Full wwPDB X-ray Structure Validation Report ⓘ

Oct 10, 2021 – 06:12 PM EDT

PDB ID	:	3G5U
Title	:	Structure of P-glycoprotein Reveals a Molecular Basis for Poly-Specific Drug Binding
Authors	:	Aller, S.G.; Yu, J.; Ward, A.; Weng, Y.; Chittaboina, S.; Zhuo, R.; Harrell, P.M.; Trinh, Y.T.; Zhang, Q.; Urbatsch, I.L.; Chang, G.
Deposited on	:	2009-02-05
Resolution	:	3.80 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the ⓘ symbol.

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

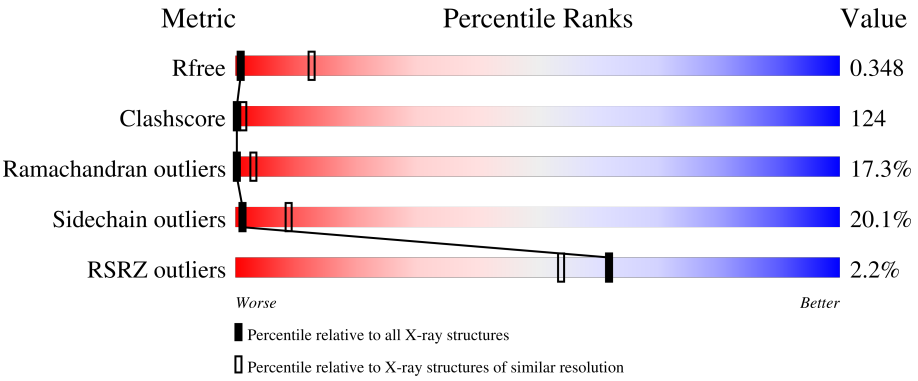
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.23.2
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.23.2

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 3.80 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1212 (4.00-3.60)
Clashscore	141614	1288 (4.00-3.60)
Ramachandran outliers	138981	1243 (4.00-3.60)
Sidechain outliers	138945	1237 (4.00-3.60)
RSRZ outliers	127900	1121 (4.00-3.60)

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

Mol	Chain	Length	Quality of chain
1	A	1284	2% 11% 53% 24% 8%
1	B	1284	2% 11% 55% 23% 8%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 18352 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Multidrug resistance protein 1a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1182	Total	C	N	O	S	0	0	0
			9170	5895	1552	1686	37			
1	B	1182	Total	C	N	O	S	0	0	0
			9170	5895	1552	1686	37			

There are 18 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	952	ALA	CYS	engineered mutation	UNP Q5I1Y5
A	1277	TYR	-	expression tag	UNP Q5I1Y5
A	1278	VAL	-	expression tag	UNP Q5I1Y5
A	1279	HIS	-	expression tag	UNP Q5I1Y5
A	1280	HIS	-	expression tag	UNP Q5I1Y5
A	1281	HIS	-	expression tag	UNP Q5I1Y5
A	1282	HIS	-	expression tag	UNP Q5I1Y5
A	1283	HIS	-	expression tag	UNP Q5I1Y5
A	1284	HIS	-	expression tag	UNP Q5I1Y5
B	952	ALA	CYS	engineered mutation	UNP Q5I1Y5
B	1277	TYR	-	expression tag	UNP Q5I1Y5
B	1278	VAL	-	expression tag	UNP Q5I1Y5
B	1279	HIS	-	expression tag	UNP Q5I1Y5
B	1280	HIS	-	expression tag	UNP Q5I1Y5
B	1281	HIS	-	expression tag	UNP Q5I1Y5
B	1282	HIS	-	expression tag	UNP Q5I1Y5
B	1283	HIS	-	expression tag	UNP Q5I1Y5
B	1284	HIS	-	expression tag	UNP Q5I1Y5

- Molecule 2 is MERCURY (II) ION (three-letter code: HG) (formula: Hg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
2	A	6	Total	Hg	0	0
			6	6		

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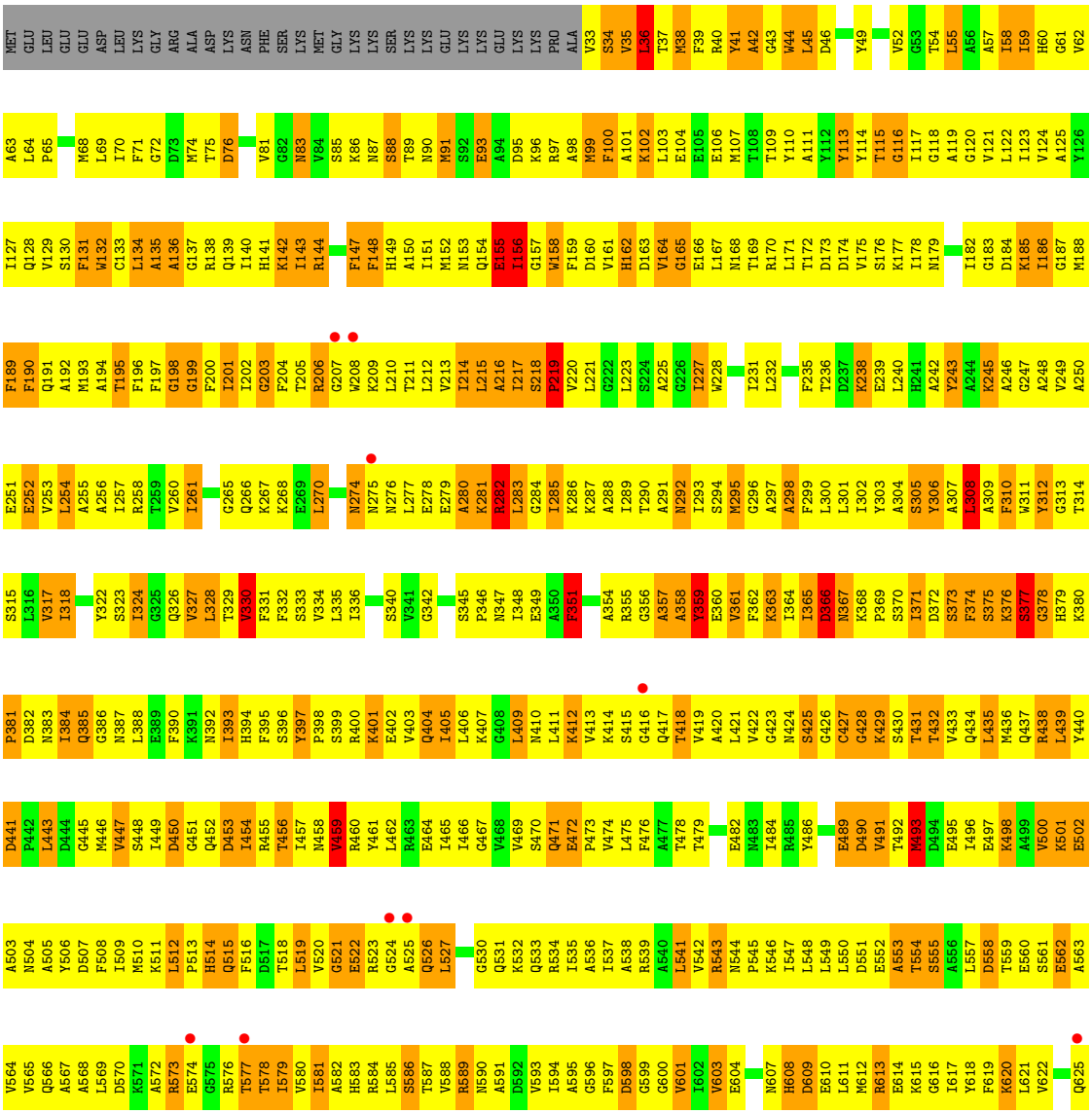
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
			Total	Hg		
2	B	6	6	6	0	0

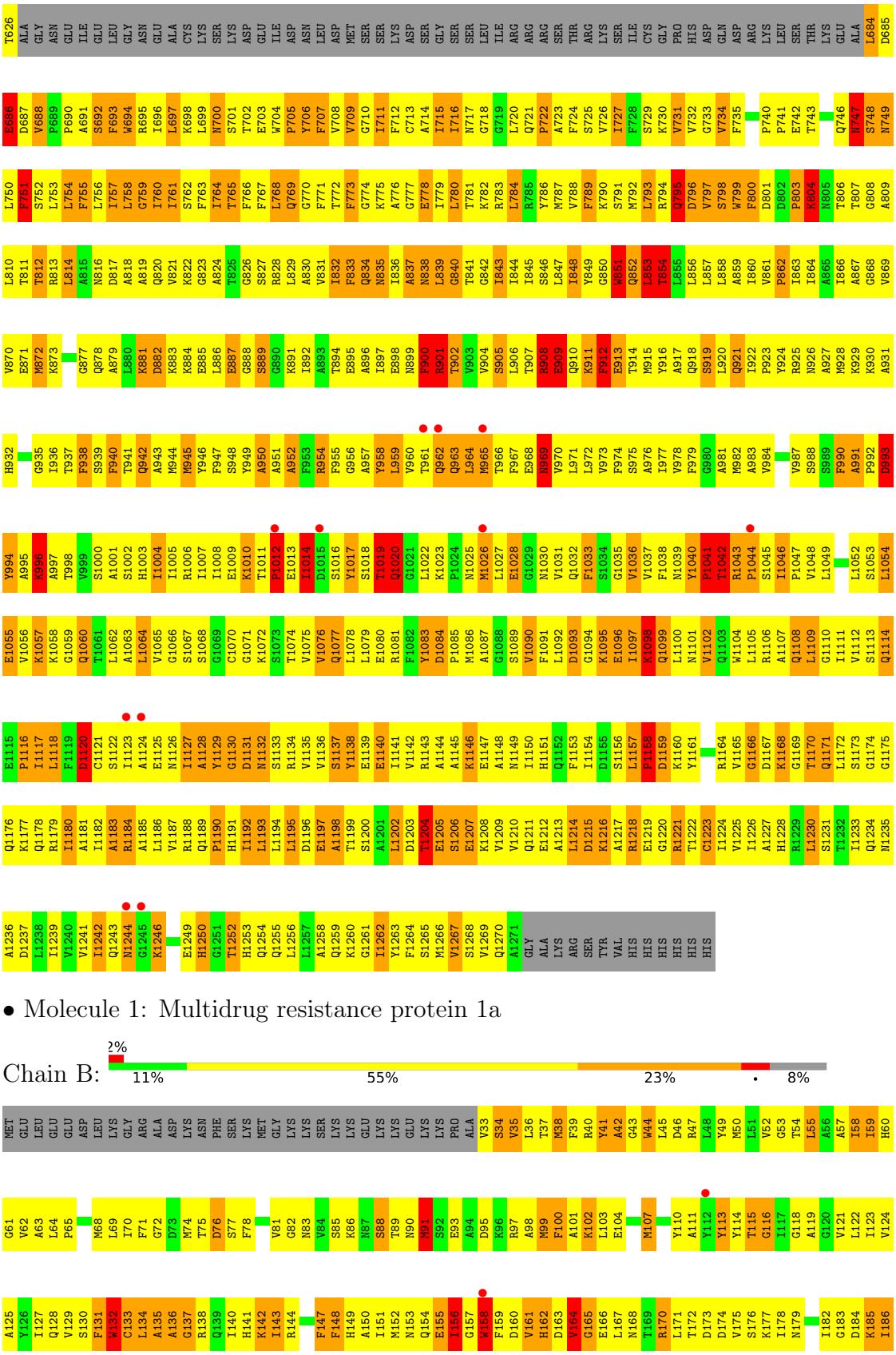
3 Residue-property plots (i)

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

- Molecule 1: Multidrug resistance protein 1a

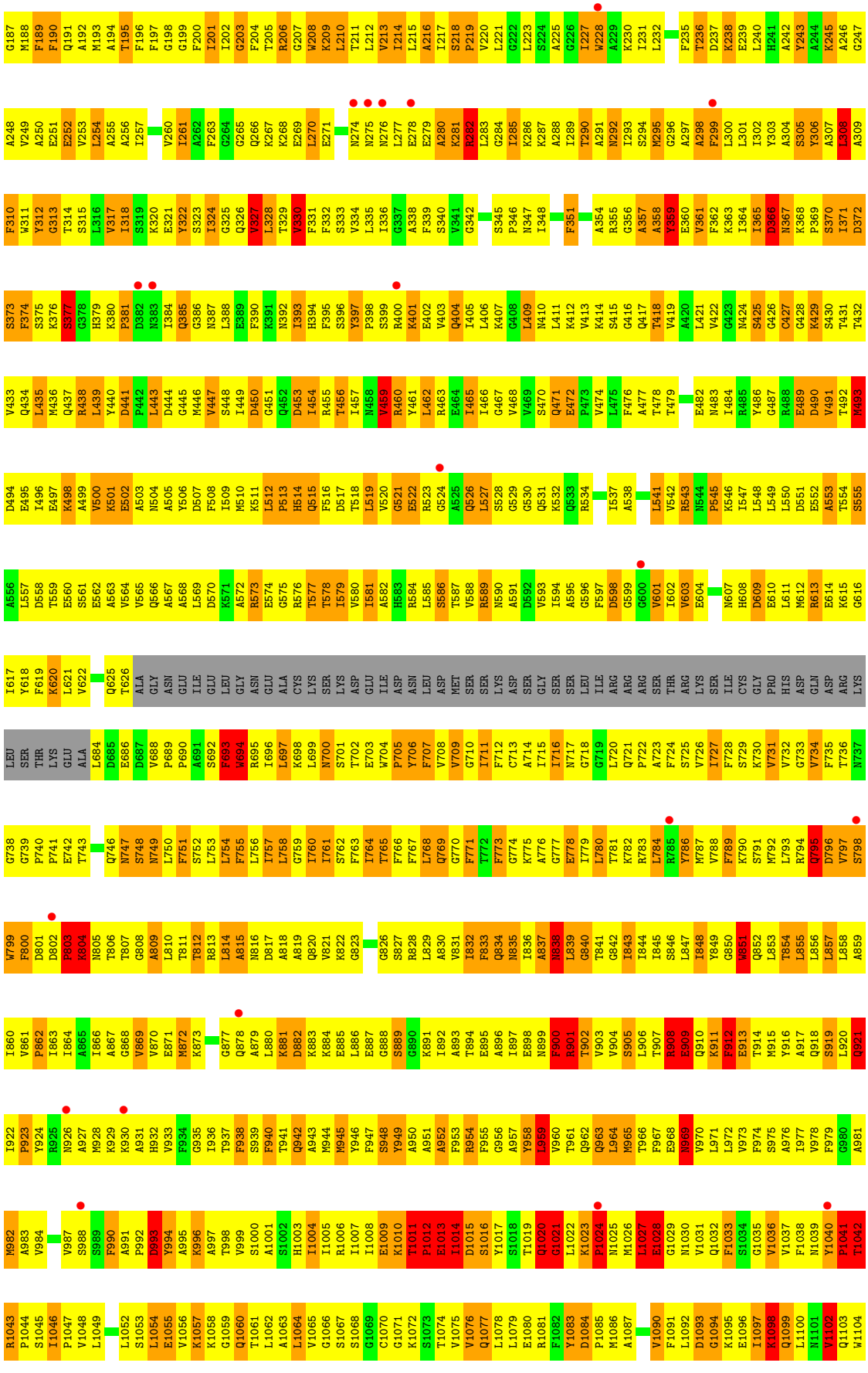
Chain A:

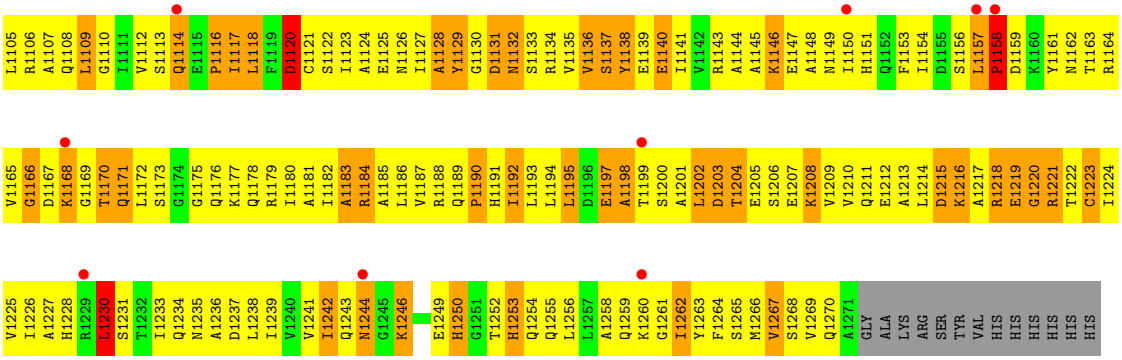




• Molecule 1: Multidrug resistance protein 1a

Chain B:




L1105 R1106 A1107 Q1108 L1109 G1110 I1111 V1112 S1113 Q1114 E1115 P1116 I1117 L1118 F1119 D1120 C1121 S1122 I1123 A1124 E1125 N1126 I1127 A1128 Y1129 G1130 D1131 N1132 S1133 R1134 V1135 V1136 S1137 Y1138 E1139 E1140 I1141 V1142 R1143 A1144 A1145 K1146 E1147 A1148 N1149 I1150 H1151 Q1152 F1153 I1154 D1155 S1156 L1157 P1158 D1159 K1160 Y1161 N1162 T1163 R1164
V1165 G1166 D1167 K1168 G1169 T1170 Q1171 L1172 S1173 G1174 G1175 Q1176 K1177 Q1178 R1179 I1180 A1181 I1182 A1183 R1184 A1185 L1186 V1187 R1188 Q1189 P1190 H1191 I1192 L1193 L1194 L1195 D1196 E1197 A1198 T1199 S1200 A1201 L1202 D1203 T1204 E1205 S1206 E1207 K1208 V1209 V1210 Q1211 E1212 A1213 L1214 D1215 K1216 A1217 R1218 E1219 G1220 R1221 T1222 C1223 I1224
V1225 I1226 A1227 H1228 R1229 L1230 S1231 T1232 I1233 Q1234 N1235 A1236 D1237 L1238 I1239 V1240 V1241 I1242 Q1243 N1244 G1245 K1246 E1249 H1250 G1251 T1252 H1253 Q1254 Q1255 L1256 L1257 A1258 Q1259 K1260 G1261 I1262 Y1263 F1264 S1265 M1266 V1267 S1268 V1269 Q1270 A1271 GLY ALA LYS ARG SER TYR VAL HIS HIS HIS HIS HIS HIS

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	97.54Å 115.43Å 378.86Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.98 – 3.80 42.33 – 3.79	Depositor EDS
% Data completeness (in resolution range)	96.1 (19.98-3.80) 95.5 (42.33-3.79)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) >$ [1]	4.19 (at 3.76Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.306 , 0.347 0.309 , 0.348	Depositor DCC
R_{free} test set	4245 reflections (10.21%)	wwPDB-VP
Wilson B-factor (Å^2)	132.2	Xtriage
Anisotropy	0.330	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.20 , 113.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.49$, $< L^2 > = 0.33$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.86	EDS
Total number of atoms	18352	wwPDB-VP
Average B, all atoms (Å^2)	136.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.39% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	A	0.54	1/9338 (0.0%)	0.88	22/12625 (0.2%)
1	B	0.51	0/9338	0.86	25/12625 (0.2%)
All	All	0.53	1/18676 (0.0%)	0.87	47/25250 (0.2%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	600	GLY	CA-C	6.60	1.62	1.51

All (47) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	165	GLY	N-CA-C	-9.98	88.15	113.10
1	A	1097	ILE	N-CA-C	-8.94	86.87	111.00
1	A	994	TYR	N-CA-C	-8.30	88.59	111.00
1	A	1098	LYS	N-CA-C	-8.12	89.09	111.00
1	B	693	PHE	N-CA-C	7.98	132.54	111.00
1	B	1020	GLN	N-CA-C	7.70	131.80	111.00
1	A	853	LEU	N-CA-C	-7.44	90.91	111.00
1	A	292	ASN	N-CA-C	-7.10	91.84	111.00
1	A	378	GLY	N-CA-C	7.09	130.83	113.10
1	B	292	ASN	N-CA-C	-6.98	92.15	111.00
1	B	377	SER	N-CA-C	6.97	129.82	111.00
1	A	1223	CYS	CA-CB-SG	6.95	126.50	114.00
1	A	854	THR	O-C-N	6.86	133.67	122.70
1	A	377	SER	N-CA-C	6.73	129.17	111.00
1	B	1021	GLY	N-CA-C	6.68	129.81	113.10
1	B	1097	ILE	N-CA-C	-6.64	93.07	111.00
1	B	450	ASP	N-CA-C	-6.61	93.14	111.00
1	B	1009	GLU	N-CA-C	-6.54	93.36	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1014	ILE	N-CA-C	6.50	128.54	111.00
1	B	164	VAL	CB-CA-C	-6.49	99.06	111.40
1	B	165	GLY	N-CA-C	-6.33	97.29	113.10
1	B	959	LEU	N-CA-C	6.26	127.91	111.00
1	A	573	ARG	N-CA-C	6.25	127.88	111.00
1	B	1013	GLU	N-CA-C	6.16	127.62	111.00
1	A	1204	THR	N-CA-C	6.05	127.33	111.00
1	B	1042	THR	N-CA-C	-5.99	94.82	111.00
1	B	1029	GLY	N-CA-C	5.93	127.94	113.10
1	B	1223	CYS	CA-CB-SG	-5.82	103.53	114.00
1	A	1120	ASP	N-CA-C	5.70	126.38	111.00
1	B	1012	PRO	N-CA-C	5.66	126.81	112.10
1	A	427	CYS	C-N-CA	-5.47	110.81	122.30
1	B	1098	LYS	N-CA-C	-5.45	96.28	111.00
1	A	573	ARG	CB-CA-C	-5.44	99.53	110.40
1	A	1193	LEU	CA-CB-CG	5.39	127.70	115.30
1	B	327	VAL	N-CA-C	-5.35	96.55	111.00
1	A	854	THR	CA-C-N	-5.31	105.53	117.20
1	B	694	TRP	N-CA-C	-5.24	96.85	111.00
1	B	1220	GLY	N-CA-C	-5.23	100.03	113.10
1	A	36	LEU	CA-CB-CG	-5.20	103.34	115.30
1	B	1028	GLU	CB-CA-C	-5.17	100.05	110.40
1	A	450	ASP	N-CA-C	-5.13	97.15	111.00
1	A	363	LYS	N-CA-C	-5.10	97.23	111.00
1	A	1206	SER	N-CA-C	-5.09	97.26	111.00
1	B	804	LYS	N-CA-C	-5.08	97.29	111.00
1	A	1042	THR	N-CA-C	-5.07	97.31	111.00
1	B	213	VAL	N-CA-C	-5.07	97.32	111.00
1	B	1120	ASP	N-CA-C	5.02	124.56	111.00

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	9170	0	9338	2363	1
1	B	9170	0	9337	2245	1
2	A	6	0	0	0	0
2	B	6	0	0	0	0
All	All	18352	0	18675	4595	1

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 124.

All (4595) 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:830:ALA:HB2	1:B:990:PHE:CE2	1.25	1.61
1:B:830:ALA:CB	1:B:990:PHE:CE2	2.06	1.36
1:B:830:ALA:CB	1:B:990:PHE:HE2	1.38	1.36
1:B:263:PHE:HE2	1:B:266:GLN:NE2	1.32	1.27
1:A:856:LEU:HD13	1:A:955:PHE:CD1	1.70	1.25
1:A:257:ILE:HG12	1:A:800:PHE:CE2	1.72	1.24
1:B:858:LEU:O	1:B:862:PRO:HD2	1.32	1.24
1:B:908:ARG:HD2	1:B:909:GLU:N	1.53	1.24
1:A:1090:VAL:HG13	1:A:1097:ILE:O	1.29	1.23
1:A:1022:LEU:HD23	1:A:1022:LEU:O	1.36	1.22
1:B:35:VAL:HG12	1:B:359:TYR:CE2	1.74	1.22
1:A:59:ILE:CD1	1:A:124:VAL:HG11	1.69	1.20
1:A:908:ARG:HD2	1:A:909:GLU:N	1.57	1.19
1:A:858:LEU:O	1:A:862:PRO:HD2	1.37	1.18
1:A:1205:GLU:O	1:A:1209:VAL:HG12	1.41	1.18
1:B:996:LYS:H	1:B:996:LYS:HD3	1.01	1.18
1:A:976:ALA:HA	1:A:979:PHE:CD2	1.77	1.17
1:A:478:THR:HG22	1:A:479:THR:H	1.08	1.17
1:B:851:TRP:O	1:B:855:LEU:HB3	1.45	1.17
1:A:694:TRP:O	1:A:697:LEU:HG	1.42	1.16
1:B:253:VAL:O	1:B:254:LEU:HD13	1.42	1.16
1:A:217:ILE:HD12	1:A:218:SER:H	1.08	1.16
1:A:376:LYS:NZ	1:A:377:SER:HB2	1.61	1.16
1:A:376:LYS:HD2	1:A:377:SER:N	1.61	1.16
1:A:512:LEU:HD11	1:A:518:THR:HG21	1.18	1.16
1:A:35:VAL:HG12	1:A:359:TYR:CE2	1.79	1.16
1:A:206:ARG:O	1:A:211:THR:HB	1.43	1.16
1:A:1016:SER:O	1:A:1017:TYR:CD1	1.96	1.16
1:A:853:LEU:CD1	1:A:856:LEU:HD23	1.75	1.16
1:B:512:LEU:HD11	1:B:518:THR:HG21	1.19	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:603:VAL:HG23	1:A:604:GLU:H	1.08	1.15
1:A:958:TYR:O	1:A:966:THR:HG21	1.42	1.15
1:A:156:ILE:H	1:A:156:ILE:CD1	1.53	1.15
1:A:156:ILE:HD12	1:A:156:ILE:N	1.56	1.14
1:B:976:ALA:HA	1:B:979:PHE:CD2	1.81	1.14
1:B:208:TRP:O	1:B:209:LYS:HE3	1.44	1.14
1:A:253:VAL:O	1:A:254:LEU:HD13	1.47	1.14
1:A:857:LEU:HD21	1:A:861:VAL:CG2	1.77	1.13
1:A:942:GLN:O	1:A:945:MET:HB3	1.44	1.13
1:B:314:THR:HG23	1:B:327:VAL:HG21	1.26	1.13
1:B:278:GLU:O	1:B:282:ARG:HG2	1.47	1.13
1:A:405:ILE:CG2	1:A:427:CYS:O	1.96	1.12
1:B:155:GLU:HB3	1:B:156:ILE:HD12	1.30	1.12
1:A:35:VAL:HG23	1:A:36:LEU:H	1.06	1.12
1:A:919:SER:O	1:A:923:PRO:HD2	1.49	1.12
1:B:907:THR:N	1:B:908:ARG:HH11	1.47	1.12
1:B:991:ALA:HB1	1:B:992:PRO:HD2	1.19	1.12
1:A:1144:ALA:HB2	1:A:1187:VAL:HG22	1.30	1.12
1:B:35:VAL:HG23	1:B:36:LEU:H	1.09	1.12
1:B:375:SER:C	1:B:376:LYS:HD2	1.69	1.12
1:A:361:VAL:O	1:A:365:ILE:HG13	1.49	1.11
1:B:263:PHE:CE2	1:B:266:GLN:NE2	2.12	1.11
1:A:1016:SER:O	1:A:1017:TYR:CG	2.04	1.10
1:A:838:ASN:C	1:A:838:ASN:HD22	1.53	1.10
1:B:396:SER:H	1:B:443:LEU:HD12	1.05	1.10
1:B:361:VAL:O	1:B:365:ILE:HG13	1.52	1.10
1:B:478:THR:HG22	1:B:479:THR:H	1.01	1.10
1:A:426:GLY:O	1:A:599:GLY:HA2	1.49	1.09
1:B:405:ILE:H	1:B:405:ILE:HD12	1.17	1.09
1:B:964:LEU:HD22	1:B:965:MET:H	1.08	1.09
1:B:1014:ILE:O	1:B:1015:ASP:HB2	1.49	1.09
1:A:286:LYS:HA	1:A:289:ILE:HB	1.11	1.09
1:B:217:ILE:HD12	1:B:218:SER:H	1.09	1.09
1:B:286:LYS:HA	1:B:289:ILE:HB	1.15	1.09
1:A:853:LEU:HD13	1:A:856:LEU:CD2	1.82	1.09
1:A:908:ARG:HD2	1:A:909:GLU:H	0.95	1.09
1:A:1193:LEU:HB2	1:A:1223:CYS:HB2	1.27	1.09
1:B:285:ILE:O	1:B:289:ILE:HG12	1.53	1.09
1:A:278:GLU:O	1:A:282:ARG:HG2	1.53	1.08
1:A:857:LEU:HD21	1:A:861:VAL:HG23	1.10	1.08
1:B:411:LEU:HD23	1:B:412:LYS:N	1.68	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:901:ARG:H	1:B:901:ARG:HD3	1.17	1.08
1:B:1091:PHE:CE1	1:B:1096:GLU:HA	1.89	1.08
1:A:59:ILE:HD11	1:A:124:VAL:CG1	1.84	1.08
1:B:178:ILE:HD12	1:B:358:ALA:HB2	1.34	1.08
1:A:826:GLY:HA2	1:A:829:LEU:HD12	1.23	1.07
1:B:246:ALA:HB1	1:B:277:LEU:HB3	1.09	1.07
1:B:1095:LYS:H	1:B:1095:LYS:HD2	0.93	1.07
1:A:178:ILE:HD12	1:A:358:ALA:HB2	1.28	1.07
1:A:285:ILE:O	1:A:289:ILE:HG12	1.55	1.07
1:B:156:ILE:HD12	1:B:156:ILE:N	1.68	1.07
1:A:548:LEU:HD22	1:A:550:LEU:HD11	1.32	1.07
1:A:1090:VAL:HG22	1:A:1097:ILE:HB	1.09	1.07
1:A:35:VAL:O	1:A:39:PHE:HB2	1.55	1.07
1:B:603:VAL:HG23	1:B:604:GLU:H	1.01	1.07
1:A:1091:PHE:CE1	1:A:1096:GLU:N	2.21	1.06
1:B:1046:ILE:HG22	1:B:1047:PRO:N	1.66	1.06
1:B:286:LYS:HA	1:B:289:ILE:CB	1.83	1.06
1:A:286:LYS:HA	1:A:289:ILE:CB	1.84	1.06
1:A:286:LYS:CA	1:A:289:ILE:HB	1.84	1.06
1:B:714:ALA:HB1	1:B:833:PHE:HB2	1.36	1.06
1:A:1022:LEU:O	1:A:1022:LEU:CD2	2.02	1.06
1:B:471:GLN:HG2	1:B:472:GLU:H	1.19	1.05
1:B:493:MET:HA	1:B:496:ILE:HD13	1.35	1.05
1:A:376:LYS:HD2	1:A:377:SER:H	0.88	1.05
1:A:405:ILE:HG23	1:A:427:CYS:O	1.54	1.05
1:B:919:SER:O	1:B:923:PRO:HD2	1.57	1.05
1:A:901:ARG:HD3	1:A:901:ARG:H	1.17	1.05
1:B:826:GLY:HA2	1:B:829:LEU:HD12	1.32	1.05
1:B:210:LEU:HA	1:B:213:VAL:HG23	1.37	1.05
1:B:35:VAL:O	1:B:39:PHE:HB2	1.55	1.04
1:B:286:LYS:CA	1:B:289:ILE:HB	1.87	1.04
1:B:1144:ALA:HB2	1:B:1187:VAL:HG22	1.33	1.04
1:B:387:ASN:HD22	1:B:414:LYS:HA	1.23	1.04
1:A:210:LEU:HD23	1:A:317:VAL:HG11	1.36	1.04
1:A:267:LYS:HA	1:A:270:LEU:HD11	1.36	1.04
1:B:830:ALA:HB2	1:B:990:PHE:CD2	1.92	1.04
1:B:1204:THR:HG22	1:B:1205:GLU:H	0.94	1.04
1:B:1252:THR:HG23	1:B:1255:GLN:HB2	1.38	1.04
1:A:718:GLY:CA	1:A:837:ALA:HB2	1.87	1.03
1:B:523:ARG:HD3	1:B:524:GLY:H	1.22	1.03
1:A:853:LEU:O	1:A:856:LEU:N	1.91	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:851:TRP:O	1:A:852:GLN:CD	1.97	1.03
1:B:779:ILE:HG13	1:B:780:LEU:H	1.17	1.03
1:B:304:ALA:HB2	1:B:758:LEU:HD22	1.05	1.03
1:A:964:LEU:HD13	1:A:965:MET:N	1.73	1.02
1:B:163:ASP:HB2	1:B:166:GLU:HB3	1.38	1.02
1:A:907:THR:N	1:A:908:ARG:HH11	1.56	1.02
1:A:1039:ASN:HB2	1:A:1047:PRO:HA	1.36	1.02
1:B:59:ILE:CD1	1:B:124:VAL:HG11	1.90	1.02
1:B:1204:THR:HG22	1:B:1205:GLU:N	1.73	1.02
1:A:1039:ASN:ND2	1:A:1046:ILE:O	1.92	1.02
1:B:718:GLY:CA	1:B:837:ALA:HB2	1.90	1.02
1:B:156:ILE:H	1:B:156:ILE:CD1	1.63	1.01
1:B:390:PHE:HE1	1:B:432:THR:HB	1.25	1.01
1:A:856:LEU:HD13	1:A:955:PHE:HD1	1.05	1.01
1:A:1193:LEU:HB2	1:A:1223:CYS:CB	1.91	1.01
1:B:1095:LYS:HD2	1:B:1095:LYS:N	1.72	1.01
1:A:239:GLU:HG3	1:A:288:ALA:HB2	1.42	1.01
1:A:851:TRP:O	1:A:852:GLN:NE2	1.94	1.01
1:A:1038:PHE:C	1:A:1047:PRO:HB3	1.80	1.01
1:A:1090:VAL:HG22	1:A:1097:ILE:CB	1.90	1.01
1:B:1223:CYS:O	1:B:1223:CYS:SG	2.17	1.01
1:A:246:ALA:HB1	1:A:277:LEU:HB3	1.02	1.01
1:A:265:GLY:HA3	1:A:793:LEU:HD11	1.41	1.01
1:A:1058:LYS:O	1:A:1060:GLN:HG3	1.60	1.01
1:A:1122:SER:HA	1:A:1164:ARG:HA	1.37	1.01
1:B:907:THR:H	1:B:908:ARG:NH1	1.57	1.01
1:A:204:PHE:O	1:A:211:THR:HG21	1.61	1.00
1:A:268:LYS:O	1:A:268:LYS:HD3	1.60	1.00
1:A:471:GLN:HG2	1:A:472:GLU:H	1.22	1.00
1:A:573:ARG:HB3	1:A:578:THR:HG21	1.44	1.00
1:A:1096:GLU:HB3	1:A:1098:LYS:HB3	1.41	1.00
1:B:1144:ALA:HA	1:B:1186:LEU:HD11	1.43	1.00
1:B:958:TYR:O	1:B:966:THR:OG1	1.77	1.00
1:B:796:ASP:O	1:B:797:VAL:O	1.78	1.00
1:B:1122:SER:HA	1:B:1164:ARG:HA	1.38	1.00
1:A:211:THR:O	1:A:214:ILE:HB	1.61	1.00
1:A:1110:GLY:HA3	1:A:1193:LEU:HD22	1.42	1.00
1:B:942:GLN:O	1:B:945:MET:HB3	1.62	1.00
1:B:156:ILE:HD12	1:B:156:ILE:H	0.84	1.00
1:A:35:VAL:CG2	1:A:36:LEU:H	1.74	1.00
1:B:59:ILE:HD11	1:B:124:VAL:HG11	1.02	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:304:ALA:HB2	1:B:758:LEU:CD2	1.92	1.00
1:B:1028:GLU:O	1:B:1093:ASP:OD1	1.78	1.00
1:B:1046:ILE:HG23	1:B:1047:PRO:HD2	1.42	1.00
1:B:908:ARG:HD2	1:B:909:GLU:H	0.85	0.99
1:B:797:VAL:HG12	1:B:798:SER:H	1.28	0.99
1:A:210:LEU:HA	1:A:213:VAL:HG23	1.44	0.99
1:A:1252:THR:HG23	1:A:1255:GLN:HB2	1.40	0.99
1:B:35:VAL:CG2	1:B:36:LEU:H	1.75	0.99
1:B:239:GLU:HG3	1:B:288:ALA:HB2	1.43	0.99
1:B:407:LYS:HZ1	1:B:601:VAL:HA	1.28	0.99
1:A:35:VAL:HG23	1:A:36:LEU:N	1.70	0.99
1:B:267:LYS:H	1:B:270:LEU:HD21	1.24	0.99
1:A:35:VAL:HG12	1:A:359:TYR:HE2	1.19	0.99
1:B:1204:THR:CG2	1:B:1205:GLU:H	1.73	0.99
1:B:830:ALA:CB	1:B:990:PHE:CD2	2.44	0.99
1:B:396:SER:N	1:B:443:LEU:HD12	1.78	0.98
1:B:850:GLY:O	1:B:852:GLN:N	1.95	0.98
1:A:156:ILE:HG12	1:A:439:LEU:O	1.61	0.98
1:A:857:LEU:CD2	1:A:861:VAL:HG23	1.92	0.98
1:A:1039:ASN:HB2	1:A:1047:PRO:CA	1.93	0.98
1:A:1090:VAL:CG2	1:A:1097:ILE:HB	1.92	0.98
1:B:697:LEU:O	1:B:700:ASN:HB2	1.64	0.98
1:A:385:GLN:NE2	1:A:386:GLY:H	1.62	0.98
1:A:1138:TYR:O	1:A:1141:ILE:HG12	1.63	0.98
1:A:994:TYR:O	1:A:996:LYS:NZ	1.96	0.98
1:A:853:LEU:HA	1:A:856:LEU:HB3	1.46	0.98
1:B:399:SER:HB2	1:B:402:GLU:OE2	1.64	0.98
1:B:849:TYR:HB3	1:B:854:THR:OG1	1.63	0.98
1:A:396:SER:H	1:A:443:LEU:HD12	1.27	0.98
1:B:267:LYS:N	1:B:270:LEU:HD21	1.79	0.98
1:B:762:SER:O	1:B:765:THR:HG22	1.64	0.97
1:B:838:ASN:C	1:B:838:ASN:HD22	1.63	0.97
1:A:1205:GLU:O	1:A:1209:VAL:CG1	2.11	0.97
1:B:1039:ASN:HB2	1:B:1047:PRO:HA	1.41	0.97
1:B:1010:LYS:O	1:B:1011:THR:HG23	1.64	0.97
1:A:387:ASN:HD22	1:A:414:LYS:HA	1.28	0.97
1:B:1153:PHE:HA	1:B:1157:LEU:HD23	1.45	0.97
1:B:318:ILE:O	1:B:318:ILE:HD13	1.63	0.97
1:A:964:LEU:HD22	1:A:965:MET:H	1.30	0.97
1:A:543:ARG:HH21	1:A:907:THR:HG23	1.27	0.97
1:B:35:VAL:HG23	1:B:36:LEU:N	1.70	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:853:LEU:HG	1:A:973:VAL:HG21	1.46	0.96
1:B:61:GLY:O	1:B:65:PRO:HD2	1.64	0.96
1:A:246:ALA:HB1	1:A:277:LEU:CB	1.94	0.96
1:A:386:GLY:HA3	1:A:450:ASP:HA	1.47	0.96
1:B:779:ILE:HG13	1:B:780:LEU:N	1.73	0.96
1:B:908:ARG:CD	1:B:909:GLU:H	1.79	0.96
1:B:1193:LEU:HB2	1:B:1223:CYS:HB2	1.48	0.96
1:B:35:VAL:HA	1:B:359:TYR:CD2	2.00	0.96
1:B:1218:ARG:HH22	1:B:1235:ASN:HD22	1.14	0.96
1:B:786:TYR:HE2	1:B:790:LYS:HZ2	1.06	0.96
1:A:34:SER:HA	1:A:38:MET:HB2	1.48	0.95
1:B:519:LEU:HD13	1:B:519:LEU:H	1.31	0.95
1:B:851:TRP:HA	1:B:854:THR:HB	1.48	0.95
1:B:1048:VAL:HG23	1:B:1049:LEU:HD22	1.47	0.95
1:B:543:ARG:HH21	1:B:907:THR:HG23	1.24	0.95
1:B:1095:LYS:H	1:B:1095:LYS:CD	1.79	0.95
1:A:331:PHE:O	1:A:334:VAL:HG12	1.65	0.95
1:A:722:PRO:HD3	1:A:982:MET:HE1	1.49	0.95
1:A:1243:GLN:O	1:A:1246:LYS:HD2	1.65	0.95
1:A:1153:PHE:HA	1:A:1157:LEU:HD23	1.49	0.95
1:A:267:LYS:HB3	1:A:790:LYS:HE2	1.49	0.95
1:B:172:THR:O	1:B:175:VAL:HG12	1.67	0.95
1:B:603:VAL:HG23	1:B:604:GLU:N	1.82	0.95
1:A:405:ILE:HD12	1:A:405:ILE:H	1.28	0.94
1:B:210:LEU:HD23	1:B:317:VAL:HG11	1.48	0.94
1:B:278:GLU:C	1:B:282:ARG:HG2	1.86	0.94
1:A:697:LEU:O	1:A:700:ASN:HB2	1.67	0.94
1:B:478:THR:HG22	1:B:479:THR:N	1.82	0.94
1:B:909:GLU:HA	1:B:909:GLU:OE2	1.66	0.94
1:B:1110:GLY:HA3	1:B:1193:LEU:HD22	1.47	0.94
1:A:110:TYR:HA	1:A:113:TYR:HD2	1.33	0.94
1:B:1046:ILE:CG2	1:B:1047:PRO:N	2.28	0.94
1:A:163:ASP:HB2	1:A:166:GLU:HB3	1.46	0.94
1:A:267:LYS:N	1:A:270:LEU:HD21	1.82	0.94
1:A:908:ARG:O	1:A:911:LYS:HB3	1.66	0.94
1:A:315:SER:O	1:A:318:ILE:HG22	1.68	0.94
1:A:362:PHE:HA	1:A:365:ILE:HB	1.49	0.94
1:A:411:LEU:HD23	1:A:412:LYS:N	1.83	0.94
1:A:798:SER:HA	1:A:801:ASP:HB2	1.47	0.94
1:B:1014:ILE:O	1:B:1014:ILE:HG12	1.63	0.94
1:B:395:PHE:HA	1:B:443:LEU:HB2	1.50	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:282:ARG:O	1:B:286:LYS:HD3	1.69	0.93
1:A:35:VAL:HA	1:A:359:TYR:CD2	2.02	0.93
1:A:523:ARG:HD3	1:A:524:GLY:H	1.31	0.93
1:A:1081:ARG:NH1	1:A:1098:LYS:O	2.00	0.93
1:B:59:ILE:HD11	1:B:124:VAL:CG1	1.97	0.93
1:A:1063:ALA:HB2	1:A:1236:ALA:HB1	1.51	0.93
1:B:279:GLU:HG2	1:B:782:LYS:NZ	1.84	0.93
1:B:304:ALA:CB	1:B:758:LEU:HD22	1.97	0.93
1:A:512:LEU:HD12	1:A:513:PRO:CD	1.98	0.93
1:A:711:ILE:HD11	1:A:832:ILE:HD13	1.50	0.93
1:A:214:ILE:HD11	1:A:330:VAL:HB	1.49	0.93
1:A:395:PHE:HA	1:A:443:LEU:HB2	1.50	0.93
1:A:762:SER:O	1:A:765:THR:HG22	1.68	0.93
1:A:379:HIS:HB3	1:A:457:ILE:HA	1.48	0.93
1:A:288:ALA:HA	1:A:291:ALA:HB3	1.48	0.93
1:A:1000:SER:O	1:A:1004:ILE:HG22	1.69	0.93
1:A:1038:PHE:O	1:A:1047:PRO:HB3	1.69	0.93
1:B:1058:LYS:O	1:B:1060:GLN:HG3	1.68	0.93
1:B:780:LEU:O	1:B:784:LEU:HB2	1.68	0.93
1:B:798:SER:HA	1:B:801:ASP:HB2	1.51	0.93
1:A:409:LEU:HD22	1:A:410:ASN:N	1.84	0.93
1:B:35:VAL:HG12	1:B:359:TYR:HE2	1.30	0.93
1:B:1039:ASN:HB2	1:B:1047:PRO:CA	1.99	0.93
1:A:151:ILE:HD12	1:A:167:LEU:HD11	1.47	0.93
1:A:1094:GLY:O	1:A:1095:LYS:HG3	1.69	0.92
1:B:718:GLY:HA3	1:B:837:ALA:HB2	1.49	0.92
1:B:958:TYR:O	1:B:966:THR:CB	2.16	0.92
1:A:991:ALA:HB1	1:A:992:PRO:HD2	1.51	0.92
1:B:191:GLN:O	1:B:195:THR:HG22	1.69	0.92
1:A:696:ILE:HG22	1:A:1005:ILE:HD12	1.51	0.92
1:A:718:GLY:HA3	1:A:837:ALA:HB2	1.50	0.92
1:A:1144:ALA:HA	1:A:1186:LEU:HD11	1.52	0.92
1:A:246:ALA:CB	1:A:277:LEU:HB3	1.97	0.92
1:A:779:ILE:HG13	1:A:780:LEU:N	1.81	0.92
1:A:1048:VAL:HG23	1:A:1049:LEU:HD22	1.50	0.92
1:A:1090:VAL:CG1	1:A:1097:ILE:O	2.17	0.92
1:A:1211:GLN:O	1:A:1215:ASP:HB2	1.69	0.92
1:A:133:CYS:SG	1:A:931:ALA:HA	2.09	0.92
1:A:279:GLU:HG2	1:A:782:LYS:NZ	1.83	0.92
1:A:384:ILE:HG22	1:A:385:GLN:H	1.33	0.92
1:B:357:ALA:O	1:B:361:VAL:HG22	1.70	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:LEU:HD22	1:B:410:ASN:N	1.85	0.92
1:B:1063:ALA:HB2	1:B:1236:ALA:HB1	1.52	0.92
1:A:61:GLY:O	1:A:65:PRO:HD2	1.68	0.92
1:A:857:LEU:HD11	1:A:977:ILE:HA	1.51	0.91
1:A:992:PRO:O	1:A:994:TYR:N	2.03	0.91
1:B:217:ILE:HD12	1:B:218:SER:N	1.85	0.91
1:B:209:LYS:O	1:B:212:LEU:HB3	1.69	0.91
1:B:996:LYS:HD3	1:B:996:LYS:N	1.85	0.91
1:A:376:LYS:HZ3	1:A:377:SER:HB2	1.32	0.91
1:B:996:LYS:H	1:B:996:LYS:CD	1.83	0.91
1:B:1015:ASP:H	1:B:1017:TYR:HE1	1.09	0.91
1:B:291:ALA:HA	1:B:294:SER:HB2	1.50	0.91
1:A:185:LYS:HZ2	1:A:186:ILE:N	1.68	0.91
1:A:853:LEU:HD13	1:A:856:LEU:HD23	1.43	0.91
1:B:362:PHE:HA	1:B:365:ILE:HB	1.51	0.91
1:A:282:ARG:O	1:A:286:LYS:HB2	1.70	0.91
1:A:311:TRP:CD1	1:A:754:LEU:HD13	2.06	0.91
1:A:1091:PHE:CD1	1:A:1096:GLU:N	2.39	0.91
1:B:1123:ILE:HD11	1:B:1161:TYR:HA	1.52	0.91
1:A:257:ILE:HG12	1:A:800:PHE:HE2	1.15	0.90
1:A:438:ARG:HH11	1:A:438:ARG:HG3	1.36	0.90
1:A:519:LEU:H	1:A:519:LEU:HD13	1.37	0.90
1:B:603:VAL:CG2	1:B:604:GLU:H	1.85	0.90
1:B:1046:ILE:HG23	1:B:1047:PRO:CD	2.00	0.90
1:A:1096:GLU:HB2	1:A:1099:GLN:NE2	1.86	0.90
1:B:1173:SER:HB3	1:B:1176:GLN:OE1	1.71	0.90
1:A:1258:ALA:O	1:A:1260:LYS:HD2	1.69	0.90
1:B:995:ALA:H	1:B:996:LYS:HZ1	1.17	0.90
1:B:1010:LYS:H	1:B:1010:LYS:HD2	1.35	0.90
1:B:478:THR:CG2	1:B:479:THR:H	1.85	0.90
1:A:155:GLU:HB3	1:A:156:ILE:HD12	1.54	0.90
1:A:238:LYS:HE2	1:A:238:LYS:O	1.72	0.90
1:A:1173:SER:HB3	1:A:1176:GLN:OE1	1.72	0.90
1:B:795:GLN:O	1:B:796:ASP:HB3	1.72	0.90
1:B:1091:PHE:CE1	1:B:1096:GLU:HG2	2.06	0.90
1:B:1258:ALA:O	1:B:1260:LYS:HD2	1.72	0.90
1:A:1137:SER:OG	1:A:1140:GLU:HB2	1.72	0.89
1:B:548:LEU:HD22	1:B:550:LEU:HD11	1.53	0.89
1:A:59:ILE:HD11	1:A:124:VAL:HG11	0.90	0.89
1:B:211:THR:O	1:B:214:ILE:HB	1.73	0.89
1:B:1038:PHE:C	1:B:1047:PRO:HB3	1.93	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:GLU:C	1:A:282:ARG:HG2	1.93	0.89
1:A:396:SER:N	1:A:443:LEU:HD12	1.87	0.89
1:A:1218:ARG:HH22	1:A:1235:ASN:HD22	1.20	0.89
1:A:1234:GLN:HG2	1:A:1253:HIS:CD2	2.07	0.89
1:B:523:ARG:CD	1:B:524:GLY:H	1.84	0.89
1:A:1123:ILE:HD11	1:A:1161:TYR:HA	1.54	0.89
1:A:996:LYS:H	1:A:996:LYS:HD3	1.36	0.89
1:A:282:ARG:O	1:A:286:LYS:HD3	1.72	0.89
1:B:270:LEU:HD23	1:B:270:LEU:H	1.37	0.89
1:A:853:LEU:HD12	1:A:856:LEU:HD23	1.52	0.89
1:B:407:LYS:NZ	1:B:601:VAL:HA	1.88	0.89
1:A:376:LYS:HZ2	1:A:377:SER:HB2	1.34	0.88
1:B:254:LEU:HD22	1:B:254:LEU:N	1.88	0.88
1:B:288:ALA:HA	1:B:291:ALA:HB3	1.55	0.88
1:B:696:ILE:HG22	1:B:1005:ILE:HD12	1.52	0.88
1:B:1138:TYR:O	1:B:1141:ILE:HG12	1.73	0.88
1:A:128:GLN:O	1:A:131:PHE:HB3	1.70	0.88
1:A:191:GLN:O	1:A:195:THR:HG22	1.74	0.88
1:A:493:MET:HA	1:A:496:ILE:HD13	1.55	0.88
1:B:385:GLN:NE2	1:B:386:GLY:H	1.70	0.88
1:A:548:LEU:HD22	1:A:550:LEU:CD1	2.02	0.88
1:A:1013:GLU:O	1:A:1014:ILE:HG23	1.73	0.88
1:A:1060:GLN:HB2	1:A:1237:ASP:OD1	1.74	0.88
1:A:1091:PHE:HE1	1:A:1096:GLU:HG2	1.38	0.88
1:B:718:GLY:O	1:B:722:PRO:HD2	1.72	0.88
1:B:858:LEU:O	1:B:862:PRO:CD	2.20	0.88
1:B:1038:PHE:O	1:B:1047:PRO:HB3	1.73	0.88
1:B:287:LYS:O	1:B:291:ALA:HB2	1.73	0.88
1:A:478:THR:HG22	1:A:479:THR:N	1.89	0.88
1:A:779:ILE:HG13	1:A:780:LEU:H	1.33	0.88
1:A:1062:LEU:HD12	1:A:1224:ILE:HG23	1.54	0.88
1:B:1020:GLN:CD	1:B:1020:GLN:H	1.76	0.88
1:A:780:LEU:O	1:A:784:LEU:HB2	1.71	0.88
1:B:905:SER:HB2	1:B:908:ARG:NH1	1.88	0.88
1:B:1090:VAL:O	1:B:1091:PHE:CD1	2.27	0.87
1:A:714:ALA:HB1	1:A:833:PHE:HB2	1.57	0.87
1:B:202:ILE:HD12	1:B:203:GLY:N	1.88	0.87
1:B:1053:SER:O	1:B:1054:LEU:HD13	1.73	0.87
1:B:1110:GLY:HA3	1:B:1193:LEU:CD2	2.04	0.87
1:A:853:LEU:HA	1:A:856:LEU:CB	2.04	0.87
1:B:543:ARG:NH2	1:B:905:SER:O	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:TYR:HA	1:A:113:TYR:CD2	2.08	0.87
1:A:405:ILE:HG21	1:A:427:CYS:O	1.73	0.87
1:B:208:TRP:O	1:B:209:LYS:CE	2.23	0.87
1:B:892:ILE:HB	1:B:916:TYR:OH	1.74	0.87
1:A:384:ILE:CG2	1:A:546:LYS:HE2	2.03	0.87
1:A:858:LEU:O	1:A:862:PRO:CD	2.22	0.87
1:B:286:LYS:HA	1:B:289:ILE:CG1	2.05	0.87
1:B:1015:ASP:N	1:B:1017:TYR:HE1	1.72	0.87
1:B:1091:PHE:HE1	1:B:1096:GLU:HG2	1.36	0.87
1:B:846:SER:O	1:B:849:TYR:HB2	1.75	0.87
1:B:1091:PHE:CD1	1:B:1096:GLU:HA	2.08	0.87
1:B:186:ILE:HG13	1:B:187:GLY:N	1.90	0.87
1:B:374:PHE:HE1	1:B:376:LYS:HB2	1.40	0.87
1:B:1151:HIS:HA	1:B:1154:ILE:HB	1.55	0.87
1:A:217:ILE:HD12	1:A:218:SER:N	1.90	0.87
1:B:964:LEU:HD22	1:B:965:MET:N	1.90	0.87
1:A:786:TYR:HE2	1:A:790:LYS:HZ2	1.21	0.86
1:A:797:VAL:HG12	1:A:798:SER:H	1.40	0.86
1:B:1243:GLN:O	1:B:1246:LYS:HD2	1.75	0.86
1:B:279:GLU:HG2	1:B:782:LYS:HZ3	1.37	0.86
1:A:39:PHE:CE2	1:A:355:ARG:HA	2.09	0.86
1:A:178:ILE:CD1	1:A:358:ALA:HB2	2.06	0.86
1:A:315:SER:HB3	1:A:747:ASN:ND2	1.90	0.86
1:A:318:ILE:HD12	1:A:735:PHE:CZ	2.09	0.86
1:B:34:SER:HA	1:B:38:MET:HB2	1.56	0.86
1:B:49:TYR:OH	1:B:130:SER:HB2	1.75	0.86
1:B:151:ILE:HD12	1:B:167:LEU:HD11	1.54	0.86
1:B:454:ILE:HG23	1:B:455:ARG:H	1.37	0.86
1:B:156:ILE:HG12	1:B:439:LEU:O	1.75	0.86
1:B:711:ILE:HG13	1:B:832:ILE:HG21	1.57	0.86
1:A:725:SER:HB3	1:A:975:SER:CB	2.05	0.86
1:A:892:ILE:HB	1:A:916:TYR:CZ	2.09	0.86
1:B:70:ILE:HG21	1:B:113:TYR:CD1	2.10	0.86
1:B:1211:GLN:O	1:B:1215:ASP:HB2	1.75	0.86
1:A:697:LEU:HD12	1:A:698:LYS:N	1.89	0.86
1:A:853:LEU:CD1	1:A:856:LEU:CD2	2.46	0.86
1:B:1097:ILE:HD11	1:B:1100:LEU:HD22	1.54	0.86
1:B:1197:GLU:HG2	1:B:1227:ALA:HA	1.57	0.86
1:A:376:LYS:CD	1:A:377:SER:H	1.82	0.86
1:A:1014:ILE:HG22	1:A:1102:VAL:HG11	1.54	0.86
1:B:1046:ILE:CG2	1:B:1047:PRO:CD	2.52	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:907:THR:H	1:A:908:ARG:HH11	0.92	0.86
1:A:1004:ILE:HD13	1:A:1004:ILE:C	1.96	0.86
1:B:388:LEU:HD11	1:B:547:ILE:HD12	1.58	0.86
1:A:208:TRP:HB3	1:A:209:LYS:NZ	1.90	0.86
1:A:892:ILE:HB	1:A:916:TYR:OH	1.75	0.86
1:B:318:ILE:CG1	1:B:325:GLY:H	1.88	0.86
1:A:1197:GLU:HG2	1:A:1227:ALA:HA	1.58	0.85
1:B:438:ARG:HG3	1:B:438:ARG:HH11	1.38	0.85
1:A:838:ASN:C	1:A:838:ASN:ND2	2.29	0.85
1:B:991:ALA:HB1	1:B:992:PRO:CD	2.04	0.85
1:A:96:LYS:HE3	1:A:962:GLN:NE2	1.90	0.85
1:B:246:ALA:CB	1:B:277:LEU:HB3	2.01	0.85
1:B:1091:PHE:HE1	1:B:1096:GLU:HA	1.39	0.85
1:A:140:ILE:HG13	1:A:179:ASN:HD22	1.39	0.85
1:B:39:PHE:CE2	1:B:355:ARG:HA	2.12	0.85
1:B:282:ARG:O	1:B:286:LYS:HB2	1.76	0.85
1:B:720:LEU:HD13	1:B:761:ILE:HG21	1.58	0.85
1:A:385:GLN:CD	1:A:386:GLY:H	1.79	0.85
1:A:688:VAL:HB	1:A:1006:ARG:HH12	1.41	0.85
1:A:908:ARG:CD	1:A:909:GLU:H	1.86	0.85
1:B:721:GLN:HG2	1:B:982:MET:HE3	1.58	0.85
1:A:696:ILE:HG22	1:A:1005:ILE:CD1	2.06	0.85
1:A:853:LEU:HD13	1:A:856:LEU:HD22	1.56	0.85
1:A:1120:ASP:OD2	1:A:1168:LYS:HG3	1.76	0.85
1:B:238:LYS:HE2	1:B:238:LYS:O	1.76	0.85
1:A:357:ALA:O	1:A:361:VAL:HG22	1.76	0.85
1:A:859:ALA:O	1:A:863:ILE:HD13	1.76	0.85
1:B:201:ILE:O	1:B:205:THR:HB	1.77	0.85
1:A:907:THR:H	1:A:908:ARG:NH1	1.74	0.84
1:B:178:ILE:CD1	1:B:358:ALA:HB2	2.07	0.84
1:B:512:LEU:HD11	1:B:518:THR:CG2	2.07	0.84
1:A:718:GLY:O	1:A:722:PRO:HD2	1.75	0.84
1:A:374:PHE:CE1	1:A:376:LYS:HB3	2.12	0.84
1:A:1094:GLY:C	1:A:1095:LYS:HG3	1.92	0.84
1:A:99:MET:HB3	1:A:960:VAL:O	1.77	0.84
1:A:270:LEU:HD13	1:A:789:PHE:CE1	2.13	0.84
1:B:498:LYS:HE2	1:B:498:LYS:O	1.76	0.84
1:B:315:SER:O	1:B:318:ILE:HG22	1.78	0.84
1:B:385:GLN:CD	1:B:386:GLY:H	1.80	0.84
1:A:254:LEU:HD22	1:A:254:LEU:N	1.92	0.84
1:A:270:LEU:HD23	1:A:270:LEU:H	1.41	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:ILE:HD11	1:B:331:PHE:HE2	1.43	0.84
1:A:1192:ILE:HD13	1:A:1193:LEU:H	1.40	0.84
1:B:795:GLN:O	1:B:796:ASP:CB	2.23	0.84
1:A:267:LYS:HB2	1:A:267:LYS:NZ	1.93	0.83
1:B:246:ALA:HB1	1:B:277:LEU:CB	2.02	0.83
1:B:900:PHE:C	1:B:902:THR:H	1.77	0.83
1:A:506:TYR:O	1:A:510:MET:HG2	1.79	0.83
1:A:110:TYR:CA	1:A:113:TYR:HD2	1.91	0.83
1:A:239:GLU:HB3	1:A:285:ILE:HG12	1.60	0.83
1:B:697:LEU:HD12	1:B:698:LYS:N	1.93	0.83
1:B:253:VAL:C	1:B:254:LEU:HD22	1.99	0.83
1:B:314:THR:HG23	1:B:327:VAL:CG2	2.05	0.83
1:A:199:GLY:O	1:A:203:GLY:HA3	1.79	0.83
1:B:797:VAL:O	1:B:799:TRP:N	2.12	0.83
1:A:49:TYR:OH	1:A:130:SER:HB2	1.78	0.83
1:A:318:ILE:O	1:A:318:ILE:HD13	1.77	0.83
1:A:603:VAL:HG23	1:A:604:GLU:N	1.91	0.83
1:A:713:CYS:O	1:A:716:ILE:HG13	1.78	0.83
1:B:278:GLU:HA	1:B:282:ARG:NH2	1.94	0.83
1:B:381:PRO:HB2	1:B:461:TYR:CE1	2.14	0.83
1:A:206:ARG:O	1:A:211:THR:CB	2.27	0.83
1:A:214:ILE:HD11	1:A:330:VAL:CB	2.09	0.83
1:A:407:LYS:HZ1	1:A:601:VAL:HA	1.43	0.83
1:A:1167:ASP:C	1:A:1168:LYS:HD2	1.98	0.83
1:B:992:PRO:O	1:B:994:TYR:N	2.12	0.83
1:A:265:GLY:CA	1:A:793:LEU:HD11	2.09	0.83
1:A:247:GLY:O	1:A:250:ALA:HB3	1.79	0.82
1:A:288:ALA:CA	1:A:291:ALA:HB3	2.08	0.82
1:A:1042:THR:C	1:A:1044:PRO:HD2	1.99	0.82
1:B:840:GLY:O	1:B:844:ILE:HG12	1.79	0.82
1:A:291:ALA:HA	1:A:294:SER:HB2	1.60	0.82
1:B:266:GLN:O	1:B:267:LYS:HB2	1.79	0.82
1:B:492:THR:HB	1:B:495:GLU:OE2	1.79	0.82
1:A:132:TRP:CD1	1:A:132:TRP:C	2.53	0.82
1:A:156:ILE:H	1:A:156:ILE:HD12	0.70	0.82
1:A:1262:ILE:H	1:A:1262:ILE:HD12	1.45	0.82
1:A:240:LEU:O	1:A:243:TYR:HB3	1.78	0.82
1:B:331:PHE:O	1:B:334:VAL:HG12	1.80	0.82
1:A:35:VAL:CG2	1:A:36:LEU:HD23	2.10	0.82
1:B:239:GLU:HB3	1:B:285:ILE:HG12	1.60	0.82
1:A:1151:HIS:HA	1:A:1154:ILE:HB	1.62	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:186:ILE:HG13	1:A:187:GLY:N	1.93	0.82
1:A:253:VAL:C	1:A:254:LEU:HD22	2.00	0.82
1:A:756:LEU:HD12	1:A:757:ILE:N	1.93	0.82
1:A:1236:ALA:HB3	1:A:1239:ILE:HD11	1.59	0.82
1:A:1239:ILE:N	1:A:1239:ILE:HD12	1.95	0.82
1:A:711:ILE:CD1	1:A:832:ILE:HD13	2.09	0.81
1:B:131:PHE:CZ	1:B:185:LYS:NZ	2.46	0.81
1:A:257:ILE:CG1	1:A:800:PHE:CE2	2.61	0.81
1:B:697:LEU:C	1:B:700:ASN:HB2	2.01	0.81
1:A:318:ILE:HD12	1:A:735:PHE:HZ	1.45	0.81
1:A:843:ILE:O	1:A:846:SER:HB2	1.80	0.81
1:B:1117:ILE:HD12	1:B:1118:LEU:H	1.43	0.81
1:B:1120:ASP:OD2	1:B:1168:LYS:HG3	1.79	0.81
1:A:512:LEU:HD12	1:A:513:PRO:HD2	1.61	0.81
1:A:711:ILE:HG13	1:A:832:ILE:HG21	1.62	0.81
1:A:202:ILE:HD12	1:A:203:GLY:N	1.94	0.81
1:A:239:GLU:HG3	1:A:288:ALA:CB	2.11	0.81
1:B:549:LEU:HG	1:B:579:ILE:HG22	1.62	0.81
1:B:765:THR:O	1:B:769:GLN:NE2	2.13	0.81
1:A:1091:PHE:CE1	1:A:1096:GLU:CA	2.64	0.81
1:A:303:TYR:O	1:A:306:TYR:HD2	1.63	0.81
1:B:725:SER:HB3	1:B:975:SER:CB	2.09	0.81
1:B:1045:SER:O	1:B:1046:ILE:O	1.98	0.81
1:A:314:THR:HG23	1:A:327:VAL:HG21	1.61	0.81
1:A:384:ILE:HG23	1:A:546:LYS:HE2	1.62	0.81
1:A:727:ILE:HD12	1:A:754:LEU:HG	1.61	0.81
1:B:493:MET:CA	1:B:496:ILE:HD13	2.10	0.81
1:B:546:LYS:O	1:B:577:THR:HG23	1.80	0.81
1:B:616:GLY:O	1:B:620:LYS:HB2	1.80	0.81
1:B:1234:GLN:HG2	1:B:1253:HIS:CD2	2.16	0.81
1:A:856:LEU:CD1	1:A:955:PHE:HD1	1.90	0.81
1:B:239:GLU:HG3	1:B:288:ALA:CB	2.11	0.81
1:A:699:LEU:O	1:A:703:GLU:OE1	1.99	0.81
1:A:214:ILE:HD11	1:A:330:VAL:CG1	2.11	0.80
1:A:279:GLU:HG2	1:A:782:LYS:HZ3	1.43	0.80
1:A:286:LYS:HA	1:A:289:ILE:CG1	2.11	0.80
1:B:858:LEU:HD12	1:B:859:ALA:N	1.96	0.80
1:B:1097:ILE:HD13	1:B:1100:LEU:HB2	1.62	0.80
1:A:266:GLN:HB2	1:A:270:LEU:HD21	1.62	0.80
1:A:853:LEU:CA	1:A:856:LEU:HB3	2.10	0.80
1:A:1091:PHE:CE1	1:A:1096:GLU:HG2	2.15	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:278:GLU:HA	1:A:282:ARG:NH2	1.96	0.80
1:A:267:LYS:H	1:A:270:LEU:HD21	1.47	0.80
1:A:900:PHE:C	1:A:902:THR:H	1.82	0.80
1:A:1080:GLU:OE2	1:A:1109:LEU:HD12	1.82	0.80
1:B:796:ASP:O	1:B:801:ASP:OD1	1.98	0.80
1:A:603:VAL:CG2	1:A:604:GLU:H	1.92	0.80
1:A:287:LYS:O	1:A:291:ALA:HB2	1.80	0.80
1:A:306:TYR:O	1:A:310:PHE:HB2	1.82	0.80
1:A:718:GLY:HA2	1:A:837:ALA:HB2	1.63	0.80
1:B:379:HIS:HB3	1:B:457:ILE:HA	1.62	0.80
1:B:392:ASN:O	1:B:445:GLY:HA3	1.80	0.80
1:B:1239:ILE:HD12	1:B:1239:ILE:N	1.97	0.80
1:A:616:GLY:O	1:A:620:LYS:HB2	1.82	0.80
1:B:958:TYR:O	1:B:966:THR:HG21	1.80	0.80
1:B:958:TYR:CE2	1:B:959:LEU:HB2	2.16	0.80
1:B:1236:ALA:HB3	1:B:1239:ILE:HD11	1.61	0.80
1:A:818:ALA:O	1:A:821:VAL:HG22	1.81	0.80
1:B:185:LYS:HZ2	1:B:186:ILE:N	1.80	0.80
1:B:313:GLY:O	1:B:317:VAL:HG23	1.80	0.80
1:B:964:LEU:O	1:B:966:THR:N	2.13	0.80
1:B:1019:THR:HG22	1:B:1100:LEU:HD12	1.63	0.80
1:A:399:SER:HB2	1:A:402:GLU:OE2	1.81	0.80
1:A:857:LEU:HD23	1:A:857:LEU:C	2.02	0.80
1:A:1118:LEU:HD12	1:A:1118:LEU:N	1.96	0.80
1:B:303:TYR:O	1:B:306:TYR:HD2	1.65	0.80
1:B:892:ILE:HB	1:B:916:TYR:CZ	2.17	0.80
1:B:907:THR:H	1:B:908:ARG:HH11	0.80	0.80
1:A:454:ILE:HG23	1:A:455:ARG:H	1.46	0.79
1:A:1063:ALA:HB3	1:A:1239:ILE:HA	1.64	0.79
1:B:776:ALA:O	1:B:780:LEU:HB2	1.81	0.79
1:A:713:CYS:HB3	1:A:768:LEU:HD21	1.63	0.79
1:B:697:LEU:CA	1:B:700:ASN:HB2	2.12	0.79
1:A:982:MET:HG2	1:A:983:ALA:N	1.96	0.79
1:A:1072:LYS:HB3	1:A:1226:ILE:HD13	1.64	0.79
1:A:1173:SER:H	1:A:1176:GLN:HE22	1.26	0.79
1:B:128:GLN:O	1:B:131:PHE:HB3	1.80	0.79
1:B:959:LEU:HD13	1:B:964:LEU:HG	1.65	0.79
1:A:172:THR:O	1:A:175:VAL:HG12	1.82	0.79
1:B:471:GLN:HG2	1:B:472:GLU:N	1.96	0.79
1:B:1124:ALA:HB2	1:B:1161:TYR:HB3	1.65	0.79
1:B:1137:SER:OG	1:B:1140:GLU:HB2	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:267:LYS:CB	1:A:790:LYS:HE2	2.13	0.79
1:A:296:GLY:HA3	1:A:766:PHE:CE2	2.16	0.79
1:A:429:LYS:HD3	1:A:429:LYS:H	1.47	0.79
1:A:799:TRP:O	1:A:803:PRO:HB3	1.82	0.79
1:A:800:PHE:O	1:A:803:PRO:HD3	1.83	0.79
1:A:857:LEU:O	1:A:860:ILE:N	2.16	0.79
1:A:279:GLU:O	1:A:282:ARG:HB2	1.82	0.79
1:A:429:LYS:HB3	1:A:581:ILE:HG13	1.65	0.79
1:A:1072:LYS:O	1:A:1076:VAL:HG23	1.83	0.79
1:B:857:LEU:CD1	1:B:976:ALA:HB3	2.13	0.79
1:B:1144:ALA:CB	1:B:1187:VAL:HG22	2.13	0.79
1:A:1126:ASN:O	1:A:1129:TYR:N	2.15	0.79
1:B:305:SER:O	1:B:308:LEU:HB3	1.83	0.79
1:B:1144:ALA:HA	1:B:1186:LEU:CD1	2.11	0.79
1:A:970:VAL:HG23	1:A:971:LEU:HD22	1.64	0.79
1:B:991:ALA:CB	1:B:992:PRO:HD2	2.07	0.79
1:A:415:SER:O	1:A:417:GLN:N	2.16	0.79
1:B:1033:PHE:CD1	1:B:1036:VAL:HG21	2.18	0.79
1:A:919:SER:O	1:A:923:PRO:CD	2.31	0.78
1:B:131:PHE:HZ	1:B:185:LYS:HZ1	1.30	0.78
1:B:155:GLU:HB3	1:B:156:ILE:CD1	2.11	0.78
1:B:550:LEU:HB2	1:B:580:VAL:HG23	1.65	0.78
1:B:756:LEU:HD12	1:B:757:ILE:N	1.97	0.78
1:B:800:PHE:O	1:B:803:PRO:HD3	1.82	0.78
1:A:1153:PHE:CZ	1:A:1176:GLN:HG2	2.19	0.78
1:B:713:CYS:HB3	1:B:768:LEU:HD21	1.64	0.78
1:B:279:GLU:O	1:B:282:ARG:HB2	1.82	0.78
1:B:386:GLY:HA3	1:B:450:ASP:HA	1.65	0.78
1:B:722:PRO:HD3	1:B:982:MET:HE1	1.64	0.78
1:B:899:ASN:O	1:B:901:ARG:N	2.15	0.78
1:B:976:ALA:HA	1:B:979:PHE:CG	2.18	0.78
1:A:407:LYS:NZ	1:A:601:VAL:HA	1.98	0.78
1:A:1096:GLU:HB2	1:A:1099:GLN:HE22	1.47	0.78
1:B:905:SER:HB2	1:B:908:ARG:HH12	1.44	0.78
1:A:158:TRP:O	1:A:158:TRP:CD1	2.37	0.78
1:B:907:THR:N	1:B:908:ARG:NH1	2.21	0.78
1:A:203:GLY:O	1:A:215:LEU:HD21	1.83	0.78
1:A:1056:VAL:CG2	1:A:1062:LEU:HB2	2.13	0.78
1:B:1091:PHE:HE1	1:B:1096:GLU:CG	1.96	0.78
1:A:98:ALA:O	1:A:101:ALA:HB3	1.83	0.78
1:A:1040:TYR:O	1:A:1042:THR:HG22	1.84	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:696:ILE:HG22	1:B:1005:ILE:CD1	2.13	0.78
1:B:1091:PHE:CE1	1:B:1096:GLU:CA	2.66	0.78
1:A:1117:ILE:HD12	1:A:1118:LEU:H	1.49	0.78
1:A:1123:ILE:O	1:A:1127:ILE:HG13	1.83	0.78
1:B:212:LEU:HD12	1:B:215:LEU:HB2	1.66	0.78
1:B:908:ARG:CD	1:B:909:GLU:N	2.41	0.78
1:B:1040:TYR:O	1:B:1042:THR:HG22	1.84	0.78
1:A:720:LEU:HD13	1:A:761:ILE:HG21	1.66	0.77
1:B:722:PRO:HB2	1:B:841:THR:HG21	1.66	0.77
1:A:471:GLN:HG2	1:A:472:GLU:N	1.99	0.77
1:B:850:GLY:C	1:B:851:TRP:CD1	2.57	0.77
1:A:1090:VAL:O	1:A:1091:PHE:CD1	2.38	0.77
1:B:288:ALA:CA	1:B:291:ALA:HB3	2.14	0.77
1:B:708:VAL:O	1:B:711:ILE:HG23	1.84	0.77
1:A:740:PRO:HG2	1:A:741:PRO:HD3	1.66	0.77
1:A:1053:SER:O	1:A:1054:LEU:HD13	1.85	0.77
1:B:1096:GLU:HB2	1:B:1099:GLN:HE21	1.49	0.77
1:A:722:PRO:HB2	1:A:841:THR:HG21	1.64	0.77
1:B:418:THR:HB	1:B:578:THR:HG23	1.65	0.77
1:B:906:LEU:C	1:B:908:ARG:HE	1.88	0.77
1:B:958:TYR:O	1:B:966:THR:CG2	2.32	0.77
1:B:1030:ASN:OD1	1:B:1057:LYS:C	2.23	0.77
1:A:717:ASN:O	1:A:720:LEU:HB3	1.84	0.77
1:A:266:GLN:HB2	1:A:270:LEU:CD2	2.14	0.77
1:A:1091:PHE:CE1	1:A:1096:GLU:HA	2.19	0.77
1:B:435:LEU:H	1:B:435:LEU:HD22	1.48	0.77
1:A:305:SER:O	1:A:308:LEU:HB3	1.85	0.77
1:A:315:SER:HG	1:A:747:ASN:CG	1.88	0.77
1:A:1097:ILE:HD12	1:A:1105:LEU:HD13	1.65	0.77
1:A:1144:ALA:CB	1:A:1187:VAL:HG22	2.12	0.77
1:A:1192:ILE:HD13	1:A:1193:LEU:N	1.99	0.77
1:B:424:ASN:H	1:B:598:ASP:HA	1.49	0.77
1:B:1100:LEU:HD21	1:B:1104:TRP:CZ3	2.20	0.77
1:A:217:ILE:CD1	1:A:218:SER:H	1.95	0.77
1:A:361:VAL:HG12	1:A:364:ILE:HD12	1.66	0.77
1:A:450:ASP:CG	1:A:451:GLY:H	1.88	0.77
1:A:857:LEU:HD11	1:A:977:ILE:CA	2.15	0.77
1:B:694:TRP:O	1:B:697:LEU:N	2.16	0.77
1:A:288:ALA:HA	1:A:291:ALA:CB	2.15	0.77
1:A:1081:ARG:CZ	1:A:1098:LYS:O	2.33	0.77
1:B:964:LEU:HD13	1:B:965:MET:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:61:GLY:CA	1:A:194:ALA:HB2	2.16	0.76
1:A:523:ARG:CD	1:A:524:GLY:H	1.97	0.76
1:B:857:LEU:HD11	1:B:976:ALA:CB	2.14	0.76
1:A:212:LEU:HD12	1:A:215:LEU:HB2	1.64	0.76
1:A:995:ALA:O	1:A:997:ALA:N	2.18	0.76
1:A:1260:LYS:HD2	1:A:1260:LYS:H	1.50	0.76
1:B:1000:SER:O	1:B:1004:ILE:HG22	1.84	0.76
1:A:907:THR:N	1:A:908:ARG:NH1	2.32	0.76
1:A:908:ARG:CD	1:A:909:GLU:N	2.45	0.76
1:B:508:PHE:O	1:B:512:LEU:HB3	1.85	0.76
1:B:1262:ILE:H	1:B:1262:ILE:HD12	1.48	0.76
1:A:201:ILE:O	1:A:205:THR:HB	1.85	0.76
1:A:684:LEU:O	1:A:686:GLU:OE1	2.04	0.76
1:A:797:VAL:HG21	1:A:1013:GLU:HG3	1.67	0.76
1:B:548:LEU:HD22	1:B:550:LEU:CD1	2.15	0.76
1:B:908:ARG:O	1:B:911:LYS:HB3	1.84	0.76
1:A:509:ILE:HD12	1:A:510:MET:N	2.00	0.76
1:A:1031:VAL:HB	1:A:1056:VAL:HG12	1.67	0.76
1:A:1265:SER:HA	1:A:1268:SER:OG	1.86	0.76
1:B:38:MET:SD	1:B:362:PHE:CE1	2.79	0.76
1:B:318:ILE:HD11	1:B:325:GLY:N	2.01	0.76
1:A:498:LYS:NZ	1:A:502:GLU:OE2	2.18	0.76
1:A:799:TRP:HD1	1:A:800:PHE:CE1	2.03	0.76
1:A:906:LEU:C	1:A:908:ARG:HE	1.88	0.76
1:A:1110:GLY:HA3	1:A:1193:LEU:CD2	2.16	0.76
1:B:424:ASN:HB2	1:B:598:ASP:OD1	1.85	0.76
1:A:208:TRP:C	1:A:209:LYS:HD3	2.05	0.76
1:A:210:LEU:HD23	1:A:317:VAL:CG1	2.15	0.76
1:A:618:TYR:O	1:A:622:VAL:HG23	1.85	0.76
1:A:688:VAL:CB	1:A:1006:ARG:HH12	1.98	0.76
1:A:611:LEU:HB3	1:A:618:TYR:HB3	1.67	0.76
1:A:901:ARG:HD3	1:A:901:ARG:N	1.99	0.76
1:B:1260:LYS:HD2	1:B:1260:LYS:H	1.50	0.76
1:B:129:VAL:HG22	1:B:938:PHE:HD1	1.50	0.76
1:B:153:ASN:ND2	1:B:376:LYS:HE2	2.00	0.76
1:B:1060:GLN:HB2	1:B:1237:ASP:OD1	1.85	0.76
1:A:208:TRP:HB3	1:A:209:LYS:HZ2	1.49	0.75
1:A:1037:VAL:HG22	1:A:1087:ALA:HB3	1.68	0.75
1:B:964:LEU:CD2	1:B:965:MET:H	1.94	0.75
1:A:388:LEU:HB2	1:A:413:VAL:HG12	1.65	0.75
1:A:478:THR:CG2	1:A:479:THR:H	1.91	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1091:PHE:HE1	1:A:1096:GLU:CA	1.99	0.75
1:B:374:PHE:HD1	1:B:375:SER:H	1.34	0.75
1:B:467:GLY:HA3	1:B:545:PRO:HG3	1.66	0.75
1:B:1099:GLN:HG2	1:B:1099:GLN:O	1.85	0.75
1:B:1150:ILE:HA	1:B:1179:ARG:HD3	1.68	0.75
1:A:537:ILE:O	1:A:541:LEU:HB2	1.86	0.75
1:B:151:ILE:CD1	1:B:167:LEU:HD11	2.14	0.75
1:B:1063:ALA:HB2	1:B:1236:ALA:CB	2.16	0.75
1:A:270:LEU:HD13	1:A:789:PHE:CZ	2.21	0.75
1:A:549:LEU:HG	1:A:579:ILE:HG22	1.69	0.75
1:A:1144:ALA:HA	1:A:1186:LEU:CD1	2.16	0.75
1:A:1214:LEU:HD23	1:A:1214:LEU:O	1.86	0.75
1:B:157:GLY:HA2	1:B:160:ASP:CG	2.06	0.75
1:B:498:LYS:HE2	1:B:498:LYS:C	2.07	0.75
1:A:958:TYR:O	1:A:966:THR:CG2	2.31	0.75
1:B:959:LEU:HB3	1:B:964:LEU:HB3	1.67	0.75
1:B:1072:LYS:O	1:B:1076:VAL:HG23	1.86	0.75
1:B:132:TRP:CD1	1:B:132:TRP:C	2.57	0.75
1:B:982:MET:HG2	1:B:983:ALA:N	2.01	0.75
1:B:163:ASP:C	1:B:165:GLY:H	1.91	0.75
1:B:694:TRP:O	1:B:697:LEU:HG	1.86	0.75
1:A:1252:THR:HG22	1:A:1255:GLN:OE1	1.87	0.75
1:B:713:CYS:O	1:B:716:ILE:HG13	1.85	0.75
1:B:857:LEU:HD23	1:B:858:LEU:N	2.02	0.75
1:B:907:THR:N	1:B:908:ARG:HE	1.85	0.75
1:A:151:ILE:CD1	1:A:167:LEU:HD11	2.17	0.74
1:A:304:ALA:HB2	1:A:758:LEU:HD22	1.68	0.74
1:A:685:ASP:O	1:A:686:GLU:HG3	1.86	0.74
1:A:1019:THR:OG1	1:A:1101:ASN:HA	1.86	0.74
1:A:1116:PRO:HB3	1:A:1178:GLN:OE1	1.87	0.74
1:B:186:ILE:HG13	1:B:187:GLY:H	1.52	0.74
1:B:1041:PRO:O	1:B:1042:THR:HB	1.86	0.74
1:B:1112:VAL:HG21	1:B:1182:ILE:HD12	1.68	0.74
1:B:1150:ILE:O	1:B:1154:ILE:HD13	1.87	0.74
1:A:72:GLY:HA3	1:A:329:THR:OG1	1.87	0.74
1:B:240:LEU:O	1:B:243:TYR:HB3	1.87	0.74
1:B:512:LEU:CD1	1:B:518:THR:HG21	2.09	0.74
1:B:699:LEU:O	1:B:703:GLU:OE1	2.04	0.74
1:B:1090:VAL:HG13	1:B:1097:ILE:O	1.87	0.74
1:B:371:ILE:C	1:B:373:SER:H	1.87	0.74
1:B:1025:ASN:O	1:B:1027:LEU:HD23	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1037:VAL:CG2	1:B:1087:ALA:HB3	2.17	0.74
1:B:1062:LEU:HD12	1:B:1224:ILE:HG23	1.69	0.74
1:A:297:ALA:HB1	1:A:763:PHE:CD2	2.23	0.74
1:A:909:GLU:HA	1:A:909:GLU:OE2	1.85	0.74
1:B:892:ILE:HD12	1:B:916:TYR:CE1	2.22	0.74
1:B:1167:ASP:C	1:B:1168:LYS:HD2	2.08	0.74
1:A:219:PRO:O	1:A:223:LEU:HG	1.88	0.74
1:A:257:ILE:CG1	1:A:800:PHE:HE2	1.97	0.74
1:A:492:THR:HB	1:A:495:GLU:OE2	1.86	0.74
1:A:508:PHE:CE1	1:A:509:ILE:HG23	2.22	0.74
1:B:799:TRP:O	1:B:803:PRO:HB3	1.87	0.74
1:B:1015:ASP:N	1:B:1017:TYR:CE1	2.53	0.74
1:B:1091:PHE:HE1	1:B:1096:GLU:CA	2.01	0.74
1:A:585:LEU:HA	1:A:588:VAL:CG2	2.17	0.74
1:A:858:LEU:HD12	1:A:859:ALA:N	2.02	0.74
1:B:569:LEU:O	1:B:572:ALA:HB3	1.88	0.74
1:B:969:ASN:N	1:B:969:ASN:HD22	1.86	0.74
1:A:282:ARG:CA	1:A:282:ARG:HH11	2.01	0.74
1:A:1023:LYS:HB2	1:A:1026:MET:HG3	1.68	0.74
1:B:253:VAL:C	1:B:254:LEU:HD13	2.08	0.74
1:B:848:ILE:HD12	1:B:848:ILE:O	1.87	0.74
1:B:851:TRP:N	1:B:854:THR:OG1	2.21	0.74
1:A:607:ASN:HB3	1:A:610:GLU:HG3	1.70	0.74
1:B:1252:THR:CG2	1:B:1255:GLN:HB2	2.15	0.74
1:A:39:PHE:HE2	1:A:358:ALA:HB3	1.51	0.74
1:A:167:LEU:HD23	1:A:168:ASN:N	2.03	0.74
1:A:918:GLN:O	1:A:921:GLN:HB3	1.87	0.74
1:B:261:ILE:HG23	1:B:1106:ARG:NH1	2.03	0.74
1:B:306:TYR:O	1:B:310:PHE:HB2	1.87	0.74
1:A:85:SER:HA	1:A:963:GLN:OE1	1.86	0.74
1:A:969:ASN:HD22	1:A:969:ASN:N	1.85	0.74
1:A:1090:VAL:O	1:A:1091:PHE:HD1	1.70	0.74
1:B:720:LEU:HD22	1:B:761:ILE:HG22	1.70	0.74
1:B:727:ILE:HD12	1:B:754:LEU:HG	1.69	0.74
1:B:1252:THR:HG22	1:B:1255:GLN:OE1	1.87	0.74
1:A:303:TYR:O	1:A:306:TYR:CD2	2.41	0.73
1:B:374:PHE:CE1	1:B:376:LYS:HB2	2.23	0.73
1:B:1037:VAL:HG22	1:B:1087:ALA:HB3	1.70	0.73
1:A:381:PRO:HB3	1:A:452:GLN:OE1	1.88	0.73
1:A:697:LEU:C	1:A:700:ASN:HB2	2.07	0.73
1:A:803:PRO:O	1:A:804:LYS:HD3	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:390:PHE:CE1	1:B:432:THR:HB	2.17	0.73
1:B:496:ILE:H	1:B:496:ILE:HD12	1.52	0.73
1:B:1097:ILE:HD11	1:B:1100:LEU:CD2	2.18	0.73
1:B:1118:LEU:N	1:B:1118:LEU:HD12	2.04	0.73
1:A:721:GLN:HB3	1:A:722:PRO:HD3	1.69	0.73
1:A:1004:ILE:HD13	1:A:1004:ILE:O	1.87	0.73
1:A:1028:GLU:HB2	1:A:1093:ASP:OD1	1.89	0.73
1:A:1124:ALA:HB2	1:A:1161:TYR:HB3	1.69	0.73
1:B:366:ASP:O	1:B:367:ASN:O	2.05	0.73
1:B:1071:GLY:O	1:B:1075:VAL:HG23	1.88	0.73
1:B:102:LYS:HA	1:B:102:LYS:HE3	1.70	0.73
1:B:362:PHE:HA	1:B:365:ILE:HD12	1.68	0.73
1:B:830:ALA:HB1	1:B:990:PHE:CE2	2.19	0.73
1:B:909:GLU:OE2	1:B:909:GLU:CA	2.36	0.73
1:A:550:LEU:HB2	1:A:580:VAL:HG23	1.69	0.73
1:A:573:ARG:HD2	1:A:578:THR:HG21	1.70	0.73
1:B:597:PHE:O	1:B:598:ASP:HB2	1.87	0.73
1:A:765:THR:HG23	1:A:766:PHE:HD1	1.52	0.73
1:B:765:THR:C	1:B:769:GLN:NE2	2.42	0.73
1:B:918:GLN:O	1:B:921:GLN:HB3	1.87	0.73
1:A:361:VAL:O	1:A:365:ILE:CG1	2.34	0.73
1:A:1203:ASP:O	1:A:1207:GLU:HG3	1.88	0.73
1:B:1039:ASN:CB	1:B:1047:PRO:HA	2.16	0.73
1:A:188:MET:HB2	1:A:347:ASN:HB3	1.69	0.73
1:A:385:GLN:NE2	1:A:386:GLY:N	2.35	0.73
1:A:388:LEU:HD11	1:A:547:ILE:HD12	1.71	0.73
1:A:436:MET:HE1	1:A:449:ILE:HD13	1.69	0.73
1:A:1039:ASN:CB	1:A:1047:PRO:HA	2.15	0.73
1:B:140:ILE:HG13	1:B:179:ASN:HD22	1.53	0.73
1:B:266:GLN:O	1:B:267:LYS:NZ	2.21	0.73
1:B:306:TYR:CG	1:B:307:ALA:N	2.57	0.73
1:B:1169:GLY:O	1:B:1171:GLN:HG2	1.89	0.73
1:A:213:VAL:O	1:A:217:ILE:HG13	1.88	0.73
1:A:435:LEU:C	1:A:437:GLN:H	1.91	0.73
1:A:157:GLY:HA2	1:A:160:ASP:CG	2.09	0.73
1:A:186:ILE:HG13	1:A:187:GLY:H	1.54	0.73
1:B:718:GLY:HA2	1:B:837:ALA:HB2	1.69	0.73
1:A:433:VAL:HG13	1:A:549:LEU:HD23	1.69	0.72
1:A:776:ALA:O	1:A:780:LEU:HB2	1.89	0.72
1:B:885:GLU:HB3	1:B:923:PRO:HG3	1.71	0.72
1:B:1011:THR:N	1:B:1012:PRO:HD2	2.01	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1046:ILE:CG2	1:B:1047:PRO:HD2	2.17	0.72
1:B:388:LEU:HB2	1:B:413:VAL:HG12	1.71	0.72
1:B:537:ILE:O	1:B:541:LEU:HB2	1.89	0.72
1:B:725:SER:HB3	1:B:975:SER:OG	1.89	0.72
1:B:1249:GLU:O	1:B:1250:HIS:HB3	1.88	0.72
1:A:798:SER:CA	1:A:801:ASP:HB2	2.19	0.72
1:A:961:THR:O	1:A:962:GLN:HB3	1.87	0.72
1:B:103:LEU:HD23	1:B:961:THR:OG1	1.89	0.72
1:B:199:GLY:O	1:B:203:GLY:HA3	1.89	0.72
1:B:786:TYR:HE2	1:B:790:LYS:NZ	1.85	0.72
1:B:1080:GLU:OE2	1:B:1109:LEU:HD12	1.89	0.72
1:A:1063:ALA:HB2	1:A:1236:ALA:CB	2.19	0.72
1:B:421:LEU:HD13	1:B:579:ILE:HD11	1.72	0.72
1:B:257:ILE:HG12	1:B:800:PHE:HE2	1.52	0.72
1:B:282:ARG:C	1:B:286:LYS:HD3	2.09	0.72
1:B:712:PHE:O	1:B:715:ILE:HG12	1.90	0.72
1:B:901:ARG:HD3	1:B:901:ARG:N	1.99	0.72
1:B:1131:ASP:HB3	1:B:1188:ARG:NE	2.03	0.72
1:A:362:PHE:HA	1:A:365:ILE:CB	2.19	0.72
1:A:395:PHE:HA	1:A:443:LEU:CB	2.19	0.72
1:A:797:VAL:O	1:A:801:ASP:OD1	2.06	0.72
1:B:282:ARG:CA	1:B:282:ARG:HH11	2.02	0.72
1:B:387:ASN:HD22	1:B:414:LYS:CA	2.00	0.72
1:B:697:LEU:O	1:B:700:ASN:CB	2.36	0.72
1:A:740:PRO:HG2	1:A:741:PRO:CD	2.19	0.72
1:A:1055:GLU:HG2	1:A:1056:VAL:N	2.05	0.72
1:B:318:ILE:HG13	1:B:325:GLY:H	1.55	0.72
1:A:546:LYS:O	1:A:577:THR:HG23	1.89	0.72
1:A:791:SER:HA	1:A:1010:LYS:HE3	1.71	0.72
1:A:1022:LEU:HG	1:A:1104:TRP:HE1	1.53	0.72
1:B:289:ILE:C	1:B:291:ALA:H	1.91	0.72
1:B:290:THR:HA	1:B:293:ILE:HB	1.71	0.72
1:B:690:PRO:HG2	1:B:1006:ARG:CZ	2.19	0.72
1:A:1137:SER:CB	1:A:1140:GLU:HB2	2.20	0.72
1:B:972:LEU:O	1:B:975:SER:HB2	1.90	0.72
1:B:1005:ILE:O	1:B:1009:GLU:HG3	1.90	0.72
1:B:1039:ASN:HB2	1:B:1047:PRO:HG3	1.72	0.72
1:A:133:CYS:O	1:A:134:LEU:C	2.28	0.72
1:A:727:ILE:HG23	1:A:754:LEU:HG	1.71	0.72
1:A:1037:VAL:CG2	1:A:1087:ALA:HB3	2.19	0.72
1:B:414:LYS:H	1:B:414:LYS:HD2	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:765:THR:C	1:B:769:GLN:HE21	1.92	0.72
1:A:283:LEU:CA	1:A:286:LYS:HB2	2.20	0.71
1:B:296:GLY:HA3	1:B:766:PHE:CE2	2.25	0.71
1:A:1091:PHE:HE1	1:A:1096:GLU:CG	2.02	0.71
1:B:849:TYR:HD1	1:B:854:THR:HA	1.55	0.71
1:B:905:SER:CB	1:B:908:ARG:HH12	2.03	0.71
1:A:110:TYR:O	1:A:113:TYR:CD2	2.43	0.71
1:A:697:LEU:HB3	1:A:828:ARG:NH2	2.05	0.71
1:A:1132:ASN:OD1	1:A:1134:ARG:HG2	1.90	0.71
1:B:438:ARG:HG3	1:B:438:ARG:NH1	2.04	0.71
1:A:609:ASP:O	1:A:613:ARG:HB2	1.89	0.71
1:A:1236:ALA:HB3	1:A:1239:ILE:CD1	2.20	0.71
1:B:60:HIS:O	1:B:63:ALA:HB3	1.89	0.71
1:B:318:ILE:HG12	1:B:324:ILE:H	1.55	0.71
1:B:1153:PHE:CZ	1:B:1176:GLN:HG2	2.26	0.71
1:A:33:VAL:N	1:A:36:LEU:HD11	2.04	0.71
1:A:208:TRP:O	1:A:209:LYS:HE2	1.90	0.71
1:A:318:ILE:HG23	1:A:735:PHE:HZ	1.55	0.71
1:A:611:LEU:HD23	1:A:618:TYR:HB2	1.71	0.71
1:A:1011:THR:O	1:A:1011:THR:HG23	1.91	0.71
1:B:286:LYS:HE2	1:B:778:GLU:HG2	1.72	0.71
1:B:422:VAL:HG22	1:B:595:ALA:O	1.90	0.71
1:B:1183:ALA:O	1:B:1187:VAL:HG23	1.90	0.71
1:A:313:GLY:O	1:A:317:VAL:HG23	1.90	0.71
1:A:315:SER:HB3	1:A:747:ASN:CG	2.10	0.71
1:A:470:SER:HB2	1:A:471:GLN:OE1	1.91	0.71
1:A:597:PHE:O	1:A:598:ASP:HB2	1.90	0.71
1:A:996:LYS:HD3	1:A:996:LYS:N	2.06	0.71
1:B:213:VAL:O	1:B:217:ILE:HG13	1.89	0.71
1:B:970:VAL:HG23	1:B:971:LEU:HD22	1.73	0.71
1:B:1129:TYR:HD2	1:B:1184:ARG:HB2	1.55	0.71
1:B:1147:GLU:OE1	1:B:1216:LYS:HB2	1.91	0.71
1:A:318:ILE:HG23	1:A:735:PHE:CZ	2.26	0.71
1:A:1252:THR:CG2	1:A:1255:GLN:HB2	2.19	0.71
1:A:358:ALA:C	1:A:362:PHE:HB2	2.11	0.71
1:A:520:VAL:HG12	1:A:523:ARG:O	1.90	0.71
1:B:39:PHE:HE2	1:B:358:ALA:HB3	1.54	0.71
1:B:210:LEU:HG	1:B:322:TYR:CD2	2.24	0.71
1:B:816:ASN:O	1:B:820:GLN:HG2	1.90	0.71
1:B:855:LEU:O	1:B:858:LEU:HG	1.91	0.71
1:B:1096:GLU:HB2	1:B:1099:GLN:NE2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1192:ILE:HD13	1:B:1193:LEU:H	1.56	0.71
1:A:976:ALA:HA	1:A:979:PHE:CG	2.24	0.71
1:A:1181:ALA:O	1:A:1184:ARG:HB3	1.90	0.71
1:B:271:GLU:HG3	1:B:786:TYR:CE1	2.26	0.71
1:A:892:ILE:HD12	1:A:916:TYR:CE1	2.24	0.71
1:B:1218:ARG:NH2	1:B:1235:ASN:HD22	1.88	0.71
1:A:289:ILE:C	1:A:291:ALA:H	1.92	0.70
1:A:993:ASP:C	1:A:996:LYS:HZ1	1.94	0.70
1:B:201:ILE:HG22	1:B:202:ILE:N	2.06	0.70
1:B:429:LYS:HD2	1:B:430:SER:H	1.54	0.70
1:B:818:ALA:O	1:B:821:VAL:HG22	1.91	0.70
1:B:845:ILE:CG2	1:B:972:LEU:HD23	2.21	0.70
1:A:803:PRO:C	1:A:804:LYS:HD3	2.10	0.70
1:B:300:LEU:O	1:B:303:TYR:HB3	1.91	0.70
1:B:492:THR:O	1:B:495:GLU:N	2.24	0.70
1:B:1062:LEU:C	1:B:1062:LEU:HD13	2.11	0.70
1:B:1104:TRP:O	1:B:1107:ALA:N	2.20	0.70
1:B:1121:CYS:HB3	1:B:1125:GLU:HB2	1.72	0.70
1:B:1137:SER:CB	1:B:1140:GLU:HB2	2.21	0.70
1:A:792:MET:HE2	1:A:810:LEU:HD22	1.73	0.70
1:A:905:SER:HB2	1:A:908:ARG:NH1	2.05	0.70
1:A:1150:ILE:O	1:A:1154:ILE:HD13	1.91	0.70
1:B:123:ILE:O	1:B:127:ILE:HG12	1.90	0.70
1:B:727:ILE:HG23	1:B:754:LEU:HG	1.73	0.70
1:B:827:SER:HG	1:B:994:TYR:HD2	1.39	0.70
1:A:885:GLU:HB3	1:A:923:PRO:HG3	1.73	0.70
1:A:1013:GLU:C	1:A:1014:ILE:HG12	2.10	0.70
1:B:207:GLY:HA3	1:B:211:THR:N	2.06	0.70
1:B:284:GLY:C	1:B:286:LYS:H	1.94	0.70
1:B:726:VAL:HA	1:B:729:SER:OG	1.91	0.70
1:B:1020:GLN:CD	1:B:1020:GLN:N	2.44	0.70
1:A:72:GLY:HA2	1:A:326:GLN:NE2	2.06	0.70
1:A:206:ARG:C	1:A:211:THR:HB	2.10	0.70
1:A:797:VAL:O	1:A:799:TRP:N	2.25	0.70
1:A:1129:TYR:HD2	1:A:1184:ARG:HB2	1.55	0.70
1:A:1131:ASP:HB3	1:A:1188:ARG:NE	2.06	0.70
1:B:211:THR:HA	1:B:214:ILE:HD12	1.73	0.70
1:B:430:SER:O	1:B:433:VAL:HB	1.92	0.70
1:B:838:ASN:C	1:B:838:ASN:ND2	2.39	0.70
1:A:306:TYR:CG	1:A:307:ALA:N	2.59	0.70
1:A:527:LEU:HD23	1:A:527:LEU:H	1.55	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:MET:CE	1:A:810:LEU:HD22	2.21	0.70
1:A:911:LYS:O	1:A:914:THR:HB	1.91	0.70
1:B:128:GLN:HE21	1:B:186:ILE:HD11	1.55	0.70
1:A:201:ILE:HG22	1:A:202:ILE:N	2.06	0.70
1:A:706:TYR:O	1:A:707:PHE:CD2	2.44	0.70
1:A:853:LEU:HG	1:A:973:VAL:CG2	2.21	0.70
1:B:421:LEU:CD1	1:B:579:ILE:HD11	2.22	0.70
1:B:727:ILE:CG2	1:B:754:LEU:HG	2.22	0.70
1:A:200:PHE:O	1:A:201:ILE:C	2.30	0.70
1:A:434:GLN:HE21	1:A:439:LEU:HG	1.55	0.70
1:A:697:LEU:CA	1:A:700:ASN:HB2	2.22	0.70
1:B:362:PHE:HA	1:B:365:ILE:CB	2.22	0.70
1:B:484:ILE:HG21	1:B:496:ILE:HG13	1.74	0.70
1:B:721:GLN:HB3	1:B:722:PRO:HD3	1.74	0.70
1:B:1121:CYS:O	1:B:1165:VAL:HG13	1.92	0.70
1:A:726:VAL:HA	1:A:729:SER:OG	1.91	0.70
1:B:795:GLN:NE2	1:B:1012:PRO:HG3	2.06	0.70
1:A:239:GLU:CB	1:A:285:ILE:HG12	2.21	0.70
1:A:850:GLY:O	1:A:852:GLN:HG2	1.92	0.70
1:B:405:ILE:H	1:B:405:ILE:CD1	1.95	0.70
1:A:140:ILE:HG13	1:A:179:ASN:ND2	2.06	0.69
1:A:225:ALA:HB2	1:A:302:ILE:HG21	1.73	0.69
1:A:508:PHE:O	1:A:512:LEU:HB3	1.92	0.69
1:A:852:GLN:O	1:A:856:LEU:HB2	1.92	0.69
1:A:879:ALA:O	1:A:883:LYS:HG2	1.92	0.69
1:A:1148:ALA:O	1:A:1149:ASN:HB2	1.92	0.69
1:B:453:ASP:O	1:B:456:THR:HG23	1.91	0.69
1:B:765:THR:HG23	1:B:766:PHE:HD1	1.56	0.69
1:B:1218:ARG:C	1:B:1220:GLY:H	1.94	0.69
1:A:207:GLY:HA3	1:A:211:THR:H	1.55	0.69
1:A:311:TRP:NE1	1:A:754:LEU:HD13	2.07	0.69
1:A:422:VAL:HG22	1:A:595:ALA:O	1.92	0.69
1:A:708:VAL:O	1:A:711:ILE:HG23	1.92	0.69
1:A:1019:THR:O	1:A:1100:LEU:HA	1.92	0.69
1:A:467:GLY:HA3	1:A:545:PRO:HG3	1.73	0.69
1:A:496:ILE:O	1:A:500:VAL:HG22	1.93	0.69
1:A:543:ARG:HH21	1:A:907:THR:CG2	2.04	0.69
1:A:837:ALA:HB1	1:A:982:MET:HE2	1.72	0.69
1:A:1096:GLU:O	1:A:1099:GLN:N	2.25	0.69
1:A:1249:GLU:O	1:A:1250:HIS:HB3	1.92	0.69
1:B:310:PHE:CE2	1:B:331:PHE:HB3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:35:VAL:CG2	1:B:36:LEU:HD23	2.22	0.69
1:A:158:TRP:CZ2	1:A:900:PHE:HB2	2.27	0.69
1:B:1056:VAL:CG2	1:B:1062:LEU:HB2	2.23	0.69
1:B:1011:THR:OG1	1:B:1012:PRO:HD3	1.92	0.69
1:B:1123:ILE:HD12	1:B:1124:ALA:N	2.08	0.69
1:A:519:LEU:HD13	1:A:519:LEU:N	2.08	0.69
1:A:604:GLU:OE1	1:A:616:GLY:HA3	1.93	0.69
1:A:845:ILE:CG2	1:A:972:LEU:HD23	2.23	0.69
1:A:857:LEU:HD12	1:A:977:ILE:HG12	1.73	0.69
1:B:512:LEU:HD12	1:B:513:PRO:CD	2.22	0.69
1:B:585:LEU:HA	1:B:588:VAL:CG2	2.22	0.69
1:A:122:LEU:HD12	1:A:939:SER:HB2	1.72	0.69
1:A:216:ALA:O	1:A:220:VAL:HG23	1.92	0.69
1:A:418:THR:HB	1:A:578:THR:HG23	1.75	0.69
1:A:711:ILE:O	1:A:711:ILE:HG12	1.92	0.69
1:B:132:TRP:CD1	1:B:133:CYS:N	2.61	0.69
1:B:798:SER:CA	1:B:801:ASP:HB2	2.21	0.69
1:B:1091:PHE:CE1	1:B:1096:GLU:CG	2.74	0.69
1:B:163:ASP:O	1:B:165:GLY:N	2.25	0.69
1:B:164:VAL:HG12	1:B:164:VAL:O	1.92	0.69
1:B:607:ASN:HB3	1:B:610:GLU:HG3	1.74	0.69
1:B:611:LEU:HD23	1:B:618:TYR:HB2	1.73	0.69
1:A:242:ALA:O	1:A:281:LYS:NZ	2.26	0.69
1:B:218:SER:HB2	1:B:219:PRO:CD	2.23	0.69
1:B:318:ILE:HG23	1:B:735:PHE:CZ	2.28	0.69
1:B:375:SER:C	1:B:376:LYS:CD	2.55	0.69
1:B:1042:THR:C	1:B:1044:PRO:HD2	2.14	0.69
1:A:1150:ILE:HA	1:A:1179:ARG:HD3	1.74	0.68
1:B:415:SER:O	1:B:417:GLN:N	2.26	0.68
1:B:470:SER:HB2	1:B:471:GLN:OE1	1.93	0.68
1:B:618:TYR:O	1:B:622:VAL:HG23	1.92	0.68
1:B:911:LYS:O	1:B:914:THR:HB	1.93	0.68
1:B:1255:GLN:O	1:B:1258:ALA:HB3	1.93	0.68
1:A:37:THR:O	1:A:40:ARG:N	2.26	0.68
1:A:103:LEU:HD22	1:A:960:VAL:H	1.57	0.68
1:A:697:LEU:O	1:A:700:ASN:CB	2.41	0.68
1:A:1106:ARG:O	1:A:1109:LEU:HD22	1.92	0.68
1:A:1204:THR:OG1	1:A:1205:GLU:N	2.26	0.68
1:B:690:PRO:HG2	1:B:1006:ARG:NH2	2.08	0.68
1:B:717:ASN:O	1:B:720:LEU:HB3	1.92	0.68
1:A:397:TYR:HB3	1:A:398:PRO:HD2	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:899:ASN:O	1:A:901:ARG:N	2.27	0.68
1:B:265:GLY:C	1:B:267:LYS:HG3	2.14	0.68
1:B:411:LEU:HD23	1:B:412:LYS:H	1.54	0.68
1:B:899:ASN:HA	1:B:901:ARG:CZ	2.24	0.68
1:B:1153:PHE:HA	1:B:1157:LEU:CD2	2.21	0.68
1:A:163:ASP:C	1:A:165:GLY:H	1.97	0.68
1:A:424:ASN:H	1:A:598:ASP:HA	1.58	0.68
1:B:995:ALA:H	1:B:996:LYS:NZ	1.91	0.68
1:A:213:VAL:HB	1:A:331:PHE:HZ	1.56	0.68
1:A:573:ARG:HB3	1:A:578:THR:CG2	2.22	0.68
1:A:1104:TRP:O	1:A:1107:ALA:N	2.25	0.68
1:B:283:LEU:CA	1:B:286:LYS:HB2	2.23	0.68
1:B:358:ALA:C	1:B:362:PHE:HB2	2.13	0.68
1:B:768:LEU:HG	1:B:769:GLN:H	1.59	0.68
1:B:1126:ASN:O	1:B:1129:TYR:N	2.25	0.68
1:A:282:ARG:HH11	1:A:282:ARG:HA	1.58	0.68
1:A:549:LEU:HD12	1:A:549:LEU:N	2.09	0.68
1:A:900:PHE:C	1:A:900:PHE:CD1	2.66	0.68
1:B:218:SER:HB2	1:B:219:PRO:HD3	1.74	0.68
1:B:287:LYS:O	1:B:291:ALA:CB	2.42	0.68
1:B:803:PRO:O	1:B:804:LYS:HD3	1.94	0.68
1:A:39:PHE:CE2	1:A:358:ALA:HB3	2.29	0.68
1:A:158:TRP:O	1:A:158:TRP:HD1	1.76	0.68
1:A:214:ILE:CD1	1:A:330:VAL:HG12	2.24	0.68
1:A:1039:ASN:HD22	1:A:1047:PRO:HA	1.57	0.68
1:B:239:GLU:CB	1:B:285:ILE:HG12	2.23	0.68
1:B:375:SER:CA	1:B:376:LYS:HD2	2.23	0.68
1:B:1008:ILE:O	1:B:1010:LYS:HE3	1.93	0.68
1:A:114:TYR:CB	1:A:950:ALA:HB2	2.24	0.68
1:A:430:SER:O	1:A:433:VAL:HB	1.93	0.68
1:A:497:GLU:O	1:A:500:VAL:HG23	1.94	0.68
1:A:1045:SER:O	1:A:1046:ILE:O	2.11	0.68
1:A:1173:SER:H	1:A:1176:GLN:NE2	1.91	0.68
1:B:278:GLU:O	1:B:282:ARG:CG	2.35	0.68
1:B:506:TYR:O	1:B:510:MET:HG2	1.94	0.68
1:B:1202:LEU:O	1:B:1203:ASP:HB3	1.92	0.68
1:A:44:TRP:CD1	1:A:45:LEU:HD22	2.29	0.68
1:A:204:PHE:HA	1:A:211:THR:HG21	1.75	0.68
1:A:253:VAL:C	1:A:254:LEU:HD13	2.13	0.68
1:A:1144:ALA:HB1	1:A:1183:ALA:HB1	1.75	0.68
1:A:1147:GLU:OE1	1:A:1216:LYS:HB2	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:44:TRP:CD1	1:B:45:LEU:HD22	2.29	0.68
1:B:288:ALA:HA	1:B:291:ALA:CB	2.24	0.68
1:B:324:ILE:HD13	1:B:326:GLN:H	1.57	0.68
1:B:342:GLY:O	1:B:346:PRO:HD2	1.94	0.68
1:B:797:VAL:HG12	1:B:798:SER:N	2.05	0.68
1:A:725:SER:HB3	1:A:975:SER:HB3	1.74	0.68
1:A:846:SER:O	1:A:849:TYR:HB2	1.93	0.68
1:A:1022:LEU:O	1:A:1023:LYS:C	2.32	0.68
1:B:787:MET:HB3	1:B:1008:ILE:CD1	2.24	0.68
1:B:798:SER:OG	1:B:1041:PRO:HG2	1.92	0.68
1:A:36:LEU:HG	1:A:37:THR:H	1.59	0.67
1:A:362:PHE:HA	1:A:365:ILE:HD12	1.76	0.67
1:A:741:PRO:O	1:A:742:GLU:HB2	1.95	0.67
1:B:395:PHE:HA	1:B:443:LEU:CB	2.22	0.67
1:B:1011:THR:OG1	1:B:1012:PRO:CD	2.41	0.67
1:A:282:ARG:C	1:A:286:LYS:HD3	2.15	0.67
1:A:376:LYS:CD	1:A:377:SER:N	2.48	0.67
1:A:521:GLY:HA3	1:A:526:GLN:OE1	1.94	0.67
1:A:1057:LYS:H	1:A:1057:LYS:HD2	1.58	0.67
1:B:133:CYS:O	1:B:134:LEU:C	2.32	0.67
1:B:379:HIS:CD2	1:B:380:LYS:H	2.12	0.67
1:B:1192:ILE:HA	1:B:1222:THR:O	1.95	0.67
1:A:942:GLN:O	1:A:945:MET:CB	2.34	0.67
1:A:1179:ARG:NH2	1:A:1209:VAL:HG11	2.09	0.67
1:A:1266:MET:O	1:A:1269:VAL:HG12	1.94	0.67
1:B:209:LYS:C	1:B:212:LEU:HB3	2.15	0.67
1:B:519:LEU:HD13	1:B:519:LEU:N	2.07	0.67
1:B:543:ARG:HG2	1:B:543:ARG:HH11	1.58	0.67
1:A:765:THR:CG2	1:A:766:PHE:HD1	2.08	0.67
1:A:1118:LEU:HB3	1:A:1129:TYR:OH	1.94	0.67
1:B:33:VAL:HA	1:B:37:THR:HB	1.77	0.67
1:B:459:VAL:O	1:B:462:LEU:N	2.27	0.67
1:B:520:VAL:HG12	1:B:523:ARG:O	1.94	0.67
1:B:797:VAL:CG2	1:B:1013:GLU:HG2	2.25	0.67
1:B:1063:ALA:HB3	1:B:1239:ILE:HA	1.76	0.67
1:B:1181:ALA:O	1:B:1184:ARG:HB3	1.94	0.67
1:A:202:ILE:HG12	1:A:333:SER:OG	1.94	0.67
1:A:251:GLU:OE2	1:A:811:THR:HB	1.95	0.67
1:B:61:GLY:CA	1:B:194:ALA:HB2	2.24	0.67
1:B:158:TRP:CD1	1:B:158:TRP:O	2.48	0.67
1:B:431:THR:O	1:B:435:LEU:HD22	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:732:VAL:HG23	1:B:733:GLY:N	2.10	0.67
1:A:35:VAL:CG1	1:A:359:TYR:CE2	2.70	0.67
1:A:286:LYS:C	1:A:289:ILE:HB	2.13	0.67
1:A:393:ILE:HD13	1:A:409:LEU:O	1.93	0.67
1:A:725:SER:HB3	1:A:975:SER:OG	1.95	0.67
1:A:907:THR:N	1:A:908:ARG:HE	1.93	0.67
1:A:1129:TYR:CD2	1:A:1184:ARG:HB2	2.30	0.67
1:B:765:THR:HG23	1:B:766:PHE:N	2.09	0.67
1:B:843:ILE:O	1:B:846:SER:HB2	1.93	0.67
1:B:1031:VAL:HB	1:B:1056:VAL:HG12	1.77	0.67
1:B:1097:ILE:CD1	1:B:1100:LEU:CB	2.72	0.67
1:A:431:THR:HA	1:A:434:GLN:HB2	1.76	0.67
1:A:799:TRP:HD1	1:A:800:PHE:HE1	1.42	0.67
1:A:975:SER:O	1:A:978:VAL:HG12	1.93	0.67
1:B:609:ASP:O	1:B:613:ARG:HB2	1.95	0.67
1:B:1055:GLU:HG2	1:B:1056:VAL:N	2.10	0.67
1:A:114:TYR:HB3	1:A:950:ALA:HB2	1.76	0.67
1:A:1043:ARG:N	1:A:1044:PRO:HD2	2.09	0.67
1:B:71:PHE:O	1:B:74:MET:HG2	1.95	0.67
1:B:167:LEU:HD23	1:B:168:ASN:N	2.10	0.67
1:B:214:ILE:HD11	1:B:330:VAL:CG1	2.25	0.67
1:B:221:LEU:CD1	1:B:306:TYR:HA	2.24	0.67
1:A:705:PRO:O	1:A:706:TYR:HB3	1.94	0.67
1:A:718:GLY:CA	1:A:837:ALA:CB	2.70	0.67
1:A:964:LEU:CD2	1:A:965:MET:H	2.06	0.67
1:B:509:ILE:HD12	1:B:510:MET:N	2.09	0.67
1:B:690:PRO:HG2	1:B:1006:ARG:NH1	2.10	0.67
1:B:1097:ILE:HD13	1:B:1100:LEU:CB	2.24	0.67
1:B:1236:ALA:HB3	1:B:1239:ILE:CD1	2.25	0.67
1:A:45:LEU:HD22	1:A:45:LEU:H	1.60	0.67
1:A:372:ASP:O	1:A:373:SER:HB3	1.94	0.67
1:A:426:GLY:HA2	1:A:429:LYS:HZ1	1.60	0.67
1:A:560:GLU:O	1:A:563:ALA:HB3	1.95	0.67
1:A:1014:ILE:CG2	1:A:1102:VAL:HG11	2.25	0.67
1:A:1066:GLY:H	1:A:1072:LYS:HE2	1.59	0.67
1:A:1169:GLY:O	1:A:1171:GLN:HG2	1.95	0.67
1:A:1183:ALA:O	1:A:1184:ARG:C	2.34	0.67
1:B:424:ASN:CB	1:B:598:ASP:OD1	2.42	0.67
1:B:549:LEU:HG	1:B:579:ILE:CG2	2.24	0.67
1:B:976:ALA:CA	1:B:979:PHE:CD2	2.70	0.67
1:A:102:LYS:HA	1:A:102:LYS:HE3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1116:PRO:O	1:A:1117:ILE:HB	1.96	0.66
1:B:35:VAL:CG1	1:B:359:TYR:CE2	2.68	0.66
1:B:304:ALA:O	1:B:307:ALA:HB3	1.95	0.66
1:B:315:SER:HB3	1:B:747:ASN:ND2	2.10	0.66
1:B:697:LEU:HA	1:B:700:ASN:HB2	1.75	0.66
1:A:209:LYS:C	1:A:212:LEU:HB3	2.14	0.66
1:A:267:LYS:CA	1:A:790:LYS:HE2	2.26	0.66
1:A:358:ALA:O	1:A:362:PHE:HB2	1.96	0.66
1:A:1121:CYS:HB3	1:A:1125:GLU:HB2	1.77	0.66
1:B:303:TYR:O	1:B:306:TYR:CD2	2.46	0.66
1:B:1048:VAL:HG23	1:B:1049:LEU:CD2	2.24	0.66
1:A:129:VAL:CG2	1:A:938:PHE:HD1	2.09	0.66
1:A:428:GLY:O	1:A:429:LYS:C	2.30	0.66
1:A:779:ILE:HD12	1:A:783:ARG:HH21	1.60	0.66
1:B:121:VAL:HG23	1:B:122:LEU:N	2.09	0.66
1:B:242:ALA:O	1:B:281:LYS:NZ	2.28	0.66
1:B:286:LYS:C	1:B:289:ILE:HB	2.15	0.66
1:B:851:TRP:N	1:B:854:THR:HG1	1.94	0.66
1:B:1116:PRO:HB3	1:B:1178:GLN:OE1	1.95	0.66
1:B:1129:TYR:CD2	1:B:1184:ARG:HB2	2.30	0.66
1:A:132:TRP:C	1:A:132:TRP:HD1	1.97	0.66
1:A:390:PHE:HE1	1:A:432:THR:HB	1.58	0.66
1:A:834:GLN:HG3	1:A:835:ASN:N	2.10	0.66
1:A:964:LEU:O	1:A:966:THR:N	2.29	0.66
1:B:311:TRP:CD1	1:B:754:LEU:HD13	2.30	0.66
1:B:421:LEU:HD13	1:B:579:ILE:CD1	2.25	0.66
1:B:912:PHE:O	1:B:914:THR:N	2.28	0.66
1:A:121:VAL:HG23	1:A:122:LEU:N	2.11	0.66
1:A:183:GLY:C	1:A:186:ILE:HG23	2.16	0.66
1:A:311:TRP:CD1	1:A:754:LEU:CD1	2.78	0.66
1:A:479:THR:HA	1:A:518:THR:O	1.96	0.66
1:A:496:ILE:HD12	1:A:496:ILE:H	1.60	0.66
1:A:607:ASN:HB3	1:A:610:GLU:OE2	1.94	0.66
1:A:765:THR:HG23	1:A:766:PHE:N	2.11	0.66
1:A:796:ASP:OD2	1:A:797:VAL:HG23	1.96	0.66
1:A:1153:PHE:O	1:A:1157:LEU:HB2	1.95	0.66
1:B:215:LEU:O	1:B:219:PRO:HD2	1.95	0.66
1:B:219:PRO:O	1:B:223:LEU:HG	1.95	0.66
1:B:267:LYS:HA	1:B:790:LYS:HE2	1.76	0.66
1:B:706:TYR:O	1:B:707:PHE:CD2	2.48	0.66
1:B:792:MET:CE	1:B:810:LEU:HD22	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:900:PHE:C	1:B:900:PHE:CD1	2.68	0.66
1:A:132:TRP:CD1	1:A:133:CYS:N	2.63	0.66
1:A:217:ILE:HD11	1:A:331:PHE:HE2	1.61	0.66
1:A:512:LEU:HD11	1:A:518:THR:CG2	2.12	0.66
1:A:557:LEU:HG	1:A:561:SER:OG	1.96	0.66
1:A:922:ILE:HB	1:A:923:PRO:HD3	1.76	0.66
1:A:982:MET:HG2	1:A:983:ALA:H	1.59	0.66
1:A:1192:ILE:HA	1:A:1222:THR:O	1.94	0.66
1:B:700:ASN:O	1:B:703:GLU:N	2.29	0.66
1:B:897:ILE:HD12	1:B:898:GLU:N	2.10	0.66
1:B:981:ALA:O	1:B:984:VAL:HB	1.95	0.66
1:B:1132:ASN:OD1	1:B:1134:ARG:HG2	1.96	0.66
1:B:1266:MET:O	1:B:1269:VAL:HG12	1.95	0.66
1:A:688:VAL:CG1	1:A:1006:ARG:HH12	2.09	0.66
1:A:751:PHE:CG	1:A:752:SER:N	2.64	0.66
1:A:1062:LEU:HD12	1:A:1224:ILE:CG2	2.25	0.66
1:B:320:LYS:O	1:B:323:SER:OG	2.13	0.66
1:B:705:PRO:O	1:B:706:TYR:HB3	1.96	0.66
1:B:900:PHE:O	1:B:902:THR:N	2.22	0.66
1:B:1123:ILE:O	1:B:1127:ILE:HG13	1.95	0.66
1:A:132:TRP:HD1	1:A:133:CYS:N	1.93	0.66
1:A:715:ILE:HG23	1:A:836:ILE:HG13	1.78	0.66
1:A:918:GLN:HE22	1:B:482:GLU:CG	2.09	0.66
1:B:311:TRP:HD1	1:B:754:LEU:HD13	1.60	0.66
1:B:549:LEU:N	1:B:549:LEU:HD12	2.11	0.66
1:B:919:SER:O	1:B:923:PRO:CD	2.40	0.66
1:B:964:LEU:C	1:B:966:THR:H	1.98	0.66
1:B:975:SER:O	1:B:979:PHE:CD1	2.49	0.66
1:A:103:LEU:HB2	1:A:960:VAL:CG2	2.26	0.66
1:A:128:GLN:HE21	1:A:186:ILE:HD11	1.60	0.66
1:A:132:TRP:CD2	1:A:183:GLY:HA3	2.31	0.66
1:A:178:ILE:HD12	1:A:358:ALA:CB	2.16	0.66
1:A:684:LEU:N	1:A:684:LEU:HD23	2.09	0.66
1:B:394:HIS:HA	1:B:406:LEU:O	1.95	0.66
1:B:834:GLN:HG3	1:B:835:ASN:N	2.09	0.66
1:B:1183:ALA:O	1:B:1184:ARG:C	2.33	0.66
1:A:414:LYS:H	1:A:414:LYS:HD2	1.61	0.66
1:B:132:TRP:CD2	1:B:183:GLY:HA3	2.30	0.66
1:B:773:PHE:HB2	1:B:829:LEU:HD13	1.78	0.66
1:B:1209:VAL:O	1:B:1212:GLU:HB3	1.96	0.66
1:B:1214:LEU:O	1:B:1214:LEU:HD23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1265:SER:HA	1:B:1268:SER:OG	1.94	0.66
1:A:462:LEU:HG	1:A:466:ILE:HD12	1.77	0.65
1:A:1209:VAL:O	1:A:1212:GLU:HB3	1.95	0.65
1:A:1046:ILE:HG22	1:A:1047:PRO:N	2.10	0.65
1:A:1144:ALA:HB2	1:A:1187:VAL:CG2	2.18	0.65
1:B:399:SER:O	1:B:401:LYS:N	2.29	0.65
1:B:859:ALA:O	1:B:863:ILE:HD13	1.96	0.65
1:B:1048:VAL:CG2	1:B:1049:LEU:HD22	2.24	0.65
1:A:826:GLY:O	1:A:829:LEU:HB2	1.96	0.65
1:A:1005:ILE:O	1:A:1009:GLU:HG2	1.96	0.65
1:A:1218:ARG:NH2	1:A:1235:ASN:HD22	1.92	0.65
1:B:132:TRP:HD1	1:B:133:CYS:HA	1.61	0.65
1:B:202:ILE:HG12	1:B:333:SER:OG	1.96	0.65
1:B:1021:GLY:O	1:B:1026:MET:SD	2.54	0.65
1:A:209:LYS:HA	1:A:212:LEU:HB3	1.79	0.65
1:A:1112:VAL:HG21	1:A:1182:ILE:HD12	1.78	0.65
1:A:1262:ILE:HD12	1:A:1262:ILE:N	2.10	0.65
1:B:1057:LYS:HB2	1:B:1060:GLN:NE2	2.12	0.65
1:B:1092:LEU:HD23	1:B:1093:ASP:N	2.11	0.65
1:A:60:HIS:O	1:A:63:ALA:HB3	1.96	0.65
1:A:177:LYS:O	1:A:354:ALA:HB2	1.96	0.65
1:A:694:TRP:O	1:A:697:LEU:CG	2.33	0.65
1:A:1005:ILE:HA	1:A:1008:ILE:HG22	1.78	0.65
1:B:125:ALA:O	1:B:129:VAL:HG23	1.96	0.65
1:B:290:THR:CA	1:B:293:ILE:HB	2.27	0.65
1:B:514:HIS:O	1:B:515:GLN:HB2	1.97	0.65
1:B:857:LEU:HD11	1:B:976:ALA:HB1	1.78	0.65
1:A:612:MET:HA	1:A:619:PHE:HB2	1.78	0.65
1:A:1092:LEU:HD23	1:A:1093:ASP:N	2.10	0.65
1:B:247:GLY:O	1:B:250:ALA:HB3	1.95	0.65
1:B:386:GLY:CA	1:B:450:ASP:HA	2.27	0.65
1:B:916:TYR:N	1:B:916:TYR:CD1	2.62	0.65
1:A:685:ASP:C	1:A:686:GLU:CG	2.65	0.65
1:A:720:LEU:HD22	1:A:761:ILE:HG22	1.76	0.65
1:A:1183:ALA:C	1:A:1187:VAL:HG23	2.17	0.65
1:B:765:THR:CG2	1:B:766:PHE:HD1	2.09	0.65
1:B:1014:ILE:O	1:B:1015:ASP:CB	2.31	0.65
1:B:1091:PHE:CD1	1:B:1095:LYS:O	2.50	0.65
1:A:136:ALA:HB2	1:A:182:ILE:HB	1.79	0.65
1:A:290:THR:HA	1:A:293:ILE:HB	1.78	0.65
1:A:387:ASN:HD22	1:A:414:LYS:CA	2.05	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:900:PHE:O	1:A:902:THR:N	2.26	0.65
1:B:49:TYR:OH	1:B:130:SER:CB	2.43	0.65
1:B:57:ALA:HB1	1:B:190:PHE:HB2	1.79	0.65
1:A:204:PHE:CA	1:A:211:THR:HG21	2.26	0.65
1:A:1097:ILE:CD1	1:A:1105:LEU:HD13	2.27	0.65
1:B:45:LEU:HD22	1:B:45:LEU:H	1.60	0.65
1:B:72:GLY:HA3	1:B:329:THR:OG1	1.97	0.65
1:A:218:SER:HB2	1:A:219:PRO:CD	2.27	0.65
1:A:514:HIS:O	1:A:515:GLN:HB2	1.97	0.65
1:A:693:PHE:CG	1:A:693:PHE:O	2.50	0.65
1:A:711:ILE:O	1:A:714:ALA:HB3	1.95	0.65
1:A:730:LYS:HD3	1:A:750:LEU:HD21	1.79	0.65
1:B:129:VAL:HG22	1:B:938:PHE:CD1	2.31	0.65
1:B:163:ASP:HB2	1:B:166:GLU:CB	2.22	0.65
1:B:361:VAL:O	1:B:365:ILE:CG1	2.37	0.65
1:B:790:LYS:HB2	1:B:794:ARG:NH2	2.12	0.65
1:B:984:VAL:O	1:B:987:VAL:HG12	1.97	0.65
1:B:1218:ARG:HH22	1:B:1235:ASN:ND2	1.92	0.65
1:A:121:VAL:CG2	1:A:122:LEU:N	2.60	0.64
1:A:318:ILE:CG2	1:A:735:PHE:CZ	2.80	0.64
1:A:549:LEU:HG	1:A:579:ILE:CG2	2.27	0.64
1:B:121:VAL:CG2	1:B:122:LEU:N	2.60	0.64
1:B:557:LEU:HD21	1:B:565:VAL:HG21	1.79	0.64
1:B:751:PHE:CG	1:B:752:SER:N	2.64	0.64
1:B:879:ALA:O	1:B:883:LYS:HG2	1.96	0.64
1:B:1039:ASN:HB2	1:B:1047:PRO:CG	2.26	0.64
1:A:905:SER:HB2	1:A:908:ARG:HH12	1.62	0.64
1:A:1126:ASN:O	1:A:1127:ILE:C	2.33	0.64
1:B:69:LEU:HA	1:B:329:THR:CG2	2.26	0.64
1:B:232:LEU:O	1:B:235:PHE:HB3	1.97	0.64
1:B:849:TYR:CB	1:B:854:THR:OG1	2.43	0.64
1:B:1022:LEU:O	1:B:1023:LYS:C	2.35	0.64
1:A:57:ALA:HB1	1:A:190:PHE:HB2	1.79	0.64
1:A:206:ARG:O	1:A:330:VAL:HG11	1.97	0.64
1:A:449:ILE:O	1:A:450:ASP:C	2.34	0.64
1:B:282:ARG:HH11	1:B:282:ARG:HA	1.62	0.64
1:B:1116:PRO:O	1:B:1117:ILE:HB	1.97	0.64
1:B:1192:ILE:HD13	1:B:1193:LEU:N	2.13	0.64
1:A:267:LYS:HB2	1:A:267:LYS:HZ3	1.61	0.64
1:A:559:THR:O	1:A:562:GLU:HB3	1.98	0.64
1:A:897:ILE:HD12	1:A:898:GLU:N	2.11	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:129:VAL:CG2	1:B:938:PHE:HD1	2.11	0.64
1:B:227:ILE:O	1:B:231:ILE:HG13	1.97	0.64
1:B:306:TYR:CD2	1:B:307:ALA:N	2.64	0.64
1:B:393:ILE:HG22	1:B:446:MET:N	2.13	0.64
1:B:611:LEU:HB3	1:B:618:TYR:HB3	1.78	0.64
1:B:1129:TYR:O	1:B:1131:ASP:N	2.28	0.64
1:B:1150:ILE:HB	1:B:1179:ARG:HB3	1.78	0.64
1:B:1183:ALA:C	1:B:1187:VAL:HG23	2.17	0.64
1:A:415:SER:C	1:A:417:GLN:H	2.01	0.64
1:A:519:LEU:CD2	1:A:526:GLN:HE22	2.11	0.64
1:A:905:SER:CB	1:A:908:ARG:HH12	2.10	0.64
1:B:99:MET:HB3	1:B:960:VAL:O	1.98	0.64
1:B:294:SER:O	1:B:297:ALA:HB3	1.98	0.64
1:B:523:ARG:CD	1:B:524:GLY:N	2.59	0.64
1:B:732:VAL:HG23	1:B:733:GLY:H	1.62	0.64
1:B:912:PHE:C	1:B:914:THR:N	2.49	0.64
1:A:318:ILE:HD13	1:A:323:SER:HA	1.80	0.64
1:A:564:VAL:O	1:A:567:ALA:HB3	1.97	0.64
1:A:688:VAL:HG11	1:A:1006:ARG:NH1	2.12	0.64
1:B:844:ILE:O	1:B:847:LEU:HB2	1.98	0.64
1:B:1144:ALA:HB1	1:B:1183:ALA:HB1	1.80	0.64
1:A:454:ILE:HG23	1:A:455:ARG:N	2.13	0.64
1:A:1062:LEU:C	1:A:1062:LEU:HD13	2.18	0.64
1:B:686:GLU:HB3	1:B:688:VAL:HG13	1.78	0.64
1:B:802:ASP:CG	1:B:1041:PRO:O	2.36	0.64
1:B:922:ILE:HB	1:B:923:PRO:HD3	1.80	0.64
1:B:1005:ILE:HA	1:B:1008:ILE:HG22	1.79	0.64
1:A:33:VAL:HA	1:A:37:THR:HB	1.78	0.64
1:A:722:PRO:HB2	1:A:841:THR:CG2	2.27	0.64
1:A:816:ASN:O	1:A:820:GLN:HG2	1.96	0.64
1:B:850:GLY:C	1:B:851:TRP:HD1	1.98	0.64
1:A:188:MET:O	1:A:189:PHE:C	2.37	0.64
1:A:506:TYR:CD1	1:A:509:ILE:HD11	2.33	0.64
1:A:764:ILE:HG22	1:A:765:THR:N	2.13	0.64
1:B:1072:LYS:HB3	1:B:1226:ILE:HD13	1.78	0.64
1:A:204:PHE:C	1:A:211:THR:HG21	2.18	0.64
1:A:881:LYS:HZ2	1:A:881:LYS:HB2	1.62	0.64
1:A:964:LEU:CD1	1:A:965:MET:N	2.57	0.64
1:A:1218:ARG:HB2	1:A:1223:CYS:SG	2.38	0.64
1:B:69:LEU:HA	1:B:329:THR:HG21	1.79	0.64
1:B:178:ILE:HD12	1:B:358:ALA:CB	2.21	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:188:MET:HB2	1:B:347:ASN:HB3	1.78	0.64
1:B:290:THR:C	1:B:293:ILE:HB	2.18	0.64
1:B:332:PHE:O	1:B:335:LEU:HB3	1.98	0.64
1:B:379:HIS:CB	1:B:457:ILE:HA	2.28	0.64
1:B:409:LEU:HD22	1:B:410:ASN:H	1.60	0.64
1:B:552:GLU:O	1:B:553:ALA:C	2.36	0.64
1:B:1117:ILE:CD1	1:B:1118:LEU:H	2.10	0.64
1:A:573:ARG:CB	1:A:578:THR:HG21	2.26	0.63
1:A:862:PRO:O	1:A:866:ILE:HG13	1.98	0.63
1:A:976:ALA:CA	1:A:979:PHE:CD2	2.70	0.63
1:A:1252:THR:HG23	1:A:1255:GLN:CB	2.22	0.63
1:B:100:PHE:O	1:B:104:GLU:HG2	1.98	0.63
1:B:711:ILE:CD1	1:B:832:ILE:HD13	2.28	0.63
1:B:857:LEU:HD11	1:B:976:ALA:HB3	1.76	0.63
1:B:1176:GLN:O	1:B:1179:ARG:HB2	1.98	0.63
1:A:71:PHE:HA	1:A:74:MET:CE	2.28	0.63
1:A:207:GLY:HA3	1:A:211:THR:N	2.11	0.63
1:A:208:TRP:O	1:A:209:LYS:HB2	1.99	0.63
1:A:732:VAL:HG23	1:A:733:GLY:H	1.63	0.63
1:A:786:TYR:HE2	1:A:790:LYS:NZ	1.94	0.63
1:B:157:GLY:HA2	1:B:160:ASP:OD2	1.98	0.63
1:B:265:GLY:O	1:B:267:LYS:HG3	1.97	0.63
1:B:447:VAL:HG22	1:B:454:ILE:CG2	2.28	0.63
1:A:35:VAL:HA	1:A:359:TYR:HD2	1.57	0.63
1:A:85:SER:O	1:A:88:SER:HB2	1.98	0.63
1:A:107:MET:CE	1:A:954:ARG:HD2	2.27	0.63
1:A:833:PHE:CG	1:A:834:GLN:N	2.65	0.63
1:A:1236:ALA:HB3	1:A:1239:ILE:CG1	2.29	0.63
1:B:285:ILE:O	1:B:285:ILE:HD13	1.98	0.63
1:B:388:LEU:HD11	1:B:547:ILE:CD1	2.28	0.63
1:B:689:PRO:N	1:B:690:PRO:HD2	2.12	0.63
1:B:1092:LEU:HD11	1:B:1104:TRP:CZ3	2.34	0.63
1:A:38:MET:SD	1:A:362:PHE:CE1	2.91	0.63
1:A:315:SER:HA	1:A:318:ILE:HG22	1.79	0.63
1:A:857:LEU:O	1:A:859:ALA:N	2.31	0.63
1:B:39:PHE:CE2	1:B:358:ALA:HB3	2.33	0.63
1:B:403:VAL:O	1:B:405:ILE:HD12	1.98	0.63
1:B:521:GLY:HA3	1:B:526:GLN:OE1	1.99	0.63
1:B:697:LEU:HD12	1:B:697:LEU:C	2.19	0.63
1:B:730:LYS:HD3	1:B:750:LEU:HD21	1.80	0.63
1:A:214:ILE:CD1	1:A:330:VAL:CG1	2.76	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:421:LEU:HD13	1:A:579:ILE:HD11	1.81	0.63
1:A:436:MET:O	1:A:436:MET:HE3	1.98	0.63
1:A:697:LEU:HD12	1:A:697:LEU:C	2.18	0.63
1:A:1027:LEU:O	1:A:1191:HIS:HD2	1.81	0.63
1:B:252:GLU:N	1:B:252:GLU:OE1	2.31	0.63
1:B:694:TRP:O	1:B:697:LEU:CB	2.47	0.63
1:B:722:PRO:HB2	1:B:841:THR:CG2	2.28	0.63
1:B:826:GLY:O	1:B:829:LEU:HB2	1.99	0.63
1:B:1236:ALA:CB	1:B:1239:ILE:HD11	2.29	0.63
1:A:392:ASN:O	1:A:445:GLY:HA3	1.99	0.63
1:A:557:LEU:HD21	1:A:565:VAL:HG21	1.80	0.63
1:A:703:GLU:HA	1:A:783:ARG:HH12	1.63	0.63
1:B:132:TRP:HD1	1:B:133:CYS:N	1.95	0.63
1:B:202:ILE:HD12	1:B:203:GLY:H	1.62	0.63
1:B:851:TRP:HA	1:B:854:THR:CB	2.26	0.63
1:B:1090:VAL:O	1:B:1091:PHE:HD1	1.78	0.63
1:A:131:PHE:CZ	1:A:185:LYS:NZ	2.63	0.63
1:A:306:TYR:CD2	1:A:307:ALA:N	2.65	0.63
1:A:916:TYR:HA	1:A:919:SER:OG	1.97	0.63
1:A:995:ALA:O	1:A:998:THR:N	2.32	0.63
1:A:1038:PHE:HD2	1:A:1049:LEU:HD23	1.62	0.63
1:A:1064:LEU:HB2	1:A:1226:ILE:HG22	1.80	0.63
1:A:1091:PHE:CD1	1:A:1096:GLU:HA	2.33	0.63
1:A:1183:ALA:O	1:A:1187:VAL:HG23	1.97	0.63
1:B:154:GLN:NE2	1:B:162:HIS:NE2	2.46	0.63
1:B:741:PRO:O	1:B:742:GLU:HB2	1.99	0.63
1:B:1154:ILE:HG12	1:B:1161:TYR:CE2	2.34	0.63
1:B:1205:GLU:O	1:B:1206:SER:C	2.37	0.63
1:A:217:ILE:HD11	1:A:331:PHE:CE2	2.34	0.63
1:A:282:ARG:O	1:A:286:LYS:CB	2.44	0.63
1:A:762:SER:O	1:A:763:PHE:C	2.37	0.63
1:A:1039:ASN:HB2	1:A:1047:PRO:CB	2.29	0.63
1:B:387:ASN:ND2	1:B:414:LYS:HA	2.05	0.63
1:B:894:THR:O	1:B:898:GLU:HB3	1.99	0.63
1:A:96:LYS:HE3	1:A:962:GLN:HE22	1.62	0.63
1:A:183:GLY:O	1:A:186:ILE:HG23	1.97	0.63
1:A:385:GLN:CD	1:A:386:GLY:N	2.51	0.63
1:A:711:ILE:CG1	1:A:832:ILE:HG21	2.29	0.63
1:A:1121:CYS:O	1:A:1165:VAL:HG13	1.98	0.63
1:A:1123:ILE:HD12	1:A:1124:ALA:N	2.14	0.63
1:B:156:ILE:O	1:B:160:ASP:OD1	2.16	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:VAL:HG13	1:B:176:SER:N	2.14	0.63
1:B:318:ILE:HG23	1:B:735:PHE:HZ	1.62	0.63
1:B:843:ILE:HA	1:B:846:SER:OG	1.98	0.63
1:B:896:ALA:HB2	1:B:912:PHE:CE1	2.33	0.63
1:B:908:ARG:HE	1:B:908:ARG:N	1.96	0.63
1:A:251:GLU:O	1:A:254:LEU:HD11	1.98	0.62
1:A:278:GLU:O	1:A:282:ARG:CG	2.41	0.62
1:A:722:PRO:HG2	1:A:841:THR:HB	1.80	0.62
1:B:198:GLY:O	1:B:202:ILE:HG13	1.99	0.62
1:B:221:LEU:HD12	1:B:306:TYR:HA	1.79	0.62
1:B:284:GLY:C	1:B:286:LYS:N	2.48	0.62
1:B:500:VAL:O	1:B:503:ALA:N	2.32	0.62
1:B:883:LYS:HA	1:B:886:LEU:HD21	1.81	0.62
1:B:911:LYS:O	1:B:915:MET:HG3	1.99	0.62
1:A:163:ASP:HB2	1:A:166:GLU:CB	2.27	0.62
1:A:438:ARG:HG3	1:A:438:ARG:NH1	2.05	0.62
1:A:908:ARG:O	1:A:911:LYS:CB	2.44	0.62
1:B:38:MET:SD	1:B:362:PHE:CZ	2.91	0.62
1:B:318:ILE:CD1	1:B:325:GLY:H	2.12	0.62
1:B:1065:VAL:HG13	1:B:1241:VAL:HA	1.81	0.62
1:A:43:GLY:CA	1:A:46:ASP:HB2	2.29	0.62
1:A:285:ILE:O	1:A:285:ILE:HD13	1.99	0.62
1:A:713:CYS:CB	1:A:768:LEU:HD21	2.28	0.62
1:A:1009:GLU:OE1	1:A:1009:GLU:HA	1.99	0.62
1:A:1019:THR:OG1	1:A:1101:ASN:CA	2.47	0.62
1:A:1032:GLN:HE21	1:A:1055:GLU:HG3	1.64	0.62
1:B:484:ILE:HG21	1:B:496:ILE:HG23	1.81	0.62
1:B:697:LEU:HB3	1:B:828:ARG:NH2	2.14	0.62
1:B:1004:ILE:HD13	1:B:1004:ILE:C	2.20	0.62
1:A:303:TYR:O	1:A:306:TYR:HB3	2.00	0.62
1:A:1056:VAL:HG21	1:A:1062:LEU:HB2	1.79	0.62
1:B:133:CYS:HB3	1:B:931:ALA:HB1	1.81	0.62
1:B:900:PHE:C	1:B:902:THR:N	2.51	0.62
1:B:957:ALA:O	1:B:958:TYR:O	2.17	0.62
1:A:192:ALA:O	1:A:195:THR:HG23	1.98	0.62
1:A:253:VAL:CG1	1:A:254:LEU:N	2.61	0.62
1:A:493:MET:CA	1:A:496:ILE:HD13	2.30	0.62
1:A:857:LEU:HD12	1:A:977:ILE:CG1	2.29	0.62
1:A:1020:GLN:NE2	1:A:1022:LEU:H	1.96	0.62
1:A:1180:ILE:O	1:A:1183:ALA:HB3	1.99	0.62
1:B:132:TRP:C	1:B:132:TRP:HD1	2.03	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:225:ALA:HB2	1:B:302:ILE:HG21	1.82	0.62
1:B:238:LYS:HE2	1:B:238:LYS:C	2.20	0.62
1:A:175:VAL:O	1:A:178:ILE:HG12	1.98	0.62
1:A:812:THR:HG22	1:A:816:ASN:ND2	2.15	0.62
1:B:186:ILE:CG1	1:B:187:GLY:N	2.61	0.62
1:B:210:LEU:HA	1:B:213:VAL:CG2	2.24	0.62
1:B:454:ILE:HG23	1:B:455:ARG:N	2.10	0.62
1:B:508:PHE:CE1	1:B:509:ILE:HG23	2.35	0.62
1:A:177:LYS:O	1:A:354:ALA:CB	2.47	0.62
1:A:1011:THR:O	1:A:1013:GLU:N	2.32	0.62
1:A:1176:GLN:O	1:A:1179:ARG:HB2	1.99	0.62
1:B:257:ILE:HG21	1:B:800:PHE:CD2	2.34	0.62
1:B:365:ILE:HG22	1:B:366:ASP:N	2.14	0.62
1:B:607:ASN:HB3	1:B:610:GLU:OE2	1.99	0.62
1:B:718:GLY:CA	1:B:837:ALA:CB	2.73	0.62
1:B:718:GLY:O	1:B:722:PRO:CD	2.46	0.62
1:B:765:THR:CG2	1:B:766:PHE:N	2.62	0.62
1:B:808:GLY:O	1:B:810:LEU:N	2.33	0.62
1:B:906:LEU:C	1:B:908:ARG:NE	2.53	0.62
1:B:994:TYR:O	1:B:998:THR:OG1	2.14	0.62
1:B:1205:GLU:O	1:B:1208:LYS:N	2.33	0.62
1:A:1025:ASN:C	1:A:1027:LEU:H	2.02	0.62
1:A:1032:GLN:O	1:A:1090:VAL:HA	2.00	0.62
1:A:1143:ARG:O	1:A:1146:LYS:HB2	2.00	0.62
1:A:1153:PHE:HA	1:A:1157:LEU:CD2	2.25	0.62
1:B:99:MET:HB2	1:B:961:THR:O	1.99	0.62
1:B:342:GLY:O	1:B:346:PRO:CD	2.47	0.62
1:A:409:LEU:HD22	1:A:410:ASN:H	1.60	0.62
1:A:813:ARG:HD3	1:A:817:ASP:OD2	2.00	0.62
1:A:1137:SER:HG	1:A:1140:GLU:HB2	1.63	0.62
1:B:70:ILE:HD13	1:B:113:TYR:HB2	1.80	0.62
1:B:512:LEU:HD12	1:B:513:PRO:HD2	1.81	0.62
1:B:975:SER:O	1:B:978:VAL:HG12	2.00	0.62
1:A:155:GLU:OE1	1:A:155:GLU:HA	1.99	0.62
1:A:186:ILE:CG1	1:A:187:GLY:N	2.61	0.62
1:A:283:LEU:HA	1:A:286:LYS:HB2	1.82	0.62
1:A:294:SER:O	1:A:297:ALA:HB3	1.99	0.62
1:A:387:ASN:ND2	1:A:414:LYS:HA	2.10	0.62
1:A:397:TYR:CB	1:A:398:PRO:HD2	2.30	0.62
1:A:801:ASP:HB3	1:A:1083:TYR:CE2	2.34	0.62
1:B:86:LYS:HE2	1:B:738:GLY:C	2.20	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:178:ILE:HD13	1:B:178:ILE:N	2.14	0.62
1:B:371:ILE:C	1:B:373:SER:N	2.53	0.62
1:B:375:SER:O	1:B:376:LYS:HD2	2.00	0.62
1:B:1010:LYS:O	1:B:1011:THR:CG2	2.43	0.62
1:B:1252:THR:HG23	1:B:1255:GLN:CB	2.21	0.62
1:A:100:PHE:O	1:A:104:GLU:HG2	1.99	0.61
1:A:840:GLY:O	1:A:844:ILE:HG12	2.00	0.61
1:A:954:ARG:HH11	1:A:954:ARG:HG3	1.64	0.61
1:A:1206:SER:O	1:A:1210:VAL:HG23	1.99	0.61
1:B:278:GLU:HA	1:B:282:ARG:CZ	2.30	0.61
1:B:573:ARG:O	1:B:575:GLY:N	2.27	0.61
1:A:569:LEU:O	1:A:572:ALA:HB3	2.01	0.61
1:B:71:PHE:HA	1:B:74:MET:CE	2.30	0.61
1:B:171:LEU:C	1:B:171:LEU:HD13	2.20	0.61
1:B:1173:SER:H	1:B:1176:GLN:HE22	1.48	0.61
1:A:275:ASN:OD1	1:A:782:LYS:HB3	2.00	0.61
1:A:297:ALA:HB1	1:A:763:PHE:HD2	1.62	0.61
1:A:380:LYS:HE2	1:A:461:TYR:CD2	2.36	0.61
1:A:403:VAL:O	1:A:405:ILE:HD12	2.00	0.61
1:A:850:GLY:O	1:A:851:TRP:C	2.38	0.61
1:A:1020:GLN:HB3	1:A:1100:LEU:HD12	1.83	0.61
1:B:133:CYS:HB3	1:B:931:ALA:CB	2.30	0.61
1:B:317:VAL:O	1:B:317:VAL:HG12	2.00	0.61
1:B:459:VAL:O	1:B:460:ARG:C	2.38	0.61
1:B:1193:LEU:HB2	1:B:1223:CYS:CB	2.27	0.61
1:A:61:GLY:HA2	1:A:194:ALA:HB2	1.82	0.61
1:A:393:ILE:HG22	1:A:446:MET:N	2.15	0.61
1:A:601:VAL:HG13	1:A:601:VAL:O	1.99	0.61
1:A:833:PHE:O	1:A:834:GLN:C	2.39	0.61
1:A:1218:ARG:C	1:A:1220:GLY:H	2.02	0.61
1:B:253:VAL:CG1	1:B:254:LEU:N	2.63	0.61
1:B:497:GLU:O	1:B:500:VAL:HG23	2.00	0.61
1:A:35:VAL:HG23	1:A:36:LEU:HD23	1.82	0.61
1:A:721:GLN:HG2	1:A:982:MET:HE3	1.82	0.61
1:A:779:ILE:HD12	1:A:783:ARG:NH2	2.15	0.61
1:B:216:ALA:O	1:B:220:VAL:HG23	2.00	0.61
1:B:289:ILE:C	1:B:291:ALA:N	2.53	0.61
1:A:287:LYS:O	1:A:291:ALA:CB	2.47	0.61
1:A:300:LEU:O	1:A:303:TYR:HB3	2.00	0.61
1:A:459:VAL:O	1:A:460:ARG:C	2.38	0.61
1:A:543:ARG:HG2	1:A:543:ARG:HH11	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:732:VAL:HG23	1:A:733:GLY:N	2.15	0.61
1:A:889:SER:O	1:A:892:ILE:HG12	2.00	0.61
1:A:1172:LEU:HD22	1:A:1176:GLN:HE21	1.64	0.61
1:B:70:ILE:HG21	1:B:113:TYR:HD1	1.60	0.61
1:B:188:MET:O	1:B:189:PHE:C	2.38	0.61
1:B:290:THR:HG22	1:B:770:GLY:O	2.00	0.61
1:B:361:VAL:HG12	1:B:364:ILE:HD12	1.83	0.61
1:B:612:MET:HA	1:B:619:PHE:HB2	1.83	0.61
1:B:720:LEU:O	1:B:723:ALA:HB3	2.00	0.61
1:B:1030:ASN:OD1	1:B:1058:LYS:N	2.32	0.61
1:B:1043:ARG:N	1:B:1044:PRO:HD2	2.15	0.61
1:B:1064:LEU:HB2	1:B:1226:ILE:HG22	1.82	0.61
1:B:1100:LEU:HD21	1:B:1104:TRP:CE3	2.35	0.61
1:B:1153:PHE:O	1:B:1157:LEU:HB2	2.00	0.61
1:B:1206:SER:O	1:B:1210:VAL:HG23	2.01	0.61
1:A:453:ASP:O	1:A:456:THR:HG23	2.00	0.61
1:A:461:TYR:O	1:A:465:ILE:HG12	2.01	0.61
1:A:800:PHE:C	1:A:803:PRO:HD3	2.21	0.61
1:A:925:ARG:NH1	1:B:517:ASP:O	2.34	0.61
1:B:68:MET:HA	1:B:68:MET:CE	2.31	0.61
1:B:210:LEU:HD23	1:B:317:VAL:CG1	2.25	0.61
1:B:265:GLY:O	1:B:267:LYS:NZ	2.32	0.61
1:B:318:ILE:HD12	1:B:735:PHE:HE1	1.64	0.61
1:B:1143:ARG:O	1:B:1146:LYS:HB2	2.01	0.61
1:A:257:ILE:HG21	1:A:800:PHE:CD2	2.36	0.61
1:A:706:TYR:CD1	1:A:706:TYR:C	2.73	0.61
1:A:1255:GLN:O	1:A:1258:ALA:HB3	2.00	0.61
1:B:98:ALA:O	1:B:101:ALA:HB3	1.99	0.61
1:B:290:THR:HG22	1:B:770:GLY:C	2.20	0.61
1:B:713:CYS:SG	1:B:768:LEU:HD11	2.41	0.61
1:B:1038:PHE:HD2	1:B:1049:LEU:HD23	1.66	0.61
1:A:129:VAL:HG22	1:A:938:PHE:HD1	1.66	0.61
1:A:154:GLN:NE2	1:A:162:HIS:NE2	2.49	0.61
1:A:795:GLN:O	1:A:796:ASP:HB3	2.01	0.61
1:A:894:THR:O	1:A:898:GLU:HB3	2.01	0.61
1:A:899:ASN:HA	1:A:901:ARG:CZ	2.31	0.61
1:A:900:PHE:C	1:A:902:THR:N	2.54	0.61
1:A:964:LEU:C	1:A:966:THR:H	2.04	0.61
1:B:263:PHE:CD2	1:B:266:GLN:NE2	2.69	0.61
1:B:324:ILE:HB	1:B:326:GLN:HB2	1.82	0.61
1:B:564:VAL:O	1:B:567:ALA:HB3	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:797:VAL:C	1:B:799:TRP:H	2.03	0.61
1:B:958:TYR:CD2	1:B:959:LEU:HB2	2.34	0.61
1:B:1039:ASN:CB	1:B:1047:PRO:HG3	2.29	0.61
1:B:1090:VAL:HG22	1:B:1097:ILE:HB	1.82	0.61
1:B:1104:TRP:O	1:B:1105:LEU:C	2.39	0.61
1:B:1239:ILE:N	1:B:1239:ILE:CD1	2.63	0.61
1:A:153:ASN:HA	1:A:155:GLU:OE2	1.99	0.61
1:A:213:VAL:HB	1:A:331:PHE:CZ	2.34	0.61
1:A:883:LYS:HA	1:A:886:LEU:HD21	1.83	0.61
1:A:1026:MET:HE1	1:A:1100:LEU:HD11	1.83	0.61
1:B:236:THR:O	1:B:239:GLU:HB2	2.00	0.61
1:B:559:THR:O	1:B:562:GLU:HB3	2.00	0.61
1:B:954:ARG:HH11	1:B:954:ARG:HG3	1.65	0.61
1:A:292:ASN:O	1:A:295:MET:HB2	2.01	0.60
1:A:735:PHE:O	1:A:735:PHE:CD1	2.53	0.60
1:A:845:ILE:O	1:A:849:TYR:CD2	2.54	0.60
1:A:1018:SER:O	1:A:1101:ASN:HB2	2.01	0.60
1:B:107:MET:CE	1:B:954:ARG:HD2	2.31	0.60
1:B:385:GLN:NE2	1:B:386:GLY:N	2.47	0.60
1:B:852:GLN:O	1:B:955:PHE:CE1	2.55	0.60
1:B:1057:LYS:H	1:B:1057:LYS:HD2	1.66	0.60
1:A:44:TRP:C	1:A:46:ASP:H	2.02	0.60
1:A:54:THR:O	1:A:57:ALA:HB3	2.00	0.60
1:A:362:PHE:CA	1:A:365:ILE:HB	2.29	0.60
1:A:700:ASN:O	1:A:703:GLU:N	2.34	0.60
1:B:158:TRP:CZ2	1:B:900:PHE:HB2	2.35	0.60
1:B:688:VAL:HB	1:B:1006:ARG:HH12	1.66	0.60
1:B:1100:LEU:HD21	1:B:1104:TRP:HZ3	1.64	0.60
1:A:215:LEU:O	1:A:219:PRO:HD2	2.02	0.60
1:A:288:ALA:C	1:A:291:ALA:HB3	2.21	0.60
1:A:345:SER:HB3	1:A:346:PRO:HD3	1.83	0.60
1:A:406:LEU:HD21	1:A:432:THR:HG23	1.82	0.60
1:A:585:LEU:HD13	1:A:588:VAL:HG21	1.83	0.60
1:A:625:GLN:O	1:A:626:THR:HB	2.01	0.60
1:A:688:VAL:HB	1:A:1006:ARG:NH1	2.15	0.60
1:A:709:VAL:HG22	1:A:710:GLY:N	2.15	0.60
1:A:720:LEU:O	1:A:723:ALA:HB3	2.01	0.60
1:A:972:LEU:O	1:A:975:SER:HB2	2.01	0.60
1:B:131:PHE:HD2	1:B:131:PHE:C	2.05	0.60
1:B:136:ALA:HB2	1:B:182:ILE:HB	1.82	0.60
1:B:849:TYR:HB2	1:B:854:THR:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1118:LEU:HB3	1:B:1129:TYR:OH	2.01	0.60
1:A:70:ILE:HD13	1:A:113:TYR:HB2	1.84	0.60
1:B:58:ILE:O	1:B:62:VAL:HG23	2.01	0.60
1:B:200:PHE:O	1:B:201:ILE:C	2.38	0.60
1:B:218:SER:CB	1:B:219:PRO:HD3	2.31	0.60
1:B:257:ILE:HD12	1:B:257:ILE:O	2.01	0.60
1:B:359:TYR:O	1:B:362:PHE:HB3	2.00	0.60
1:A:686:GLU:CD	1:A:686:GLU:N	2.55	0.60
1:A:1033:PHE:CD1	1:A:1036:VAL:HG21	2.36	0.60
1:A:1042:THR:C	1:A:1044:PRO:CD	2.69	0.60
1:A:1079:LEU:HD23	1:A:1194:LEU:HD11	1.82	0.60
1:B:885:GLU:HB3	1:B:923:PRO:CG	2.31	0.60
1:A:267:LYS:HB3	1:A:790:LYS:CE	2.28	0.60
1:A:267:LYS:O	1:A:790:LYS:CE	2.50	0.60
1:A:279:GLU:HG2	1:A:782:LYS:HZ2	1.66	0.60
1:A:363:LYS:O	1:A:367:ASN:CG	2.40	0.60
1:A:853:LEU:O	1:A:854:THR:C	2.39	0.60
1:B:282:ARG:O	1:B:286:LYS:CB	2.49	0.60
1:A:853:LEU:CA	1:A:856:LEU:CB	2.73	0.60
1:A:970:VAL:HG23	1:A:971:LEU:CD2	2.32	0.60
1:B:167:LEU:O	1:B:168:ASN:C	2.39	0.60
1:B:282:ARG:HH11	1:B:282:ARG:N	1.98	0.60
1:B:425:SER:OG	1:B:598:ASP:O	2.20	0.60
1:B:740:PRO:HG2	1:B:741:PRO:HD3	1.84	0.60
1:B:909:GLU:O	1:B:912:PHE:HB2	2.02	0.60
1:A:227:ILE:O	1:A:231:ILE:HG13	2.01	0.60
1:A:284:GLY:C	1:A:286:LYS:H	2.04	0.60
1:A:289:ILE:HG22	1:A:290:THR:N	2.16	0.60
1:A:552:GLU:O	1:A:553:ALA:C	2.39	0.60
1:B:107:MET:HE2	1:B:954:ARG:HD2	1.84	0.60
1:B:251:GLU:O	1:B:254:LEU:HD11	2.01	0.60
1:B:812:THR:HG22	1:B:816:ASN:ND2	2.17	0.60
1:B:916:TYR:HA	1:B:919:SER:OG	2.00	0.60
1:B:1076:VAL:CG1	1:B:1194:LEU:HD13	2.31	0.60
1:B:1092:LEU:HD11	1:B:1104:TRP:HZ3	1.67	0.60
1:B:1197:GLU:OE2	1:B:1228:HIS:HB2	2.02	0.60
1:A:132:TRP:HD1	1:A:133:CYS:HA	1.66	0.60
1:A:232:LEU:O	1:A:235:PHE:HB3	2.01	0.60
1:A:342:GLY:O	1:A:346:PRO:HD2	2.02	0.60
1:A:942:GLN:N	1:A:942:GLN:OE1	2.35	0.60
1:B:362:PHE:CA	1:B:365:ILE:HB	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:459:VAL:O	1:B:461:TYR:N	2.35	0.60
1:A:110:TYR:O	1:A:113:TYR:HD2	1.83	0.60
1:A:175:VAL:HG13	1:A:176:SER:N	2.16	0.60
1:A:1004:ILE:O	1:A:1008:ILE:HG22	2.02	0.60
1:A:1084:ASP:OD1	1:A:1085:PRO:HD2	2.02	0.60
1:A:1097:ILE:HD11	1:A:1100:LEU:HD22	1.84	0.60
1:B:43:GLY:CA	1:B:46:ASP:HB2	2.32	0.60
1:B:157:GLY:HA2	1:B:160:ASP:HB2	1.82	0.60
1:B:706:TYR:CD1	1:B:706:TYR:C	2.75	0.60
1:B:857:LEU:HD23	1:B:858:LEU:H	1.65	0.60
1:B:1230:LEU:HD12	1:B:1270:GLN:HB2	1.83	0.60
1:A:209:LYS:HA	1:A:212:LEU:CB	2.32	0.59
1:A:253:VAL:HG12	1:A:254:LEU:N	2.17	0.59
1:A:290:THR:C	1:A:293:ILE:HB	2.22	0.59
1:A:374:PHE:CE1	1:A:376:LYS:CB	2.84	0.59
1:A:1236:ALA:CB	1:A:1239:ILE:HD11	2.30	0.59
1:B:157:GLY:HA2	1:B:160:ASP:CB	2.31	0.59
1:B:787:MET:HB3	1:B:1008:ILE:HD12	1.84	0.59
1:B:936:ILE:O	1:B:939:SER:OG	2.17	0.59
1:B:1062:LEU:C	1:B:1062:LEU:CD1	2.71	0.59
1:A:155:GLU:HB3	1:A:156:ILE:CD1	2.31	0.59
1:A:512:LEU:HD12	1:A:513:PRO:CG	2.33	0.59
1:A:1091:PHE:HE1	1:A:1096:GLU:HA	1.63	0.59
1:B:293:ILE:HG21	1:B:770:GLY:HA3	1.82	0.59
1:B:694:TRP:O	1:B:697:LEU:CG	2.49	0.59
1:B:792:MET:HE2	1:B:810:LEU:HD22	1.84	0.59
1:B:816:ASN:OD1	1:B:817:ASP:N	2.35	0.59
1:B:902:THR:C	1:B:904:VAL:N	2.54	0.59
1:B:904:VAL:HG13	1:B:905:SER:N	2.18	0.59
1:A:318:ILE:HD12	1:A:735:PHE:CE1	2.38	0.59
1:A:727:ILE:CG2	1:A:754:LEU:HG	2.31	0.59
1:A:916:TYR:N	1:A:916:TYR:CD1	2.65	0.59
1:A:918:GLN:HE22	1:B:482:GLU:CD	2.04	0.59
1:B:292:ASN:O	1:B:295:MET:HB2	2.02	0.59
1:B:449:ILE:O	1:B:450:ASP:C	2.38	0.59
1:B:907:THR:N	1:B:908:ARG:NE	2.50	0.59
1:B:1192:ILE:O	1:B:1193:LEU:HD23	2.03	0.59
1:A:61:GLY:HA3	1:A:194:ALA:HB2	1.82	0.59
1:A:236:THR:O	1:A:239:GLU:HB2	2.02	0.59
1:A:324:ILE:HD13	1:A:326:GLN:H	1.66	0.59
1:A:399:SER:O	1:A:401:LYS:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1099:GLN:CG	1:A:1099:GLN:O	2.50	0.59
1:A:1262:ILE:H	1:A:1262:ILE:CD1	2.14	0.59
1:B:195:THR:HB	1:B:340:SER:OG	2.03	0.59
1:B:268:LYS:O	1:B:268:LYS:HD3	2.02	0.59
1:B:283:LEU:HD12	1:B:284:GLY:N	2.16	0.59
1:B:548:LEU:HB3	1:B:578:THR:HB	1.85	0.59
1:B:557:LEU:HG	1:B:561:SER:OG	2.03	0.59
1:B:858:LEU:HD12	1:B:858:LEU:C	2.23	0.59
1:B:1099:GLN:O	1:B:1099:GLN:CG	2.50	0.59
1:A:167:LEU:O	1:A:170:ARG:N	2.36	0.59
1:A:315:SER:HA	1:A:318:ILE:CG2	2.33	0.59
1:A:512:LEU:HD12	1:A:513:PRO:N	2.17	0.59
1:A:548:LEU:HB3	1:A:578:THR:HB	1.83	0.59
1:A:799:TRP:CD1	1:A:800:PHE:CE1	2.87	0.59
1:B:450:ASP:CG	1:B:451:GLY:H	2.05	0.59
1:B:908:ARG:N	1:B:908:ARG:NE	2.50	0.59
1:B:993:ASP:C	1:B:996:LYS:HZ1	2.05	0.59
1:A:195:THR:HB	1:A:340:SER:OG	2.02	0.59
1:B:282:ARG:HD3	1:B:286:LYS:NZ	2.18	0.59
1:B:351:PHE:C	1:B:351:PHE:HD1	2.05	0.59
1:B:397:TYR:HB3	1:B:398:PRO:HD2	1.83	0.59
1:B:436:MET:HA	1:B:436:MET:HE3	1.85	0.59
1:B:523:ARG:HD3	1:B:524:GLY:N	2.04	0.59
1:B:625:GLN:O	1:B:626:THR:HB	2.02	0.59
1:B:857:LEU:HD13	1:B:976:ALA:HB3	1.82	0.59
1:B:1097:ILE:CD1	1:B:1100:LEU:HB3	2.32	0.59
1:A:167:LEU:O	1:A:168:ASN:C	2.40	0.59
1:A:581:ILE:HD13	1:A:581:ILE:C	2.22	0.59
1:A:838:ASN:HD22	1:A:839:LEU:N	1.99	0.59
1:A:858:LEU:HD12	1:A:858:LEU:C	2.23	0.59
1:A:904:VAL:HG13	1:A:905:SER:N	2.18	0.59
1:A:909:GLU:OE2	1:A:909:GLU:CA	2.51	0.59
1:A:936:ILE:O	1:A:939:SER:OG	2.18	0.59
1:B:762:SER:C	1:B:765:THR:HG22	2.23	0.59
1:A:204:PHE:HA	1:A:211:THR:CG2	2.33	0.59
1:A:472:GLU:HG3	1:A:472:GLU:O	2.01	0.59
1:A:527:LEU:HD23	1:A:527:LEU:N	2.18	0.59
1:A:797:VAL:HG12	1:A:798:SER:N	2.16	0.59
1:A:844:ILE:O	1:A:847:LEU:HB2	2.02	0.59
1:A:961:THR:O	1:A:962:GLN:CB	2.50	0.59
1:B:601:VAL:O	1:B:601:VAL:HG13	2.03	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1057:LYS:HD2	1:B:1057:LYS:N	2.18	0.59
1:A:69:LEU:HA	1:A:329:THR:CG2	2.31	0.59
1:A:114:TYR:HD2	1:A:946:TYR:CE2	2.21	0.59
1:A:438:ARG:NH1	1:A:455:ARG:HA	2.17	0.59
1:A:450:ASP:CG	1:A:451:GLY:N	2.56	0.59
1:A:987:VAL:HG13	1:A:988:SER:N	2.18	0.59
1:B:371:ILE:O	1:B:373:SER:N	2.36	0.59
1:B:405:ILE:HD12	1:B:405:ILE:N	2.02	0.59
1:B:457:ILE:HD11	1:B:462:LEU:HD12	1.84	0.59
1:B:1164:ARG:C	1:B:1166:GLY:N	2.55	0.59
1:A:182:ILE:HD13	1:A:182:ILE:N	2.18	0.59
1:A:204:PHE:O	1:A:211:THR:CG2	2.45	0.59
1:A:283:LEU:HD12	1:A:284:GLY:N	2.17	0.59
1:A:845:ILE:HA	1:A:848:ILE:HG23	1.83	0.59
1:A:921:GLN:HG2	1:A:922:ILE:N	2.18	0.59
1:B:110:TYR:O	1:B:113:TYR:HD2	1.86	0.59
1:B:266:GLN:O	1:B:267:LYS:CB	2.48	0.59
1:B:447:VAL:HG22	1:B:454:ILE:HG22	1.85	0.59
1:B:765:THR:HG23	1:B:766:PHE:CD1	2.38	0.59
1:B:827:SER:O	1:B:831:VAL:HG23	2.03	0.59
1:B:1208:LYS:HD3	1:B:1209:VAL:N	2.18	0.59
1:A:283:LEU:C	1:A:286:LYS:HB2	2.23	0.58
1:A:289:ILE:C	1:A:291:ALA:N	2.56	0.58
1:A:304:ALA:HB2	1:A:758:LEU:CD2	2.33	0.58
1:A:459:VAL:O	1:A:462:LEU:N	2.35	0.58
1:A:484:ILE:HG23	1:A:542:VAL:HG21	1.84	0.58
1:A:611:LEU:HB3	1:A:618:TYR:CB	2.31	0.58
1:A:712:PHE:O	1:A:715:ILE:HG12	2.03	0.58
1:A:765:THR:CG2	1:A:766:PHE:N	2.65	0.58
1:A:819:ALA:O	1:A:822:LYS:HB3	2.03	0.58
1:A:881:LYS:HB2	1:A:881:LYS:NZ	2.17	0.58
1:B:351:PHE:C	1:B:351:PHE:CD1	2.76	0.58
1:B:362:PHE:HA	1:B:365:ILE:CD1	2.33	0.58
1:B:566:GLN:HA	1:B:569:LEU:HD12	1.84	0.58
1:A:254:LEU:N	1:A:254:LEU:CD2	2.65	0.58
1:A:406:LEU:HD11	1:A:432:THR:CG2	2.33	0.58
1:A:421:LEU:CD1	1:A:579:ILE:HD11	2.33	0.58
1:A:492:THR:O	1:A:495:GLU:N	2.33	0.58
1:A:816:ASN:OD1	1:A:817:ASP:N	2.36	0.58
1:A:839:LEU:O	1:A:842:GLY:N	2.37	0.58
1:B:61:GLY:HA3	1:B:194:ALA:HB2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:157:GLY:C	1:B:159:PHE:H	2.06	0.58
1:B:206:ARG:O	1:B:211:THR:HB	2.03	0.58
1:B:393:ILE:H	1:B:393:ILE:HD13	1.67	0.58
1:B:713:CYS:CB	1:B:768:LEU:HD21	2.33	0.58
1:B:734:VAL:HG22	1:B:734:VAL:O	2.02	0.58
1:B:762:SER:O	1:B:763:PHE:C	2.42	0.58
1:B:1064:LEU:HB3	1:B:1226:ILE:HB	1.84	0.58
1:B:1218:ARG:O	1:B:1220:GLY:N	2.36	0.58
1:A:290:THR:CA	1:A:293:ILE:HB	2.34	0.58
1:A:351:PHE:HD1	1:A:351:PHE:C	2.07	0.58
1:A:939:SER:O	1:A:942:GLN:N	2.36	0.58
1:A:1131:ASP:HB3	1:A:1188:ARG:CZ	2.32	0.58
1:B:253:VAL:HG12	1:B:254:LEU:N	2.17	0.58
1:B:291:ALA:HA	1:B:294:SER:CB	2.28	0.58
1:B:465:ILE:O	1:B:465:ILE:HG22	2.03	0.58
1:B:742:GLU:O	1:B:746:GLN:HG2	2.02	0.58
1:B:850:GLY:C	1:B:852:GLN:H	2.00	0.58
1:A:131:PHE:HD2	1:A:131:PHE:C	2.07	0.58
1:A:765:THR:O	1:A:769:GLN:NE2	2.31	0.58
1:A:789:PHE:HD2	1:A:789:PHE:O	1.87	0.58
1:A:912:PHE:O	1:A:914:THR:N	2.36	0.58
1:A:1192:ILE:O	1:A:1193:LEU:HD23	2.02	0.58
1:A:1241:VAL:HB	1:A:1249:GLU:HB2	1.85	0.58
1:B:36:LEU:HG	1:B:37:THR:H	1.68	0.58
1:B:211:THR:HA	1:B:214:ILE:CD1	2.32	0.58
1:B:594:ILE:HD12	1:B:594:ILE:N	2.18	0.58
1:B:724:PHE:CD1	1:B:754:LEU:HD21	2.39	0.58
1:B:869:VAL:HG12	1:B:870:VAL:N	2.17	0.58
1:B:902:THR:C	1:B:904:VAL:H	2.06	0.58
1:A:103:LEU:HD22	1:A:960:VAL:HG22	1.84	0.58
1:A:512:LEU:CD1	1:A:513:PRO:HD2	2.31	0.58
1:A:975:SER:O	1:A:979:PHE:CD1	2.55	0.58
1:B:283:LEU:HA	1:B:286:LYS:HB2	1.84	0.58
1:B:693:PHE:HD2	1:B:694:TRP:H	1.47	0.58
1:B:803:PRO:C	1:B:804:LYS:HD3	2.24	0.58
1:B:828:ARG:O	1:B:831:VAL:HB	2.04	0.58
1:B:837:ALA:HB1	1:B:982:MET:CE	2.33	0.58
1:B:968:GLU:C	1:B:968:GLU:CD	2.61	0.58
1:B:1039:ASN:HB2	1:B:1047:PRO:CB	2.33	0.58
1:B:1153:PHE:CA	1:B:1157:LEU:HD23	2.27	0.58
1:A:426:GLY:CA	1:A:429:LYS:HZ1	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:454:ILE:HG23	1:A:455:ARG:HG3	1.86	0.58
1:A:697:LEU:HA	1:A:700:ASN:HB2	1.84	0.58
1:A:1064:LEU:HB3	1:A:1226:ILE:HB	1.86	0.58
1:B:279:GLU:HA	1:B:782:LYS:HZ3	1.67	0.58
1:B:318:ILE:O	1:B:318:ILE:CD1	2.46	0.58
1:B:462:LEU:HG	1:B:466:ILE:HD12	1.84	0.58
1:B:527:LEU:HD23	1:B:527:LEU:H	1.68	0.58
1:B:581:ILE:HD13	1:B:581:ILE:C	2.24	0.58
1:B:959:LEU:O	1:B:964:LEU:HB3	2.04	0.58
1:B:1062:LEU:HD13	1:B:1063:ALA:N	2.19	0.58
1:B:1144:ALA:HB2	1:B:1187:VAL:CG2	2.22	0.58
1:B:1185:ALA:O	1:B:1188:ARG:N	2.36	0.58
1:A:110:TYR:CA	1:A:113:TYR:CD2	2.79	0.58
1:A:155:GLU:OE1	1:A:155:GLU:CA	2.52	0.58
1:A:1048:VAL:HG23	1:A:1049:LEU:CD2	2.27	0.58
1:B:768:LEU:CG	1:B:769:GLN:N	2.67	0.58
1:A:424:ASN:HB2	1:A:598:ASP:OD1	2.03	0.58
1:A:721:GLN:HG2	1:A:982:MET:CE	2.34	0.58
1:A:773:PHE:HB2	1:A:829:LEU:HD13	1.86	0.58
1:A:790:LYS:HB2	1:A:794:ARG:NH2	2.18	0.58
1:A:911:LYS:O	1:A:915:MET:HG3	2.04	0.58
1:A:1022:LEU:HG	1:A:1104:TRP:NE1	2.19	0.58
1:B:296:GLY:HA3	1:B:766:PHE:HE2	1.67	0.58
1:B:370:SER:O	1:B:372:ASP:N	2.36	0.58
1:B:454:ILE:HG23	1:B:455:ARG:HG3	1.85	0.58
1:B:478:THR:HG21	1:B:482:GLU:CB	2.34	0.58
1:B:768:LEU:HG	1:B:769:GLN:N	2.17	0.58
1:B:777:GLY:HA2	1:B:822:LYS:HG3	1.85	0.58
1:B:791:SER:N	1:B:794:ARG:HH21	2.02	0.58
1:B:845:ILE:HA	1:B:848:ILE:HG23	1.86	0.58
1:B:1054:LEU:N	1:B:1054:LEU:HD22	2.18	0.58
1:A:209:LYS:CA	1:A:212:LEU:HB3	2.33	0.58
1:A:720:LEU:HD21	1:A:762:SER:HB2	1.86	0.58
1:A:1005:ILE:HA	1:A:1008:ILE:CG2	2.33	0.58
1:A:1149:ASN:O	1:A:1179:ARG:HD3	2.04	0.58
1:B:54:THR:O	1:B:58:ILE:HD13	2.03	0.58
1:B:519:LEU:CD2	1:B:526:GLN:HE22	2.17	0.58
1:B:807:THR:O	1:B:811:THR:HG23	2.04	0.58
1:A:133:CYS:HB2	1:A:931:ALA:HB1	1.86	0.58
1:A:210:LEU:HD11	1:A:327:VAL:HG12	1.85	0.58
1:A:282:ARG:HH11	1:A:282:ARG:N	2.01	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:976:ALA:O	1:A:979:PHE:HB2	2.04	0.58
1:A:1117:ILE:CD1	1:A:1118:LEU:H	2.17	0.58
1:A:1183:ALA:O	1:A:1185:ALA:N	2.37	0.58
1:A:1197:GLU:O	1:A:1198:ALA:C	2.42	0.58
1:B:289:ILE:HG22	1:B:290:THR:N	2.18	0.58
1:B:492:THR:H	1:B:495:GLU:CD	2.07	0.58
1:B:711:ILE:HG12	1:B:711:ILE:O	2.01	0.58
1:B:982:MET:HG2	1:B:983:ALA:H	1.66	0.58
1:B:1097:ILE:CD1	1:B:1100:LEU:HB2	2.31	0.58
1:A:315:SER:CB	1:A:747:ASN:CG	2.73	0.57
1:A:394:HIS:HA	1:A:406:LEU:O	2.03	0.57
1:A:831:VAL:O	1:A:832:ILE:C	2.43	0.57
1:B:314:THR:HG22	1:B:315:SER:N	2.18	0.57
1:B:363:LYS:O	1:B:367:ASN:CG	2.42	0.57
1:B:928:MET:O	1:B:931:ALA:HB3	2.04	0.57
1:B:1148:ALA:O	1:B:1149:ASN:HB2	2.03	0.57
1:A:133:CYS:HB2	1:A:931:ALA:CB	2.35	0.57
1:A:384:ILE:HG22	1:A:385:GLN:N	2.11	0.57
1:A:851:TRP:O	1:A:852:GLN:CG	2.52	0.57
1:A:1023:LYS:H	1:A:1023:LYS:HD2	1.69	0.57
1:A:1045:SER:C	1:A:1046:ILE:O	2.41	0.57
1:B:720:LEU:HD13	1:B:761:ILE:CG2	2.30	0.57
1:B:853:LEU:O	1:B:854:THR:C	2.42	0.57
1:B:912:PHE:C	1:B:914:THR:H	2.08	0.57
1:B:976:ALA:O	1:B:979:PHE:HB2	2.04	0.57
1:B:1033:PHE:CD1	1:B:1036:VAL:CG2	2.86	0.57
1:A:218:SER:HB2	1:A:219:PRO:HD3	1.86	0.57
1:A:252:GLU:OE1	1:A:252:GLU:N	2.37	0.57
1:A:342:GLY:O	1:A:346:PRO:CD	2.52	0.57
1:A:593:VAL:C	1:A:594:ILE:HD12	2.25	0.57
1:A:906:LEU:C	1:A:908:ARG:NE	2.56	0.57
1:A:912:PHE:C	1:A:914:THR:N	2.54	0.57
1:A:1189:GLN:N	1:A:1190:PRO:HD3	2.19	0.57
1:A:1234:GLN:HG2	1:A:1253:HIS:NE2	2.19	0.57
1:B:131:PHE:C	1:B:131:PHE:CD2	2.76	0.57
1:B:175:VAL:O	1:B:178:ILE:HG12	2.05	0.57
1:B:911:LYS:C	1:B:914:THR:HB	2.24	0.57
1:A:35:VAL:CG2	1:A:36:LEU:N	2.40	0.57
1:A:960:VAL:HG12	1:A:966:THR:OG1	2.04	0.57
1:B:530:GLY:HA2	1:B:557:LEU:HD11	1.86	0.57
1:B:735:PHE:CD1	1:B:735:PHE:O	2.57	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:849:TYR:OH	1:B:972:LEU:O	2.13	0.57
1:B:910:GLN:O	1:B:912:PHE:N	2.37	0.57
1:B:993:ASP:O	1:B:995:ALA:N	2.37	0.57
1:B:1066:GLY:H	1:B:1072:LYS:HE2	1.69	0.57
1:A:278:GLU:HA	1:A:282:ARG:CZ	2.35	0.57
1:A:388:LEU:HB2	1:A:413:VAL:CG1	2.34	0.57
1:A:716:ILE:C	1:A:716:ILE:HD12	2.25	0.57
1:A:949:TYR:O	1:A:952:ALA:HB3	2.03	0.57
1:A:1150:ILE:HB	1:A:1179:ARG:HB3	1.86	0.57
1:B:35:VAL:HG21	1:B:355:ARG:HH21	1.70	0.57
1:B:207:GLY:HA3	1:B:211:THR:HB	1.87	0.57
1:B:239:GLU:OE1	1:B:239:GLU:HA	2.04	0.57
1:B:881:LYS:O	1:B:884:LYS:HB2	2.03	0.57
1:A:749:ASN:OD1	1:A:750:LEU:N	2.38	0.57
1:A:801:ASP:HB3	1:A:1083:TYR:CZ	2.40	0.57
1:A:867:ALA:O	1:A:868:GLY:C	2.42	0.57
1:A:906:LEU:N	1:A:908:ARG:NH1	2.52	0.57
1:B:192:ALA:O	1:B:195:THR:HG23	2.04	0.57
1:B:428:GLY:O	1:B:431:THR:HB	2.04	0.57
1:B:498:LYS:NZ	1:B:502:GLU:OE2	2.38	0.57
1:B:766:PHE:O	1:B:767:PHE:C	2.43	0.57
1:B:853:LEU:HD21	1:B:956:GLY:HA2	1.87	0.57
1:B:921:GLN:HG2	1:B:922:ILE:N	2.19	0.57
1:B:1096:GLU:O	1:B:1099:GLN:N	2.35	0.57
1:A:765:THR:C	1:A:769:GLN:HE21	2.07	0.57
1:A:851:TRP:N	1:A:851:TRP:CD1	2.72	0.57
1:A:857:LEU:CD2	1:A:857:LEU:C	2.71	0.57
1:A:982:MET:CG	1:A:983:ALA:N	2.68	0.57
1:B:218:SER:CB	1:B:219:PRO:CD	2.82	0.57
1:B:438:ARG:O	1:B:438:ARG:HD3	2.03	0.57
1:B:973:VAL:O	1:B:977:ILE:HG13	2.04	0.57
1:B:987:VAL:HG13	1:B:988:SER:N	2.20	0.57
1:B:1064:LEU:HD13	1:B:1065:VAL:N	2.20	0.57
1:B:1191:HIS:O	1:B:1221:ARG:HB2	2.04	0.57
1:A:33:VAL:O	1:A:36:LEU:HG	2.05	0.57
1:A:69:LEU:HA	1:A:329:THR:HG21	1.86	0.57
1:A:131:PHE:O	1:A:132:TRP:C	2.43	0.57
1:A:550:LEU:HD12	1:A:550:LEU:N	2.19	0.57
1:A:1004:ILE:C	1:A:1004:ILE:CD1	2.70	0.57
1:A:1258:ALA:HA	1:A:1260:LYS:NZ	2.20	0.57
1:B:103:LEU:O	1:B:107:MET:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:ILE:HD11	1:B:331:PHE:CE2	2.33	0.57
1:B:498:LYS:HZ2	1:B:502:GLU:HG3	1.69	0.57
1:B:543:ARG:CZ	1:B:905:SER:HB3	2.33	0.57
1:B:721:GLN:CG	1:B:982:MET:HE3	2.31	0.57
1:B:906:LEU:N	1:B:908:ARG:NH1	2.52	0.57
1:A:36:LEU:HG	1:A:37:THR:N	2.20	0.57
1:A:125:ALA:O	1:A:129:VAL:HG23	2.04	0.57
1:A:131:PHE:CE2	1:A:186:ILE:HG22	2.39	0.57
1:A:198:GLY:O	1:A:200:PHE:N	2.38	0.57
1:A:359:TYR:CE1	1:A:360:GLU:OE1	2.58	0.57
1:A:383:ASN:C	1:A:384:ILE:HD12	2.25	0.57
1:A:435:LEU:C	1:A:437:GLN:N	2.54	0.57
1:A:993:ASP:O	1:A:994:TYR:C	2.41	0.57
1:A:1067:SER:OG	1:A:1068:SER:N	2.38	0.57
1:A:1083:TYR:CD1	1:A:1083:TYR:N	2.71	0.57
1:A:1091:PHE:CE1	1:A:1096:GLU:CG	2.82	0.57
1:A:1124:ALA:HA	1:A:1127:ILE:HD12	1.86	0.57
1:A:1153:PHE:CA	1:A:1157:LEU:HD23	2.30	0.57
1:A:1166:GLY:HA3	1:A:1171:GLN:OE1	2.04	0.57
1:B:946:TYR:CG	1:B:947:PHE:N	2.72	0.57
1:B:1166:GLY:HA3	1:B:1171:GLN:OE1	2.04	0.57
1:A:401:LYS:H	1:A:401:LYS:HD2	1.70	0.57
1:A:536:ALA:O	1:A:539:ARG:N	2.37	0.57
1:A:548:LEU:CD2	1:A:550:LEU:CD1	2.81	0.57
1:A:761:ILE:O	1:A:764:ILE:HB	2.05	0.57
1:A:1017:TYR:C	1:A:1101:ASN:HD22	2.07	0.57
1:B:604:GLU:OE1	1:B:616:GLY:HA3	2.05	0.57
1:B:762:SER:HA	1:B:765:THR:HG22	1.87	0.57
1:B:798:SER:HA	1:B:801:ASP:CB	2.31	0.57
1:B:902:THR:OG1	1:B:908:ARG:NH2	2.38	0.57
1:A:498:LYS:C	1:A:498:LYS:HE2	2.25	0.56
1:A:760:ILE:O	1:A:761:ILE:C	2.43	0.56
1:A:928:MET:O	1:A:931:ALA:HB3	2.05	0.56
1:A:1053:SER:C	1:A:1054:LEU:HD13	2.25	0.56
1:B:72:GLY:HA2	1:B:326:GLN:NE2	2.20	0.56
1:B:467:GLY:CA	1:B:545:PRO:HG3	2.35	0.56
1:B:762:SER:HA	1:B:765:THR:CG2	2.35	0.56
1:B:1083:TYR:N	1:B:1083:TYR:CD1	2.73	0.56
1:B:1205:GLU:O	1:B:1209:VAL:HG12	2.05	0.56
1:A:545:PRO:O	1:A:546:LYS:HD3	2.06	0.56
1:A:573:ARG:O	1:A:576:ARG:O	2.23	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:699:LEU:O	1:A:702:THR:HB	2.04	0.56
1:B:881:LYS:HB2	1:B:881:LYS:NZ	2.19	0.56
1:B:1053:SER:C	1:B:1054:LEU:HD13	2.25	0.56
1:B:1131:ASP:HB3	1:B:1188:ARG:CZ	2.35	0.56
1:A:317:VAL:HG12	1:A:317:VAL:O	2.03	0.56
1:A:366:ASP:O	1:A:367:ASN:O	2.22	0.56
1:A:762:SER:HA	1:A:765:THR:CG2	2.35	0.56
1:A:766:PHE:O	1:A:767:PHE:C	2.43	0.56
1:A:902:THR:OG1	1:A:908:ARG:NH2	2.38	0.56
1:A:1057:LYS:HD2	1:A:1057:LYS:N	2.20	0.56
1:B:114:TYR:HB3	1:B:950:ALA:CB	2.35	0.56
1:B:711:ILE:HG12	1:B:715:ILE:HD11	1.87	0.56
1:B:773:PHE:HB2	1:B:829:LEU:CD1	2.34	0.56
1:B:1024:PRO:O	1:B:1027:LEU:HD22	2.05	0.56
1:B:1037:VAL:HA	1:B:1049:LEU:O	2.05	0.56
1:B:1079:LEU:C	1:B:1081:ARG:H	2.07	0.56
1:A:218:SER:CB	1:A:219:PRO:CD	2.83	0.56
1:A:507:ASP:OD1	1:A:508:PHE:N	2.39	0.56
1:A:911:LYS:C	1:A:914:THR:HB	2.25	0.56
1:A:1048:VAL:CG2	1:A:1049:LEU:HD22	2.29	0.56
1:B:471:GLN:O	1:B:472:GLU:C	2.42	0.56
1:B:734:VAL:HG11	1:B:750:LEU:HD11	1.86	0.56
1:B:1004:ILE:HD13	1:B:1004:ILE:O	2.06	0.56
1:A:186:ILE:C	1:A:186:ILE:HD12	2.26	0.56
1:A:282:ARG:HD3	1:A:286:LYS:NZ	2.21	0.56
1:A:594:ILE:HD12	1:A:594:ILE:N	2.20	0.56
1:A:1099:GLN:O	1:A:1099:GLN:HG2	2.04	0.56
1:A:1154:ILE:HG12	1:A:1161:TYR:CE2	2.41	0.56
1:A:1193:LEU:HB2	1:A:1223:CYS:HB3	1.83	0.56
1:B:702:THR:C	1:B:704:TRP:H	2.09	0.56
1:B:725:SER:HB3	1:B:975:SER:HB3	1.85	0.56
1:B:1173:SER:H	1:B:1176:GLN:NE2	2.03	0.56
1:B:1242:ILE:HD12	1:B:1246:LYS:O	2.04	0.56
1:A:188:MET:HB2	1:A:347:ASN:CB	2.34	0.56
1:A:351:PHE:C	1:A:351:PHE:CD1	2.79	0.56
1:A:403:VAL:O	1:A:405:ILE:N	2.39	0.56
1:A:515:GLN:HG2	1:B:138:ARG:NH2	2.21	0.56
1:A:768:LEU:HG	1:A:769:GLN:N	2.20	0.56
1:A:853:LEU:O	1:A:856:LEU:CA	2.53	0.56
1:A:881:LYS:O	1:A:884:LYS:HB2	2.06	0.56
1:A:1263:TYR:O	1:A:1267:VAL:HG23	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:288:ALA:C	1:B:291:ALA:HB3	2.25	0.56
1:B:463:ARG:NH1	1:B:903:VAL:HG22	2.21	0.56
1:B:508:PHE:HE2	1:B:534:ARG:HD2	1.70	0.56
1:B:543:ARG:HH21	1:B:907:THR:CG2	2.09	0.56
1:B:796:ASP:C	1:B:797:VAL:O	2.44	0.56
1:B:867:ALA:O	1:B:868:GLY:C	2.42	0.56
1:B:889:SER:O	1:B:892:ILE:HG12	2.05	0.56
1:A:44:TRP:CD1	1:A:45:LEU:HD13	2.41	0.56
1:A:238:LYS:HE2	1:A:238:LYS:C	2.24	0.56
1:A:484:ILE:HG21	1:A:496:ILE:HG13	1.87	0.56
1:A:765:THR:C	1:A:769:GLN:NE2	2.59	0.56
1:A:826:GLY:CA	1:A:829:LEU:HD12	2.16	0.56
1:A:1094:GLY:C	1:A:1095:LYS:CG	2.70	0.56
1:A:1128:ALA:O	1:A:1129:TYR:C	2.44	0.56
1:A:1239:ILE:N	1:A:1239:ILE:CD1	2.63	0.56
1:B:318:ILE:HD12	1:B:735:PHE:CE1	2.40	0.56
1:B:711:ILE:HD11	1:B:832:ILE:HD13	1.88	0.56
1:B:1189:GLN:N	1:B:1190:PRO:HD3	2.20	0.56
1:B:1262:ILE:HD12	1:B:1262:ILE:N	2.17	0.56
1:A:158:TRP:HZ2	1:A:900:PHE:HA	1.70	0.56
1:A:310:PHE:HZ	1:A:332:PHE:HA	1.70	0.56
1:A:688:VAL:CB	1:A:1006:ARG:NH1	2.69	0.56
1:A:816:ASN:O	1:A:819:ALA:HB3	2.05	0.56
1:A:901:ARG:H	1:A:901:ARG:CD	2.03	0.56
1:A:908:ARG:HE	1:A:908:ARG:N	2.04	0.56
1:A:1096:GLU:C	1:A:1098:LYS:N	2.58	0.56
1:B:545:PRO:O	1:B:546:LYS:HD3	2.06	0.56
1:B:701:SER:HA	1:B:704:TRP:HB3	1.87	0.56
1:B:790:LYS:CB	1:B:794:ARG:NH2	2.68	0.56
1:A:185:LYS:HZ2	1:A:186:ILE:CA	2.18	0.56
1:A:304:ALA:O	1:A:307:ALA:HB3	2.06	0.56
1:A:332:PHE:O	1:A:335:LEU:HB3	2.06	0.56
1:A:725:SER:HG	1:A:979:PHE:HE1	1.53	0.56
1:A:765:THR:HG23	1:A:766:PHE:CD1	2.38	0.56
1:A:995:ALA:O	1:A:996:LYS:C	2.43	0.56
1:A:1017:TYR:O	1:A:1101:ASN:ND2	2.38	0.56
1:B:58:ILE:HG13	1:B:193:MET:HG3	1.87	0.56
1:B:61:GLY:O	1:B:65:PRO:CD	2.47	0.56
1:B:584:ARG:NE	1:B:584:ARG:HA	2.20	0.56
1:B:688:VAL:HG23	1:B:688:VAL:O	2.06	0.56
1:B:740:PRO:HG2	1:B:741:PRO:CD	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:790:LYS:C	1:B:794:ARG:HH21	2.09	0.56
1:B:813:ARG:NH2	1:B:1003:HIS:CE1	2.74	0.56
1:B:819:ALA:O	1:B:822:LYS:HB3	2.05	0.56
1:B:1106:ARG:O	1:B:1109:LEU:HD22	2.06	0.56
1:A:71:PHE:O	1:A:74:MET:HG2	2.06	0.56
1:A:171:LEU:C	1:A:171:LEU:HD13	2.27	0.56
1:A:232:LEU:HG	1:A:295:MET:SD	2.46	0.56
1:A:296:GLY:HA3	1:A:766:PHE:HE2	1.66	0.56
1:A:398:PRO:HD3	1:A:440:TYR:CE2	2.39	0.56
1:A:1032:GLN:NE2	1:A:1055:GLU:HG3	2.21	0.56
1:B:132:TRP:HD1	1:B:133:CYS:CA	2.18	0.56
1:B:362:PHE:CA	1:B:365:ILE:HD12	2.36	0.56
1:B:720:LEU:HD21	1:B:762:SER:HB2	1.88	0.56
1:B:779:ILE:HD12	1:B:783:ARG:HH21	1.71	0.56
1:B:821:VAL:HG12	1:B:1001:ALA:HA	1.87	0.56
1:B:838:ASN:HD22	1:B:839:LEU:N	2.03	0.56
1:A:178:ILE:HD13	1:A:178:ILE:N	2.21	0.55
1:A:734:VAL:O	1:A:734:VAL:HG22	2.04	0.55
1:A:909:GLU:O	1:A:912:PHE:HB2	2.06	0.55
1:A:1048:VAL:HG21	1:A:1074:THR:HG21	1.86	0.55
1:A:1116:PRO:O	1:A:1117:ILE:CB	2.55	0.55
1:B:211:THR:O	1:B:215:LEU:HG	2.06	0.55
1:B:385:GLN:NE2	1:B:386:GLY:O	2.39	0.55
1:B:845:ILE:O	1:B:849:TYR:CD2	2.58	0.55
1:B:899:ASN:HA	1:B:901:ARG:NH1	2.20	0.55
1:B:1176:GLN:O	1:B:1180:ILE:HG13	2.05	0.55
1:B:1195:LEU:HB2	1:B:1225:VAL:HA	1.87	0.55
1:A:118:GLY:HA3	1:A:946:TYR:CG	2.41	0.55
1:A:131:PHE:C	1:A:131:PHE:CD2	2.78	0.55
1:A:207:GLY:CA	1:A:210:LEU:HB3	2.35	0.55
1:A:218:SER:CB	1:A:219:PRO:HD3	2.36	0.55
1:A:288:ALA:O	1:A:291:ALA:HB3	2.07	0.55
1:A:362:PHE:HA	1:A:365:ILE:CG1	2.36	0.55
1:A:894:THR:O	1:A:895:GLU:C	2.44	0.55
1:A:1064:LEU:HD13	1:A:1065:VAL:N	2.21	0.55
1:A:1230:LEU:O	1:A:1233:ILE:HG22	2.07	0.55
1:B:206:ARG:O	1:B:330:VAL:HG11	2.06	0.55
1:B:283:LEU:N	1:B:778:GLU:OE1	2.39	0.55
1:B:289:ILE:O	1:B:292:ASN:N	2.38	0.55
1:B:397:TYR:HE1	1:B:427:CYS:SG	2.29	0.55
1:B:538:ALA:O	1:B:542:VAL:HG23	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:851:TRP:CD1	1:B:851:TRP:N	2.72	0.55
1:B:1021:GLY:O	1:B:1026:MET:CE	2.54	0.55
1:A:185:LYS:NZ	1:A:186:ILE:N	2.49	0.55
1:A:756:LEU:O	1:A:760:ILE:HB	2.05	0.55
1:B:114:TYR:HB3	1:B:950:ALA:HB2	1.88	0.55
1:B:282:ARG:O	1:B:286:LYS:CD	2.47	0.55
1:B:393:ILE:HA	1:B:444:ASP:O	2.06	0.55
1:B:799:TRP:HD1	1:B:800:PHE:CE1	2.24	0.55
1:B:1137:SER:HB3	1:B:1140:GLU:HB2	1.89	0.55
1:B:1154:ILE:CG1	1:B:1161:TYR:CE2	2.89	0.55
1:A:157:GLY:C	1:A:159:PHE:H	2.09	0.55
1:A:238:LYS:NZ	1:A:242:ALA:HB2	2.21	0.55
1:A:284:GLY:C	1:A:286:LYS:N	2.58	0.55
1:A:358:ALA:O	1:A:362:PHE:CB	2.54	0.55
1:A:762:SER:HA	1:A:765:THR:HG22	1.88	0.55
1:A:857:LEU:HD21	1:A:861:VAL:HG21	1.81	0.55
1:A:908:ARG:O	1:A:912:PHE:N	2.36	0.55
1:B:37:THR:O	1:B:40:ARG:N	2.39	0.55
1:B:38:MET:SD	1:B:362:PHE:HE1	2.25	0.55
1:B:104:GLU:O	1:B:107:MET:HB3	2.07	0.55
1:B:286:LYS:HE2	1:B:778:GLU:CG	2.36	0.55
1:B:959:LEU:HB3	1:B:964:LEU:HD12	1.89	0.55
1:B:1032:GLN:HB2	1:B:1091:PHE:HB2	1.89	0.55
1:B:1032:GLN:O	1:B:1090:VAL:HA	2.06	0.55
1:B:1154:ILE:HG21	1:B:1161:TYR:CZ	2.41	0.55
1:B:1183:ALA:O	1:B:1185:ALA:N	2.39	0.55
1:A:132:TRP:HD1	1:A:133:CYS:CA	2.18	0.55
1:A:138:ARG:NH2	1:B:515:GLN:HG2	2.21	0.55
1:A:697:LEU:HD12	1:A:698:LYS:CA	2.35	0.55
1:A:1046:ILE:CG2	1:A:1047:PRO:N	2.70	0.55
1:A:1153:PHE:CE2	1:A:1172:LEU:CD2	2.90	0.55
1:A:1214:LEU:HD23	1:A:1214:LEU:C	2.27	0.55
1:B:254:LEU:N	1:B:254:LEU:CD2	2.62	0.55
1:B:397:TYR:CB	1:B:398:PRO:HD2	2.35	0.55
1:B:708:VAL:HA	1:B:711:ILE:CG2	2.37	0.55
1:B:827:SER:OG	1:B:994:TYR:HD2	1.88	0.55
1:B:1040:TYR:O	1:B:1041:PRO:C	2.44	0.55
1:A:813:ARG:HA	1:A:817:ASP:OD2	2.05	0.55
1:A:821:VAL:HG12	1:A:1001:ALA:HA	1.88	0.55
1:A:843:ILE:HG22	1:A:844:ILE:HD13	1.87	0.55
1:A:860:ILE:O	1:A:864:ILE:HG12	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1065:VAL:HG13	1:A:1241:VAL:HA	1.88	0.55
1:B:251:GLU:OE2	1:B:811:THR:HB	2.06	0.55
1:B:318:ILE:HD11	1:B:325:GLY:H	1.70	0.55
1:B:493:MET:HA	1:B:496:ILE:CD1	2.24	0.55
1:B:1131:ASP:OD1	1:B:1134:ARG:HB2	2.07	0.55
1:B:1233:ILE:HG13	1:B:1233:ILE:O	2.06	0.55
1:A:114:TYR:HB3	1:A:950:ALA:CB	2.37	0.55
1:A:688:VAL:CG1	1:A:1006:ARG:NH1	2.68	0.55
1:A:1092:LEU:HD11	1:A:1104:TRP:CZ3	2.42	0.55
1:B:100:PHE:HB2	1:B:961:THR:HG23	1.89	0.55
1:B:175:VAL:CG1	1:B:176:SER:N	2.70	0.55
1:B:834:GLN:HE22	1:B:983:ALA:HB1	1.72	0.55
1:B:855:LEU:HG	1:B:856:LEU:N	2.21	0.55
1:B:1091:PHE:C	1:B:1093:ASP:H	2.10	0.55
1:B:1184:ARG:O	1:B:1187:VAL:HB	2.07	0.55
1:A:421:LEU:HD13	1:A:579:ILE:CD1	2.37	0.55
1:A:730:LYS:O	1:A:734:VAL:HG12	2.06	0.55
1:A:828:ARG:O	1:A:831:VAL:HB	2.07	0.55
1:A:867:ALA:HA	1:A:870:VAL:HG12	1.88	0.55
1:A:869:VAL:HG12	1:A:870:VAL:N	2.22	0.55
1:A:1019:THR:HB	1:A:1100:LEU:CA	2.37	0.55
1:A:1191:HIS:O	1:A:1221:ARG:HB2	2.07	0.55
1:B:709:VAL:HG22	1:B:710:GLY:N	2.21	0.55
1:B:958:TYR:HB3	1:B:966:THR:HG21	1.89	0.55
1:B:1045:SER:C	1:B:1046:ILE:O	2.42	0.55
1:A:795:GLN:O	1:A:796:ASP:CB	2.53	0.55
1:A:838:ASN:ND2	1:A:839:LEU:N	2.55	0.55
1:B:164:VAL:O	1:B:164:VAL:CG1	2.55	0.55
1:B:238:LYS:NZ	1:B:242:ALA:HB2	2.22	0.55
1:B:315:SER:HA	1:B:318:ILE:HG22	1.89	0.55
1:B:699:LEU:O	1:B:702:THR:HB	2.07	0.55
1:B:1039:ASN:ND2	1:B:1047:PRO:HA	2.21	0.55
1:B:1195:LEU:HD13	1:B:1195:LEU:N	2.22	0.55
1:A:360:GLU:HA	1:A:363:LYS:HE2	1.89	0.55
1:A:384:ILE:O	1:A:385:GLN:O	2.24	0.55
1:A:583:HIS:O	1:A:585:LEU:HD22	2.06	0.55
1:A:768:LEU:HD12	1:A:768:LEU:C	2.27	0.55
1:A:853:LEU:HA	1:A:856:LEU:HB2	1.88	0.55
1:A:888:GLY:O	1:A:892:ILE:HG12	2.07	0.55
1:A:910:GLN:O	1:A:911:LYS:C	2.43	0.55
1:A:962:GLN:O	1:A:963:GLN:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1077:GLN:O	1:A:1080:GLU:N	2.40	0.55
1:A:1129:TYR:O	1:A:1131:ASP:N	2.33	0.55
1:A:1195:LEU:HB2	1:A:1225:VAL:HA	1.89	0.55
1:B:399:SER:CB	1:B:402:GLU:OE2	2.48	0.55
1:B:405:ILE:HG22	1:B:428:GLY:HA2	1.88	0.55
1:B:701:SER:O	1:B:704:TRP:HB3	2.07	0.55
1:B:841:THR:O	1:B:845:ILE:HG12	2.07	0.55
1:B:1137:SER:HB3	1:B:1140:GLU:CB	2.38	0.55
1:B:1164:ARG:C	1:B:1166:GLY:H	2.11	0.55
1:B:1212:GLU:O	1:B:1215:ASP:HB3	2.08	0.55
1:B:1236:ALA:HB3	1:B:1239:ILE:CG1	2.36	0.55
1:A:118:GLY:CA	1:A:946:TYR:CD1	2.90	0.54
1:A:796:ASP:O	1:A:797:VAL:HB	2.07	0.54
1:A:964:LEU:HD13	1:A:964:LEU:C	2.28	0.54
1:B:60:HIS:O	1:B:63:ALA:CB	2.54	0.54
1:B:297:ALA:O	1:B:301:LEU:CB	2.55	0.54
1:B:398:PRO:HD3	1:B:440:TYR:CE2	2.40	0.54
1:B:438:ARG:NE	1:B:441:ASP:OD1	2.40	0.54
1:B:743:THR:O	1:B:747:ASN:HB2	2.07	0.54
1:B:910:GLN:O	1:B:911:LYS:C	2.45	0.54
1:A:38:MET:SD	1:A:362:PHE:CZ	3.01	0.54
1:A:148:PHE:CD2	1:A:913:GLU:OE2	2.60	0.54
1:A:201:ILE:HG22	1:A:202:ILE:HG23	1.89	0.54
1:A:211:THR:HA	1:A:214:ILE:HD12	1.89	0.54
1:A:711:ILE:HG12	1:A:715:ILE:HD11	1.89	0.54
1:A:797:VAL:C	1:A:801:ASP:HB2	2.28	0.54
1:A:889:SER:O	1:A:892:ILE:CG1	2.54	0.54
1:A:925:ARG:HG2	1:B:514:HIS:ND1	2.22	0.54
1:B:41:TYR:CG	1:B:42:ALA:N	2.71	0.54
1:B:327:VAL:HG12	1:B:331:PHE:HE1	1.72	0.54
1:B:422:VAL:HG23	1:B:422:VAL:O	2.08	0.54
1:B:1010:LYS:HD2	1:B:1010:LYS:N	2.16	0.54
1:B:1128:ALA:O	1:B:1129:TYR:C	2.46	0.54
1:A:382:ASP:O	1:A:384:ILE:HD12	2.07	0.54
1:A:859:ALA:O	1:A:863:ILE:CD1	2.54	0.54
1:A:886:LEU:HD12	1:A:887:GLU:N	2.23	0.54
1:A:1064:LEU:HD11	1:A:1242:ILE:CG2	2.38	0.54
1:A:1178:GLN:O	1:A:1182:ILE:HD13	2.06	0.54
1:B:115:THR:O	1:B:116:GLY:C	2.46	0.54
1:B:283:LEU:C	1:B:286:LYS:HB2	2.28	0.54
1:B:496:ILE:O	1:B:500:VAL:HG22	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:777:GLY:CA	1:B:822:LYS:HG3	2.36	0.54
1:B:862:PRO:O	1:B:866:ILE:HG13	2.08	0.54
1:B:908:ARG:O	1:B:909:GLU:C	2.45	0.54
1:A:324:ILE:H	1:A:324:ILE:HD12	1.71	0.54
1:A:730:LYS:HD3	1:A:750:LEU:CD2	2.37	0.54
1:A:760:ILE:HG22	1:A:761:ILE:N	2.21	0.54
1:A:792:MET:SD	1:A:814:LEU:HD21	2.47	0.54
1:A:1032:GLN:HB2	1:A:1091:PHE:HB2	1.89	0.54
1:A:1041:PRO:O	1:A:1042:THR:HB	2.07	0.54
1:A:1092:LEU:H	1:A:1097:ILE:HG12	1.73	0.54
1:B:153:ASN:O	1:B:155:GLU:OE2	2.24	0.54
1:B:267:LYS:O	1:B:790:LYS:NZ	2.40	0.54
1:B:414:LYS:HD2	1:B:414:LYS:N	2.21	0.54
1:B:690:PRO:CG	1:B:1006:ARG:NH1	2.70	0.54
1:B:699:LEU:O	1:B:700:ASN:C	2.45	0.54
1:B:722:PRO:HD3	1:B:982:MET:CE	2.35	0.54
1:B:942:GLN:OE1	1:B:942:GLN:N	2.40	0.54
1:A:362:PHE:HA	1:A:365:ILE:CD1	2.38	0.54
1:A:471:GLN:CG	1:A:472:GLU:H	2.03	0.54
1:A:705:PRO:HG2	1:A:706:TYR:H	1.72	0.54
1:A:747:ASN:O	1:A:748:SER:C	2.45	0.54
1:A:857:LEU:CD2	1:A:861:VAL:CG2	2.67	0.54
1:A:1027:LEU:O	1:A:1191:HIS:CD2	2.60	0.54
1:A:1063:ALA:CB	1:A:1239:ILE:HG13	2.38	0.54
1:A:1190:PRO:O	1:A:1191:HIS:ND1	2.40	0.54
1:A:1197:GLU:O	1:A:1200:SER:HB2	2.08	0.54
1:B:333:SER:O	1:B:336:ILE:HB	2.08	0.54
1:B:693:PHE:N	1:B:693:PHE:CD2	2.73	0.54
1:A:221:LEU:CD1	1:A:306:TYR:HA	2.37	0.54
1:A:267:LYS:O	1:A:790:LYS:HE2	2.08	0.54
1:A:282:ARG:HB3	1:A:778:GLU:HG2	1.90	0.54
1:A:318:ILE:O	1:A:318:ILE:CD1	2.53	0.54
1:A:359:TYR:O	1:A:362:PHE:HB3	2.07	0.54
1:A:509:ILE:HD12	1:A:509:ILE:C	2.27	0.54
1:A:685:ASP:C	1:A:686:GLU:HG3	2.27	0.54
1:A:718:GLY:O	1:A:722:PRO:CD	2.51	0.54
1:A:743:THR:O	1:A:747:ASN:HB2	2.07	0.54
1:A:837:ALA:CB	1:A:982:MET:HE2	2.38	0.54
1:A:843:ILE:HA	1:A:846:SER:OG	2.08	0.54
1:A:1173:SER:N	1:A:1176:GLN:NE2	2.56	0.54
1:B:57:ALA:O	1:B:60:HIS:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:158:TRP:O	1:B:158:TRP:HD1	1.91	0.54
1:B:212:LEU:HD13	1:B:215:LEU:HD12	1.89	0.54
1:B:797:VAL:HG21	1:B:1013:GLU:HG2	1.88	0.54
1:B:884:LYS:O	1:B:887:GLU:HG2	2.08	0.54
1:B:1076:VAL:HG13	1:B:1194:LEU:HB3	1.90	0.54
1:B:1231:SER:HA	1:B:1270:GLN:HE22	1.72	0.54
1:A:76:ASP:OD2	1:A:326:GLN:HG2	2.07	0.54
1:A:747:ASN:O	1:A:749:ASN:N	2.41	0.54
1:B:385:GLN:CD	1:B:386:GLY:N	2.54	0.54
1:A:734:VAL:HG11	1:A:750:LEU:CD1	2.38	0.54
1:B:385:GLN:NE2	1:B:415:SER:HB2	2.23	0.54
1:B:967:PHE:CD1	1:B:968:GLU:N	2.75	0.54
1:A:210:LEU:HA	1:A:213:VAL:CG2	2.30	0.54
1:A:762:SER:C	1:A:765:THR:HG22	2.26	0.54
1:A:899:ASN:HA	1:A:901:ARG:NH1	2.23	0.54
1:A:899:ASN:OD1	1:A:901:ARG:NH2	2.40	0.54
1:A:1193:LEU:HD13	1:A:1195:LEU:HD11	1.88	0.54
1:A:1218:ARG:HG2	1:A:1219:GLU:N	2.22	0.54
1:B:129:VAL:HB	1:B:935:GLY:HA2	1.89	0.54
1:B:140:ILE:HG13	1:B:179:ASN:ND2	2.21	0.54
1:B:188:MET:O	1:B:191:GLN:N	2.40	0.54
1:B:281:LYS:O	1:B:285:ILE:HG22	2.07	0.54
1:B:397:TYR:CE1	1:B:427:CYS:SG	3.01	0.54
1:B:711:ILE:O	1:B:714:ALA:HB3	2.06	0.54
1:B:896:ALA:CB	1:B:912:PHE:CE1	2.90	0.54
1:B:1180:ILE:O	1:B:1183:ALA:HB3	2.07	0.54
1:A:757:ILE:HG22	1:A:758:LEU:N	2.23	0.54
1:A:1055:GLU:HG2	1:A:1056:VAL:H	1.73	0.54
1:B:401:LYS:H	1:B:401:LYS:HD2	1.73	0.54
1:B:795:GLN:CD	1:B:1012:PRO:HG3	2.29	0.54
1:A:255:ALA:C	1:A:257:ILE:H	2.10	0.53
1:A:380:LYS:CE	1:A:461:TYR:CD2	2.90	0.53
1:A:465:ILE:HG22	1:A:465:ILE:O	2.08	0.53
1:A:731:VAL:HG22	1:A:750:LEU:CB	2.39	0.53
1:A:908:ARG:NE	1:A:908:ARG:N	2.56	0.53
1:A:1046:ILE:HG23	1:A:1047:PRO:CD	2.38	0.53
1:A:1057:LYS:HB2	1:A:1060:GLN:NE2	2.23	0.53
1:A:1090:VAL:CG2	1:A:1091:PHE:N	2.71	0.53
1:A:1203:ASP:C	1:A:1207:GLU:OE1	2.47	0.53
1:B:265:GLY:O	1:B:267:LYS:CG	2.56	0.53
1:B:362:PHE:HA	1:B:365:ILE:CG1	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:722:PRO:HG2	1:B:841:THR:HB	1.89	0.53
1:B:941:THR:O	1:B:944:MET:HB2	2.08	0.53
1:B:1091:PHE:CG	1:B:1094:GLY:O	2.61	0.53
1:B:1178:GLN:O	1:B:1182:ILE:HD13	2.07	0.53
1:A:282:ARG:O	1:A:286:LYS:CD	2.50	0.53
1:A:848:ILE:O	1:A:848:ILE:HD12	2.08	0.53
1:A:968:GLU:CD	1:A:968:GLU:C	2.67	0.53
1:B:261:ILE:CG2	1:B:1106:ARG:NH1	2.70	0.53
1:B:1116:PRO:O	1:B:1117:ILE:CB	2.56	0.53
1:A:158:TRP:CZ2	1:A:900:PHE:CB	2.91	0.53
1:A:174:ASP:O	1:A:175:VAL:C	2.46	0.53
1:A:215:LEU:O	1:A:219:PRO:HB2	2.08	0.53
1:A:286:LYS:HE2	1:A:778:GLU:HG2	1.91	0.53
1:A:498:LYS:NZ	1:A:502:GLU:CG	2.71	0.53
1:A:721:GLN:HB3	1:A:722:PRO:CD	2.36	0.53
1:A:1008:ILE:O	1:A:1010:LYS:NZ	2.42	0.53
1:A:1023:LYS:H	1:A:1023:LYS:CD	2.21	0.53
1:A:1137:SER:HB3	1:A:1140:GLU:CB	2.39	0.53
1:B:207:GLY:HA3	1:B:211:THR:H	1.72	0.53
1:B:995:ALA:HB3	1:B:996:LYS:HD3	1.91	0.53
1:B:1077:GLN:O	1:B:1080:GLU:N	2.40	0.53
1:B:1102:VAL:HG22	1:B:1103:GLN:N	2.24	0.53
1:A:163:ASP:O	1:A:165:GLY:N	2.41	0.53
1:A:211:THR:HA	1:A:214:ILE:CD1	2.38	0.53
1:A:584:ARG:HA	1:A:584:ARG:NE	2.23	0.53
1:A:716:ILE:HD12	1:A:717:ASN:N	2.23	0.53
1:A:756:LEU:HD12	1:A:756:LEU:C	2.28	0.53
1:A:756:LEU:CD1	1:A:757:ILE:N	2.70	0.53
1:A:1185:ALA:O	1:A:1188:ARG:N	2.42	0.53
1:B:686:GLU:HB3	1:B:688:VAL:CG1	2.38	0.53
1:B:837:ALA:HB1	1:B:982:MET:HE2	1.91	0.53
1:B:843:ILE:HA	1:B:846:SER:CB	2.38	0.53
1:B:939:SER:O	1:B:942:GLN:N	2.41	0.53
1:B:1063:ALA:CB	1:B:1239:ILE:HG13	2.38	0.53
1:A:548:LEU:HD13	1:A:573:ARG:HG2	1.91	0.53
1:A:713:CYS:SG	1:A:768:LEU:HD11	2.48	0.53
1:A:794:ARG:C	1:A:795:GLN:O	2.44	0.53
1:A:1039:ASN:ND2	1:A:1047:PRO:HA	2.24	0.53
1:B:210:LEU:HD13	1:B:210:LEU:C	2.29	0.53
1:B:286:LYS:HG2	1:B:778:GLU:CG	2.39	0.53
1:B:303:TYR:O	1:B:306:TYR:HB3	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:393:ILE:HD13	1:B:409:LEU:O	2.09	0.53
1:B:761:ILE:O	1:B:764:ILE:HB	2.09	0.53
1:B:849:TYR:CE2	1:B:972:LEU:HB3	2.43	0.53
1:B:886:LEU:HD12	1:B:887:GLU:N	2.24	0.53
1:A:401:LYS:N	1:A:401:LYS:HD2	2.23	0.53
1:A:718:GLY:HA2	1:A:837:ALA:CB	2.36	0.53
1:A:768:LEU:HG	1:A:769:GLN:H	1.72	0.53
1:A:807:THR:O	1:A:811:THR:HG23	2.08	0.53
1:A:910:GLN:O	1:A:912:PHE:N	2.42	0.53
1:B:153:ASN:HD21	1:B:376:LYS:HE2	1.72	0.53
1:B:214:ILE:CD1	1:B:330:VAL:CG1	2.86	0.53
1:B:282:ARG:N	1:B:282:ARG:NH1	2.56	0.53
1:B:506:TYR:CD1	1:B:509:ILE:HD11	2.44	0.53
1:B:716:ILE:C	1:B:716:ILE:HD12	2.28	0.53
1:B:968:GLU:O	1:B:970:VAL:N	2.42	0.53
1:A:96:LYS:HG2	1:A:962:GLN:HB2	1.90	0.53
1:A:393:ILE:HD13	1:A:393:ILE:H	1.73	0.53
1:A:426:GLY:CA	1:A:429:LYS:NZ	2.72	0.53
1:A:533:GLN:O	1:A:536:ALA:HB3	2.08	0.53
1:A:742:GLU:O	1:A:746:GLN:HG2	2.08	0.53
1:B:61:GLY:HA2	1:B:194:ALA:HB2	1.91	0.53
1:B:285:ILE:O	1:B:289:ILE:CG1	2.44	0.53
1:B:318:ILE:HG12	1:B:324:ILE:HD12	1.91	0.53
1:B:362:PHE:C	1:B:365:ILE:H	2.12	0.53
1:B:787:MET:HB3	1:B:1008:ILE:HD11	1.91	0.53
1:B:789:PHE:HD2	1:B:789:PHE:C	2.11	0.53
1:B:808:GLY:O	1:B:809:ALA:C	2.47	0.53
1:B:907:THR:N	1:B:908:ARG:CZ	2.71	0.53
1:B:1218:ARG:C	1:B:1220:GLY:N	2.60	0.53
1:A:37:THR:O	1:A:38:MET:C	2.45	0.53
1:A:283:LEU:HA	1:A:286:LYS:CB	2.39	0.53
1:A:508:PHE:CD1	1:A:509:ILE:N	2.77	0.53
1:A:792:MET:HE3	1:A:810:LEU:HB3	1.91	0.53
1:A:839:LEU:O	1:A:840:GLY:C	2.46	0.53
1:B:227:ILE:HG22	1:B:231:ILE:HD11	1.91	0.53
1:B:257:ILE:O	1:B:261:ILE:N	2.41	0.53
1:B:267:LYS:HB2	1:B:267:LYS:NZ	2.22	0.53
1:B:345:SER:HB3	1:B:346:PRO:HD3	1.90	0.53
1:B:693:PHE:CD2	1:B:694:TRP:N	2.74	0.53
1:B:756:LEU:O	1:B:760:ILE:HB	2.08	0.53
1:B:916:TYR:N	1:B:916:TYR:HD1	2.06	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:982:MET:CG	1:B:983:ALA:N	2.71	0.53
1:B:1084:ASP:OD1	1:B:1085:PRO:HD2	2.09	0.53
1:B:1197:GLU:O	1:B:1200:SER:HB2	2.09	0.53
1:B:1218:ARG:CG	1:B:1219:GLU:N	2.70	0.53
1:A:513:PRO:O	1:A:518:THR:OG1	2.26	0.53
1:A:515:GLN:O	1:A:518:THR:OG1	2.22	0.53
1:A:773:PHE:CD1	1:A:773:PHE:C	2.82	0.53
1:A:853:LEU:HD21	1:A:956:GLY:HA2	1.90	0.53
1:A:1018:SER:O	1:A:1020:GLN:N	2.41	0.53
1:A:1046:ILE:CG2	1:A:1047:PRO:CD	2.87	0.53
1:A:1092:LEU:O	1:A:1093:ASP:HB2	2.07	0.53
1:A:1108:GLN:HE21	1:A:1108:GLN:H	1.55	0.53
1:B:308:LEU:HD23	1:B:309:ALA:H	1.74	0.53
1:B:367:ASN:C	1:B:369:PRO:HD3	2.29	0.53
1:A:414:LYS:HD2	1:A:414:LYS:N	2.23	0.53
1:A:500:VAL:HG12	1:A:505:ALA:HB3	1.90	0.53
1:A:527:LEU:N	1:A:527:LEU:CD2	2.72	0.53
1:A:964:LEU:HD13	1:A:965:MET:CA	2.37	0.53
1:A:1056:VAL:HG23	1:A:1062:LEU:HB2	1.89	0.53
1:A:1258:ALA:HA	1:A:1260:LYS:HZ1	1.74	0.53
1:B:81:VAL:HG13	1:B:99:MET:CE	2.39	0.53
1:B:266:GLN:HA	1:B:266:GLN:OE1	2.08	0.53
1:B:697:LEU:CD1	1:B:698:LYS:N	2.71	0.53
1:B:1150:ILE:CA	1:B:1179:ARG:HD3	2.38	0.53
1:B:1178:GLN:OE1	1:B:1178:GLN:HA	2.08	0.53
1:B:1218:ARG:HG2	1:B:1219:GLU:N	2.23	0.53
1:A:421:LEU:HD22	1:A:579:ILE:HD11	1.89	0.52
1:A:688:VAL:CG2	1:A:1003:HIS:CE1	2.92	0.52
1:A:702:THR:C	1:A:704:TRP:H	2.12	0.52
1:A:902:THR:C	1:A:904:VAL:N	2.62	0.52
1:A:1066:GLY:N	1:A:1072:LYS:HE2	2.24	0.52
1:B:68:MET:O	1:B:71:PHE:HB3	2.10	0.52
1:B:133:CYS:CB	1:B:931:ALA:HB1	2.39	0.52
1:B:214:ILE:HD11	1:B:330:VAL:HG11	1.91	0.52
1:B:252:GLU:O	1:B:254:LEU:HD21	2.08	0.52
1:B:279:GLU:HG2	1:B:782:LYS:HZ2	1.71	0.52
1:B:421:LEU:CD2	1:B:579:ILE:HD11	2.38	0.52
1:B:509:ILE:HA	1:B:512:LEU:HD23	1.91	0.52
1:B:914:THR:O	1:B:917:ALA:N	2.40	0.52
1:B:1011:THR:N	1:B:1012:PRO:CD	2.71	0.52
1:B:1065:VAL:HG13	1:B:1065:VAL:O	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1067:SER:OG	1:B:1244:ASN:ND2	2.42	0.52
1:B:1226:ILE:C	1:B:1226:ILE:HD12	2.30	0.52
1:A:110:TYR:C	1:A:113:TYR:HD2	2.10	0.52
1:A:157:GLY:HA2	1:A:160:ASP:CB	2.38	0.52
1:A:157:GLY:HA2	1:A:160:ASP:HB2	1.91	0.52
1:A:210:LEU:CA	1:A:213:VAL:HG23	2.31	0.52
1:A:314:THR:HG22	1:A:315:SER:N	2.24	0.52
1:A:411:LEU:HD23	1:A:412:LYS:H	1.70	0.52
1:A:438:ARG:NE	1:A:441:ASP:OD1	2.42	0.52
1:A:693:PHE:O	1:A:695:ARG:N	2.42	0.52
1:A:1019:THR:O	1:A:1020:GLN:HB3	2.09	0.52
1:A:1164:ARG:C	1:A:1166:GLY:N	2.59	0.52
1:B:210:LEU:O	1:B:213:VAL:HB	2.09	0.52
1:B:401:LYS:N	1:B:401:LYS:HD2	2.24	0.52
1:B:530:GLY:CA	1:B:557:LEU:HD11	2.39	0.52
1:B:703:GLU:HA	1:B:783:ARG:HH12	1.74	0.52
1:B:757:ILE:HG22	1:B:758:LEU:N	2.24	0.52
1:B:1063:ALA:HB1	1:B:1233:ILE:HD11	1.90	0.52
1:A:106:GLU:OE2	1:A:109:THR:HB	2.09	0.52
1:A:195:THR:HB	1:A:340:SER:CB	2.39	0.52
1:A:685:ASP:C	1:A:686:GLU:CD	2.67	0.52
1:A:896:ALA:HB2	1:A:912:PHE:CE1	2.45	0.52
1:B:267:LYS:HB2	1:B:267:LYS:HZ3	1.72	0.52
1:B:318:ILE:HA	1:B:323:SER:HA	1.92	0.52
1:B:496:ILE:HD12	1:B:496:ILE:N	2.22	0.52
1:B:520:VAL:HG12	1:B:520:VAL:O	2.08	0.52
1:B:1064:LEU:HD11	1:B:1242:ILE:CG2	2.39	0.52
1:B:1078:LEU:HD22	1:B:1085:PRO:HD3	1.91	0.52
1:A:604:GLU:CD	1:A:617:ILE:H	2.12	0.52
1:A:692:SER:OG	1:A:696:ILE:HG23	2.10	0.52
1:A:827:SER:O	1:A:831:VAL:HG23	2.09	0.52
1:A:912:PHE:C	1:A:914:THR:H	2.12	0.52
1:A:1023:LYS:HD2	1:A:1023:LYS:N	2.23	0.52
1:B:217:ILE:CD1	1:B:218:SER:N	2.68	0.52
1:B:302:ILE:HA	1:B:305:SER:HB3	1.91	0.52
1:B:375:SER:O	1:B:376:LYS:CD	2.57	0.52
1:B:770:GLY:HA2	1:B:773:PHE:CE2	2.44	0.52
1:B:849:TYR:HB3	1:B:854:THR:CB	2.40	0.52
1:B:1048:VAL:HG21	1:B:1074:THR:HG21	1.90	0.52
1:A:474:VAL:HG23	1:A:523:ARG:CZ	2.39	0.52
1:A:523:ARG:CD	1:A:524:GLY:N	2.71	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:543:ARG:NH2	1:A:905:SER:O	2.43	0.52
1:A:691:ALA:O	1:A:692:SER:HB2	2.09	0.52
1:A:696:ILE:HG22	1:A:1005:ILE:HD11	1.90	0.52
1:A:701:SER:HA	1:A:704:TRP:HB3	1.91	0.52
1:A:973:VAL:O	1:A:977:ILE:HG13	2.09	0.52
1:A:1062:LEU:HD13	1:A:1063:ALA:N	2.25	0.52
1:B:288:ALA:O	1:B:291:ALA:HB3	2.10	0.52
1:B:467:GLY:H	1:B:545:PRO:CB	2.22	0.52
1:B:768:LEU:C	1:B:768:LEU:HD12	2.30	0.52
1:B:908:ARG:O	1:B:912:PHE:N	2.39	0.52
1:B:940:PHE:O	1:B:944:MET:HG2	2.08	0.52
1:A:58:ILE:O	1:A:62:VAL:HG23	2.10	0.52
1:A:122:LEU:HD13	1:A:943:ALA:HB2	1.91	0.52
1:A:311:TRP:NE1	1:A:754:LEU:CD1	2.72	0.52
1:A:591:ALA:HB3	1:A:594:ILE:HD11	1.92	0.52
1:A:777:GLY:HA2	1:A:822:LYS:HG3	1.92	0.52
1:A:1064:LEU:HD11	1:A:1242:ILE:HG21	1.90	0.52
1:A:1233:ILE:O	1:A:1233:ILE:HG13	2.08	0.52
1:B:214:ILE:O	1:B:215:LEU:C	2.48	0.52
1:B:585:LEU:HD12	1:B:618:TYR:CE1	2.45	0.52
1:B:697:LEU:HD12	1:B:698:LYS:CA	2.40	0.52
1:A:33:VAL:O	1:A:35:VAL:N	2.42	0.52
1:A:530:GLY:CA	1:A:557:LEU:HD11	2.40	0.52
1:A:1071:GLY:O	1:A:1075:VAL:HG23	2.09	0.52
1:B:503:ALA:O	1:B:504:ASN:C	2.47	0.52
1:B:579:ILE:HG23	1:B:579:ILE:O	2.09	0.52
1:B:955:PHE:O	1:B:958:TYR:HB2	2.09	0.52
1:B:1056:VAL:HG22	1:B:1060:GLN:OE1	2.10	0.52
1:A:580:VAL:HG13	1:A:580:VAL:O	2.09	0.52
1:A:958:TYR:CE2	1:A:959:LEU:HB2	2.45	0.52
1:A:967:PHE:CG	1:A:968:GLU:N	2.76	0.52
1:A:1218:ARG:HH22	1:A:1235:ASN:ND2	1.98	0.52
1:B:278:GLU:O	1:B:282:ARG:NH1	2.43	0.52
1:B:290:THR:HA	1:B:293:ILE:CB	2.40	0.52
1:B:471:GLN:CG	1:B:472:GLU:H	1.98	0.52
1:B:833:PHE:CG	1:B:834:GLN:N	2.75	0.52
1:B:962:GLN:O	1:B:963:GLN:HB2	2.09	0.52
1:B:1027:LEU:HG	1:B:1028:GLU:H	1.75	0.52
1:B:1043:ARG:NH2	1:B:1086:MET:HG2	2.25	0.52
1:B:1117:ILE:CG1	1:B:1118:LEU:N	2.73	0.52
1:A:421:LEU:CD2	1:A:579:ILE:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:832:ILE:O	1:A:835:ASN:HB3	2.10	0.52
1:A:863:ILE:HD12	1:A:863:ILE:N	2.24	0.52
1:A:1022:LEU:O	1:A:1022:LEU:HD22	2.06	0.52
1:A:1062:LEU:C	1:A:1062:LEU:CD1	2.77	0.52
1:A:1135:VAL:O	1:A:1137:SER:N	2.37	0.52
1:A:1242:ILE:HD12	1:A:1246:LYS:O	2.10	0.52
1:B:36:LEU:HG	1:B:37:THR:N	2.25	0.52
1:B:70:ILE:CG2	1:B:113:TYR:CD1	2.88	0.52
1:B:147:PHE:O	1:B:150:ALA:HB3	2.10	0.52
1:B:365:ILE:O	1:B:366:ASP:C	2.48	0.52
1:B:721:GLN:O	1:B:722:PRO:C	2.44	0.52
1:B:1148:ALA:HB1	1:B:1179:ARG:O	2.10	0.52
1:B:1177:LYS:HA	1:B:1180:ILE:CD1	2.40	0.52
1:A:131:PHE:HZ	1:A:185:LYS:HZ1	1.50	0.52
1:A:188:MET:SD	1:A:189:PHE:N	2.83	0.52
1:A:282:ARG:N	1:A:282:ARG:NH1	2.58	0.52
1:A:381:PRO:HG2	1:A:381:PRO:O	2.09	0.52
1:A:711:ILE:CD1	1:A:832:ILE:HG21	2.40	0.52
1:A:768:LEU:CG	1:A:769:GLN:N	2.73	0.52
1:A:791:SER:N	1:A:794:ARG:HH21	2.07	0.52
1:A:841:THR:O	1:A:845:ILE:HG12	2.10	0.52
1:A:857:LEU:HD23	1:A:857:LEU:O	2.09	0.52
1:A:984:VAL:O	1:A:987:VAL:HG12	2.09	0.52
1:B:498:LYS:NZ	1:B:502:GLU:CG	2.73	0.52
1:B:789:PHE:C	1:B:789:PHE:CD2	2.83	0.52
1:B:1207:GLU:O	1:B:1208:LYS:C	2.44	0.52
1:A:54:THR:O	1:A:58:ILE:HD13	2.10	0.51
1:A:195:THR:HG23	1:A:196:PHE:H	1.74	0.51
1:A:225:ALA:HB2	1:A:302:ILE:CG2	2.39	0.51
1:A:1208:LYS:HD3	1:A:1209:VAL:N	2.25	0.51
1:B:45:LEU:HD22	1:B:45:LEU:N	2.25	0.51
1:B:85:SER:O	1:B:88:SER:HB2	2.10	0.51
1:B:235:PHE:O	1:B:239:GLU:HG2	2.10	0.51
1:B:421:LEU:HD22	1:B:579:ILE:HD11	1.92	0.51
1:B:969:ASN:O	1:B:972:LEU:N	2.42	0.51
1:B:1044:PRO:C	1:B:1046:ILE:H	2.13	0.51
1:A:36:LEU:CG	1:A:37:THR:N	2.73	0.51
1:A:221:LEU:HD12	1:A:306:TYR:HA	1.92	0.51
1:A:821:VAL:O	1:A:822:LYS:C	2.47	0.51
1:A:1094:GLY:O	1:A:1095:LYS:CG	2.51	0.51
1:B:58:ILE:N	1:B:58:ILE:HD12	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:290:THR:HG21	1:B:771:PHE:HA	1.90	0.51
1:B:492:THR:CB	1:B:495:GLU:OE2	2.56	0.51
1:B:768:LEU:HD12	1:B:769:GLN:N	2.25	0.51
1:A:183:GLY:HA2	1:A:186:ILE:CG2	2.41	0.51
1:A:291:ALA:HA	1:A:294:SER:CB	2.36	0.51
1:A:304:ALA:HB2	1:A:758:LEU:HB3	1.91	0.51
1:A:382:ASP:O	1:A:384:ILE:CD1	2.58	0.51
1:A:573:ARG:O	1:A:576:ARG:N	2.43	0.51
1:A:585:LEU:HD22	1:A:585:LEU:H	1.75	0.51
1:A:711:ILE:HG13	1:A:832:ILE:CG2	2.37	0.51
1:B:49:TYR:HE2	1:B:130:SER:C	2.13	0.51
1:B:500:VAL:HG21	1:B:516:PHE:CZ	2.45	0.51
1:B:882:ASP:O	1:B:886:LEU:HG	2.09	0.51
1:A:61:GLY:O	1:A:65:PRO:CD	2.50	0.51
1:A:65:PRO:O	1:A:68:MET:HB2	2.10	0.51
1:A:221:LEU:HD11	1:A:309:ALA:HB3	1.91	0.51
1:A:227:ILE:HG22	1:A:231:ILE:HD11	1.93	0.51
1:A:365:ILE:HG22	1:A:366:ASP:N	2.25	0.51
1:A:585:LEU:HA	1:A:588:VAL:HG23	1.88	0.51
1:A:697:LEU:CD1	1:A:698:LYS:N	2.69	0.51
1:A:711:ILE:CD1	1:A:832:ILE:CD1	2.87	0.51
1:A:720:LEU:HD13	1:A:761:ILE:CG2	2.38	0.51
1:A:1016:SER:OG	1:A:1017:TYR:N	2.42	0.51
1:A:1018:SER:O	1:A:1020:GLN:O	2.28	0.51
1:A:1026:MET:CE	1:A:1095:LYS:HE2	2.40	0.51
1:B:289:ILE:O	1:B:291:ALA:N	2.43	0.51
1:B:514:HIS:O	1:B:515:GLN:CB	2.59	0.51
1:B:706:TYR:O	1:B:707:PHE:CG	2.64	0.51
1:B:1076:VAL:HG13	1:B:1194:LEU:HD13	1.91	0.51
1:A:159:PHE:O	1:A:160:ASP:C	2.48	0.51
1:A:359:TYR:HE1	1:A:360:GLU:OE1	1.93	0.51
1:A:424:ASN:CB	1:A:598:ASP:OD1	2.58	0.51
1:A:734:VAL:HG11	1:A:750:LEU:HD11	1.93	0.51
1:A:788:VAL:O	1:A:791:SER:HB2	2.10	0.51
1:A:797:VAL:C	1:A:799:TRP:H	2.12	0.51
1:A:916:TYR:N	1:A:916:TYR:HD1	2.09	0.51
1:A:1231:SER:HA	1:A:1270:GLN:HE22	1.76	0.51
1:B:165:GLY:C	1:B:167:LEU:N	2.64	0.51
1:B:215:LEU:C	1:B:219:PRO:HD2	2.31	0.51
1:B:255:ALA:C	1:B:257:ILE:H	2.14	0.51
1:B:479:THR:HA	1:B:518:THR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:711:ILE:HD12	1:B:832:ILE:HD13	1.93	0.51
1:A:35:VAL:O	1:A:39:PHE:CB	2.45	0.51
1:A:425:SER:OG	1:A:598:ASP:O	2.28	0.51
1:A:520:VAL:HG12	1:A:520:VAL:O	2.09	0.51
1:A:607:ASN:HB3	1:A:610:GLU:CG	2.39	0.51
1:A:731:VAL:HG22	1:A:750:LEU:HB3	1.93	0.51
1:A:792:MET:HA	1:A:795:GLN:HB2	1.93	0.51
1:A:843:ILE:HA	1:A:846:SER:CB	2.41	0.51
1:A:856:LEU:HD21	1:A:952:ALA:HA	1.91	0.51
1:A:908:ARG:O	1:A:909:GLU:C	2.49	0.51
1:A:1118:LEU:HD12	1:A:1118:LEU:H	1.73	0.51
1:B:122:LEU:HD12	1:B:939:SER:HB2	1.92	0.51
1:B:131:PHE:O	1:B:132:TRP:C	2.47	0.51
1:B:484:ILE:CG2	1:B:496:ILE:HG13	2.38	0.51
1:B:813:ARG:HD3	1:B:817:ASP:OD2	2.10	0.51
1:B:853:LEU:HG	1:B:973:VAL:HG21	1.92	0.51
1:B:995:ALA:N	1:B:996:LYS:HZ1	1.98	0.51
1:B:1077:GLN:O	1:B:1080:GLU:HB2	2.11	0.51
1:B:1090:VAL:CG2	1:B:1091:PHE:N	2.72	0.51
1:A:792:MET:CE	1:A:810:LEU:HB3	2.40	0.51
1:A:892:ILE:CB	1:A:916:TYR:CZ	2.91	0.51
1:A:925:ARG:NE	1:B:519:LEU:HD12	2.26	0.51
1:A:957:ALA:O	1:A:958:TYR:C	2.49	0.51
1:A:1020:GLN:HG2	1:A:1100:LEU:CD1	2.40	0.51
1:A:1063:ALA:CB	1:A:1236:ALA:HB1	2.31	0.51
1:A:1202:LEU:HG	1:A:1206:SER:HB2	1.93	0.51
1:B:38:MET:O	1:B:39:PHE:C	2.45	0.51
1:B:186:ILE:O	1:B:187:GLY:C	2.48	0.51
1:B:202:ILE:O	1:B:204:PHE:N	2.43	0.51
1:B:504:ASN:CG	1:B:504:ASN:O	2.48	0.51
1:B:773:PHE:C	1:B:773:PHE:CD1	2.83	0.51
1:B:816:ASN:CG	1:B:817:ASP:N	2.64	0.51
1:B:905:SER:CB	1:B:908:ARG:NH1	2.65	0.51
1:B:1197:GLU:O	1:B:1198:ALA:C	2.48	0.51
1:A:36:LEU:HD12	1:A:37:THR:N	2.25	0.51
1:A:44:TRP:CG	1:A:45:LEU:HD22	2.45	0.51
1:A:123:ILE:O	1:A:127:ILE:HG12	2.11	0.51
1:A:202:ILE:HD12	1:A:203:GLY:H	1.73	0.51
1:A:220:VAL:O	1:A:223:LEU:HB2	2.11	0.51
1:A:239:GLU:OE1	1:A:239:GLU:HA	2.10	0.51
1:A:324:ILE:HB	1:A:326:GLN:HB2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:424:ASN:C	1:A:426:GLY:H	2.15	0.51
1:A:447:VAL:HG22	1:A:454:ILE:CG2	2.41	0.51
1:A:509:ILE:CD1	1:A:510:MET:HG2	2.40	0.51
1:A:535:ILE:O	1:A:538:ALA:HB3	2.11	0.51
1:A:838:ASN:HB2	1:A:982:MET:SD	2.51	0.51
1:A:857:LEU:O	1:A:858:LEU:C	2.49	0.51
1:B:153:ASN:HA	1:B:155:GLU:OE2	2.10	0.51
1:B:507:ASP:OD1	1:B:508:PHE:N	2.44	0.51
1:B:554:THR:OG1	1:B:562:GLU:HG3	2.11	0.51
1:B:762:SER:CA	1:B:765:THR:HG22	2.40	0.51
1:B:1173:SER:HB3	1:B:1176:GLN:CD	2.31	0.51
1:A:175:VAL:CG1	1:A:176:SER:N	2.73	0.51
1:A:227:ILE:HG22	1:A:231:ILE:CD1	2.41	0.51
1:A:404:GLN:O	1:A:405:ILE:C	2.48	0.51
1:A:551:ASP:C	1:A:553:ALA:H	2.13	0.51
1:A:773:PHE:HB2	1:A:829:LEU:CD1	2.39	0.51
1:A:777:GLY:CA	1:A:822:LYS:HG3	2.41	0.51
1:A:955:PHE:O	1:A:958:TYR:CB	2.59	0.51
1:A:968:GLU:O	1:A:970:VAL:N	2.44	0.51
1:A:969:ASN:N	1:A:969:ASN:ND2	2.58	0.51
1:A:1173:SER:N	1:A:1176:GLN:HE22	2.02	0.51
1:B:41:TYR:CE2	1:B:42:ALA:HB2	2.46	0.51
1:B:151:ILE:HD12	1:B:167:LEU:HD21	1.92	0.51
1:B:438:ARG:HB2	1:B:454:ILE:HD11	1.93	0.51
1:B:721:GLN:HB3	1:B:722:PRO:CD	2.40	0.51
1:B:764:ILE:HG22	1:B:765:THR:N	2.24	0.51
1:B:1064:LEU:HD11	1:B:1242:ILE:HG21	1.93	0.51
1:A:49:TYR:OH	1:A:130:SER:CB	2.56	0.51
1:A:158:TRP:CZ2	1:A:900:PHE:HA	2.46	0.51
1:A:214:ILE:HG23	1:A:334:VAL:HG11	1.91	0.51
1:A:253:VAL:CA	1:A:254:LEU:HD22	2.41	0.51
1:A:315:SER:CB	1:A:747:ASN:ND2	2.71	0.51
1:A:327:VAL:O	1:A:330:VAL:HG23	2.11	0.51
1:A:496:ILE:HD12	1:A:496:ILE:N	2.25	0.51
1:A:695:ARG:C	1:A:697:LEU:N	2.64	0.51
1:A:1030:ASN:OD1	1:A:1058:LYS:HB3	2.11	0.51
1:A:1156:SER:O	1:A:1157:LEU:C	2.49	0.51
1:A:1170:THR:O	1:A:1170:THR:HG22	2.10	0.51
1:B:431:THR:HG22	1:B:435:LEU:HD21	1.92	0.51
1:B:557:LEU:CD2	1:B:565:VAL:HG21	2.40	0.51
1:B:593:VAL:C	1:B:594:ILE:HD12	2.31	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:861:VAL:O	1:B:862:PRO:C	2.48	0.51
1:B:881:LYS:HB2	1:B:881:LYS:HZ2	1.75	0.51
1:B:1214:LEU:HD23	1:B:1214:LEU:C	2.30	0.51
1:B:1243:GLN:O	1:B:1244:ASN:C	2.49	0.51
1:A:104:GLU:O	1:A:107:MET:HB3	2.11	0.50
1:A:798:SER:HA	1:A:801:ASP:CB	2.32	0.50
1:A:857:LEU:C	1:A:859:ALA:N	2.62	0.50
1:A:964:LEU:HD22	1:A:965:MET:N	2.12	0.50
1:A:1078:LEU:HD23	1:A:1083:TYR:O	2.11	0.50
1:B:228:TRP:O	1:B:231:ILE:HB	2.11	0.50
1:B:584:ARG:O	1:B:587:THR:N	2.40	0.50
1:B:797:VAL:C	1:B:799:TRP:N	2.64	0.50
1:B:798:SER:N	1:B:801:ASP:HB2	2.26	0.50
1:B:1156:SER:O	1:B:1157:LEU:C	2.50	0.50
1:A:129:VAL:HG22	1:A:938:PHE:CD1	2.46	0.50
1:A:362:PHE:CA	1:A:365:ILE:HD12	2.41	0.50
1:A:585:LEU:HA	1:A:588:VAL:HG21	1.92	0.50
1:A:589:ARG:O	1:A:591:ALA:N	2.39	0.50
1:A:696:ILE:O	1:A:700:ASN:CB	2.60	0.50
1:A:753:LEU:HD12	1:A:757:ILE:HG12	1.92	0.50
1:A:787:MET:HB3	1:A:1008:ILE:CD1	2.40	0.50
1:A:1044:PRO:C	1:A:1046:ILE:H	2.14	0.50
1:A:1208:LYS:NZ	1:A:1209:VAL:HA	2.25	0.50
1:B:44:TRP:CD1	1:B:45:LEU:HD13	2.46	0.50
1:B:324:ILE:H	1:B:324:ILE:HD12	1.75	0.50
1:B:459:VAL:C	1:B:461:TYR:N	2.64	0.50
1:B:756:LEU:HA	1:B:760:ILE:HD13	1.93	0.50
1:B:1037:VAL:HG21	1:B:1087:ALA:HB3	1.92	0.50
1:B:1052:LEU:CG	1:B:1054:LEU:HD21	2.42	0.50
1:A:267:LYS:NZ	1:A:267:LYS:CB	2.71	0.50
1:A:303:TYR:O	1:A:306:TYR:CB	2.59	0.50
1:A:531:GLN:O	1:A:532:LYS:C	2.49	0.50
1:A:981:ALA:O	1:A:984:VAL:HB	2.11	0.50
1:A:1076:VAL:CG1	1:A:1194:LEU:HD13	2.41	0.50
1:B:33:VAL:N	1:B:36:LEU:HD11	2.26	0.50
1:B:54:THR:O	1:B:57:ALA:HB3	2.12	0.50
1:B:328:LEU:O	1:B:329:THR:C	2.49	0.50
1:B:462:LEU:HG	1:B:466:ILE:CD1	2.41	0.50
1:B:552:GLU:O	1:B:555:SER:N	2.43	0.50
1:B:747:ASN:O	1:B:748:SER:C	2.50	0.50
1:B:760:ILE:HD12	1:B:760:ILE:N	2.26	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:970:VAL:HG23	1:B:971:LEU:CD2	2.40	0.50
1:A:114:TYR:HB2	1:A:950:ALA:HB2	1.91	0.50
1:A:411:LEU:HD23	1:A:412:LYS:O	2.11	0.50
1:A:489:GLU:H	1:A:489:GLU:CD	2.15	0.50
1:A:552:GLU:O	1:A:555:SER:HB2	2.12	0.50
1:A:694:TRP:O	1:A:698:LYS:HG3	2.10	0.50
1:A:782:LYS:C	1:A:784:LEU:N	2.64	0.50
1:A:849:TYR:OH	1:A:972:LEU:O	2.15	0.50
1:A:993:ASP:N	1:A:996:LYS:NZ	2.59	0.50
1:A:1054:LEU:HD22	1:A:1054:LEU:N	2.27	0.50
1:B:131:PHE:CE2	1:B:186:ILE:HG22	2.46	0.50
1:B:872:MET:HE2	1:B:872:MET:O	2.11	0.50
1:B:994:TYR:O	1:B:994:TYR:CD1	2.64	0.50
1:B:1139:GLU:H	1:B:1139:GLU:CD	2.15	0.50
1:B:1258:ALA:HA	1:B:1260:LYS:NZ	2.27	0.50
1:A:103:LEU:HB2	1:A:960:VAL:HG23	1.93	0.50
1:A:210:LEU:C	1:A:212:LEU:N	2.61	0.50
1:A:278:GLU:O	1:A:282:ARG:NH1	2.43	0.50
1:A:289:ILE:O	1:A:292:ASN:N	2.41	0.50
1:A:371:ILE:C	1:A:373:SER:H	2.13	0.50
1:A:438:ARG:NH1	1:A:438:ARG:CG	2.72	0.50
1:A:467:GLY:H	1:A:545:PRO:CB	2.25	0.50
1:A:741:PRO:O	1:A:742:GLU:CB	2.59	0.50
1:A:789:PHE:CD2	1:A:789:PHE:C	2.84	0.50
1:A:967:PHE:CD1	1:A:968:GLU:N	2.79	0.50
1:A:991:ALA:HB1	1:A:992:PRO:CD	2.34	0.50
1:A:1019:THR:HB	1:A:1100:LEU:C	2.32	0.50
1:A:1225:VAL:O	1:A:1225:VAL:HG13	2.12	0.50
1:B:167:LEU:O	1:B:170:ARG:N	2.45	0.50
1:B:185:LYS:HZ2	1:B:186:ILE:CA	2.24	0.50
1:B:1067:SER:OG	1:B:1068:SER:N	2.43	0.50
1:A:107:MET:HE2	1:A:954:ARG:HD2	1.94	0.50
1:A:153:ASN:C	1:A:155:GLU:H	2.14	0.50
1:A:438:ARG:O	1:A:438:ARG:HD3	2.11	0.50
1:A:512:LEU:HD12	1:A:513:PRO:HG2	1.94	0.50
1:A:887:GLU:O	1:A:891:LYS:HB2	2.11	0.50
1:A:906:LEU:O	1:A:906:LEU:HD23	2.11	0.50
1:A:1043:ARG:NH2	1:A:1086:MET:HG2	2.26	0.50
1:A:1230:LEU:HD12	1:A:1270:GLN:HB2	1.93	0.50
1:B:122:LEU:HD13	1:B:943:ALA:HB2	1.93	0.50
1:B:282:ARG:HD3	1:B:286:LYS:HZ3	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:863:ILE:N	1:B:863:ILE:HD12	2.26	0.50
1:B:1262:ILE:H	1:B:1262:ILE:CD1	2.20	0.50
1:A:163:ASP:C	1:A:165:GLY:N	2.63	0.50
1:A:185:LYS:NZ	1:A:186:ILE:CA	2.75	0.50
1:A:431:THR:O	1:A:434:GLN:CB	2.60	0.50
1:A:762:SER:CA	1:A:765:THR:HG22	2.41	0.50
1:B:604:GLU:OE2	1:B:617:ILE:HB	2.11	0.50
1:A:198:GLY:O	1:A:202:ILE:HG13	2.11	0.50
1:A:209:LYS:O	1:A:212:LEU:HB3	2.11	0.50
1:A:423:GLY:HA3	1:A:429:LYS:HD2	1.92	0.50
1:A:471:GLN:O	1:A:472:GLU:C	2.50	0.50
1:A:490:ASP:O	1:A:491:VAL:HB	2.11	0.50
1:A:536:ALA:O	1:A:539:ARG:HB3	2.11	0.50
1:A:892:ILE:C	1:A:916:TYR:CE2	2.85	0.50
1:A:946:TYR:CG	1:A:947:PHE:N	2.80	0.50
1:A:1037:VAL:HG22	1:A:1087:ALA:CB	2.41	0.50
1:A:1076:VAL:HG13	1:A:1194:LEU:HB3	1.92	0.50
1:A:1153:PHE:CE2	1:A:1172:LEU:HD22	2.46	0.50
1:B:156:ILE:N	1:B:156:ILE:CD1	2.41	0.50
1:B:504:ASN:OD1	1:B:568:ALA:HB2	2.12	0.50
1:B:621:LEU:HD22	1:B:621:LEU:H	1.76	0.50
1:B:707:PHE:CZ	1:B:775:LYS:NZ	2.76	0.50
1:B:912:PHE:O	1:B:915:MET:N	2.45	0.50
1:B:939:SER:OG	1:B:940:PHE:N	2.45	0.50
1:A:135:ALA:O	1:A:136:ALA:C	2.51	0.50
1:A:212:LEU:HD13	1:A:215:LEU:HD12	1.92	0.50
1:A:428:GLY:O	1:A:431:THR:N	2.45	0.50
1:A:685:ASP:O	1:A:686:GLU:CG	2.57	0.50
1:A:777:GLY:HA3	1:A:822:LYS:HE3	1.93	0.50
1:A:789:PHE:HD2	1:A:789:PHE:C	2.14	0.50
1:A:908:ARG:C	1:A:911:LYS:HB3	2.32	0.50
1:A:1033:PHE:CD1	1:A:1036:VAL:CG2	2.95	0.50
1:B:58:ILE:CD1	1:B:58:ILE:H	2.25	0.50
1:B:232:LEU:HG	1:B:295:MET:SD	2.52	0.50
1:B:504:ASN:O	1:B:534:ARG:HD3	2.12	0.50
1:B:560:GLU:O	1:B:563:ALA:HB3	2.12	0.50
1:B:867:ALA:HA	1:B:870:VAL:HG12	1.92	0.50
1:B:949:TYR:O	1:B:952:ALA:HB3	2.12	0.50
1:B:969:ASN:N	1:B:969:ASN:ND2	2.58	0.50
1:B:1033:PHE:O	1:B:1053:SER:HA	2.11	0.50
1:B:1263:TYR:O	1:B:1266:MET:HB2	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:TYR:CG	1:A:42:ALA:N	2.78	0.49
1:A:315:SER:C	1:A:318:ILE:HG22	2.29	0.49
1:A:554:THR:HG23	1:A:555:SER:N	2.27	0.49
1:A:621:LEU:HD22	1:A:621:LEU:N	2.27	0.49
1:A:1011:THR:O	1:A:1013:GLU:HB2	2.12	0.49
1:A:1057:LYS:H	1:A:1057:LYS:CD	2.24	0.49
1:A:1144:ALA:CB	1:A:1187:VAL:CG2	2.86	0.49
1:B:58:ILE:HG22	1:B:59:ILE:N	2.26	0.49
1:B:374:PHE:HD1	1:B:375:SER:N	2.06	0.49
1:B:573:ARG:C	1:B:575:GLY:H	2.12	0.49
1:B:731:VAL:HG22	1:B:750:LEU:HB3	1.94	0.49
1:B:855:LEU:HA	1:B:858:LEU:HG	1.93	0.49
1:B:1117:ILE:HG13	1:B:1118:LEU:N	2.27	0.49
1:B:1140:GLU:O	1:B:1143:ARG:N	2.45	0.49
1:B:1170:THR:O	1:B:1171:GLN:HB3	2.11	0.49
1:A:44:TRP:C	1:A:46:ASP:N	2.64	0.49
1:A:308:LEU:O	1:A:309:ALA:C	2.47	0.49
1:A:514:HIS:O	1:A:515:GLN:CB	2.60	0.49
1:A:842:GLY:O	1:A:846:SER:OG	2.24	0.49
1:A:853:LEU:O	1:A:857:LEU:N	2.45	0.49
1:A:907:THR:N	1:A:908:ARG:NE	2.60	0.49
1:A:908:ARG:O	1:A:911:LYS:N	2.45	0.49
1:A:1019:THR:O	1:A:1020:GLN:CB	2.60	0.49
1:A:1019:THR:O	1:A:1100:LEU:HD12	2.12	0.49
1:A:1046:ILE:HG23	1:A:1047:PRO:HD2	1.95	0.49
1:B:417:GLN:O	1:B:418:THR:HG22	2.12	0.49
1:B:901:ARG:H	1:B:901:ARG:CD	2.04	0.49
1:B:1199:THR:HG22	1:B:1202:LEU:HD22	1.93	0.49
1:A:155:GLU:O	1:A:157:GLY:N	2.44	0.49
1:A:267:LYS:HB2	1:A:267:LYS:HZ2	1.73	0.49
1:A:311:TRP:HE1	1:A:754:LEU:HD13	1.76	0.49
1:A:530:GLY:HA2	1:A:557:LEU:HD11	1.95	0.49
1:A:722:PRO:O	1:A:725:SER:HB2	2.11	0.49
1:A:787:MET:SD	1:A:1008:ILE:HD11	2.52	0.49
1:A:1097:ILE:HD12	1:A:1105:LEU:CD1	2.38	0.49
1:A:1137:SER:O	1:A:1141:ILE:HG23	2.13	0.49
1:B:183:GLY:C	1:B:186:ILE:HG23	2.33	0.49
1:B:393:ILE:O	1:B:393:ILE:HG12	2.12	0.49
1:B:531:GLN:O	1:B:532:LYS:C	2.51	0.49
1:B:551:ASP:C	1:B:553:ALA:H	2.15	0.49
1:B:718:GLY:HA2	1:B:837:ALA:CB	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:755:PHE:O	1:B:756:LEU:C	2.51	0.49
1:B:974:PHE:HA	1:B:977:ILE:HD12	1.94	0.49
1:A:130:SER:O	1:A:134:LEU:HB2	2.12	0.49
1:A:504:ASN:O	1:A:504:ASN:CG	2.51	0.49
1:B:153:ASN:O	1:B:155:GLU:CD	2.50	0.49
1:B:265:GLY:O	1:B:267:LYS:CD	2.60	0.49
1:B:282:ARG:HG3	1:B:782:LYS:HD3	1.94	0.49
1:B:476:PHE:CD1	1:B:476:PHE:N	2.80	0.49
1:B:690:PRO:CG	1:B:1006:ARG:CZ	2.88	0.49
1:B:711:ILE:CG1	1:B:715:ILE:HD11	2.43	0.49
1:B:853:LEU:HB3	1:B:973:VAL:HG22	1.93	0.49
1:B:1035:GLY:O	1:B:1036:VAL:C	2.51	0.49
1:A:70:ILE:HG22	1:A:74:MET:HE2	1.93	0.49
1:A:115:THR:O	1:A:116:GLY:C	2.50	0.49
1:A:141:HIS:CE1	1:A:924:TYR:HB2	2.47	0.49
1:A:232:LEU:HB2	1:A:295:MET:HE2	1.93	0.49
1:A:370:SER:C	1:A:372:ASP:H	2.16	0.49
1:A:699:LEU:O	1:A:700:ASN:C	2.50	0.49
1:A:765:THR:CG2	1:A:766:PHE:H	2.26	0.49
1:A:1042:THR:O	1:A:1044:PRO:N	2.45	0.49
1:A:1164:ARG:C	1:A:1166:GLY:H	2.15	0.49
1:B:204:PHE:O	1:B:211:THR:HG21	2.12	0.49
1:B:251:GLU:O	1:B:252:GLU:HB2	2.12	0.49
1:B:967:PHE:CG	1:B:968:GLU:N	2.79	0.49
1:A:44:TRP:O	1:A:46:ASP:N	2.45	0.49
1:A:71:PHE:HE1	1:A:328:LEU:HD21	1.77	0.49
1:A:197:PHE:O	1:A:201:ILE:N	2.46	0.49
1:A:209:LYS:HD3	1:A:209:LYS:N	2.28	0.49
1:A:399:SER:O	1:A:402:GLU:OE2	2.31	0.49
1:A:476:PHE:CE1	1:A:486:TYR:HD1	2.29	0.49
1:A:843:ILE:HA	1:A:846:SER:HB2	1.94	0.49
1:A:910:GLN:HG2	1:B:492:THR:OG1	2.12	0.49
1:B:135:ALA:O	1:B:136:ALA:C	2.50	0.49
1:B:195:THR:HG23	1:B:196:PHE:H	1.77	0.49
1:B:332:PHE:HZ	1:B:974:PHE:HE2	1.60	0.49
1:B:472:GLU:HG3	1:B:472:GLU:O	2.13	0.49
1:B:484:ILE:HG21	1:B:496:ILE:CG1	2.43	0.49
1:B:492:THR:O	1:B:494:ASP:N	2.45	0.49
1:B:550:LEU:N	1:B:550:LEU:HD12	2.28	0.49
1:B:878:GLN:HA	1:B:881:LYS:HG2	1.95	0.49
1:A:245:LYS:NZ	1:A:245:LYS:HA	2.28	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:362:PHE:C	1:A:365:ILE:H	2.16	0.49
1:A:387:ASN:ND2	1:A:415:SER:N	2.61	0.49
1:A:500:VAL:HG21	1:A:516:PHE:CZ	2.46	0.49
1:A:508:PHE:CE1	1:A:509:ILE:CG2	2.95	0.49
1:A:940:PHE:O	1:A:944:MET:HG2	2.13	0.49
1:A:1020:GLN:CD	1:A:1022:LEU:H	2.16	0.49
1:A:1039:ASN:HB2	1:A:1047:PRO:CG	2.42	0.49
1:A:1184:ARG:O	1:A:1187:VAL:HB	2.13	0.49
1:A:1185:ALA:O	1:A:1187:VAL:N	2.46	0.49
1:B:33:VAL:O	1:B:35:VAL:N	2.46	0.49
1:B:88:SER:O	1:B:90:ASN:N	2.44	0.49
1:B:227:ILE:HG22	1:B:231:ILE:CD1	2.42	0.49
1:B:414:LYS:H	1:B:414:LYS:CD	2.24	0.49
1:A:140:ILE:O	1:A:141:HIS:C	2.50	0.49
1:A:459:VAL:O	1:A:461:TYR:N	2.45	0.49
1:A:498:LYS:HZ2	1:A:502:GLU:HG3	1.78	0.49
1:A:711:ILE:O	1:A:711:ILE:CG1	2.60	0.49
1:A:794:ARG:O	1:A:795:GLN:O	2.31	0.49
1:A:882:ASP:O	1:A:886:LEU:HG	2.12	0.49
1:A:918:GLN:NE2	1:B:482:GLU:CD	2.66	0.49
1:A:1030:ASN:ND2	1:A:1057:LYS:HA	2.27	0.49
1:A:1091:PHE:C	1:A:1093:ASP:H	2.16	0.49
1:A:1127:ILE:C	1:A:1129:TYR:H	2.16	0.49
1:A:1242:ILE:HD12	1:A:1246:LYS:C	2.33	0.49
1:B:34:SER:CA	1:B:38:MET:HB2	2.37	0.49
1:B:55:LEU:O	1:B:58:ILE:HB	2.12	0.49
1:B:118:GLY:CA	1:B:946:TYR:CD1	2.95	0.49
1:B:184:ASP:O	1:B:187:GLY:N	2.46	0.49
1:B:388:LEU:HB2	1:B:413:VAL:CG1	2.41	0.49
1:B:734:VAL:HG11	1:B:750:LEU:CD1	2.42	0.49
1:B:1117:ILE:HD12	1:B:1118:LEU:N	2.20	0.49
1:B:1144:ALA:CB	1:B:1187:VAL:CG2	2.87	0.49
1:A:178:ILE:HA	1:A:354:ALA:HB1	1.95	0.49
1:A:301:LEU:HA	1:A:759:GLY:HA2	1.95	0.49
1:A:1032:GLN:NE2	1:A:1055:GLU:HB2	2.28	0.49
1:A:1092:LEU:HD11	1:A:1104:TRP:HZ3	1.77	0.49
1:B:463:ARG:HH12	1:B:903:VAL:HG22	1.77	0.49
1:B:701:SER:HA	1:B:704:TRP:CB	2.43	0.49
1:B:821:VAL:HG23	1:B:822:LYS:N	2.28	0.49
1:B:968:GLU:CD	1:B:969:ASN:N	2.66	0.49
1:B:1057:LYS:HB2	1:B:1060:GLN:HE21	1.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1080:GLU:OE1	1:B:1080:GLU:HA	2.12	0.49
1:A:257:ILE:HD12	1:A:260:VAL:HB	1.94	0.49
1:A:277:LEU:O	1:A:280:ALA:HB3	2.12	0.49
1:A:902:THR:CA	1:A:904:VAL:HG12	2.42	0.49
1:A:964:LEU:HD12	1:A:966:THR:HG23	1.94	0.49
1:A:1003:HIS:O	1:A:1007:ILE:HD13	2.13	0.49
1:A:1100:LEU:HD21	1:A:1104:TRP:CZ3	2.47	0.49
1:A:1261:GLY:H	1:A:1264:PHE:CB	2.26	0.49
1:B:282:ARG:HB3	1:B:778:GLU:CG	2.42	0.49
1:B:311:TRP:HA	1:B:311:TRP:CE3	2.47	0.49
1:B:1064:LEU:CB	1:B:1226:ILE:HG22	2.43	0.49
1:B:1091:PHE:CD2	1:B:1094:GLY:O	2.65	0.49
1:B:1123:ILE:HA	1:B:1126:ASN:HB2	1.95	0.49
1:B:1208:LYS:NZ	1:B:1209:VAL:HA	2.28	0.49
1:A:72:GLY:CA	1:A:329:THR:OG1	2.59	0.48
1:A:218:SER:O	1:A:220:VAL:N	2.46	0.48
1:A:429:LYS:HD3	1:A:429:LYS:N	2.24	0.48
1:A:549:LEU:N	1:A:549:LEU:CD1	2.75	0.48
1:A:852:GLN:C	1:A:853:LEU:HD22	2.34	0.48
1:A:1037:VAL:HA	1:A:1049:LEU:O	2.12	0.48
1:A:1091:PHE:CD1	1:A:1096:GLU:CA	2.91	0.48
1:A:1104:TRP:O	1:A:1105:LEU:C	2.50	0.48
1:A:1117:ILE:CG1	1:A:1118:LEU:N	2.76	0.48
1:B:33:VAL:O	1:B:36:LEU:HG	2.13	0.48
1:B:221:LEU:HD11	1:B:309:ALA:HB3	1.95	0.48
1:B:541:LEU:O	1:B:541:LEU:HD13	2.13	0.48
1:B:749:ASN:OD1	1:B:750:LEU:N	2.46	0.48
1:B:836:ILE:O	1:B:837:ALA:C	2.51	0.48
1:B:842:GLY:HA2	1:B:979:PHE:CE2	2.48	0.48
1:B:950:ALA:O	1:B:951:ALA:C	2.50	0.48
1:A:34:SER:CA	1:A:38:MET:HB2	2.31	0.48
1:A:386:GLY:CA	1:A:450:ASP:HA	2.30	0.48
1:A:462:LEU:HG	1:A:466:ILE:CD1	2.42	0.48
1:A:493:MET:O	1:A:497:GLU:HB2	2.13	0.48
1:A:796:ASP:O	1:A:797:VAL:CB	2.60	0.48
1:A:1019:THR:OG1	1:A:1101:ASN:N	2.46	0.48
1:A:1064:LEU:CB	1:A:1226:ILE:HG22	2.43	0.48
1:B:36:LEU:HD12	1:B:37:THR:N	2.28	0.48
1:B:300:LEU:HD12	1:B:766:PHE:CZ	2.48	0.48
1:B:419:VAL:CG1	1:B:579:ILE:HG12	2.43	0.48
1:B:519:LEU:HD22	1:B:526:GLN:HE22	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:621:LEU:HD22	1:B:621:LEU:N	2.28	0.48
1:B:830:ALA:HB1	1:B:990:PHE:CD2	2.42	0.48
1:B:889:SER:O	1:B:892:ILE:CG1	2.61	0.48
1:A:160:ASP:OD1	1:A:160:ASP:N	2.46	0.48
1:A:382:ASP:OD2	1:A:382:ASP:N	2.45	0.48
1:A:557:LEU:CD2	1:A:565:VAL:HG21	2.43	0.48
1:A:579:ILE:HG23	1:A:579:ILE:O	2.12	0.48
1:A:750:LEU:HD23	1:A:753:LEU:HD23	1.95	0.48
1:A:808:GLY:O	1:A:810:LEU:N	2.46	0.48
1:A:872:MET:HE2	1:A:873:LYS:HA	1.95	0.48
1:A:878:GLN:HA	1:A:881:LYS:HG2	1.95	0.48
1:A:1039:ASN:HB2	1:A:1047:PRO:HG3	1.96	0.48
1:A:1076:VAL:HG13	1:A:1194:LEU:HD13	1.96	0.48
1:A:1236:ALA:HB3	1:A:1239:ILE:HG13	1.95	0.48
1:B:129:VAL:CG2	1:B:938:PHE:CD1	2.92	0.48
1:B:361:VAL:C	1:B:364:ILE:HB	2.33	0.48
1:B:796:ASP:OD1	1:B:1014:ILE:HG21	2.13	0.48
1:B:812:THR:HG22	1:B:816:ASN:HD22	1.79	0.48
1:B:838:ASN:ND2	1:B:839:LEU:N	2.61	0.48
1:B:842:GLY:O	1:B:846:SER:OG	2.22	0.48
1:A:57:ALA:HB1	1:A:190:PHE:CB	2.43	0.48
1:A:111:ALA:O	1:A:114:TYR:CD1	2.67	0.48
1:A:129:VAL:CG2	1:A:938:PHE:CD1	2.94	0.48
1:A:201:ILE:CG2	1:A:202:ILE:N	2.77	0.48
1:A:436:MET:HE1	1:A:449:ILE:CD1	2.42	0.48
1:A:695:ARG:C	1:A:697:LEU:H	2.15	0.48
1:A:706:TYR:O	1:A:706:TYR:CD1	2.67	0.48
1:A:783:ARG:O	1:A:787:MET:HG3	2.14	0.48
1:A:799:TRP:CD1	1:A:800:PHE:HE1	2.25	0.48
1:A:853:LEU:C	1:A:856:LEU:H	2.16	0.48
1:A:861:VAL:HB	1:A:862:PRO:HD3	1.94	0.48
1:B:187:GLY:O	1:B:190:PHE:HB3	2.13	0.48
1:B:204:PHE:O	1:B:205:THR:C	2.52	0.48
1:B:248:ALA:C	1:B:250:ALA:H	2.14	0.48
1:B:722:PRO:O	1:B:725:SER:HB2	2.12	0.48
1:B:731:VAL:O	1:B:732:VAL:C	2.50	0.48
1:B:938:PHE:CD2	1:B:938:PHE:C	2.86	0.48
1:B:1042:THR:C	1:B:1044:PRO:CD	2.81	0.48
1:B:1172:LEU:HD22	1:B:1176:GLN:HE21	1.79	0.48
1:A:445:GLY:O	1:A:446:MET:HB3	2.13	0.48
1:A:508:PHE:HE2	1:A:534:ARG:HD2	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:608:HIS:HD1	1:A:618:TYR:HE2	1.61	0.48
1:A:708:VAL:O	1:A:711:ILE:CG2	2.62	0.48
1:A:786:TYR:O	1:A:787:MET:C	2.50	0.48
1:A:881:LYS:HG3	1:A:882:ASP:N	2.29	0.48
1:A:900:PHE:CD1	1:A:900:PHE:O	2.66	0.48
1:A:900:PHE:O	1:A:900:PHE:HD1	1.96	0.48
1:A:1020:GLN:OE1	1:A:1020:GLN:C	2.51	0.48
1:B:360:GLU:C	1:B:362:PHE:H	2.17	0.48
1:B:415:SER:C	1:B:417:GLN:H	2.16	0.48
1:B:765:THR:CG2	1:B:766:PHE:H	2.26	0.48
1:B:789:PHE:HD2	1:B:789:PHE:O	1.95	0.48
1:A:133:CYS:SG	1:A:931:ALA:CA	2.95	0.48
1:A:144:ARG:NH1	1:A:175:VAL:HG11	2.28	0.48
1:A:183:GLY:CA	1:A:186:ILE:HG23	2.44	0.48
1:A:214:ILE:O	1:A:215:LEU:C	2.52	0.48
1:A:315:SER:CA	1:A:318:ILE:HG22	2.42	0.48
1:A:760:ILE:N	1:A:760:ILE:HD12	2.28	0.48
1:A:791:SER:CB	1:A:1010:LYS:HZ1	2.27	0.48
1:A:970:VAL:O	1:A:973:VAL:HB	2.12	0.48
1:A:1058:LYS:HA	1:A:1222:THR:OG1	2.13	0.48
1:A:1137:SER:HB3	1:A:1140:GLU:HB2	1.93	0.48
1:B:35:VAL:HG23	1:B:36:LEU:HD23	1.95	0.48
1:B:197:PHE:O	1:B:201:ILE:HB	2.13	0.48
1:B:291:ALA:O	1:B:295:MET:N	2.46	0.48
1:B:788:VAL:CG2	1:B:1004:ILE:HG12	2.44	0.48
1:A:265:GLY:O	1:A:267:LYS:HE3	2.14	0.48
1:A:550:LEU:HD23	1:A:569:LEU:HD13	1.95	0.48
1:B:133:CYS:CB	1:B:931:ALA:CB	2.91	0.48
1:B:201:ILE:CG2	1:B:202:ILE:N	2.77	0.48
1:B:215:LEU:O	1:B:219:PRO:CD	2.61	0.48
1:B:295:MET:HE1	1:B:298:ALA:HB2	1.96	0.48
1:B:358:ALA:O	1:B:362:PHE:HB2	2.14	0.48
1:B:387:ASN:ND2	1:B:415:SER:N	2.62	0.48
1:B:436:MET:HG3	1:B:436:MET:O	2.13	0.48
1:B:802:ASP:OD1	1:B:1041:PRO:O	2.32	0.48
1:A:49:TYR:HE2	1:A:130:SER:C	2.17	0.48
1:A:213:VAL:O	1:A:217:ILE:CD1	2.62	0.48
1:A:232:LEU:CB	1:A:295:MET:SD	3.02	0.48
1:A:252:GLU:O	1:A:254:LEU:HD21	2.13	0.48
1:A:523:ARG:HD3	1:A:524:GLY:N	2.13	0.48
1:A:837:ALA:HB1	1:A:982:MET:CE	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:925:ARG:CZ	1:B:519:LEU:HD12	2.43	0.48
1:A:1062:LEU:CD1	1:A:1224:ILE:HG23	2.35	0.48
1:A:1118:LEU:N	1:A:1118:LEU:CD1	2.67	0.48
1:A:1209:VAL:HG13	1:A:1210:VAL:N	2.29	0.48
1:B:253:VAL:CA	1:B:254:LEU:HD22	2.43	0.48
1:B:588:VAL:O	1:B:589:ARG:C	2.51	0.48
1:B:800:PHE:C	1:B:803:PRO:HD3	2.33	0.48
1:B:860:ILE:O	1:B:864:ILE:HG12	2.14	0.48
1:B:1234:GLN:HG2	1:B:1253:HIS:NE2	2.28	0.48
1:A:151:ILE:O	1:A:153:ASN:N	2.47	0.48
1:A:302:ILE:HA	1:A:305:SER:HB3	1.95	0.48
1:A:303:TYR:O	1:A:306:TYR:N	2.46	0.48
1:A:478:THR:HG21	1:A:482:GLU:CB	2.44	0.48
1:A:849:TYR:HB3	1:A:854:THR:OG1	2.14	0.48
1:A:905:SER:CB	1:A:908:ARG:NH1	2.71	0.48
1:A:1153:PHE:CZ	1:A:1176:GLN:CG	2.93	0.48
1:A:1218:ARG:CG	1:A:1219:GLU:N	2.76	0.48
1:B:81:VAL:HG13	1:B:99:MET:HE3	1.96	0.48
1:B:225:ALA:HB2	1:B:302:ILE:CG2	2.44	0.48
1:B:303:TYR:CE2	1:B:306:TYR:CE2	3.02	0.48
1:B:397:TYR:HE2	1:B:434:GLN:HE22	1.60	0.48
1:B:478:THR:CG2	1:B:482:GLU:HB2	2.44	0.48
1:B:554:THR:O	1:B:555:SER:O	2.31	0.48
1:B:604:GLU:CD	1:B:617:ILE:H	2.17	0.48
1:B:748:SER:O	1:B:751:PHE:HD1	1.97	0.48
1:B:795:GLN:HG2	1:B:1010:LYS:HB3	1.95	0.48
1:B:1056:VAL:HG21	1:B:1062:LEU:HB2	1.96	0.48
1:B:1195:LEU:HD23	1:B:1225:VAL:HB	1.95	0.48
1:A:36:LEU:O	1:A:39:PHE:HB3	2.14	0.48
1:A:97:ARG:O	1:A:101:ALA:HB2	2.13	0.48
1:A:251:GLU:O	1:A:252:GLU:HB2	2.13	0.48
1:A:278:GLU:O	1:A:279:GLU:C	2.53	0.48
1:A:426:GLY:O	1:A:427:CYS:HB2	2.13	0.48
1:A:551:ASP:O	1:A:552:GLU:HB2	2.14	0.48
1:A:857:LEU:CD1	1:A:977:ILE:HG12	2.41	0.48
1:A:1080:GLU:CD	1:A:1109:LEU:HD12	2.34	0.48
1:A:1090:VAL:HG22	1:A:1097:ILE:CG1	2.43	0.48
1:A:1090:VAL:HG23	1:A:1091:PHE:N	2.28	0.48
1:A:1164:ARG:HG2	1:A:1166:GLY:H	1.79	0.48
1:B:60:HIS:CD2	1:B:190:PHE:CE1	3.01	0.48
1:B:232:LEU:HB2	1:B:295:MET:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:293:ILE:C	1:B:295:MET:N	2.67	0.48
1:B:411:LEU:HD23	1:B:411:LEU:C	2.30	0.48
1:B:970:VAL:O	1:B:973:VAL:HB	2.13	0.48
1:A:208:TRP:O	1:A:209:LYS:CB	2.62	0.47
1:A:213:VAL:O	1:A:217:ILE:CG1	2.59	0.47
1:A:361:VAL:CG1	1:A:364:ILE:HD12	2.40	0.47
1:A:375:SER:OG	1:A:906:LEU:HD11	2.14	0.47
1:A:439:LEU:HD12	1:A:440:TYR:CE1	2.49	0.47
1:A:701:SER:O	1:A:704:TRP:HB3	2.13	0.47
1:A:798:SER:N	1:A:801:ASP:HB2	2.29	0.47
1:A:992:PRO:HB2	1:A:996:LYS:HZ3	1.78	0.47
1:A:1013:GLU:OE2	1:A:1014:ILE:HD13	2.14	0.47
1:A:1080:GLU:OE1	1:A:1080:GLU:HA	2.14	0.47
1:A:1109:LEU:N	1:A:1109:LEU:CD2	2.77	0.47
1:B:118:GLY:HA2	1:B:946:TYR:CD1	2.49	0.47
1:B:324:ILE:CD1	1:B:326:GLN:H	2.26	0.47
1:B:332:PHE:HZ	1:B:974:PHE:CE2	2.32	0.47
1:B:411:LEU:CD2	1:B:412:LYS:N	2.60	0.47
1:B:496:ILE:O	1:B:497:GLU:C	2.52	0.47
1:B:792:MET:SD	1:B:814:LEU:HD21	2.54	0.47
1:B:888:GLY:O	1:B:892:ILE:HG12	2.12	0.47
1:B:1076:VAL:HG12	1:B:1194:LEU:HD13	1.95	0.47
1:B:1125:GLU:O	1:B:1126:ASN:C	2.53	0.47
1:A:68:MET:HA	1:A:68:MET:CE	2.44	0.47
1:A:121:VAL:O	1:A:122:LEU:C	2.53	0.47
1:A:245:LYS:HA	1:A:245:LYS:HZ2	1.78	0.47
1:A:249:VAL:O	1:A:249:VAL:HG12	2.14	0.47
1:A:405:ILE:HD12	1:A:405:ILE:N	2.12	0.47
1:A:457:ILE:HD11	1:A:462:LEU:HD12	1.96	0.47
1:A:733:GLY:C	1:A:735:PHE:H	2.17	0.47
1:A:1104:TRP:O	1:A:1107:ALA:HB3	2.14	0.47
1:B:44:TRP:C	1:B:46:ASP:H	2.15	0.47
1:B:210:LEU:C	1:B:212:LEU:N	2.65	0.47
1:B:248:ALA:O	1:B:251:GLU:HB2	2.14	0.47
1:B:360:GLU:HA	1:B:363:LYS:HE2	1.95	0.47
1:B:368:LYS:N	1:B:369:PRO:HD3	2.29	0.47
1:B:376:LYS:HD2	1:B:376:LYS:N	2.26	0.47
1:B:580:VAL:O	1:B:580:VAL:HG13	2.13	0.47
1:B:830:ALA:CB	1:B:990:PHE:HD2	2.18	0.47
1:B:1030:ASN:OD1	1:B:1057:LYS:CA	2.62	0.47
1:B:1081:ARG:HG2	1:B:1081:ARG:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:GLY:HA3	1:A:946:TYR:CD1	2.49	0.47
1:A:129:VAL:HG21	1:A:938:PHE:HD1	1.78	0.47
1:A:162:HIS:O	1:A:164:VAL:HG23	2.14	0.47
1:A:255:ALA:C	1:A:257:ILE:N	2.67	0.47
1:A:361:VAL:HA	1:A:364:ILE:CG1	2.45	0.47
1:A:374:PHE:CZ	1:A:376:LYS:HB2	2.49	0.47
1:A:474:VAL:HG23	1:A:523:ARG:NH1	2.29	0.47
1:A:773:PHE:CD1	1:A:774:GLY:N	2.82	0.47
1:A:922:ILE:CB	1:A:923:PRO:HD3	2.44	0.47
1:A:1154:ILE:HG21	1:A:1161:TYR:CZ	2.48	0.47
1:A:1267:VAL:HG12	1:A:1270:GLN:OE1	2.15	0.47
1:B:35:VAL:CG2	1:B:355:ARG:HH21	2.26	0.47
1:B:99:MET:N	1:B:99:MET:SD	2.87	0.47
1:B:155:GLU:O	1:B:157:GLY:N	2.47	0.47
1:B:240:LEU:HD23	1:B:285:ILE:HG13	1.95	0.47
1:B:267:LYS:O	1:B:790:LYS:CE	2.62	0.47
1:B:399:SER:O	1:B:402:GLU:OE2	2.31	0.47
1:B:493:MET:N	1:B:496:ILE:HD13	2.28	0.47
1:B:579:ILE:CG2	1:B:579:ILE:O	2.62	0.47
1:B:755:PHE:CG	1:B:756:LEU:N	2.82	0.47
1:B:756:LEU:HD12	1:B:756:LEU:C	2.34	0.47
1:B:782:LYS:C	1:B:784:LEU:N	2.67	0.47
1:B:880:LEU:O	1:B:883:LYS:HB2	2.15	0.47
1:B:1264:PHE:O	1:B:1267:VAL:HG23	2.15	0.47
1:A:114:TYR:CG	1:A:115:THR:N	2.81	0.47
1:A:186:ILE:O	1:A:187:GLY:C	2.52	0.47
1:A:585:LEU:HD22	1:A:585:LEU:N	2.29	0.47
1:A:690:PRO:HB2	1:A:1006:ARG:NH2	2.29	0.47
1:A:813:ARG:O	1:A:817:ASP:HB2	2.13	0.47
1:A:902:THR:C	1:A:904:VAL:HG12	2.35	0.47
1:A:1166:GLY:O	1:A:1167:ASP:HB3	2.15	0.47
1:A:1212:GLU:O	1:A:1215:ASP:HB3	2.14	0.47
1:A:1263:TYR:O	1:A:1267:VAL:CG2	2.63	0.47
1:B:114:TYR:HD2	1:B:946:TYR:CE2	2.31	0.47
1:B:311:TRP:O	1:B:314:THR:HB	2.15	0.47
1:B:318:ILE:CD1	1:B:325:GLY:N	2.69	0.47
1:B:894:THR:O	1:B:898:GLU:CB	2.63	0.47
1:B:1040:TYR:HD1	1:B:1040:TYR:H	1.62	0.47
1:B:1058:LYS:HA	1:B:1222:THR:OG1	2.15	0.47
1:A:148:PHE:CG	1:A:913:GLU:OE2	2.68	0.47
1:A:217:ILE:CG2	1:A:309:ALA:HB1	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:ILE:C	1:A:295:MET:N	2.67	0.47
1:A:621:LEU:HD22	1:A:621:LEU:H	1.80	0.47
1:A:696:ILE:O	1:A:700:ASN:CG	2.52	0.47
1:A:921:GLN:OE1	1:B:479:THR:HG21	2.14	0.47
1:A:927:ALA:O	1:A:930:LYS:HG2	2.15	0.47
1:B:135:ALA:O	1:B:137:GLY:N	2.47	0.47
1:B:543:ARG:NH2	1:B:905:SER:C	2.68	0.47
1:B:730:LYS:CD	1:B:750:LEU:HD21	2.43	0.47
1:B:1023:LYS:O	1:B:1025:ASN:N	2.48	0.47
1:B:1056:VAL:HG23	1:B:1062:LEU:HB2	1.94	0.47
1:B:1112:VAL:HG11	1:B:1182:ILE:CD1	2.45	0.47
1:B:1118:LEU:HD21	1:B:1180:ILE:HD12	1.96	0.47
1:B:1204:THR:CG2	1:B:1205:GLU:N	2.45	0.47
1:A:58:ILE:HD12	1:A:58:ILE:N	2.27	0.47
1:A:208:TRP:HB3	1:A:209:LYS:HZ3	1.77	0.47
1:A:290:THR:HA	1:A:293:ILE:CG1	2.45	0.47
1:A:816:ASN:CG	1:A:817:ASP:N	2.67	0.47
1:A:974:PHE:CD1	1:A:974:PHE:C	2.88	0.47
1:A:1079:LEU:HD23	1:A:1194:LEU:HD21	1.96	0.47
1:B:74:MET:HG3	1:B:75:THR:N	2.30	0.47
1:B:285:ILE:O	1:B:285:ILE:CD1	2.62	0.47
1:B:318:ILE:CG2	1:B:735:PHE:CZ	2.96	0.47
1:B:327:VAL:HG12	1:B:331:PHE:CE1	2.49	0.47
1:B:417:GLN:C	1:B:418:THR:CG2	2.82	0.47
1:B:509:ILE:CD1	1:B:510:MET:HG2	2.44	0.47
1:B:585:LEU:HA	1:B:588:VAL:HG21	1.97	0.47
1:B:591:ALA:HB3	1:B:594:ILE:HD11	1.96	0.47
1:B:727:ILE:CG2	1:B:728:PHE:N	2.77	0.47
1:B:1005:ILE:HA	1:B:1008:ILE:CG2	2.43	0.47
1:B:1064:LEU:HB3	1:B:1226:ILE:CB	2.44	0.47
1:B:1091:PHE:CZ	1:B:1096:GLU:HG2	2.48	0.47
1:B:1126:ASN:O	1:B:1127:ILE:C	2.53	0.47
1:A:118:GLY:O	1:A:119:ALA:C	2.53	0.47
1:A:168:ASN:HB3	1:A:897:ILE:HD11	1.97	0.47
1:A:207:GLY:HA2	1:A:210:LEU:HB3	1.97	0.47
1:A:239:GLU:HB3	1:A:285:ILE:HA	1.97	0.47
1:A:248:ALA:C	1:A:250:ALA:H	2.17	0.47
1:A:285:ILE:O	1:A:289:ILE:CG1	2.43	0.47
1:A:290:THR:HA	1:A:293:ILE:CB	2.44	0.47
1:A:360:GLU:C	1:A:362:PHE:H	2.16	0.47
1:A:398:PRO:HD3	1:A:440:TYR:HE2	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:415:SER:C	1:A:417:GLN:N	2.65	0.47
1:A:519:LEU:N	1:A:519:LEU:CD1	2.78	0.47
1:A:570:ASP:C	1:A:572:ALA:N	2.68	0.47
1:A:615:LYS:HA	1:A:619:PHE:CD2	2.49	0.47
1:A:707:PHE:CZ	1:A:775:LYS:NZ	2.81	0.47
1:A:709:VAL:O	1:A:712:PHE:CB	2.63	0.47
1:A:722:PRO:HA	1:A:979:PHE:HE1	1.78	0.47
1:A:730:LYS:HG2	1:A:750:LEU:CD1	2.44	0.47
1:A:974:PHE:HA	1:A:977:ILE:HD12	1.96	0.47
1:A:1025:ASN:C	1:A:1027:LEU:N	2.68	0.47
1:A:1096:GLU:OE1	1:A:1098:LYS:HG2	2.14	0.47
1:B:35:VAL:HA	1:B:359:TYR:HD2	1.67	0.47
1:B:44:TRP:CG	1:B:45:LEU:HD22	2.49	0.47
1:B:58:ILE:N	1:B:58:ILE:CD1	2.78	0.47
1:B:69:LEU:HA	1:B:329:THR:HG23	1.96	0.47
1:B:75:THR:O	1:B:78:PHE:HB3	2.14	0.47
1:B:177:LYS:O	1:B:354:ALA:HB2	2.15	0.47
1:B:207:GLY:CA	1:B:211:THR:HB	2.45	0.47
1:B:359:TYR:C	1:B:362:PHE:HB3	2.35	0.47
1:B:498:LYS:NZ	1:B:502:GLU:HG3	2.30	0.47
1:B:607:ASN:HB3	1:B:610:GLU:CG	2.44	0.47
1:B:689:PRO:HG2	1:B:690:PRO:CD	2.45	0.47
1:B:739:GLY:O	1:B:743:THR:HG23	2.15	0.47
1:B:787:MET:SD	1:B:1008:ILE:HD11	2.54	0.47
1:B:797:VAL:C	1:B:801:ASP:HB2	2.34	0.47
1:B:802:ASP:OD2	1:B:1041:PRO:O	2.32	0.47
1:B:816:ASN:O	1:B:819:ALA:HB3	2.14	0.47
1:B:849:TYR:C	1:B:854:THR:OG1	2.53	0.47
1:B:964:LEU:CD1	1:B:966:THR:HG23	2.45	0.47
1:B:1060:GLN:CB	1:B:1237:ASP:OD1	2.58	0.47
1:B:1063:ALA:HB3	1:B:1239:ILE:HG13	1.96	0.47
1:B:1079:LEU:C	1:B:1081:ARG:N	2.68	0.47
1:B:1137:SER:O	1:B:1141:ILE:HG23	2.15	0.47
1:A:268:LYS:O	1:A:268:LYS:CD	2.49	0.47
1:A:286:LYS:O	1:A:290:THR:HG23	2.15	0.47
1:A:288:ALA:CA	1:A:291:ALA:CB	2.85	0.47
1:A:439:LEU:HB3	1:A:440:TYR:HD1	1.80	0.47
1:A:711:ILE:HD12	1:A:832:ILE:CD1	2.44	0.47
1:A:1139:GLU:CD	1:A:1139:GLU:H	2.18	0.47
1:B:255:ALA:C	1:B:257:ILE:N	2.68	0.47
1:B:366:ASP:O	1:B:367:ASN:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:711:ILE:CG1	1:B:832:ILE:HG21	2.38	0.47
1:B:715:ILE:HG23	1:B:836:ILE:HG13	1.95	0.47
1:B:812:THR:O	1:B:813:ARG:C	2.53	0.47
1:B:1049:LEU:HD21	1:B:1074:THR:HB	1.96	0.47
1:B:1109:LEU:CD2	1:B:1109:LEU:N	2.77	0.47
1:A:39:PHE:CD2	1:A:355:ARG:HA	2.49	0.47
1:A:83:ASN:HD22	1:A:83:ASN:HA	1.58	0.47
1:A:114:TYR:CB	1:A:950:ALA:CB	2.91	0.47
1:A:117:ILE:O	1:A:120:GLY:N	2.48	0.47
1:A:309:ALA:O	1:A:310:PHE:O	2.33	0.47
1:A:561:SER:O	1:A:563:ALA:N	2.48	0.47
1:A:799:TRP:HA	1:A:799:TRP:CE3	2.50	0.47
1:A:884:LYS:O	1:A:887:GLU:HG2	2.15	0.47
1:A:1175:GLY:CA	1:A:1202:LEU:HD11	2.45	0.47
1:A:1213:ALA:O	1:A:1215:ASP:N	2.48	0.47
1:B:37:THR:O	1:B:38:MET:C	2.54	0.47
1:B:214:ILE:CD1	1:B:330:VAL:HG12	2.45	0.47
1:B:438:ARG:NH1	1:B:455:ARG:HA	2.30	0.47
1:B:594:ILE:HG22	1:B:595:ALA:N	2.30	0.47
1:B:955:PHE:O	1:B:958:TYR:CB	2.63	0.47
1:B:993:ASP:C	1:B:995:ALA:H	2.18	0.47
1:B:1091:PHE:C	1:B:1093:ASP:N	2.68	0.47
1:A:268:LYS:HD3	1:A:268:LYS:C	2.30	0.47
1:A:417:GLN:O	1:A:418:THR:HG22	2.15	0.47
1:A:625:GLN:O	1:A:626:THR:CB	2.63	0.47
1:A:769:GLN:O	1:A:773:PHE:CD2	2.67	0.47
1:B:158:TRP:CZ2	1:B:900:PHE:CB	2.97	0.47
1:B:252:GLU:O	1:B:254:LEU:CD2	2.63	0.47
1:B:431:THR:O	1:B:435:LEU:CD2	2.63	0.47
1:B:856:LEU:CD2	1:B:952:ALA:HA	2.45	0.47
1:A:297:ALA:CB	1:A:763:PHE:HD2	2.28	0.46
1:A:306:TYR:HE1	1:A:310:PHE:CE1	2.34	0.46
1:A:311:TRP:CE3	1:A:311:TRP:HA	2.50	0.46
1:A:419:VAL:CG1	1:A:579:ILE:HG12	2.46	0.46
1:A:422:VAL:O	1:A:422:VAL:HG23	2.15	0.46
1:A:544:ASN:CG	1:A:544:ASN:O	2.53	0.46
1:A:820:GLN:HG3	1:A:1000:SER:HB3	1.97	0.46
1:A:1042:THR:O	1:A:1044:PRO:CD	2.63	0.46
1:A:1081:ARG:O	1:A:1081:ARG:HG2	2.15	0.46
1:A:1104:TRP:O	1:A:1107:ALA:CB	2.63	0.46
1:A:1117:ILE:HG13	1:A:1118:LEU:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1197:GLU:OE2	1:A:1228:HIS:HB2	2.15	0.46
1:B:321:GLU:O	1:B:322:TYR:C	2.53	0.46
1:B:699:LEU:O	1:B:700:ASN:O	2.33	0.46
1:B:799:TRP:HA	1:B:799:TRP:CE3	2.49	0.46
1:B:1242:ILE:HD12	1:B:1246:LYS:C	2.35	0.46
1:A:197:PHE:O	1:A:201:ILE:HB	2.15	0.46
1:A:260:VAL:HG12	1:A:260:VAL:O	2.15	0.46
1:A:438:ARG:HH12	1:A:455:ARG:HA	1.80	0.46
1:A:588:VAL:O	1:A:589:ARG:C	2.53	0.46
1:A:853:LEU:O	1:A:856:LEU:HB3	2.15	0.46
1:A:905:SER:C	1:A:907:THR:H	2.19	0.46
1:A:1148:ALA:O	1:A:1149:ASN:CB	2.62	0.46
1:B:102:LYS:HE3	1:B:102:LYS:CA	2.42	0.46
1:B:257:ILE:HD11	1:B:261:ILE:HG12	1.97	0.46
1:B:374:PHE:CD1	1:B:375:SER:N	2.81	0.46
1:B:549:LEU:N	1:B:549:LEU:CD1	2.77	0.46
1:B:727:ILE:HG21	1:B:754:LEU:HG	1.98	0.46
1:B:803:PRO:HB2	1:B:805:ASN:H	1.80	0.46
1:B:855:LEU:HA	1:B:858:LEU:CD2	2.44	0.46
1:B:856:LEU:HD21	1:B:952:ALA:HA	1.97	0.46
1:B:1133:SER:O	1:B:1134:ARG:C	2.53	0.46
1:B:1179:ARG:NH2	1:B:1209:VAL:HG11	2.30	0.46
1:A:58:ILE:N	1:A:58:ILE:CD1	2.79	0.46
1:A:157:GLY:HA2	1:A:160:ASP:OD2	2.14	0.46
1:A:270:LEU:H	1:A:270:LEU:CD2	2.12	0.46
1:A:405:ILE:H	1:A:405:ILE:CD1	2.06	0.46
1:A:724:PHE:O	1:A:725:SER:C	2.54	0.46
1:A:755:PHE:O	1:A:756:LEU:C	2.53	0.46
1:A:787:MET:HB3	1:A:1008:ILE:HD12	1.97	0.46
1:A:1010:LYS:HB2	1:A:1011:THR:H	1.60	0.46
1:A:1026:MET:HE3	1:A:1095:LYS:HE2	1.98	0.46
1:A:1033:PHE:O	1:A:1053:SER:HA	2.14	0.46
1:A:1056:VAL:O	1:A:1056:VAL:HG13	2.14	0.46
1:B:45:LEU:H	1:B:45:LEU:CD2	2.28	0.46
1:B:70:ILE:HG22	1:B:74:MET:HE2	1.97	0.46
1:B:128:GLN:HB2	1:B:186:ILE:HD13	1.97	0.46
1:B:267:LYS:HA	1:B:270:LEU:HD11	1.97	0.46
1:B:315:SER:HB3	1:B:747:ASN:CG	2.36	0.46
1:B:777:GLY:HA3	1:B:822:LYS:HE3	1.97	0.46
1:B:788:VAL:HG21	1:B:1004:ILE:HG12	1.97	0.46
1:B:1135:VAL:HG22	1:B:1136:VAL:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1209:VAL:HG13	1:B:1210:VAL:N	2.30	0.46
1:A:141:HIS:CE1	1:A:924:TYR:CG	3.04	0.46
1:A:195:THR:HG23	1:A:196:PHE:N	2.30	0.46
1:A:215:LEU:C	1:A:219:PRO:HD2	2.36	0.46
1:A:548:LEU:C	1:A:549:LEU:HD12	2.35	0.46
1:A:731:VAL:O	1:A:732:VAL:C	2.51	0.46
1:A:795:GLN:HE21	1:A:796:ASP:H	1.62	0.46
1:A:970:VAL:HA	1:A:973:VAL:HG23	1.96	0.46
1:A:1097:ILE:HD11	1:A:1100:LEU:CD2	2.45	0.46
1:A:1129:TYR:O	1:A:1131:ASP:OD2	2.34	0.46
1:A:1218:ARG:C	1:A:1220:GLY:N	2.69	0.46
1:B:90:ASN:HB2	1:B:91:MET:HE3	1.97	0.46
1:B:174:ASP:OD1	1:B:361:VAL:HG21	2.16	0.46
1:B:207:GLY:CA	1:B:211:THR:H	2.29	0.46
1:B:207:GLY:C	1:B:209:LYS:H	2.18	0.46
1:B:385:GLN:NE2	1:B:415:SER:CB	2.78	0.46
1:B:596:GLY:O	1:B:602:ILE:HA	2.15	0.46
1:B:689:PRO:CD	1:B:690:PRO:HD2	2.45	0.46
1:B:881:LYS:HG3	1:B:882:ASP:N	2.30	0.46
1:B:898:GLU:O	1:B:901:ARG:NH1	2.49	0.46
1:B:1023:LYS:HB3	1:B:1026:MET:CG	2.45	0.46
1:B:1052:LEU:HD21	1:B:1054:LEU:HD21	1.97	0.46
1:B:1258:ALA:HA	1:B:1260:LYS:HZ1	1.78	0.46
1:A:58:ILE:CD1	1:A:58:ILE:H	2.28	0.46
1:A:121:VAL:CG2	1:A:122:LEU:H	2.26	0.46
1:A:183:GLY:HA2	1:A:186:ILE:HG23	1.97	0.46
1:A:267:LYS:CB	1:A:267:LYS:HZ3	2.25	0.46
1:A:334:VAL:HG13	1:A:335:LEU:N	2.30	0.46
1:A:361:VAL:C	1:A:364:ILE:HB	2.36	0.46
1:A:449:ILE:O	1:A:451:GLY:N	2.48	0.46
1:A:545:PRO:HG2	1:A:576:ARG:HD3	1.97	0.46
1:A:585:LEU:H	1:A:585:LEU:CD2	2.29	0.46
1:A:883:LYS:O	1:A:887:GLU:HB3	2.16	0.46
1:A:941:THR:O	1:A:944:MET:HB2	2.15	0.46
1:A:1185:ALA:C	1:A:1187:VAL:N	2.68	0.46
1:B:71:PHE:HE1	1:B:328:LEU:HD21	1.81	0.46
1:B:97:ARG:O	1:B:101:ALA:HB2	2.15	0.46
1:B:118:GLY:HA3	1:B:946:TYR:CG	2.50	0.46
1:B:404:GLN:H	1:B:404:GLN:CD	2.18	0.46
1:B:554:THR:HG23	1:B:555:SER:N	2.30	0.46
1:B:957:ALA:O	1:B:966:THR:HB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1164:ARG:HG2	1:B:1166:GLY:H	1.81	0.46
1:B:1185:ALA:C	1:B:1187:VAL:H	2.18	0.46
1:B:1241:VAL:HB	1:B:1249:GLU:HB2	1.96	0.46
1:B:1261:GLY:H	1:B:1264:PHE:CB	2.29	0.46
1:A:69:LEU:O	1:A:72:GLY:N	2.49	0.46
1:A:285:ILE:O	1:A:285:ILE:CD1	2.63	0.46
1:A:348:ILE:O	1:A:349:GLU:C	2.54	0.46
1:A:376:LYS:HB3	1:A:376:LYS:HE3	1.66	0.46
1:A:708:VAL:HA	1:A:711:ILE:CG2	2.46	0.46
1:A:725:SER:CB	1:A:975:SER:HB3	2.44	0.46
1:A:757:ILE:O	1:A:758:LEU:C	2.53	0.46
1:A:995:ALA:HB3	1:A:996:LYS:CE	2.45	0.46
1:A:1027:LEU:O	1:A:1028:GLU:C	2.54	0.46
1:A:1118:LEU:HD21	1:A:1180:ILE:HD12	1.98	0.46
1:A:1195:LEU:HD13	1:A:1195:LEU:N	2.31	0.46
1:A:1208:LYS:HZ2	1:A:1209:VAL:HA	1.79	0.46
1:B:148:PHE:CD2	1:B:913:GLU:OE2	2.69	0.46
1:B:321:GLU:O	1:B:323:SER:N	2.49	0.46
1:B:393:ILE:CG2	1:B:446:MET:N	2.78	0.46
1:B:445:GLY:O	1:B:446:MET:HB3	2.16	0.46
1:B:505:ALA:O	1:B:509:ILE:HG13	2.16	0.46
1:B:519:LEU:N	1:B:519:LEU:CD1	2.77	0.46
1:B:741:PRO:O	1:B:742:GLU:CB	2.63	0.46
1:B:779:ILE:O	1:B:780:LEU:C	2.53	0.46
1:B:799:TRP:HD1	1:B:800:PHE:HE1	1.62	0.46
1:B:904:VAL:HG13	1:B:905:SER:OG	2.16	0.46
1:B:920:LEU:O	1:B:921:GLN:C	2.54	0.46
1:B:930:LYS:HA	1:B:933:VAL:CG2	2.45	0.46
1:B:1202:LEU:HG	1:B:1206:SER:HB2	1.97	0.46
1:A:33:VAL:O	1:A:34:SER:C	2.54	0.46
1:A:52:VAL:O	1:A:55:LEU:HB3	2.16	0.46
1:A:118:GLY:HA2	1:A:946:TYR:CD1	2.51	0.46
1:A:505:ALA:O	1:A:509:ILE:HG13	2.15	0.46
1:A:561:SER:O	1:A:562:GLU:C	2.53	0.46
1:A:579:ILE:CG2	1:A:579:ILE:O	2.64	0.46
1:A:834:GLN:HG3	1:A:835:ASN:H	1.80	0.46
1:A:1167:ASP:O	1:A:1168:LYS:HB2	2.16	0.46
1:B:239:GLU:HB3	1:B:285:ILE:HA	1.98	0.46
1:B:257:ILE:HG21	1:B:800:PHE:CE2	2.50	0.46
1:B:286:LYS:O	1:B:290:THR:HG23	2.16	0.46
1:B:375:SER:O	1:B:376:LYS:CG	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:551:ASP:O	1:B:552:GLU:HB2	2.15	0.46
1:B:565:VAL:O	1:B:569:LEU:HG	2.16	0.46
1:B:732:VAL:CG2	1:B:733:GLY:N	2.78	0.46
1:A:149:HIS:CD2	1:A:368:LYS:NZ	2.84	0.46
1:A:202:ILE:O	1:A:204:PHE:N	2.49	0.46
1:A:208:TRP:O	1:A:209:LYS:CE	2.62	0.46
1:A:287:LYS:HA	1:A:290:THR:OG1	2.16	0.46
1:A:289:ILE:O	1:A:291:ALA:N	2.49	0.46
1:A:817:ASP:O	1:A:821:VAL:HG13	2.16	0.46
1:A:1035:GLY:O	1:A:1036:VAL:C	2.54	0.46
1:B:36:LEU:CG	1:B:37:THR:N	2.78	0.46
1:B:76:ASP:OD2	1:B:326:GLN:HG2	2.15	0.46
1:B:114:TYR:CG	1:B:115:THR:N	2.83	0.46
1:B:257:ILE:HG12	1:B:800:PHE:CE2	2.42	0.46
1:B:283:LEU:HA	1:B:286:LYS:CB	2.45	0.46
1:B:491:VAL:O	1:B:491:VAL:HG13	2.15	0.46
1:B:585:LEU:HD13	1:B:588:VAL:HG21	1.98	0.46
1:B:702:THR:C	1:B:704:TRP:N	2.68	0.46
1:B:817:ASP:O	1:B:818:ALA:C	2.53	0.46
1:B:820:GLN:O	1:B:823:GLY:N	2.49	0.46
1:B:1020:GLN:HG2	1:B:1021:GLY:H	1.80	0.46
1:A:208:TRP:C	1:A:209:LYS:CD	2.80	0.46
1:A:701:SER:HA	1:A:704:TRP:CB	2.45	0.46
1:A:920:LEU:O	1:A:921:GLN:C	2.54	0.46
1:A:939:SER:O	1:A:941:THR:N	2.49	0.46
1:A:964:LEU:CD1	1:A:966:THR:HG23	2.46	0.46
1:A:1173:SER:HB3	1:A:1176:GLN:CD	2.35	0.46
1:A:1217:ALA:O	1:A:1221:ARG:HD3	2.16	0.46
1:B:76:ASP:O	1:B:77:SER:C	2.54	0.46
1:B:268:LYS:HD3	1:B:268:LYS:C	2.36	0.46
1:B:528:SER:C	1:B:530:GLY:N	2.68	0.46
1:B:808:GLY:C	1:B:810:LEU:N	2.65	0.46
1:B:892:ILE:O	1:B:895:GLU:HB3	2.16	0.46
1:B:912:PHE:O	1:B:913:GLU:C	2.52	0.46
1:B:924:TYR:O	1:B:927:ALA:HB3	2.15	0.46
1:B:943:ALA:HB1	1:B:947:PHE:HE1	1.80	0.46
1:B:1110:GLY:HA3	1:B:1193:LEU:HD23	1.92	0.46
1:A:45:LEU:H	1:A:45:LEU:CD2	2.28	0.46
1:A:184:ASP:O	1:A:187:GLY:N	2.49	0.46
1:A:184:ASP:O	1:A:185:LYS:C	2.54	0.46
1:A:198:GLY:C	1:A:200:PHE:N	2.67	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:LEU:O	1:A:219:PRO:CD	2.64	0.46
1:A:419:VAL:HG13	1:A:579:ILE:HG12	1.98	0.46
1:A:710:GLY:O	1:A:712:PHE:N	2.49	0.46
1:A:713:CYS:SG	1:A:768:LEU:HG	2.56	0.46
1:A:1218:ARG:O	1:A:1220:GLY:N	2.48	0.46
1:B:57:ALA:HB1	1:B:190:PHE:CB	2.44	0.46
1:B:157:GLY:C	1:B:159:PHE:N	2.69	0.46
1:B:195:THR:HB	1:B:340:SER:CB	2.45	0.46
1:B:208:TRP:N	1:B:211:THR:HG22	2.31	0.46
1:B:277:LEU:O	1:B:280:ALA:HB3	2.16	0.46
1:B:282:ARG:HB3	1:B:778:GLU:HG2	1.97	0.46
1:B:324:ILE:C	1:B:326:GLN:N	2.69	0.46
1:B:498:LYS:HZ2	1:B:502:GLU:CG	2.28	0.46
1:B:706:TYR:O	1:B:706:TYR:CD1	2.68	0.46
1:B:733:GLY:C	1:B:735:PHE:H	2.19	0.46
1:B:756:LEU:CD1	1:B:757:ILE:N	2.75	0.46
1:B:760:ILE:O	1:B:761:ILE:C	2.55	0.46
1:B:813:ARG:O	1:B:817:ASP:HB2	2.16	0.46
1:B:849:TYR:HE2	1:B:972:LEU:HB3	1.80	0.46
1:B:946:TYR:OH	1:B:947:PHE:CZ	2.61	0.46
1:B:964:LEU:HD13	1:B:964:LEU:C	2.37	0.46
1:A:168:ASN:O	1:A:169:THR:C	2.54	0.45
1:A:414:LYS:H	1:A:414:LYS:CD	2.26	0.45
1:A:500:VAL:HG21	1:A:516:PHE:HZ	1.81	0.45
1:A:715:ILE:HG22	1:A:836:ILE:HG21	1.97	0.45
1:A:1020:GLN:NE2	1:A:1022:LEU:N	2.62	0.45
1:A:1097:ILE:CD1	1:A:1100:LEU:HD22	2.44	0.45
1:A:1100:LEU:HD21	1:A:1104:TRP:HZ3	1.81	0.45
1:B:111:ALA:O	1:B:114:TYR:CD1	2.69	0.45
1:B:114:TYR:CB	1:B:950:ALA:HB2	2.45	0.45
1:B:165:GLY:O	1:B:167:LEU:N	2.50	0.45
1:B:297:ALA:O	1:B:301:LEU:HB3	2.16	0.45
1:B:621:LEU:H	1:B:621:LEU:CD2	2.29	0.45
1:B:729:SER:CB	1:B:971:LEU:HB3	2.47	0.45
1:B:1045:SER:O	1:B:1046:ILE:C	2.53	0.45
1:B:1157:LEU:HD22	1:B:1157:LEU:H	1.81	0.45
1:A:60:HIS:CD2	1:A:128:GLN:OE1	2.69	0.45
1:A:128:GLN:HB2	1:A:186:ILE:HD13	1.97	0.45
1:A:188:MET:HE1	1:A:348:ILE:HD11	1.99	0.45
1:A:257:ILE:O	1:A:258:ARG:C	2.54	0.45
1:A:288:ALA:O	1:A:292:ASN:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:388:LEU:HD11	1:A:547:ILE:CD1	2.44	0.45
1:A:706:TYR:O	1:A:707:PHE:CG	2.69	0.45
1:A:756:LEU:HA	1:A:760:ILE:HD13	1.98	0.45
1:A:762:SER:O	1:A:765:THR:N	2.48	0.45
1:A:1009:GLU:O	1:A:1010:LYS:HD2	2.15	0.45
1:A:1217:ALA:O	1:A:1221:ARG:CD	2.65	0.45
1:B:218:SER:O	1:B:220:VAL:N	2.49	0.45
1:B:492:THR:C	1:B:494:ASP:N	2.69	0.45
1:B:528:SER:O	1:B:529:GLY:C	2.54	0.45
1:B:570:ASP:C	1:B:572:ALA:N	2.68	0.45
1:B:614:GLU:O	1:B:615:LYS:HB2	2.15	0.45
1:B:817:ASP:HA	1:B:820:GLN:HG3	1.97	0.45
1:B:916:TYR:O	1:B:920:LEU:HD23	2.16	0.45
1:B:943:ALA:HB1	1:B:947:PHE:CE1	2.51	0.45
1:B:1109:LEU:CG	1:B:1109:LEU:O	2.65	0.45
1:B:1185:ALA:C	1:B:1187:VAL:N	2.69	0.45
1:B:1264:PHE:O	1:B:1267:VAL:N	2.49	0.45
1:A:235:PHE:O	1:A:239:GLU:HG2	2.16	0.45
1:A:267:LYS:CA	1:A:270:LEU:HD11	2.25	0.45
1:A:550:LEU:CD2	1:A:569:LEU:HD22	2.45	0.45
1:A:872:MET:CE	1:A:873:LYS:HA	2.46	0.45
1:A:885:GLU:HB3	1:A:923:PRO:CG	2.42	0.45
1:A:1028:GLU:CB	1:A:1093:ASP:OD1	2.62	0.45
1:A:1049:LEU:HD21	1:A:1074:THR:HB	1.97	0.45
1:A:1122:SER:HA	1:A:1164:ARG:CA	2.27	0.45
1:B:207:GLY:O	1:B:209:LYS:N	2.48	0.45
1:B:306:TYR:HE1	1:B:310:PHE:CE1	2.34	0.45
1:B:315:SER:HB3	1:B:747:ASN:HD21	1.80	0.45
1:B:418:THR:CB	1:B:578:THR:HG23	2.43	0.45
1:B:520:VAL:O	1:B:522:GLU:N	2.49	0.45
1:B:720:LEU:HD22	1:B:761:ILE:CG2	2.45	0.45
1:B:769:GLN:O	1:B:773:PHE:CD2	2.70	0.45
1:B:821:VAL:O	1:B:822:LYS:C	2.54	0.45
1:B:843:ILE:HA	1:B:846:SER:HB2	1.97	0.45
1:B:892:ILE:CB	1:B:916:TYR:CZ	2.96	0.45
1:B:974:PHE:CD1	1:B:974:PHE:C	2.90	0.45
1:B:1193:LEU:HB3	1:B:1195:LEU:CD1	2.47	0.45
1:A:38:MET:SD	1:A:362:PHE:HE1	2.38	0.45
1:A:247:GLY:C	1:A:250:ALA:HB3	2.37	0.45
1:A:289:ILE:HD13	1:A:289:ILE:HA	1.87	0.45
1:A:306:TYR:HE1	1:A:310:PHE:CZ	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:385:GLN:NE2	1:A:386:GLY:O	2.50	0.45
1:A:399:SER:CB	1:A:402:GLU:OE2	2.59	0.45
1:A:431:THR:C	1:A:434:GLN:H	2.20	0.45
1:A:509:ILE:HD11	1:A:510:MET:HG2	1.97	0.45
1:A:729:SER:CB	1:A:971:LEU:HB3	2.47	0.45
1:A:1125:GLU:O	1:A:1128:ALA:HB3	2.17	0.45
1:A:1236:ALA:CB	1:A:1239:ILE:HG13	2.45	0.45
1:B:210:LEU:CA	1:B:213:VAL:HG23	2.26	0.45
1:B:232:LEU:CB	1:B:295:MET:SD	3.04	0.45
1:B:435:LEU:HD12	1:B:440:TYR:O	2.16	0.45
1:B:493:MET:O	1:B:497:GLU:HB2	2.17	0.45
1:B:509:ILE:HD12	1:B:509:ILE:C	2.36	0.45
1:B:760:ILE:HG22	1:B:761:ILE:N	2.30	0.45
1:B:1023:LYS:O	1:B:1026:MET:HG2	2.16	0.45
1:A:134:LEU:O	1:A:138:ARG:HG3	2.16	0.45
1:A:204:PHE:O	1:A:205:THR:C	2.54	0.45
1:A:257:ILE:HD11	1:A:261:ILE:HG12	1.97	0.45
1:A:724:PHE:CD1	1:A:754:LEU:HD21	2.51	0.45
1:A:821:VAL:O	1:A:824:ALA:N	2.49	0.45
1:A:1075:VAL:O	1:A:1076:VAL:C	2.55	0.45
1:B:177:LYS:O	1:B:354:ALA:CB	2.65	0.45
1:B:263:PHE:CZ	1:B:1129:TYR:HD1	2.34	0.45
1:B:282:ARG:HA	1:B:282:ARG:HD3	1.81	0.45
1:B:514:HIS:HB2	1:B:518:THR:OG1	2.16	0.45
1:B:528:SER:O	1:B:530:GLY:N	2.49	0.45
1:B:585:LEU:HA	1:B:588:VAL:HG23	1.97	0.45
1:B:788:VAL:O	1:B:791:SER:HB2	2.17	0.45
1:B:813:ARG:HA	1:B:817:ASP:OD2	2.17	0.45
1:B:999:VAL:HG12	1:B:1000:SER:N	2.31	0.45
1:B:1193:LEU:H	1:B:1223:CYS:HA	1.82	0.45
1:A:99:MET:N	1:A:99:MET:SD	2.89	0.45
1:A:214:ILE:HG12	1:A:331:PHE:CG	2.52	0.45
1:A:570:ASP:C	1:A:572:ALA:H	2.20	0.45
1:A:615:LYS:HA	1:A:619:PHE:CG	2.52	0.45
1:A:730:LYS:CD	1:A:750:LEU:HD21	2.46	0.45
1:A:792:MET:HE3	1:A:810:LEU:HD22	1.95	0.45
1:A:902:THR:C	1:A:904:VAL:H	2.20	0.45
1:A:975:SER:O	1:A:979:PHE:CG	2.70	0.45
1:A:1064:LEU:HB3	1:A:1226:ILE:CB	2.47	0.45
1:A:1185:ALA:C	1:A:1187:VAL:H	2.19	0.45
1:B:311:TRP:HH2	1:B:328:LEU:HD12	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:453:ASP:HB3	1:B:456:THR:CG2	2.47	0.45
1:B:543:ARG:NH2	1:B:907:THR:HG23	2.09	0.45
1:B:1065:VAL:O	1:B:1241:VAL:HA	2.16	0.45
1:B:1090:VAL:C	1:B:1091:PHE:CD1	2.90	0.45
1:B:1138:TYR:O	1:B:1141:ILE:N	2.50	0.45
1:A:99:MET:C	1:A:101:ALA:N	2.69	0.45
1:A:185:LYS:NZ	1:A:186:ILE:HA	2.32	0.45
1:A:392:ASN:O	1:A:392:ASN:CG	2.55	0.45
1:A:724:PHE:CE1	1:A:754:LEU:HD21	2.52	0.45
1:A:729:SER:CB	1:A:972:LEU:HD12	2.46	0.45
1:A:1091:PHE:C	1:A:1093:ASP:N	2.70	0.45
1:A:1133:SER:O	1:A:1134:ARG:C	2.55	0.45
1:A:1157:LEU:O	1:A:1158:PRO:O	2.35	0.45
1:A:1236:ALA:CB	1:A:1239:ILE:CD1	2.90	0.45
1:B:210:LEU:C	1:B:213:VAL:H	2.19	0.45
1:B:454:ILE:O	1:B:457:ILE:HG12	2.17	0.45
1:B:501:LYS:HG3	1:B:506:TYR:CB	2.47	0.45
1:B:1236:ALA:CB	1:B:1239:ILE:CD1	2.94	0.45
1:B:1239:ILE:O	1:B:1250:HIS:HA	2.16	0.45
1:A:212:LEU:O	1:A:213:VAL:C	2.53	0.45
1:A:281:LYS:O	1:A:285:ILE:HG22	2.16	0.45
1:A:359:TYR:C	1:A:362:PHE:HB3	2.37	0.45
1:A:387:ASN:ND2	1:A:415:SER:H	2.15	0.45
1:A:413:VAL:HG13	1:A:413:VAL:O	2.17	0.45
1:A:1176:GLN:O	1:A:1180:ILE:HG13	2.16	0.45
1:B:113:TYR:CD2	1:B:114:TYR:N	2.84	0.45
1:B:155:GLU:OE1	1:B:155:GLU:N	2.50	0.45
1:B:306:TYR:HE1	1:B:310:PHE:CZ	2.34	0.45
1:B:396:SER:N	1:B:443:LEU:CD1	2.65	0.45
1:B:433:VAL:HG13	1:B:549:LEU:HD23	1.99	0.45
1:B:448:SER:HA	1:B:453:ASP:HA	1.99	0.45
1:B:552:GLU:O	1:B:555:SER:HB2	2.16	0.45
1:B:724:PHE:CE1	1:B:754:LEU:HD21	2.52	0.45
1:B:918:GLN:O	1:B:919:SER:C	2.54	0.45
1:B:975:SER:O	1:B:979:PHE:CG	2.69	0.45
1:B:1166:GLY:O	1:B:1167:ASP:HB3	2.17	0.45
1:B:1167:ASP:O	1:B:1168:LYS:HB2	2.17	0.45
1:A:251:GLU:CD	1:A:811:THR:HB	2.37	0.45
1:A:282:ARG:HD3	1:A:286:LYS:HZ3	1.82	0.45
1:A:764:ILE:O	1:A:765:THR:C	2.55	0.45
1:A:849:TYR:CE2	1:A:972:LEU:HB3	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:921:GLN:O	1:A:924:TYR:HB3	2.17	0.45
1:A:992:PRO:C	1:A:994:TYR:N	2.69	0.45
1:A:1067:SER:OG	1:A:1244:ASN:ND2	2.50	0.45
1:B:88:SER:C	1:B:90:ASN:H	2.20	0.45
1:B:121:VAL:O	1:B:122:LEU:C	2.53	0.45
1:B:168:ASN:O	1:B:171:LEU:HB3	2.17	0.45
1:B:255:ALA:O	1:B:256:ALA:HB3	2.17	0.45
1:B:263:PHE:HE2	1:B:266:GLN:HE22	0.58	0.45
1:B:298:ALA:O	1:B:299:PHE:C	2.54	0.45
1:B:527:LEU:HD23	1:B:527:LEU:N	2.32	0.45
1:B:547:ILE:HA	1:B:577:THR:O	2.16	0.45
1:B:549:LEU:HA	1:B:579:ILE:O	2.17	0.45
1:B:617:ILE:O	1:B:621:LEU:HD23	2.16	0.45
1:B:753:LEU:O	1:B:757:ILE:HB	2.17	0.45
1:B:764:ILE:O	1:B:765:THR:C	2.55	0.45
1:A:57:ALA:HB1	1:A:190:PHE:CA	2.47	0.45
1:A:102:LYS:HE3	1:A:102:LYS:CA	2.46	0.45
1:A:135:ALA:O	1:A:137:GLY:N	2.50	0.45
1:A:322:TYR:CD2	1:A:324:ILE:HD11	2.52	0.45
1:A:589:ARG:C	1:A:591:ALA:H	2.19	0.45
1:A:692:SER:OG	1:A:695:ARG:HB3	2.17	0.45
1:A:810:LEU:O	1:A:814:LEU:HD23	2.16	0.45
1:A:969:ASN:O	1:A:972:LEU:N	2.48	0.45
1:B:230:LYS:HA	1:B:230:LYS:HD3	1.75	0.45
1:B:409:LEU:HD22	1:B:410:ASN:O	2.17	0.45
1:B:429:LYS:HB3	1:B:597:PHE:CD2	2.52	0.45
1:B:716:ILE:HG13	1:B:717:ASN:N	2.32	0.45
1:B:762:SER:O	1:B:765:THR:N	2.50	0.45
1:B:931:ALA:O	1:B:932:HIS:C	2.54	0.45
1:A:55:LEU:O	1:A:58:ILE:HB	2.17	0.44
1:A:202:ILE:C	1:A:204:PHE:H	2.20	0.44
1:A:218:SER:O	1:A:219:PRO:C	2.56	0.44
1:A:355:ARG:O	1:A:356:GLY:C	2.56	0.44
1:A:385:GLN:CG	1:A:386:GLY:N	2.80	0.44
1:A:514:HIS:HB2	1:A:518:THR:OG1	2.17	0.44
1:A:788:VAL:CG2	1:A:1004:ILE:HG12	2.47	0.44
1:A:1005:ILE:CA	1:A:1008:ILE:HG22	2.45	0.44
1:A:1129:TYR:HD2	1:A:1184:ARG:CB	2.29	0.44
1:A:1131:ASP:OD1	1:A:1134:ARG:HB2	2.17	0.44
1:A:1243:GLN:O	1:A:1244:ASN:C	2.55	0.44
1:B:131:PHE:HZ	1:B:185:LYS:NZ	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:HIS:C	1:B:164:VAL:H	2.19	0.44
1:B:327:VAL:O	1:B:328:LEU:C	2.55	0.44
1:B:375:SER:O	1:B:376:LYS:HG3	2.17	0.44
1:B:454:ILE:CG2	1:B:455:ARG:H	2.19	0.44
1:B:550:LEU:CD2	1:B:569:LEU:HD22	2.47	0.44
1:B:584:ARG:O	1:B:588:VAL:HG23	2.17	0.44
1:B:853:LEU:HD11	1:B:956:GLY:CA	2.46	0.44
1:B:964:LEU:CD1	1:B:965:MET:N	2.76	0.44
1:B:1004:ILE:O	1:B:1008:ILE:HG22	2.17	0.44
1:B:1015:ASP:O	1:B:1016:SER:O	2.35	0.44
1:B:1023:LYS:HB3	1:B:1026:MET:HG2	1.98	0.44
1:B:1048:VAL:CG2	1:B:1074:THR:HG21	2.47	0.44
1:B:1049:LEU:HD21	1:B:1074:THR:CB	2.47	0.44
1:A:210:LEU:O	1:A:213:VAL:N	2.50	0.44
1:A:753:LEU:HD12	1:A:757:ILE:CG1	2.47	0.44
1:A:780:LEU:O	1:A:784:LEU:HD23	2.18	0.44
1:A:797:VAL:O	1:A:801:ASP:HB2	2.17	0.44
1:A:912:PHE:O	1:A:915:MET:N	2.49	0.44
1:A:1025:ASN:O	1:A:1027:LEU:N	2.50	0.44
1:A:1065:VAL:HG13	1:A:1065:VAL:O	2.18	0.44
1:B:53:GLY:HA3	1:B:131:PHE:HB2	1.99	0.44
1:B:69:LEU:O	1:B:72:GLY:N	2.50	0.44
1:B:71:PHE:HA	1:B:74:MET:HE3	1.99	0.44
1:B:201:ILE:HG22	1:B:202:ILE:HG23	2.00	0.44
1:B:218:SER:O	1:B:219:PRO:C	2.53	0.44
1:B:261:ILE:HG23	1:B:1106:ARG:HH11	1.81	0.44
1:B:357:ALA:O	1:B:358:ALA:O	2.35	0.44
1:B:453:ASP:O	1:B:454:ILE:C	2.55	0.44
1:B:492:THR:C	1:B:494:ASP:H	2.20	0.44
1:B:560:GLU:OE2	1:B:560:GLU:C	2.55	0.44
1:B:843:ILE:HG22	1:B:844:ILE:HD13	1.99	0.44
1:B:893:ALA:HA	1:B:916:TYR:HE2	1.82	0.44
1:B:995:ALA:N	1:B:996:LYS:NZ	2.62	0.44
1:B:995:ALA:C	1:B:997:ALA:N	2.70	0.44
1:A:95:ASP:O	1:A:99:MET:HB2	2.18	0.44
1:A:753:LEU:O	1:A:757:ILE:HB	2.17	0.44
1:A:790:LYS:CB	1:A:794:ARG:NH2	2.79	0.44
1:A:812:THR:HG22	1:A:816:ASN:HD22	1.80	0.44
1:A:919:SER:O	1:A:920:LEU:C	2.55	0.44
1:B:170:ARG:NH1	1:B:174:ASP:OD1	2.51	0.44
1:B:215:LEU:O	1:B:219:PRO:HB2	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:281:LYS:H	1:B:281:LYS:HD2	1.81	0.44
1:B:297:ALA:O	1:B:301:LEU:HB2	2.18	0.44
1:B:301:LEU:HD13	1:B:763:PHE:HB2	1.99	0.44
1:B:543:ARG:NH2	1:B:905:SER:CA	2.80	0.44
1:B:711:ILE:HG13	1:B:832:ILE:CG2	2.38	0.44
1:B:729:SER:CB	1:B:972:LEU:HD12	2.48	0.44
1:B:853:LEU:N	1:B:853:LEU:HD22	2.32	0.44
1:B:1005:ILE:O	1:B:1009:GLU:CG	2.64	0.44
1:A:151:ILE:HD12	1:A:167:LEU:CD1	2.33	0.44
1:A:188:MET:CE	1:A:348:ILE:HD11	2.47	0.44
1:A:210:LEU:C	1:A:212:LEU:H	2.19	0.44
1:A:267:LYS:HA	1:A:270:LEU:CD1	2.26	0.44
1:A:293:ILE:CG2	1:A:766:PHE:HB3	2.48	0.44
1:A:585:LEU:HD23	1:A:625:GLN:NE2	2.32	0.44
1:A:758:LEU:O	1:A:759:GLY:C	2.55	0.44
1:A:1097:ILE:CD1	1:A:1100:LEU:CD2	2.94	0.44
1:A:1104:TRP:HA	1:A:1107:ALA:HB2	1.99	0.44
1:A:1111:ILE:O	1:A:1112:VAL:HG23	2.17	0.44
1:A:1112:VAL:HG11	1:A:1182:ILE:CD1	2.48	0.44
1:A:1129:TYR:O	1:A:1131:ASP:CG	2.56	0.44
1:B:286:LYS:O	1:B:289:ILE:HB	2.17	0.44
1:B:484:ILE:O	1:B:487:GLY:N	2.50	0.44
1:B:689:PRO:HG2	1:B:690:PRO:HD3	1.99	0.44
1:B:849:TYR:CB	1:B:854:THR:HG23	2.46	0.44
1:B:905:SER:HB2	1:B:907:THR:OG1	2.17	0.44
1:B:970:VAL:HA	1:B:973:VAL:HG23	1.99	0.44
1:B:996:LYS:N	1:B:996:LYS:CD	2.58	0.44
1:B:1030:ASN:OD1	1:B:1057:LYS:HA	2.17	0.44
1:B:1079:LEU:HD23	1:B:1194:LEU:HD21	1.99	0.44
1:A:43:GLY:HA3	1:A:46:ASP:HB2	1.99	0.44
1:A:158:TRP:HZ2	1:A:900:PHE:CA	2.30	0.44
1:A:278:GLU:HG2	1:A:282:ARG:HH21	1.82	0.44
1:A:382:ASP:C	1:A:384:ILE:N	2.71	0.44
1:A:711:ILE:CG1	1:A:715:ILE:HD11	2.47	0.44
1:A:894:THR:O	1:A:898:GLU:CB	2.64	0.44
1:B:39:PHE:CD2	1:B:355:ARG:HA	2.51	0.44
1:B:393:ILE:HD13	1:B:393:ILE:N	2.32	0.44
1:B:496:ILE:O	1:B:499:ALA:N	2.51	0.44
1:B:748:SER:O	1:B:751:PHE:CD1	2.70	0.44
1:B:779:ILE:HD12	1:B:783:ARG:NH2	2.33	0.44
1:B:792:MET:HE3	1:B:810:LEU:HD22	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:902:THR:O	1:B:904:VAL:N	2.50	0.44
1:B:904:VAL:CG1	1:B:905:SER:N	2.81	0.44
1:B:1032:GLN:HE21	1:B:1055:GLU:HG3	1.82	0.44
1:B:1185:ALA:O	1:B:1187:VAL:N	2.51	0.44
1:A:613:ARG:HE	1:A:613:ARG:HB3	1.68	0.44
1:A:821:VAL:HG23	1:A:822:LYS:N	2.33	0.44
1:A:872:MET:HE2	1:A:872:MET:O	2.17	0.44
1:A:1020:GLN:HG3	1:A:1101:ASN:H	1.82	0.44
1:B:33:VAL:O	1:B:34:SER:C	2.55	0.44
1:B:34:SER:O	1:B:38:MET:HB2	2.17	0.44
1:B:128:GLN:HE21	1:B:186:ILE:CD1	2.26	0.44
1:B:155:GLU:OE1	1:B:155:GLU:CA	2.66	0.44
1:B:195:THR:HG23	1:B:196:PHE:N	2.33	0.44
1:B:221:LEU:HD13	1:B:306:TYR:HA	1.97	0.44
1:B:236:THR:HA	1:B:288:ALA:HB1	2.00	0.44
1:B:330:VAL:O	1:B:331:PHE:C	2.55	0.44
1:B:361:VAL:CA	1:B:364:ILE:HB	2.48	0.44
1:B:363:LYS:HB2	1:B:363:LYS:HE3	1.72	0.44
1:B:450:ASP:CG	1:B:451:GLY:N	2.71	0.44
1:B:821:VAL:C	1:B:823:GLY:N	2.70	0.44
1:B:855:LEU:O	1:B:856:LEU:C	2.56	0.44
1:B:1103:GLN:OE1	1:B:1103:GLN:HA	2.16	0.44
1:A:246:ALA:HB2	1:A:277:LEU:HD12	1.99	0.44
1:A:361:VAL:CA	1:A:364:ILE:HB	2.47	0.44
1:A:431:THR:O	1:A:434:GLN:HB3	2.18	0.44
1:A:566:GLN:HA	1:A:569:LEU:HD12	1.99	0.44
1:A:614:GLU:O	1:A:615:LYS:HB2	2.18	0.44
1:A:904:VAL:HG13	1:A:905:SER:OG	2.18	0.44
1:A:943:ALA:O	1:A:944:MET:C	2.54	0.44
1:A:995:ALA:C	1:A:997:ALA:N	2.69	0.44
1:A:1079:LEU:C	1:A:1081:ARG:H	2.21	0.44
1:A:1204:THR:N	1:A:1207:GLU:OE1	2.51	0.44
1:A:1206:SER:O	1:A:1207:GLU:C	2.54	0.44
1:A:1213:ALA:C	1:A:1215:ASP:N	2.71	0.44
1:B:52:VAL:HG12	1:B:53:GLY:N	2.32	0.44
1:B:144:ARG:NH1	1:B:175:VAL:HG21	2.32	0.44
1:B:361:VAL:HA	1:B:364:ILE:HB	2.00	0.44
1:B:750:LEU:O	1:B:753:LEU:HB3	2.17	0.44
1:B:852:GLN:O	1:B:955:PHE:CD1	2.71	0.44
1:B:956:GLY:O	1:B:957:ALA:C	2.56	0.44
1:B:1164:ARG:O	1:B:1166:GLY:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1195:LEU:N	1:B:1195:LEU:CD1	2.80	0.44
1:A:35:VAL:HG21	1:A:355:ARG:HH21	1.83	0.44
1:A:45:LEU:HD22	1:A:45:LEU:N	2.29	0.44
1:A:334:VAL:CG1	1:A:335:LEU:N	2.80	0.44
1:A:435:LEU:O	1:A:437:GLN:N	2.51	0.44
1:A:438:ARG:O	1:A:439:LEU:C	2.56	0.44
1:A:519:LEU:HB2	1:A:520:VAL:H	1.68	0.44
1:A:702:THR:C	1:A:704:TRP:N	2.71	0.44
1:A:709:VAL:O	1:A:712:PHE:HB3	2.17	0.44
1:A:856:LEU:CD1	1:A:955:PHE:CD1	2.66	0.44
1:A:940:PHE:CD1	1:A:940:PHE:C	2.90	0.44
1:B:220:VAL:O	1:B:223:LEU:HB2	2.17	0.44
1:B:566:GLN:O	1:B:570:ASP:OD1	2.35	0.44
1:B:585:LEU:H	1:B:585:LEU:HD22	1.83	0.44
1:B:730:LYS:HD3	1:B:750:LEU:CD2	2.45	0.44
1:B:856:LEU:HD22	1:B:955:PHE:HD1	1.82	0.44
1:B:995:ALA:O	1:B:997:ALA:N	2.51	0.44
1:A:216:ALA:O	1:A:217:ILE:C	2.56	0.44
1:A:291:ALA:O	1:A:295:MET:N	2.51	0.44
1:A:291:ALA:O	1:A:295:MET:SD	2.76	0.44
1:A:498:LYS:NZ	1:A:502:GLU:HG3	2.32	0.44
1:A:551:ASP:C	1:A:553:ALA:N	2.71	0.44
1:A:727:ILE:HD11	1:A:750:LEU:O	2.17	0.44
1:A:946:TYR:O	1:A:947:PHE:C	2.56	0.44
1:A:971:LEU:HD22	1:A:971:LEU:N	2.33	0.44
1:A:1058:LYS:O	1:A:1060:GLN:N	2.51	0.44
1:B:149:HIS:CD2	1:B:368:LYS:NZ	2.86	0.44
1:B:171:LEU:C	1:B:171:LEU:CD1	2.86	0.44
1:B:286:LYS:HE3	1:B:822:LYS:NZ	2.33	0.44
1:B:338:ALA:O	1:B:339:PHE:C	2.54	0.44
1:B:684:LEU:HD12	1:B:684:LEU:O	2.18	0.44
1:B:721:GLN:HB3	1:B:982:MET:HE3	2.00	0.44
1:B:820:GLN:HG3	1:B:1000:SER:HB3	2.00	0.44
1:B:872:MET:CE	1:B:873:LYS:HA	2.48	0.44
1:B:1113:SER:OG	1:B:1114:GLN:N	2.51	0.44
1:B:1171:GLN:O	1:B:1172:LEU:HG	2.18	0.44
1:A:150:ALA:O	1:A:151:ILE:C	2.55	0.43
1:A:185:LYS:HE3	1:A:185:LYS:HB3	1.83	0.43
1:A:248:ALA:O	1:A:251:GLU:HB2	2.18	0.43
1:A:257:ILE:HG12	1:A:800:PHE:CD2	2.44	0.43
1:A:308:LEU:HD23	1:A:309:ALA:H	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:ILE:HD11	1:A:409:LEU:CD1	2.48	0.43
1:A:411:LEU:HD23	1:A:412:LYS:C	2.39	0.43
1:A:710:GLY:O	1:A:711:ILE:C	2.54	0.43
1:A:716:ILE:CG1	1:A:717:ASN:N	2.81	0.43
1:A:755:PHE:CG	1:A:756:LEU:N	2.84	0.43
1:A:889:SER:OG	1:A:919:SER:HB2	2.18	0.43
1:A:908:ARG:HA	1:A:911:LYS:HB3	1.99	0.43
1:A:962:GLN:O	1:A:963:GLN:CB	2.65	0.43
1:A:1039:ASN:CB	1:A:1047:PRO:HG3	2.48	0.43
1:A:1092:LEU:H	1:A:1097:ILE:CG1	2.31	0.43
1:A:1138:TYR:O	1:A:1141:ILE:N	2.51	0.43
1:B:268:LYS:O	1:B:269:GLU:C	2.57	0.43
1:B:271:GLU:HG3	1:B:786:TYR:CZ	2.52	0.43
1:B:404:GLN:O	1:B:405:ILE:C	2.56	0.43
1:B:795:GLN:O	1:B:796:ASP:CG	2.55	0.43
1:B:796:ASP:OD1	1:B:1014:ILE:CG2	2.66	0.43
1:B:910:GLN:NE2	1:B:910:GLN:HA	2.32	0.43
1:B:1170:THR:O	1:B:1170:THR:HG22	2.17	0.43
1:A:71:PHE:CE1	1:A:328:LEU:HD21	2.53	0.43
1:A:157:GLY:C	1:A:159:PHE:N	2.72	0.43
1:A:183:GLY:O	1:A:186:ILE:HG13	2.18	0.43
1:A:207:GLY:O	1:A:208:TRP:C	2.56	0.43
1:A:211:THR:O	1:A:215:LEU:HG	2.18	0.43
1:A:290:THR:O	1:A:294:SER:OG	2.23	0.43
1:A:393:ILE:CG2	1:A:446:MET:N	2.81	0.43
1:A:751:PHE:CD1	1:A:752:SER:N	2.86	0.43
1:A:909:GLU:HB3	1:A:910:GLN:H	1.57	0.43
1:A:967:PHE:N	1:A:967:PHE:CD2	2.86	0.43
1:A:1048:VAL:CG2	1:A:1074:THR:HG21	2.47	0.43
1:B:111:ALA:HA	1:B:114:TYR:CE1	2.53	0.43
1:B:163:ASP:CB	1:B:166:GLU:HB3	2.27	0.43
1:B:773:PHE:CD1	1:B:774:GLY:N	2.86	0.43
1:B:866:ILE:O	1:B:870:VAL:HG12	2.17	0.43
1:B:964:LEU:C	1:B:966:THR:N	2.65	0.43
1:B:1091:PHE:CD1	1:B:1095:LYS:C	2.91	0.43
1:B:1132:ASN:C	1:B:1134:ARG:N	2.71	0.43
1:A:118:GLY:CA	1:A:946:TYR:CG	3.01	0.43
1:A:142:LYS:O	1:A:143:ILE:C	2.56	0.43
1:A:174:ASP:O	1:A:178:ILE:HG12	2.19	0.43
1:A:190:PHE:CD1	1:A:190:PHE:C	2.92	0.43
1:A:374:PHE:CZ	1:A:376:LYS:CB	3.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:404:GLN:CD	1:A:404:GLN:H	2.21	0.43
1:A:447:VAL:HG22	1:A:454:ILE:HG22	2.00	0.43
1:A:584:ARG:O	1:A:587:THR:N	2.45	0.43
1:A:782:LYS:C	1:A:784:LEU:H	2.22	0.43
1:A:830:ALA:O	1:A:834:GLN:HG2	2.19	0.43
1:A:1139:GLU:O	1:A:1142:VAL:HB	2.18	0.43
1:A:1154:ILE:CG1	1:A:1161:TYR:CE2	3.00	0.43
1:B:33:VAL:CA	1:B:37:THR:HB	2.47	0.43
1:B:188:MET:HB2	1:B:347:ASN:CB	2.46	0.43
1:B:585:LEU:HD12	1:B:618:TYR:HE1	1.82	0.43
1:B:722:PRO:HA	1:B:979:PHE:HE1	1.82	0.43
1:B:834:GLN:NE2	1:B:983:ALA:HB1	2.34	0.43
1:B:861:VAL:HB	1:B:862:PRO:HD3	1.99	0.43
1:B:1001:ALA:O	1:B:1005:ILE:HG13	2.18	0.43
1:B:1060:GLN:HB2	1:B:1061:THR:H	1.56	0.43
1:B:1062:LEU:HD12	1:B:1224:ILE:CG2	2.45	0.43
1:B:1129:TYR:HD2	1:B:1184:ARG:CB	2.28	0.43
1:B:1137:SER:O	1:B:1140:GLU:CB	2.66	0.43
1:B:1238:LEU:C	1:B:1239:ILE:HD12	2.39	0.43
1:A:129:VAL:HB	1:A:935:GLY:HA2	2.01	0.43
1:A:265:GLY:HA2	1:A:793:LEU:HD21	1.99	0.43
1:A:274:ASN:N	1:A:274:ASN:HD22	2.17	0.43
1:A:287:LYS:O	1:A:291:ALA:N	2.52	0.43
1:A:311:TRP:HD1	1:A:754:LEU:HD13	1.73	0.43
1:A:318:ILE:HG21	1:A:735:PHE:CZ	2.52	0.43
1:A:603:VAL:HG21	1:A:617:ILE:HG13	2.00	0.43
1:A:748:SER:O	1:A:751:PHE:HD1	2.02	0.43
1:A:782:LYS:O	1:A:784:LEU:N	2.52	0.43
1:A:821:VAL:C	1:A:823:GLY:N	2.69	0.43
1:A:916:TYR:O	1:A:920:LEU:HD23	2.17	0.43
1:A:1168:LYS:HD2	1:A:1168:LYS:N	2.34	0.43
1:B:411:LEU:HD23	1:B:412:LYS:O	2.18	0.43
1:B:428:GLY:N	1:B:431:THR:OG1	2.51	0.43
1:B:447:VAL:HG23	1:B:448:SER:N	2.34	0.43
1:B:470:SER:O	1:B:471:GLN:O	2.37	0.43
1:B:851:TRP:HA	1:B:855:LEU:H	1.84	0.43
1:B:894:THR:O	1:B:895:GLU:C	2.56	0.43
1:B:907:THR:CA	1:B:908:ARG:HH11	2.28	0.43
1:B:936:ILE:HG23	1:B:937:THR:H	1.83	0.43
1:B:1052:LEU:HG	1:B:1054:LEU:HD21	2.00	0.43
1:B:1056:VAL:HG13	1:B:1056:VAL:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1104:TRP:O	1:B:1107:ALA:CB	2.67	0.43
1:B:1123:ILE:HD12	1:B:1123:ILE:C	2.39	0.43
1:A:93:GLU:HA	1:A:96:LYS:NZ	2.33	0.43
1:A:140:ILE:O	1:A:143:ILE:N	2.51	0.43
1:A:267:LYS:C	1:A:790:LYS:HE2	2.39	0.43
1:A:426:GLY:HA2	1:A:429:LYS:NZ	2.29	0.43
1:A:820:GLN:O	1:A:823:GLY:N	2.52	0.43
1:A:912:PHE:HB3	1:A:913:GLU:H	1.64	0.43
1:A:962:GLN:O	1:A:962:GLN:HG2	2.17	0.43
1:A:1144:ALA:O	1:A:1145:ALA:C	2.56	0.43
1:A:1153:PHE:CE2	1:A:1172:LEU:HD21	2.53	0.43
1:B:281:LYS:O	1:B:282:ARG:O	2.36	0.43
1:B:315:SER:HA	1:B:318:ILE:CG2	2.49	0.43
1:B:375:SER:HB2	1:B:376:LYS:CE	2.47	0.43
1:B:581:ILE:HD13	1:B:582:ALA:N	2.33	0.43
1:B:788:VAL:HG21	1:B:1004:ILE:CG1	2.48	0.43
1:B:883:LYS:HA	1:B:886:LEU:CD2	2.48	0.43
1:B:1263:TYR:O	1:B:1267:VAL:HG23	2.18	0.43
1:A:99:MET:HA	1:A:99:MET:HE3	1.99	0.43
1:A:200:PHE:O	1:A:203:GLY:N	2.51	0.43
1:A:206:ARG:HA	1:A:206:ARG:HD2	1.85	0.43
1:A:282:ARG:C	1:A:286:LYS:HB2	2.35	0.43
1:A:312:TYR:O	1:A:314:THR:N	2.51	0.43
1:A:459:VAL:C	1:A:461:TYR:N	2.71	0.43
1:A:504:ASN:ND2	1:A:564:VAL:HG12	2.34	0.43
1:A:621:LEU:H	1:A:621:LEU:CD2	2.31	0.43
1:A:950:ALA:O	1:A:951:ALA:C	2.56	0.43
1:A:1013:GLU:O	1:A:1014:ILE:CG2	2.57	0.43
1:A:1096:GLU:O	1:A:1099:GLN:C	2.57	0.43
1:A:1117:ILE:HD12	1:A:1118:LEU:N	2.25	0.43
1:A:1143:ARG:HG2	1:A:1143:ARG:HH11	1.83	0.43
1:A:1153:PHE:HE2	1:A:1172:LEU:CD2	2.31	0.43
1:A:1170:THR:O	1:A:1171:GLN:HB3	2.19	0.43
1:B:44:TRP:C	1:B:46:ASP:N	2.72	0.43
1:B:70:ILE:O	1:B:71:PHE:C	2.57	0.43
1:B:71:PHE:HE2	1:B:953:PHE:CE1	2.36	0.43
1:B:131:PHE:HZ	1:B:185:LYS:CE	2.32	0.43
1:B:207:GLY:HA3	1:B:211:THR:CA	2.48	0.43
1:B:236:THR:HG22	1:B:237:ASP:N	2.33	0.43
1:B:282:ARG:CA	1:B:286:LYS:HD3	2.48	0.43
1:B:551:ASP:C	1:B:553:ALA:N	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:690:PRO:HG2	1:B:1006:ARG:HH22	1.83	0.43
1:B:757:ILE:O	1:B:758:LEU:C	2.56	0.43
1:B:849:TYR:CD1	1:B:854:THR:HA	2.45	0.43
1:B:870:VAL:HG13	1:B:871:GLU:N	2.34	0.43
1:B:1046:ILE:HA	1:B:1047:PRO:HD3	1.80	0.43
1:B:1052:LEU:HG	1:B:1054:LEU:CD2	2.49	0.43
1:B:1075:VAL:O	1:B:1076:VAL:C	2.56	0.43
1:A:139:GLN:O	1:A:143:ILE:HG12	2.19	0.43
1:A:140:ILE:O	1:A:144:ARG:N	2.52	0.43
1:A:257:ILE:CG2	1:A:800:PHE:CD2	3.02	0.43
1:A:270:LEU:HD13	1:A:789:PHE:CD1	2.54	0.43
1:A:287:LYS:HA	1:A:290:THR:HG1	1.84	0.43
1:A:312:TYR:C	1:A:314:THR:N	2.71	0.43
1:A:358:ALA:O	1:A:362:PHE:N	2.52	0.43
1:A:363:LYS:HE3	1:A:363:LYS:HB2	1.73	0.43
1:A:552:GLU:O	1:A:555:SER:N	2.49	0.43
1:A:625:GLN:HE21	1:A:625:GLN:HB3	1.67	0.43
1:A:693:PHE:C	1:A:695:ARG:H	2.21	0.43
1:A:896:ALA:CB	1:A:912:PHE:CE1	3.02	0.43
1:A:898:GLU:O	1:A:898:GLU:HG2	2.18	0.43
1:A:1037:VAL:HG21	1:A:1087:ALA:HB3	1.99	0.43
1:B:188:MET:CE	1:B:348:ILE:HD11	2.48	0.43
1:B:207:GLY:HA3	1:B:211:THR:CB	2.49	0.43
1:B:361:VAL:HA	1:B:364:ILE:CG1	2.49	0.43
1:B:732:VAL:O	1:B:736:THR:HG23	2.19	0.43
1:B:1124:ALA:HA	1:B:1127:ILE:HD12	1.99	0.43
1:B:1144:ALA:O	1:B:1145:ALA:C	2.56	0.43
1:A:282:ARG:HA	1:A:282:ARG:HD3	1.85	0.43
1:A:303:TYR:CE2	1:A:306:TYR:CE2	3.06	0.43
1:A:361:VAL:HA	1:A:364:ILE:HB	2.01	0.43
1:A:458:ASN:ND2	1:A:459:VAL:N	2.66	0.43
1:A:513:PRO:O	1:A:515:GLN:N	2.49	0.43
1:A:554:THR:OG1	1:A:562:GLU:HG3	2.19	0.43
1:A:716:ILE:HG13	1:A:717:ASN:N	2.33	0.43
1:A:918:GLN:O	1:A:919:SER:C	2.56	0.43
1:A:1109:LEU:N	1:A:1109:LEU:HD23	2.34	0.43
1:A:1171:GLN:O	1:A:1172:LEU:HG	2.19	0.43
1:B:186:ILE:C	1:B:186:ILE:HD12	2.39	0.43
1:B:398:PRO:HD3	1:B:440:TYR:HE2	1.83	0.43
1:B:438:ARG:O	1:B:439:LEU:C	2.57	0.43
1:B:490:ASP:O	1:B:491:VAL:HB	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:716:ILE:HD12	1:B:717:ASN:N	2.33	0.43
1:B:1154:ILE:HG12	1:B:1161:TYR:HE2	1.82	0.43
1:A:95:ASP:O	1:A:99:MET:SD	2.76	0.43
1:A:107:MET:HE1	1:A:954:ARG:HD2	1.98	0.43
1:A:447:VAL:HG23	1:A:448:SER:N	2.33	0.43
1:A:500:VAL:O	1:A:503:ALA:N	2.51	0.43
1:A:607:ASN:CB	1:A:610:GLU:HG3	2.43	0.43
1:A:717:ASN:O	1:A:720:LEU:CB	2.63	0.43
1:A:731:VAL:CG2	1:A:750:LEU:HB3	2.49	0.43
1:A:773:PHE:O	1:A:776:ALA:HB3	2.19	0.43
1:A:836:ILE:O	1:A:837:ALA:C	2.56	0.43
1:A:896:ALA:O	1:A:899:ASN:N	2.47	0.43
1:A:1264:PHE:O	1:A:1267:VAL:N	2.52	0.43
1:B:118:GLY:O	1:B:119:ALA:C	2.55	0.43
1:B:134:LEU:O	1:B:138:ARG:HG3	2.18	0.43
1:B:207:GLY:HA2	1:B:210:LEU:HB3	2.00	0.43
1:B:252:GLU:N	1:B:252:GLU:CD	2.72	0.43
1:B:585:LEU:HD22	1:B:585:LEU:N	2.34	0.43
1:B:721:GLN:CB	1:B:982:MET:HE3	2.48	0.43
1:B:902:THR:CA	1:B:904:VAL:HG12	2.48	0.43
1:B:908:ARG:O	1:B:911:LYS:CB	2.63	0.43
1:B:919:SER:O	1:B:920:LEU:C	2.57	0.43
1:A:573:ARG:HD2	1:A:578:THR:CG2	2.46	0.43
1:A:918:GLN:NE2	1:B:482:GLU:OE2	2.52	0.43
1:A:956:GLY:O	1:A:957:ALA:C	2.57	0.43
1:A:1092:LEU:CD1	1:A:1104:TRP:HZ3	2.32	0.43
1:A:1196:ASP:O	1:A:1198:ALA:N	2.52	0.43
1:B:49:TYR:O	1:B:52:VAL:HB	2.18	0.43
1:B:477:ALA:HB2	1:B:523:ARG:H	1.84	0.43
1:B:611:LEU:HB3	1:B:618:TYR:CB	2.47	0.43
1:B:732:VAL:CG2	1:B:733:GLY:H	2.30	0.43
1:B:887:GLU:O	1:B:891:LYS:HB2	2.19	0.43
1:B:940:PHE:C	1:B:940:PHE:CD1	2.92	0.43
1:B:993:ASP:C	1:B:995:ALA:N	2.73	0.43
1:B:1057:LYS:H	1:B:1057:LYS:CD	2.30	0.43
1:A:33:VAL:N	1:A:36:LEU:CD1	2.80	0.42
1:A:98:ALA:CB	1:A:99:MET:HE1	2.49	0.42
1:A:795:GLN:OE1	1:A:1010:LYS:CB	2.67	0.42
1:A:883:LYS:HA	1:A:886:LEU:CD2	2.47	0.42
1:A:995:ALA:HB3	1:A:996:LYS:HD3	2.01	0.42
1:A:1011:THR:O	1:A:1012:PRO:C	2.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1040:TYR:O	1:A:1041:PRO:C	2.58	0.42
1:A:1150:ILE:CA	1:A:1179:ARG:HD3	2.46	0.42
1:B:57:ALA:HB1	1:B:190:PHE:CA	2.49	0.42
1:B:121:VAL:CG2	1:B:122:LEU:H	2.29	0.42
1:B:312:TYR:O	1:B:314:THR:N	2.52	0.42
1:B:324:ILE:HB	1:B:326:GLN:CB	2.46	0.42
1:B:385:GLN:CG	1:B:386:GLY:N	2.81	0.42
1:B:496:ILE:H	1:B:496:ILE:CD1	2.27	0.42
1:B:625:GLN:O	1:B:626:THR:CB	2.67	0.42
1:B:1138:TYR:C	1:B:1140:GLU:N	2.72	0.42
1:B:1217:ALA:O	1:B:1221:ARG:CD	2.67	0.42
1:B:1253:HIS:O	1:B:1256:LEU:HB2	2.18	0.42
1:A:132:TRP:CG	1:A:183:GLY:HA3	2.54	0.42
1:A:155:GLU:OE1	1:A:155:GLU:N	2.52	0.42
1:A:174:ASP:OD2	1:A:174:ASP:N	2.52	0.42
1:A:286:LYS:HE3	1:A:822:LYS:HZ1	1.85	0.42
1:A:713:CYS:SG	1:A:768:LEU:CG	3.07	0.42
1:A:1052:LEU:HD21	1:A:1054:LEU:HD21	2.01	0.42
1:A:1174:GLY:O	1:A:1177:LYS:HB2	2.19	0.42
1:A:1228:HIS:O	1:A:1230:LEU:HD23	2.19	0.42
1:B:141:HIS:CE1	1:B:924:TYR:HB2	2.54	0.42
1:B:202:ILE:C	1:B:204:PHE:H	2.21	0.42
1:B:278:GLU:O	1:B:282:ARG:CZ	2.67	0.42
1:B:291:ALA:O	1:B:295:MET:SD	2.77	0.42
1:B:334:VAL:HG13	1:B:335:LEU:N	2.35	0.42
1:B:359:TYR:HA	1:B:362:PHE:HB3	2.01	0.42
1:B:696:ILE:O	1:B:700:ASN:CB	2.67	0.42
1:B:705:PRO:HG2	1:B:706:TYR:H	1.83	0.42
1:B:731:VAL:HG22	1:B:750:LEU:CB	2.48	0.42
1:B:922:ILE:CB	1:B:923:PRO:HD3	2.48	0.42
1:B:1006:ARG:O	1:B:1009:GLU:O	2.37	0.42
1:B:1143:ARG:HG2	1:B:1143:ARG:HH11	1.84	0.42
1:B:1153:PHE:CZ	1:B:1176:GLN:CG	3.01	0.42
1:A:114:TYR:CD2	1:A:946:TYR:CE2	3.05	0.42
1:A:295:MET:HE1	1:A:298:ALA:HB2	2.01	0.42
1:A:372:ASP:OD2	1:A:372:ASP:C	2.57	0.42
1:A:397:TYR:HD2	1:A:397:TYR:HA	1.75	0.42
1:A:534:ARG:O	1:A:535:ILE:C	2.58	0.42
1:A:797:VAL:C	1:A:799:TRP:N	2.71	0.42
1:A:877:GLY:O	1:A:881:LYS:HG2	2.19	0.42
1:A:959:LEU:O	1:A:966:THR:OG1	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1101:ASN:OD1	1:A:1101:ASN:C	2.58	0.42
1:A:1109:LEU:CG	1:A:1109:LEU:O	2.67	0.42
1:B:65:PRO:O	1:B:68:MET:HB2	2.19	0.42
1:B:142:LYS:O	1:B:143:ILE:C	2.58	0.42
1:B:201:ILE:O	1:B:205:THR:CB	2.58	0.42
1:B:371:ILE:HD13	1:B:374:PHE:HD2	1.83	0.42
1:B:372:ASP:OD2	1:B:372:ASP:C	2.58	0.42
1:B:429:LYS:CD	1:B:430:SER:H	2.28	0.42
1:B:437:GLN:C	1:B:439:LEU:H	2.22	0.42
1:B:455:ARG:H	1:B:455:ARG:HG3	1.67	0.42
1:B:489:GLU:H	1:B:489:GLU:CD	2.21	0.42
1:B:560:GLU:OE2	1:B:561:SER:N	2.52	0.42
1:B:731:VAL:HA	1:B:750:LEU:HD13	2.01	0.42
1:B:962:GLN:O	1:B:963:GLN:CB	2.67	0.42
1:B:1043:ARG:O	1:B:1046:ILE:N	2.52	0.42
1:B:1104:TRP:HA	1:B:1107:ALA:HB2	2.01	0.42
1:B:1193:LEU:HB3	1:B:1195:LEU:HD11	2.01	0.42
1:A:156:ILE:HD13	1:A:372:ASP:OD1	2.18	0.42
1:A:158:TRP:CZ2	1:A:900:PHE:CA	3.02	0.42
1:A:198:GLY:C	1:A:200:PHE:H	2.23	0.42
1:A:295:MET:O	1:A:296:GLY:C	2.57	0.42
1:A:307:ALA:O	1:A:310:PHE:HB3	2.19	0.42
1:A:384:ILE:HG23	1:A:546:LYS:CE	2.41	0.42
1:A:560:GLU:OE2	1:A:560:GLU:C	2.57	0.42
1:A:581:ILE:HD13	1:A:582:ALA:N	2.34	0.42
1:A:607:ASN:CG	1:A:608:HIS:N	2.72	0.42
1:A:718:GLY:HA2	1:A:833:PHE:HE1	1.83	0.42
1:A:721:GLN:O	1:A:722:PRO:C	2.55	0.42
1:A:770:GLY:HA2	1:A:773:PHE:CE2	2.54	0.42
1:A:870:VAL:HG13	1:A:871:GLU:N	2.34	0.42
1:A:922:ILE:HD13	1:A:922:ILE:HA	1.91	0.42
1:A:1062:LEU:HB3	1:A:1224:ILE:HG23	2.00	0.42
1:B:82:GLY:O	1:B:85:SER:HB2	2.19	0.42
1:B:88:SER:C	1:B:90:ASN:N	2.72	0.42
1:B:158:TRP:HA	1:B:162:HIS:HD2	1.84	0.42
1:B:267:LYS:CA	1:B:790:LYS:HE2	2.47	0.42
1:B:368:LYS:O	1:B:369:PRO:C	2.56	0.42
1:B:419:VAL:HG13	1:B:579:ILE:HG12	2.00	0.42
1:B:511:LYS:O	1:B:512:LEU:C	2.57	0.42
1:B:570:ASP:C	1:B:572:ALA:H	2.22	0.42
1:B:760:ILE:N	1:B:760:ILE:CD1	2.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:855:LEU:HA	1:B:858:LEU:HD21	2.01	0.42
1:B:877:GLY:O	1:B:881:LYS:HG2	2.20	0.42
1:B:1037:VAL:CG2	1:B:1037:VAL:O	2.66	0.42
1:B:1061:THR:HG23	1:B:1225:VAL:HG12	2.00	0.42
1:B:1182:ILE:O	1:B:1183:ALA:O	2.37	0.42
1:B:1217:ALA:O	1:B:1221:ARG:HD3	2.19	0.42
1:B:1230:LEU:O	1:B:1233:ILE:HG22	2.19	0.42
1:A:448:SER:HA	1:A:453:ASP:HA	2.02	0.42
1:A:574:GLU:OE1	1:A:574:GLU:HA	2.19	0.42
1:A:861:VAL:O	1:A:862:PRO:C	2.56	0.42
1:B:197:PHE:O	1:B:201:ILE:N	2.52	0.42
1:B:210:LEU:O	1:B:213:VAL:N	2.53	0.42
1:B:249:VAL:O	1:B:249:VAL:HG12	2.19	0.42
1:B:290:THR:HA	1:B:293:ILE:CG1	2.50	0.42
1:B:355:ARG:O	1:B:356:GLY:C	2.58	0.42
1:B:359:TYR:CA	1:B:362:PHE:HB3	2.50	0.42
1:B:365:ILE:O	1:B:367:ASN:OD1	2.37	0.42
1:B:484:ILE:HG12	1:B:496:ILE:HG23	2.01	0.42
1:B:500:VAL:HG21	1:B:516:PHE:HZ	1.84	0.42
1:B:548:LEU:C	1:B:549:LEU:HD12	2.40	0.42
1:B:727:ILE:HG23	1:B:728:PHE:N	2.33	0.42
1:B:856:LEU:O	1:B:859:ALA:HB3	2.19	0.42
1:B:965:MET:HA	1:B:965:MET:CE	2.50	0.42
1:B:1078:LEU:CD2	1:B:1085:PRO:HD3	2.49	0.42
1:A:87:ASN:O	1:A:88:SER:C	2.57	0.42
1:A:143:ILE:O	1:A:144:ARG:C	2.58	0.42
1:A:207:GLY:O	1:A:208:TRP:O	2.38	0.42
1:A:286:LYS:HE3	1:A:822:LYS:NZ	2.35	0.42
1:A:409:LEU:HD22	1:A:409:LEU:C	2.37	0.42
1:A:697:LEU:C	1:A:697:LEU:CD1	2.87	0.42
1:A:842:GLY:HA2	1:A:979:PHE:CE2	2.54	0.42
1:A:912:PHE:HD2	1:A:912:PHE:HA	1.71	0.42
1:B:498:LYS:CE	1:B:502:GLU:HB2	2.50	0.42
1:B:508:PHE:CD1	1:B:509:ILE:N	2.87	0.42
1:B:615:LYS:HA	1:B:619:PHE:CD2	2.55	0.42
1:B:765:THR:OG1	1:B:769:GLN:NE2	2.49	0.42
1:B:833:PHE:O	1:B:834:GLN:C	2.57	0.42
1:B:850:GLY:O	1:B:851:TRP:HD1	2.02	0.42
1:B:1003:HIS:O	1:B:1007:ILE:HD13	2.20	0.42
1:B:1138:TYR:O	1:B:1140:GLU:N	2.52	0.42
1:B:1150:ILE:HB	1:B:1179:ARG:CB	2.48	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1250:HIS:ND1	1:B:1250:HIS:C	2.73	0.42
1:A:69:LEU:HA	1:A:329:THR:HG23	2.00	0.42
1:A:163:ASP:O	1:A:164:VAL:HB	2.20	0.42
1:A:243:TYR:C	1:A:243:TYR:CD2	2.93	0.42
1:A:380:LYS:HE3	1:A:461:TYR:CD2	2.55	0.42
1:A:779:ILE:CG1	1:A:780:LEU:N	2.66	0.42
1:A:1014:ILE:HG22	1:A:1102:VAL:CG1	2.38	0.42
1:A:1020:GLN:HG2	1:A:1100:LEU:HD11	2.01	0.42
1:B:183:GLY:O	1:B:186:ILE:HG23	2.20	0.42
1:B:209:LYS:CA	1:B:212:LEU:HB3	2.49	0.42
1:B:217:ILE:CG2	1:B:309:ALA:HB1	2.49	0.42
1:B:293:ILE:O	1:B:295:MET:N	2.53	0.42
1:B:603:VAL:HG21	1:B:617:ILE:HG13	2.02	0.42
1:B:696:ILE:O	1:B:700:ASN:N	2.52	0.42
1:B:713:CYS:SG	1:B:768:LEU:HG	2.59	0.42
1:B:768:LEU:CD1	1:B:769:GLN:N	2.83	0.42
1:B:839:LEU:O	1:B:842:GLY:N	2.51	0.42
1:A:58:ILE:HG13	1:A:193:MET:HG3	2.01	0.42
1:A:83:ASN:O	1:A:86:LYS:HB3	2.20	0.42
1:A:227:ILE:CG2	1:A:231:ILE:HD11	2.49	0.42
1:A:286:LYS:HD2	1:A:289:ILE:HG13	2.02	0.42
1:A:311:TRP:O	1:A:314:THR:HB	2.20	0.42
1:A:450:ASP:OD2	1:A:451:GLY:N	2.53	0.42
1:A:492:THR:H	1:A:495:GLU:CD	2.23	0.42
1:A:496:ILE:O	1:A:497:GLU:C	2.57	0.42
1:A:523:ARG:C	1:A:525:ALA:H	2.22	0.42
1:A:585:LEU:HD12	1:A:618:TYR:CE1	2.54	0.42
1:A:864:ILE:O	1:A:867:ALA:HB3	2.20	0.42
1:A:925:ARG:HB3	1:B:514:HIS:CE1	2.55	0.42
1:A:929:LYS:O	1:A:932:HIS:HB3	2.20	0.42
1:A:1031:VAL:O	1:A:1055:GLU:HA	2.20	0.42
1:A:1178:GLN:OE1	1:A:1178:GLN:HA	2.19	0.42
1:A:1215:ASP:O	1:A:1218:ARG:HD3	2.19	0.42
1:B:243:TYR:C	1:B:243:TYR:CD2	2.93	0.42
1:B:270:LEU:HD11	1:B:790:LYS:HE2	2.02	0.42
1:B:367:ASN:HB2	1:B:369:PRO:HD3	2.02	0.42
1:B:711:ILE:O	1:B:711:ILE:CG1	2.67	0.42
1:B:739:GLY:HA2	1:B:740:PRO:HD2	1.82	0.42
1:B:913:GLU:O	1:B:916:TYR:HB2	2.20	0.42
1:B:1144:ALA:O	1:B:1146:LYS:N	2.53	0.42
1:A:59:ILE:CG1	1:A:60:HIS:N	2.81	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:VAL:O	1:A:454:ILE:HG22	2.19	0.42
1:A:790:LYS:C	1:A:794:ARG:HH21	2.24	0.42
1:A:900:PHE:C	1:A:902:THR:HG22	2.40	0.42
1:A:904:VAL:CG1	1:A:905:SER:N	2.82	0.42
1:A:943:ALA:HB1	1:A:947:PHE:HE1	1.84	0.42
1:A:1123:ILE:HD12	1:A:1123:ILE:C	2.38	0.42
1:A:1265:SER:HA	1:A:1268:SER:HG	1.80	0.42
1:B:206:ARG:C	1:B:211:THR:HB	2.39	0.42
1:B:245:LYS:HA	1:B:245:LYS:NZ	2.35	0.42
1:B:431:THR:O	1:B:432:THR:C	2.55	0.42
1:B:584:ARG:C	1:B:586:SER:N	2.73	0.42
1:B:815:ALA:O	1:B:816:ASN:C	2.58	0.42
1:B:899:ASN:OD1	1:B:901:ARG:NH2	2.53	0.42
1:B:909:GLU:HB3	1:B:910:GLN:H	1.51	0.42
1:B:995:ALA:O	1:B:998:THR:N	2.53	0.42
1:B:1010:LYS:O	1:B:1011:THR:CB	2.67	0.42
1:B:1038:PHE:CD2	1:B:1049:LEU:HD23	2.51	0.42
1:B:1091:PHE:HE1	1:B:1096:GLU:CB	2.30	0.42
1:B:1143:ARG:CZ	1:B:1143:ARG:HB2	2.50	0.42
1:B:1203:ASP:OD2	1:B:1203:ASP:C	2.58	0.42
1:A:561:SER:C	1:A:563:ALA:N	2.72	0.42
1:A:935:GLY:O	1:A:936:ILE:C	2.58	0.42
1:A:954:ARG:HB3	1:A:954:ARG:CZ	2.49	0.42
1:A:1072:LYS:CB	1:A:1226:ILE:HD13	2.42	0.42
1:A:1076:VAL:O	1:A:1077:GLN:C	2.59	0.42
1:A:1106:ARG:O	1:A:1109:LEU:CD2	2.65	0.42
1:B:275:ASN:OD1	1:B:782:LYS:HB3	2.20	0.42
1:B:405:ILE:CD1	1:B:405:ILE:N	2.73	0.42
1:B:709:VAL:O	1:B:712:PHE:CB	2.68	0.42
1:B:724:PHE:HD1	1:B:754:LEU:CD2	2.32	0.42
1:B:832:ILE:HG22	1:B:833:PHE:N	2.35	0.42
1:B:900:PHE:CD1	1:B:900:PHE:O	2.73	0.42
1:B:1064:LEU:HD22	1:B:1064:LEU:HA	1.92	0.42
1:B:1104:TRP:O	1:B:1107:ALA:HB3	2.20	0.42
1:B:1131:ASP:HB3	1:B:1188:ARG:HE	1.79	0.42
1:B:1175:GLY:CA	1:B:1202:LEU:HD11	2.50	0.42
1:A:58:ILE:HG22	1:A:59:ILE:N	2.34	0.41
1:A:88:SER:O	1:A:90:ASN:N	2.53	0.41
1:A:151:ILE:C	1:A:153:ASN:H	2.23	0.41
1:A:188:MET:HG3	1:A:348:ILE:HG12	2.02	0.41
1:A:295:MET:O	1:A:298:ALA:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:324:ILE:C	1:A:326:GLN:N	2.71	0.41
1:A:359:TYR:HA	1:A:362:PHE:HB3	2.02	0.41
1:A:473:PRO:HG2	1:A:473:PRO:O	2.20	0.41
1:A:498:LYS:NZ	1:A:502:GLU:CD	2.72	0.41
1:A:506:TYR:HA	1:A:509:ILE:CG1	2.49	0.41
1:A:594:ILE:HG22	1:A:595:ALA:N	2.35	0.41
1:A:961:THR:O	1:A:961:THR:HG22	2.19	0.41
1:A:992:PRO:HG2	1:A:997:ALA:HB2	2.01	0.41
1:A:1077:GLN:O	1:A:1080:GLU:HB2	2.19	0.41
1:A:1099:GLN:O	1:A:1099:GLN:CD	2.58	0.41
1:B:278:GLU:O	1:B:279:GLU:C	2.56	0.41
1:B:286:LYS:HD2	1:B:289:ILE:HG13	2.01	0.41
1:B:386:GLY:HA3	1:B:450:ASP:CA	2.44	0.41
1:B:504:ASN:ND2	1:B:534:ARG:HD3	2.35	0.41
1:B:513:PRO:O	1:B:518:THR:OG1	2.37	0.41
1:B:833:PHE:CD1	1:B:833:PHE:C	2.92	0.41
1:B:957:ALA:O	1:B:958:TYR:C	2.58	0.41
1:B:1165:VAL:HG23	1:B:1169:GLY:N	2.35	0.41
1:A:103:LEU:O	1:A:107:MET:HB2	2.20	0.41
1:A:195:THR:HB	1:A:340:SER:HB2	2.00	0.41
1:A:236:THR:HA	1:A:288:ALA:HB1	2.01	0.41
1:A:248:ALA:C	1:A:250:ALA:N	2.74	0.41
1:A:433:VAL:CG1	1:A:549:LEU:HD23	2.44	0.41
1:A:460:ARG:O	1:A:464:GLU:HG3	2.21	0.41
1:A:501:LYS:HG3	1:A:506:TYR:CB	2.50	0.41
1:A:596:GLY:O	1:A:601:VAL:O	2.37	0.41
1:A:912:PHE:O	1:A:913:GLU:C	2.57	0.41
1:A:955:PHE:O	1:A:956:GLY:C	2.57	0.41
1:A:1090:VAL:C	1:A:1091:PHE:CD1	2.92	0.41
1:B:147:PHE:HA	1:B:150:ALA:HB3	2.01	0.41
1:B:165:GLY:O	1:B:166:GLU:C	2.58	0.41
1:B:282:ARG:C	1:B:286:LYS:HB2	2.37	0.41
1:B:287:LYS:HA	1:B:290:THR:HG1	1.86	0.41
1:B:288:ALA:O	1:B:292:ASN:N	2.52	0.41
1:B:307:ALA:O	1:B:310:PHE:HB3	2.19	0.41
1:B:310:PHE:HB3	1:B:311:TRP:H	1.62	0.41
1:B:370:SER:OG	1:B:371:ILE:N	2.52	0.41
1:B:432:THR:OG1	1:B:433:VAL:N	2.53	0.41
1:B:461:TYR:O	1:B:462:LEU:C	2.56	0.41
1:B:543:ARG:HG2	1:B:543:ARG:NH1	2.30	0.41
1:B:800:PHE:CD1	1:B:800:PHE:N	2.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:908:ARG:O	1:B:911:LYS:N	2.53	0.41
1:B:929:LYS:O	1:B:932:HIS:HB3	2.20	0.41
1:B:946:TYR:O	1:B:947:PHE:C	2.59	0.41
1:B:1079:LEU:HD23	1:B:1194:LEU:HD11	2.02	0.41
1:A:106:GLU:CD	1:A:109:THR:HB	2.40	0.41
1:A:239:GLU:C	1:A:285:ILE:HG12	2.41	0.41
1:A:291:ALA:O	1:A:295:MET:CG	2.69	0.41
1:A:498:LYS:CE	1:A:502:GLU:HB2	2.50	0.41
1:A:694:TRP:HA	1:A:697:LEU:HD23	2.02	0.41
1:A:711:ILE:HD12	1:A:832:ILE:HD13	1.96	0.41
1:A:731:VAL:HG22	1:A:750:LEU:HB2	2.03	0.41
1:A:829:LEU:C	1:A:831:VAL:H	2.24	0.41
1:A:856:LEU:CD2	1:A:955:PHE:HB3	2.50	0.41
1:A:914:THR:O	1:A:917:ALA:N	2.52	0.41
1:A:939:SER:OG	1:A:940:PHE:N	2.50	0.41
1:A:956:GLY:O	1:A:958:TYR:N	2.54	0.41
1:A:993:ASP:N	1:A:996:LYS:HZ3	2.18	0.41
1:A:1113:SER:OG	1:A:1114:GLN:N	2.53	0.41
1:A:1148:ALA:HB3	1:A:1150:ILE:HG22	2.01	0.41
1:A:1243:GLN:HA	1:A:1243:GLN:OE1	2.20	0.41
1:B:118:GLY:CA	1:B:946:TYR:CG	3.03	0.41
1:B:162:HIS:C	1:B:164:VAL:N	2.73	0.41
1:B:237:ASP:O	1:B:238:LYS:C	2.58	0.41
1:B:311:TRP:HA	1:B:311:TRP:HE3	1.85	0.41
1:B:387:ASN:ND2	1:B:415:SER:H	2.18	0.41
1:B:478:THR:HG21	1:B:482:GLU:HB3	2.03	0.41
1:B:897:ILE:HD12	1:B:897:ILE:C	2.41	0.41
1:B:918:GLN:O	1:B:921:GLN:CB	2.64	0.41
1:B:1213:ALA:C	1:B:1215:ASP:N	2.74	0.41
1:A:74:MET:SD	1:A:110:TYR:HE1	2.43	0.41
1:A:114:TYR:HD2	1:A:946:TYR:CD2	2.38	0.41
1:A:333:SER:O	1:A:336:ILE:HB	2.21	0.41
1:A:447:VAL:HG13	1:A:454:ILE:HG21	2.02	0.41
1:A:475:LEU:HD23	1:A:539:ARG:HH12	1.85	0.41
1:A:541:LEU:HD13	1:A:541:LEU:O	2.21	0.41
1:A:554:THR:O	1:A:555:SER:O	2.38	0.41
1:A:561:SER:O	1:A:564:VAL:N	2.54	0.41
1:A:817:ASP:HA	1:A:820:GLN:HG3	2.02	0.41
1:A:910:GLN:HA	1:A:910:GLN:NE2	2.33	0.41
1:A:975:SER:C	1:A:978:VAL:HG12	2.41	0.41
1:A:1208:LYS:O	1:A:1209:VAL:C	2.58	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:VAL:CG1	1:B:176:SER:H	2.33	0.41
1:B:293:ILE:HD11	1:B:773:PHE:HZ	1.85	0.41
1:B:573:ARG:HB3	1:B:578:THR:HG21	2.01	0.41
1:B:716:ILE:CG1	1:B:717:ASN:N	2.83	0.41
1:B:817:ASP:HA	1:B:820:GLN:CG	2.50	0.41
1:B:861:VAL:HB	1:B:862:PRO:CD	2.51	0.41
1:B:1040:TYR:CD1	1:B:1040:TYR:N	2.89	0.41
1:B:1150:ILE:C	1:B:1154:ILE:HD13	2.40	0.41
1:A:42:ALA:HB1	1:A:142:LYS:HE3	2.03	0.41
1:A:203:GLY:O	1:A:215:LEU:CD2	2.61	0.41
1:A:238:LYS:HZ1	1:A:242:ALA:HB2	1.84	0.41
1:A:252:GLU:N	1:A:252:GLU:CD	2.74	0.41
1:A:308:LEU:O	1:A:310:PHE:N	2.54	0.41
1:A:326:GLN:C	1:A:328:LEU:N	2.69	0.41
1:A:365:ILE:O	1:A:366:ASP:C	2.58	0.41
1:A:405:ILE:HG21	1:A:428:GLY:HA2	2.00	0.41
1:A:458:ASN:ND2	1:A:459:VAL:H	2.19	0.41
1:A:709:VAL:CG2	1:A:772:THR:HG21	2.50	0.41
1:A:788:VAL:HG21	1:A:1004:ILE:HG12	2.03	0.41
1:A:894:THR:HA	1:A:897:ILE:HG13	2.01	0.41
1:A:959:LEU:HD23	1:A:961:THR:H	1.86	0.41
1:A:1038:PHE:O	1:A:1047:PRO:CB	2.55	0.41
1:A:1092:LEU:HD23	1:A:1092:LEU:C	2.40	0.41
1:A:1109:LEU:O	1:A:1109:LEU:HG	2.20	0.41
1:A:1199:THR:HG22	1:A:1202:LEU:HD22	2.01	0.41
1:B:188:MET:HE1	1:B:348:ILE:HD11	2.02	0.41
1:B:248:ALA:C	1:B:250:ALA:N	2.74	0.41
1:B:358:ALA:O	1:B:362:PHE:N	2.53	0.41
1:B:730:LYS:O	1:B:734:VAL:HG12	2.19	0.41
1:B:949:TYR:O	1:B:950:ALA:C	2.58	0.41
1:B:1056:VAL:O	1:B:1057:LYS:O	2.39	0.41
1:B:1092:LEU:HD23	1:B:1092:LEU:C	2.40	0.41
1:A:106:GLU:OE2	1:A:109:THR:CG2	2.69	0.41
1:A:281:LYS:H	1:A:281:LYS:HD2	1.85	0.41
1:A:378:GLY:HA3	1:A:458:ASN:HB2	2.02	0.41
1:A:484:ILE:CG2	1:A:496:ILE:HG13	2.49	0.41
1:A:511:LYS:O	1:A:512:LEU:C	2.57	0.41
1:A:694:TRP:CG	1:A:697:LEU:HD23	2.56	0.41
1:A:800:PHE:CD1	1:A:800:PHE:N	2.86	0.41
1:A:861:VAL:HB	1:A:862:PRO:CD	2.50	0.41
1:B:114:TYR:CD2	1:B:114:TYR:C	2.94	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:151:ILE:HD12	1:B:167:LEU:CD1	2.38	0.41
1:B:214:ILE:HA	1:B:331:PHE:CE2	2.56	0.41
1:B:261:ILE:C	1:B:263:PHE:H	2.22	0.41
1:B:295:MET:O	1:B:298:ALA:HB3	2.21	0.41
1:B:342:GLY:O	1:B:346:PRO:HD3	2.20	0.41
1:B:381:PRO:HG2	1:B:461:TYR:CD1	2.56	0.41
1:B:449:ILE:O	1:B:451:GLY:N	2.54	0.41
1:B:484:ILE:HG23	1:B:542:VAL:HG21	2.03	0.41
1:B:504:ASN:ND2	1:B:564:VAL:HG12	2.36	0.41
1:B:721:GLN:HG2	1:B:982:MET:CE	2.40	0.41
1:B:857:LEU:CD1	1:B:976:ALA:CB	2.81	0.41
1:B:1097:ILE:CD1	1:B:1100:LEU:CD2	2.95	0.41
1:A:153:ASN:C	1:A:155:GLU:N	2.73	0.41
1:A:278:GLU:O	1:A:282:ARG:CZ	2.69	0.41
1:A:393:ILE:HD13	1:A:393:ILE:N	2.35	0.41
1:A:447:VAL:CG2	1:A:448:SER:N	2.83	0.41
1:A:498:LYS:HZ2	1:A:502:GLU:CG	2.34	0.41
1:A:519:LEU:HD22	1:A:526:GLN:HE22	1.85	0.41
1:A:521:GLY:CA	1:A:526:GLN:OE1	2.66	0.41
1:A:576:ARG:HH11	1:A:576:ARG:HG3	1.85	0.41
1:A:584:ARG:C	1:A:586:SER:N	2.74	0.41
1:A:732:VAL:CG2	1:A:733:GLY:N	2.84	0.41
1:A:820:GLN:HG3	1:A:1000:SER:CB	2.50	0.41
1:A:1196:ASP:C	1:A:1198:ALA:N	2.74	0.41
1:A:1253:HIS:O	1:A:1256:LEU:HB2	2.20	0.41
1:B:54:THR:O	1:B:55:LEU:C	2.58	0.41
1:B:95:ASP:O	1:B:99:MET:SD	2.78	0.41
1:B:308:LEU:O	1:B:309:ALA:C	2.58	0.41
1:B:326:GLN:C	1:B:328:LEU:N	2.66	0.41
1:B:358:ALA:O	1:B:359:TYR:C	2.59	0.41
1:B:425:SER:OG	1:B:599:GLY:HA3	2.21	0.41
1:B:513:PRO:O	1:B:515:GLN:N	2.54	0.41
1:B:727:ILE:HD13	1:B:727:ILE:O	2.21	0.41
1:B:729:SER:OG	1:B:972:LEU:HD11	2.21	0.41
1:B:749:ASN:O	1:B:750:LEU:C	2.59	0.41
1:B:1109:LEU:O	1:B:1109:LEU:HG	2.20	0.41
1:B:1208:LYS:HZ3	1:B:1209:VAL:HA	1.84	0.41
1:A:467:GLY:CA	1:A:545:PRO:HG3	2.45	0.41
1:A:504:ASN:OD1	1:A:568:ALA:HB2	2.19	0.41
1:A:520:VAL:O	1:A:522:GLU:N	2.54	0.41
1:A:760:ILE:N	1:A:760:ILE:CD1	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:843:ILE:O	1:A:846:SER:CB	2.59	0.41
1:A:927:ALA:HA	1:A:930:LYS:HE3	2.02	0.41
1:B:43:GLY:O	1:B:47:ARG:HB2	2.21	0.41
1:B:286:LYS:CE	1:B:778:GLU:HG2	2.47	0.41
1:B:287:LYS:HA	1:B:290:THR:OG1	2.19	0.41
1:B:327:VAL:O	1:B:328:LEU:O	2.38	0.41
1:B:426:GLY:O	1:B:427:CYS:C	2.59	0.41
1:B:471:GLN:OE1	1:B:471:GLN:N	2.54	0.41
1:B:545:PRO:HG2	1:B:576:ARG:HD3	2.03	0.41
1:B:694:TRP:O	1:B:697:LEU:HB3	2.21	0.41
1:B:779:ILE:HA	1:B:782:LYS:HE3	2.02	0.41
1:B:907:THR:C	1:B:908:ARG:HE	2.24	0.41
1:B:959:LEU:O	1:B:966:THR:OG1	2.38	0.41
1:B:1005:ILE:CA	1:B:1008:ILE:HG22	2.49	0.41
1:B:1129:TYR:CD2	1:B:1184:ARG:HG3	2.56	0.41
1:B:1214:LEU:HA	1:B:1217:ALA:HB3	2.03	0.41
1:B:1215:ASP:C	1:B:1217:ALA:N	2.74	0.41
1:A:81:VAL:HG13	1:A:99:MET:CE	2.51	0.41
1:A:187:GLY:O	1:A:190:PHE:HB3	2.21	0.41
1:A:214:ILE:HG21	1:A:334:VAL:HB	2.03	0.41
1:A:267:LYS:HG2	1:A:793:LEU:HG	2.03	0.41
1:A:305:SER:O	1:A:306:TYR:C	2.59	0.41
1:A:311:TRP:HA	1:A:311:TRP:HE3	1.86	0.41
1:A:429:LYS:CB	1:A:581:ILE:HG13	2.44	0.41
1:A:607:ASN:O	1:A:610:GLU:HB2	2.21	0.41
1:A:716:ILE:HG13	1:A:717:ASN:H	1.86	0.41
1:A:760:ILE:O	1:A:762:SER:N	2.54	0.41
1:A:857:LEU:HD11	1:A:977:ILE:N	2.34	0.41
1:A:867:ALA:HA	1:A:870:VAL:CG1	2.50	0.41
1:A:902:THR:OG1	1:A:908:ARG:HD3	2.21	0.41
1:A:914:THR:O	1:A:917:ALA:HB3	2.21	0.41
1:A:970:VAL:HA	1:A:973:VAL:CG2	2.51	0.41
1:A:1100:LEU:HD23	1:A:1105:LEU:HD13	2.02	0.41
1:A:1138:TYR:C	1:A:1140:GLU:N	2.74	0.41
1:B:35:VAL:O	1:B:39:PHE:CB	2.46	0.41
1:B:43:GLY:HA3	1:B:46:ASP:HB2	2.01	0.41
1:B:321:GLU:C	1:B:323:SER:N	2.73	0.41
1:B:425:SER:OG	1:B:598:ASP:C	2.59	0.41
1:B:468:VAL:HG22	1:B:549:LEU:HD13	2.02	0.41
1:B:709:VAL:O	1:B:712:PHE:HB3	2.21	0.41
1:B:713:CYS:SG	1:B:768:LEU:CG	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:728:PHE:O	1:B:729:SER:C	2.59	0.41
1:B:883:LYS:O	1:B:887:GLU:HB3	2.21	0.41
1:B:935:GLY:O	1:B:936:ILE:C	2.58	0.41
1:B:1037:VAL:HG22	1:B:1087:ALA:CB	2.43	0.41
1:B:1038:PHE:HA	1:B:1086:MET:SD	2.61	0.41
1:B:1080:GLU:O	1:B:1081:ARG:C	2.59	0.41
1:B:1154:ILE:N	1:B:1154:ILE:HD12	2.36	0.41
1:A:151:ILE:HD12	1:A:167:LEU:HD21	2.02	0.41
1:A:174:ASP:OD1	1:A:361:VAL:HG21	2.21	0.41
1:A:210:LEU:C	1:A:210:LEU:HD13	2.42	0.41
1:A:214:ILE:HG12	1:A:331:PHE:CD1	2.56	0.41
1:A:217:ILE:CD1	1:A:218:SER:N	2.68	0.41
1:A:285:ILE:O	1:A:289:ILE:N	2.54	0.41
1:A:617:ILE:O	1:A:621:LEU:HD23	2.20	0.41
1:A:709:VAL:CG2	1:A:710:GLY:N	2.84	0.41
1:A:718:GLY:CA	1:A:833:PHE:HE1	2.34	0.41
1:A:909:GLU:O	1:A:910:GLN:C	2.59	0.41
1:A:987:VAL:CG1	1:A:988:SER:N	2.82	0.41
1:A:1111:ILE:O	1:A:1112:VAL:CG2	2.69	0.41
1:A:1129:TYR:CD2	1:A:1184:ARG:HG3	2.55	0.41
1:B:129:VAL:CB	1:B:935:GLY:HA2	2.51	0.41
1:B:295:MET:O	1:B:296:GLY:C	2.56	0.41
1:B:304:ALA:CB	1:B:758:LEU:HB3	2.51	0.41
1:B:431:THR:HA	1:B:434:GLN:OE1	2.21	0.41
1:B:478:THR:CG2	1:B:482:GLU:CB	2.99	0.41
1:B:483:ASN:O	1:B:486:TYR:HB2	2.20	0.41
1:B:498:LYS:HZ1	1:B:502:GLU:HB2	1.86	0.41
1:B:500:VAL:HG12	1:B:505:ALA:HB3	2.02	0.41
1:B:954:ARG:CZ	1:B:954:ARG:HB3	2.51	0.41
1:B:1032:GLN:NE2	1:B:1055:GLU:HB2	2.36	0.41
1:A:68:MET:O	1:A:69:LEU:C	2.57	0.40
1:A:113:TYR:CG	1:A:114:TYR:N	2.89	0.40
1:A:270:LEU:HD23	1:A:270:LEU:N	2.23	0.40
1:A:384:ILE:O	1:A:385:GLN:C	2.58	0.40
1:A:393:ILE:O	1:A:393:ILE:HG12	2.21	0.40
1:A:547:ILE:HA	1:A:577:THR:O	2.21	0.40
1:A:709:VAL:O	1:A:710:GLY:C	2.56	0.40
1:A:907:THR:N	1:A:908:ARG:CZ	2.84	0.40
1:A:1022:LEU:O	1:A:1023:LYS:O	2.38	0.40
1:A:1202:LEU:HG	1:A:1206:SER:CB	2.50	0.40
1:A:1226:ILE:C	1:A:1226:ILE:HD12	2.41	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:211:THR:CA	1:B:214:ILE:HD12	2.48	0.40
1:B:295:MET:CE	1:B:298:ALA:HB2	2.51	0.40
1:B:303:TYR:O	1:B:306:TYR:CB	2.70	0.40
1:B:747:ASN:O	1:B:749:ASN:N	2.54	0.40
1:B:790:LYS:C	1:B:794:ARG:HE	2.21	0.40
1:B:820:GLN:HG3	1:B:1000:SER:CB	2.52	0.40
1:B:967:PHE:N	1:B:967:PHE:CD2	2.90	0.40
1:B:987:VAL:CG1	1:B:988:SER:N	2.84	0.40
1:B:1020:GLN:H	1:B:1020:GLN:NE2	2.16	0.40
1:A:210:LEU:O	1:A:213:VAL:HB	2.21	0.40
1:A:295:MET:CE	1:A:298:ALA:HB2	2.51	0.40
1:A:312:TYR:HB3	1:A:313:GLY:H	1.74	0.40
1:A:979:PHE:O	1:A:982:MET:N	2.53	0.40
1:A:1001:ALA:O	1:A:1002:SER:C	2.60	0.40
1:A:1023:LYS:C	1:A:1025:ASN:H	2.25	0.40
1:A:1039:ASN:O	1:A:1040:TYR:C	2.60	0.40
1:A:1165:VAL:HG23	1:A:1169:GLY:N	2.36	0.40
1:A:1221:ARG:HD2	1:A:1221:ARG:N	2.36	0.40
1:B:47:ARG:O	1:B:50:MET:HB3	2.21	0.40
1:B:60:HIS:O	1:B:63:ALA:N	2.48	0.40
1:B:238:LYS:HZ3	1:B:242:ALA:HB2	1.86	0.40
1:B:267:LYS:O	1:B:790:LYS:HE2	2.21	0.40
1:B:498:LYS:HZ1	1:B:502:GLU:CB	2.33	0.40
1:B:512:LEU:HD12	1:B:513:PRO:N	2.36	0.40
1:B:948:SER:O	1:B:949:TYR:C	2.59	0.40
1:B:1126:ASN:HD22	1:B:1126:ASN:HA	1.64	0.40
1:B:1172:LEU:HD23	1:B:1172:LEU:HA	1.85	0.40
1:A:74:MET:HG3	1:A:75:THR:N	2.36	0.40
1:A:310:PHE:HB3	1:A:311:TRP:H	1.64	0.40
1:A:322:TYR:O	1:A:324:ILE:HG13	2.21	0.40
1:A:327:VAL:O	1:A:328:LEU:C	2.59	0.40
1:A:420:ALA:HB3	1:A:594:ILE:HG13	2.02	0.40
1:A:558:ASP:OD2	1:A:561:SER:HB3	2.22	0.40
1:A:727:ILE:HD12	1:A:754:LEU:CG	2.42	0.40
1:A:898:GLU:O	1:A:901:ARG:NH1	2.55	0.40
1:A:1004:ILE:O	1:A:1004:ILE:CD1	2.63	0.40
1:A:1090:VAL:O	1:A:1096:GLU:HA	2.20	0.40
1:A:1137:SER:O	1:A:1140:GLU:CB	2.70	0.40
1:A:1159:ASP:O	1:A:1160:LYS:C	2.60	0.40
1:B:118:GLY:O	1:B:121:VAL:HG22	2.21	0.40
1:B:238:LYS:HZ1	1:B:242:ALA:HB2	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:847:LEU:C	1:B:849:TYR:N	2.74	0.40
1:B:1021:GLY:C	1:B:1026:MET:SD	3.00	0.40
1:B:1066:GLY:N	1:B:1072:LYS:HE2	2.34	0.40
1:B:1132:ASN:O	1:B:1134:ARG:N	2.54	0.40
1:A:70:ILE:HG22	1:A:74:MET:CE	2.52	0.40
1:A:96:LYS:CE	1:A:962:GLN:NE2	2.74	0.40
1:A:147:PHE:O	1:A:150:ALA:HB3	2.22	0.40
1:A:255:ALA:O	1:A:256:ALA:HB3	2.20	0.40
1:A:308:LEU:C	1:A:310:PHE:N	2.74	0.40
1:A:328:LEU:O	1:A:329:THR:C	2.60	0.40
1:A:362:PHE:C	1:A:364:ILE:N	2.68	0.40
1:A:417:GLN:C	1:A:418:THR:CG2	2.89	0.40
1:A:439:LEU:HD22	1:A:439:LEU:HA	1.88	0.40
1:A:472:GLU:C	1:A:472:GLU:OE1	2.60	0.40
1:A:498:LYS:HE2	1:A:498:LYS:O	2.21	0.40
1:A:500:VAL:O	1:A:501:LYS:C	2.58	0.40
1:A:509:ILE:HA	1:A:512:LEU:HD23	2.03	0.40
1:A:730:LYS:O	1:A:731:VAL:C	2.59	0.40
1:A:908:ARG:O	1:A:911:LYS:CA	2.69	0.40
1:A:932:HIS:ND1	1:A:932:HIS:C	2.75	0.40
1:A:955:PHE:O	1:A:958:TYR:HB2	2.21	0.40
1:A:1012:PRO:C	1:A:1014:ILE:H	2.25	0.40
1:A:1130:GLY:C	1:A:1132:ASN:N	2.74	0.40
1:A:1157:LEU:O	1:A:1158:PRO:C	2.60	0.40
1:B:261:ILE:HD13	1:B:261:ILE:HA	1.92	0.40
1:B:432:THR:O	1:B:433:VAL:C	2.59	0.40
1:B:474:VAL:HG23	1:B:523:ARG:CZ	2.51	0.40
1:B:724:PHE:CD1	1:B:754:LEU:CD2	3.03	0.40
1:B:848:ILE:O	1:B:848:ILE:CD1	2.65	0.40
1:B:914:THR:O	1:B:917:ALA:HB3	2.21	0.40
1:B:1037:VAL:HG22	1:B:1087:ALA:N	2.37	0.40
1:B:1121:CYS:HB3	1:B:1125:GLU:CB	2.44	0.40
1:B:1159:ASP:O	1:B:1162:ASN:HB2	2.22	0.40
1:B:1267:VAL:HG12	1:B:1270:GLN:OE1	2.21	0.40
1:A:36:LEU:CD1	1:A:37:THR:N	2.84	0.40
1:A:708:VAL:HA	1:A:711:ILE:HG22	2.04	0.40
1:A:812:THR:O	1:A:813:ARG:C	2.59	0.40
1:A:910:GLN:C	1:A:912:PHE:N	2.74	0.40
1:A:954:ARG:CG	1:A:954:ARG:NH1	2.84	0.40
1:A:990:PHE:HB3	1:A:991:ALA:H	1.74	0.40
1:A:1228:HIS:O	1:A:1230:LEU:CD2	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:161:VAL:O	1:B:162:HIS:O	2.40	0.40
1:B:260:VAL:HG12	1:B:260:VAL:O	2.21	0.40
1:B:407:LYS:CE	1:B:601:VAL:HA	2.51	0.40
1:B:438:ARG:NH1	1:B:438:ARG:CG	2.74	0.40
1:B:504:ASN:O	1:B:534:ARG:CD	2.70	0.40
1:B:527:LEU:N	1:B:527:LEU:CD2	2.84	0.40
1:B:581:ILE:O	1:B:582:ALA:HB2	2.21	0.40
1:B:615:LYS:HA	1:B:619:PHE:CG	2.55	0.40
1:B:694:TRP:O	1:B:695:ARG:C	2.58	0.40
1:B:751:PHE:CD1	1:B:752:SER:N	2.89	0.40
1:B:922:ILE:HB	1:B:923:PRO:CD	2.51	0.40
1:B:969:ASN:C	1:B:971:LEU:N	2.74	0.40
1:B:1158:PRO:O	1:B:1163:THR:OG1	2.40	0.40
1:B:1208:LYS:O	1:B:1211:GLN:N	2.54	0.40

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

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1099:GLN:CG	1:B:450:ASP:OD1[1_455]	2.03	0.17

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1178/1284 (92%)	678 (58%)	299 (25%)	201 (17%)	0 3
1	B	1178/1284 (92%)	676 (57%)	295 (25%)	207 (18%)	0 2
All	All	2356/2568 (92%)	1354 (58%)	594 (25%)	408 (17%)	0 3

All (408) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	34	SER
1	A	115	THR
1	A	135	ALA
1	A	156	ILE
1	A	164	VAL
1	A	201	ILE
1	A	214	ILE
1	A	216	ALA
1	A	218	SER
1	A	274	ASN
1	A	280	ALA
1	A	308	LEU
1	A	310	PHE
1	A	330	VAL
1	A	358	ALA
1	A	367	ASN
1	A	377	SER
1	A	384	ILE
1	A	385	GLN
1	A	400	ARG
1	A	416	GLY
1	A	471	GLN
1	A	489	GLU
1	A	491	VAL
1	A	514	HIS
1	A	521	GLY
1	A	553	ALA
1	A	555	SER
1	A	598	ASP
1	A	687	ASP
1	A	692	SER
1	A	747	ASN
1	A	757	ILE
1	A	796	ASP
1	A	797	VAL
1	A	798	SER
1	A	804	LYS
1	A	837	ALA
1	A	900	PHE
1	A	909	GLU
1	A	965	MET
1	A	993	ASP
1	A	996	LYS

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Mol	Chain	Res	Type
1	A	1014	ILE
1	A	1017	TYR
1	A	1019	THR
1	A	1020	GLN
1	A	1036	VAL
1	A	1042	THR
1	A	1043	ARG
1	A	1046	ILE
1	A	1057	LYS
1	A	1114	GLN
1	A	1117	ILE
1	A	1120	ASP
1	A	1158	PRO
1	A	1171	GLN
1	A	1198	ALA
1	A	1204	THR
1	A	1244	ASN
1	B	34	SER
1	B	115	THR
1	B	135	ALA
1	B	164	VAL
1	B	201	ILE
1	B	214	ILE
1	B	216	ALA
1	B	218	SER
1	B	274	ASN
1	B	280	ALA
1	B	298	ALA
1	B	308	LEU
1	B	310	PHE
1	B	312	TYR
1	B	322	TYR
1	B	358	ALA
1	B	366	ASP
1	B	367	ASN
1	B	370	SER
1	B	371	ILE
1	B	400	ARG
1	B	416	GLY
1	B	471	GLN
1	B	489	GLU
1	B	491	VAL

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Mol	Chain	Res	Type
1	B	521	GLY
1	B	553	ALA
1	B	555	SER
1	B	574	GLU
1	B	598	ASP
1	B	692	SER
1	B	797	VAL
1	B	798	SER
1	B	804	LYS
1	B	837	ALA
1	B	851	TRP
1	B	900	PHE
1	B	901	ARG
1	B	909	GLU
1	B	958	TYR
1	B	965	MET
1	B	969	ASN
1	B	993	ASP
1	B	994	TYR
1	B	1011	THR
1	B	1012	PRO
1	B	1013	GLU
1	B	1014	ILE
1	B	1015	ASP
1	B	1016	SER
1	B	1021	GLY
1	B	1024	PRO
1	B	1036	VAL
1	B	1042	THR
1	B	1046	ILE
1	B	1057	LYS
1	B	1098	LYS
1	B	1114	GLN
1	B	1117	ILE
1	B	1120	ASP
1	B	1158	PRO
1	B	1171	GLN
1	B	1198	ALA
1	B	1244	ASN
1	A	35	VAL
1	A	42	ALA
1	A	91	MET

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Mol	Chain	Res	Type
1	A	132	TRP
1	A	143	ILE
1	A	152	MET
1	A	199	GLY
1	A	203	GLY
1	A	276	ASN
1	A	282	ARG
1	A	298	ALA
1	A	312	TYR
1	A	328	LEU
1	A	357	ALA
1	A	365	ILE
1	A	366	ASP
1	A	371	ILE
1	A	373	SER
1	A	375	SER
1	A	429	LYS
1	A	515	GLN
1	A	522	GLU
1	A	526	GLN
1	A	589	ARG
1	A	590	ASN
1	A	601	VAL
1	A	603	VAL
1	A	608	HIS
1	A	686	GLU
1	A	700	ASN
1	A	705	PRO
1	A	706	TYR
1	A	734	VAL
1	A	748	SER
1	A	758	LEU
1	A	760	ILE
1	A	761	ILE
1	A	778	GLU
1	A	833	PHE
1	A	839	LEU
1	A	840	GLY
1	A	901	ARG
1	A	908	ARG
1	A	912	PHE
1	A	969	ASN

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Mol	Chain	Res	Type
1	A	1010	LYS
1	A	1012	PRO
1	A	1026	MET
1	A	1093	ASP
1	A	1096	GLU
1	A	1116	PRO
1	A	1130	GLY
1	A	1132	ASN
1	A	1136	VAL
1	A	1138	TYR
1	A	1157	LEU
1	A	1166	GLY
1	A	1170	THR
1	A	1183	ALA
1	A	1184	ARG
1	A	1190	PRO
1	B	42	ALA
1	B	89	THR
1	B	91	MET
1	B	132	TRP
1	B	161	VAL
1	B	162	HIS
1	B	203	GLY
1	B	276	ASN
1	B	282	ARG
1	B	328	LEU
1	B	330	VAL
1	B	357	ALA
1	B	359	TYR
1	B	365	ILE
1	B	372	ASP
1	B	459	VAL
1	B	493	MET
1	B	514	HIS
1	B	515	GLN
1	B	522	GLU
1	B	526	GLN
1	B	573	ARG
1	B	590	ASN
1	B	601	VAL
1	B	603	VAL
1	B	608	HIS

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Mol	Chain	Res	Type
1	B	700	ASN
1	B	705	PRO
1	B	706	TYR
1	B	731	VAL
1	B	734	VAL
1	B	747	ASN
1	B	757	ILE
1	B	758	LEU
1	B	759	GLY
1	B	795	GLN
1	B	796	ASP
1	B	809	ALA
1	B	833	PHE
1	B	839	LEU
1	B	840	GLY
1	B	908	ARG
1	B	912	PHE
1	B	1028	GLU
1	B	1041	PRO
1	B	1070	CYS
1	B	1094	GLY
1	B	1130	GLY
1	B	1132	ASN
1	B	1138	TYR
1	B	1157	LEU
1	B	1166	GLY
1	B	1170	THR
1	B	1183	ALA
1	B	1184	ARG
1	B	1190	PRO
1	B	1230	LEU
1	A	88	SER
1	A	89	THR
1	A	162	HIS
1	A	369	PRO
1	A	425	SER
1	A	493	MET
1	A	707	PHE
1	A	755	PHE
1	A	759	GLY
1	A	795	GLN
1	A	799	TRP

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Mol	Chain	Res	Type
1	A	809	ALA
1	A	835	ASN
1	A	913	GLU
1	A	940	PHE
1	A	948	SER
1	A	952	ALA
1	A	958	TYR
1	A	963	GLN
1	A	1041	PRO
1	A	1059	GLY
1	A	1128	ALA
1	A	1129	TYR
1	A	1137	SER
1	A	1146	LYS
1	A	1207	GLU
1	A	1214	LEU
1	A	1215	ASP
1	A	1262	ILE
1	B	88	SER
1	B	116	GLY
1	B	136	ALA
1	B	152	MET
1	B	209	LYS
1	B	373	SER
1	B	381	PRO
1	B	384	ILE
1	B	385	GLN
1	B	427	CYS
1	B	454	ILE
1	B	589	ARG
1	B	620	LYS
1	B	707	PHE
1	B	748	SER
1	B	755	PHE
1	B	778	GLU
1	B	799	TRP
1	B	911	LYS
1	B	913	GLU
1	B	940	PHE
1	B	948	SER
1	B	949	TYR
1	B	1116	PRO

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Mol	Chain	Res	Type
1	B	1129	TYR
1	B	1136	VAL
1	B	1146	LYS
1	B	1197	GLU
1	B	1204	THR
1	B	1215	ASP
1	B	1262	ILE
1	A	136	ALA
1	A	144	ARG
1	A	155	GLU
1	A	161	VAL
1	A	215	LEU
1	A	359	TYR
1	A	428	GLY
1	A	562	GLU
1	A	731	VAL
1	A	749	ASN
1	A	765	THR
1	A	803	PRO
1	A	852	GLN
1	A	911	LYS
1	A	921	GLN
1	A	937	THR
1	A	1028	GLU
1	A	1070	CYS
1	A	1159	ASP
1	B	35	VAL
1	B	58	ILE
1	B	143	ILE
1	B	208	TRP
1	B	227	ILE
1	B	290	THR
1	B	425	SER
1	B	460	ARG
1	B	513	PRO
1	B	749	ASN
1	B	761	ILE
1	B	803	PRO
1	B	814	LEU
1	B	815	ALA
1	B	921	GLN
1	B	952	ALA

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Mol	Chain	Res	Type
1	B	963	GLN
1	B	1027	LEU
1	B	1093	ASP
1	B	1137	SER
1	B	1203	ASP
1	B	1250	HIS
1	B	1253	HIS
1	A	44	TRP
1	A	45	LEU
1	A	317	VAL
1	A	351	PHE
1	A	620	LYS
1	A	812	THR
1	A	814	LEU
1	A	854	THR
1	A	889	SER
1	A	950	ALA
1	A	1098	LYS
1	A	1127	ILE
1	A	1202	LEU
1	A	1250	HIS
1	B	44	TRP
1	B	299	PHE
1	B	374	PHE
1	B	377	SER
1	B	435	LEU
1	B	545	PRO
1	B	765	THR
1	B	812	THR
1	B	835	ASN
1	B	838	ASN
1	B	1023	LYS
1	B	1043	ARG
1	B	1102	VAL
1	B	1128	ALA
1	B	1202	LEU
1	B	1219	GLU
1	A	58	ILE
1	A	227	ILE
1	A	554	THR
1	A	751	PHE
1	A	764	ILE

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Mol	Chain	Res	Type
1	A	851	TRP
1	A	962	GLN
1	A	1076	VAL
1	A	1197	GLU
1	B	156	ILE
1	B	158	TRP
1	B	462	LEU
1	B	465	ILE
1	B	889	SER
1	B	1059	GLY
1	B	1201	ALA
1	B	1208	LYS
1	A	116	GLY
1	A	217	ILE
1	A	219	PRO
1	A	361	VAL
1	B	137	GLY
1	B	317	VAL
1	B	764	ILE
1	B	361	VAL
1	B	1076	VAL
1	A	405	ILE
1	A	459	VAL
1	A	454	ILE
1	A	991	ALA
1	B	313	GLY
1	B	869	VAL
1	A	198	GLY
1	B	760	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	975/1064 (92%)	775 (80%)	200 (20%)	1 8
1	B	975/1064 (92%)	783 (80%)	192 (20%)	1 9

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	1950/2128 (92%)	1558 (80%)	392 (20%)	1 9

All (392) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	36	LEU
1	A	38	MET
1	A	41	TYR
1	A	55	LEU
1	A	59	ILE
1	A	64	LEU
1	A	76	ASP
1	A	83	ASN
1	A	91	MET
1	A	93	GLU
1	A	99	MET
1	A	100	PHE
1	A	102	LYS
1	A	113	TYR
1	A	131	PHE
1	A	134	LEU
1	A	142	LYS
1	A	147	PHE
1	A	148	PHE
1	A	155	GLU
1	A	156	ILE
1	A	158	TRP
1	A	173	ASP
1	A	185	LYS
1	A	186	ILE
1	A	189	PHE
1	A	190	PHE
1	A	195	THR
1	A	206	ARG
1	A	219	PRO
1	A	228	TRP
1	A	238	LYS
1	A	243	TYR
1	A	245	LYS
1	A	252	GLU
1	A	254	LEU
1	A	261	ILE

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Mol	Chain	Res	Type
1	A	270	LEU
1	A	281	LYS
1	A	282	ARG
1	A	283	LEU
1	A	285	ILE
1	A	295	MET
1	A	299	PHE
1	A	305	SER
1	A	306	TYR
1	A	308	LEU
1	A	318	ILE
1	A	324	ILE
1	A	327	VAL
1	A	330	VAL
1	A	351	PHE
1	A	359	TYR
1	A	366	ASP
1	A	374	PHE
1	A	376	LYS
1	A	381	PRO
1	A	393	ILE
1	A	397	TYR
1	A	401	LYS
1	A	404	GLN
1	A	409	LEU
1	A	412	LYS
1	A	418	THR
1	A	431	THR
1	A	432	THR
1	A	435	LEU
1	A	438	ARG
1	A	439	LEU
1	A	441	ASP
1	A	443	LEU
1	A	447	VAL
1	A	453	ASP
1	A	456	THR
1	A	459	VAL
1	A	469	VAL
1	A	472	GLU
1	A	490	ASP
1	A	493	MET

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Mol	Chain	Res	Type
1	A	498	LYS
1	A	500	VAL
1	A	501	LYS
1	A	502	GLU
1	A	512	LEU
1	A	519	LEU
1	A	527	LEU
1	A	541	LEU
1	A	543	ARG
1	A	558	ASP
1	A	577	THR
1	A	578	THR
1	A	579	ILE
1	A	581	ILE
1	A	586	SER
1	A	609	ASP
1	A	613	ARG
1	A	684	LEU
1	A	686	GLU
1	A	688	VAL
1	A	693	PHE
1	A	694	TRP
1	A	697	LEU
1	A	709	VAL
1	A	711	ILE
1	A	715	ILE
1	A	716	ILE
1	A	722	PRO
1	A	727	ILE
1	A	747	ASN
1	A	751	PHE
1	A	754	LEU
1	A	768	LEU
1	A	769	GLN
1	A	771	PHE
1	A	773	PHE
1	A	780	LEU
1	A	781	THR
1	A	784	LEU
1	A	789	PHE
1	A	793	LEU
1	A	795	GLN

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Mol	Chain	Res	Type
1	A	800	PHE
1	A	804	LYS
1	A	806	THR
1	A	832	ILE
1	A	834	GLN
1	A	838	ASN
1	A	843	ILE
1	A	848	ILE
1	A	851	TRP
1	A	853	LEU
1	A	854	THR
1	A	862	PRO
1	A	872	MET
1	A	881	LYS
1	A	882	ASP
1	A	887	GLU
1	A	900	PHE
1	A	901	ARG
1	A	902	THR
1	A	905	SER
1	A	908	ARG
1	A	909	GLU
1	A	912	PHE
1	A	919	SER
1	A	926	ASN
1	A	938	PHE
1	A	942	GLN
1	A	945	MET
1	A	954	ARG
1	A	959	LEU
1	A	964	LEU
1	A	969	ASN
1	A	990	PHE
1	A	993	ASP
1	A	996	LYS
1	A	1004	ILE
1	A	1012	PRO
1	A	1014	ILE
1	A	1019	THR
1	A	1020	GLN
1	A	1033	PHE
1	A	1040	TYR

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Mol	Chain	Res	Type
1	A	1041	PRO
1	A	1044	PRO
1	A	1054	LEU
1	A	1055	GLU
1	A	1060	GLN
1	A	1064	LEU
1	A	1077	GLN
1	A	1083	TYR
1	A	1084	ASP
1	A	1089	SER
1	A	1090	VAL
1	A	1095	LYS
1	A	1099	GLN
1	A	1102	VAL
1	A	1108	GLN
1	A	1109	LEU
1	A	1118	LEU
1	A	1120	ASP
1	A	1131	ASP
1	A	1140	GLU
1	A	1158	PRO
1	A	1168	LYS
1	A	1180	ILE
1	A	1192	ILE
1	A	1195	LEU
1	A	1204	THR
1	A	1205	GLU
1	A	1216	LYS
1	A	1218	ARG
1	A	1221	ARG
1	A	1230	LEU
1	A	1242	ILE
1	A	1246	LYS
1	A	1252	THR
1	A	1254	GLN
1	A	1259	GLN
1	A	1267	VAL
1	B	38	MET
1	B	41	TYR
1	B	55	LEU
1	B	59	ILE
1	B	64	LEU

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Mol	Chain	Res	Type
1	B	76	ASP
1	B	83	ASN
1	B	91	MET
1	B	93	GLU
1	B	99	MET
1	B	100	PHE
1	B	102	LYS
1	B	107	MET
1	B	113	TYR
1	B	131	PHE
1	B	132	TRP
1	B	133	CYS
1	B	134	LEU
1	B	142	LYS
1	B	147	PHE
1	B	148	PHE
1	B	155	GLU
1	B	156	ILE
1	B	158	TRP
1	B	170	ARG
1	B	173	ASP
1	B	185	LYS
1	B	186	ILE
1	B	189	PHE
1	B	190	PHE
1	B	195	THR
1	B	206	ARG
1	B	210	LEU
1	B	219	PRO
1	B	228	TRP
1	B	236	THR
1	B	238	LYS
1	B	243	TYR
1	B	245	LYS
1	B	252	GLU
1	B	254	LEU
1	B	261	ILE
1	B	270	LEU
1	B	281	LYS
1	B	282	ARG
1	B	285	ILE
1	B	295	MET

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Mol	Chain	Res	Type
1	B	305	SER
1	B	306	TYR
1	B	308	LEU
1	B	318	ILE
1	B	324	ILE
1	B	327	VAL
1	B	330	VAL
1	B	351	PHE
1	B	359	TYR
1	B	366	ASP
1	B	377	SER
1	B	393	ILE
1	B	397	TYR
1	B	401	LYS
1	B	404	GLN
1	B	409	LEU
1	B	418	THR
1	B	429	LYS
1	B	438	ARG
1	B	439	LEU
1	B	441	ASP
1	B	443	LEU
1	B	447	VAL
1	B	453	ASP
1	B	456	THR
1	B	459	VAL
1	B	472	GLU
1	B	490	ASP
1	B	493	MET
1	B	498	LYS
1	B	500	VAL
1	B	501	LYS
1	B	502	GLU
1	B	512	LEU
1	B	519	LEU
1	B	527	LEU
1	B	541	LEU
1	B	543	ARG
1	B	558	ASP
1	B	577	THR
1	B	578	THR
1	B	579	ILE

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Mol	Chain	Res	Type
1	B	581	ILE
1	B	586	SER
1	B	609	ASP
1	B	613	ARG
1	B	693	PHE
1	B	694	TRP
1	B	697	LEU
1	B	709	VAL
1	B	711	ILE
1	B	716	ILE
1	B	727	ILE
1	B	751	PHE
1	B	754	LEU
1	B	768	LEU
1	B	769	GLN
1	B	771	PHE
1	B	773	PHE
1	B	780	LEU
1	B	781	THR
1	B	784	LEU
1	B	786	TYR
1	B	789	PHE
1	B	793	LEU
1	B	795	GLN
1	B	800	PHE
1	B	803	PRO
1	B	804	LYS
1	B	806	THR
1	B	832	ILE
1	B	834	GLN
1	B	838	ASN
1	B	843	ILE
1	B	848	ILE
1	B	851	TRP
1	B	854	THR
1	B	855	LEU
1	B	857	LEU
1	B	862	PRO
1	B	872	MET
1	B	881	LYS
1	B	882	ASP
1	B	900	PHE

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Mol	Chain	Res	Type
1	B	901	ARG
1	B	902	THR
1	B	905	SER
1	B	908	ARG
1	B	909	GLU
1	B	912	PHE
1	B	919	SER
1	B	921	GLN
1	B	923	PRO
1	B	926	ASN
1	B	938	PHE
1	B	942	GLN
1	B	945	MET
1	B	954	ARG
1	B	959	LEU
1	B	964	LEU
1	B	969	ASN
1	B	982	MET
1	B	990	PHE
1	B	993	ASP
1	B	996	LYS
1	B	1004	ILE
1	B	1010	LYS
1	B	1011	THR
1	B	1014	ILE
1	B	1020	GLN
1	B	1024	PRO
1	B	1027	LEU
1	B	1033	PHE
1	B	1040	TYR
1	B	1041	PRO
1	B	1054	LEU
1	B	1055	GLU
1	B	1060	GLN
1	B	1064	LEU
1	B	1077	GLN
1	B	1083	TYR
1	B	1084	ASP
1	B	1090	VAL
1	B	1098	LYS
1	B	1099	GLN
1	B	1102	VAL

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Mol	Chain	Res	Type
1	B	1108	GLN
1	B	1109	LEU
1	B	1118	LEU
1	B	1120	ASP
1	B	1131	ASP
1	B	1140	GLU
1	B	1158	PRO
1	B	1168	LYS
1	B	1192	ILE
1	B	1195	LEU
1	B	1216	LYS
1	B	1218	ARG
1	B	1221	ARG
1	B	1230	LEU
1	B	1242	ILE
1	B	1246	LYS
1	B	1254	GLN
1	B	1259	GLN
1	B	1267	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (82) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	HIS
1	A	83	ASN
1	A	87	ASN
1	A	128	GLN
1	A	139	GLN
1	A	141	HIS
1	A	179	ASN
1	A	274	ASN
1	A	347	ASN
1	A	379	HIS
1	A	383	ASN
1	A	385	GLN
1	A	387	ASN
1	A	394	HIS
1	A	404	GLN
1	A	434	GLN
1	A	437	GLN
1	A	458	ASN
1	A	605	GLN

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Mol	Chain	Res	Type
1	A	625	GLN
1	A	721	GLN
1	A	769	GLN
1	A	816	ASN
1	A	820	GLN
1	A	834	GLN
1	A	838	ASN
1	A	878	GLN
1	A	918	GLN
1	A	962	GLN
1	A	969	ASN
1	A	1003	HIS
1	A	1020	GLN
1	A	1032	GLN
1	A	1099	GLN
1	A	1108	GLN
1	A	1114	GLN
1	A	1149	ASN
1	A	1235	ASN
1	A	1244	ASN
1	A	1270	GLN
1	B	60	HIS
1	B	83	ASN
1	B	87	ASN
1	B	128	GLN
1	B	139	GLN
1	B	141	HIS
1	B	145	GLN
1	B	153	ASN
1	B	179	ASN
1	B	274	ASN
1	B	326	GLN
1	B	347	ASN
1	B	379	HIS
1	B	385	GLN
1	B	387	ASN
1	B	394	HIS
1	B	404	GLN
1	B	437	GLN
1	B	605	GLN
1	B	625	GLN
1	B	717	ASN

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Mol	Chain	Res	Type
1	B	721	GLN
1	B	747	ASN
1	B	769	GLN
1	B	795	GLN
1	B	820	GLN
1	B	834	GLN
1	B	838	ASN
1	B	878	GLN
1	B	918	GLN
1	B	932	HIS
1	B	963	GLN
1	B	969	ASN
1	B	1003	HIS
1	B	1032	GLN
1	B	1099	GLN
1	B	1108	GLN
1	B	1114	GLN
1	B	1149	ASN
1	B	1235	ASN
1	B	1244	ASN
1	B	1270	GLN

5.3.3 RNA (i)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 12 ligands modelled in this entry, 12 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled 'Q< 0.9' lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	1182/1284 (92%)	-0.31	20 (1%)	70	62	36, 127, 195, 207	0
1	B	1182/1284 (92%)	-0.23	31 (2%)	56	47	47, 141, 200, 207	0
All	All	2364/2568 (92%)	-0.27	51 (2%)	62	54	36, 135, 198, 207	0

All (51) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	275	ASN	4.5
1	A	1244	ASN	4.3
1	B	382	ASP	4.3
1	A	961	THR	4.2
1	B	383	ASN	4.1
1	B	802	ASP	3.8
1	A	574	GLU	3.8
1	B	1229	ARG	3.6
1	B	600	GLY	3.4
1	A	208	TRP	3.3
1	B	926	ASN	3.2
1	B	798	SER	3.1
1	B	275	ASN	3.1
1	B	112	TYR	3.1
1	A	625	GLN	3.0
1	A	962	GLN	3.0
1	B	785	ARG	3.0
1	B	878	GLN	2.9
1	B	1244	ASN	2.9
1	A	1123	ILE	2.8
1	B	1168	LYS	2.7
1	A	525	ALA	2.7
1	B	400	ARG	2.7
1	B	1260	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
1	B	276	ASN	2.6
1	A	1245	GLY	2.5
1	B	1157	LEU	2.5
1	B	1199	THR	2.5
1	A	1044	PRO	2.5
1	B	299	PHE	2.5
1	B	274	ASN	2.4
1	A	1012	PRO	2.4
1	B	158	TRP	2.4
1	B	988	SER	2.3
1	B	1150	ILE	2.3
1	A	965	MET	2.3
1	A	1124	ALA	2.2
1	B	1040	TYR	2.2
1	B	930	LYS	2.2
1	B	1114	GLN	2.2
1	A	207	GLY	2.2
1	B	524	GLY	2.1
1	A	577	THR	2.1
1	A	416	GLY	2.1
1	A	1015	ASP	2.1
1	A	524	GLY	2.1
1	B	1024	PRO	2.1
1	A	1026	MET	2.0
1	B	228	TRP	2.0
1	B	278	GLU	2.0
1	B	1158	PRO	2.0

6.2 Non-standard residues in protein, DNA, RNA chains (i)

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum,

median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
2	HG	A	1286	1/1	0.58	0.40	166,166,166,166	1
2	HG	B	1288	1/1	0.90	0.18	147,147,147,147	0
2	HG	A	1288	1/1	0.94	0.11	147,147,147,147	0
2	HG	B	1286	1/1	0.95	0.28	109,109,109,109	1
2	HG	B	1287	1/1	0.96	0.05	147,147,147,147	0
2	HG	A	1290	1/1	0.96	0.06	147,147,147,147	0
2	HG	B	1290	1/1	0.96	0.04	147,147,147,147	0
2	HG	A	1289	1/1	0.97	0.05	147,147,147,147	0
2	HG	B	1289	1/1	0.97	0.06	147,147,147,147	0
2	HG	B	1285	1/1	0.97	0.05	147,147,147,147	0
2	HG	A	1287	1/1	0.98	0.06	147,147,147,147	0
2	HG	A	1285	1/1	0.98	0.05	147,147,147,147	0

6.5 Other polymers (i)

There are no such residues in this entry.