C:511:VAL:HG12	1:C:513:LEU:HD11	1.90	0.53
1:C:644:GLN:CD	4:C:1305:NAG:O7	2.45	0.53
1:C:816:SER:OG	1:C:819:GLU:HG3	2.07	0.53
1:C:1081:ILE:HG12	1:C:1135:ASN:HB3	1.89	0.53
1:A:92:PHE:HE1	1:A:265:TYR:HB2	1.72	0.53
1:A:206:LYS:HD3	1:A:224:GLU:CD	2.29	0.53
1:A:454:ARG:NH1	1:A:456:PHE:O	2.38	0.53
1:B:898:PHE:O	1:B:902:MET:HG3	2.09	0.53
1:C:140:PHE:CE2	1:C:244:LEU:HD21	2.44	0.53
1:C:717:ASN:N	1:C:1070:ALA:O	2.35	0.53
1:C:786:LYS:N	1:C:786:LYS:HD2	2.23	0.53
1:C:1109:PHE:CD1	1:C:1110:TYR:N	2.77	0.53
2:D:67:LEU:HD11	2:D:80:LEU:HD21	1.91	0.53
1:A:390:LEU:HD23	1:A:391:CYS:N	2.24	0.53
1:A:553:THR:HG23	1:A:586:ASP:HB3	1.91	0.53
1:B:92:PHE:CE1	1:B:265:TYR:HB2	2.43	0.53
1:C:452:LEU:CD1	2:D:33:ARG:HB2	2.39	0.53
1:C:528:LYS:HA	1:C:529:LYS:HB2	1.91	0.53
1:C:714:ILE:HG22	1:C:715:PRO:HD2	1.91	0.53
1:A:393:THR:HG22	1:A:522:ALA:HB2	1.90	0.52
1:A:560:LEU:HD21	1:B:284:THR:HG22	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1082:CYS:N	1:A:1133:VAL:O	2.38	0.52
1:B:206:LYS:HD3	1:B:224:GLU:CD	2.30	0.52
1:B:703:ASN:O	1:C:790:LYS:N	2.35	0.52
1:B:1101:HIS:CE1	4:B:1312:NAG:H4	2.44	0.52
1:C:97:LYS:NZ	1:C:185:ASN:O	2.41	0.52
1:C:318:PHE:C	1:C:318:PHE:CD2	2.82	0.52
1:C:401:VAL:HG13	1:C:442:ASP:OD2	2.09	0.52
1:C:948:LEU:CD1	1:C:948:LEU:HB2	2.39	0.52
1:A:78:ARG:CD	1:A:78:ARG:O	2.57	0.52
1:A:714:ILE:HG22	1:A:715:PRO:HD2	1.91	0.52
1:B:28:TYR:CD1	4:B:1307:NAG:H5	2.45	0.52
1:B:786:LYS:HD2	1:B:786:LYS:N	2.23	0.52
1:B:805:ILE:HG13	1:B:806:LEU:HD23	1.90	0.52
1:B:922:LEU:O	1:B:926:GLN:OE1	2.27	0.52
1:B:961:THR:O	1:B:965:GLN:HG2	2.10	0.52
1:B:1082:CYS:N	1:B:1133:VAL:O	2.38	0.52
1:C:78:ARG:CD	1:C:78:ARG:O	2.57	0.52
2:D:99:VAL:HG11	2:D:102:PHE:HD2	1.75	0.52
1:A:318:PHE:C	1:A:318:PHE:CD2	2.82	0.52
1:A:559:PHE:CD1	1:A:584:ILE:CG1	2.93	0.52
1:A:559:PHE:N	1:A:559:PHE:HD1	2.07	0.52
1:A:594:GLY:H	1:A:613:GLN:HB3	1.74	0.52
1:A:1109:PHE:CD1	1:A:1110:TYR:N	2.77	0.52
1:B:37:TYR:HD1	1:B:55:PHE:HZ	1.52	0.52
1:B:64:TRP:CD1	1:B:266:TYR:CE1	2.97	0.52
1:B:449:TYR:O	1:B:494:SER:OG	2.27	0.52
1:B:1109:PHE:CD1	1:B:1110:TYR:N	2.77	0.52
1:C:253:ASP:OD2	1:C:256:SER:OG	2.26	0.52
1:C:329:PHE:C	1:C:580:GLN:CG	2.77	0.52
1:A:92:PHE:N	1:A:192:PHE:O	2.27	0.52
1:A:97:LYS:NZ	1:A:185:ASN:O	2.41	0.52
1:A:746:SER:O	1:A:749:CYS:HB2	2.09	0.52
1:A:961:THR:O	1:A:965:GLN:HG2	2.09	0.52
1:B:577:ARG:CG	1:B:584:ILE:HD13	2.40	0.52
1:C:48:LEU:HD21	1:C:278:LYS:NZ	2.24	0.52
1:C:403:ARG:CD	1:C:495:TYR:CD1	2.92	0.52
1:C:922:LEU:O	1:C:926:GLN:OE1	2.27	0.52
1:C:961:THR:O	1:C:965:GLN:HG2	2.10	0.52
1:A:84:LEU:O	1:A:238:PHE:N	2.31	0.52
1:A:206:LYS:NZ	1:A:221:SER:OG	2.25	0.52
1:A:341:VAL:HG11	1:A:513:LEU:HD21	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:717:ASN:N	1:A:1070:ALA:O	2.35	0.52
1:A:1102:TRP:HD1	1:A:1135:ASN:ND2	2.08	0.52
1:B:501:ASN:O	1:B:506:GLN:NE2	2.40	0.52
1:C:105:ILE:N	1:C:239:GLN:O	2.39	0.52
1:C:452:LEU:HD21	2:D:98:SER:HB2	1.92	0.52
1:C:715:PRO:CG	1:C:1069:PRO:HB2	2.40	0.52
1:C:746:SER:O	1:C:749:CYS:HB2	2.09	0.52
1:C:817:PHE:HD1	1:C:935:GLN:HE22	1.56	0.52
1:C:1088:HIS:HA	1:C:1122:VAL:HG23	1.91	0.52
1:A:17:ASN:O	3:E:2:NAG:H82	2.09	0.52
1:A:103:GLY:HA2	1:A:104:TRP:CE3	2.45	0.52
1:A:366:SER:OG	1:A:388:ASN:OD1	2.27	0.52
1:A:1002:GLN:O	1:A:1003:SER:C	2.48	0.52
1:B:714:ILE:HG22	1:B:715:PRO:HD2	1.91	0.52
1:C:36:VAL:HA	1:C:55:PHE:HE2	1.74	0.52
1:C:127:VAL:HG12	3:G:1:NAG:H5	1.91	0.52
1:C:594:GLY:H	1:C:613:GLN:HB3	1.74	0.52
1:A:48:LEU:HD21	1:A:278:LYS:NZ	2.24	0.52
1:B:103:GLY:HA2	1:B:104:TRP:CE3	2.45	0.52
1:B:318:PHE:C	1:B:318:PHE:CD2	2.82	0.52
1:B:568:ASP:N	1:B:568:ASP:OD1	2.43	0.52
1:B:701:ALA:O	1:C:788:ILE:N	2.42	0.52
1:C:454:ARG:NE	1:C:492:LEU:HD13	2.25	0.52
1:A:64:TRP:NE1	1:A:266:TYR:CZ	2.78	0.52
1:A:592:PHE:CZ	1:B:857:GLY:HA2	2.43	0.52
1:B:421:TYR:O	1:B:461:LEU:HD21	2.10	0.52
1:C:192:PHE:HD1	1:C:205:SER:HG	1.56	0.52
1:C:306:PHE:HD2	1:C:306:PHE:O	1.93	0.52
1:A:581:THR:HG23	4:A:1303:NAG:H81	1.91	0.52
1:B:48:LEU:CD2	1:B:278:LYS:HD2	2.40	0.52
1:C:48:LEU:CD2	1:C:278:LYS:HD2	2.40	0.52
1:C:430:THR:O	1:C:515:PHE:N	2.35	0.52
1:C:449:TYR:N	2:D:53:ALA:HB2	2.25	0.52
1:A:416:GLY:O	1:A:420:ASP:N	2.40	0.52
1:A:616:ASN:C	1:A:619:GLU:OE2	2.48	0.52
1:A:711:SER:HA	1:A:1076:THR:HA	1.92	0.52
1:A:898:PHE:O	1:A:902:MET:HG3	2.09	0.52
1:B:776:LYS:O	1:B:780:GLU:HG2	2.10	0.52
1:C:64:TRP:NE1	1:C:266:TYR:CZ	2.78	0.52
1:C:102:ARG:O	1:C:121:ASN:N	2.43	0.52
1:C:131:CYS:SG	1:C:165:ASN:O	2.68	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:206:LYS:HD3	1:C:224:GLU:CD	2.30	0.52
1:C:246:ARG:CZ	1:C:254:SER:HA	2.40	0.52
1:C:768:THR:O	1:C:772:VAL:HG22	2.10	0.52
1:C:776:LYS:O	1:C:780:GLU:HG2	2.10	0.52
1:A:246:ARG:CZ	1:A:254:SER:HA	2.40	0.51
1:A:566:GLY:HA2	1:B:43:PHE:HB2	1.92	0.51
1:A:580:GLN:O	4:A:1303:NAG:H82	2.09	0.51
1:A:717:ASN:O	1:A:1070:ALA:N	2.39	0.51
1:A:776:LYS:O	1:A:780:GLU:HG2	2.10	0.51
1:B:594:GLY:H	1:B:613:GLN:HB3	1.74	0.51
1:B:616:ASN:C	1:B:619:GLU:OE2	2.48	0.51
1:B:811:LYS:HD2	1:B:814:LYS:HG2	1.91	0.51
1:B:1051:SER:OG	1:B:1064:HIS:CG	2.63	0.51
1:B:1088:HIS:HA	1:B:1122:VAL:HG23	1.91	0.51
1:C:905:ARG:HH12	1:C:1050:MET:HB2	1.75	0.51
1:C:937:SER:O	1:C:941:THR:OG1	2.29	0.51
1:C:1106:GLN:OE1	1:C:1111:GLU:HB3	2.09	0.51
1:A:131:CYS:SG	1:A:165:ASN:O	2.68	0.51
1:A:715:PRO:CG	1:A:1069:PRO:HB2	2.40	0.51
1:A:927:PHE:O	1:A:931:ILE:HG12	2.10	0.51
1:B:131:CYS:SG	1:B:165:ASN:O	2.68	0.51
1:B:310:LYS:C	1:B:310:LYS:HD3	2.31	0.51
1:B:768:THR:O	1:B:772:VAL:HG22	2.10	0.51
1:B:948:LEU:CD1	1:B:948:LEU:HB2	2.39	0.51
1:C:927:PHE:O	1:C:931:ILE:HG12	2.11	0.51
1:B:357:ARG:O	1:B:358:ILE:HD13	2.11	0.51
1:B:569:ILE:O	1:B:572:THR:HG22	2.10	0.51
1:B:711:SER:HA	1:B:1076:THR:HA	1.92	0.51
1:B:1002:GLN:O	1:B:1003:SER:C	2.48	0.51
1:B:1102:TRP:HD1	1:B:1135:ASN:ND2	2.07	0.51
1:C:41:LYS:CB	1:C:41:LYS:O	2.43	0.51
1:A:567:ARG:NH2	1:A:573:THR:OG1	2.43	0.51
1:A:578:ASP:N	1:A:583:GLU:O	2.41	0.51
1:A:768:THR:O	1:A:772:VAL:HG22	2.10	0.51
1:A:786:LYS:N	1:A:786:LYS:CD	2.74	0.51
1:A:933:LYS:NZ	1:A:933:LYS:HG2	2.26	0.51
1:A:1019:ARG:O	1:A:1023:ASN:OD1	2.28	0.51
1:B:306:PHE:O	1:B:306:PHE:HD2	1.93	0.51
1:B:573:THR:HG21	1:B:576:VAL:HB	1.92	0.51
1:B:817:PHE:HD1	1:B:935:GLN:HE22	1.56	0.51
1:C:392:PHE:HA	1:C:517:LEU:HD13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:403:ARG:HD3	1:C:495:TYR:CE1	2.46	0.51
1:C:494:SER:HB2	2:D:102:PHE:O	2.10	0.51
1:C:716:THR:HG22	1:C:1110:TYR:HB3	1.92	0.51
1:C:953:ASN:O	1:C:957:GLN:HG3	2.10	0.51
1:C:1050:MET:CG	1:C:1051:SER:N	2.50	0.51
1:A:306:PHE:HD2	1:A:306:PHE:O	1.93	0.51
1:A:1051:SER:OG	1:A:1064:HIS:CG	2.63	0.51
1:A:1074:ASN:OD1	1:A:1074:ASN:N	2.39	0.51
1:B:64:TRP:NE1	1:B:266:TYR:CZ	2.78	0.51
1:B:543:PHE:N	1:B:546:LEU:O	2.40	0.51
1:B:1074:ASN:OD1	1:B:1074:ASN:N	2.39	0.51
1:C:133:PHE:HE1	1:C:160:TYR:HD2	1.52	0.51
1:C:786:LYS:N	1:C:786:LYS:CD	2.74	0.51
1:C:1102:TRP:HD1	1:C:1135:ASN:ND2	2.07	0.51
1:A:544:ASN:ND2	1:A:544:ASN:O	2.44	0.51
1:A:559:PHE:CD1	1:A:559:PHE:N	2.78	0.51
1:A:922:LEU:O	1:A:926:GLN:OE1	2.27	0.51
1:A:948:LEU:CD1	1:A:948:LEU:HB2	2.39	0.51
1:A:1088:HIS:HA	1:A:1122:VAL:HG23	1.91	0.51
1:B:42:VAL:CG1	1:B:42:VAL:HA	2.37	0.51
1:B:102:ARG:O	1:B:121:ASN:N	2.43	0.51
1:B:454:ARG:HH11	1:B:454:ARG:HG3	1.76	0.51
1:B:716:THR:HG22	1:B:1110:TYR:HB3	1.92	0.51
1:B:933:LYS:NZ	1:B:933:LYS:HG2	2.26	0.51
1:C:310:LYS:HD3	1:C:310:LYS:C	2.31	0.51
1:C:988:GLU:HA	1:C:991:VAL:HG12	1.92	0.51
1:A:389:ASP:N	1:A:389:ASP:OD1	2.44	0.51
1:A:402:ILE:CG2	1:A:418:ILE:HG21	2.40	0.51
1:A:443:SER:OG	1:A:498:GLN:N	2.43	0.51
1:A:615:VAL:HG12	1:A:616:ASN:O	2.11	0.51
1:B:717:ASN:N	1:B:1070:ALA:O	2.35	0.51
1:C:403:ARG:HG2	1:C:495:TYR:CZ	2.46	0.51
1:C:449:TYR:CA	2:D:53:ALA:HB2	2.39	0.51
1:C:535:LYS:CA	1:C:552:LEU:HD23	2.40	0.51
1:C:551:VAL:N	1:C:588:THR:O	2.37	0.51
1:C:717:ASN:O	1:C:1070:ALA:N	2.39	0.51
1:C:811:LYS:HD2	1:C:814:LYS:HG2	1.91	0.51
1:C:898:PHE:O	1:C:902:MET:HG3	2.09	0.51
1:C:1051:SER:OG	1:C:1064:HIS:CG	2.63	0.51
1:A:48:LEU:CD2	1:A:278:LYS:HD2	2.40	0.51
1:A:805:ILE:HA	1:A:816:SER:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:932:GLY:O	1:A:935:GLN:HB3	2.11	0.51
1:B:667:GLY:HA2	1:C:864:LEU:HD12	1.91	0.51
1:B:786:LYS:N	1:B:786:LYS:CD	2.74	0.51
1:B:896:ILE:HD13	1:B:901:GLN:HB3	1.92	0.51
1:B:1019:ARG:O	1:B:1023:ASN:OD1	2.29	0.51
1:C:103:GLY:HA2	1:C:104:TRP:CE3	2.45	0.51
1:C:552:LEU:H	1:C:552:LEU:HD22	1.75	0.51
1:C:565:PHE:HD1	1:C:565:PHE:H	1.57	0.51
1:A:388:ASN:O	1:A:528:LYS:NZ	2.44	0.51
1:A:564:GLN:H	1:B:41:LYS:HB2	1.76	0.51
1:A:896:ILE:HD13	1:A:901:GLN:HB3	1.92	0.51
1:A:905:ARG:HH12	1:A:1050:MET:HB2	1.75	0.51
1:B:562:PHE:O	1:C:41:LYS:CD	2.59	0.51
1:B:819:GLU:HA	1:B:822:LEU:HG	1.92	0.51
1:B:905:ARG:HH12	1:B:1050:MET:HB2	1.75	0.51
1:C:855:PHE:N	1:C:858:LEU:O	2.44	0.51
1:C:932:GLY:O	1:C:935:GLN:HB3	2.11	0.51
3:H:2:NAG:O7	3:H:2:NAG:O3	2.24	0.51
1:A:811:LYS:HD2	1:A:814:LYS:HG2	1.92	0.51
1:A:1012:LEU:HD13	1:C:1013:ILE:HD13	1.93	0.51
1:B:490:PHE:CE2	1:B:492:LEU:HD13	2.46	0.51
1:B:715:PRO:CG	1:B:1069:PRO:HB2	2.40	0.51
1:B:937:SER:O	1:B:941:THR:OG1	2.29	0.51
1:C:451:TYR:N	2:D:32:CYS:HB2	2.26	0.51
1:C:616:ASN:C	1:C:619:GLU:OE2	2.48	0.51
1:A:919:ASN:O	1:A:923:ILE:HG12	2.11	0.50
1:A:1014:ARG:N	1:A:1014:ARG:CD	2.70	0.50
1:B:49:HIS:O	1:B:277:LEU:HD23	2.11	0.50
1:B:199:GLY:O	1:B:231:ILE:N	2.29	0.50
1:B:927:PHE:O	1:B:931:ILE:HG12	2.10	0.50
1:C:538:CYS:HA	1:C:551:VAL:HG22	1.92	0.50
1:C:615:VAL:HG12	1:C:616:ASN:O	2.11	0.50
1:C:1082:CYS:N	1:C:1133:VAL:O	2.38	0.50
1:B:78:ARG:O	1:B:78:ARG:NE	2.44	0.50
1:B:871:ALA:O	1:B:874:THR:OG1	2.23	0.50
1:C:805:ILE:HA	1:C:816:SER:HB2	1.93	0.50
1:A:287:ASP:OD2	1:A:287:ASP:C	2.45	0.50
1:A:565:PHE:HB3	1:A:576:VAL:HG23	1.93	0.50
1:A:819:GLU:HA	1:A:822:LEU:HG	1.92	0.50
1:B:40:ASP:O	1:B:41:LYS:NZ	2.42	0.50
1:B:615:VAL:HG12	1:B:616:ASN:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:988:GLU:HA	1:B:991:VAL:HG12	1.92	0.50
1:C:452:LEU:HD11	2:D:33:ARG:HB2	1.93	0.50
1:C:711:SER:HA	1:C:1076:THR:HA	1.92	0.50
1:C:896:ILE:HD13	1:C:901:GLN:HB3	1.92	0.50
1:C:916:LEU:O	1:C:920:GLN:N	2.45	0.50
1:A:78:ARG:O	1:A:78:ARG:NE	2.44	0.50
1:A:553:THR:N	1:A:586:ASP:O	2.44	0.50
1:A:902:MET:O	1:A:906:PHE:HD1	1.95	0.50
1:B:246:ARG:CZ	1:B:254:SER:HA	2.40	0.50
1:B:562:PHE:CE2	1:C:225:PRO:CG	2.91	0.50
1:B:855:PHE:N	1:B:858:LEU:O	2.44	0.50
1:B:932:GLY:O	1:B:935:GLN:HB3	2.11	0.50
1:B:953:ASN:O	1:B:957:GLN:HG3	2.10	0.50
1:C:65:PHE:HD2	1:C:265:TYR:O	1.94	0.50
1:C:933:LYS:NZ	1:C:933:LYS:HG2	2.26	0.50
1:A:49:HIS:O	1:A:277:LEU:HD23	2.11	0.50
1:A:102:ARG:O	1:A:121:ASN:N	2.43	0.50
1:A:310:LYS:C	1:A:310:LYS:HD3	2.31	0.50
1:B:228:ASP:OD1	1:B:228:ASP:N	2.44	0.50
1:B:919:ASN:O	1:B:923:ILE:HG12	2.11	0.50
1:B:1142:GLN:O	1:B:1145:LEU:HB3	2.12	0.50
1:C:49:HIS:O	1:C:277:LEU:HD23	2.11	0.50
1:C:1002:GLN:O	1:C:1003:SER:C	2.48	0.50
1:C:1117:THR:OG1	1:C:1139:ASP:HA	2.12	0.50
1:A:92:PHE:CZ	1:A:265:TYR:HD2	2.30	0.50
1:A:100:ILE:O	1:A:242:LEU:HB2	2.12	0.50
1:A:881:THR:O	1:A:885:GLY:N	2.43	0.50
1:B:802:PHE:CE2	1:B:805:ILE:HD11	2.47	0.50
1:C:228:ASP:N	1:C:228:ASP:OD1	2.44	0.50
1:C:453:TYR:CE2	1:C:455:LEU:CG	2.94	0.50
1:C:919:ASN:O	1:C:923:ILE:HG12	2.11	0.50
1:A:117:LEU:HD12	1:A:118:LEU:H	1.77	0.50
1:A:323:THR:O	1:A:539:VAL:HG13	2.11	0.50
1:A:855:PHE:N	1:A:858:LEU:O	2.44	0.50
1:A:913:GLN:HB3	1:A:917:TYR:HE1	1.77	0.50
1:A:1117:THR:OG1	1:A:1139:ASP:HA	2.12	0.50
1:B:902:MET:O	1:B:906:PHE:HD1	1.95	0.50
1:B:916:LEU:O	1:B:920:GLN:N	2.45	0.50
1:C:117:LEU:HD12	1:C:118:LEU:H	1.77	0.50
1:C:819:GLU:HA	1:C:822:LEU:HG	1.92	0.50
1:C:1019:ARG:O	1:C:1023:ASN:OD1	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:51:ILE:CG1	2:D:57:THR:HG22	2.41	0.50
1:A:566:GLY:O	1:A:574:ASP:N	2.34	0.50
1:A:716:THR:HG22	1:A:1110:TYR:HB3	1.92	0.50
1:A:825:LYS:HD3	1:A:945:LEU:CD1	2.41	0.50
1:A:988:GLU:HA	1:A:991:VAL:HG12	1.92	0.50
1:B:233:ILE:CG2	1:B:234:ASN:N	2.74	0.50
1:C:330:PRO:HA	1:C:580:GLN:OE1	2.11	0.50
2:D:38:ARG:HG2	2:D:48:VAL:CG2	2.42	0.50
1:A:201:PHE:HB3	1:A:229:LEU:HB2	1.94	0.50
1:A:350:VAL:HG22	1:A:422:ASN:HB3	1.94	0.50
1:A:362:VAL:HG12	1:A:527:PRO:HD3	1.93	0.50
1:A:773:GLU:OE1	1:A:774:GLN:HB3	2.12	0.50
1:B:326:ILE:HD12	1:B:326:ILE:N	2.26	0.50
1:B:468:ILE:O	1:B:468:ILE:HG12	2.12	0.50
1:B:715:PRO:HA	1:B:1071:GLN:O	2.12	0.50
1:B:881:THR:O	1:B:885:GLY:N	2.43	0.50
1:B:1020:ALA:HA	1:B:1023:ASN:OD1	2.12	0.50
1:C:88:ASP:OD2	1:C:88:ASP:N	2.45	0.50
1:C:92:PHE:CZ	1:C:265:TYR:HD2	2.30	0.50
1:C:127:VAL:CG1	3:G:1:NAG:H5	2.41	0.50
1:C:130:VAL:HG12	1:C:168:PHE:H	1.77	0.50
1:C:449:TYR:CD1	2:D:53:ALA:HA	2.46	0.50
1:C:454:ARG:HA	1:C:492:LEU:HB2	1.94	0.50
1:C:490:PHE:CD2	2:D:105:THR:HG23	2.46	0.50
1:C:715:PRO:HA	1:C:1071:GLN:O	2.12	0.50
1:A:41:LYS:CB	1:A:41:LYS:O	2.43	0.49
1:A:953:ASN:O	1:A:957:GLN:HG3	2.11	0.49
1:A:1116:THR:HG23	1:A:1138:TYR:CD1	2.44	0.49
1:B:100:ILE:O	1:B:242:LEU:HB2	2.12	0.49
1:B:189:LEU:CB	1:B:210:ILE:HD11	2.41	0.49
1:C:432:CYS:SG	1:C:434:ILE:HD11	2.52	0.49
1:C:726:ILE:O	1:C:726:ILE:HG22	2.12	0.49
1:C:884:SER:HG	1:C:887:THR:CB	2.24	0.49
1:C:902:MET:O	1:C:906:PHE:HD1	1.95	0.49
1:A:233:ILE:CG2	1:A:234:ASN:N	2.74	0.49
1:A:323:THR:OG1	1:A:324:GLU:OE1	2.29	0.49
1:A:373:SER:OG	4:A:1304:NAG:N2	2.45	0.49
1:A:1142:GLN:O	1:A:1145:LEU:HB3	2.12	0.49
1:B:41:LYS:CB	1:B:41:LYS:O	2.43	0.49
1:B:88:ASP:OD2	1:B:88:ASP:N	2.45	0.49
1:B:117:LEU:HD12	1:B:118:LEU:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:120:VAL:HG23	1:B:241:LEU:HB3	1.94	0.49
1:B:130:VAL:HG12	1:B:168:PHE:H	1.77	0.49
1:B:395:VAL:HG12	1:B:396:TYR:N	2.28	0.49
1:C:40:ASP:O	1:C:41:LYS:NZ	2.42	0.49
1:C:481:ASN:O	1:C:481:ASN:ND2	2.45	0.49
1:C:577:ARG:HA	1:C:584:ILE:HA	1.93	0.49
1:C:949:GLN:O	1:C:953:ASN:ND2	2.41	0.49
1:C:1083:HIS:ND1	1:C:1084:ASP:CG	2.59	0.49
1:C:1142:GLN:O	1:C:1145:LEU:HB3	2.12	0.49
1:A:57:PRO:HG3	1:A:273:ARG:HE	1.77	0.49
1:A:350:VAL:HG22	1:A:422:ASN:CB	2.42	0.49
1:A:542:ASN:HA	1:A:547:THR:HA	1.94	0.49
1:B:65:PHE:HD2	1:B:265:TYR:O	1.94	0.49
1:B:143:VAL:HG21	1:B:179:LEU:CD2	2.42	0.49
1:B:167:THR:OG1	1:B:168:PHE:N	2.45	0.49
1:B:393:THR:N	1:B:516:GLU:O	2.38	0.49
1:C:84:LEU:N	1:C:237:ARG:HH11	2.10	0.49
1:C:424:LYS:O	1:C:464:PHE:N	2.42	0.49
1:C:453:TYR:CD2	1:C:495:TYR:N	2.80	0.49
1:C:802:PHE:CE2	1:C:805:ILE:HD11	2.47	0.49
1:A:65:PHE:HD2	1:A:265:TYR:O	1.94	0.49
1:A:143:VAL:HG21	1:A:179:LEU:CD2	2.42	0.49
1:A:553:THR:HG22	1:A:588:THR:CG2	2.43	0.49
1:A:802:PHE:CE2	1:A:805:ILE:HD11	2.47	0.49
1:A:937:SER:O	1:A:941:THR:OG1	2.29	0.49
1:A:1020:ALA:HA	1:A:1023:ASN:OD1	2.12	0.49
1:A:1106:GLN:HE22	1:A:1109:PHE:HB3	1.76	0.49
1:B:197:ILE:O	1:B:198:ASP:OD2	2.31	0.49
1:B:805:ILE:HA	1:B:816:SER:HB2	1.93	0.49
1:B:825:LYS:HD3	1:B:945:LEU:CD1	2.41	0.49
1:B:905:ARG:HH22	1:B:1050:MET:HE2	1.66	0.49
1:B:1071:GLN:NE2	1:B:1071:GLN:CB	2.67	0.49
1:C:351:TYR:HB3	1:C:454:ARG:HB2	1.94	0.49
1:C:773:GLU:OE1	1:C:774:GLN:HB3	2.12	0.49
1:C:1020:ALA:HA	1:C:1023:ASN:OD1	2.12	0.49
1:A:393:THR:HG21	1:A:518:LEU:HD23	1.95	0.49
1:A:896:ILE:HD11	1:A:904:TYR:CE2	2.47	0.49
1:A:977:LEU:HA	1:A:980:ILE:HG12	1.94	0.49
1:B:92:PHE:CZ	1:B:265:TYR:HD2	2.30	0.49
1:B:560:LEU:HB3	1:B:562:PHE:HD1	1.77	0.49
1:B:1117:THR:OG1	1:B:1139:ASP:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:78:ARG:O	1:C:78:ARG:NE	2.44	0.49
1:C:287:ASP:OD1	1:C:306:PHE:CD1	2.66	0.49
1:C:496:GLY:O	1:C:505:TYR:OH	2.31	0.49
1:C:568:ASP:HB3	1:C:572:THR:HG23	1.95	0.49
1:A:84:LEU:N	1:A:237:ARG:HH11	2.10	0.49
1:A:189:LEU:CB	1:A:210:ILE:HD11	2.41	0.49
1:A:197:ILE:O	1:A:198:ASP:OD2	2.31	0.49
1:A:1088:HIS:CG	1:A:1122:VAL:HG23	2.48	0.49
1:B:568:ASP:N	1:B:572:THR:O	2.35	0.49
1:B:1054:GLN:OE1	1:B:1054:GLN:HA	2.13	0.49
1:B:1088:HIS:CG	1:B:1122:VAL:HG23	2.48	0.49
1:C:100:ILE:O	1:C:242:LEU:HB2	2.12	0.49
1:C:233:ILE:CG2	1:C:234:ASN:N	2.74	0.49
1:C:287:ASP:OD2	1:C:287:ASP:C	2.45	0.49
1:C:1088:HIS:CG	1:C:1122:VAL:HG23	2.48	0.49
1:A:94:SER:N	1:A:190:ARG:O	2.42	0.49
1:A:228:ASP:OD1	1:A:228:ASP:N	2.44	0.49
1:A:715:PRO:HA	1:A:1071:GLN:O	2.12	0.49
1:A:1054:GLN:OE1	1:A:1054:GLN:HA	2.13	0.49
1:B:133:PHE:HA	1:B:162:SER:O	2.13	0.49
1:B:511:VAL:HG12	1:B:513:LEU:CD1	2.43	0.49
1:B:558:LYS:HG3	1:C:43:PHE:HE1	1.78	0.49
1:B:773:GLU:OE1	1:B:774:GLN:HB3	2.12	0.49
1:C:167:THR:OG1	1:C:168:PHE:N	2.45	0.49
1:C:197:ILE:O	1:C:198:ASP:OD2	2.31	0.49
1:C:397:ALA:HB1	1:C:511:VAL:HG13	1.94	0.49
1:C:741:TYR:CZ	1:C:966:LEU:HB3	2.48	0.49
1:B:94:SER:HA	1:B:265:TYR:HA	1.94	0.49
1:B:233:ILE:HG21	1:B:235:ILE:HG13	1.94	0.49
1:C:57:PRO:HG3	1:C:273:ARG:HE	1.77	0.49
1:C:906:PHE:HA	1:C:909:ILE:HG12	1.95	0.49
1:C:1074:ASN:OD1	1:C:1074:ASN:N	2.39	0.49
1:A:562:PHE:O	1:A:564:GLN:OE1	2.30	0.49
1:B:644:GLN:HA	1:B:649:CYS:HA	1.95	0.49
1:B:718:PHE:HA	1:B:1068:VAL:O	2.13	0.49
1:B:741:TYR:CZ	1:B:966:LEU:HB3	2.48	0.49
1:B:913:GLN:HB3	1:B:917:TYR:HE1	1.77	0.49
1:B:1010:GLN:O	1:B:1014:ARG:HD3	2.13	0.49
1:C:120:VAL:HG23	1:C:241:LEU:HB3	1.94	0.49
1:C:145:TYR:CE1	1:C:152:TRP:CE2	3.01	0.49
1:C:201:PHE:HB3	1:C:229:LEU:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:ARG:HD3	1:C:258:TRP:HB3	1.95	0.49
1:C:1049:LEU:HG	1:C:1066:THR:HA	1.95	0.49
2:D:40:ALA:HB3	2:D:43:LYS:CD	2.42	0.49
2:D:52:THR:CG2	2:D:56:ALA:HB3	2.43	0.49
2:D:75:LYS:O	2:D:77:THR:HG23	2.13	0.49
1:A:826:VAL:HG21	1:A:1057:PRO:HG2	1.95	0.49
1:A:916:LEU:O	1:A:920:GLN:N	2.45	0.49
1:B:84:LEU:CA	1:B:237:ARG:NH1	2.71	0.49
1:B:201:PHE:HB3	1:B:229:LEU:HB2	1.94	0.49
1:B:563:GLN:HA	1:C:41:LYS:CG	2.21	0.49
1:C:143:VAL:HG21	1:C:179:LEU:CD2	2.42	0.49
1:C:913:GLN:HB3	1:C:917:TYR:HE1	1.77	0.49
1:A:145:TYR:CE1	1:A:152:TRP:CE2	3.01	0.48
1:A:193:VAL:HG23	1:A:223:LEU:CD1	2.43	0.48
1:A:382:VAL:HG12	1:A:383:SER:H	1.77	0.48
1:A:390:LEU:HD22	1:A:392:PHE:CE2	2.47	0.48
1:A:703:ASN:ND2	1:B:787:GLN:CG	2.76	0.48
1:A:725:GLU:OE2	1:A:1028:LYS:NZ	2.41	0.48
1:B:145:TYR:CE1	1:B:152:TRP:CE2	3.01	0.48
1:B:153:MET:CE	4:B:1302:NAG:C4	2.81	0.48
1:B:320:VAL:CG2	1:B:591:SER:O	2.60	0.48
1:B:725:GLU:OE2	1:B:1028:LYS:NZ	2.41	0.48
1:B:896:ILE:HD11	1:B:904:TYR:CE2	2.47	0.48
1:C:453:TYR:CE2	1:C:495:TYR:CD1	3.01	0.48
1:C:977:LEU:HA	1:C:980:ILE:HG12	1.94	0.48
1:A:152:TRP:HB2	1:A:245:HIS:HE1	1.78	0.48
1:A:1010:GLN:O	1:A:1014:ARG:HD3	2.13	0.48
1:B:246:ARG:HD3	1:B:258:TRP:HB3	1.95	0.48
1:B:557:LYS:CB	1:C:43:PHE:CE2	2.94	0.48
1:B:567:ARG:O	1:C:44:ARG:NH2	2.46	0.48
1:B:726:ILE:HG22	1:B:726:ILE:O	2.13	0.48
1:B:1030:SER:HA	1:B:1034:LEU:HD12	1.96	0.48
1:C:438:SER:HA	1:C:441:LEU:HD12	1.95	0.48
1:A:103:GLY:HA3	1:A:119:ILE:O	2.14	0.48
1:A:167:THR:OG1	1:A:168:PHE:N	2.45	0.48
1:A:572:THR:HG23	1:A:572:THR:O	2.13	0.48
1:A:644:GLN:HA	1:A:649:CYS:HA	1.95	0.48
1:A:802:PHE:HB3	1:A:806:LEU:HG	1.95	0.48
1:A:906:PHE:HA	1:A:909:ILE:HG12	1.95	0.48
1:A:1110:TYR:CD1	1:A:1112:PRO:HD3	2.48	0.48
1:B:151:SER:CB	4:B:1302:NAG:H61	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:717:ASN:O	1:B:1070:ALA:N	2.39	0.48
1:B:826:VAL:HG21	1:B:1057:PRO:HG2	1.95	0.48
1:B:977:LEU:HA	1:B:980:ILE:HG12	1.94	0.48
1:B:1110:TYR:CD1	1:B:1112:PRO:HD3	2.48	0.48
1:C:666:ILE:HB	1:C:670:ILE:O	2.13	0.48
1:C:718:PHE:HA	1:C:1068:VAL:O	2.13	0.48
1:C:881:THR:O	1:C:885:GLY:N	2.43	0.48
1:A:726:ILE:O	1:A:726:ILE:HG22	2.12	0.48
1:A:741:TYR:CZ	1:A:966:LEU:HB3	2.48	0.48
1:B:111:ASP:OD1	1:B:113:LYS:NZ	2.47	0.48
1:B:143:VAL:HG22	1:B:154:GLU:CA	2.44	0.48
1:B:563:GLN:HB3	1:C:41:LYS:HB2	1.95	0.48
1:B:729:VAL:HB	1:B:1059:GLY:HA2	1.95	0.48
1:C:44:ARG:O	1:C:283:GLY:HA2	2.14	0.48
1:C:233:ILE:HG21	1:C:235:ILE:HG13	1.94	0.48
1:C:449:TYR:O	2:D:53:ALA:HB2	2.10	0.48
1:C:896:ILE:HD11	1:C:904:TYR:CE2	2.48	0.48
1:C:1030:SER:HA	1:C:1034:LEU:HD12	1.96	0.48
1:C:1110:TYR:CD1	1:C:1112:PRO:HD3	2.48	0.48
3:E:1:NAG:C1	3:E:1:NAG:C8	2.92	0.48
1:A:457:ARG:NH2	1:A:467:ASP:OD2	2.46	0.48
1:A:729:VAL:HB	1:A:1059:GLY:HA2	1.95	0.48
1:A:920:GLN:OE1	1:C:1130:ILE:HD11	2.13	0.48
1:A:988:GLU:O	1:A:992:GLN:HG2	2.13	0.48
1:B:57:PRO:HG3	1:B:273:ARG:HE	1.77	0.48
1:B:105:ILE:N	1:B:239:GLN:O	2.39	0.48
1:B:618:THR:OG1	1:B:619:GLU:CD	2.51	0.48
1:C:111:ASP:OD1	1:C:113:LYS:NZ	2.47	0.48
1:C:133:PHE:HA	1:C:162:SER:O	2.13	0.48
1:C:206:LYS:NZ	1:C:221:SER:OG	2.25	0.48
1:C:312:ILE:HG22	1:C:598:ILE:HG23	1.96	0.48
1:C:490:PHE:CG	2:D:105:THR:HG23	2.48	0.48
1:C:1010:GLN:O	1:C:1014:ARG:HD3	2.13	0.48
1:A:120:VAL:HG23	1:A:241:LEU:HB3	1.94	0.48
1:A:552:LEU:HD23	1:A:552:LEU:H	1.78	0.48
1:A:567:ARG:CB	1:B:44:ARG:HH22	2.26	0.48
1:B:124:THR:CG2	4:B:1301:NAG:H83	2.27	0.48
1:B:193:VAL:HG23	1:B:223:LEU:CD1	2.43	0.48
1:B:357:ARG:NH2	1:C:231:ILE:HA	2.28	0.48
1:B:454:ARG:CZ	1:B:491:PRO:HB2	2.43	0.48
1:C:127:VAL:HG12	3:G:1:NAG:H62	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:143:VAL:HG22	1:C:154:GLU:CA	2.44	0.48
1:C:644:GLN:HA	1:C:649:CYS:HA	1.95	0.48
1:C:988:GLU:O	1:C:992:GLN:HG2	2.13	0.48
1:A:125:ASN:ND2	1:A:172:SER:O	2.46	0.48
1:A:287:ASP:OD1	1:A:306:PHE:CD1	2.66	0.48
1:B:118:LEU:HD22	1:B:135:PHE:HZ	1.78	0.48
1:B:312:ILE:HG22	1:B:598:ILE:HG23	1.96	0.48
1:B:748:GLU:O	1:B:752:LEU:HG	2.13	0.48
1:B:906:PHE:HA	1:B:909:ILE:HG12	1.95	0.48
1:C:436:TRP:O	1:C:509:ARG:N	2.42	0.48
1:C:537:LYS:O	1:C:539:VAL:HG23	2.13	0.48
1:C:1054:GLN:OE1	1:C:1054:GLN:HA	2.13	0.48
1:A:569:ILE:O	1:A:570:ALA:HB3	2.13	0.48
1:A:933:LYS:NZ	1:A:933:LYS:CG	2.77	0.48
1:A:1102:TRP:O	1:A:1115:ILE:HG13	2.14	0.48
1:B:220:PHE:HE2	1:B:287:ASP:HA	1.75	0.48
1:B:594:GLY:CA	1:B:613:GLN:HG2	2.43	0.48
1:B:1102:TRP:O	1:B:1115:ILE:HG13	2.14	0.48
1:C:94:SER:N	1:C:190:ARG:O	2.42	0.48
1:C:94:SER:HA	1:C:265:TYR:HA	1.94	0.48
1:C:329:PHE:CD2	1:C:527:PRO:O	2.66	0.48
1:C:348:ALA:HB3	1:C:399:SER:O	2.14	0.48
1:C:565:PHE:N	1:C:565:PHE:CD1	2.81	0.48
1:A:91:TYR:O	1:A:268:GLY:N	2.47	0.48
1:A:118:LEU:HD22	1:A:135:PHE:HZ	1.78	0.48
1:A:220:PHE:CZ	1:A:287:ASP:CA	2.97	0.48
1:A:718:PHE:HA	1:A:1068:VAL:O	2.13	0.48
1:A:856:ASN:OD1	1:A:858:LEU:N	2.38	0.48
1:B:84:LEU:N	1:B:237:ARG:HH11	2.10	0.48
1:B:902:MET:O	1:B:906:PHE:CD1	2.67	0.48
1:C:825:LYS:HD3	1:C:945:LEU:CD1	2.41	0.48
1:C:1106:GLN:HE22	1:C:1109:PHE:HB3	1.76	0.48
2:D:12:VAL:O	2:D:117:VAL:HA	2.14	0.48
1:A:133:PHE:HA	1:A:162:SER:O	2.13	0.48
1:A:233:ILE:HG21	1:A:235:ILE:HG13	1.94	0.48
1:A:1016:ALA:HA	1:A:1019:ARG:NH1	2.29	0.48
1:B:48:LEU:HD12	1:B:304:LYS:O	2.14	0.48
1:B:1016:ALA:HA	1:B:1019:ARG:NH1	2.29	0.48
1:B:1049:LEU:HG	1:B:1066:THR:HA	1.95	0.48
1:B:1116:THR:HG23	1:B:1138:TYR:CD1	2.44	0.48
1:C:103:GLY:HA3	1:C:119:ILE:O	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:189:LEU:CB	1:C:210:ILE:HD11	2.41	0.48
1:C:1091:ARG:HE	1:C:1119:ASN:CA	2.27	0.48
1:A:48:LEU:HD21	1:A:278:LYS:HZ3	1.79	0.47
1:A:88:ASP:OD2	1:A:88:ASP:N	2.45	0.47
1:A:111:ASP:OD1	1:A:113:LYS:NZ	2.47	0.47
1:A:130:VAL:HG11	1:A:168:PHE:H	1.79	0.47
1:A:130:VAL:HG12	1:A:168:PHE:H	1.77	0.47
1:A:143:VAL:HG22	1:A:154:GLU:CA	2.44	0.47
1:A:726:ILE:HD12	1:A:1061:VAL:CG2	2.44	0.47
1:A:902:MET:O	1:A:906:PHE:CD1	2.67	0.47
1:A:1013:ILE:HD13	1:B:1012:LEU:HD13	1.95	0.47
1:A:1091:ARG:HE	1:A:1119:ASN:CA	2.27	0.47
1:B:287:ASP:OD2	1:B:287:ASP:C	2.45	0.47
1:B:441:LEU:HD22	1:B:441:LEU:N	2.29	0.47
1:C:206:LYS:HZ1	1:C:221:SER:HG	1.54	0.47
1:C:220:PHE:HE2	1:C:287:ASP:HA	1.76	0.47
1:C:729:VAL:HB	1:C:1059:GLY:HA2	1.95	0.47
1:A:192:PHE:HB3	1:A:194:PHE:HE1	1.80	0.47
1:A:246:ARG:HD3	1:A:258:TRP:HB3	1.95	0.47
1:A:666:ILE:HB	1:A:670:ILE:O	2.13	0.47
1:A:1030:SER:HA	1:A:1034:LEU:HD12	1.96	0.47
1:B:96:GLU:OE2	1:B:101:ILE:HB	2.14	0.47
1:B:133:PHE:HE1	1:B:160:TYR:HD2	1.52	0.47
1:B:192:PHE:HB3	1:B:194:PHE:HE1	1.80	0.47
1:B:287:ASP:OD1	1:B:306:PHE:CD1	2.66	0.47
1:B:457:ARG:HD2	1:B:461:LEU:HD23	1.96	0.47
1:C:152:TRP:HB2	1:C:245:HIS:HE1	1.78	0.47
1:C:192:PHE:HB3	1:C:194:PHE:HE1	1.80	0.47
1:C:278:LYS:O	1:C:285:ILE:HA	2.14	0.47
1:C:402:ILE:O	1:C:507:PRO:HA	2.15	0.47
1:C:618:THR:OG1	1:C:619:GLU:CD	2.51	0.47
1:C:726:ILE:HD12	1:C:1061:VAL:CG2	2.44	0.47
1:C:802:PHE:HB3	1:C:806:LEU:HG	1.95	0.47
1:C:826:VAL:HG21	1:C:1057:PRO:HG2	1.95	0.47
1:A:48:LEU:HD12	1:A:304:LYS:O	2.14	0.47
1:A:278:LYS:O	1:A:285:ILE:HA	2.14	0.47
1:A:567:ARG:HG3	1:B:44:ARG:NH2	2.29	0.47
1:A:1024:LEU:HD11	1:A:1028:LYS:HE2	1.96	0.47
1:A:1049:LEU:HG	1:A:1066:THR:HA	1.95	0.47
1:B:151:SER:OG	4:B:1302:NAG:C6	2.61	0.47
1:B:395:VAL:HG11	1:B:513:LEU:HG	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:704:SER:HA	1:C:790:LYS:O	2.14	0.47
1:B:726:ILE:HD12	1:B:1061:VAL:CG2	2.44	0.47
1:C:200:TYR:N	1:C:200:TYR:CD1	2.82	0.47
1:C:560:LEU:N	1:C:560:LEU:HD23	2.28	0.47
1:C:707:TYR:CD1	1:C:708:SER:N	2.82	0.47
1:C:920:GLN:HA	1:C:923:ILE:CG1	2.42	0.47
1:C:1102:TRP:O	1:C:1115:ILE:HG13	2.14	0.47
1:A:41:LYS:O	1:C:563:GLN:HG3	2.14	0.47
1:A:594:GLY:CA	1:A:613:GLN:HG2	2.43	0.47
1:A:715:PRO:HG2	1:A:1069:PRO:CB	2.44	0.47
1:A:948:LEU:O	1:A:952:VAL:HG22	2.14	0.47
1:B:200:TYR:N	1:B:200:TYR:CD1	2.82	0.47
1:B:220:PHE:CZ	1:B:287:ASP:CA	2.97	0.47
1:B:802:PHE:HB3	1:B:806:LEU:HG	1.95	0.47
1:C:118:LEU:HD22	1:C:135:PHE:HZ	1.78	0.47
1:C:193:VAL:HG23	1:C:223:LEU:CD1	2.43	0.47
1:C:452:LEU:HD23	2:D:104:CYS:C	2.33	0.47
1:C:1081:ILE:CG1	1:C:1135:ASN:HB3	2.45	0.47
1:B:83:VAL:C	1:B:237:ARG:HH11	2.18	0.47
1:B:91:TYR:O	1:B:268:GLY:N	2.47	0.47
1:B:203:ILE:HD12	1:B:227:VAL:HB	1.97	0.47
1:B:666:ILE:HB	1:B:670:ILE:O	2.13	0.47
1:B:977:LEU:O	1:B:981:LEU:HG	2.14	0.47
1:C:124:THR:HG1	3:G:1:NAG:C7	2.25	0.47
1:C:933:LYS:NZ	1:C:933:LYS:CG	2.77	0.47
2:D:50:SER:HB3	2:D:58:TYR:CE2	2.48	0.47
1:A:94:SER:HA	1:A:265:TYR:HA	1.95	0.47
1:A:669:GLY:O	1:A:697:MET:HB3	2.14	0.47
1:A:949:GLN:O	1:A:953:ASN:ND2	2.41	0.47
1:B:475:ALA:HB2	1:B:489:TYR:HE2	1.79	0.47
1:B:515:PHE:N	1:B:515:PHE:CD1	2.83	0.47
1:B:669:GLY:O	1:B:697:MET:HB3	2.14	0.47
1:B:699:LEU:HD12	1:C:872:GLN:OE1	2.06	0.47
1:B:903:ALA:HB1	1:B:913:GLN:CG	2.44	0.47
1:B:1091:ARG:HE	1:B:1119:ASN:CA	2.27	0.47
1:C:91:TYR:O	1:C:268:GLY:N	2.47	0.47
1:C:361:CYS:H	1:C:524:VAL:HG22	1.80	0.47
1:C:454:ARG:NH2	1:C:492:LEU:HD13	2.29	0.47
1:C:669:GLY:O	1:C:697:MET:HB3	2.14	0.47
1:C:748:GLU:O	1:C:752:LEU:HG	2.14	0.47
1:C:818:ILE:O	1:C:822:LEU:HG	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:948:LEU:O	1:C:952:VAL:HG22	2.14	0.47
2:D:67:LEU:HD21	2:D:80:LEU:CD1	2.44	0.47
1:A:44:ARG:O	1:A:283:GLY:HA2	2.14	0.47
1:A:83:VAL:C	1:A:237:ARG:HH11	2.18	0.47
1:A:246:ARG:HG3	1:A:257:GLY:C	2.35	0.47
1:A:712:ILE:CD1	1:B:895:GLN:O	2.62	0.47
1:A:897:PRO:HG3	1:A:900:MET:HG2	1.97	0.47
1:A:1084:ASP:C	1:A:1086:LYS:HG2	2.35	0.47
1:B:278:LYS:O	1:B:285:ILE:HA	2.15	0.47
1:B:343:ASN:OD1	1:B:343:ASN:N	2.47	0.47
1:B:563:GLN:CD	1:C:41:LYS:HB2	2.35	0.47
1:B:948:LEU:O	1:B:952:VAL:HG22	2.14	0.47
1:B:988:GLU:O	1:B:992:GLN:HG2	2.13	0.47
1:B:1084:ASP:C	1:B:1086:LYS:HG2	2.35	0.47
1:C:125:ASN:ND2	1:C:172:SER:O	2.46	0.47
1:C:130:VAL:HG11	1:C:168:PHE:H	1.79	0.47
1:C:203:ILE:HD12	1:C:227:VAL:HB	1.97	0.47
1:C:715:PRO:HG2	1:C:1069:PRO:CB	2.44	0.47
1:C:902:MET:O	1:C:906:PHE:CD1	2.67	0.47
1:C:1116:THR:HG23	1:C:1138:TYR:CD1	2.44	0.47
1:A:31:SER:HB3	1:A:62:VAL:CG2	2.45	0.47
1:A:41:LYS:HA	1:A:41:LYS:HZ3	1.79	0.47
1:A:64:TRP:HZ2	1:A:214:ARG:HG3	1.80	0.47
1:A:105:ILE:HG22	1:A:118:LEU:HB3	1.97	0.47
1:A:312:ILE:HG22	1:A:598:ILE:HG23	1.96	0.47
1:A:433:VAL:C	1:A:434:ILE:HD13	2.34	0.47
1:A:559:PHE:CE1	1:A:584:ILE:CG1	2.97	0.47
1:A:748:GLU:O	1:A:752:LEU:HG	2.13	0.47
1:A:1091:ARG:NH2	1:A:1120:THR:O	2.48	0.47
1:B:103:GLY:HA3	1:B:119:ILE:O	2.14	0.47
1:B:870:ILE:O	1:B:874:THR:HG23	2.15	0.47
1:B:980:ILE:O	1:B:984:LEU:N	2.42	0.47
1:B:1081:ILE:CG1	1:B:1135:ASN:HB3	2.45	0.47
1:B:1107:ARG:HG2	1:C:904:TYR:CE1	2.50	0.47
1:C:450:ASN:ND2	2:D:54:ASP:H	2.12	0.47
1:C:450:ASN:HD22	2:D:54:ASP:H	1.63	0.47
1:C:533:LEU:HD22	1:C:578:ASP:OD2	2.15	0.47
1:C:578:ASP:N	1:C:583:GLU:O	2.29	0.47
1:C:897:PRO:HG3	1:C:900:MET:HG2	1.97	0.47
1:A:203:ILE:HD12	1:A:227:VAL:HB	1.97	0.47
1:A:994:ASP:O	1:A:997:ILE:HG22	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:ARG:O	1:B:283:GLY:HA2	2.14	0.47
1:B:933:LYS:NZ	1:B:933:LYS:CG	2.77	0.47
1:B:994:ASP:O	1:B:997:ILE:HG22	2.15	0.47
1:C:15:CYS:O	3:H:1:NAG:O7	2.33	0.47
1:C:83:VAL:C	1:C:237:ARG:HH11	2.18	0.47
1:C:111:ASP:HB3	1:C:134:GLN:NE2	2.30	0.47
1:C:454:ARG:CZ	1:C:492:LEU:HD13	2.45	0.47
1:C:1016:ALA:HA	1:C:1019:ARG:NH1	2.29	0.47
2:D:4:LEU:HD13	2:D:108:SER:HB3	1.96	0.47
2:D:99:VAL:HG11	2:D:102:PHE:CD2	2.49	0.47
1:A:96:GLU:OE2	1:A:101:ILE:HB	2.14	0.47
1:A:611:LEU:HB3	1:A:611:LEU:HD23	1.97	0.47
1:A:809:PRO:HA	1:A:814:LYS:HE2	1.97	0.47
1:A:884:SER:HG	1:A:887:THR:CB	2.25	0.47
1:B:31:SER:HB3	1:B:62:VAL:CG2	2.45	0.47
1:B:411:ALA:HB3	1:B:414:GLN:HB2	1.96	0.47
1:B:702:GLU:OE1	1:B:702:GLU:N	2.48	0.47
1:B:1050:MET:CG	1:B:1051:SER:N	2.50	0.47
1:C:42:VAL:HG21	1:C:44:ARG:HE	1.80	0.47
1:C:96:GLU:OE2	1:C:101:ILE:HB	2.14	0.47
1:C:101:ILE:HD12	1:C:101:ILE:H	1.79	0.47
1:C:105:ILE:HG22	1:C:118:LEU:HB3	1.97	0.47
1:C:329:PHE:CE2	1:C:528:LYS:HB2	2.49	0.47
1:C:407:VAL:HG11	1:C:508:TYR:CD2	2.50	0.47
1:C:511:VAL:CG1	1:C:513:LEU:HD11	2.45	0.47
1:C:977:LEU:O	1:C:981:LEU:HG	2.14	0.47
1:A:61:ASN:HD22	4:A:1306:NAG:H3	1.80	0.46
1:A:204:TYR:HA	1:A:224:GLU:O	2.15	0.46
1:A:403:ARG:H	1:A:406:GLU:HB2	1.80	0.46
1:A:618:THR:OG1	1:A:619:GLU:CD	2.51	0.46
1:A:977:LEU:O	1:A:981:LEU:HG	2.14	0.46
1:B:332:ILE:HD12	1:B:334:ASN:H	1.80	0.46
1:B:1024:LEU:HD11	1:B:1028:LYS:HE2	1.96	0.46
4:B:1312:NAG:O7	4:B:1312:NAG:C1	2.63	0.46
1:C:41:LYS:N	1:C:42:VAL:N	2.63	0.46
1:C:95:THR:N	1:C:264:ALA:O	2.36	0.46
1:C:327:VAL:CG2	1:C:530:SER:HA	2.45	0.46
1:C:350:VAL:HG13	1:C:351:TYR:N	2.30	0.46
1:C:531:THR:HG23	1:C:532:ASN:O	2.15	0.46
1:C:579:PRO:HG2	1:C:580:GLN:NE2	2.31	0.46
1:C:770:ILE:O	1:C:774:GLN:OE1	2.33	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1024:LEU:HD11	1:C:1028:LYS:HE2	1.96	0.46
1:A:44:ARG:HB3	1:A:279:TYR:CE2	2.50	0.46
1:A:101:ILE:H	1:A:101:ILE:HD12	1.79	0.46
1:A:818:ILE:O	1:A:822:LEU:HG	2.14	0.46
1:A:1081:ILE:CG1	1:A:1135:ASN:HB3	2.45	0.46
1:B:186:PHE:O	1:B:212:LEU:O	2.33	0.46
1:B:404:GLY:O	1:B:407:VAL:HG22	2.15	0.46
1:B:453:TYR:CE2	1:B:455:LEU:HD23	2.50	0.46
1:B:562:PHE:CG	1:C:41:LYS:HD3	2.50	0.46
1:B:715:PRO:HG2	1:B:1069:PRO:CB	2.44	0.46
1:C:48:LEU:HD12	1:C:304:LYS:O	2.14	0.46
1:C:186:PHE:O	1:C:212:LEU:O	2.34	0.46
1:C:204:TYR:HA	1:C:224:GLU:O	2.16	0.46
1:C:900:MET:O	1:C:903:ALA:HB3	2.16	0.46
1:C:994:ASP:O	1:C:997:ILE:HG22	2.15	0.46
1:C:1050:MET:CG	1:C:1051:SER:H	2.21	0.46
1:A:213:VAL:HG13	1:A:214:ARG:H	1.80	0.46
1:A:312:ILE:HG21	1:A:312:ILE:HD13	1.64	0.46
1:A:743:CYS:HA	1:A:1000:ARG:NH1	2.31	0.46
1:B:44:ARG:HB3	1:B:279:TYR:CE2	2.50	0.46
1:B:246:ARG:HG3	1:B:257:GLY:C	2.35	0.46
1:C:31:SER:HB3	1:C:62:VAL:CG2	2.45	0.46
1:C:444:LYS:HB3	1:C:448:ASN:CA	2.45	0.46
1:C:473:TYR:HB2	1:C:491:PRO:CB	2.44	0.46
1:C:531:THR:HG23	1:C:532:ASN:N	2.30	0.46
1:C:594:GLY:CA	1:C:613:GLN:HG2	2.43	0.46
2:D:40:ALA:O	2:D:43:LYS:HG2	2.15	0.46
1:A:33:THR:H	1:A:58:PHE:HB3	1.80	0.46
1:A:111:ASP:HB3	1:A:134:GLN:NE2	2.30	0.46
1:A:143:VAL:HG21	1:A:179:LEU:HD23	1.98	0.46
1:A:870:ILE:O	1:A:874:THR:HG23	2.15	0.46
1:B:101:ILE:H	1:B:101:ILE:HD12	1.79	0.46
1:B:139:PRO:HB2	1:B:159:VAL:HA	1.98	0.46
1:B:143:VAL:HG21	1:B:179:LEU:HD23	1.98	0.46
1:B:381:GLY:O	1:B:382:VAL:HG13	2.15	0.46
1:C:320:VAL:CG2	1:C:590:CYS:SG	3.04	0.46
1:C:450:ASN:HD22	2:D:53:ALA:N	2.13	0.46
1:C:538:CYS:CB	1:C:551:VAL:HG22	2.45	0.46
1:C:656:VAL:HG12	1:C:657:ASN:H	1.80	0.46
1:C:965:GLN:O	1:C:968:SER:N	2.49	0.46
1:C:1091:ARG:NH2	1:C:1120:THR:O	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:17:ASN:N	3:E:2:NAG:O4	2.47	0.46
1:A:186:PHE:O	1:A:212:LEU:O	2.34	0.46
1:A:356:LYS:N	1:A:397:ALA:O	2.49	0.46
1:A:402:ILE:CD1	1:A:510:VAL:HG21	2.44	0.46
1:B:204:TYR:HA	1:B:224:GLU:O	2.15	0.46
1:B:358:ILE:HD11	1:B:397:ALA:HB3	1.96	0.46
1:B:714:ILE:HG22	1:B:715:PRO:CD	2.46	0.46
1:B:781:VAL:HG12	1:B:782:PHE:CG	2.51	0.46
1:B:809:PRO:HA	1:B:814:LYS:HE2	1.98	0.46
1:C:44:ARG:HB3	1:C:279:TYR:CE2	2.50	0.46
1:C:246:ARG:HG3	1:C:257:GLY:C	2.35	0.46
1:C:377:PHE:CD1	1:C:434:ILE:HD12	2.50	0.46
1:C:590:CYS:SG	1:C:590:CYS:O	2.74	0.46
1:C:903:ALA:HB1	1:C:913:GLN:CG	2.44	0.46
2:D:86:LYS:HB3	2:D:88:GLU:OE2	2.15	0.46
1:A:559:PHE:CE2	1:A:564:GLN:O	2.68	0.46
1:A:656:VAL:HG12	1:A:657:ASN:H	1.80	0.46
1:A:770:ILE:O	1:A:774:GLN:OE1	2.33	0.46
1:B:33:THR:H	1:B:58:PHE:HB3	1.80	0.46
1:B:92:PHE:O	1:B:192:PHE:N	2.27	0.46
1:B:152:TRP:HB2	1:B:245:HIS:HE1	1.78	0.46
1:B:437:ASN:HA	1:B:508:TYR:HA	1.97	0.46
1:B:770:ILE:O	1:B:774:GLN:OE1	2.33	0.46
1:B:818:ILE:O	1:B:822:LEU:HG	2.14	0.46
1:B:897:PRO:HG3	1:B:900:MET:HG2	1.97	0.46
1:B:1106:GLN:HE22	1:B:1109:PHE:HB3	1.76	0.46
1:C:143:VAL:HG21	1:C:179:LEU:HD23	1.98	0.46
1:C:1084:ASP:C	1:C:1086:LYS:HG2	2.35	0.46
1:A:407:VAL:HG11	1:A:508:TYR:HD2	1.80	0.46
1:A:660:TYR:O	1:A:698:SER:N	2.47	0.46
1:A:759:PHE:HA	1:A:762:GLN:OE1	2.16	0.46
1:A:1076:THR:HG22	1:A:1097:SER:OG	2.16	0.46
1:A:1080:ALA:HB3	1:A:1132:ILE:HD12	1.98	0.46
1:B:64:TRP:HZ2	1:B:214:ARG:HG3	1.80	0.46
1:B:575:ALA:HA	1:B:585:LEU:O	2.15	0.46
1:B:1091:ARG:NH2	1:B:1120:THR:O	2.48	0.46
1:C:29:THR:HG22	1:C:64:TRP:HE3	1.76	0.46
1:C:220:PHE:CZ	1:C:287:ASP:CA	2.97	0.46
1:C:715:PRO:HB2	1:C:1070:ALA:O	2.15	0.46
1:C:781:VAL:HG12	1:C:782:PHE:CG	2.51	0.46
2:D:99:VAL:HG12	2:D:102:PHE:H	1.80	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:LYS:N	1:A:42:VAL:N	2.63	0.46
1:A:758:SER:HG	1:A:761:THR:HG1	1.62	0.46
1:B:42:VAL:HG21	1:B:44:ARG:HE	1.81	0.46
1:B:94:SER:N	1:B:190:ARG:O	2.42	0.46
1:B:97:LYS:NZ	1:B:185:ASN:O	2.41	0.46
1:B:111:ASP:HB3	1:B:134:GLN:NE2	2.30	0.46
1:B:213:VAL:HG13	1:B:214:ARG:H	1.80	0.46
1:B:486:PHE:HZ	1:C:377:PHE:O	1.98	0.46
1:B:715:PRO:HB2	1:B:1070:ALA:O	2.15	0.46
1:B:726:ILE:HD12	1:B:726:ILE:HA	1.54	0.46
1:B:1089:PHE:O	1:B:1121:PHE:N	2.42	0.46
1:C:449:TYR:C	2:D:32:CYS:O	2.54	0.46
1:C:490:PHE:CD1	2:D:105:THR:HG23	2.50	0.46
1:A:327:VAL:HG23	1:A:327:VAL:O	2.16	0.46
1:A:356:LYS:HG2	1:A:358:ILE:HD11	1.97	0.46
1:A:900:MET:O	1:A:903:ALA:HB3	2.16	0.46
1:B:127:VAL:HG11	4:B:1301:NAG:C1	2.46	0.46
1:B:884:SER:HG	1:B:887:THR:CB	2.26	0.46
1:B:983:ARG:O	1:B:984:LEU:HD23	2.16	0.46
1:B:1050:MET:CG	1:B:1051:SER:H	2.21	0.46
1:B:1076:THR:HG22	1:B:1097:SER:OG	2.16	0.46
1:C:22:THR:HG23	1:C:76:THR:CB	2.46	0.46
1:C:1095:PHE:HB3	1:C:1115:ILE:CD1	2.46	0.46
1:A:49:HIS:NE2	1:A:51:THR:OG1	2.49	0.46
1:A:61:ASN:ND2	4:A:1306:NAG:H3	2.31	0.46
1:A:200:TYR:N	1:A:200:TYR:CD1	2.82	0.46
1:A:327:VAL:HG12	1:A:542:ASN:HB3	1.97	0.46
1:A:569:ILE:HG12	1:B:47:VAL:HG13	1.98	0.46
1:B:38:TYR:HD1	1:B:223:LEU:O	2.00	0.46
1:B:105:ILE:HG22	1:B:118:LEU:HB3	1.97	0.46
1:B:278:LYS:HB2	1:B:287:ASP:N	2.31	0.46
1:B:476:GLY:HA2	1:B:477[A]:SER:HB3	1.98	0.46
1:C:33:THR:H	1:C:58:PHE:HB3	1.80	0.46
1:C:38:TYR:HD1	1:C:223:LEU:O	1.99	0.46
1:C:119:ILE:HA	1:C:128:ILE:HG12	1.98	0.46
1:C:133:PHE:CD1	1:C:162:SER:N	2.84	0.46
1:C:213:VAL:HG13	1:C:214:ARG:H	1.80	0.46
1:C:725:GLU:OE2	1:C:1028:LYS:NZ	2.41	0.46
1:C:759:PHE:HA	1:C:762:GLN:OE1	2.16	0.46
2:D:31:THR:HG21	2:D:34:LYS:CE	2.46	0.46
1:A:903:ALA:HB1	1:A:913:GLN:CG	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1095:PHE:HB3	1:A:1115:ILE:CD1	2.46	0.45
1:B:119:ILE:HA	1:B:128:ILE:HG12	1.98	0.45
1:B:759:PHE:HA	1:B:762:GLN:OE1	2.16	0.45
1:B:900:MET:O	1:B:903:ALA:HB3	2.16	0.45
1:C:49:HIS:NE2	1:C:51:THR:OG1	2.49	0.45
1:C:124:THR:OG1	3:G:1:NAG:C7	2.64	0.45
1:C:329:PHE:HB3	1:C:330:PRO:HD2	1.97	0.45
1:C:660:TYR:O	1:C:698:SER:N	2.47	0.45
1:C:714:ILE:HG22	1:C:715:PRO:CD	2.46	0.45
1:C:870:ILE:O	1:C:874:THR:HG23	2.15	0.45
3:G:2:NAG:O3	3:G:2:NAG:H82	2.17	0.45
1:A:42:VAL:HG21	1:A:44:ARG:HE	1.81	0.45
1:A:111:ASP:HB2	1:A:113:LYS:NZ	2.31	0.45
1:A:140:PHE:CD2	1:A:244:LEU:HD21	2.51	0.45
1:A:567:ARG:HG2	1:A:573:THR:HG23	1.97	0.45
1:A:715:PRO:HB2	1:A:1070:ALA:O	2.15	0.45
1:A:983:ARG:O	1:A:984:LEU:HD23	2.16	0.45
1:B:49:HIS:NE2	1:B:51:THR:OG1	2.49	0.45
1:B:206:LYS:NZ	1:B:221:SER:OG	2.25	0.45
1:C:450:ASN:HB3	2:D:52:THR:HB	1.98	0.45
1:C:1076:THR:HG22	1:C:1097:SER:OG	2.16	0.45
2:D:99:VAL:HG23	2:D:107:ASN:HB3	1.98	0.45
1:A:278:LYS:HB2	1:A:287:ASP:N	2.31	0.45
1:A:326:ILE:HD11	1:A:531:THR:OG1	2.16	0.45
1:A:455:LEU:HD11	1:A:493:GLN:HB2	1.98	0.45
1:A:551:VAL:HG12	1:A:590:CYS:HA	1.98	0.45
1:A:559:PHE:HA	1:B:43:PHE:CE1	2.49	0.45
1:A:1007:TYR:HA	1:A:1010:GLN:OE1	2.17	0.45
1:A:1052:PHE:CD1	1:A:1052:PHE:N	2.84	0.45
1:B:660:TYR:O	1:B:698:SER:N	2.47	0.45
1:C:48:LEU:CD2	1:C:278:LYS:CD	2.95	0.45
1:A:105:ILE:HG22	1:A:118:LEU:CB	2.47	0.45
1:A:748:GLU:HA	1:A:751:ASN:OD1	2.17	0.45
1:A:781:VAL:HG12	1:A:782:PHE:CG	2.51	0.45
1:A:1043:CYS:HA	1:A:1064:HIS:CE1	2.52	0.45
1:B:670:ILE:HD13	1:B:696:THR:HG23	1.99	0.45
1:B:1007:TYR:HA	1:B:1010:GLN:OE1	2.17	0.45
1:C:139:PRO:HB2	1:C:159:VAL:HA	1.98	0.45
1:C:233:ILE:HG23	1:C:234:ASN:N	2.32	0.45
1:C:916:LEU:HA	1:C:923:ILE:CD1	2.47	0.45
1:C:1080:ALA:HB3	1:C:1132:ILE:HD12	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:22:THR:HG23	1:A:76:THR:CB	2.46	0.45
1:A:206:LYS:HZ1	1:A:221:SER:HG	1.53	0.45
1:A:233:ILE:HG23	1:A:234:ASN:N	2.32	0.45
1:A:310:LYS:HE2	1:A:664:ILE:HG12	1.99	0.45
1:A:350:VAL:HG23	1:A:418:ILE:HG23	1.98	0.45
1:A:670:ILE:HD13	1:A:696:THR:HG23	1.99	0.45
1:A:714:ILE:HG22	1:A:715:PRO:CD	2.46	0.45
1:B:41:LYS:N	1:B:42:VAL:N	2.63	0.45
1:B:49:HIS:O	1:B:277:LEU:HB2	2.16	0.45
1:B:567:ARG:H	1:C:42:VAL:HG12	1.81	0.45
1:B:1005:GLN:OE1	1:B:1005:GLN:O	2.34	0.45
1:C:310:LYS:HE2	1:C:664:ILE:HG12	1.99	0.45
1:C:461:LEU:H	1:C:461:LEU:HD22	1.82	0.45
1:A:220:PHE:HE2	1:A:287:ASP:HA	1.75	0.45
1:A:410:ILE:HD11	1:A:418:ILE:HB	1.98	0.45
1:A:461:LEU:HD23	1:A:462:LYS:O	2.17	0.45
1:A:965:GLN:O	1:A:968:SER:N	2.49	0.45
1:A:1005:GLN:OE1	1:A:1005:GLN:O	2.34	0.45
1:B:101:ILE:HG23	1:B:240:THR:OG1	2.17	0.45
1:B:326:ILE:HG23	1:B:531:THR:OG1	2.17	0.45
1:B:472:ILE:HG23	1:B:489:TYR:C	2.36	0.45
1:B:562:PHE:C	1:C:41:LYS:CD	2.85	0.45
1:B:577:ARG:HE	4:B:1305:NAG:HO4	1.57	0.45
1:B:965:GLN:O	1:B:968:SER:N	2.49	0.45
1:B:1043:CYS:HA	1:B:1064:HIS:CE1	2.52	0.45
1:B:1095:PHE:HB3	1:B:1115:ILE:CD1	2.46	0.45
1:C:64:TRP:HZ2	1:C:214:ARG:HG3	1.80	0.45
1:C:726:ILE:HD12	1:C:726:ILE:HA	1.54	0.45
1:C:983:ARG:O	1:C:984:LEU:HD23	2.16	0.45
1:C:1135:ASN:OD1	1:C:1135:ASN:C	2.54	0.45
1:A:119:ILE:HA	1:A:128:ILE:HG12	1.99	0.45
1:A:730:SER:C	1:A:1058:HIS:CE1	2.90	0.45
1:A:747:THR:O	1:A:750:SER:OG	2.29	0.45
1:B:111:ASP:HB2	1:B:113:LYS:NZ	2.31	0.45
1:B:334:ASN:O	1:B:362:VAL:N	2.50	0.45
1:B:743:CYS:HA	1:B:1000:ARG:NH1	2.31	0.45
1:B:1052:PHE:N	1:B:1052:PHE:CD1	2.85	0.45
1:B:1080:ALA:HB3	1:B:1132:ILE:HD12	1.97	0.45
1:C:293:LEU:HD22	1:C:294:ASP:HB2	1.99	0.45
1:C:452:LEU:HD11	2:D:98:SER:CB	2.46	0.45
1:C:490:PHE:CE2	2:D:105:THR:HG23	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:48:LEU:CD2	1:A:278:LYS:CD	2.95	0.45
1:B:140:PHE:CD2	1:B:244:LEU:HD21	2.51	0.45
1:B:356:LYS:O	1:B:397:ALA:N	2.49	0.45
1:B:703:ASN:OD1	1:C:789:TYR:HA	2.16	0.45
1:B:740:MET:O	1:B:744:GLY:N	2.50	0.45
1:B:748:GLU:HA	1:B:751:ASN:OD1	2.17	0.45
1:B:916:LEU:HA	1:B:923:ILE:CD1	2.47	0.45
1:C:108:THR:HG23	1:C:235:ILE:HA	1.99	0.45
1:C:278:LYS:HB2	1:C:287:ASP:N	2.31	0.45
1:C:670:ILE:HD13	1:C:696:THR:HG23	1.99	0.45
1:C:906:PHE:O	1:C:910:GLY:N	2.50	0.45
1:C:1005:GLN:OE1	1:C:1005:GLN:O	2.34	0.45
1:A:49:HIS:O	1:A:277:LEU:HB2	2.17	0.45
1:A:139:PRO:HB2	1:A:159:VAL:HA	1.98	0.45
1:A:567:ARG:CB	1:B:44:ARG:NH2	2.79	0.45
1:A:906:PHE:O	1:A:910:GLY:N	2.50	0.45
1:A:916:LEU:HA	1:A:923:ILE:CD1	2.47	0.45
1:B:48:LEU:CD2	1:B:278:LYS:CD	2.95	0.45
1:B:130:VAL:HG11	1:B:168:PHE:H	1.79	0.45
1:B:293:LEU:HD22	1:B:294:ASP:HB2	1.99	0.45
1:B:310:LYS:HE2	1:B:664:ILE:HG12	1.99	0.45
1:B:567:ARG:N	1:C:42:VAL:HG12	2.32	0.45
1:B:701:ALA:O	1:C:788:ILE:O	2.35	0.45
1:C:333:THR:HG23	1:C:362:VAL:CG1	2.47	0.45
1:C:409:GLN:HB3	1:C:418:ILE:HD12	1.98	0.45
1:C:451:TYR:O	2:D:32:CYS:SG	2.75	0.45
1:C:502:GLY:N	1:C:505:TYR:HB3	2.32	0.45
1:C:579:PRO:CB	1:C:580:GLN:NE2	2.77	0.45
1:C:1043:CYS:HA	1:C:1064:HIS:CE1	2.52	0.45
1:B:153:MET:CE	4:B:1302:NAG:C3	2.95	0.45
1:B:312:ILE:HD13	1:B:312:ILE:HG21	1.65	0.45
1:B:358:ILE:HD11	1:B:397:ALA:HB2	1.99	0.45
1:C:111:ASP:HB2	1:C:113:LYS:NZ	2.31	0.45
1:C:452:LEU:HD13	2:D:33:ARG:CB	2.45	0.45
1:C:493:GLN:OE1	2:D:103:THR:OG1	2.20	0.45
1:C:723:THR:HG22	1:C:724:THR:N	2.32	0.45
1:A:92:PHE:O	1:A:192:PHE:N	2.27	0.44
1:A:406:GLU:OE1	1:A:406:GLU:N	2.50	0.44
1:A:1083:HIS:ND1	1:A:1084:ASP:CG	2.59	0.44
1:B:105:ILE:HG22	1:B:118:LEU:CB	2.47	0.44
1:B:233:ILE:HG23	1:B:234:ASN:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:309:GLU:OE1	1:B:309:GLU:HA	2.17	0.44
1:B:656:VAL:HG12	1:B:657:ASN:H	1.80	0.44
1:B:723:THR:HG22	1:B:724:THR:N	2.32	0.44
1:B:730:SER:C	1:B:1058:HIS:CE1	2.90	0.44
1:B:906:PHE:O	1:B:910:GLY:N	2.50	0.44
1:C:49:HIS:O	1:C:277:LEU:HB2	2.17	0.44
1:C:92:PHE:O	1:C:192:PHE:N	2.27	0.44
1:C:131:CYS:HA	1:C:165:ASN:O	2.18	0.44
1:C:282:ASN:CG	1:C:284:THR:HG23	2.38	0.44
1:C:326:ILE:HG13	1:C:327:VAL:N	2.32	0.44
1:C:554:GLU:OE1	1:C:554:GLU:N	2.44	0.44
1:C:730:SER:C	1:C:1058:HIS:CE1	2.90	0.44
1:C:743:CYS:HA	1:C:1000:ARG:NH1	2.31	0.44
1:C:748:GLU:HA	1:C:751:ASN:OD1	2.17	0.44
1:A:105:ILE:N	1:A:239:GLN:O	2.39	0.44
1:A:246:ARG:HD3	1:A:258:TRP:CD1	2.53	0.44
1:A:282:ASN:CG	1:A:284:THR:HG23	2.38	0.44
1:A:291:CYS:SG	1:A:298:GLU:HA	2.57	0.44
1:A:861:LEU:HD22	1:A:861:LEU:H	1.83	0.44
1:A:980:ILE:O	1:A:984:LEU:N	2.42	0.44
1:B:611:LEU:HB3	1:B:611:LEU:HD23	1.97	0.44
1:B:703:ASN:N	1:C:788:ILE:O	2.49	0.44
1:B:856:ASN:OD1	1:B:858:LEU:N	2.38	0.44
1:B:1135:ASN:OD1	1:B:1135:ASN:C	2.54	0.44
1:C:444:LYS:HD3	1:C:445:VAL:O	2.17	0.44
1:C:747:THR:O	1:C:751:ASN:OD1	2.36	0.44
1:C:809:PRO:HA	1:C:814:LYS:HE2	1.98	0.44
1:C:1014:ARG:N	1:C:1014:ARG:CD	2.70	0.44
2:D:11:SER:HA	2:D:116:THR:HG22	1.98	0.44
1:A:38:TYR:HD1	1:A:223:LEU:O	1.99	0.44
1:A:603:ASN:C	1:A:603:ASN:OD1	2.56	0.44
1:A:914:ASN:O	1:A:918:GLU:N	2.50	0.44
1:A:973:ILE:HG13	1:A:974:SER:N	2.32	0.44
1:A:985:ASP:OD2	1:A:985:ASP:C	2.55	0.44
1:B:102:ARG:HB3	1:B:121:ASN:O	2.17	0.44
1:B:143:VAL:HG11	1:B:245:HIS:HE1	1.82	0.44
1:B:246:ARG:HD3	1:B:258:TRP:CD1	2.53	0.44
1:B:282:ASN:CG	1:B:284:THR:HG23	2.38	0.44
1:B:731:MET:N	1:B:1058:HIS:HE1	2.15	0.44
1:B:973:ILE:HG13	1:B:974:SER:N	2.32	0.44
1:C:101:ILE:HG23	1:C:240:THR:OG1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:105:ILE:HG22	1:C:118:LEU:CB	2.47	0.44
1:C:140:PHE:CD2	1:C:244:LEU:HD21	2.51	0.44
1:C:275:PHE:CD1	1:C:289:VAL:O	2.70	0.44
1:C:511:VAL:HG12	1:C:513:LEU:CD1	2.46	0.44
1:C:603:ASN:OD1	1:C:603:ASN:C	2.56	0.44
1:A:68:ILE:O	1:A:77:LYS:HA	2.18	0.44
1:A:108:THR:HG23	1:A:235:ILE:HA	1.99	0.44
1:A:309:GLU:OE1	1:A:309:GLU:HA	2.17	0.44
1:A:444:LYS:O	1:A:497:PHE:O	2.36	0.44
1:A:517:LEU:HD23	1:A:518:LEU:N	2.32	0.44
1:A:723:THR:HG22	1:A:724:THR:N	2.32	0.44
1:A:1135:ASN:OD1	1:A:1135:ASN:C	2.54	0.44
1:B:115:GLN:NE2	1:B:165:ASN:HB2	2.33	0.44
1:B:127:VAL:HG11	4:B:1301:NAG:O5	2.18	0.44
1:B:131:CYS:HA	1:B:165:ASN:O	2.18	0.44
1:C:102:ARG:HB3	1:C:121:ASN:O	2.17	0.44
1:C:449:TYR:N	2:D:53:ALA:CB	2.81	0.44
1:C:453:TYR:CD2	1:C:493:GLN:O	2.70	0.44
1:C:758:SER:HG	1:C:761:THR:HG1	1.62	0.44
1:C:914:ASN:O	1:C:918:GLU:N	2.50	0.44
1:C:1007:TYR:HA	1:C:1010:GLN:OE1	2.17	0.44
1:C:1052:PHE:N	1:C:1052:PHE:CD1	2.85	0.44
1:A:275:PHE:CD1	1:A:289:VAL:O	2.70	0.44
1:A:740:MET:O	1:A:744:GLY:N	2.50	0.44
1:A:959:LEU:HA	1:A:1007:TYR:HE2	1.83	0.44
1:A:1071:GLN:NE2	1:A:1071:GLN:CA	2.81	0.44
1:B:77:LYS:O	1:B:78:ARG:C	2.56	0.44
1:B:95:THR:N	1:B:264:ALA:O	2.36	0.44
1:B:108:THR:HG23	1:B:235:ILE:HA	1.99	0.44
1:B:747:THR:O	1:B:750:SER:OG	2.29	0.44
1:B:1083:HIS:ND1	1:B:1084:ASP:CG	2.59	0.44
1:C:185:ASN:HB2	1:C:212:LEU:O	2.18	0.44
1:C:246:ARG:HD3	1:C:258:TRP:CD1	2.53	0.44
1:C:451:TYR:O	2:D:32:CYS:HB2	2.18	0.44
1:C:544:ASN:HB3	1:C:579:PRO:HB3	1.99	0.44
1:C:1107:ARG:HD2	1:C:1107:ARG:N	2.33	0.44
1:A:101:ILE:HG23	1:A:240:THR:OG1	2.17	0.44
1:A:185:ASN:HB2	1:A:212:LEU:O	2.18	0.44
1:A:298:GLU:O	1:A:302:THR:HG23	2.18	0.44
1:B:133:PHE:CD1	1:B:162:SER:N	2.85	0.44
1:B:402:ILE:O	1:B:508:TYR:N	2.29	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:562:PHE:CZ	1:C:41:LYS:HE2	2.52	0.44
1:B:577:ARG:HG3	1:B:584:ILE:HD13	1.99	0.44
1:C:68:ILE:O	1:C:77:LYS:HA	2.18	0.44
1:C:298:GLU:O	1:C:302:THR:HG23	2.17	0.44
1:C:330:PRO:CA	1:C:580:GLN:CD	2.84	0.44
1:C:452:LEU:HD11	2:D:33:ARG:CB	2.47	0.44
1:C:515:PHE:N	1:C:515:PHE:CD1	2.82	0.44
1:C:559:PHE:HB3	1:C:577:ARG:NH2	2.32	0.44
1:C:740:MET:O	1:C:744:GLY:N	2.50	0.44
1:C:1119:ASN:OD1	1:C:1119:ASN:N	2.51	0.44
2:D:38:ARG:HG2	2:D:48:VAL:HG23	2.00	0.44
1:A:557:LYS:HA	1:A:557:LYS:HZ2	1.82	0.44
1:A:565:PHE:CZ	1:B:42:VAL:HG12	2.52	0.44
1:B:985:ASP:C	1:B:985:ASP:OD2	2.55	0.44
1:B:1071:GLN:NE2	1:B:1071:GLN:CA	2.81	0.44
1:B:1119:ASN:OD1	1:B:1119:ASN:N	2.51	0.44
1:C:482:GLY:HA3	2:D:44:GLU:HG3	2.00	0.44
1:C:611:LEU:HB3	1:C:611:LEU:HD23	1.97	0.44
1:C:861:LEU:HD22	1:C:861:LEU:H	1.83	0.44
1:C:959:LEU:HA	1:C:1007:TYR:HE2	1.83	0.44
1:C:1071:GLN:NE2	1:C:1071:GLN:CA	2.81	0.44
1:A:102:ARG:HB3	1:A:121:ASN:O	2.17	0.44
1:B:48:LEU:CD2	1:B:278:LYS:NZ	2.81	0.44
1:B:275:PHE:CD1	1:B:289:VAL:O	2.70	0.44
1:B:959:LEU:HA	1:B:1007:TYR:HE2	1.83	0.44
1:B:1107:ARG:N	1:B:1107:ARG:HD2	2.33	0.44
1:C:234:ASN:OD1	1:C:234:ASN:C	2.56	0.44
1:C:765:ARG:HH11	1:C:765:ARG:HD2	1.35	0.44
1:C:985:ASP:OD2	1:C:985:ASP:C	2.55	0.44
1:A:115:GLN:NE2	1:A:165:ASN:HB2	2.33	0.44
1:A:131:CYS:HA	1:A:165:ASN:O	2.18	0.44
1:A:1107:ARG:N	1:A:1107:ARG:HD2	2.33	0.44
1:B:22:THR:HG23	1:B:76:THR:CB	2.46	0.44
1:B:68:ILE:O	1:B:77:LYS:HA	2.18	0.44
1:B:151:SER:HB3	4:B:1302:NAG:H61	2.00	0.44
1:B:861:LEU:H	1:B:861:LEU:HD22	1.83	0.44
1:B:914:ASN:O	1:B:918:GLU:N	2.50	0.44
1:C:433:VAL:HG13	1:C:433:VAL:O	2.16	0.44
1:C:452:LEU:CB	2:D:104:CYS:HB3	2.48	0.44
1:A:48:LEU:CD2	1:A:278:LYS:NZ	2.81	0.43
1:A:293:LEU:HD22	1:A:294:ASP:HB2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:394:ASN:OD1	1:A:395:VAL:N	2.51	0.43
1:B:90:VAL:O	1:B:193:VAL:HA	2.18	0.43
1:B:185:ASN:HB2	1:B:212:LEU:O	2.18	0.43
1:B:291:CYS:SG	1:B:298:GLU:HA	2.57	0.43
1:B:490:PHE:CD2	1:B:492:LEU:HD13	2.53	0.43
1:B:1052:PHE:N	1:B:1052:PHE:HD1	2.16	0.43
1:C:122:ASN:CG	3:G:1:NAG:C7	2.86	0.43
1:C:209:PRO:O	1:C:210:ILE:HD13	2.18	0.43
1:C:291:CYS:SG	1:C:298:GLU:HA	2.57	0.43
1:C:581:THR:OG1	1:C:583:GLU:HG3	2.18	0.43
1:C:616:ASN:HB2	1:C:619:GLU:CD	2.39	0.43
1:C:733:LYS:HG3	1:C:733:LYS:O	2.18	0.43
1:C:980:ILE:O	1:C:984:LEU:N	2.42	0.43
1:A:234:ASN:C	1:A:234:ASN:OD1	2.56	0.43
1:A:563:GLN:HE22	1:B:283:GLY:HA3	1.83	0.43
1:A:616:ASN:HB2	1:A:619:GLU:CD	2.39	0.43
1:A:714:ILE:CG2	1:A:715:PRO:CD	2.96	0.43
1:A:731:MET:N	1:A:1058:HIS:HE1	2.15	0.43
1:B:344:ALA:CB	1:B:509:ARG:HE	2.30	0.43
1:B:699:LEU:H	1:B:699:LEU:HG	1.66	0.43
1:B:730:SER:HB2	1:B:1058:HIS:CE1	2.53	0.43
1:B:747:THR:O	1:B:751:ASN:OD1	2.36	0.43
1:B:806:LEU:HB3	1:B:807:PRO:HD2	2.00	0.43
1:B:1050:MET:HB3	1:B:1065:VAL:HB	2.00	0.43
1:C:714:ILE:CG2	1:C:715:PRO:CD	2.96	0.43
2:D:67:LEU:HD11	2:D:80:LEU:CG	2.47	0.43
1:A:77:LYS:O	1:A:78:ARG:C	2.56	0.43
1:A:920:GLN:HA	1:A:923:ILE:CG1	2.42	0.43
1:B:141:LEU:N	1:B:141:LEU:HD23	2.34	0.43
1:B:209:PRO:O	1:B:210:ILE:HD13	2.18	0.43
1:B:234:ASN:C	1:B:234:ASN:OD1	2.56	0.43
1:C:1050:MET:HB3	1:C:1065:VAL:HB	2.00	0.43
1:A:41:LYS:HB2	1:C:563:GLN:HA	2.00	0.43
1:A:78:ARG:HD2	1:A:78:ARG:HA	1.10	0.43
1:A:90:VAL:O	1:A:193:VAL:HA	2.18	0.43
1:A:143:VAL:HG11	1:A:245:HIS:HE1	1.82	0.43
1:B:204:TYR:CE1	1:B:225:PRO:HB3	2.54	0.43
1:B:350:VAL:HG23	1:B:400:PHE:CD2	2.53	0.43
1:B:758:SER:HG	1:B:761:THR:HG1	1.64	0.43
1:B:920:GLN:HA	1:B:923:ILE:CG1	2.42	0.43
1:B:984:LEU:HD22	1:B:988:GLU:OE2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:856:ASN:OD1	1:C:858:LEU:N	2.38	0.43
1:C:925:ASN:O	1:C:928:ASN:OD1	2.37	0.43
2:D:4:LEU:HD23	2:D:95:CYS:SG	2.58	0.43
2:D:22:CYS:HB3	2:D:78:VAL:HG23	1.99	0.43
1:A:61:ASN:ND2	4:A:1306:NAG:C1	2.81	0.43
1:A:209:PRO:O	1:A:210:ILE:HD13	2.18	0.43
1:A:379:CYS:HA	1:A:432:CYS:HA	1.99	0.43
1:A:553:THR:HG22	1:A:588:THR:HG21	2.01	0.43
1:A:925:ASN:O	1:A:928:ASN:OD1	2.37	0.43
1:B:356:LYS:N	1:B:397:ALA:O	2.49	0.43
1:B:538:CYS:N	1:B:551:VAL:HG22	2.34	0.43
1:C:77:LYS:O	1:C:78:ARG:C	2.56	0.43
1:C:309:GLU:OE1	1:C:309:GLU:HA	2.17	0.43
1:C:517:LEU:HD12	1:C:518:LEU:H	1.84	0.43
1:C:707:TYR:CG	1:C:708:SER:N	2.85	0.43
1:C:1052:PHE:N	1:C:1052:PHE:HD1	2.16	0.43
1:A:22:THR:HG23	1:A:76:THR:CG2	2.48	0.43
1:A:35:GLY:O	1:A:55:PHE:CD2	2.71	0.43
1:A:78:ARG:C	1:A:78:ARG:NE	2.72	0.43
1:A:560:LEU:HD12	1:A:562:PHE:HE1	1.84	0.43
1:A:578:ASP:O	1:A:582:LEU:N	2.50	0.43
1:A:747:THR:O	1:A:751:ASN:OD1	2.35	0.43
1:A:1050:MET:CG	1:A:1051:SER:H	2.21	0.43
1:A:1089:PHE:O	1:A:1121:PHE:N	2.42	0.43
1:B:22:THR:HG23	1:B:76:THR:CG2	2.48	0.43
1:B:78:ARG:C	1:B:78:ARG:NE	2.72	0.43
1:B:199:GLY:O	1:B:229:LEU:O	2.37	0.43
1:B:324:GLU:H	1:B:539:VAL:HB	1.84	0.43
1:B:616:ASN:HB2	1:B:619:GLU:CD	2.39	0.43
1:B:714:ILE:CG2	1:B:715:PRO:CD	2.96	0.43
1:C:48:LEU:CD2	1:C:278:LYS:NZ	2.81	0.43
1:C:115:GLN:NE2	1:C:165:ASN:HB2	2.33	0.43
1:C:255:SER:CA	1:C:258:TRP:HE1	2.32	0.43
1:C:591:SER:O	1:C:592:PHE:HB3	2.18	0.43
1:A:199:GLY:O	1:A:229:LEU:O	2.37	0.43
1:A:557:LYS:O	1:A:584:ILE:HG21	2.19	0.43
1:A:872:GLN:OE1	1:C:699:LEU:HD13	2.19	0.43
1:B:299:THR:HG22	1:B:597:VAL:HG21	2.01	0.43
1:B:603:ASN:OD1	1:B:603:ASN:C	2.56	0.43
1:B:865:LEU:O	1:B:870:ILE:HD11	2.19	0.43
1:C:90:VAL:O	1:C:193:VAL:HA	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:246:ARG:HD2	1:C:253:ASP:O	2.19	0.43
1:C:454:ARG:HE	1:C:492:LEU:HD13	1.83	0.43
1:C:973:ILE:HG13	1:C:974:SER:N	2.32	0.43
1:A:40:ASP:C	1:A:41:LYS:HZ3	2.21	0.43
1:A:255:SER:CA	1:A:258:TRP:HE1	2.32	0.43
1:A:358:ILE:HD12	1:A:395:VAL:O	2.18	0.43
1:A:567:ARG:CG	1:B:44:ARG:NH2	2.82	0.43
1:A:730:SER:HB2	1:A:1058:HIS:CE1	2.53	0.43
1:A:984:LEU:HD22	1:A:988:GLU:OE2	2.18	0.43
1:B:298:GLU:O	1:B:302:THR:HG23	2.18	0.43
1:B:476:GLY:CA	1:B:477[A]:SER:HB3	2.49	0.43
1:B:568:ASP:HA	1:C:44:ARG:NH2	2.34	0.43
1:C:152:TRP:HE3	1:C:245:HIS:CG	2.34	0.43
1:C:580:GLN:OE1	1:C:580:GLN:CA	2.67	0.43
2:D:92:VAL:O	2:D:92:VAL:HG13	2.18	0.43
1:A:95:THR:N	1:A:264:ALA:O	2.36	0.43
1:A:533:LEU:HD12	1:A:534:VAL:N	2.34	0.43
1:A:573:THR:HB	1:A:587:ILE:HD13	2.01	0.43
1:A:733:LYS:HG3	1:A:733:LYS:O	2.18	0.43
1:A:805:ILE:CA	1:A:816:SER:HB2	2.49	0.43
1:C:22:THR:HG23	1:C:76:THR:CG2	2.48	0.43
1:C:143:VAL:CG1	1:C:245:HIS:ND1	2.82	0.43
1:C:449:TYR:O	1:C:449:TYR:CD1	2.72	0.43
1:C:699:LEU:H	1:C:699:LEU:HG	1.66	0.43
1:C:714:ILE:HG21	1:C:1109:PHE:O	2.19	0.43
1:C:730:SER:CB	1:C:1058:HIS:CE1	3.02	0.43
1:C:781:VAL:HG12	1:C:782:PHE:CD1	2.54	0.43
1:C:805:ILE:CA	1:C:816:SER:HB2	2.49	0.43
1:C:984:LEU:HD22	1:C:988:GLU:OE2	2.18	0.43
1:C:1116:THR:HB	1:C:1119:ASN:OD1	2.19	0.43
1:C:1142:GLN:N	1:C:1143:PRO:CD	2.82	0.43
1:A:37:TYR:OH	1:A:53:ASP:CG	2.57	0.43
1:A:44:ARG:O	1:A:279:TYR:CB	2.67	0.43
1:A:204:TYR:CE1	1:A:225:PRO:HB3	2.54	0.43
1:B:1014:ARG:N	1:B:1014:ARG:CD	2.70	0.43
1:B:1142:GLN:N	1:B:1143:PRO:CD	2.82	0.43
1:C:35:GLY:O	1:C:55:PHE:CD2	2.72	0.43
1:C:78:ARG:HD2	1:C:78:ARG:HA	1.10	0.43
1:C:513:LEU:HD22	1:C:513:LEU:N	2.34	0.43
1:C:730:SER:HB2	1:C:1058:HIS:CE1	2.53	0.43
1:C:865:LEU:O	1:C:870:ILE:HD11	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:942:PRO:O	1:C:942:PRO:CD	2.67	0.43
1:A:564:GLN:O	1:A:577:ARG:N	2.48	0.42
1:A:781:VAL:HG12	1:A:782:PHE:CD1	2.54	0.42
1:A:1116:THR:HB	1:A:1119:ASN:OD1	2.19	0.42
1:A:1119:ASN:OD1	1:A:1119:ASN:N	2.51	0.42
1:B:33:THR:O	1:B:34:ARG:HD3	2.19	0.42
1:B:255:SER:CA	1:B:258:TRP:HE1	2.32	0.42
1:B:332:ILE:HD11	1:B:362:VAL:HG13	2.01	0.42
1:B:434:ILE:O	1:B:510:VAL:HA	2.19	0.42
1:B:473:TYR:HB2	1:B:491:PRO:HB3	2.00	0.42
1:B:781:VAL:HG12	1:B:782:PHE:CD1	2.54	0.42
1:B:805:ILE:CA	1:B:816:SER:HB2	2.49	0.42
1:B:1039:ARG:NH2	1:B:1042:PHE:CD1	2.87	0.42
1:B:1143:PRO:O	1:B:1146:ASP:O	2.37	0.42
1:C:44:ARG:O	1:C:279:TYR:CB	2.67	0.42
1:C:78:ARG:C	1:C:78:ARG:NE	2.72	0.42
1:C:143:VAL:HG11	1:C:245:HIS:HE1	1.82	0.42
1:C:199:GLY:O	1:C:229:LEU:O	2.37	0.42
1:A:143:VAL:CG1	1:A:245:HIS:ND1	2.82	0.42
1:A:730:SER:CB	1:A:1058:HIS:CE1	3.02	0.42
1:A:806:LEU:HB3	1:A:807:PRO:HD2	2.00	0.42
1:A:1143:PRO:O	1:A:1146:ASP:O	2.38	0.42
1:B:35:GLY:O	1:B:55:PHE:CD2	2.71	0.42
1:B:486:PHE:CE2	1:C:377:PHE:HB2	2.54	0.42
1:B:942:PRO:O	1:B:942:PRO:CD	2.67	0.42
1:C:33:THR:O	1:C:34:ARG:HD3	2.19	0.42
1:C:299:THR:HG22	1:C:597:VAL:HG21	2.01	0.42
1:C:405:ASP:O	1:C:409:GLN:NE2	2.52	0.42
1:C:407:VAL:HG11	1:C:508:TYR:CG	2.54	0.42
1:A:56:LEU:HD13	1:A:269:TYR:O	2.20	0.42
1:A:141:LEU:N	1:A:141:LEU:HD23	2.34	0.42
1:A:152:TRP:HE3	1:A:245:HIS:CG	2.33	0.42
1:A:246:ARG:HD2	1:A:253:ASP:O	2.19	0.42
1:A:616:ASN:HA	1:A:644:GLN:HE22	1.84	0.42
1:A:808:ASP:HB3	1:A:812:PRO:HD2	2.02	0.42
1:A:1052:PHE:N	1:A:1052:PHE:HD1	2.16	0.42
1:B:44:ARG:O	1:B:279:TYR:CB	2.67	0.42
1:B:714:ILE:HG21	1:B:1109:PHE:O	2.19	0.42
1:B:971:GLY:H	1:C:756:TYR:HA	1.84	0.42
1:C:37:TYR:OH	1:C:53:ASP:CG	2.57	0.42
1:C:418:ILE:HG22	1:C:423:TYR:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:544:ASN:ND2	1:C:579:PRO:HB3	2.33	0.42
1:C:865:LEU:HA	1:C:869:MET:SD	2.60	0.42
2:D:59:TYR:CE1	2:D:69:ILE:HG22	2.54	0.42
1:A:33:THR:O	1:A:34:ARG:HD3	2.19	0.42
1:A:299:THR:HG22	1:A:597:VAL:HG21	2.01	0.42
1:A:457:ARG:HD3	1:A:457:ARG:HA	1.93	0.42
1:A:468:ILE:HG22	1:A:468:ILE:O	2.19	0.42
1:A:533:LEU:HD11	1:A:535:LYS:CE	2.50	0.42
1:A:1139:ASP:CG	1:A:1142:GLN:HE22	2.22	0.42
1:A:1142:GLN:N	1:A:1143:PRO:CD	2.82	0.42
1:B:233:ILE:HG21	1:B:233:ILE:HD13	1.80	0.42
1:B:339:GLY:O	1:B:343:ASN:N	2.27	0.42
1:B:383:SER:HB3	1:B:386:LYS:CE	2.49	0.42
1:B:733:LYS:HG3	1:B:733:LYS:O	2.18	0.42
1:B:985:ASP:OD2	1:B:988:GLU:HG2	2.20	0.42
1:B:1110:TYR:CE1	1:B:1112:PRO:CG	3.00	0.42
1:B:1116:THR:HB	1:B:1119:ASN:OD1	2.19	0.42
4:B:1304:NAG:H83	4:B:1304:NAG:H3	2.01	0.42
1:C:141:LEU:HD23	1:C:141:LEU:N	2.34	0.42
1:C:204:TYR:CE1	1:C:225:PRO:HB3	2.54	0.42
1:C:452:LEU:HA	2:D:104:CYS:HG	1.83	0.42
1:C:941:THR:CG2	1:C:944:ALA:HB2	2.50	0.42
1:C:1039:ARG:NH2	1:C:1042:PHE:CD1	2.87	0.42
1:C:1083:HIS:HB3	1:C:1088:HIS:NE2	2.34	0.42
1:C:1097:SER:HA	1:C:1101:HIS:O	2.20	0.42
1:C:1110:TYR:CE1	1:C:1112:PRO:CG	3.00	0.42
1:C:1139:ASP:CG	1:C:1142:GLN:HE22	2.23	0.42
2:D:105:THR:HG22	2:D:106:PHE:N	2.34	0.42
1:A:1039:ARG:NH2	1:A:1042:PHE:CD1	2.87	0.42
1:B:125:ASN:ND2	1:B:172:SER:O	2.46	0.42
1:B:143:VAL:O	1:B:246:ARG:N	2.53	0.42
1:B:246:ARG:HD2	1:B:253:ASP:O	2.19	0.42
1:B:340:GLU:O	1:B:344:ALA:HA	2.19	0.42
1:B:1083:HIS:HB3	1:B:1088:HIS:NE2	2.35	0.42
1:C:328:ARG:HH12	1:C:580:GLN:HG2	1.84	0.42
1:C:390:LEU:HD12	1:C:390:LEU:N	2.35	0.42
1:C:451:TYR:CD2	2:D:100:LYS:NZ	2.86	0.42
1:C:731:MET:N	1:C:1058:HIS:HE1	2.15	0.42
2:D:99:VAL:HB	2:D:107:ASN:CB	2.49	0.42
1:A:50:SER:O	1:A:51:THR:OG1	2.34	0.42
1:A:755:GLN:O	1:C:969:ASN:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:865:LEU:HA	1:A:869:MET:SD	2.60	0.42
1:A:933:LYS:HB2	1:A:933:LYS:HE3	1.82	0.42
1:A:942:PRO:O	1:A:942:PRO:CD	2.67	0.42
1:B:143:VAL:CG1	1:B:245:HIS:ND1	2.82	0.42
1:B:730:SER:CB	1:B:1058:HIS:CE1	3.02	0.42
1:B:941:THR:CG2	1:B:944:ALA:HB2	2.50	0.42
1:B:949:GLN:O	1:B:953:ASN:ND2	2.40	0.42
1:B:1097:SER:HA	1:B:1101:HIS:O	2.20	0.42
1:C:21:ARG:HG2	1:C:21:ARG:O	2.19	0.42
1:C:385:THR:O	1:C:386:LYS:HG2	2.20	0.42
1:C:450:ASN:O	1:C:452:LEU:HD12	2.20	0.42
1:C:453:TYR:CZ	1:C:495:TYR:CE1	3.07	0.42
1:C:715:PRO:HG2	1:C:1069:PRO:HB2	2.02	0.42
1:C:726:ILE:O	1:C:726:ILE:CG2	2.68	0.42
1:C:806:LEU:HB3	1:C:807:PRO:HD2	2.00	0.42
1:C:1143:PRO:O	1:C:1146:ASP:O	2.38	0.42
1:A:726:ILE:HD12	1:A:726:ILE:HA	1.54	0.42
1:A:1050:MET:HB3	1:A:1065:VAL:HB	2.00	0.42
1:B:454:ARG:HA	1:B:491:PRO:O	2.20	0.42
1:B:569:ILE:O	1:B:570:ALA:HB3	2.20	0.42
1:B:715:PRO:HG2	1:B:1069:PRO:HB2	2.02	0.42
1:B:726:ILE:O	1:B:726:ILE:CG2	2.68	0.42
1:B:817:PHE:O	1:B:821:LEU:HG	2.20	0.42
1:C:50:SER:O	1:C:51:THR:OG1	2.34	0.42
1:C:330:PRO:C	1:C:332:ILE:N	2.73	0.42
1:C:530:SER:OG	1:C:531:THR:N	2.52	0.42
1:C:808:ASP:HB3	1:C:812:PRO:HD2	2.02	0.42
1:A:29:THR:HG22	1:A:64:TRP:HE3	1.76	0.42
1:A:199:GLY:HA2	1:A:232:GLY:CA	2.50	0.42
1:A:393:THR:OG1	1:A:516:GLU:OE1	2.37	0.42
1:A:715:PRO:HG2	1:A:1069:PRO:HB2	2.02	0.42
1:A:865:LEU:O	1:A:870:ILE:HD11	2.19	0.42
1:B:21:ARG:O	1:B:21:ARG:HG2	2.20	0.42
1:B:56:LEU:HD13	1:B:269:TYR:O	2.20	0.42
1:B:352:ALA:HB2	1:B:468:ILE:HD12	2.01	0.42
1:B:925:ASN:O	1:B:928:ASN:OD1	2.37	0.42
1:C:30:ASN:HA	1:C:61:ASN:HA	2.02	0.42
1:C:127:VAL:CG1	3:G:1:NAG:C1	2.98	0.42
1:C:143:VAL:O	1:C:246:ARG:N	2.53	0.42
2:D:40:ALA:HB3	2:D:43:LYS:CG	2.50	0.42
1:A:30:ASN:HA	1:A:61:ASN:HA	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:ASN:HD22	4:A:1306:NAG:H5	1.85	0.42
1:A:187:LYS:HB3	1:A:187:LYS:HE3	1.85	0.42
1:B:146:HIS:ND1	1:B:151:SER:O	2.39	0.42
1:B:563:GLN:HG2	1:C:41:LYS:HG3	2.01	0.42
1:B:756:TYR:HD1	1:B:756:TYR:O	2.03	0.42
1:B:865:LEU:HA	1:B:869:MET:SD	2.60	0.42
1:C:122:ASN:OD1	3:G:1:NAG:O7	2.38	0.42
1:C:540:ASN:HA	1:C:549:THR:HG22	2.02	0.42
1:C:579:PRO:HG2	1:C:580:GLN:HE21	1.84	0.42
1:C:584:ILE:HD12	1:C:584:ILE:O	2.19	0.42
1:C:987:PRO:O	1:C:990:GLU:HG2	2.20	0.42
1:A:143:VAL:O	1:A:246:ARG:N	2.53	0.42
1:A:533:LEU:HD11	1:A:535:LYS:HZ3	1.84	0.42
1:A:566:GLY:O	1:A:573:THR:HA	2.20	0.42
1:A:1097:SER:HA	1:A:1101:HIS:O	2.20	0.42
1:B:152:TRP:HB3	1:B:245:HIS:CE1	2.54	0.42
1:B:361:CYS:O	1:B:524:VAL:HG23	2.20	0.42
1:B:616:ASN:HA	1:B:644:GLN:HE22	1.85	0.42
1:B:1139:ASP:CG	1:B:1142:GLN:HE22	2.23	0.42
1:C:164:ASN:OD1	1:C:165:ASN:OD1	2.38	0.42
1:C:200:TYR:HA	1:C:229:LEU:O	2.20	0.42
1:C:343:ASN:N	1:C:343:ASN:OD1	2.52	0.42
1:C:616:ASN:CG	4:C:1305:NAG:O7	2.59	0.42
1:C:878:LEU:O	1:C:881:THR:OG1	2.33	0.42
1:A:703:ASN:ND2	1:B:787:GLN:HG3	2.35	0.41
1:A:714:ILE:HG21	1:A:1109:PHE:O	2.19	0.41
1:A:922:LEU:O	1:A:925:ASN:HB2	2.19	0.41
1:B:453:TYR:CD1	1:B:493:GLN:O	2.73	0.41
1:B:922:LEU:O	1:B:925:ASN:HB2	2.19	0.41
1:C:1089:PHE:O	1:C:1121:PHE:N	2.42	0.41
2:D:52:THR:HG21	2:D:56:ALA:HB3	2.01	0.41
1:A:21:ARG:O	1:A:21:ARG:HG2	2.20	0.41
1:A:231:ILE:HA	1:A:231:ILE:HG23	1.96	0.41
1:B:326:ILE:HG21	1:B:533:LEU:HA	2.01	0.41
1:C:756:TYR:O	1:C:756:TYR:HD1	2.03	0.41
2:D:38:ARG:NE	2:D:46:GLU:OE2	2.53	0.41
1:A:133:PHE:CD1	1:A:162:SER:N	2.84	0.41
1:A:453:TYR:HE2	1:A:495:TYR:N	2.18	0.41
1:A:565:PHE:O	1:B:42:VAL:CA	2.69	0.41
1:A:817:PHE:O	1:A:821:LEU:HG	2.20	0.41
1:A:987:PRO:O	1:A:990:GLU:HG2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:30:ASN:HA	1:B:61:ASN:HA	2.02	0.41
1:B:152:TRP:HE3	1:B:245:HIS:CG	2.33	0.41
1:B:486:PHE:HE2	1:C:377:PHE:HB2	1.86	0.41
1:B:779:GLN:O	1:B:783:ALA:HB3	2.20	0.41
1:B:1107:ARG:CG	1:C:904:TYR:CE1	3.04	0.41
1:C:56:LEU:HD13	1:C:269:TYR:O	2.20	0.41
1:C:199:GLY:HA2	1:C:232:GLY:CA	2.50	0.41
1:C:539:VAL:HB	1:C:552:LEU:HD11	2.02	0.41
1:C:578:ASP:C	1:C:580:GLN:H	2.23	0.41
1:A:32:PHE:CZ	1:A:216:LEU:HB2	2.55	0.41
1:A:104:TRP:CZ2	1:A:192:PHE:CE2	3.09	0.41
1:A:195:LYS:HE3	1:A:202:LYS:HZ1	1.85	0.41
1:A:200:TYR:HA	1:A:229:LEU:O	2.20	0.41
1:A:564:GLN:CD	1:B:41:LYS:HG2	2.41	0.41
1:B:117:LEU:HD13	1:B:130:VAL:HB	2.03	0.41
1:B:574:ASP:CA	1:B:587:ILE:HD13	2.51	0.41
1:B:963:VAL:HA	1:B:966:LEU:HD22	2.03	0.41
1:C:122:ASN:ND2	3:G:1:NAG:C7	2.82	0.41
1:C:444:LYS:HB3	1:C:448:ASN:HA	2.02	0.41
1:C:461:LEU:HD13	1:C:461:LEU:N	2.35	0.41
1:C:569:ILE:HD12	1:C:569:ILE:N	2.36	0.41
1:C:616:ASN:HA	1:C:644:GLN:HE22	1.85	0.41
1:C:922:LEU:O	1:C:925:ASN:HB2	2.19	0.41
1:C:985:ASP:OD2	1:C:988:GLU:HG2	2.19	0.41
1:A:43:PHE:CZ	1:C:559:PHE:CD1	3.08	0.41
1:A:43:PHE:CZ	1:C:559:PHE:CE1	3.09	0.41
1:A:164:ASN:OD1	1:A:165:ASN:OD1	2.38	0.41
1:A:353:TRP:O	1:A:353:TRP:CE3	2.74	0.41
1:A:576:VAL:HG22	1:A:577:ARG:N	2.35	0.41
1:A:941:THR:CG2	1:A:944:ALA:HB2	2.50	0.41
1:B:32:PHE:CZ	1:B:216:LEU:HB2	2.55	0.41
1:B:79:PHE:HE2	1:B:244:LEU:HD22	1.85	0.41
1:B:120:VAL:CG1	1:B:127:VAL:CG2	2.90	0.41
1:B:146:HIS:NE2	4:B:1302:NAG:H4	2.36	0.41
1:B:575:ALA:HB1	1:B:584:ILE:HB	2.02	0.41
1:B:584:ILE:HD13	1:B:584:ILE:N	2.35	0.41
1:B:1095:PHE:HB3	1:B:1115:ILE:HD13	2.03	0.41
1:C:359:SER:HA	1:C:524:VAL:HG21	2.02	0.41
1:C:405:ASP:HB3	1:C:406:GLU:OE1	2.21	0.41
1:C:451:TYR:O	2:D:32:CYS:CB	2.68	0.41
1:C:763:LEU:O	1:C:767:LEU:HG	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:D:33:ARG:NH2	2:D:58:TYR:CE2	2.88	0.41
2:D:99:VAL:HB	2:D:107:ASN:HB2	2.03	0.41
1:A:328:ARG:O	1:A:543:PHE:HA	2.21	0.41
1:A:592:PHE:CE2	1:B:857:GLY:HA2	2.55	0.41
1:A:703:ASN:CG	1:B:787:GLN:CG	2.88	0.41
1:A:723:THR:C	1:A:723:THR:CG2	2.87	0.41
1:A:756:TYR:OH	1:A:998:THR:HG22	2.21	0.41
1:A:872:GLN:HA	1:A:875:SER:HB3	2.02	0.41
1:A:963:VAL:HA	1:A:966:LEU:HD22	2.03	0.41
1:B:200:TYR:HA	1:B:229:LEU:O	2.20	0.41
1:B:353:TRP:O	1:B:466:ARG:CZ	2.69	0.41
1:B:658:ASN:HB3	1:B:660:TYR:CE1	2.56	0.41
1:B:763:LEU:O	1:B:767:LEU:HG	2.21	0.41
1:C:30:ASN:C	1:C:30:ASN:OD1	2.59	0.41
1:C:57:PRO:HB2	1:C:60:SER:OG	2.21	0.41
1:C:93:ALA:HA	1:C:191:GLU:OE1	2.21	0.41
1:C:817:PHE:O	1:C:821:LEU:HG	2.20	0.41
1:C:872:GLN:HA	1:C:875:SER:HB3	2.02	0.41
2:D:2:VAL:HG12	2:D:4:LEU:CD1	2.50	0.41
2:D:36:TRP:CE2	2:D:80:LEU:HB2	2.55	0.41
1:A:130:VAL:CG1	1:A:130:VAL:O	2.69	0.41
1:A:152:TRP:HB3	1:A:245:HIS:CE1	2.55	0.41
1:A:577:ARG:HG3	1:A:582:LEU:HA	2.02	0.41
1:A:763:LEU:O	1:A:767:LEU:HG	2.21	0.41
1:A:804:GLN:HG3	1:A:935:GLN:HE21	1.85	0.41
1:B:277:LEU:HB3	1:B:279:TYR:OH	2.21	0.41
1:B:898:PHE:O	1:B:898:PHE:CD1	2.74	0.41
1:C:117:LEU:CB	1:C:130:VAL:HG23	2.51	0.41
1:C:168:PHE:CG	1:C:169:GLU:N	2.89	0.41
1:C:471:GLU:O	1:C:491:PRO:CD	2.68	0.41
1:C:708:SER:OG	1:C:710:ASN:OD1	2.38	0.41
1:C:963:VAL:HA	1:C:966:LEU:HD22	2.03	0.41
2:D:67:LEU:C	2:D:67:LEU:HD23	2.41	0.41
1:A:57:PRO:HB2	1:A:60:SER:OG	2.21	0.41
1:A:277:LEU:HB3	1:A:279:TYR:OH	2.21	0.41
1:A:565:PHE:O	1:B:42:VAL:HA	2.20	0.41
1:A:583:GLU:O	1:A:585:LEU:HD23	2.20	0.41
1:A:726:ILE:CD1	1:A:1061:VAL:CG2	2.99	0.41
1:A:779:GLN:O	1:A:783:ALA:HB3	2.20	0.41
1:A:985:ASP:OD2	1:A:988:GLU:HG2	2.20	0.41
1:A:1083:HIS:HB3	1:A:1088:HIS:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1087:ALA:CB	1:A:1089:PHE:HE2	2.34	0.41
1:B:231:ILE:HA	1:B:231:ILE:HG23	1.96	0.41
1:B:346:ARG:HA	1:B:346:ARG:NE	2.35	0.41
1:B:395:VAL:HG21	1:B:515:PHE:CD2	2.55	0.41
1:B:577:ARG:HD3	1:B:584:ILE:N	2.35	0.41
1:B:794:ILE:HD11	1:B:796:ASP:OD2	2.20	0.41
1:C:17:ASN:OD1	3:H:1:NAG:H3	2.20	0.41
1:C:32:PHE:CZ	1:C:216:LEU:HB2	2.55	0.41
1:C:236:THR:HG21	3:I:1:NAG:C6	2.51	0.41
2:D:37:TYR:O	2:D:93:TYR:HA	2.21	0.41
1:A:30:ASN:OD1	1:A:30:ASN:C	2.59	0.41
1:A:40:ASP:OD2	1:A:41:LYS:N	2.53	0.41
1:A:64:TRP:CE2	1:A:266:TYR:CZ	3.09	0.41
1:A:152:TRP:CE3	1:A:245:HIS:CD2	3.09	0.41
1:A:168:PHE:CG	1:A:169:GLU:N	2.89	0.41
1:A:190:ARG:HD3	1:A:207:HIS:HB2	2.03	0.41
1:A:272:PRO:C	1:A:273:ARG:HD3	2.41	0.41
1:A:417:LYS:HD2	1:A:453:TYR:CD1	2.55	0.41
1:A:432:CYS:O	1:A:512:VAL:HG13	2.21	0.41
1:A:658:ASN:HB3	1:A:660:TYR:CE1	2.56	0.41
1:A:794:ILE:HD11	1:A:796:ASP:OD2	2.20	0.41
1:B:64:TRP:CE2	1:B:266:TYR:CZ	3.09	0.41
1:B:93:ALA:HA	1:B:191:GLU:OE1	2.21	0.41
1:B:104:TRP:CZ2	1:B:192:PHE:CE2	3.09	0.41
1:B:152:TRP:CE3	1:B:245:HIS:CD2	3.09	0.41
1:B:199:GLY:HA2	1:B:232:GLY:CA	2.50	0.41
1:B:351:TYR:HB3	1:B:453:TYR:CB	2.51	0.41
1:B:560:LEU:N	1:B:563:GLN:HG3	2.36	0.41
1:B:697:MET:SD	1:B:698:SER:O	2.79	0.41
1:B:705:VAL:HG21	1:C:883:THR:CB	2.50	0.41
1:B:987:PRO:O	1:B:990:GLU:HG2	2.20	0.41
1:B:1087:ALA:CB	1:B:1089:PHE:HE2	2.34	0.41
1:C:40:ASP:OD2	1:C:41:LYS:N	2.53	0.41
1:C:152:TRP:CE3	1:C:245:HIS:CD2	3.09	0.41
1:C:231:ILE:HB	1:C:232:GLY:H	1.60	0.41
1:C:490:PHE:CE1	2:D:105:THR:HG23	2.56	0.41
1:C:494:SER:CB	2:D:102:PHE:O	2.69	0.41
1:C:495:TYR:CD2	1:C:497:PHE:CZ	3.09	0.41
1:C:553:THR:HG23	1:C:586:ASP:HB3	2.03	0.41
1:C:747:THR:O	1:C:750:SER:OG	2.29	0.41
1:C:756:TYR:OH	1:C:998:THR:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:779:GLN:O	1:C:783:ALA:HB3	2.20	0.41
1:C:976:VAL:HG12	1:C:979:ASP:H	1.86	0.41
2:D:43:LYS:NZ	2:D:43:LYS:HB2	2.36	0.41
2:D:102:PHE:O	2:D:103:THR:C	2.59	0.41
1:A:14:GLN:HG3	1:A:15:CYS:N	2.36	0.41
1:A:330:PRO:HD3	1:A:544:ASN:HA	2.03	0.41
1:B:28:TYR:CE1	4:B:1307:NAG:H5	2.56	0.41
1:B:164:ASN:OD1	1:B:165:ASN:OD1	2.38	0.41
1:B:383:SER:HB3	1:B:386:LYS:HE2	2.02	0.41
1:B:490:PHE:CG	1:B:492:LEU:CD1	3.04	0.41
1:B:756:TYR:OH	1:B:998:THR:HG22	2.21	0.41
1:C:104:TRP:CZ2	1:C:192:PHE:CE2	3.09	0.41
1:C:190:ARG:HD3	1:C:207:HIS:HB2	2.03	0.41
1:C:299:THR:HG21	1:C:597:VAL:HG11	2.04	0.41
1:C:726:ILE:CD1	1:C:1061:VAL:CG2	2.99	0.41
1:C:804:GLN:HG3	1:C:935:GLN:HE21	1.85	0.41
1:C:1095:PHE:HB3	1:C:1115:ILE:HD13	2.03	0.41
1:A:17:ASN:HD21	3:E:1:NAG:C3	2.34	0.40
1:A:117:LEU:HD13	1:A:130:VAL:HB	2.03	0.40
1:A:233:ILE:CG2	1:A:235:ILE:HG13	2.51	0.40
1:A:368:LEU:HD23	1:A:368:LEU:C	2.41	0.40
1:A:371:SER:O	1:A:372:ALA:HB3	2.21	0.40
1:A:406:GLU:HA	1:A:409:GLN:HB2	2.03	0.40
1:A:818:ILE:CD1	1:A:935:GLN:OE1	2.70	0.40
1:A:1089:PHE:O	1:A:1120:THR:OG1	2.38	0.40
1:B:104:TRP:HA	1:B:240:THR:HA	2.03	0.40
1:B:130:VAL:HG11	1:B:167:THR:OG1	2.21	0.40
1:B:190:ARG:HD3	1:B:207:HIS:HB2	2.03	0.40
1:B:272:PRO:C	1:B:273:ARG:HD3	2.41	0.40
1:B:808:ASP:HB3	1:B:812:PRO:HD2	2.02	0.40
1:B:1117:THR:N	1:B:1138:TYR:O	2.50	0.40
4:B:1311:NAG:O3	4:B:1311:NAG:C7	2.69	0.40
1:C:236:THR:HG21	3:I:1:NAG:O6	2.20	0.40
1:C:697:MET:SD	1:C:698:SER:O	2.79	0.40
1:C:1062:PHE:N	1:C:1062:PHE:CD1	2.89	0.40
3:I:2:NAG:O7	3:I:2:NAG:O3	2.36	0.40
1:A:34:ARG:HD3	1:A:34:ARG:HA	1.87	0.40
1:A:295:PRO:O	1:A:299:THR:HG23	2.21	0.40
1:A:756:TYR:HD1	1:A:756:TYR:O	2.03	0.40
1:A:921:LYS:O	1:A:925:ASN:OD1	2.39	0.40
1:A:1095:PHE:HB3	1:A:1115:ILE:HD13	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:14:GLN:HG3	1:B:15:CYS:N	2.36	0.40
1:B:30:ASN:OD1	1:B:30:ASN:C	2.59	0.40
1:B:34:ARG:NH2	1:B:218:GLN:C	2.74	0.40
1:B:40:ASP:OD2	1:B:41:LYS:N	2.53	0.40
1:B:130:VAL:CG1	1:B:130:VAL:O	2.69	0.40
1:B:299:THR:HG21	1:B:597:VAL:HG11	2.04	0.40
1:B:562:PHE:CE2	1:C:41:LYS:CE	3.03	0.40
1:B:723:THR:C	1:B:723:THR:CG2	2.87	0.40
1:B:726:ILE:CD1	1:B:1061:VAL:CG2	2.99	0.40
1:B:1053:PRO:HA	1:B:1062:PHE:HA	2.04	0.40
1:C:80:ASP:OD2	1:C:80:ASP:C	2.60	0.40
1:C:152:TRP:HB3	1:C:245:HIS:CE1	2.54	0.40
1:C:363:ALA:HB3	1:C:365:TYR:CE1	2.56	0.40
1:C:569:ILE:O	1:C:570:ALA:CB	2.70	0.40
1:C:1087:ALA:CB	1:C:1089:PHE:HE2	2.34	0.40
2:D:3:GLN:C	2:D:4:LEU:HD12	2.42	0.40
2:D:115:VAL:O	2:D:115:VAL:HG23	2.22	0.40
1:A:34:ARG:NH2	1:A:218:GLN:C	2.74	0.40
1:A:93:ALA:HA	1:A:191:GLU:OE1	2.21	0.40
1:A:195:LYS:HE3	1:A:202:LYS:NZ	2.36	0.40
1:A:233:ILE:HG21	1:A:233:ILE:HD13	1.80	0.40
1:A:752:LEU:O	1:A:755:GLN:OE1	2.39	0.40
1:A:898:PHE:O	1:A:898:PHE:CD1	2.74	0.40
1:B:804:GLN:HG3	1:B:935:GLN:HE21	1.85	0.40
1:C:18:LEU:HD13	1:C:258:TRP:CZ2	2.56	0.40
1:C:48:LEU:HD23	1:C:278:LYS:HD2	2.04	0.40
1:C:277:LEU:HB3	1:C:279:TYR:OH	2.21	0.40
1:C:774:GLN:C	1:C:774:GLN:NE2	2.74	0.40
1:C:924:ALA:O	1:C:928:ASN:OD1	2.39	0.40
1:C:1083:HIS:HB3	1:C:1088:HIS:CD2	2.57	0.40
3:E:1:NAG:H3	3:E:1:NAG:H83	2.03	0.40
1:A:359:SER:HA	1:A:524:VAL:HG11	2.02	0.40
1:A:528:LYS:HB3	1:A:529:LYS:HD2	2.04	0.40
1:A:716:THR:HG22	1:A:1110:TYR:CB	2.51	0.40
1:A:1053:PRO:HA	1:A:1062:PHE:HA	2.04	0.40
1:B:57:PRO:HB2	1:B:60:SER:OG	2.21	0.40
1:B:117:LEU:CB	1:B:130:VAL:HG23	2.51	0.40
1:B:168:PHE:CG	1:B:169:GLU:N	2.89	0.40
1:B:339:GLY:O	1:B:343:ASN:OD1	2.39	0.40
1:B:872:GLN:HA	1:B:875:SER:HB3	2.02	0.40
1:B:933:LYS:HB2	1:B:933:LYS:HE3	1.82	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:450:ASN:HA	2:D:32:CYS:O	2.22	0.40
1:C:538:CYS:O	1:C:538:CYS:SG	2.79	0.40
1:A:17:ASN:ND2	3:E:1:NAG:O3	2.55	0.40
1:A:365:TYR:HB2	1:A:387:LEU:HB2	2.03	0.40
1:A:503:VAL:HG13	1:A:508:TYR:OH	2.21	0.40
1:A:812:PRO:O	1:A:813:SER:HB3	2.22	0.40
1:B:558:LYS:NZ	1:B:560:LEU:HD12	2.36	0.40
1:B:562:PHE:CD2	1:C:41:LYS:CD	3.01	0.40
1:C:64:TRP:CE2	1:C:266:TYR:CZ	3.09	0.40
1:C:104:TRP:HA	1:C:240:THR:HA	2.03	0.40
1:C:115:GLN:NE2	1:C:165:ASN:O	2.51	0.40
1:C:117:LEU:HD13	1:C:130:VAL:HB	2.03	0.40
1:C:295:PRO:O	1:C:299:THR:HG23	2.21	0.40
1:C:339:GLY:O	1:C:344:ALA:N	2.54	0.40
1:C:452:LEU:HA	2:D:104:CYS:CB	2.51	0.40
1:C:473:TYR:HB2	1:C:491:PRO:CG	2.51	0.40
1:C:818:ILE:CD1	1:C:935:GLN:OE1	2.70	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	1045/1264 (83%)	959 (92%)	85 (8%)	1 (0%)	51	84
1	B	1039/1264 (82%)	948 (91%)	90 (9%)	1 (0%)	51	84
1	C	1045/1264 (83%)	942 (90%)	98 (9%)	5 (0%)	29	67
2	D	117/124 (94%)	113 (97%)	4 (3%)	0	100	100
All	All	3246/3916 (83%)	2962 (91%)	277 (8%)	7 (0%)	50	79

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	C	332	ILE
1	C	459	SER
1	C	530	SER
1	C	591	SER
1	A	942	PRO
1	B	942	PRO
1	C	942	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	929/1100 (84%)	826 (89%)	103 (11%)	6 27
1	B	925/1100 (84%)	810 (88%)	115 (12%)	4 24
1	C	929/1100 (84%)	809 (87%)	120 (13%)	4 23
2	D	96/100 (96%)	91 (95%)	5 (5%)	23 53
All	All	2879/3400 (85%)	2536 (88%)	343 (12%)	8 25

All (343) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	LYS
1	A	42	VAL
1	A	49	HIS
1	A	52	GLN
1	A	53	ASP
1	A	58	PHE
1	A	69	HIS
1	A	78	ARG
1	A	79	PHE
1	A	86	PHE
1	A	91	TYR
1	A	92	PHE
1	A	99	ASN
1	A	106	PHE
1	A	118	LEU

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Mol	Chain	Res	Type
1	A	133	PHE
1	A	140	PHE
1	A	145	TYR
1	A	152	TRP
1	A	157	PHE
1	A	164	ASN
1	A	165	ASN
1	A	188	ASN
1	A	192	PHE
1	A	201	PHE
1	A	238	PHE
1	A	253	ASP
1	A	269	TYR
1	A	279	TYR
1	A	290	ASP
1	A	291	CYS
1	A	306	PHE
1	A	320	VAL
1	A	323	THR
1	A	326	ILE
1	A	331	ASN
1	A	335	LEU
1	A	354	ASN
1	A	356	LYS
1	A	368	LEU
1	A	370	ASN
1	A	373	SER
1	A	377	PHE
1	A	378	LYS
1	A	402	ILE
1	A	410	ILE
1	A	425	LEU
1	A	432	CYS
1	A	443	SER
1	A	452	LEU
1	A	455	LEU
1	A	457	ARG
1	A	460[A]	ASN
1	A	460[B]	ASN
1	A	461	LEU
1	A	462	LYS
1	A	464	PHE

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Mol	Chain	Res	Type
1	A	492	LEU
1	A	497	PHE
1	A	531	THR
1	A	535	LYS
1	A	536	ASN
1	A	537	LYS
1	A	555	SER
1	A	558	LYS
1	A	559	PHE
1	A	562	PHE
1	A	573	THR
1	A	580	GLN
1	A	585	LEU
1	A	588	THR
1	A	651	ILE
1	A	660	TYR
1	A	674	TYR
1	A	695	TYR
1	A	703	ASN
1	A	751	ASN
1	A	756	TYR
1	A	797	PHE
1	A	886	TRP
1	A	902	MET
1	A	915	VAL
1	A	919	ASN
1	A	920	GLN
1	A	933	LYS
1	A	954	GLN
1	A	959	LEU
1	A	966	LEU
1	A	978	ASN
1	A	983	ARG
1	A	1012	LEU
1	A	1014	ARG
1	A	1023	ASN
1	A	1047	TYR
1	A	1066	THR
1	A	1067	TYR
1	A	1072	GLU
1	A	1091	ARG
1	A	1095	PHE

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Mol	Chain	Res	Type
1	A	1110	TYR
1	A	1113	GLN
1	A	1118	ASP
1	A	1139	ASP
1	B	41	LYS
1	B	42	VAL
1	B	49	HIS
1	B	52	GLN
1	B	53	ASP
1	B	58	PHE
1	B	69	HIS
1	B	78	ARG
1	B	79	PHE
1	B	86	PHE
1	B	91	TYR
1	B	92	PHE
1	B	99	ASN
1	B	106	PHE
1	B	118	LEU
1	B	133	PHE
1	B	140	PHE
1	B	145	TYR
1	B	152	TRP
1	B	157	PHE
1	B	164	ASN
1	B	165	ASN
1	B	188	ASN
1	B	192	PHE
1	B	201	PHE
1	B	238	PHE
1	B	253	ASP
1	B	269	TYR
1	B	279	TYR
1	B	290	ASP
1	B	291	CYS
1	B	306	PHE
1	B	323	THR
1	B	331	ASN
1	B	332	ILE
1	B	343	ASN
1	B	346	ARG
1	B	351	TYR

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Mol	Chain	Res	Type
1	B	354	ASN
1	B	359	SER
1	B	369	TYR
1	B	370	ASN
1	B	374	PHE
1	B	378	LYS
1	B	386	LYS
1	B	390	LEU
1	B	391	CYS
1	B	396	TYR
1	B	403	ARG
1	B	409	GLN
1	B	423	TYR
1	B	430	THR
1	B	436	TRP
1	B	439	ASN
1	B	444	LYS
1	B	452	LEU
1	B	453	TYR
1	B	454	ARG
1	B	455	LEU
1	B	456	PHE
1	B	458	LYS
1	B	461	LEU
1	B	462	LYS
1	B	492	LEU
1	B	493	GLN
1	B	494	SER
1	B	495	TYR
1	B	509	ARG
1	B	515	PHE
1	B	525	CYS
1	B	529	LYS
1	B	535	LYS
1	B	536	ASN
1	B	537	LYS
1	B	539	VAL
1	B	555	SER
1	B	557	LYS
1	B	558	LYS
1	B	562	PHE
1	B	568	ASP

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Mol	Chain	Res	Type
1	B	569	ILE
1	B	584	ILE
1	B	586	ASP
1	B	590	CYS
1	B	651	ILE
1	B	660	TYR
1	B	674	TYR
1	B	695	TYR
1	B	743	CYS
1	B	751	ASN
1	B	756	TYR
1	B	797	PHE
1	B	886	TRP
1	B	902	MET
1	B	915	VAL
1	B	919	ASN
1	B	920	GLN
1	B	933	LYS
1	B	954	GLN
1	B	959	LEU
1	B	966	LEU
1	B	978	ASN
1	B	983	ARG
1	B	1012	LEU
1	B	1014	ARG
1	B	1023	ASN
1	B	1047	TYR
1	B	1067	TYR
1	B	1072	GLU
1	B	1091	ARG
1	B	1095	PHE
1	B	1110	TYR
1	B	1113	GLN
1	B	1118	ASP
1	B	1139	ASP
1	C	41	LYS
1	C	42	VAL
1	C	49	HIS
1	C	52	GLN
1	C	53	ASP
1	C	58	PHE
1	C	69	HIS

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Mol	Chain	Res	Type
1	C	78	ARG
1	C	79	PHE
1	C	86	PHE
1	C	91	TYR
1	C	92	PHE
1	C	99	ASN
1	C	106	PHE
1	C	118	LEU
1	C	133	PHE
1	C	140	PHE
1	C	145	TYR
1	C	152	TRP
1	C	157	PHE
1	C	164	ASN
1	C	165	ASN
1	C	188	ASN
1	C	192	PHE
1	C	201	PHE
1	C	238	PHE
1	C	253	ASP
1	C	269	TYR
1	C	279	TYR
1	C	290	ASP
1	C	291	CYS
1	C	306	PHE
1	C	320	VAL
1	C	321	GLN
1	C	323	THR
1	C	326	ILE
1	C	328	ARG
1	C	329	PHE
1	C	333	THR
1	C	334	ASN
1	C	343	ASN
1	C	346	ARG
1	C	364	ASP
1	C	377	PHE
1	C	378	LYS
1	C	391	CYS
1	C	392	PHE
1	C	398	ASP
1	C	399	SER

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Mol	Chain	Res	Type
1	C	408	ARG
1	C	409	GLN
1	C	417	LYS
1	C	422	ASN
1	C	423	TYR
1	C	444	LYS
1	C	450	ASN
1	C	454	ARG
1	C	457	ARG
1	C	460[A]	ASN
1	C	460[B]	ASN
1	C	461	LEU
1	C	464	PHE
1	C	466	ARG
1	C	468	ILE
1	C	486	PHE
1	C	487	ASN
1	C	490	PHE
1	C	492	LEU
1	C	505	TYR
1	C	525	CYS
1	C	528	LYS
1	C	529	LYS
1	C	534	VAL
1	C	537	LYS
1	C	538	CYS
1	C	544	ASN
1	C	552	LEU
1	C	555	SER
1	C	558	LYS
1	C	560	LEU
1	C	562	PHE
1	C	563	GLN
1	C	565	PHE
1	C	572	THR
1	C	580	GLN
1	C	584	ILE
1	C	588	THR
1	C	590	CYS
1	C	651	ILE
1	C	660	TYR
1	C	674	TYR

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Mol	Chain	Res	Type
1	C	695	TYR
1	C	703	ASN
1	C	743	CYS
1	C	751	ASN
1	C	756	TYR
1	C	797	PHE
1	C	886	TRP
1	C	902	MET
1	C	915	VAL
1	C	919	ASN
1	C	920	GLN
1	C	933	LYS
1	C	954	GLN
1	C	959	LEU
1	C	966	LEU
1	C	978	ASN
1	C	983	ARG
1	C	1012	LEU
1	C	1014	ARG
1	C	1023	ASN
1	C	1047	TYR
1	C	1067	TYR
1	C	1072	GLU
1	C	1091	ARG
1	C	1095	PHE
1	C	1110	TYR
1	C	1113	GLN
1	C	1118	ASP
1	C	1139	ASP
2	D	32	CYS
2	D	43	LYS
2	D	88	GLU
2	D	100	LYS
2	D	104	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (29) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	61	ASN
1	A	66	HIS
1	A	314	GLN
1	A	388	ASN

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Mol	Chain	Res	Type
1	A	414	GLN
1	A	437	ASN
1	A	703	ASN
1	A	764	ASN
1	A	955	ASN
1	A	1101	HIS
1	A	1142	GLN
1	B	66	HIS
1	B	394	ASN
1	B	409	GLN
1	B	498	GLN
1	B	544	ASN
1	B	764	ASN
1	B	787	GLN
1	B	955	ASN
1	B	1101	HIS
1	C	66	HIS
1	C	164	ASN
1	C	450	ASN
1	C	498	GLN
1	C	556	ASN
1	C	563	GLN
1	C	764	ASN
1	C	955	ASN
2	D	73	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](#)

10 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
3	NAG	E	1	3	14,14,15	0.63	1 (7%)	17,19,21	1.60	4 (23%)
3	NAG	E	2	3	14,14,15	0.45	0	17,19,21	0.44	0
3	NAG	F	1	3	14,14,15	0.26	0	17,19,21	0.43	0
3	NAG	F	2	3	14,14,15	0.20	0	17,19,21	0.42	0
3	NAG	G	1	3,1	14,14,15	1.23	2 (14%)	17,19,21	0.96	1 (5%)
3	NAG	G	2	3	14,14,15	0.37	0	17,19,21	0.87	1 (5%)
3	NAG	H	1	3	14,14,15	0.21	0	17,19,21	0.55	0
3	NAG	H	2	3	14,14,15	0.34	0	17,19,21	0.59	0
3	NAG	I	1	3,1	14,14,15	1.51	1 (7%)	17,19,21	0.49	0
3	NAG	I	2	3	14,14,15	1.02	2 (14%)	17,19,21	0.70	1 (5%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	NAG	E	1	3	-	6/6/23/26	0/1/1/1
3	NAG	E	2	3	-	0/6/23/26	0/1/1/1
3	NAG	F	1	3	-	4/6/23/26	0/1/1/1
3	NAG	F	2	3	-	0/6/23/26	0/1/1/1
3	NAG	G	1	3,1	-	3/6/23/26	0/1/1/1
3	NAG	G	2	3	-	2/6/23/26	0/1/1/1
3	NAG	H	1	3	-	4/6/23/26	0/1/1/1
3	NAG	H	2	3	-	4/6/23/26	0/1/1/1
3	NAG	I	1	3,1	-	3/6/23/26	0/1/1/1
3	NAG	I	2	3	-	3/6/23/26	0/1/1/1

All (6) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	1	NAG	O5-C1	5.29	1.52	1.43
3	I	2	NAG	O5-C1	3.00	1.48	1.43
3	G	1	NAG	C1-C2	-2.78	1.48	1.52
3	G	1	NAG	O5-C1	2.72	1.48	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	2	NAG	C1-C2	2.25	1.55	1.52
3	E	1	NAG	O5-C1	-2.14	1.40	1.43

All (7) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	E	1	NAG	O5-C5-C6	3.61	112.87	107.20
3	E	1	NAG	C6-C5-C4	3.08	120.22	113.00
3	G	2	NAG	C1-O5-C5	2.71	115.87	112.19
3	E	1	NAG	O5-C5-C4	2.64	117.26	110.83
3	E	1	NAG	C2-N2-C7	2.26	126.12	122.90
3	G	1	NAG	C1-C2-N2	-2.21	106.72	110.49
3	I	2	NAG	C1-O5-C5	2.07	114.99	112.19

There are no chirality outliers.

All (29) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	E	1	NAG	O5-C5-C6-O6
3	H	2	NAG	C1-C2-N2-C7
3	F	1	NAG	O5-C5-C6-O6
3	H	1	NAG	O5-C5-C6-O6
3	H	2	NAG	O5-C5-C6-O6
3	F	1	NAG	C4-C5-C6-O6
3	H	2	NAG	C4-C5-C6-O6
3	H	1	NAG	C4-C5-C6-O6
3	E	1	NAG	C8-C7-N2-C2
3	E	1	NAG	O7-C7-N2-C2
3	F	1	NAG	C8-C7-N2-C2
3	F	1	NAG	O7-C7-N2-C2
3	G	2	NAG	C8-C7-N2-C2
3	G	2	NAG	O7-C7-N2-C2
3	H	1	NAG	C8-C7-N2-C2
3	H	1	NAG	O7-C7-N2-C2
3	G	1	NAG	C4-C5-C6-O6
3	E	1	NAG	C4-C5-C6-O6
3	G	1	NAG	O5-C5-C6-O6
3	I	1	NAG	O5-C5-C6-O6
3	I	1	NAG	C1-C2-N2-C7
3	I	2	NAG	C1-C2-N2-C7
3	I	2	NAG	O5-C5-C6-O6
3	E	1	NAG	C1-C2-N2-C7

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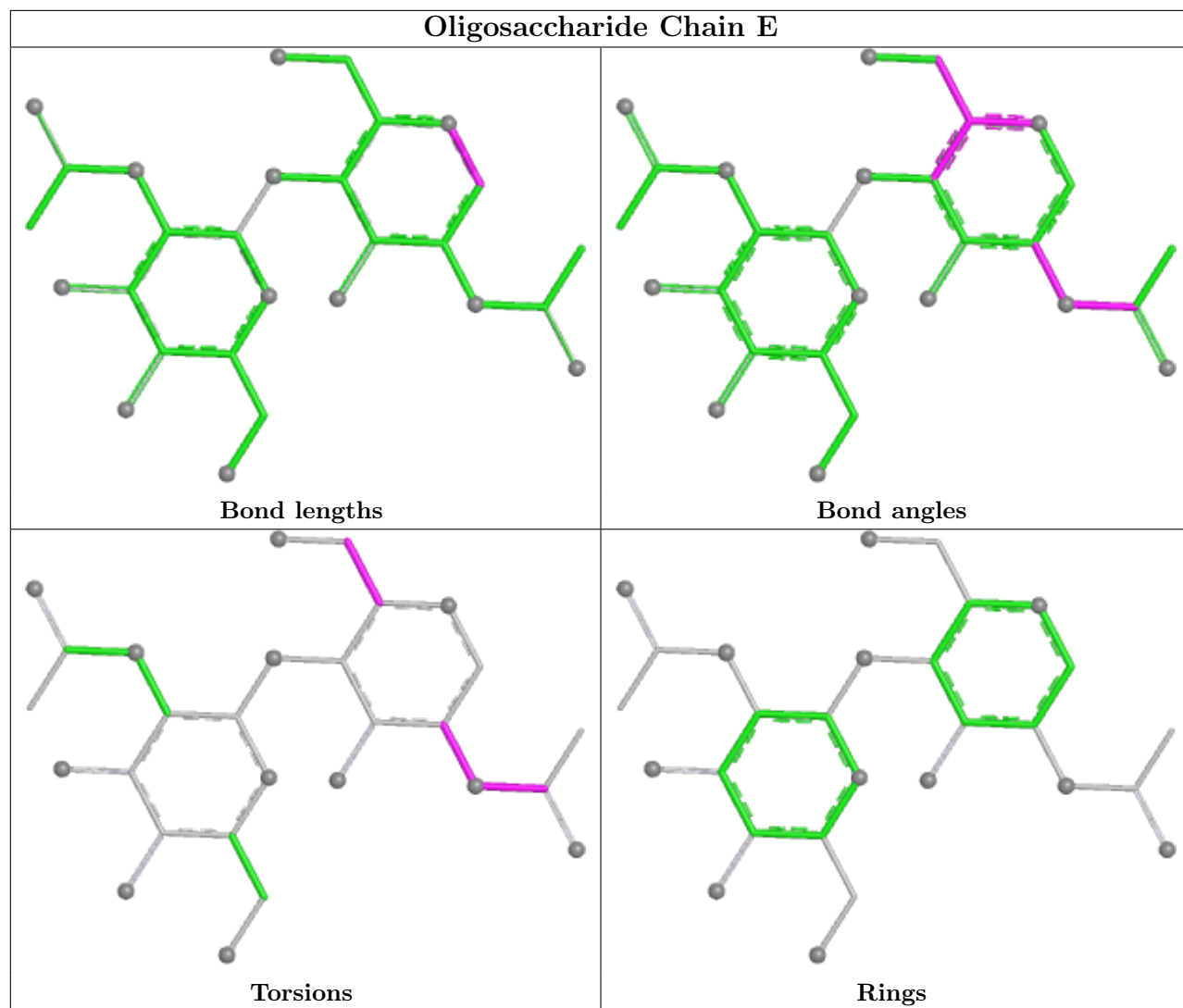
Mol	Chain	Res	Type	Atoms
3	G	1	NAG	C3-C2-N2-C7
3	H	2	NAG	C3-C2-N2-C7
3	E	1	NAG	C3-C2-N2-C7
3	I	1	NAG	C3-C2-N2-C7
3	I	2	NAG	C3-C2-N2-C7

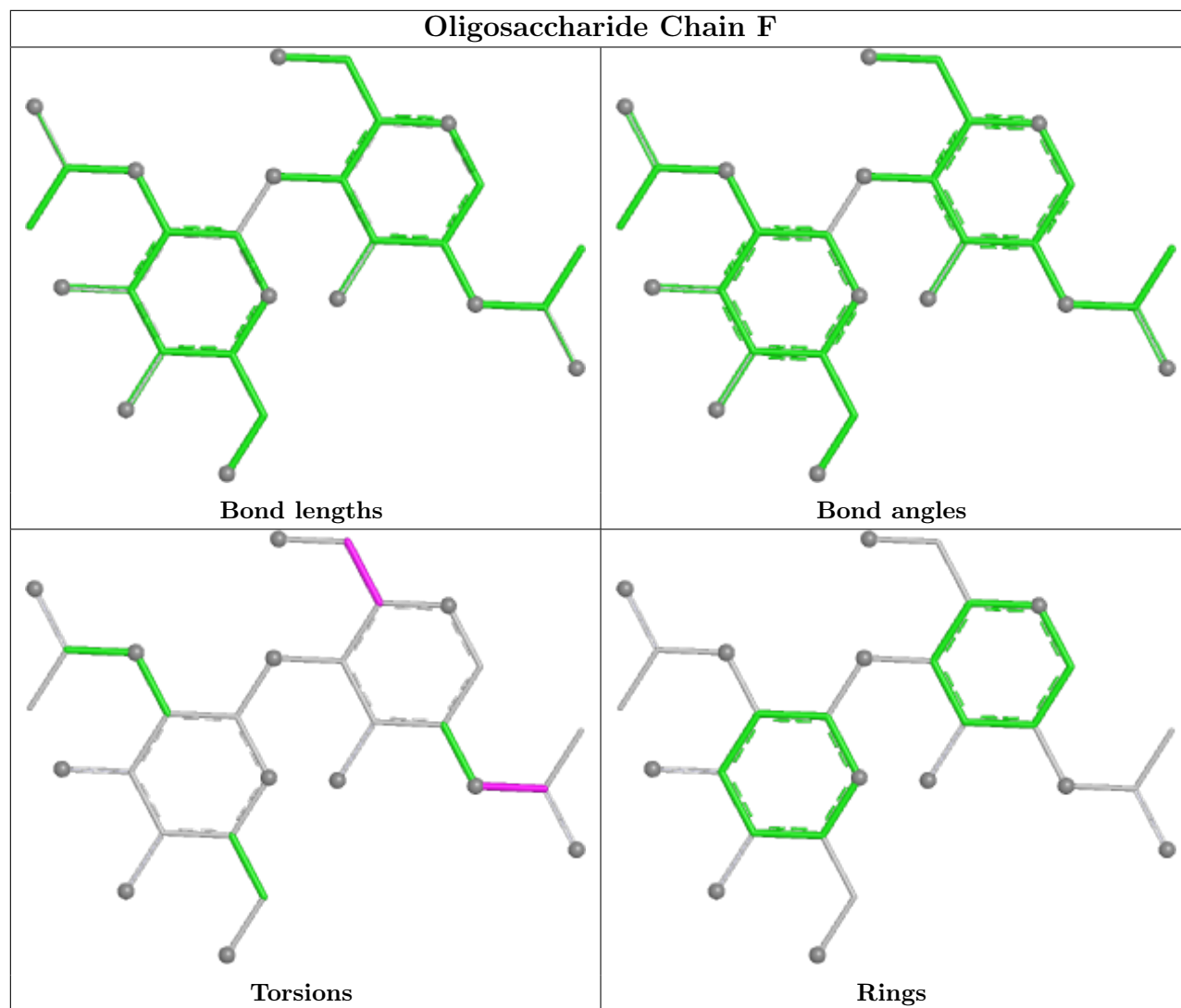
There are no ring outliers.

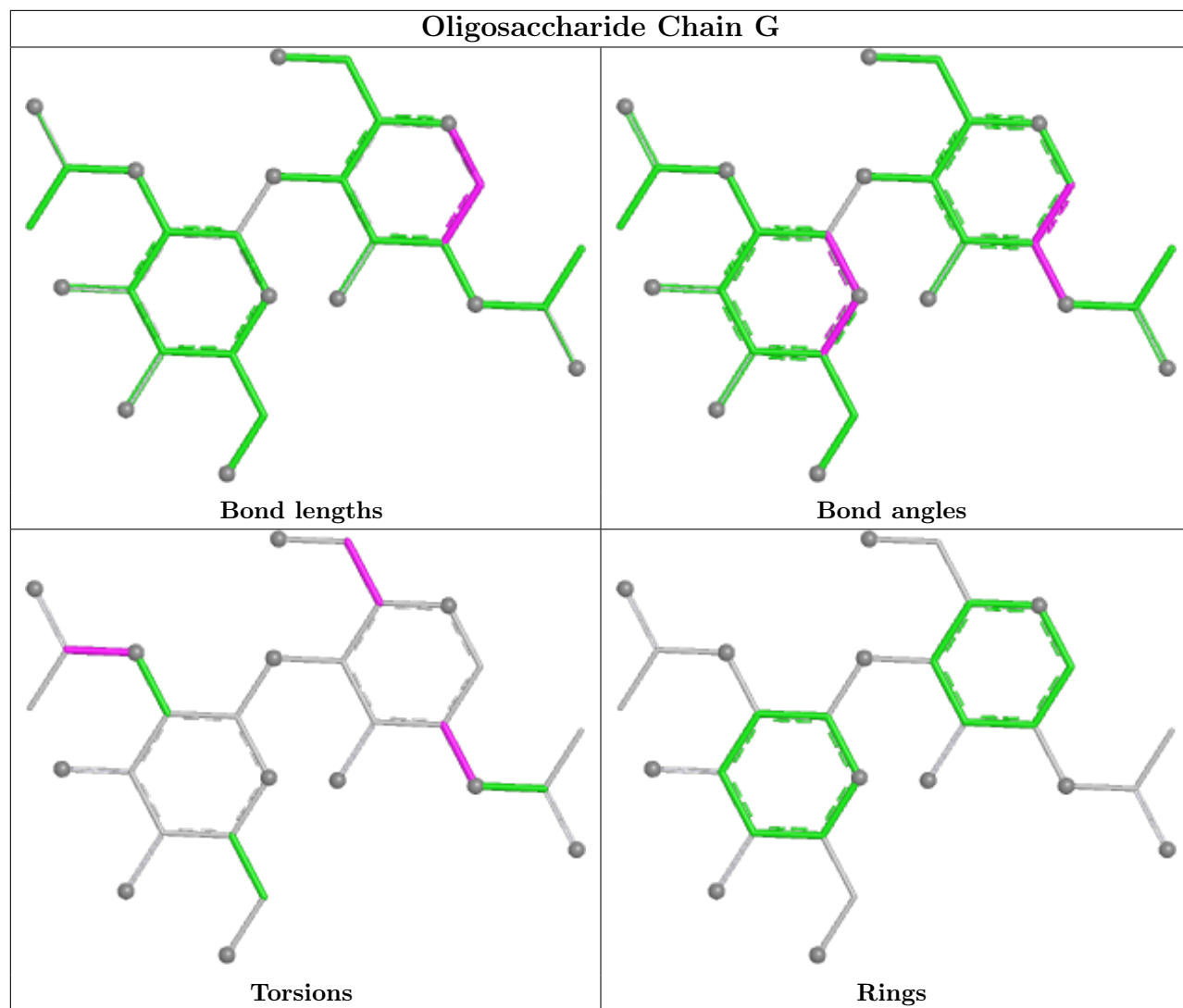
8 monomers are involved in 38 short contacts:

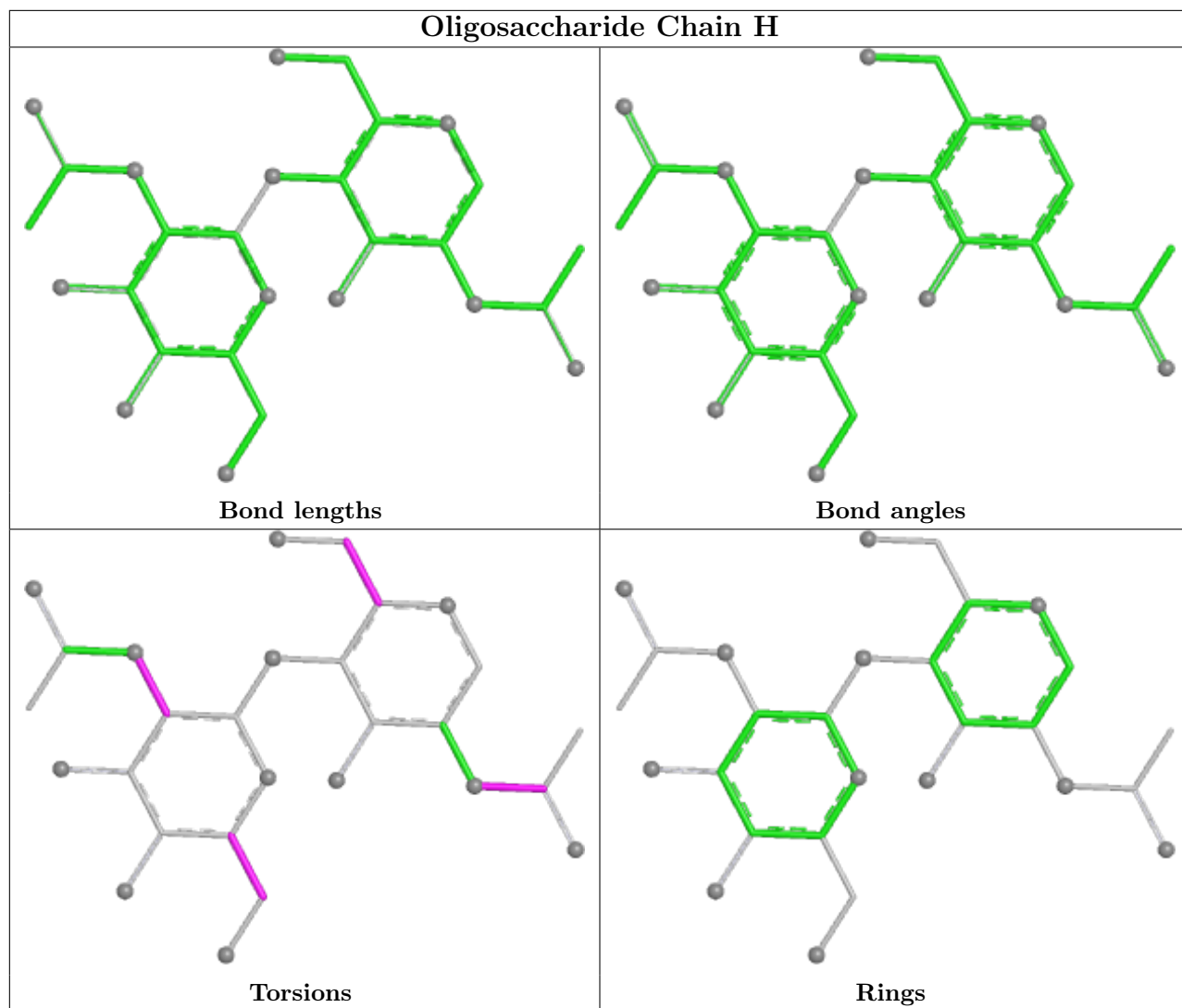
Mol	Chain	Res	Type	Clashes	Symm-Clashes
3	H	1	NAG	5	0
3	G	1	NAG	20	0
3	I	2	NAG	1	0
3	I	1	NAG	2	0
3	G	2	NAG	2	0
3	H	2	NAG	2	0
3	E	2	NAG	3	0
3	E	1	NAG	5	0

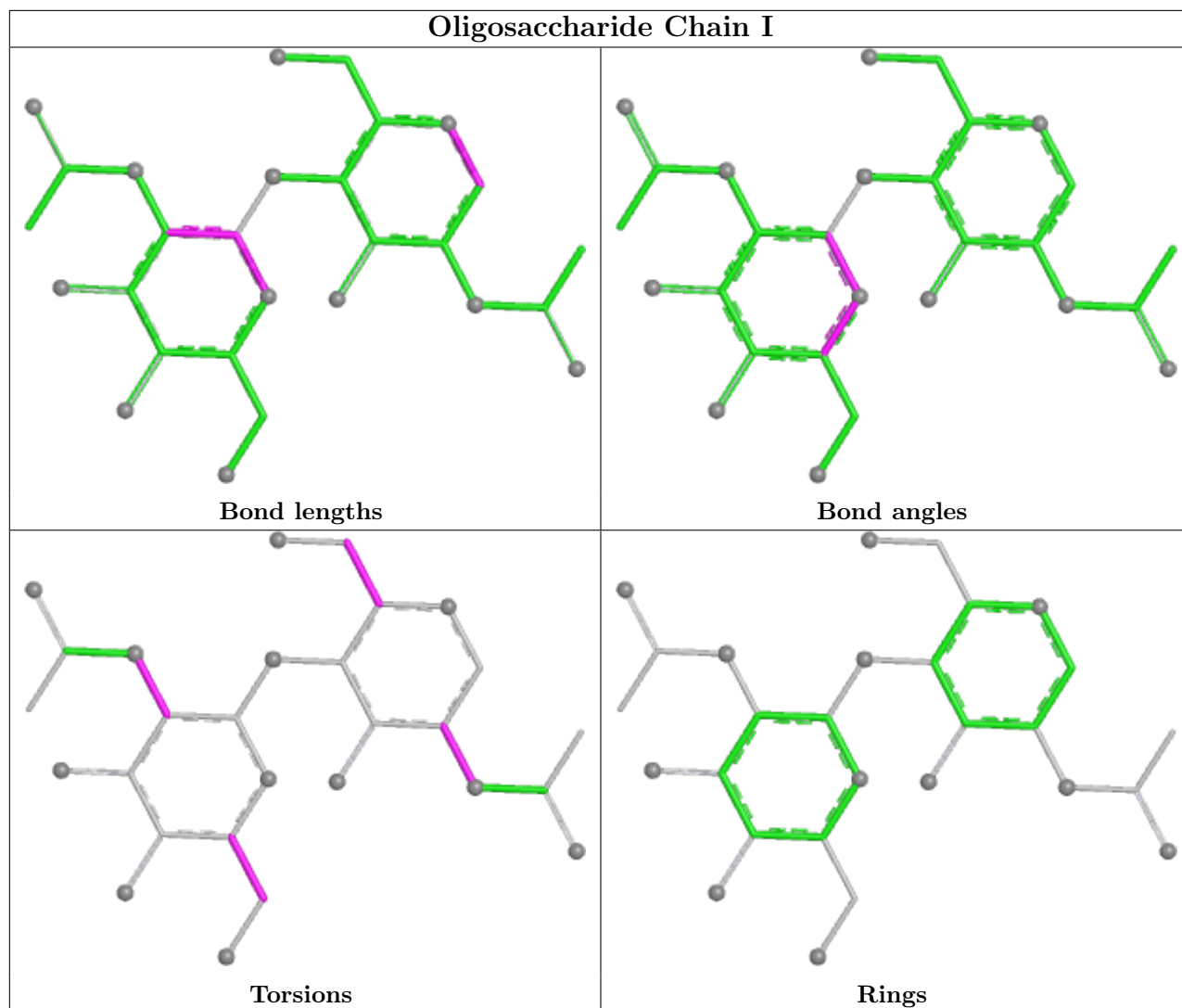
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for oligosaccharide.











5.6 Ligand geometry [i](#)

33 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	$\# Z > 2$
4	NAG	B	1312	1	14,14,15	1.59	2 (14%)	17,19,21	1.43	4 (23%)
4	NAG	A	1312	1	14,14,15	0.98	2 (14%)	17,19,21	1.10	1 (5%)
4	NAG	A	1303	1	14,14,15	0.40	0	17,19,21	0.51	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
4	NAG	B	1311	1	14,14,15	3.04	2 (14%)	17,19,21	1.77	1 (5%)
4	NAG	C	1306	1	14,14,15	2.67	2 (14%)	17,19,21	0.76	1 (5%)
4	NAG	A	1305	1	14,14,15	1.40	1 (7%)	17,19,21	0.74	0
4	NAG	B	1302	-	14,14,15	0.67	1 (7%)	17,19,21	1.10	1 (5%)
4	NAG	C	1305	1	14,14,15	0.32	0	17,19,21	0.51	0
4	NAG	C	1307	1	14,14,15	0.22	0	17,19,21	0.94	1 (5%)
4	NAG	B	1303	-	14,14,15	0.20	0	17,19,21	0.45	0
4	NAG	C	1304	1	14,14,15	1.90	2 (14%)	17,19,21	1.23	2 (11%)
4	NAG	B	1304	-	14,14,15	0.37	0	17,19,21	0.79	1 (5%)
4	NAG	B	1305	-	14,14,15	0.50	0	17,19,21	0.38	0
4	NAG	A	1311	-	14,14,15	0.22	0	17,19,21	0.40	0
4	NAG	A	1302	-	14,14,15	0.28	0	17,19,21	0.71	0
4	NAG	A	1306	-	14,14,15	0.64	0	17,19,21	0.51	0
4	NAG	C	1302	-	14,14,15	0.19	0	17,19,21	0.44	0
4	NAG	B	1306	-	14,14,15	0.29	0	17,19,21	0.41	0
4	NAG	A	1304	-	14,14,15	0.21	0	17,19,21	0.46	0
4	NAG	A	1307	1	14,14,15	0.17	0	17,19,21	0.53	0
4	NAG	A	1310	1	14,14,15	0.40	0	17,19,21	0.46	0
4	NAG	A	1309	1	14,14,15	0.35	0	17,19,21	0.34	0
4	NAG	B	1313	1	14,14,15	0.17	0	17,19,21	0.53	0
4	NAG	B	1309	1	14,14,15	0.40	0	17,19,21	0.53	0
4	NAG	C	1303	1	14,14,15	1.02	2 (14%)	17,19,21	0.86	0
4	NAG	A	1313	1	14,14,15	0.20	0	17,19,21	0.46	0
4	NAG	B	1307	1	14,14,15	0.39	0	17,19,21	1.02	2 (11%)
4	NAG	A	1308	-	14,14,15	0.21	0	17,19,21	0.41	0
4	NAG	B	1310	1	14,14,15	0.18	0	17,19,21	0.48	0
4	NAG	B	1308	1	14,14,15	0.54	0	17,19,21	0.69	1 (5%)
4	NAG	A	1301	-	14,14,15	0.38	0	17,19,21	0.42	0
4	NAG	B	1301	1	14,14,15	1.01	1 (7%)	17,19,21	1.98	3 (17%)
4	NAG	C	1301	1	14,14,15	3.64	2 (14%)	17,19,21	2.18	3 (17%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	B	1312	1	-	1/6/23/26	0/1/1/1
4	NAG	A	1312	1	-	2/6/23/26	0/1/1/1

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
4	NAG	A	1303	1	-	3/6/23/26	0/1/1/1
4	NAG	C	1306	1	1/1/6/7	4/6/23/26	0/1/1/1
4	NAG	B	1311	1	-	3/6/23/26	0/1/1/1
4	NAG	A	1305	1	-	0/6/23/26	0/1/1/1
4	NAG	B	1302	-	-	2/6/23/26	0/1/1/1
4	NAG	C	1305	1	-	2/6/23/26	0/1/1/1
4	NAG	C	1307	1	-	2/6/23/26	0/1/1/1
4	NAG	B	1303	-	-	4/6/23/26	0/1/1/1
4	NAG	C	1304	1	-	0/6/23/26	0/1/1/1
4	NAG	B	1304	-	-	5/6/23/26	0/1/1/1
4	NAG	B	1305	-	-	2/6/23/26	0/1/1/1
4	NAG	A	1311	-	-	4/6/23/26	0/1/1/1
4	NAG	A	1302	-	-	2/6/23/26	0/1/1/1
4	NAG	A	1306	-	-	1/6/23/26	0/1/1/1
4	NAG	C	1302	-	-	0/6/23/26	0/1/1/1
4	NAG	B	1306	-	-	4/6/23/26	0/1/1/1
4	NAG	A	1304	-	-	1/6/23/26	0/1/1/1
4	NAG	A	1307	1	-	2/6/23/26	0/1/1/1
4	NAG	A	1310	1	-	2/6/23/26	0/1/1/1
4	NAG	A	1309	1	-	2/6/23/26	0/1/1/1
4	NAG	B	1313	1	-	2/6/23/26	0/1/1/1
4	NAG	B	1309	1	-	2/6/23/26	0/1/1/1
4	NAG	C	1303	1	1/1/6/7	4/6/23/26	0/1/1/1
4	NAG	A	1313	1	-	1/6/23/26	0/1/1/1
4	NAG	B	1307	1	-	1/6/23/26	0/1/1/1
4	NAG	A	1308	-	-	0/6/23/26	0/1/1/1
4	NAG	B	1310	1	-	3/6/23/26	0/1/1/1
4	NAG	B	1308	1	-	4/6/23/26	0/1/1/1
4	NAG	A	1301	-	-	2/6/23/26	0/1/1/1
4	NAG	B	1301	1	-	2/6/23/26	0/1/1/1
4	NAG	C	1301	1	-	3/6/23/26	0/1/1/1

All (17) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	C	1301	NAG	C1-C2	12.37	1.70	1.52
4	C	1306	NAG	O5-C1	-9.30	1.28	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	B	1311	NAG	O5-C1	8.84	1.57	1.43
4	B	1311	NAG	C1-C2	-7.01	1.41	1.52
4	C	1304	NAG	O5-C1	-6.71	1.33	1.43
4	C	1301	NAG	O5-C1	-5.45	1.35	1.43
4	A	1305	NAG	C1-C2	5.04	1.59	1.52
4	B	1312	NAG	C1-C2	4.91	1.59	1.52
4	C	1306	NAG	C1-C2	-3.56	1.47	1.52
4	B	1301	NAG	C1-C2	-2.88	1.48	1.52
4	B	1312	NAG	O5-C1	2.57	1.47	1.43
4	C	1303	NAG	O5-C1	2.53	1.47	1.43
4	A	1312	NAG	C1-C2	-2.19	1.49	1.52
4	A	1312	NAG	C4-C5	-2.18	1.48	1.53
4	B	1302	NAG	O5-C1	-2.17	1.40	1.43
4	C	1304	NAG	C1-C2	-2.11	1.49	1.52
4	C	1303	NAG	C1-C2	2.08	1.55	1.52

All (21) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
4	C	1301	NAG	C1-O5-C5	7.37	122.17	112.19
4	B	1301	NAG	C1-O5-C5	6.64	121.19	112.19
4	B	1311	NAG	C1-O5-C5	6.39	120.85	112.19
4	C	1304	NAG	C1-O5-C5	-3.97	106.81	112.19
4	C	1301	NAG	C1-C2-N2	3.57	116.58	110.49
4	C	1307	NAG	C1-O5-C5	3.54	116.99	112.19
4	B	1302	NAG	O4-C4-C5	-3.39	100.89	109.30
4	A	1312	NAG	C1-O5-C5	2.85	116.06	112.19
4	B	1312	NAG	C1-C2-N2	-2.84	105.64	110.49
4	B	1312	NAG	C3-C4-C5	-2.82	105.20	110.24
4	B	1301	NAG	C4-C3-C2	-2.76	106.97	111.02
4	C	1301	NAG	O5-C5-C6	-2.70	102.97	107.20
4	C	1306	NAG	C1-O5-C5	-2.49	108.82	112.19
4	B	1312	NAG	O5-C5-C4	-2.47	104.82	110.83
4	B	1312	NAG	C4-C3-C2	2.23	114.28	111.02
4	B	1307	NAG	C1-O5-C5	2.18	115.14	112.19
4	B	1304	NAG	C2-N2-C7	2.17	126.00	122.90
4	C	1304	NAG	C3-C4-C5	2.15	114.08	110.24
4	B	1307	NAG	C1-C2-N2	2.12	114.10	110.49
4	B	1301	NAG	O5-C5-C4	2.04	115.80	110.83
4	B	1308	NAG	C1-O5-C5	2.00	114.90	112.19

All (2) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
4	C	1303	NAG	C1
4	C	1306	NAG	C1

All (72) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
4	B	1306	NAG	C3-C2-N2-C7
4	B	1301	NAG	C4-C5-C6-O6
4	C	1305	NAG	O5-C5-C6-O6
4	A	1312	NAG	C4-C5-C6-O6
4	A	1312	NAG	O5-C5-C6-O6
4	A	1307	NAG	C4-C5-C6-O6
4	B	1309	NAG	O5-C5-C6-O6
4	A	1303	NAG	C4-C5-C6-O6
4	A	1309	NAG	O5-C5-C6-O6
4	B	1304	NAG	O5-C5-C6-O6
4	C	1303	NAG	O5-C5-C6-O6
4	A	1303	NAG	O5-C5-C6-O6
4	A	1310	NAG	O5-C5-C6-O6
4	B	1310	NAG	O5-C5-C6-O6
4	B	1301	NAG	O5-C5-C6-O6
4	B	1309	NAG	C4-C5-C6-O6
4	B	1310	NAG	C4-C5-C6-O6
4	A	1307	NAG	O5-C5-C6-O6
4	A	1309	NAG	C4-C5-C6-O6
4	C	1306	NAG	O5-C5-C6-O6
4	A	1311	NAG	O5-C5-C6-O6
4	B	1302	NAG	O5-C5-C6-O6
4	C	1305	NAG	C4-C5-C6-O6
4	A	1311	NAG	C4-C5-C6-O6
4	B	1305	NAG	O5-C5-C6-O6
4	B	1302	NAG	C4-C5-C6-O6
4	A	1302	NAG	C8-C7-N2-C2
4	A	1302	NAG	O7-C7-N2-C2
4	B	1303	NAG	C8-C7-N2-C2
4	B	1303	NAG	O7-C7-N2-C2
4	B	1304	NAG	C8-C7-N2-C2
4	B	1304	NAG	O7-C7-N2-C2
4	B	1308	NAG	C8-C7-N2-C2
4	B	1308	NAG	O7-C7-N2-C2
4	C	1306	NAG	C8-C7-N2-C2
4	C	1306	NAG	O7-C7-N2-C2
4	B	1303	NAG	O5-C5-C6-O6

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Mol	Chain	Res	Type	Atoms
4	C	1303	NAG	C4-C5-C6-O6
4	B	1306	NAG	O5-C5-C6-O6
4	C	1307	NAG	O5-C5-C6-O6
4	B	1308	NAG	C4-C5-C6-O6
4	B	1313	NAG	O5-C5-C6-O6
4	C	1306	NAG	C4-C5-C6-O6
4	B	1305	NAG	C4-C5-C6-O6
4	B	1306	NAG	C4-C5-C6-O6
4	B	1313	NAG	C4-C5-C6-O6
4	B	1304	NAG	C4-C5-C6-O6
4	C	1307	NAG	C4-C5-C6-O6
4	C	1301	NAG	C4-C5-C6-O6
4	C	1301	NAG	O5-C5-C6-O6
4	B	1303	NAG	C4-C5-C6-O6
4	B	1308	NAG	O5-C5-C6-O6
4	B	1304	NAG	C1-C2-N2-C7
4	B	1311	NAG	C1-C2-N2-C7
4	B	1312	NAG	C1-C2-N2-C7
4	B	1311	NAG	O5-C5-C6-O6
4	B	1307	NAG	C1-C2-N2-C7
4	B	1310	NAG	C1-C2-N2-C7
4	A	1313	NAG	O5-C5-C6-O6
4	A	1306	NAG	O5-C5-C6-O6
4	A	1301	NAG	C1-C2-N2-C7
4	B	1306	NAG	C1-C2-N2-C7
4	C	1303	NAG	C3-C2-N2-C7
4	A	1310	NAG	C4-C5-C6-O6
4	C	1303	NAG	C1-C2-N2-C7
4	C	1301	NAG	C1-C2-N2-C7
4	A	1304	NAG	C3-C2-N2-C7
4	B	1311	NAG	C3-C2-N2-C7
4	A	1311	NAG	C1-C2-N2-C7
4	A	1301	NAG	C3-C2-N2-C7
4	A	1311	NAG	C3-C2-N2-C7
4	A	1303	NAG	C1-C2-N2-C7

There are no ring outliers.

17 monomers are involved in 64 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	B	1312	NAG	4	0
4	A	1312	NAG	9	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
4	A	1303	NAG	3	0
4	B	1311	NAG	2	0
4	B	1302	NAG	13	0
4	C	1305	NAG	3	0
4	C	1304	NAG	1	0
4	B	1304	NAG	6	0
4	B	1305	NAG	4	0
4	A	1311	NAG	1	0
4	A	1302	NAG	2	0
4	A	1306	NAG	4	0
4	B	1306	NAG	2	0
4	A	1304	NAG	3	0
4	B	1307	NAG	2	0
4	B	1308	NAG	1	0
4	B	1301	NAG	4	0

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	C	1
1	A	1
1	B	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	C	528:LYS	C	529:LYS	N	6.70
1	A	527:PRO	C	528:LYS	N	4.58
1	B	481:ASN	C	482:GLY	N	3.18

6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-14315. These allow visual inspection of the internal detail of the map and identification of artifacts.

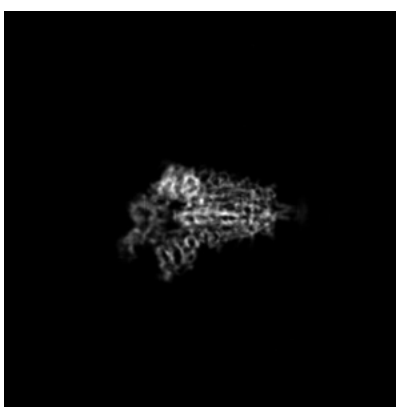
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections [i](#)

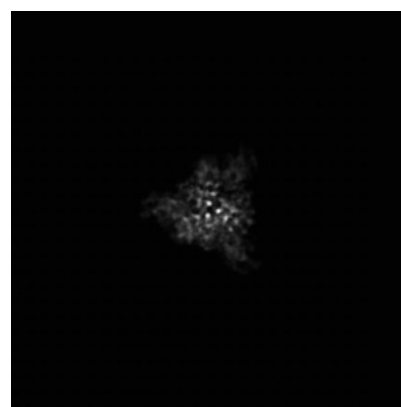
6.1.1 Primary map



X



Y



Z

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

6.2 Central slices [i](#)

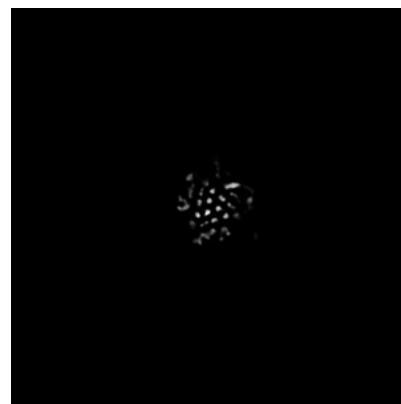
6.2.1 Primary map



X Index: 246



Y Index: 246



Z Index: 246

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: 241



Y Index: 238



Z Index: 224

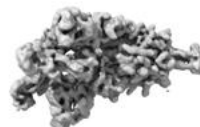
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views [i](#)

6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.02. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

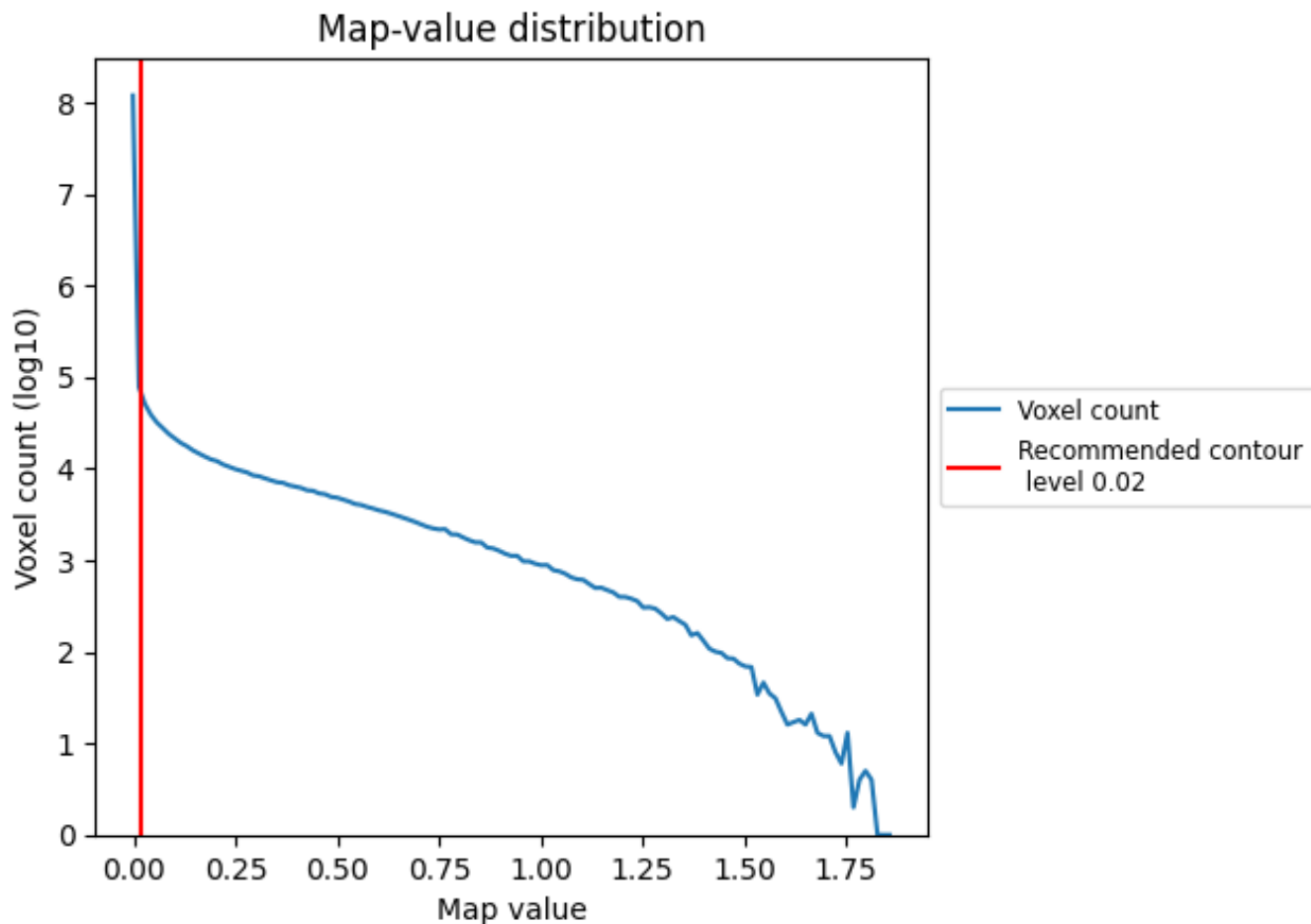
6.5 Mask visualisation

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

7 Map analysis [i](#)

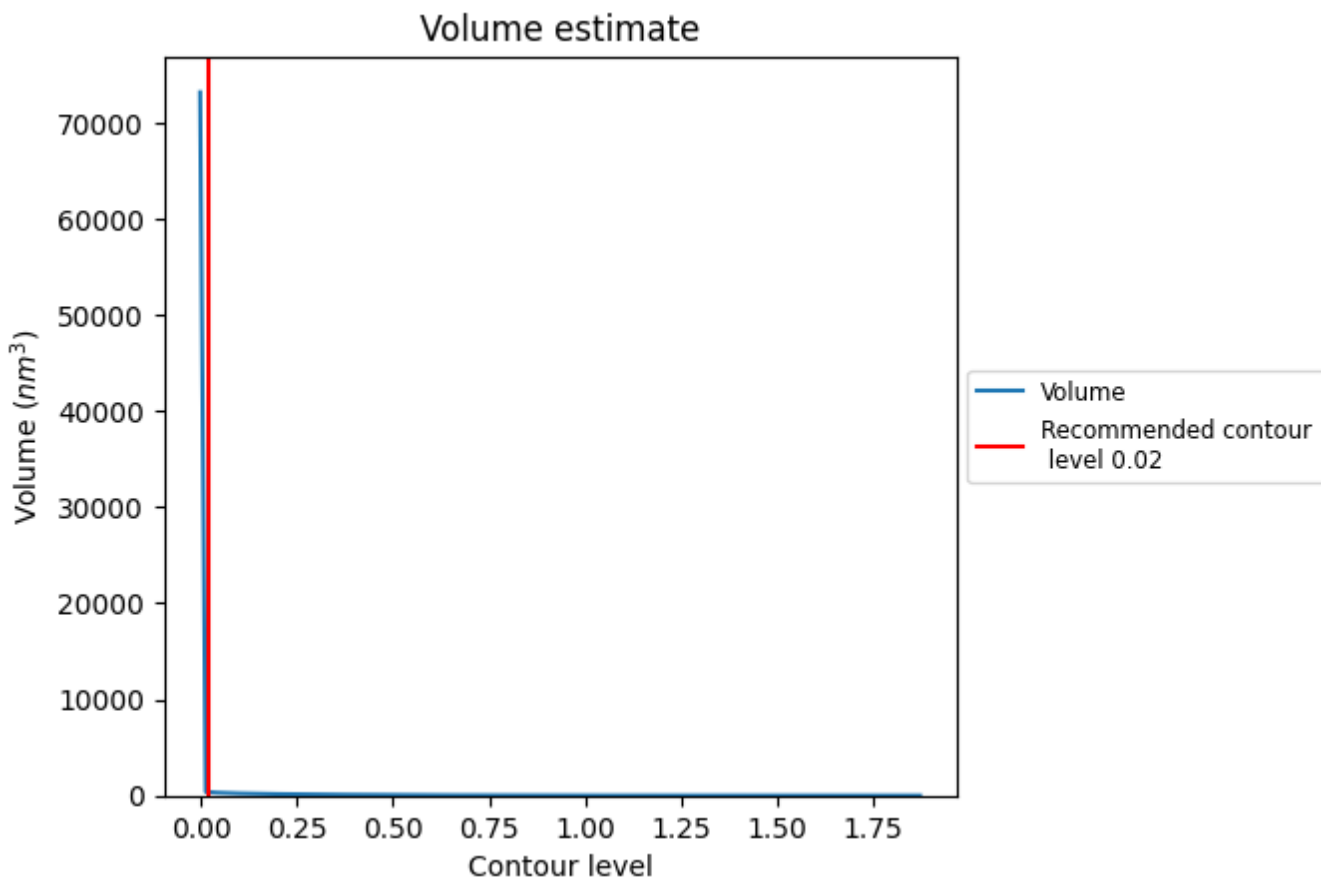
This section contains the results of statistical analysis of the map.

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.

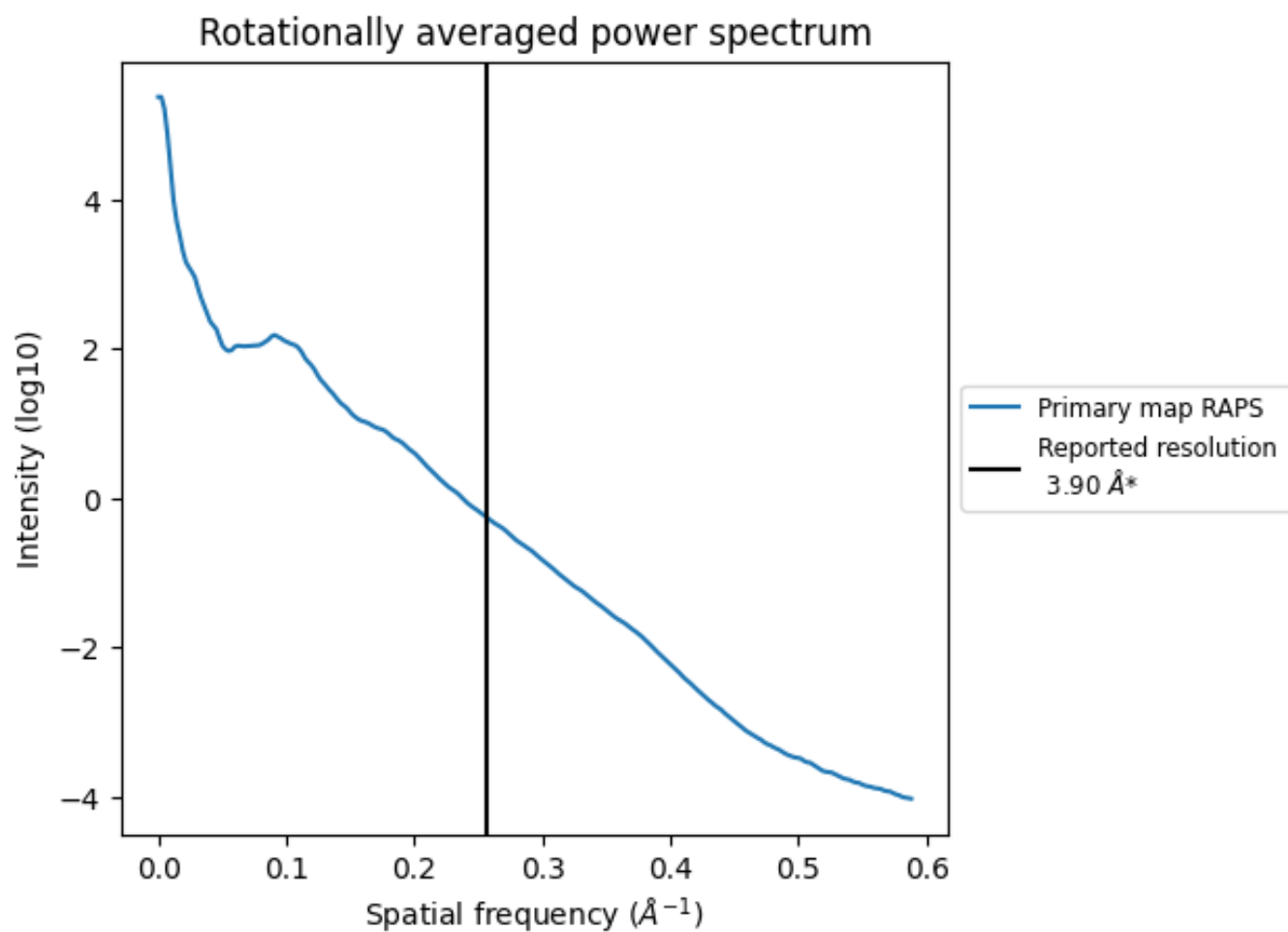
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 355 nm^3 ; this corresponds to an approximate mass of 321 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](#)

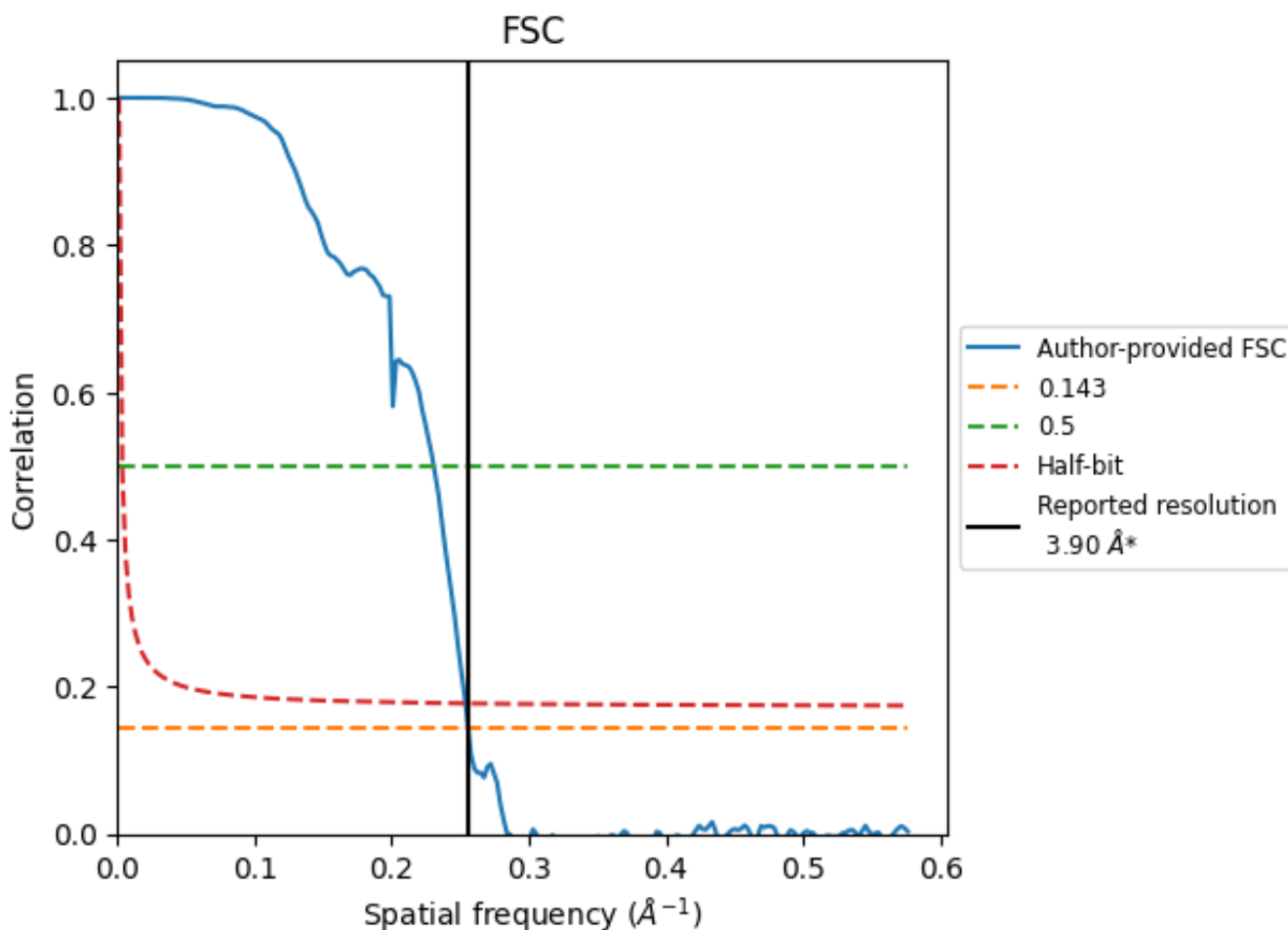


*Reported resolution corresponds to spatial frequency of 0.256 Å⁻¹

8 Fourier-Shell correlation [\(i\)](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [\(i\)](#)



*Reported resolution corresponds to spatial frequency of 0.256 Å⁻¹

8.2 Resolution estimates [i](#)

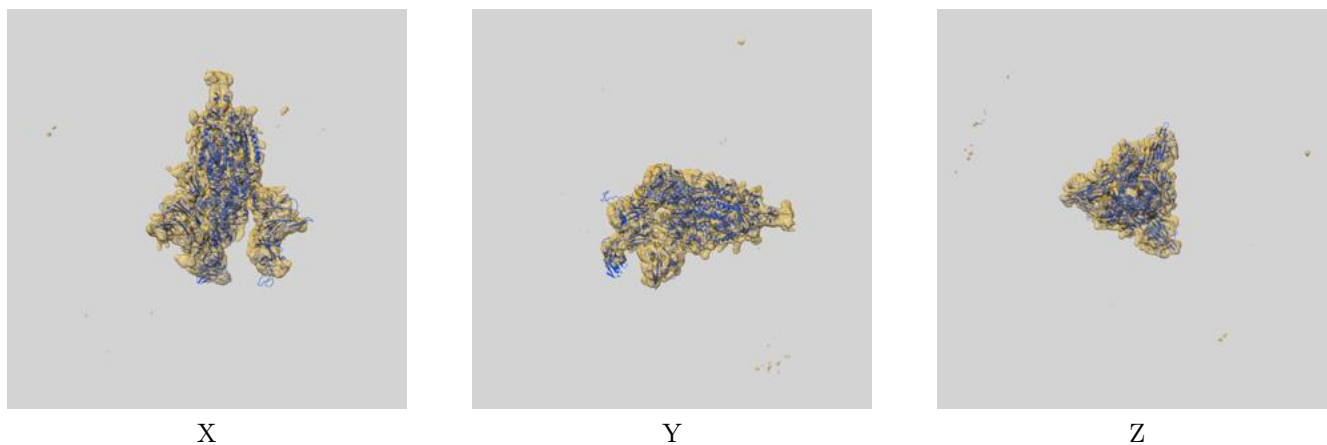
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	3.90	-	-
Author-provided FSC curve	3.91	4.33	3.94
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

9 Map-model fit [i](#)

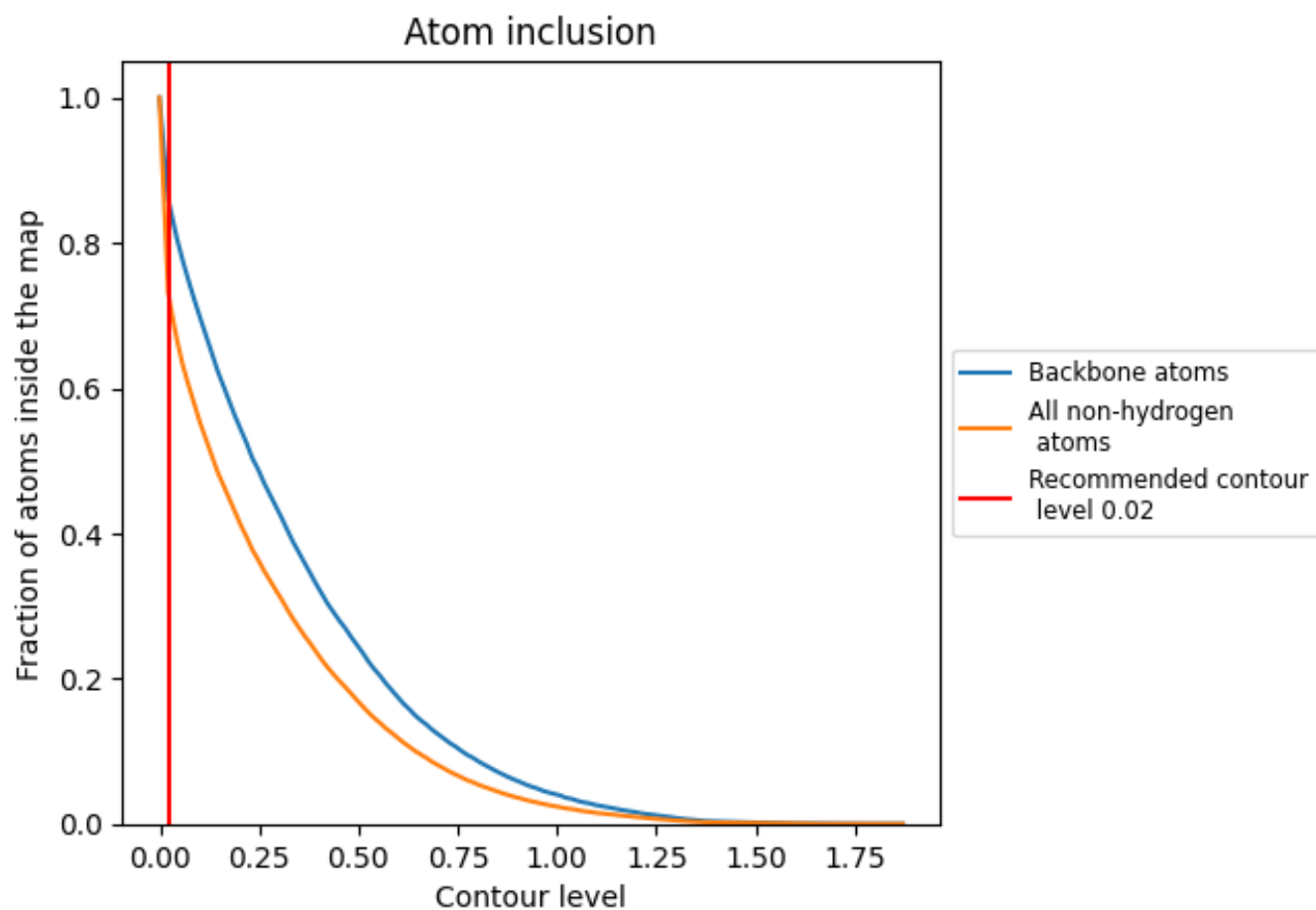
This section contains information regarding the fit between EMDB map EMD-14315 and PDB model 7R4R. Per-residue inclusion information can be found in section 3 on page 12.

9.1 Map-model overlay [i](#)



The images above show the 3D surface view of the map at the recommended contour level 0.02 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 Atom inclusion [i](#)



At the recommended contour level, 86% of all backbone atoms, 73% of all non-hydrogen atoms, are inside the map.