Full wwPDB EM Validation Report

Nov 3, 2024 – 03:55 AM EST

PDB ID	:	6XF8
EMDB ID	:	EMD-22166
Title	:	DLP 5 fold
Authors	:	Sutton, G.; Sun, D.P.; Fu, X.F.; Kotecha, A.; Hecksel, G.W.; Clare, D.K.; Zhang, P.; Stuart, D.; Boyce, M.
Deposited on	:	2020-06-15
Resolution	:	6.50 Å(reported)

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

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

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

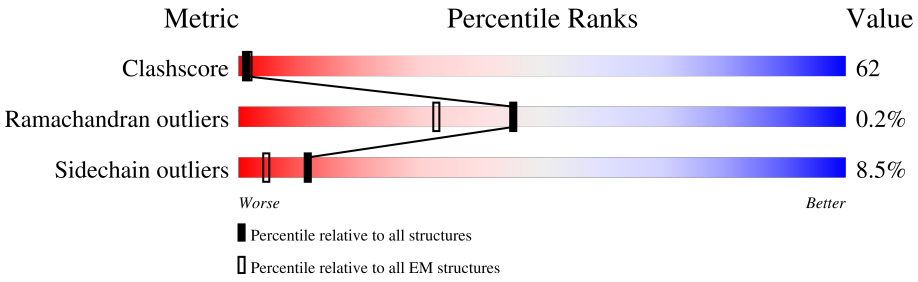
EMDB validation analysis	:	0.0.1.dev113
MolProbity	:	4.02b-467
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	: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

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 6.50 Å.

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



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

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

Mol	Chain	Length	Quality of chain
1	F	633	58% 40% 54%
1	K	633	61% 27% 61% 8%
2	G	365	42% 34% 59% 7%
2	H	365	52% 42% 56%
2	I	365	36% 45% 53%
3	E	417	53% 36% 58% 7%
4	B	1059	55% 37% 56% 5%
4	C	1059	50% 35% 58% 6%

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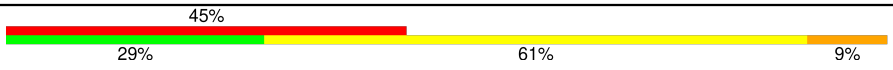
Mol	Chain	Length	Quality of chain
5	A	1288	

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 47830 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Outer capsid protein mu-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	K	608	Total 4641	C 2950	N 770	O 903	S 18	0	0
1	F	608	Total 4641	C 2950	N 770	O 903	S 18	0	0

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
K	344	LEU	PRO	conflict	UNP P11077
K	359	PHE	LEU	conflict	UNP P11077
F	344	LEU	PRO	conflict	UNP P11077
F	359	PHE	LEU	conflict	UNP P11077

- Molecule 2 is a protein called Outer capsid protein sigma-3.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	I	365	Total 2885	C 1818	N 508	O 531	S 28	0	0
2	H	365	Total 2885	C 1818	N 508	O 531	S 28	0	0
2	G	365	Total 2885	C 1818	N 508	O 531	S 28	0	0

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
I	104	CYS	ALA	conflict	UNP P07939
I	325	ASN	ASP	conflict	UNP P07939
H	104	CYS	ALA	conflict	UNP P07939
H	325	ASN	ASP	conflict	UNP P07939
G	104	CYS	ALA	conflict	UNP P07939
G	325	ASN	ASP	conflict	UNP P07939

- Molecule 3 is a protein called Inner capsid protein sigma-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	E	417	Total	C	N	O	S	0	0
			3313	2092	600	604	17		

- Molecule 4 is a protein called Inner capsid protein lambda-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	C	1051	Total	C	N	O	S	0	0
			8311	5314	1407	1540	50		
4	B	1031	Total	C	N	O	S	0	0
			8143	5208	1375	1510	50		

- Molecule 5 is a protein called mRNA (guanine-N(7)-)-methyltransferase.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	A	1284	Total	C	N	O	S	0	0
			10126	6468	1699	1917	42		

There are 35 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	37	ASN	THR	conflict	UNP Q91RA5
A	78	ALA	VAL	conflict	UNP Q91RA5
A	97	VAL	ILE	conflict	UNP Q91RA5
A	108	ASN	SER	conflict	UNP Q91RA5
A	151	ALA	VAL	conflict	UNP Q91RA5
A	231	HIS	ASN	conflict	UNP Q91RA5
A	277	THR	ALA	conflict	UNP Q91RA5
A	365	THR	ALA	conflict	UNP Q91RA5
A	370	VAL	ILE	conflict	UNP Q91RA5
A	407	MET	VAL	conflict	UNP Q91RA5
A	425	ASP	GLU	conflict	UNP Q91RA5
A	508	SER	ALA	conflict	UNP Q91RA5
A	509	ARG	GLY	conflict	UNP Q91RA5
A	559	ILE	VAL	conflict	UNP Q91RA5
A	599	LEU	PHE	conflict	UNP Q91RA5
A	622	PRO	THR	conflict	UNP Q91RA5
A	661	HIS	GLN	conflict	UNP Q91RA5
A	775	ILE	VAL	conflict	UNP Q91RA5
A	799	SER	ALA	conflict	UNP Q91RA5
A	889	MET	ILE	conflict	UNP Q91RA5
A	916	LYS	ARG	conflict	UNP Q91RA5

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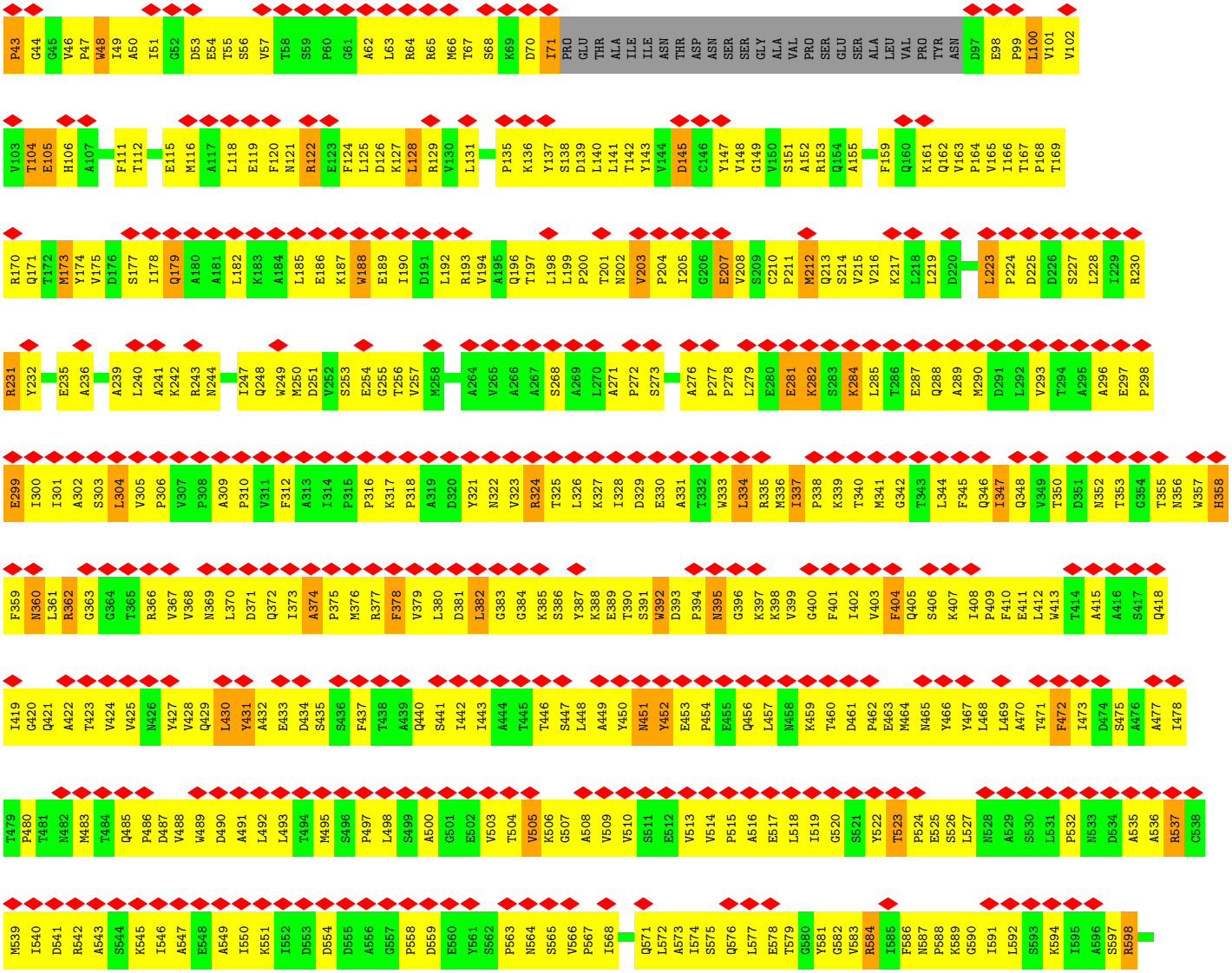
Chain	Residue	Modelled	Actual	Comment	Reference
A	944	SER	ALA	conflict	UNP Q91RA5
A	950	ARG	LYS	conflict	UNP Q91RA5
A	964	ASP	GLY	conflict	UNP Q91RA5
A	982	VAL	ILE	conflict	UNP Q91RA5
A	991	THR	ALA	conflict	UNP Q91RA5
A	992	ARG	LYS	conflict	UNP Q91RA5
A	1008	ILE	VAL	conflict	UNP Q91RA5
A	1031	ARG	GLN	conflict	UNP Q91RA5
A	1052	VAL	ILE	conflict	UNP Q91RA5
A	1083	THR	ALA	conflict	UNP Q91RA5
A	1119	VAL	ILE	conflict	UNP Q91RA5
A	1155	THR	ALA	conflict	UNP Q91RA5
A	1263	VAL	ILE	conflict	UNP Q91RA5
A	1274	ILE	LEU	conflict	UNP Q91RA5

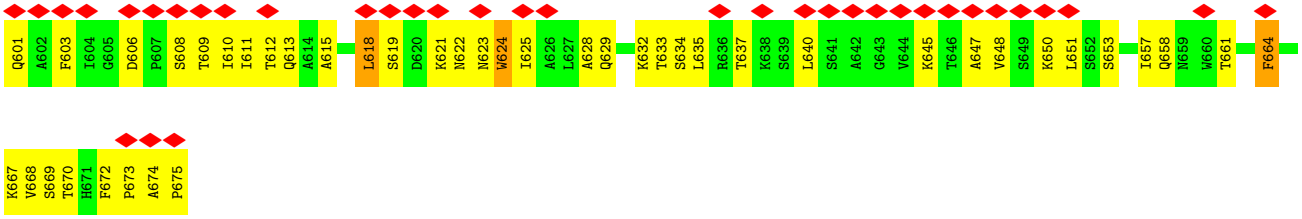
3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: Outer capsid protein mu-1

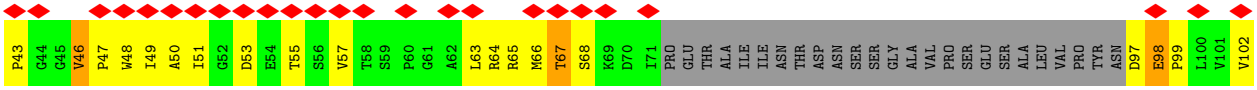
Chain K:

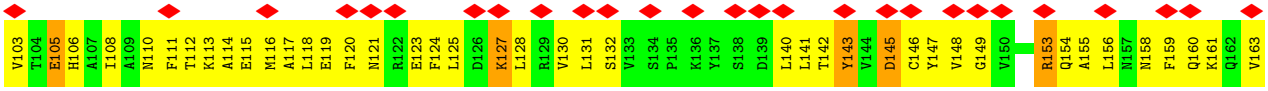


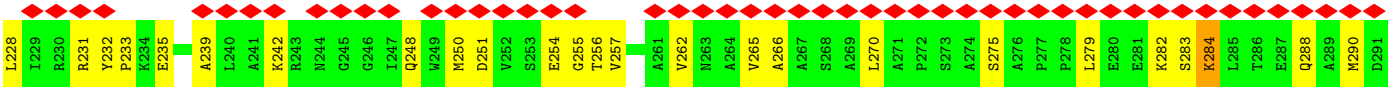


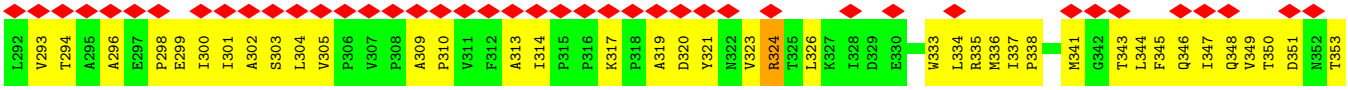
• Molecule 1: Outer capsid protein mu-1

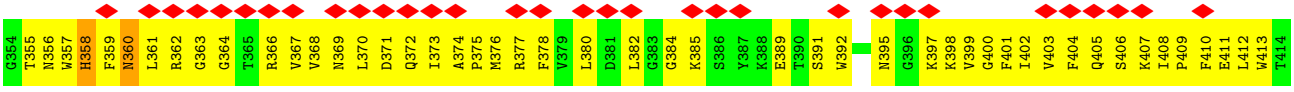
Chain F:

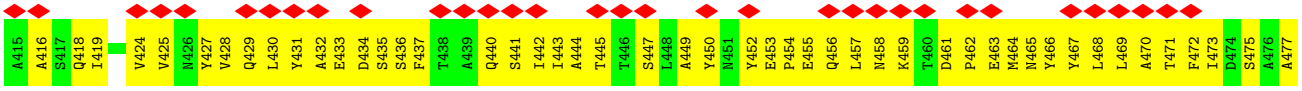


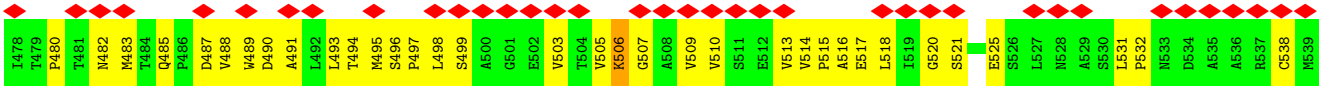


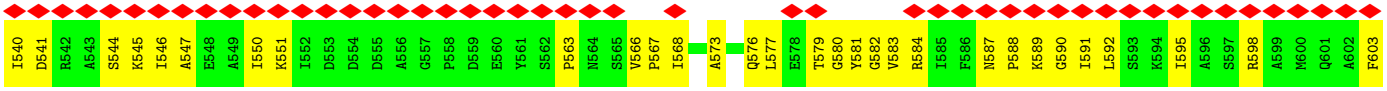


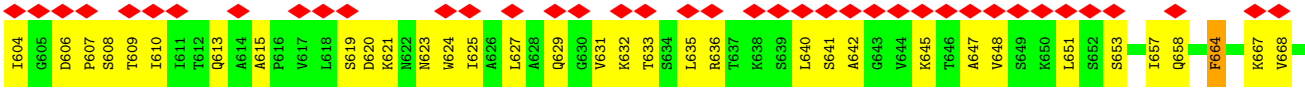






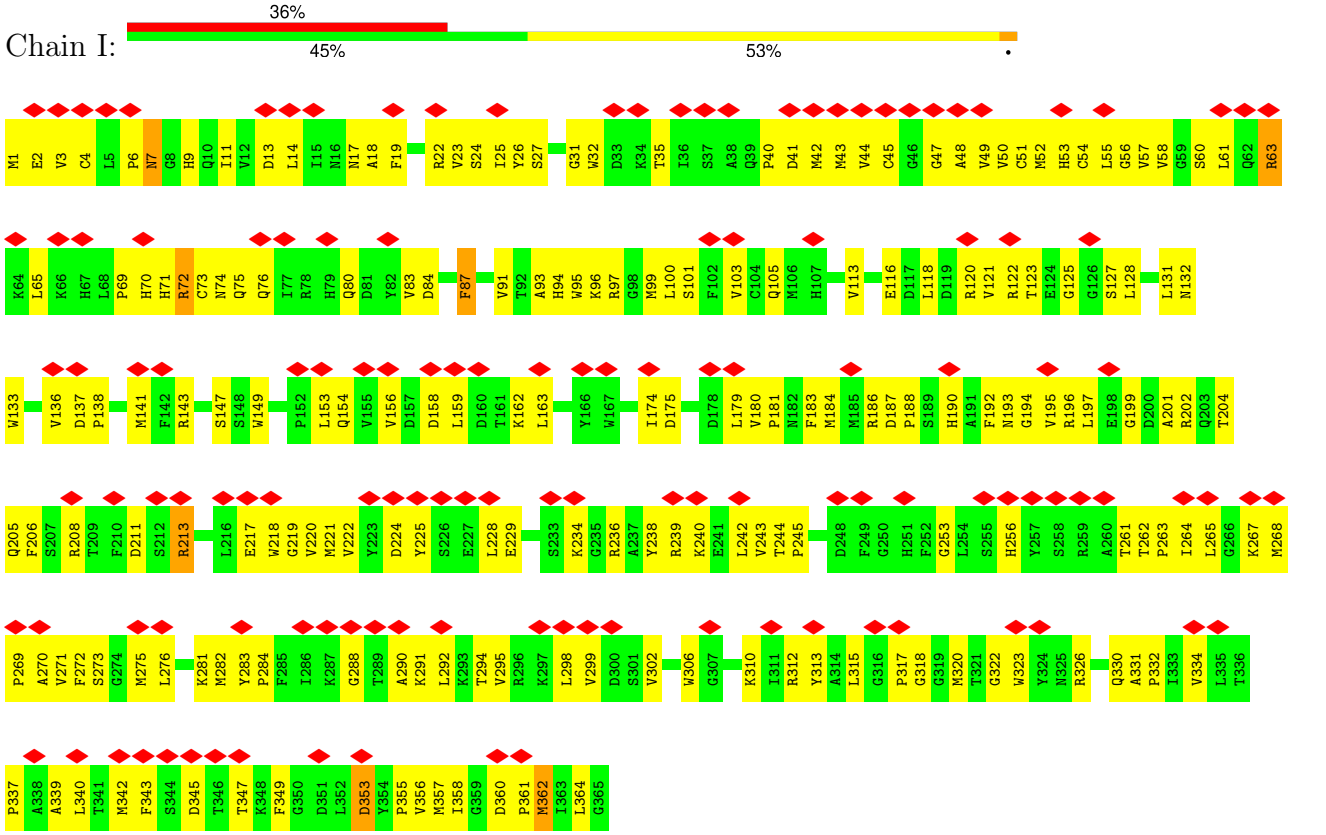






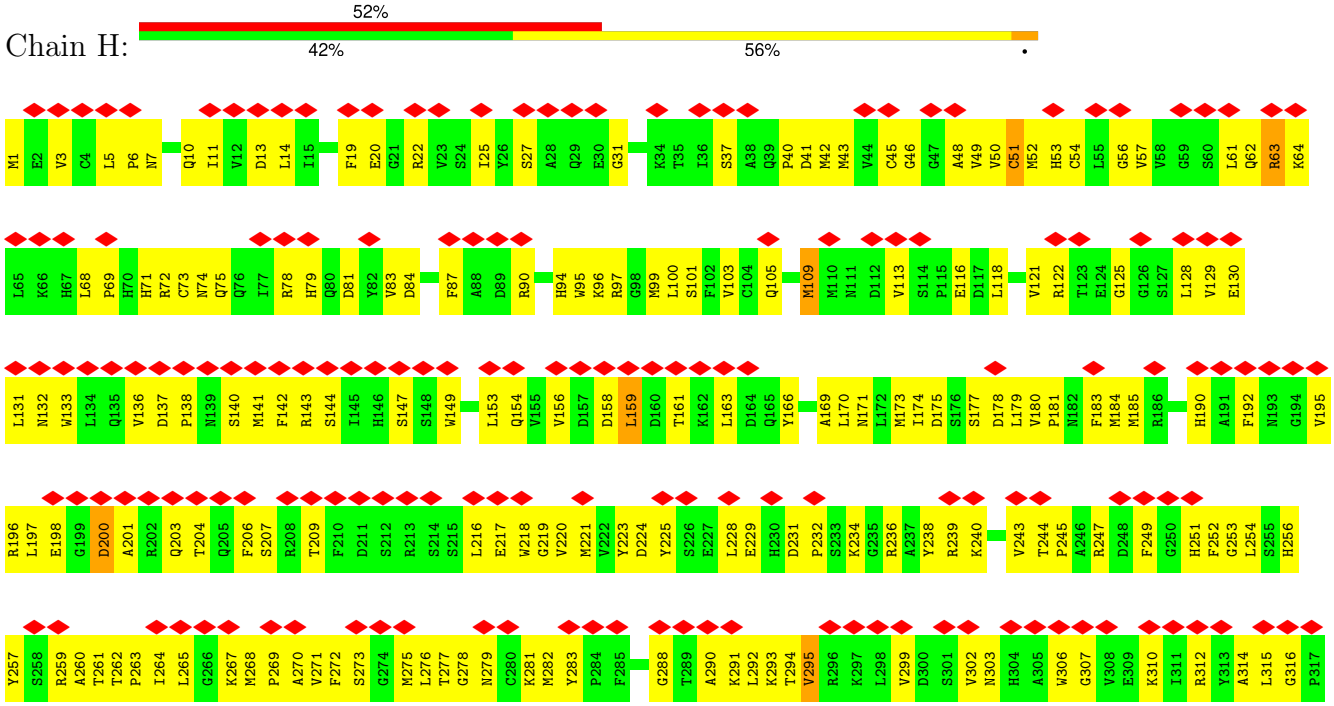
• Molecule 2: Outer capsid protein sigma-3

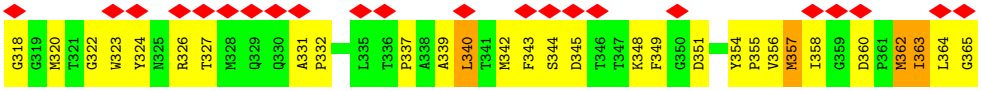
Chain I:



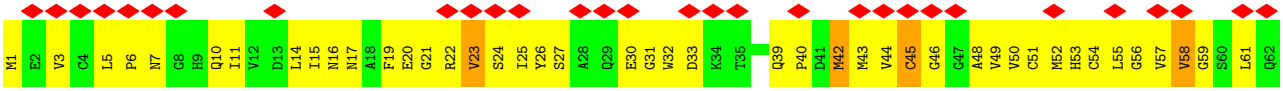
• Molecule 2: Outer capsid protein sigma-3

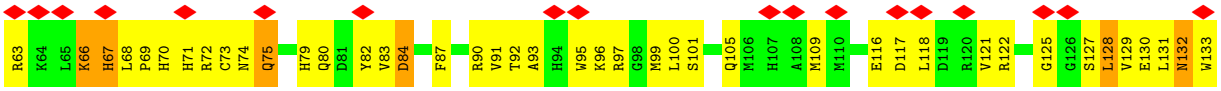
Chain H:

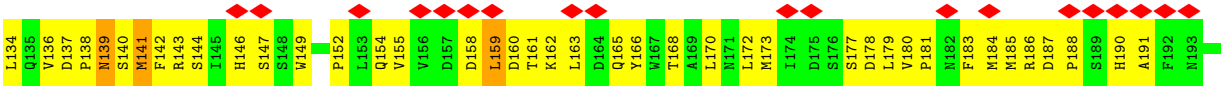


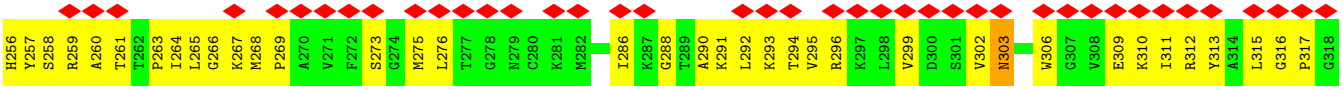


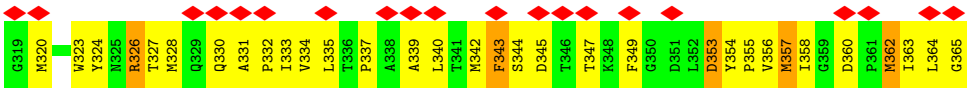
• Molecule 2: Outer capsid protein sigma-3



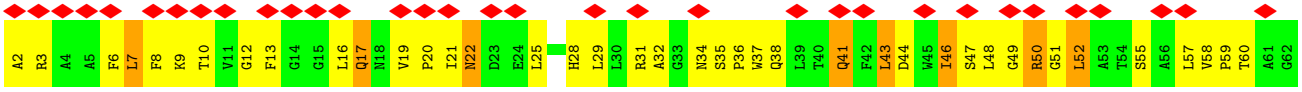


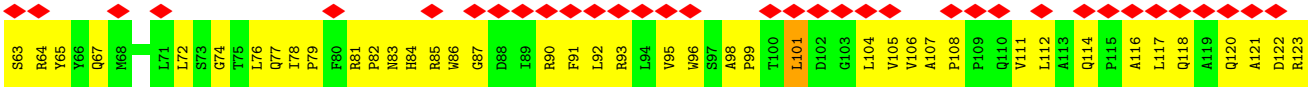


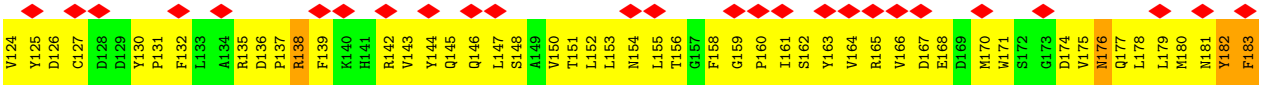


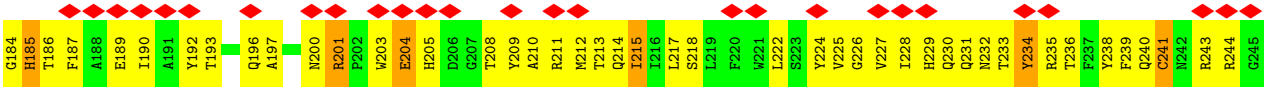


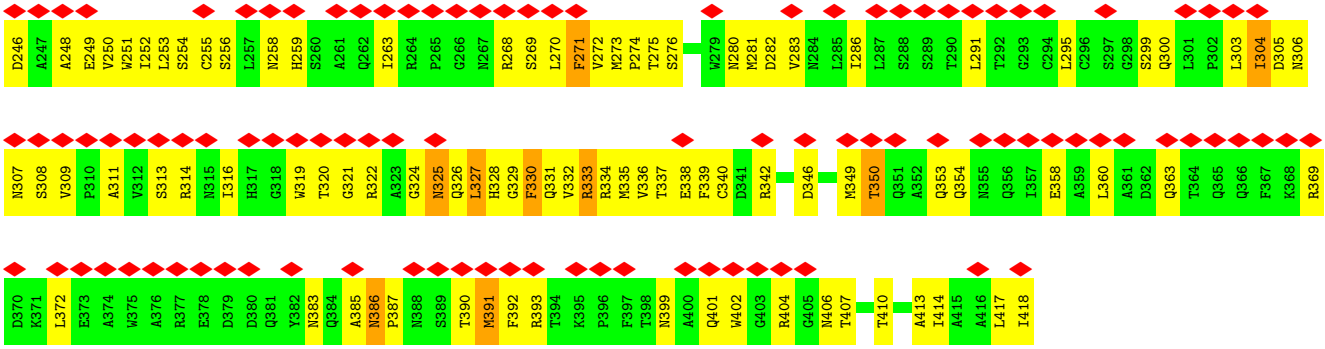
• Molecule 3: Inner capsid protein sigma-2





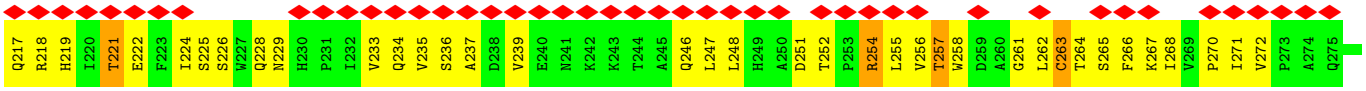


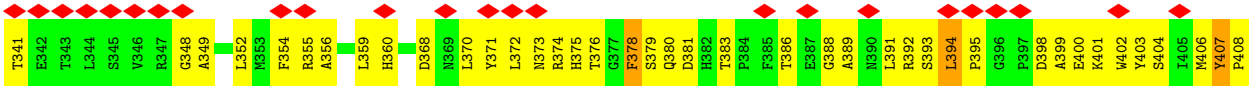


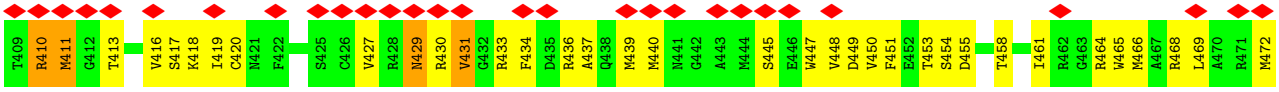


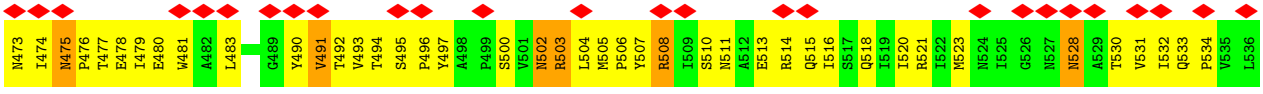
• Molecule 4: Inner capsid protein lambda-1

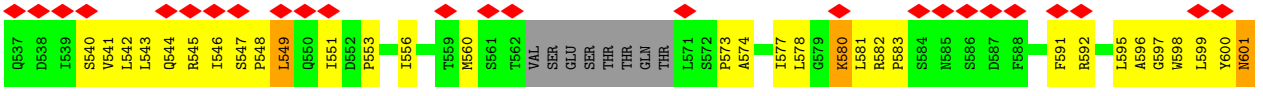
Chain C:

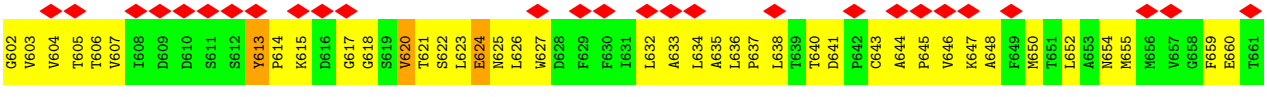


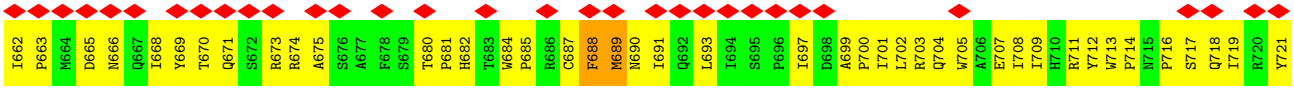


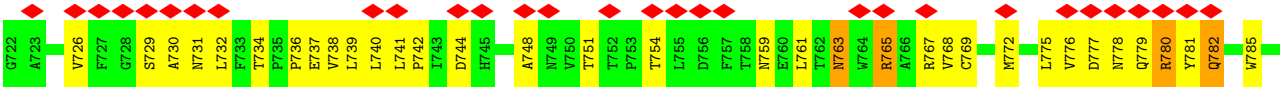


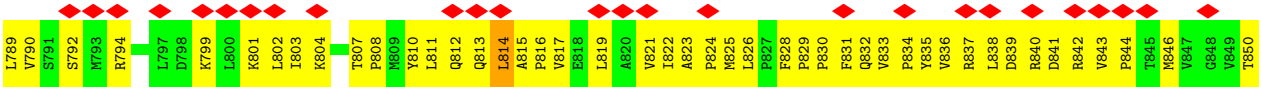


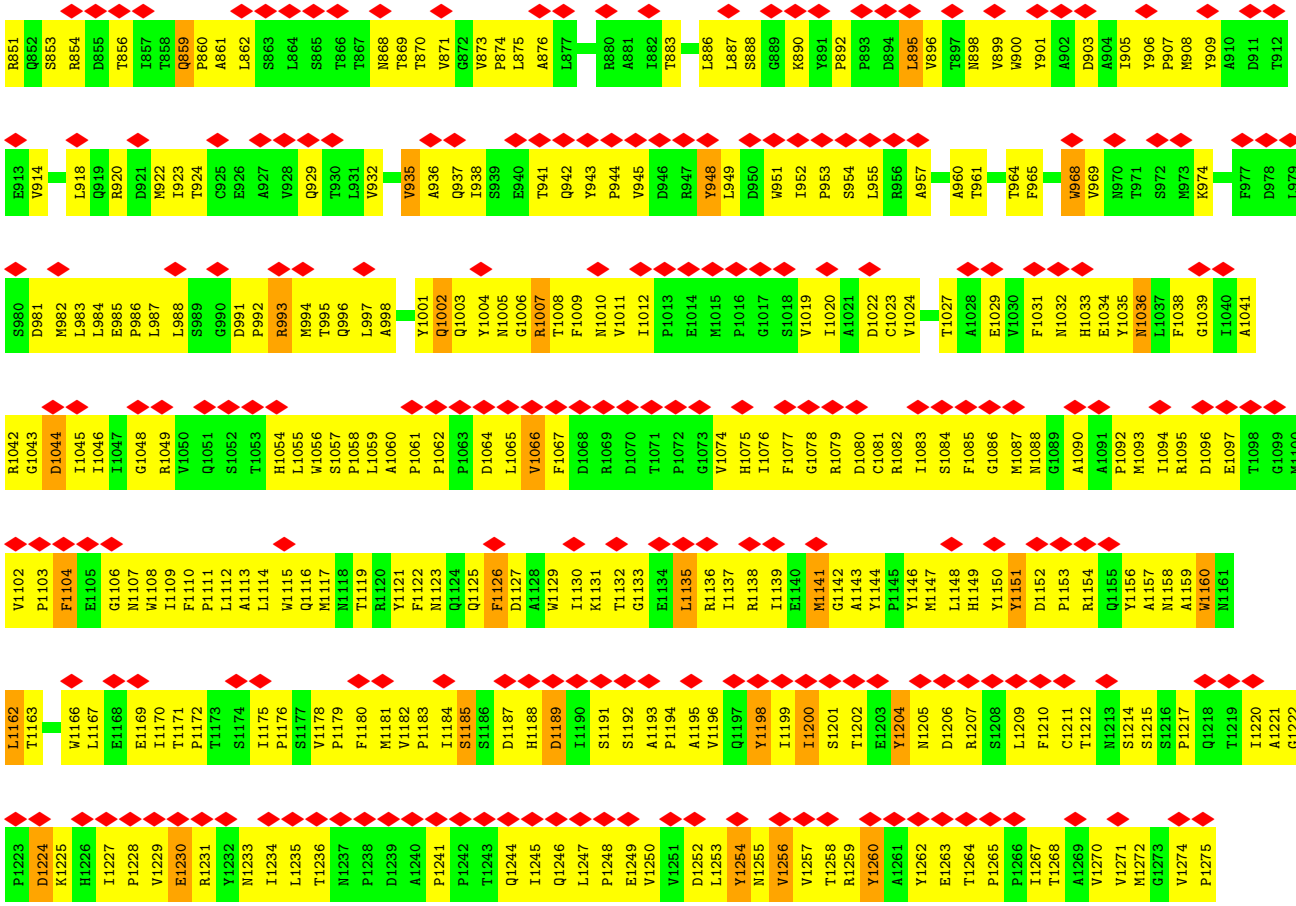






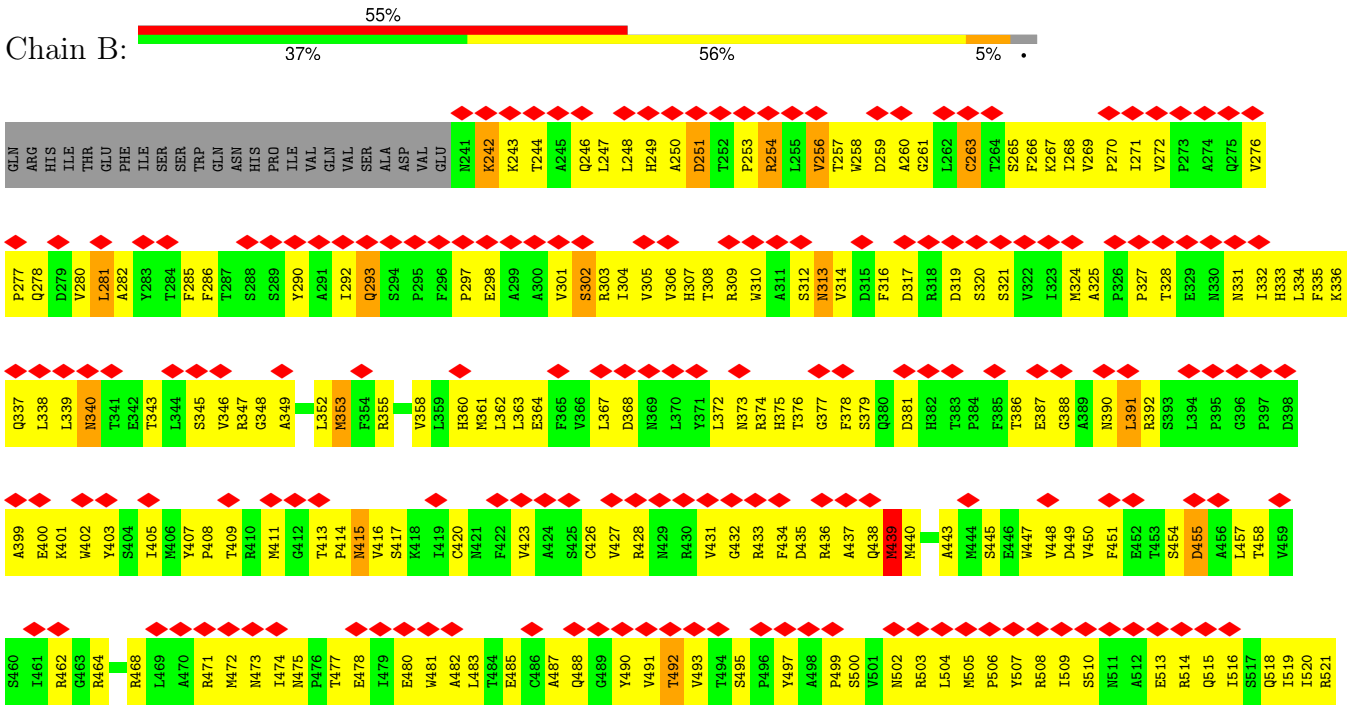


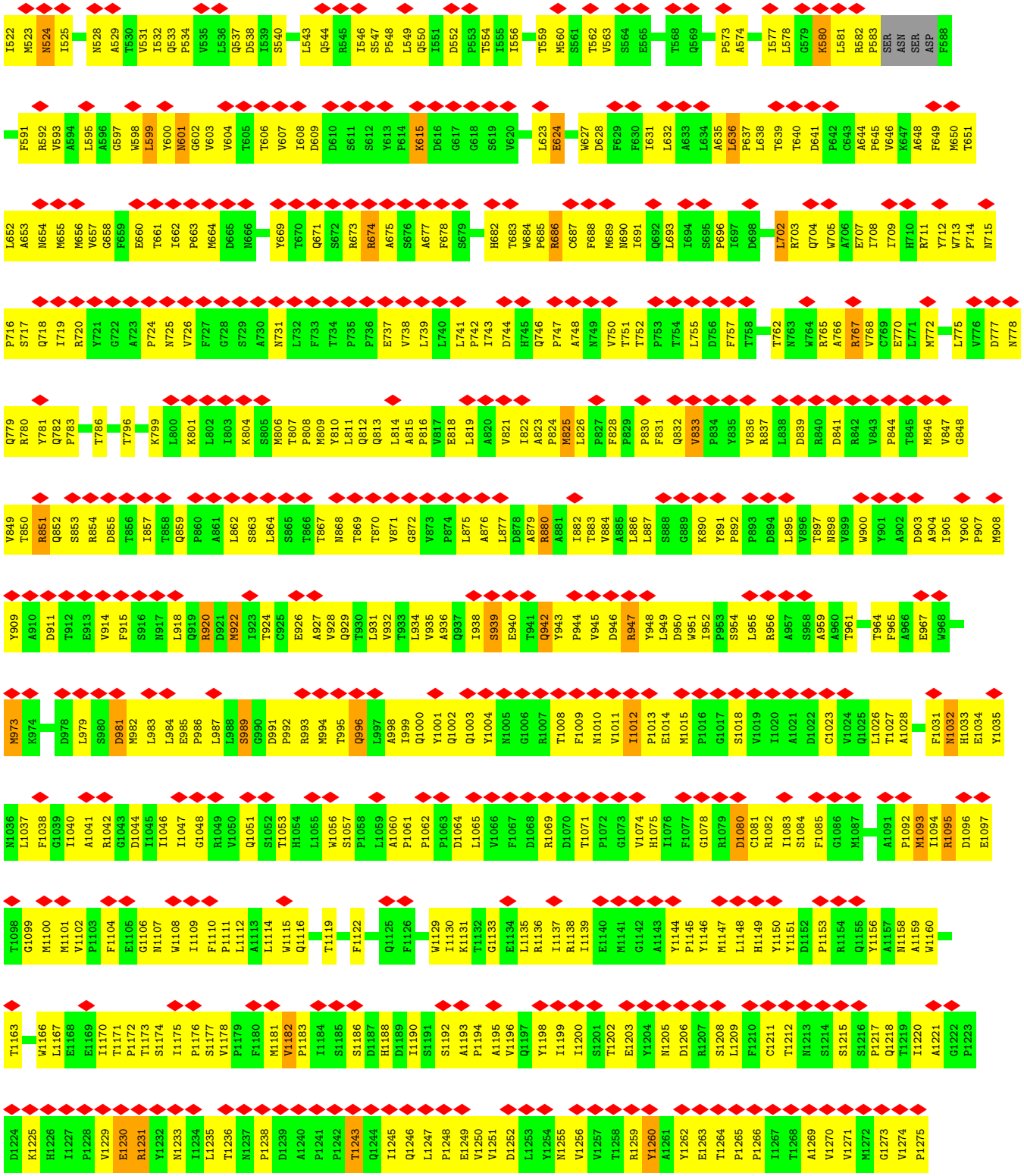




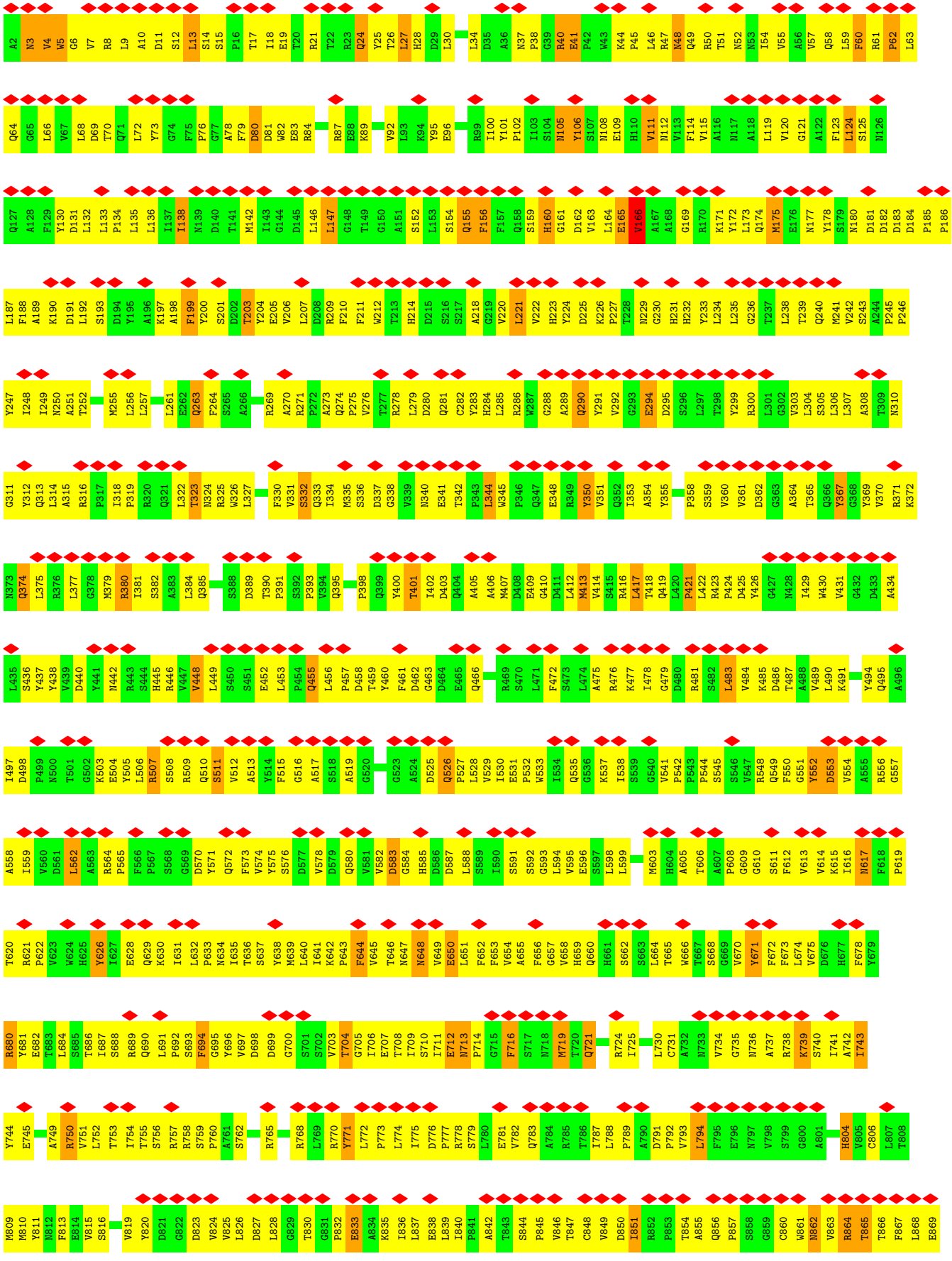
• Molecule 4: Inner capsid protein lambda-1

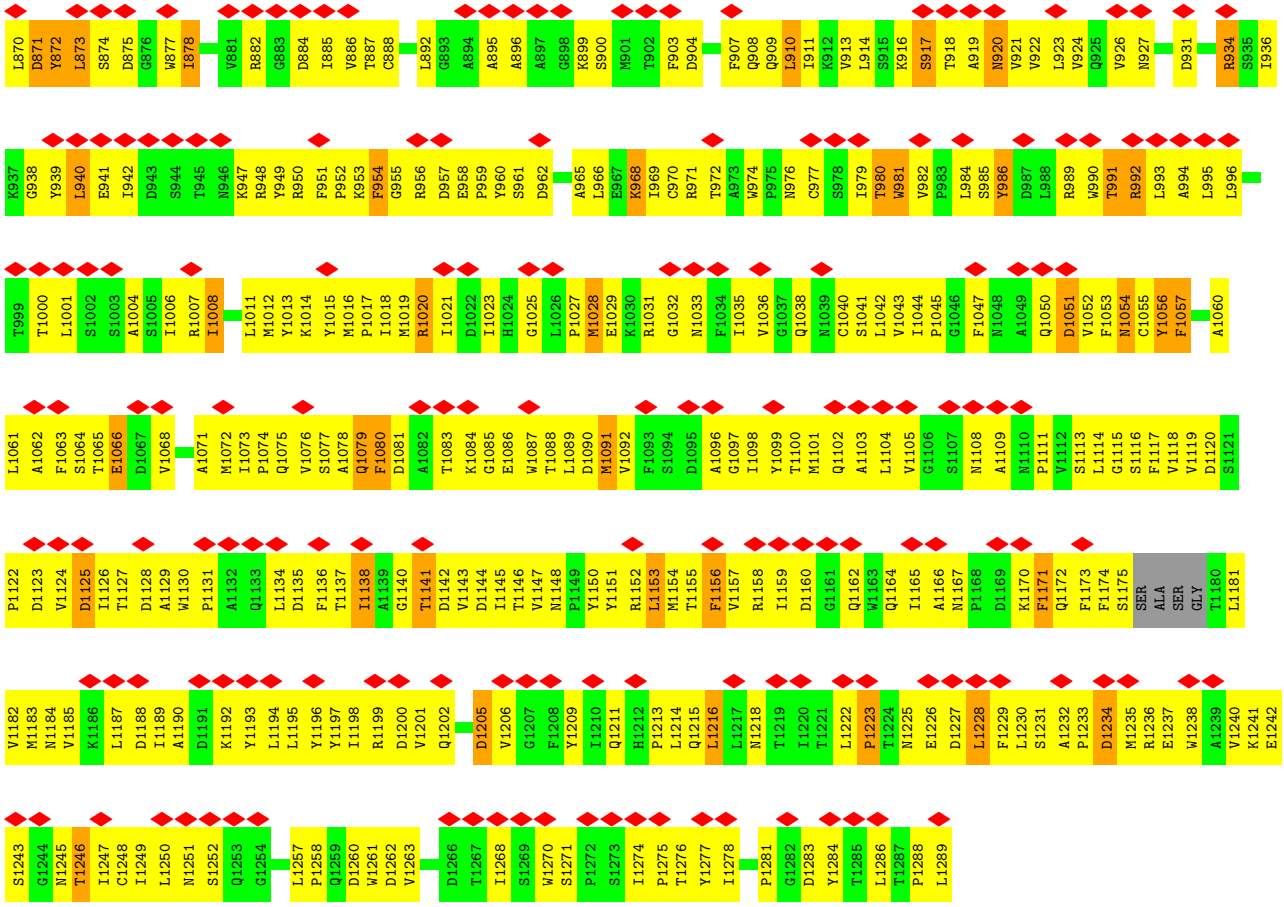
Chain B:





• Molecule 5: mRNA (guanine-N(7)-)-methyltransferase




L870 D871 Y872 L873 S874 D875 G876 W877 I878 V881 R882 G883 D884 I885 V886 T887 C888 L892 G893 A894 A895 A896 A897 G898 K899 S900 N901 T902 F903 D904 F907 Q908 Q909 L910 I911 K912 V913 L914 S915 K916 S917 T918 A919 N920 V921 V922 L923 V924 Q925 V926 N927 D931 R934 S935 I936
K937 G938 Y939 L940 E941 I942 D943 S944 T945 N946 K947 R948 Y949 R950 F951 P952 K953 F954 G955 R956 D957 E958 P959 Y960 S961 D962 A965 L966 E967 K968 I969 C970 R971 T972 A973 W974 P975 N976 C977 S978 I979 T980 W981 V982 P983 L984 S985 Y986 D987 I988 R989 W990 T991 R992 L993 A994 L995 L996
T999 T1000 L1001 S1002 S1003 A1004 S1005 I1006 R1007 I1008 L1011 M1012 Y1013 K1014 Y1015 M1016 P1017 I1018 M1019 R1020 I1021 D1022 I1023 H1024 G1025 L1026 P1027 M1028 E1029 K1030 R1031 G1032 N1033 F1034 I1035 V1036 G1037 Q1038 N1039 C1040 S1041 L1042 V1043 I1044 P1045 G1046 F1047 N1048 A1049 Q1050 D1051 V1052 F1053 N1054 C1055 Y1056 F1057 A1060
L1061 A1062 F1063 S1064 T1065 E1066 D1067 V1068 A1071 M1072 I1073 P1074 Q1075 V1076 S1077 A1078 Q1079 F1080 D1081 A1082 T1083 K1084 G1085 E1086 W1087 T1088 L1089 D1090 M1091 V1092 F1093 S1094 D1095 A1096 G1097 I1098 Y1099 T1100 M1101 Q1102 A1103 L1104 V1105 G1106 S1107 N1108 A1109 N1110 P1111 V1112 S1113 L1114 G1115 S1116 F1117 V1118 V1119 D1120 S1121
P1122 D1123 V1124 D1125 I1126 T1127 D1128 A1129 W1130 P1131 A1132 Q1133 L1134 D1135 F1136 T1137 I1138 A1139 G1140 T1141 D1142 V1143 D1144 I1145 T1146 V1147 N1148 P1149 Y1150 Y1151 R1152 L1153 M1154 T1155 F1156 V1157 R1158 I1159 D1160 G1161 Q1162 W1163 Q1164 I1165 A1166 N1167 P1168 D1169 K1170 F1171 Q1172 F1173 F1174 S1175 SER ALA SER GLY T1180 L1181
V1182 M1183 N1184 V1185 K1186 L1187 D1188 I1189 A1190 D1191 K1192 Y1193 L1194 L1195 Y1196 Y1197 I1198 R1199 D1200 V1201 Q1202 D1205 V1206 G1207 F1208 Y1209 I1210 Q1211 H1212 P1213 L1214 Q1215 L1216 L1217 N1218 T1219 I1220 T1221 L1222 P1223 T1224 N1225 E1226 D1227 L1228 F1229 L1230 S1231 A1232 P1233 D1234 M1235 R1236 E1237 W1238 A1239 V1240 K1241 E1242
S1243 G1244 N1245 T1246 I1247 C1248 I1249 L1250 N1251 S1252 Q1253 G1254 L1257 P1258 Q1259 D1260 W1261 D1262 V1263 D1266 T1267 I1268 S1269 W1270 S1271 P1272 S1273 I1274 P1275 T1276 Y1277 I1278 P1281 G1282 D1283 Y1284 T1285 L1286 T1287 P1288 L1289

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	POINT, C5	Depositor
Number of subtomograms used	625	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	2	Depositor
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	Not provided	
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	8.955	Depositor
Minimum map value	-5.801	Depositor
Average map value	0.054	Depositor
Map value standard deviation	0.430	Depositor
Recommended contour level	2.7	Depositor
Map size (Å)	648.0, 648.0, 648.0	wwPDB
Map dimensions	360, 360, 360	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.8, 1.8, 1.8	Depositor

5 Model quality

5.1 Standard geometry

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	F	0.63	0/4737	0.68	0/6466
1	K	0.62	0/4737	0.69	0/6466
2	G	0.62	0/2957	0.69	0/4005
2	H	0.61	0/2957	0.68	0/4005
2	I	0.61	0/2957	0.68	0/4005
3	E	0.59	0/3398	0.68	0/4626
4	B	0.60	0/8363	0.69	0/11454
4	C	0.61	0/8537	0.68	0/11693
5	A	0.61	0/10384	0.68	0/14170
All	All	0.61	0/49027	0.68	0/66890

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts

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	F	4641	0	4668	603	0
1	K	4641	0	4655	948	0
2	G	2885	0	2806	465	0
2	H	2885	0	2813	297	0
2	I	2885	0	2813	254	0
3	E	3313	0	3214	570	0
4	B	8143	0	8056	1003	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	C	8311	0	8205	1030	0
5	A	10126	0	9903	1406	0
All	All	47830	0	47133	5917	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 62.

All (5917) 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:K:506:LYS:HG3	2:G:313:TYR:CG	1.26	1.65
1:K:584:ARG:HB2	2:G:70:HIS:CD2	1.27	1.63
3:E:258:ASN:HB2	4:C:854:ARG:CZ	1.30	1.61
1:K:504:THR:HG22	2:G:317:PRO:CG	1.13	1.60
4:C:394:LEU:HD22	4:C:395:PRO:CD	1.27	1.58
3:E:86:TRP:CZ3	4:B:859:GLN:NE2	1.69	1.57
1:K:490:ASP:HB3	1:F:436:SER:CB	1.20	1.57
3:E:106:VAL:HG22	4:B:944:PRO:CG	1.29	1.56
1:K:517:GLU:HG3	2:G:313:TYR:CE2	1.36	1.55
3:E:178:LEU:CD1	4:B:481:TRP:HH2	1.11	1.54
3:E:185:HIS:CE1	4:B:500:SER:HB2	1.39	1.54
1:K:508:ALA:HB3	2:G:312:ARG:CA	1.08	1.53
1:K:197:THR:HG21	1:F:563:PRO:CB	1.34	1.52
1:K:517:GLU:HG3	2:G:313:TYR:CZ	1.41	1.51
3:E:180:MET:CE	4:B:497:TYR:HD2	1.21	1.51
1:K:508:ALA:CB	2:G:312:ARG:HA	1.03	1.50
3:E:185:HIS:ND1	4:B:500:SER:CB	1.74	1.50
3:E:178:LEU:HD21	4:B:481:TRP:CZ2	1.46	1.49
1:K:517:GLU:CG	2:G:313:TYR:CE2	1.91	1.48
3:E:106:VAL:CG2	4:B:944:PRO:HG3	1.43	1.46
1:K:650:LYS:HE3	1:F:300:ILE:CD1	1.39	1.46
2:I:313:TYR:CE1	1:F:505:VAL:HG12	1.50	1.46
3:E:106:VAL:HG23	4:B:944:PRO:CD	1.42	1.46
2:G:5:LEU:HD22	2:G:6:PRO:CD	1.45	1.44
1:K:352:ASN:ND2	2:H:64:LYS:HB2	1.26	1.43
1:K:504:THR:CB	2:G:317:PRO:HD3	1.46	1.42
3:E:192:TYR:OH	4:B:471:ARG:CB	1.66	1.42
1:K:450:TYR:CD1	2:H:62:GLN:OE1	1.70	1.42
1:K:584:ARG:CB	2:G:70:HIS:HD2	1.30	1.42
2:I:73:CYS:N	1:F:581:TYR:HB2	1.32	1.42
1:K:504:THR:CG2	2:G:317:PRO:CG	1.96	1.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:450:TYR:CD1	2:H:62:GLN:CD	1.90	1.41
3:E:178:LEU:CD1	4:B:481:TRP:CH2	2.02	1.41
2:I:71:HIS:CD2	1:F:581:TYR:HB3	1.56	1.41
2:G:5:LEU:CD2	2:G:6:PRO:HD2	1.47	1.40
1:K:49:ILE:CG1	1:K:53:ASP:C	1.86	1.40
3:E:258:ASN:C	4:C:854:ARG:NH2	1.75	1.39
2:I:313:TYR:CD1	1:F:505:VAL:HG12	1.56	1.39
3:E:106:VAL:CG2	4:B:944:PRO:CD	1.99	1.38
3:E:180:MET:CE	4:B:497:TYR:CD2	2.05	1.38
3:E:183:PHE:HB3	4:B:499:PRO:CA	1.51	1.37
3:E:201:ARG:HH21	4:B:725:ASN:CA	1.36	1.37
1:K:490:ASP:CB	1:F:436:SER:CB	2.00	1.37
1:K:490:ASP:CB	1:F:436:SER:HB3	1.56	1.36
3:E:86:TRP:CE3	4:B:859:GLN:NE2	1.92	1.36
3:E:258:ASN:HB2	4:C:854:ARG:NH1	1.05	1.36
3:E:185:HIS:ND1	4:B:500:SER:HB2	1.03	1.35
1:K:202:ASN:ND2	1:F:633:THR:OG1	1.59	1.34
1:K:101:VAL:CG2	1:F:265:VAL:HG21	1.57	1.33
1:K:505:VAL:HB	2:G:313:TYR:CD1	1.62	1.33
1:K:506:LYS:CB	2:G:313:TYR:N	1.71	1.33
1:K:387:TYR:OH	1:F:436:SER:CB	1.73	1.33
3:E:183:PHE:CB	4:B:499:PRO:HA	1.56	1.33
1:K:504:THR:CG2	2:G:317:PRO:CD	2.08	1.32
1:K:650:LYS:HE3	1:F:300:ILE:CG1	1.59	1.32
1:K:49:ILE:HG12	1:K:53:ASP:C	1.32	1.32
2:I:71:HIS:ND1	1:F:582:GLY:N	1.78	1.32
3:E:86:TRP:CZ3	4:B:859:GLN:CD	2.02	1.32
1:K:517:GLU:HB3	2:G:313:TYR:CE2	1.64	1.31
1:K:49:ILE:CG1	1:K:53:ASP:O	1.77	1.31
3:E:259:HIS:CE1	4:C:854:ARG:NE	1.90	1.31
2:I:73:CYS:SG	1:F:581:TYR:CZ	2.24	1.31
3:E:258:ASN:CB	4:C:854:ARG:NH1	1.93	1.31
2:I:71:HIS:HD1	1:F:582:GLY:CA	1.40	1.31
1:K:210:CYS:SG	1:K:211:PRO:HD2	1.70	1.30
1:K:517:GLU:CB	2:G:313:TYR:CE2	2.12	1.30
1:K:650:LYS:CE	1:F:300:ILE:HG12	1.60	1.30
3:E:258:ASN:CB	4:C:854:ARG:CZ	2.09	1.30
1:K:450:TYR:CE1	2:H:62:GLN:OE1	1.83	1.29
4:B:746:GLN:CG	5:A:155:GLN:HB3	1.09	1.29
1:K:525:GLU:HG3	1:F:447:SER:CB	1.62	1.29
4:C:1088:ASN:OD1	4:B:280:VAL:HA	1.21	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:71:HIS:HD1	1:F:582:GLY:N	1.30	1.28
3:E:200:ASN:OD1	4:B:508:ARG:HD3	1.21	1.28
2:I:313:TYR:CE1	1:F:505:VAL:CG1	2.13	1.28
3:E:192:TYR:CE2	4:B:471:ARG:HA	1.69	1.28
4:C:394:LEU:CD2	4:C:395:PRO:HD2	1.62	1.28
1:K:352:ASN:CB	2:H:64:LYS:HG3	1.62	1.27
1:K:197:THR:CG2	1:F:563:PRO:HB3	1.64	1.27
4:C:859:GLN:HE21	4:B:440:MET:N	1.04	1.26
1:K:490:ASP:HB3	1:F:436:SER:OG	1.31	1.26
1:K:508:ALA:C	2:G:312:ARG:HD2	1.35	1.26
4:C:859:GLN:NE2	4:B:440:MET:H	1.23	1.26
1:K:49:ILE:CD1	1:K:53:ASP:C	2.01	1.26
1:K:490:ASP:CB	1:F:436:SER:OG	1.83	1.26
3:E:184:GLY:CA	4:B:500:SER:OG	1.85	1.25
1:K:506:LYS:HB2	2:G:313:TYR:N	1.28	1.25
1:K:650:LYS:HE2	1:F:300:ILE:N	1.50	1.25
1:K:55:THR:HG21	1:K:147:TYR:CB	1.66	1.25
4:C:862:LEU:N	4:B:443:ALA:N	1.75	1.24
1:K:49:ILE:HD13	1:K:54:GLU:N	1.38	1.24
4:B:746:GLN:HG3	5:A:155:GLN:CB	1.49	1.24
1:K:525:GLU:CG	1:F:447:SER:HB2	1.67	1.24
1:K:650:LYS:CE	1:F:300:ILE:CG1	2.15	1.23
1:K:517:GLU:CG	2:G:313:TYR:CZ	2.14	1.23
3:E:178:LEU:CD2	4:B:481:TRP:CZ2	2.22	1.23
1:K:508:ALA:N	2:G:312:ARG:O	1.72	1.22
1:K:517:GLU:HB3	2:G:313:TYR:CD2	1.73	1.22
1:K:506:LYS:CG	2:G:313:TYR:CG	2.21	1.22
3:E:258:ASN:OD1	4:C:1010:ASN:ND2	1.73	1.21
3:E:184:GLY:C	4:B:500:SER:OG	1.78	1.20
3:E:201:ARG:NH2	4:B:724:PRO:C	1.93	1.20
1:K:504:THR:CG2	2:G:317:PRO:HD3	1.71	1.20
3:E:106:VAL:CG2	4:B:944:PRO:CG	1.96	1.20
1:K:197:THR:CG2	1:F:563:PRO:CB	2.17	1.20
1:K:352:ASN:HB3	2:H:64:LYS:CG	1.72	1.20
2:I:72:ARG:C	1:F:581:TYR:HB2	1.61	1.20
4:C:713:TRP:CE3	4:C:714:PRO:HD2	1.77	1.20
1:K:506:LYS:HG3	2:G:313:TYR:CB	1.71	1.19
3:E:180:MET:N	4:B:497:TYR:OH	1.74	1.19
4:C:713:TRP:CE3	4:C:714:PRO:CD	2.24	1.19
4:C:1175:ILE:CG1	4:C:1176:PRO:HD2	1.72	1.19
1:K:581:TYR:CE1	2:G:73:CYS:N	2.00	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:650:LYS:CE	1:F:300:ILE:CD1	2.18	1.19
2:I:312:ARG:NH1	1:F:506:LYS:O	1.73	1.19
1:F:305:VAL:CG1	5:A:882:ARG:NH2	2.06	1.19
3:E:192:TYR:OH	4:B:471:ARG:HB2	1.08	1.19
1:K:508:ALA:C	2:G:312:ARG:CD	2.01	1.18
1:K:387:TYR:OH	1:F:436:SER:HB2	1.04	1.17
4:C:674:ARG:NH1	4:B:1275:PRO:OXT	1.74	1.17
4:B:417:SER:HA	4:B:1217:PRO:HA	1.17	1.17
1:K:197:THR:HG21	1:F:563:PRO:HB2	1.22	1.17
4:C:268:ILE:HA	4:C:304:ILE:HA	1.25	1.16
4:C:394:LEU:CD2	4:C:395:PRO:CD	2.20	1.16
1:K:490:ASP:CG	1:F:436:SER:OG	1.84	1.16
1:K:506:LYS:HG3	2:G:313:TYR:CD2	1.80	1.16
3:E:50:ARG:HB2	3:E:50:ARG:HH11	1.03	1.16
1:F:305:VAL:HG11	5:A:882:ARG:NH2	1.59	1.15
5:A:564:ARG:CG	5:A:565:PRO:HD2	1.76	1.15
2:G:66:LYS:H	2:G:66:LYS:HD2	1.00	1.14
1:K:49:ILE:HD11	1:K:53:ASP:HB3	1.28	1.14
1:K:49:ILE:CD1	1:K:54:GLU:N	1.92	1.14
1:K:504:THR:HG22	2:G:317:PRO:HG2	1.24	1.14
2:G:236:ARG:CD	2:G:365:GLY:OXT	1.96	1.14
3:E:178:LEU:CD2	4:B:477:THR:HG21	1.78	1.14
4:C:1171:THR:HG23	4:C:1172:PRO:HD2	1.29	1.14
5:A:13:LEU:HD22	5:A:312:TYR:HA	1.24	1.14
3:E:180:MET:HE1	4:B:497:TYR:HD2	0.98	1.13
5:A:431:VAL:HG12	5:A:477:LYS:HB3	1.30	1.13
1:K:566:VAL:HG22	1:K:567:PRO:HD3	1.30	1.13
3:E:200:ASN:OD1	4:B:508:ARG:CD	1.97	1.13
4:C:862:LEU:H	4:B:443:ALA:N	1.05	1.13
4:C:1082:ARG:HD3	4:B:420:CYS:HB3	1.22	1.13
1:K:353:THR:CG2	2:H:61:LEU:HD22	1.80	1.12
3:E:178:LEU:HD13	4:B:481:TRP:CH2	1.76	1.12
5:A:828:LEU:HB2	5:A:888:CYS:HA	1.27	1.12
2:G:236:ARG:HD3	2:G:365:GLY:OXT	1.47	1.12
1:F:427:TYR:HB3	1:F:473:ILE:HD11	1.31	1.12
3:E:174:ASP:HB3	4:C:682:HIS:CD2	1.83	1.12
3:E:180:MET:HE1	4:B:497:TYR:CD2	1.74	1.12
5:A:497:ILE:HA	5:A:504:GLU:HA	1.22	1.12
1:K:145:ASP:HA	1:K:161:LYS:HA	1.27	1.12
1:K:517:GLU:HG3	2:G:313:TYR:OH	1.49	1.12
3:E:258:ASN:ND2	4:C:1010:ASN:HD21	1.47	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:225:ASP:HB2	5:A:280:ASP:HB3	1.20	1.12
1:K:213:GLN:HB3	1:K:675:PRO:HD2	1.18	1.11
3:E:178:LEU:HD11	4:B:481:TRP:CH2	1.70	1.11
3:E:258:ASN:ND2	4:C:1010:ASN:ND2	1.96	1.11
5:A:564:ARG:HG2	5:A:565:PRO:CD	1.80	1.11
1:F:357:TRP:HA	1:F:475:SER:HA	1.26	1.11
3:E:185:HIS:CE1	4:B:500:SER:CB	2.19	1.11
3:E:178:LEU:HD13	4:B:481:TRP:HH2	0.94	1.11
4:B:1056:TRP:HB2	4:B:1061:PRO:HA	1.32	1.11
1:K:504:THR:HB	2:G:317:PRO:CD	1.80	1.11
3:E:177:GLN:HB3	4:B:497:TYR:CD1	1.78	1.11
5:A:64:GLN:HA	5:A:169:GLY:HA3	1.30	1.11
1:K:101:VAL:HG22	1:F:265:VAL:HG21	1.31	1.10
3:E:201:ARG:NH2	4:B:725:ASN:HA	1.65	1.10
5:A:115:VAL:HG11	5:A:136:LEU:HA	1.29	1.10
2:I:71:HIS:CG	1:F:581:TYR:HB3	1.78	1.10
1:K:55:THR:HG21	1:K:147:TYR:HB3	1.22	1.09
4:C:494:THR:HB	4:C:1270:VAL:HB	1.28	1.09
2:H:1:MET:HB3	2:H:71:HIS:HA	1.22	1.09
4:B:717:SER:HB3	4:B:744:ASP:HA	1.18	1.09
1:F:375:PRO:HD2	1:F:499:SER:HB2	1.09	1.09
1:F:506:LYS:HE3	1:F:506:LYS:HA	1.17	1.09
4:C:268:ILE:HG12	4:C:304:ILE:HG12	1.35	1.09
1:K:101:VAL:HG11	1:F:265:VAL:CG1	1.83	1.09
1:K:650:LYS:HD2	1:F:299:GLU:HB3	1.24	1.09
4:B:636:LEU:HD12	4:B:648:ALA:HB2	1.18	1.09
5:A:372:LYS:HB2	5:A:375:LEU:HB2	1.18	1.09
4:C:1088:ASN:CG	4:B:280:VAL:HA	1.45	1.08
2:H:3:VAL:HB	2:H:56:GLY:HA3	1.34	1.08
2:H:180:VAL:HG22	2:H:245:PRO:HD3	1.35	1.08
3:E:258:ASN:CG	4:C:1010:ASN:ND2	2.04	1.08
1:K:430:LEU:HD13	1:K:446:THR:HG21	1.35	1.08
5:A:1198:ILE:HG13	5:A:1214:LEU:HD21	1.27	1.08
3:E:179:LEU:HD21	3:E:212:MET:HB3	1.33	1.08
3:E:184:GLY:C	4:B:500:SER:HG	1.51	1.08
4:C:1175:ILE:HG12	4:C:1176:PRO:HD2	1.19	1.07
5:A:515:PHE:HB2	5:A:576:SER:HA	1.27	1.07
1:K:391:SER:HA	2:H:277:THR:N	1.63	1.07
5:A:1098:ILE:HG12	5:A:1118:VAL:HG22	1.31	1.07
1:K:581:TYR:O	2:G:69:PRO:O	1.72	1.07
2:I:71:HIS:CD2	1:F:581:TYR:CB	2.27	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:841:ASP:HB3	4:C:1005:ASN:HB3	1.35	1.07
5:A:940:LEU:HA	5:A:952:PRO:HD2	1.31	1.07
1:K:213:GLN:HB2	1:K:674:ALA:HB1	1.29	1.07
3:E:201:ARG:HH22	4:B:724:PRO:C	1.55	1.07
5:A:413:MET:HA	5:A:413:MET:CE	1.84	1.07
1:K:391:SER:HA	2:H:276:LEU:C	1.70	1.07
4:C:502:ASN:HB2	4:C:1262:TYR:HA	1.36	1.07
1:K:505:VAL:HG12	2:G:313:TYR:CB	1.84	1.06
5:A:6:GLY:HA3	5:A:336:SER:HB3	1.32	1.06
1:K:203:VAL:HG11	1:K:207:GLU:HA	1.38	1.06
3:E:174:ASP:HB3	4:C:682:HIS:HD2	0.96	1.06
4:C:394:LEU:HD22	4:C:395:PRO:HD3	1.31	1.06
1:K:368:VAL:HB	1:K:468:LEU:HB3	1.34	1.06
1:K:566:VAL:CG2	1:K:567:PRO:HD3	1.86	1.06
1:F:98:GLU:HG2	1:F:99:PRO:HD3	1.33	1.06
3:E:258:ASN:O	4:C:854:ARG:NH2	1.87	1.06
4:C:860:PRO:HD2	4:B:439:MET:HG2	1.37	1.06
1:K:650:LYS:HD2	1:F:299:GLU:CB	1.86	1.06
2:I:73:CYS:N	1:F:581:TYR:CB	2.16	1.06
2:I:313:TYR:CZ	1:F:505:VAL:HG11	1.91	1.06
1:F:305:VAL:HG11	5:A:882:ARG:HH22	1.12	1.06
4:C:713:TRP:CD2	4:C:714:PRO:HD2	1.89	1.06
1:K:101:VAL:CG2	1:F:265:VAL:CG2	2.33	1.06
3:E:178:LEU:HD23	4:B:477:THR:HG21	1.34	1.06
5:A:1138:ILE:H	5:A:1138:ILE:HD12	1.20	1.06
1:K:374:ALA:HB1	1:K:375:PRO:HD2	1.37	1.05
3:E:201:ARG:NH2	4:B:725:ASN:N	2.03	1.05
4:C:1082:ARG:HA	4:B:414:PRO:O	1.57	1.05
4:C:1082:ARG:CA	4:B:414:PRO:O	2.03	1.05
1:K:225:ASP:HA	1:K:230:ARG:HE	1.19	1.05
3:E:50:ARG:HB2	3:E:50:ARG:NH1	1.72	1.05
1:K:328:ILE:HG22	1:K:334:LEU:HD22	1.37	1.05
1:K:650:LYS:CE	1:F:300:ILE:HD13	1.83	1.05
3:E:142:ARG:HB3	3:E:142:ARG:HH11	1.17	1.05
5:A:1216:LEU:HD12	5:A:1216:LEU:H	1.18	1.04
2:I:71:HIS:CG	1:F:581:TYR:CB	2.34	1.04
5:A:9:LEU:HA	5:A:315:ALA:H	1.22	1.04
1:K:485:GLN:NE2	1:F:436:SER:O	1.90	1.04
4:C:833:VAL:CG1	4:C:834:PRO:HD2	1.87	1.04
4:B:303:ARG:HG2	4:B:1209:LEU:HA	1.40	1.04
4:B:1171:THR:HG23	4:B:1172:PRO:HD2	1.36	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:197:THR:HB	1:F:563:PRO:O	1.58	1.04
1:K:210:CYS:SG	1:K:211:PRO:CD	2.46	1.04
1:K:272:PRO:HB3	1:K:277:PRO:HA	1.39	1.04
3:E:258:ASN:C	4:C:854:ARG:HH22	1.43	1.04
3:E:259:HIS:N	4:C:854:ARG:HH22	1.56	1.04
1:K:506:LYS:CG	2:G:313:TYR:CD2	2.36	1.03
2:H:244:THR:HG22	2:H:247:ARG:HG2	1.34	1.03
3:E:180:MET:HE2	4:B:497:TYR:HD2	1.22	1.03
1:K:362:ARG:HG2	1:K:486:PRO:HA	1.38	1.03
4:C:492:THR:HG23	4:C:1274:VAL:HG22	1.41	1.03
4:C:602:GLY:H	4:C:832:GLN:HA	1.17	1.03
4:B:580:LYS:HA	4:B:580:LYS:HE3	1.38	1.03
4:B:696:PRO:HG3	4:B:703:ARG:HD3	1.38	1.03
4:C:713:TRP:CE3	4:C:714:PRO:HD3	1.92	1.03
4:B:546:ILE:HG21	4:B:822:ILE:HD11	1.40	1.03
5:A:1126:ILE:HG13	5:A:1147:VAL:HG22	1.36	1.03
3:E:201:ARG:HH21	4:B:725:ASN:HA	0.86	1.03
5:A:851:ILE:HD12	5:A:851:ILE:H	1.21	1.03
1:K:98:GLU:HB3	1:K:168:PRO:HD2	1.37	1.03
2:I:3:VAL:HG11	2:I:58:VAL:HG12	1.40	1.03
2:I:69:PRO:HB3	1:F:583:VAL:O	1.59	1.03
1:F:384:GLY:HA2	1:F:442:ILE:HG13	1.41	1.03
1:K:352:ASN:ND2	2:H:64:LYS:CB	2.21	1.02
1:K:505:VAL:HG12	2:G:313:TYR:HB3	1.04	1.02
1:K:650:LYS:NZ	1:F:300:ILE:HG12	1.73	1.02
4:C:1082:ARG:HG3	4:B:413:THR:O	1.59	1.02
1:K:137:TYR:HA	1:K:140:LEU:HD13	1.37	1.02
1:K:490:ASP:OD2	1:F:436:SER:N	1.92	1.02
1:K:505:VAL:HB	2:G:313:TYR:HD1	0.87	1.02
5:A:165:GLU:HG2	5:A:197:LYS:HB3	1.39	1.02
5:A:628:GLU:HA	5:A:632:LEU:HG	1.41	1.02
1:K:581:TYR:CD1	2:G:73:CYS:N	2.26	1.02
4:B:375:HIS:HA	4:B:1259:ARG:HB3	1.39	1.02
3:E:178:LEU:CD2	4:B:481:TRP:CH2	2.41	1.02
3:E:258:ASN:HD21	4:C:1010:ASN:ND2	1.54	1.01
5:A:413:MET:HA	5:A:413:MET:HE3	1.08	1.01
5:A:948:ARG:HA	5:A:959:PRO:HA	1.40	1.01
1:K:101:VAL:CG1	1:F:265:VAL:HG11	1.91	1.01
1:K:197:THR:HG21	1:F:563:PRO:HB3	1.24	1.01
4:B:434:PHE:H	4:B:450:VAL:HA	1.25	1.01
4:C:543:LEU:HA	4:C:546:ILE:HG22	1.41	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1241:LYS:HA	5:A:1246:THR:HA	1.39	1.01
1:K:57:VAL:HG11	1:K:62:ALA:HB3	1.42	1.00
3:E:185:HIS:N	4:B:500:SER:OG	1.93	1.00
3:E:281:MET:HA	3:E:281:MET:HE2	1.43	1.00
5:A:770:ARG:HB2	5:A:862:ASN:HA	1.41	1.00
1:K:71:ILE:HD11	1:K:100:LEU:HD11	1.41	1.00
3:E:3:ARG:HA	3:E:300:GLN:HB2	1.43	1.00
3:E:196:GLN:OE1	4:B:508:ARG:HD2	1.60	1.00
3:E:201:ARG:NH2	4:B:725:ASN:CA	2.20	1.00
4:C:577:ILE:HD13	4:C:627:TRP:HB3	1.43	1.00
4:C:731:ASN:HB2	4:C:736:PRO:HA	1.43	1.00
1:K:581:TYR:O	2:G:71:HIS:HB3	1.55	1.00
1:K:650:LYS:HE2	1:F:300:ILE:CA	1.91	1.00
4:C:833:VAL:HG12	4:C:834:PRO:HD2	1.40	1.00
1:K:490:ASP:OD2	1:F:436:SER:OG	1.79	1.00
5:A:1262:ASP:HB3	5:A:1278:ILE:HB	1.44	1.00
2:G:220:VAL:HG13	2:G:264:ILE:HD12	1.43	0.99
4:B:504:LEU:HB3	4:B:1264:THR:HG22	1.40	0.99
3:E:2:ALA:HA	3:E:299:SER:HA	1.40	0.99
3:E:170:MET:HG2	3:E:211:ARG:HB3	1.42	0.99
1:K:49:ILE:HG12	1:K:53:ASP:O	0.81	0.99
1:K:210:CYS:HG	1:K:211:PRO:HD2	1.17	0.99
1:K:517:GLU:CB	2:G:313:TYR:CZ	2.42	0.99
1:K:506:LYS:HB2	2:G:312:ARG:C	1.83	0.99
4:C:810:TYR:HA	4:C:814:LEU:HD23	1.44	0.99
5:A:616:ILE:HB	5:A:651:LEU:HB2	1.41	0.99
1:K:402:ILE:HG13	1:K:424:VAL:HG22	1.44	0.99
2:I:337:PRO:HD2	2:I:340:LEU:HD22	1.42	0.99
1:K:298:PRO:HA	1:K:301:ILE:HG12	1.43	0.99
1:K:650:LYS:HE3	1:F:300:ILE:HD11	1.44	0.99
4:B:1116:GLN:HB3	4:B:1172:PRO:HA	1.44	0.99
1:K:101:VAL:HG21	1:F:265:VAL:CG2	1.92	0.99
1:K:450:TYR:CE1	2:H:62:GLN:CG	2.46	0.99
3:E:106:VAL:CG2	4:B:944:PRO:HD3	1.76	0.98
3:E:177:GLN:CB	4:B:497:TYR:CD1	2.38	0.98
4:C:860:PRO:HD2	4:B:439:MET:CG	1.92	0.98
2:G:66:LYS:HD2	2:G:66:LYS:N	1.79	0.98
5:A:419:GLN:HG2	5:A:709:ILE:HA	1.40	0.98
1:K:352:ASN:CG	2:H:64:LYS:HB2	1.83	0.98
1:K:450:TYR:CD1	2:H:62:GLN:CG	2.46	0.98
2:I:313:TYR:CZ	1:F:505:VAL:CG1	2.47	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:404:PHE:HA	1:K:422:ALA:HA	1.46	0.97
1:F:303:SER:HB3	1:F:515:PRO:HG2	1.43	0.97
5:A:279:LEU:HB3	5:A:361:VAL:HG22	1.46	0.97
3:E:180:MET:SD	4:B:497:TYR:CD2	2.52	0.97
1:K:506:LYS:HB2	2:G:312:ARG:N	1.79	0.97
4:C:1035:TYR:HA	4:C:1038:PHE:HB2	1.47	0.97
1:K:57:VAL:HG23	1:K:63:LEU:HD23	1.47	0.97
1:K:212:MET:CE	1:K:212:MET:HA	1.95	0.97
1:F:506:LYS:HA	1:F:506:LYS:CE	1.94	0.97
4:B:691:ILE:H	4:B:691:ILE:HD12	1.30	0.97
5:A:742:ALA:HA	5:A:787:ILE:HB	1.45	0.97
1:K:326:LEU:HB3	1:K:334:LEU:HD11	1.45	0.97
5:A:456:LEU:HD12	5:A:457:PRO:HD2	1.46	0.97
5:A:1036:VAL:HG22	5:A:1096:ALA:HB2	1.44	0.97
2:H:251:HIS:HB2	2:H:254:LEU:HB2	1.47	0.97
5:A:171:LYS:HB3	5:A:190:LYS:HB3	1.47	0.97
1:F:275:SER:HA	1:F:651:LEU:HD11	1.47	0.96
1:F:579:THR:HA	1:F:584:ARG:HH22	1.30	0.96
5:A:242:VAL:HB	5:A:248:ILE:HG23	1.43	0.96
2:I:187:ASP:OD1	2:I:188:PRO:HD2	1.65	0.96
1:K:408:ILE:HG21	1:K:418:GLN:HE21	1.31	0.96
1:K:650:LYS:HE3	1:F:300:ILE:HD13	1.44	0.96
2:I:73:CYS:SG	1:F:581:TYR:CE2	2.56	0.96
5:A:1142:ASP:HB3	5:A:1182:VAL:HG11	1.47	0.96
2:G:292:LEU:HD21	2:G:328:MET:HA	1.47	0.96
3:E:86:TRP:HZ3	4:B:859:GLN:NE2	1.52	0.96
3:E:106:VAL:HB	4:B:942:GLN:O	1.64	0.96
4:B:852:GLN:HA	4:B:995:THR:HA	1.48	0.96
1:K:508:ALA:HB2	2:G:312:ARG:HA	1.45	0.96
1:K:428:VAL:HG13	1:K:448:LEU:HD13	1.48	0.96
3:E:106:VAL:CG2	4:B:944:PRO:N	2.29	0.96
1:K:506:LYS:NZ	1:K:517:GLU:HG3	1.79	0.95
1:F:389:GLU:HB2	1:F:392:TRP:HB3	1.48	0.95
3:E:180:MET:HE2	4:B:497:TYR:CD2	1.98	0.95
1:K:508:ALA:CA	2:G:312:ARG:HD2	1.94	0.95
2:I:180:VAL:HG22	2:I:244:THR:HA	1.48	0.95
3:E:246:ASP:HB3	3:E:249:GLU:HB3	1.48	0.95
1:K:504:THR:HG22	2:G:317:PRO:HG3	0.97	0.95
3:E:177:GLN:HB3	4:B:497:TYR:CG	2.00	0.95
4:C:1085:PHE:CE2	4:B:285:PHE:HA	2.01	0.95
4:C:1083:ILE:HG12	4:C:1094:ILE:HG13	1.48	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1111:PRO:HG2	4:B:1114:LEU:HB2	1.46	0.95
5:A:440:ASP:HB3	5:A:639:MET:HE3	1.49	0.95
4:C:1082:ARG:CG	4:B:413:THR:O	2.14	0.95
5:A:46:LEU:HD11	5:A:58:GLN:HB2	1.47	0.95
2:I:50:VAL:HG22	2:I:57:VAL:HG22	1.48	0.95
2:I:330:GLN:HB3	2:I:334:VAL:HG13	1.45	0.95
1:K:450:TYR:CE1	2:H:62:GLN:CD	2.34	0.95
1:K:517:GLU:CG	2:G:313:TYR:HE2	1.66	0.95
4:C:352:LEU:HD22	4:C:955:LEU:HB3	1.48	0.95
1:K:504:THR:HG21	2:G:317:PRO:CD	1.96	0.95
1:F:282:LYS:HD3	1:F:642:ALA:HB2	1.49	0.95
1:F:346:GLN:HA	1:F:360:ASN:HA	1.45	0.95
4:B:1156:TYR:HB2	4:B:1194:PRO:HG2	1.45	0.94
1:F:51:ILE:HA	1:F:64:ARG:HD3	1.47	0.94
4:C:1241:PRO:HG2	4:C:1244:GLN:HB2	1.47	0.94
5:A:483:LEU:HA	5:A:529:VAL:HG22	1.50	0.94
1:K:490:ASP:HB3	1:F:436:SER:HB3	0.96	0.94
1:K:508:ALA:HB3	2:G:312:ARG:CB	1.96	0.94
1:F:301:ILE:HD13	1:F:546:ILE:HG13	1.49	0.94
1:K:325:THR:HA	1:F:442:ILE:HD11	1.50	0.94
3:E:201:ARG:HH21	4:B:725:ASN:N	1.62	0.94
1:K:508:ALA:CB	2:G:312:ARG:HD2	1.98	0.94
1:K:352:ASN:OD1	2:H:64:LYS:HD2	1.67	0.94
1:K:506:LYS:CG	2:G:313:TYR:CB	2.42	0.94
5:A:13:LEU:HA	5:A:313:GLN:HG3	1.47	0.94
1:K:49:ILE:HD13	1:K:53:ASP:C	1.76	0.94
1:K:153:ARG:HB2	1:K:153:ARG:HH11	1.29	0.94
3:E:138:ARG:NH1	5:A:212:TRP:O	2.00	0.94
4:B:608:ILE:HD12	4:B:879:ALA:HB2	1.50	0.94
4:C:1088:ASN:CG	4:B:280:VAL:CA	2.29	0.94
1:K:49:ILE:HD13	1:K:54:GLU:H	1.26	0.93
1:K:584:ARG:NE	2:G:70:HIS:NE2	2.15	0.93
2:I:288:GLY:HA2	2:I:291:LYS:HE3	1.50	0.93
1:F:547:ALA:HB1	1:F:604:ILE:HA	1.49	0.93
4:B:751:THR:HG21	4:B:898:ASN:HD22	1.32	0.93
1:K:302:ALA:HB1	1:K:625:ILE:HG12	1.47	0.93
2:G:141:MET:HA	2:G:147:SER:HB3	1.49	0.93
1:F:505:VAL:HB	1:F:510:VAL:HG11	1.48	0.93
4:B:1230:GLU:HB2	4:B:1250:VAL:HG11	1.50	0.93
2:H:48:ALA:HB1	2:H:57:VAL:HG11	1.49	0.93
1:K:375:PRO:HB3	1:K:454:PRO:HD3	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:243:VAL:HA	2:H:349:PHE:HB2	1.50	0.93
5:A:15:SER:HB2	5:A:358:PRO:HB2	1.51	0.93
5:A:1156:PHE:HA	5:A:1165:ILE:HA	1.50	0.93
3:E:259:HIS:CE1	4:C:854:ARG:HE	1.82	0.93
2:H:20:GLU:HG2	2:H:22:ARG:HH11	1.33	0.93
4:C:1085:PHE:CD2	4:B:285:PHE:HA	2.04	0.93
5:A:609:GLY:H	5:A:659:HIS:HB2	1.33	0.93
1:F:98:GLU:HG2	1:F:99:PRO:CD	1.98	0.92
2:I:313:TYR:CD1	1:F:505:VAL:CG1	2.43	0.92
4:C:461:ILE:HA	4:C:464:ARG:HD2	1.51	0.92
1:K:101:VAL:HG11	1:F:265:VAL:HG11	0.95	0.92
1:K:101:VAL:HG21	1:F:265:VAL:HG21	1.47	0.92
1:K:371:ASP:HB2	1:K:466:TYR:H	1.34	0.92
1:K:55:THR:HA	1:K:63:LEU:HD22	1.49	0.92
3:E:259:HIS:HE1	4:C:854:ARG:NE	1.47	0.92
5:A:1044:ILE:HB	5:A:1087:TRP:HB2	1.52	0.92
3:E:142:ARG:HB3	3:E:142:ARG:NH1	1.85	0.92
3:E:243:ARG:HG3	3:E:246:ASP:HB2	1.52	0.92
4:C:237:ALA:HB2	4:C:247:LEU:HB3	1.52	0.92
2:G:141:MET:HA	2:G:147:SER:CB	1.98	0.92
2:I:127:SER:HA	2:I:364:LEU:HA	1.52	0.92
3:E:201:ARG:NH2	4:B:724:PRO:O	1.99	0.92
4:C:1085:PHE:HB2	4:B:285:PHE:CD1	2.04	0.92
5:A:400:TYR:HA	5:A:775:ILE:HG22	1.49	0.92
5:A:1068:VAL:HA	5:A:1071:ALA:HB2	1.50	0.92
1:K:505:VAL:CB	2:G:313:TYR:CD1	2.53	0.91
4:B:1094:ILE:HB	4:B:1104:PHE:HE1	1.35	0.91
1:K:405:GLN:HB2	1:K:421:GLN:HB2	1.52	0.91
1:K:613:GLN:HE22	2:G:7:ASN:HD21	0.98	0.91
1:F:375:PRO:CD	1:F:499:SER:HB2	1.98	0.91
4:C:1211:CYS:HA	4:C:1225:LYS:HG3	1.51	0.91
5:A:1084:LYS:HB2	5:A:1086:GLU:HG3	1.53	0.91
1:K:344:LEU:HD21	1:K:480:PRO:HB3	1.53	0.91
1:K:650:LYS:CE	1:F:300:ILE:N	2.32	0.91
4:C:1230:GLU:HB2	4:C:1250:VAL:HG11	1.52	0.91
5:A:1011:LEU:HA	5:A:1014:LYS:HD3	1.51	0.91
1:K:374:ALA:HB1	1:K:375:PRO:CD	1.99	0.91
1:K:471:THR:HA	1:K:488:VAL:HG13	1.52	0.91
4:C:1088:ASN:OD1	4:B:280:VAL:CA	2.16	0.91
5:A:950:ARG:HG3	5:A:957:ASP:HB2	1.51	0.91
1:F:370:LEU:HD21	1:F:468:LEU:HB2	1.52	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:602:GLY:N	4:C:832:GLN:HA	1.85	0.91
4:B:1212:THR:HG23	4:B:1225:LYS:HB3	1.49	0.91
5:A:1075:GLN:HB2	5:A:1092:VAL:HB	1.51	0.91
1:F:51:ILE:HG13	1:F:64:ARG:HB3	1.50	0.91
2:G:5:LEU:HD22	2:G:6:PRO:HD3	1.49	0.90
4:C:748:ALA:HA	4:C:813:GLN:HB3	1.53	0.90
1:K:391:SER:HB3	2:H:278:GLY:C	1.91	0.90
2:I:71:HIS:ND1	1:F:582:GLY:CA	2.24	0.90
1:F:334:LEU:HD23	1:F:368:VAL:HA	1.49	0.90
5:A:1223:PRO:HG2	5:A:1226:GLU:HB3	1.50	0.90
1:K:299:GLU:CD	1:K:299:GLU:H	1.72	0.90
1:K:391:SER:O	2:H:279:ASN:N	1.79	0.90
1:F:568:ILE:HD11	1:F:627:LEU:HD13	1.52	0.90
3:E:281:MET:HA	3:E:281:MET:CE	2.00	0.90
4:B:1083:ILE:HG12	4:B:1094:ILE:HG13	1.52	0.90
2:G:184:MET:HA	2:G:261:THR:HA	1.52	0.90
1:F:305:VAL:HG12	5:A:882:ARG:NH2	1.84	0.90
1:K:434:ASP:HA	1:K:441:SER:HA	1.53	0.90
3:E:192:TYR:OH	4:B:471:ARG:CG	2.19	0.90
3:E:185:HIS:ND1	4:B:500:SER:HB3	1.87	0.89
1:K:49:ILE:HD11	1:K:53:ASP:CB	2.02	0.89
4:C:862:LEU:H	4:B:443:ALA:CA	1.84	0.89
4:C:1082:ARG:HB3	4:B:415:ASN:CA	1.87	0.89
4:B:841:ASP:HA	4:B:1004:TYR:HD2	1.37	0.89
5:A:19:GLU:HA	5:A:276:VAL:H	1.36	0.89
5:A:830:THR:HG21	5:A:848:CYS:HB3	1.54	0.89
1:K:504:THR:HB	2:G:317:PRO:HD3	0.90	0.89
1:F:210:CYS:SG	1:F:211:PRO:HD2	2.11	0.89
5:A:527:PRO:HB2	5:A:530:ILE:HG13	1.54	0.89
1:K:505:VAL:CG1	2:G:313:TYR:HB3	1.99	0.89
1:K:197:THR:HG23	1:F:563:PRO:HB3	1.52	0.89
1:F:210:CYS:SG	1:F:211:PRO:CD	2.61	0.89
4:C:982:MET:HB2	4:C:985:GLU:HG3	1.55	0.89
4:B:690:ASN:HB3	4:B:693:LEU:HD12	1.54	0.89
4:B:717:SER:CB	4:B:744:ASP:HA	2.02	0.89
4:B:892:PRO:HD2	4:B:895:LEU:HD22	1.52	0.89
1:F:213:GLN:HB2	1:F:674:ALA:HB1	1.55	0.89
4:C:1188:HIS:HA	4:C:1220:ILE:HB	1.52	0.89
5:A:1042:LEU:HB2	5:A:1089:LEU:HB2	1.53	0.89
1:K:504:THR:HG22	2:G:317:PRO:CD	1.85	0.89
3:E:86:TRP:CH2	4:B:859:GLN:OE1	2.25	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:859:GLN:NE2	4:B:440:MET:N	1.81	0.89
4:B:482:ALA:HB2	4:B:726:VAL:HG21	1.54	0.89
1:K:490:ASP:HB2	1:F:436:SER:HB3	1.55	0.88
3:E:192:TYR:CE2	4:B:471:ARG:CA	2.55	0.88
2:I:318:GLY:HA3	2:I:322:GLY:HA3	1.53	0.88
4:C:1083:ILE:N	4:B:414:PRO:O	2.05	0.88
1:K:324:ARG:HH21	1:F:436:SER:HA	1.39	0.88
1:F:53:ASP:OD1	5:A:345:TRP:HB2	1.73	0.88
3:E:180:MET:H	4:B:497:TYR:HH	0.92	0.88
4:C:860:PRO:CD	4:B:439:MET:HG2	2.02	0.88
4:B:992:PRO:HA	4:B:995:THR:HG23	1.56	0.88
3:E:273:MET:O	3:E:329:GLY:HA2	1.73	0.88
4:B:1057:SER:HB3	4:B:1060:ALA:HB3	1.55	0.88
1:K:47:PRO:HA	1:K:148:VAL:HA	1.54	0.88
1:K:387:TYR:CZ	1:F:436:SER:HB2	2.09	0.88
2:G:198:GLU:HA	2:G:202:ARG:HG3	1.53	0.88
4:C:1171:THR:HG23	4:C:1172:PRO:CD	2.04	0.88
1:K:197:THR:HG21	1:F:563:PRO:CA	2.03	0.88
3:E:231:GLN:HA	3:E:259:HIS:HB3	1.54	0.88
4:C:1075:HIS:HB2	4:C:1108:TRP:CD1	2.09	0.88
1:F:279:LEU:HA	1:F:282:LYS:HE2	1.55	0.87
3:E:192:TYR:HE2	4:B:471:ARG:CA	1.87	0.87
4:B:602:GLY:HA2	4:B:833:VAL:HG13	1.55	0.87
1:K:352:ASN:HB3	2:H:64:LYS:HG3	0.88	0.87
3:E:331:GLN:HB2	3:E:404:ARG:HA	1.55	0.87
1:K:153:ARG:HB2	1:K:153:ARG:NH1	1.89	0.87
5:A:372:LYS:HB2	5:A:375:LEU:CB	2.01	0.87
1:F:344:LEU:HD21	1:F:480:PRO:HB3	1.56	0.87
1:F:375:PRO:HD2	1:F:499:SER:CB	2.02	0.87
5:A:100:ILE:HG12	5:A:133:LEU:HD13	1.57	0.87
5:A:552:TYR:HA	5:A:559:ILE:HG23	1.57	0.87
5:A:936:ILE:HG21	5:A:1008:ILE:HG13	1.55	0.87
2:I:72:ARG:C	1:F:581:TYR:CB	2.43	0.87
2:G:236:ARG:HD2	2:G:365:GLY:OXT	1.71	0.87
5:A:353:ILE:HG21	5:A:362:ASP:HB3	1.56	0.87
5:A:1156:PHE:HD2	5:A:1165:ILE:HG12	1.39	0.86
1:F:124:PHE:HD2	1:F:185:LEU:HD23	1.41	0.86
1:F:145:ASP:HA	1:F:161:LYS:HA	1.55	0.86
4:B:849:VAL:H	4:B:869:THR:H	1.21	0.86
1:K:504:THR:CG2	2:G:317:PRO:HG2	1.85	0.86
1:F:173:MET:HE1	1:F:174:TYR:HA	1.56	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:178:LEU:HD21	4:B:481:TRP:HZ2	1.10	0.86
4:C:263:CYS:O	4:C:263:CYS:SG	2.33	0.86
4:C:674:ARG:CZ	4:B:1275:PRO:O	2.24	0.86
5:A:5:TRP:HA	5:A:338:GLY:H	1.40	0.86
4:B:685:PRO:HG2	4:B:688:PHE:HB2	1.58	0.86
2:I:69:PRO:CB	1:F:583:VAL:O	2.24	0.86
2:G:68:LEU:HD12	2:G:69:PRO:HD2	1.55	0.86
3:E:340:CYS:HB3	3:E:354:GLN:HG3	1.56	0.86
3:E:178:LEU:CD2	4:B:477:THR:CG2	2.54	0.86
2:I:196:ARG:HG3	2:I:355:PRO:HB3	1.57	0.86
2:H:109:MET:HE2	2:H:129:VAL:HG13	1.56	0.86
3:E:106:VAL:HG21	4:B:944:PRO:N	1.91	0.86
5:A:511:SER:HB2	5:A:571:TYR:HA	1.55	0.86
5:A:778:ARG:HD2	5:A:778:ARG:O	1.73	0.86
5:A:948:ARG:CA	5:A:959:PRO:HA	2.06	0.86
1:K:450:TYR:HD1	2:H:62:GLN:CD	1.47	0.86
1:K:506:LYS:CE	2:G:310:LYS:HA	2.02	0.86
1:F:301:ILE:CD1	1:F:546:ILE:HG13	2.06	0.86
4:C:515:GLN:HG3	4:C:730:ALA:HB1	1.58	0.86
4:C:982:MET:HB2	4:C:985:GLU:CG	2.06	0.86
4:C:1175:ILE:HG12	4:C:1176:PRO:CD	2.06	0.86
5:A:1044:ILE:HD11	5:A:1089:LEU:HD11	1.56	0.86
2:H:247:ARG:HB3	2:H:348:LYS:HD2	1.55	0.86
5:A:688:SER:HA	5:A:691:LEU:HG	1.57	0.86
2:H:10:GLN:HA	2:H:46:GLY:HA3	1.58	0.85
1:F:431:TYR:HD2	1:F:444:ALA:HB2	1.41	0.85
4:C:303:ARG:HG2	4:C:1209:LEU:HA	1.57	0.85
4:C:862:LEU:H	4:B:443:ALA:H	1.23	0.85
4:C:1171:THR:CG2	4:C:1172:PRO:HD2	2.06	0.85
1:K:450:TYR:HE1	2:H:62:GLN:CB	1.88	0.85
1:K:506:LYS:CG	2:G:313:TYR:N	2.38	0.85
2:G:5:LEU:HD22	2:G:6:PRO:HD2	0.86	0.85
2:G:288:GLY:HA2	2:G:291:LYS:HE3	1.56	0.85
3:E:239:PHE:HB3	3:E:251:TRP:HB2	1.56	0.85
5:A:636:THR:HA	5:A:662:SER:HB3	1.59	0.85
1:K:102:VAL:HG21	1:K:148:VAL:HG11	1.58	0.85
5:A:743:ILE:HG13	5:A:752:LEU:HD13	1.57	0.85
1:K:391:SER:CB	2:H:278:GLY:C	2.41	0.85
1:K:506:LYS:HG2	2:G:310:LYS:HA	1.58	0.85
2:H:303:ASN:HD21	2:H:320:MET:HB3	1.41	0.85
5:A:5:TRP:HA	5:A:338:GLY:N	1.92	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:389:GLU:HB2	1:K:392:TRP:HB3	1.58	0.85
3:E:176:ASN:O	4:B:497:TYR:OH	1.92	0.85
3:E:192:TYR:HE2	4:B:471:ARG:HA	1.09	0.85
4:C:234:GLN:HG2	4:C:246:GLN:HB2	1.59	0.85
4:C:674:ARG:NH1	4:B:1275:PRO:C	2.29	0.85
4:B:1111:PRO:HG2	4:B:1114:LEU:CB	2.06	0.85
5:A:903:PHE:HB3	5:A:961:SER:HB3	1.59	0.85
3:E:181:ASN:OD1	4:B:477:THR:HB	1.75	0.85
4:C:860:PRO:CA	4:B:439:MET:O	2.24	0.85
1:K:581:TYR:O	2:G:71:HIS:CB	2.21	0.85
4:C:635:ALA:HA	4:C:638:LEU:HG	1.58	0.85
1:K:353:THR:CG2	2:H:61:LEU:CD2	2.55	0.84
1:F:198:LEU:HD11	1:F:222:GLN:HB3	1.56	0.84
1:K:352:ASN:CB	2:H:64:LYS:CG	2.40	0.84
3:E:174:ASP:CB	4:C:682:HIS:HD2	1.88	0.84
1:K:408:ILE:H	1:K:408:ILE:HD12	1.42	0.84
4:C:634:LEU:HD23	4:C:883:THR:HG23	1.57	0.84
4:C:1126:PHE:HA	4:C:1129:TRP:HD1	1.42	0.84
1:K:151:SER:HB3	1:F:119:GLU:HB3	1.56	0.84
4:C:1058:PRO:HG3	4:C:1182:VAL:HA	1.59	0.84
4:C:1082:ARG:CD	4:B:420:CYS:HB3	2.06	0.84
1:K:506:LYS:O	2:G:315:LEU:N	2.07	0.84
4:B:649:PHE:HA	4:B:705:TRP:HE1	1.41	0.84
3:E:106:VAL:HG23	4:B:944:PRO:HD3	0.86	0.84
4:C:295:PRO:HG3	4:C:404:SER:HB2	1.59	0.84
4:C:1212:THR:HG23	4:C:1225:LYS:HB3	1.60	0.84
4:B:600:TYR:CE2	4:B:830:PRO:HA	2.12	0.84
1:K:424:VAL:HG11	1:K:473:ILE:HD13	1.59	0.84
4:C:674:ARG:HG3	4:B:1275:PRO:OXT	1.78	0.84
4:C:983:LEU:HG	4:C:984:LEU:HG	1.56	0.84
4:C:1082:ARG:HD2	4:B:416:VAL:HA	1.58	0.84
5:A:535:GLN:HB2	5:A:537:LYS:HG2	1.57	0.84
1:K:43:PRO:N	1:K:104:THR:HA	1.92	0.84
1:K:101:VAL:HG22	1:F:265:VAL:CG2	2.01	0.84
1:F:336:MET:HG3	1:F:366:ARG:HG2	1.60	0.84
5:A:271:ARG:HB2	5:A:274:GLN:HB2	1.60	0.83
3:E:181:ASN:OD1	4:B:477:THR:CB	2.26	0.83
2:I:186:ARG:HB3	2:I:347:THR:HG21	1.59	0.83
1:F:305:VAL:CG1	5:A:882:ARG:HH21	1.90	0.83
4:B:823:ALA:HA	4:B:826:LEU:HD23	1.58	0.83
4:B:1069:ARG:HG2	4:B:1109:ILE:HG21	1.58	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:226:LYS:HD3	5:A:278:ARG:HG2	1.61	0.83
5:A:1045:PRO:HA	5:A:1086:GLU:HA	1.57	0.83
4:C:272:VAL:O	4:C:299:ALA:HA	1.77	0.83
4:C:1085:PHE:HB2	4:B:285:PHE:HD1	1.39	0.83
5:A:1199:ARG:HG2	5:A:1211:GLN:HG3	1.60	0.83
1:F:153:ARG:HH22	1:F:156:LEU:HD23	1.43	0.83
4:C:761:LEU:HD12	4:C:808:PRO:HB3	1.59	0.83
5:A:222:VAL:HG22	5:A:234:LEU:HG	1.60	0.83
5:A:1170:LYS:HG2	5:A:1185:VAL:HG23	1.58	0.83
3:E:90:ARG:O	3:E:90:ARG:HG3	1.78	0.83
4:C:1082:ARG:HA	4:B:414:PRO:C	1.98	0.83
4:C:1111:PRO:HG2	4:C:1114:LEU:HG	1.59	0.83
1:K:173:MET:HE1	1:K:174:TYR:HA	1.60	0.83
2:G:224:ASP:HB3	2:G:355:PRO:HG2	1.61	0.83
2:H:260:ALA:HB2	2:H:271:VAL:HG22	1.60	0.83
1:F:103:VAL:HB	1:F:164:PRO:HB2	1.60	0.83
5:A:519:ALA:HB2	5:A:554:VAL:HA	1.60	0.83
5:A:794:LEU:HD12	5:A:794:LEU:O	1.77	0.83
5:A:1103:ALA:HB2	5:A:1114:LEU:HD21	1.60	0.83
4:C:336:LYS:HB2	4:C:340:ASN:CB	2.09	0.83
4:C:380:GLN:HG3	4:C:388:GLY:HA2	1.61	0.83
4:C:1121:TYR:CZ	4:B:414:PRO:HB2	2.14	0.83
4:B:352:LEU:HB3	4:B:955:LEU:HB3	1.61	0.83
4:B:822:ILE:HG22	4:B:826:LEU:HD21	1.61	0.83
5:A:765:ARG:HB2	5:A:838:GLU:HG2	1.58	0.83
5:A:931:ASP:HB3	5:A:1015:TYR:CE2	2.12	0.83
5:A:1032:GLY:HA3	5:A:1040:CYS:HA	1.60	0.83
5:A:750:ARG:HG2	5:A:750:ARG:HH11	1.44	0.82
1:K:490:ASP:CG	1:F:436:SER:H	1.81	0.82
1:K:506:LYS:HE3	2:G:310:LYS:HA	1.61	0.82
2:H:260:ALA:CB	2:H:271:VAL:HG22	2.09	0.82
5:A:1154:MET:HB3	5:A:1201:VAL:HG11	1.61	0.82
2:I:73:CYS:H	1:F:581:TYR:HB2	1.45	0.82
2:I:313:TYR:CE1	1:F:505:VAL:HG11	2.05	0.82
4:B:578:LEU:HA	4:B:581:LEU:HD12	1.60	0.82
4:C:300:ALA:HB1	4:C:1185:SER:HB3	1.59	0.82
1:K:582:GLY:CA	2:G:70:HIS:HA	1.83	0.82
2:H:234:LYS:HA	2:H:238:TYR:CD2	2.14	0.82
3:E:192:TYR:CZ	4:B:471:ARG:HA	2.13	0.82
5:A:637:SER:HB3	5:A:656:PHE:HB2	1.61	0.82
5:A:1122:PRO:HB2	5:A:1151:TYR:HE1	1.45	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:187:LYS:HD3	1:K:228:LEU:HD11	1.61	0.82
2:H:299:VAL:HG13	2:H:320:MET:HG2	1.60	0.82
2:G:51:CYS:HB2	2:G:58:VAL:HG13	1.61	0.82
3:E:9:LYS:HB2	3:E:124:VAL:HG22	1.60	0.82
4:C:1156:TYR:HA	4:C:1194:PRO:O	1.77	0.82
4:B:503:ARG:HD3	4:B:1265:PRO:HG3	1.61	0.82
5:A:1073:ILE:HB	5:A:1076:VAL:HG22	1.61	0.82
2:G:26:TYR:HB3	2:G:42:MET:HB2	1.59	0.82
3:E:316:ILE:HG22	3:E:319:TRP:H	1.45	0.82
5:A:163:VAL:HG13	5:A:199:PHE:HB3	1.61	0.82
5:A:611:SER:HA	5:A:658:VAL:HG23	1.62	0.82
1:K:413:TRP:CD1	1:K:418:GLN:HB3	2.15	0.82
3:E:86:TRP:HZ3	4:B:859:GLN:CD	1.75	0.82
2:H:51:CYS:SG	2:H:54:CYS:N	2.53	0.82
1:F:282:LYS:CD	1:F:642:ALA:HB2	2.08	0.82
3:E:182:TYR:C	4:B:500:SER:HB3	2.00	0.82
4:C:1045:ILE:HD12	4:C:1199:ILE:HG23	1.62	0.82
4:B:836:VAL:HB	4:B:839:ASP:HB3	1.60	0.82
5:A:111:VAL:HA	5:A:138:ILE:H	1.43	0.82
5:A:509:ARG:HB3	5:A:545:SER:HB3	1.60	0.82
4:C:1175:ILE:HG13	4:C:1176:PRO:HD2	1.61	0.82
1:K:119:GLU:HA	1:K:122:ARG:HB3	1.62	0.81
1:K:352:ASN:CG	2:H:64:LYS:CG	2.48	0.81
4:C:853:SER:H	4:C:995:THR:HB	1.45	0.81
5:A:486:ASP:HB2	5:A:529:VAL:HG21	1.60	0.81
3:E:183:PHE:HB3	4:B:499:PRO:HA	0.84	0.81
1:K:506:LYS:CB	2:G:311:ILE:C	2.49	0.81
3:E:9:LYS:HA	3:E:124:VAL:HA	1.60	0.81
3:E:399:ASN:HA	3:E:402:TRP:HD1	1.45	0.81
4:C:268:ILE:HA	4:C:304:ILE:CA	2.09	0.81
4:C:573:PRO:HB2	4:C:627:TRP:HZ2	1.46	0.81
4:B:417:SER:HA	4:B:1217:PRO:CA	2.07	0.81
4:B:657:VAL:HG22	4:B:671:GLN:HG2	1.61	0.81
5:A:203:THR:HG23	5:A:206:VAL:HB	1.60	0.81
5:A:939:TYR:HA	5:A:953:LYS:HG2	1.63	0.81
5:A:1258:PRO:HB2	5:A:1261:TRP:HB2	1.62	0.81
1:K:387:TYR:HH	1:F:436:SER:CB	1.76	0.81
4:C:1110:PHE:HB2	4:C:1139:ILE:HD13	1.60	0.81
5:A:9:LEU:HA	5:A:315:ALA:N	1.94	0.81
5:A:66:LEU:HD23	5:A:121:GLY:HA2	1.62	0.81
1:K:353:THR:HG23	2:H:61:LEU:HD22	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:293:VAL:HG11	1:F:632:LYS:HG2	1.63	0.81
1:F:399:VAL:HA	1:F:472:PHE:HA	1.63	0.81
5:A:413:MET:HG2	5:A:725:ILE:HB	1.63	0.81
5:A:513:ALA:HB3	5:A:574:VAL:HA	1.62	0.81
1:K:50:ALA:H	1:K:56:SER:H	1.27	0.81
3:E:192:TYR:OH	4:B:471:ARG:CA	2.28	0.81
3:E:243:ARG:NH1	4:B:435:ASP:CG	2.33	0.81
4:C:268:ILE:CA	4:C:304:ILE:HA	2.07	0.81
5:A:45:PRO:HB2	5:A:54:ILE:HG12	1.63	0.81
5:A:832:PRO:HA	5:A:854:THR:HA	1.63	0.81
1:K:517:GLU:HG3	2:G:313:TYR:HE2	1.24	0.81
3:E:311:ALA:HA	3:E:314:ARG:HG3	1.60	0.81
5:A:588:LEU:HA	5:A:591:SER:HB3	1.61	0.81
1:K:352:ASN:CG	2:H:64:LYS:CB	2.48	0.81
4:C:1031:PHE:HA	4:C:1038:PHE:CE1	2.16	0.81
4:C:1121:TYR:CE2	4:B:414:PRO:HB2	2.16	0.81
1:K:514:VAL:HB	1:K:517:GLU:HG2	1.63	0.81
5:A:64:GLN:HA	5:A:169:GLY:CA	2.10	0.81
1:K:503:VAL:O	2:G:312:ARG:NH2	1.91	0.81
1:K:517:GLU:CG	2:G:313:TYR:OH	2.18	0.81
1:F:357:TRP:HA	1:F:475:SER:CA	2.11	0.81
5:A:322:LEU:HB3	5:A:326:TRP:CE3	2.16	0.81
1:K:213:GLN:HB2	1:K:674:ALA:CB	2.10	0.80
1:K:504:THR:CB	2:G:317:PRO:CD	2.34	0.80
1:F:357:TRP:CA	1:F:475:SER:HA	2.10	0.80
5:A:57:VAL:HB	5:A:173:LEU:HB3	1.63	0.80
1:K:406:SER:HB2	1:K:420:GLY:HA3	1.63	0.80
5:A:1122:PRO:HB2	5:A:1151:TYR:CE1	2.15	0.80
3:E:13:PHE:HB3	3:E:16:LEU:HB2	1.63	0.80
1:K:485:GLN:CD	1:F:436:SER:O	2.19	0.80
2:G:198:GLU:H	2:G:201:ALA:HB3	1.47	0.80
4:C:732:LEU:HB3	4:C:1011:VAL:HG11	1.63	0.80
5:A:628:GLU:HA	5:A:632:LEU:CG	2.10	0.80
1:K:583:VAL:HG21	2:G:67:HIS:C	2.00	0.80
4:B:259:ASP:HA	4:B:314:VAL:HG12	1.61	0.80
4:C:1049:ARG:HG3	4:C:1196:VAL:HG13	1.63	0.80
4:B:603:VAL:HG23	4:B:604:VAL:HG23	1.61	0.80
2:G:179:LEU:HB2	2:G:363:ILE:HG22	1.63	0.80
4:B:636:LEU:CD1	4:B:648:ALA:HB2	2.09	0.80
5:A:980:THR:HG23	5:A:1020:ARG:HB3	1.62	0.80
2:I:70:HIS:CD2	1:F:584:ARG:NH2	2.49	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:174:ILE:HG23	2:I:179:LEU:HB2	1.62	0.80
5:A:3:ASN:HA	5:A:8:ARG:HA	1.64	0.80
5:A:4:VAL:HB	5:A:340:ASN:HA	1.64	0.80
5:A:155:GLN:H	5:A:155:GLN:CD	1.81	0.80
1:K:71:ILE:O	1:K:71:ILE:HG22	1.80	0.80
2:G:244:THR:HB	2:G:247:ARG:HG2	1.62	0.80
2:G:5:LEU:CG	2:G:6:PRO:HD2	2.12	0.80
1:F:408:ILE:CD1	1:F:418:GLN:HG2	2.11	0.79
4:C:1076:ILE:HG12	4:C:1109:ILE:HB	1.64	0.79
4:B:339:LEU:HB2	4:B:353:MET:HG3	1.64	0.79
5:A:635:ILE:HG22	5:A:658:VAL:HG22	1.62	0.79
2:I:221:MET:HG2	2:I:358:ILE:HG12	1.63	0.79
3:E:174:ASP:CB	4:C:682:HIS:CD2	2.64	0.79
4:C:336:LYS:HB3	4:C:349:ALA:HB2	1.64	0.79
4:C:1085:PHE:CB	4:B:285:PHE:HD1	1.95	0.79
4:B:1074:VAL:HG22	4:B:1107:ASN:HB3	1.64	0.79
5:A:403:ASP:HB3	5:A:774:LEU:HD12	1.63	0.79
1:K:392:TRP:C	2:H:277:THR:O	2.19	0.79
1:K:450:TYR:CD1	2:H:62:GLN:HG2	2.16	0.79
1:K:450:TYR:HE1	2:H:62:GLN:CG	1.95	0.79
1:K:509:VAL:HA	2:G:312:ARG:NH2	1.96	0.79
1:F:633:THR:HA	1:F:636:ARG:HD2	1.63	0.79
5:A:187:LEU:HD12	5:A:191:ASP:HB3	1.64	0.79
1:K:323:VAL:HB	1:K:489:TRP:HB3	1.65	0.79
2:H:3:VAL:HB	2:H:56:GLY:CA	2.13	0.79
2:H:113:VAL:HG11	2:H:128:LEU:HD11	1.64	0.79
4:B:778:ASN:HD21	4:B:780:ARG:HG3	1.46	0.79
5:A:395:GLN:HA	5:A:739:LYS:O	1.82	0.79
5:A:525:ASP:HB2	5:A:556:ARG:HH21	1.47	0.79
5:A:1051:ASP:HB3	5:A:1105:VAL:HA	1.63	0.79
5:A:638:TYR:CD2	5:A:664:LEU:HD13	2.17	0.79
2:I:221:MET:HA	2:I:358:ILE:HA	1.62	0.79
5:A:631:ILE:HA	5:A:634:ASN:HD22	1.47	0.79
5:A:872:TYR:HE2	5:A:895:ALA:HB2	1.48	0.79
5:A:632:LEU:N	5:A:633:PRO:HD2	1.97	0.79
3:E:178:LEU:HD22	4:B:477:THR:HG21	1.65	0.79
3:E:258:ASN:HD21	4:C:1010:ASN:HD21	0.82	0.79
4:B:266:PHE:CD2	4:B:306:VAL:HG22	2.17	0.79
2:G:312:ARG:O	2:G:312:ARG:NH1	2.16	0.79
5:A:1197:TYR:HA	5:A:1213:PRO:HA	1.63	0.79
1:K:50:ALA:HA	1:K:57:VAL:HG22	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1101:MET:HB3	5:A:1114:LEU:HB2	1.64	0.79
1:K:223:LEU:HD23	1:K:224:PRO:HD2	1.65	0.78
1:K:370:LEU:HD12	1:K:403:VAL:HG13	1.65	0.78
4:C:265:SER:CB	4:C:308:THR:HA	2.13	0.78
4:C:306:VAL:HB	4:C:324:MET:HB3	1.65	0.78
4:C:807:THR:HG21	4:C:886:LEU:HA	1.64	0.78
4:C:1151:TYR:HD2	4:C:1181:MET:HG2	1.47	0.78
4:B:747:PRO:HG2	5:A:154:SER:N	1.97	0.78
1:K:48:TRP:HB3	1:K:63:LEU:HD13	1.64	0.78
1:K:435:SER:HB3	1:K:442:ILE:HB	1.64	0.78
2:G:84:ASP:OD2	2:G:84:ASP:N	2.12	0.78
4:C:378:PHE:HA	4:C:392:ARG:HA	1.64	0.78
5:A:1173:PHE:HA	5:A:1183:MET:HA	1.65	0.78
1:K:650:LYS:HE2	1:F:300:ILE:CG1	2.12	0.78
1:F:49:ILE:HB	1:F:66:MET:HG3	1.66	0.78
3:E:239:PHE:HB3	3:E:251:TRP:CB	2.13	0.78
5:A:106:TYR:HB2	5:A:109:GLU:HB2	1.64	0.78
4:B:328:THR:HG22	4:B:1148:LEU:HB2	1.64	0.78
4:B:426:CYS:HB3	4:B:1235:LEU:HB3	1.63	0.78
5:A:353:ILE:HB	5:A:371:ARG:HB2	1.66	0.78
2:G:239:ARG:HA	2:G:243:VAL:HG23	1.66	0.78
1:K:383:GLY:HA2	1:K:443:ILE:HB	1.64	0.78
4:C:1162:LEU:CD1	4:C:1162:LEU:H	1.97	0.78
5:A:950:ARG:HA	5:A:957:ASP:HA	1.65	0.78
1:K:55:THR:HG21	1:K:147:TYR:CG	2.17	0.78
1:K:57:VAL:CG1	1:K:62:ALA:HB3	2.14	0.78
3:E:233:THR:HG21	3:E:256:SER:HB3	1.64	0.78
4:B:556:ILE:HD11	4:B:884:VAL:HG13	1.64	0.78
5:A:423:ARG:HA	5:A:697:VAL:HA	1.65	0.78
2:G:303:ASN:HD21	2:G:320:MET:HB3	1.48	0.78
4:C:237:ALA:HA	4:C:247:LEU:HD22	1.65	0.78
4:C:352:LEU:O	4:C:954:SER:HA	1.83	0.78
5:A:423:ARG:HB2	5:A:697:VAL:HG22	1.65	0.78
2:I:339:ALA:HA	2:I:342:MET:HG2	1.65	0.78
1:F:211:PRO:HB2	1:F:214:SER:HB2	1.66	0.78
4:B:1084:SER:HB2	4:B:1101:MET:HE1	1.64	0.78
5:A:564:ARG:HG2	5:A:565:PRO:HD2	0.89	0.78
5:A:1138:ILE:HD12	5:A:1138:ILE:N	1.99	0.78
1:K:559:ASP:HA	1:K:597:SER:HB3	1.65	0.78
1:F:224:PRO:HB2	1:F:227:SER:HB2	1.66	0.78
5:A:585:HIS:HA	5:A:588:LEU:HG	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:837:LEU:HD23	5:A:837:LEU:O	1.84	0.78
1:K:212:MET:HA	1:K:212:MET:HE3	1.62	0.77
3:E:86:TRP:CH2	4:B:859:GLN:CD	2.57	0.77
4:B:806:MET:HB3	4:B:891:TYR:CZ	2.18	0.77
4:B:1082:ARG:H	4:B:1095:ARG:HB3	1.49	0.77
1:K:362:ARG:CG	1:K:486:PRO:HA	2.15	0.77
1:K:517:GLU:HB3	2:G:313:TYR:CZ	2.12	0.77
1:K:583:VAL:HG21	2:G:67:HIS:O	1.84	0.77
3:E:229:HIS:CE1	3:E:232:ASN:HB2	2.18	0.77
5:A:225:ASP:HB2	5:A:280:ASP:CB	2.10	0.77
5:A:849:VAL:HG12	5:A:872:TYR:HA	1.66	0.77
1:K:391:SER:CA	2:H:276:LEU:C	2.51	0.77
1:K:506:LYS:HB3	2:G:311:ILE:C	2.05	0.77
2:H:25:ILE:HG12	2:H:43:MET:HG2	1.66	0.77
2:H:261:THR:O	2:H:269:PRO:HB3	1.85	0.77
2:G:10:GLN:HA	2:G:46:GLY:HA3	1.66	0.77
4:C:860:PRO:C	4:B:439:MET:O	2.09	0.77
4:C:1085:PHE:CG	4:B:285:PHE:HD1	2.03	0.77
5:A:741:ILE:HB	5:A:752:LEU:HD11	1.66	0.77
1:K:450:TYR:HE1	2:H:62:GLN:HB3	1.46	0.77
1:K:650:LYS:HE3	1:F:300:ILE:HG12	1.32	0.77
2:I:71:HIS:HD1	1:F:582:GLY:HA2	1.45	0.77
2:H:244:THR:CG2	2:H:247:ARG:HG2	2.14	0.77
1:F:408:ILE:HD12	1:F:418:GLN:HG2	1.67	0.77
4:C:814:LEU:HD22	4:C:814:LEU:H	1.47	0.77
4:C:1162:LEU:HD12	4:C:1162:LEU:N	1.99	0.77
1:K:327:LYS:HD3	1:F:445:THR:H	1.50	0.77
3:E:200:ASN:CG	4:B:508:ARG:HD3	2.03	0.77
3:E:233:THR:CG2	3:E:256:SER:HB3	2.15	0.77
4:C:1075:HIS:H	4:C:1108:TRP:HA	1.50	0.77
5:A:648:ASN:C	5:A:648:ASN:HD22	1.86	0.77
4:C:600:TYR:CD2	4:C:830:PRO:HA	2.19	0.77
4:B:685:PRO:HG2	4:B:688:PHE:CB	2.14	0.77
5:A:147:LEU:HD21	5:A:162:ASP:HA	1.67	0.77
5:A:426:TYR:CD1	5:A:694:PHE:HA	2.19	0.77
5:A:979:ILE:HG12	5:A:1021:ILE:HG12	1.66	0.77
5:A:1175:SER:HA	5:A:1181:LEU:HA	1.67	0.77
5:A:940:LEU:CA	5:A:952:PRO:HD2	2.12	0.77
1:K:375:PRO:CB	1:K:454:PRO:HD3	2.15	0.77
1:K:551:LYS:O	1:K:551:LYS:NZ	2.17	0.77
4:C:691:ILE:H	4:C:691:ILE:HD12	1.50	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1084:SER:HB3	4:C:1093:MET:H	1.50	0.77
5:A:872:TYR:CE2	5:A:895:ALA:HB2	2.19	0.77
1:K:124:PHE:HB3	1:K:185:LEU:HD22	1.67	0.77
3:E:86:TRP:CZ3	4:B:859:GLN:OE1	2.36	0.77
4:C:636:LEU:HD22	4:C:648:ALA:HB2	1.67	0.77
4:C:841:ASP:CB	4:C:1005:ASN:HB3	2.14	0.77
4:B:778:ASN:HB3	4:B:781:TYR:HB3	1.65	0.77
5:A:13:LEU:CD2	5:A:312:TYR:HA	2.12	0.77
3:E:186:THR:HA	3:E:252:ILE:HG12	1.65	0.76
5:A:705:GLY:H	5:A:758:ARG:HG2	1.50	0.76
4:C:573:PRO:HB3	4:C:623:LEU:HD21	1.67	0.76
4:C:1157:ALA:HB3	4:C:1195:ALA:HB1	1.66	0.76
4:B:580:LYS:HA	4:B:580:LYS:CE	2.12	0.76
4:B:1000:GLN:HA	4:B:1009:PHE:O	1.84	0.76
5:A:406:ALA:HB3	5:A:409:GLU:HG3	1.67	0.76
1:K:248:GLN:HB2	1:K:257:VAL:HG12	1.66	0.76
3:E:175:VAL:HG11	3:E:208:THR:HB	1.68	0.76
4:C:394:LEU:CD2	4:C:395:PRO:HD3	2.01	0.76
4:C:984:LEU:HB3	4:C:987:LEU:HD12	1.65	0.76
5:A:638:TYR:HD2	5:A:664:LEU:HD13	1.49	0.76
5:A:712:GLU:HG3	5:A:751:VAL:HG13	1.66	0.76
5:A:750:ARG:HH11	5:A:750:ARG:CG	1.97	0.76
5:A:992:ARG:HH21	5:A:996:LEU:HD21	1.48	0.76
1:K:55:THR:CG2	1:K:147:TYR:CB	2.56	0.76
2:H:100:LEU:HD22	2:H:159:LEU:HD12	1.65	0.76
4:C:814:LEU:HD22	4:C:814:LEU:N	2.00	0.76
4:C:1002:GLN:CB	4:C:1008:THR:HG22	2.15	0.76
4:C:1169:GLU:HB3	4:C:1176:PRO:HB3	1.67	0.76
4:B:1002:GLN:HB2	4:B:1008:THR:HG22	1.67	0.76
4:B:1112:LEU:HG	4:B:1116:GLN:HE21	1.48	0.76
5:A:115:VAL:CG1	5:A:136:LEU:HA	2.13	0.76
1:K:341:MET:HA	1:K:341:MET:CE	2.16	0.76
1:K:506:LYS:CD	2:G:310:LYS:C	2.26	0.76
1:K:508:ALA:CA	2:G:312:ARG:HA	2.13	0.76
4:C:862:LEU:N	4:B:443:ALA:H	1.79	0.76
5:A:401:THR:HG21	5:A:724:ARG:HH21	1.49	0.76
1:K:211:PRO:HB2	1:K:214:SER:HB2	1.66	0.76
3:E:167:ASP:HB3	3:E:170:MET:HG3	1.68	0.76
1:K:197:THR:CB	1:F:563:PRO:O	2.34	0.76
2:I:187:ASP:HB3	2:I:190:HIS:CE1	2.21	0.76
1:F:427:TYR:CB	1:F:473:ILE:HD11	2.14	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:183:PHE:HA	3:E:253:LEU:HD23	1.66	0.76
4:C:237:ALA:CB	4:C:247:LEU:HB3	2.15	0.76
4:C:417:SER:HG	4:C:420:CYS:HG	1.29	0.76
4:C:502:ASN:CB	4:C:1262:TYR:HA	2.16	0.76
5:A:875:ASP:HB3	5:A:916:LYS:HE2	1.66	0.76
4:C:495:SER:N	4:C:496:PRO:HD3	2.01	0.76
4:C:732:LEU:HD13	4:C:1011:VAL:HG11	1.68	0.76
4:B:1074:VAL:CG1	4:B:1109:ILE:HG12	2.15	0.76
5:A:290:GLN:H	5:A:290:GLN:CD	1.89	0.76
5:A:1257:LEU:HD22	5:A:1263:VAL:HG23	1.68	0.76
1:K:374:ALA:CB	1:K:375:PRO:HD2	2.14	0.75
1:K:428:VAL:HB	1:K:430:LEU:HD21	1.68	0.75
1:K:506:LYS:HB2	2:G:312:ARG:CA	2.15	0.75
3:E:178:LEU:HD22	4:B:481:TRP:CH2	2.21	0.75
4:B:905:ILE:HG23	4:B:909:TYR:CD1	2.21	0.75
5:A:63:LEU:HA	5:A:120:VAL:HG11	1.68	0.75
5:A:1232:ALA:HB3	5:A:1274:ILE:HG23	1.68	0.75
1:K:613:GLN:NE2	2:G:7:ASN:HD21	1.79	0.75
2:I:72:ARG:O	2:I:72:ARG:HD3	1.85	0.75
2:I:80:GLN:HA	2:I:83:VAL:HG12	1.69	0.75
1:F:248:GLN:NE2	1:F:248:GLN:HA	2.00	0.75
4:C:394:LEU:HD22	4:C:395:PRO:HD2	0.76	0.75
4:B:999:ILE:CG2	4:B:1011:VAL:HB	2.15	0.75
5:A:721:GLN:CA	5:A:721:GLN:HE21	1.99	0.75
1:K:101:VAL:CG1	1:F:265:VAL:HG21	2.15	0.75
5:A:1130:TRP:HA	5:A:1143:VAL:HG22	1.67	0.75
1:K:118:LEU:HD21	1:K:178:ILE:HG23	1.69	0.75
1:K:198:LEU:HD23	1:K:219:LEU:HD23	1.67	0.75
1:K:450:TYR:CE1	2:H:62:GLN:HG2	2.21	0.75
5:A:826:LEU:HB3	5:A:886:VAL:HA	1.69	0.75
5:A:851:ILE:HD12	5:A:851:ILE:N	2.01	0.75
5:A:1170:LYS:O	5:A:1185:VAL:HA	1.86	0.75
1:F:124:PHE:HB2	1:F:188:TRP:CG	2.22	0.75
1:K:506:LYS:CG	2:G:313:TYR:HB2	2.15	0.75
2:I:263:PRO:HB3	2:I:269:PRO:HD3	1.67	0.75
4:C:261:GLY:HA3	4:C:313:ASN:N	2.02	0.75
5:A:826:LEU:HA	5:A:847:THR:HB	1.68	0.75
2:H:1:MET:HB3	2:H:71:HIS:CA	2.12	0.75
1:F:550:ILE:HG12	1:F:631:VAL:HG21	1.67	0.75
3:E:35:SER:OG	4:B:1014:GLU:OE1	2.05	0.75
4:C:285:PHE:HB3	4:C:290:TYR:HE1	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:478:ILE:HG21	5:A:645:VAL:HG11	1.67	0.75
5:A:712:GLU:HB3	5:A:751:VAL:HG22	1.69	0.75
1:K:212:MET:HA	1:K:212:MET:HE2	1.69	0.74
1:F:358:HIS:HB2	1:F:477:ALA:CA	2.17	0.74
3:E:175:VAL:HG13	3:E:178:LEU:HD12	1.69	0.74
5:A:497:ILE:CA	5:A:504:GLU:HA	2.11	0.74
1:K:527:LEU:HD22	1:K:611:ILE:HD11	1.69	0.74
1:F:579:THR:HA	1:F:584:ARG:NH2	2.00	0.74
4:C:1108:TRP:HB2	4:C:1137:ILE:HG12	1.69	0.74
1:K:410:PHE:HA	1:K:413:TRP:CD2	2.22	0.74
2:G:353:ASP:OD1	2:G:353:ASP:N	2.20	0.74
1:F:337:ILE:HG22	1:F:363:GLY:HA2	1.70	0.74
4:C:636:LEU:HD13	4:C:648:ALA:HB1	1.69	0.74
4:C:713:TRP:CD2	4:C:714:PRO:CD	2.63	0.74
4:C:759:ASN:HD21	4:C:808:PRO:HB2	1.52	0.74
1:K:344:LEU:HA	1:K:361:LEU:O	1.87	0.74
1:K:506:LYS:HG3	2:G:313:TYR:CD1	2.16	0.74
4:B:1034:GLU:HB3	4:B:1037:LEU:HB2	1.68	0.74
5:A:1138:ILE:H	5:A:1138:ILE:CD1	1.97	0.74
5:A:1193:TYR:HB2	5:A:1233:PRO:HB3	1.70	0.74
1:K:504:THR:CG2	2:G:317:PRO:HG3	1.91	0.74
3:E:178:LEU:CG	4:B:481:TRP:CH2	2.70	0.74
4:C:601:ASN:H	4:C:832:GLN:HG2	1.52	0.74
4:B:824:PRO:HB2	4:B:825:MET:HE3	1.69	0.74
5:A:743:ILE:H	5:A:743:ILE:HD12	1.52	0.74
1:K:49:ILE:CD1	1:K:53:ASP:CA	2.66	0.74
1:K:352:ASN:CG	2:H:64:LYS:HD2	2.08	0.74
2:I:71:HIS:ND1	1:F:581:TYR:C	2.23	0.74
2:I:72:ARG:CA	1:F:581:TYR:HB2	2.15	0.74
4:B:716:PRO:HA	4:B:743:ILE:HA	1.68	0.74
1:K:105:GLU:H	1:K:105:GLU:CD	1.91	0.74
1:K:47:PRO:HD2	1:K:65:ARG:NH1	2.03	0.74
1:K:613:GLN:HE22	2:G:7:ASN:ND2	1.81	0.74
3:E:163:TYR:CE1	3:E:269:SER:HB2	2.22	0.74
4:C:1044:ASP:HA	4:C:1141:MET:HG3	1.69	0.74
4:B:338:LEU:HG	4:B:339:LEU:HG	1.70	0.74
5:A:436:SER:CB	5:A:643:PRO:HA	2.16	0.74
5:A:878:ILE:HB	5:A:916:LYS:HB3	1.69	0.74
1:F:57:VAL:HG11	1:F:63:LEU:HG	1.69	0.74
3:E:165:ARG:HA	3:E:268:ARG:O	1.88	0.74
3:E:258:ASN:HB2	4:C:854:ARG:HH11	1.43	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:546:ILE:HG21	4:C:822:ILE:HD11	1.70	0.74
5:A:512:VAL:HG11	5:A:533:TRP:HH2	1.51	0.74
1:K:145:ASP:CA	1:K:161:LYS:HA	2.13	0.74
1:K:325:THR:HA	1:F:442:ILE:CD1	2.16	0.74
2:I:100:LEU:HD22	2:I:159:LEU:CD1	2.18	0.74
4:C:699:ALA:HB1	4:C:702:LEU:HB2	1.69	0.74
4:B:347:ARG:HB3	4:B:1176:PRO:HB3	1.70	0.74
4:B:1082:ARG:O	4:B:1095:ARG:N	2.20	0.74
2:G:52:MET:HA	2:G:52:MET:CE	2.17	0.73
1:F:153:ARG:NH1	1:F:153:ARG:HA	2.03	0.73
3:E:52:LEU:HG	3:E:281:MET:HE2	1.69	0.73
5:A:410:GLY:HA2	5:A:725:ILE:CG2	2.18	0.73
5:A:1249:ILE:HG22	5:A:1252:SER:HB3	1.70	0.73
1:K:101:VAL:HG21	1:F:265:VAL:HG22	1.69	0.73
1:K:507:GLY:N	2:G:313:TYR:O	2.05	0.73
5:A:873:LEU:HB3	5:A:899:LYS:HE2	1.69	0.73
1:K:298:PRO:HG2	1:K:632:LYS:HD2	1.70	0.73
3:E:399:ASN:HA	3:E:402:TRP:CD1	2.23	0.73
5:A:24:GLN:H	5:A:24:GLN:CD	1.90	0.73
2:H:271:VAL:O	2:H:282:MET:HA	1.87	0.73
4:C:699:ALA:HB1	4:C:702:LEU:HD12	1.71	0.73
4:B:339:LEU:HB2	4:B:353:MET:CG	2.18	0.73
5:A:497:ILE:HA	5:A:504:GLU:CA	2.11	0.73
1:K:50:ALA:N	1:K:56:SER:H	1.86	0.73
1:K:352:ASN:HD22	2:H:64:LYS:HB2	1.49	0.73
4:C:833:VAL:HG12	4:C:834:PRO:CD	2.18	0.73
4:B:1188:HIS:HA	4:B:1220:ILE:HG22	1.70	0.73
5:A:750:ARG:HB3	5:A:750:ARG:NH1	2.04	0.73
1:K:408:ILE:HG12	1:K:418:GLN:HG2	1.69	0.73
4:C:1078:GLY:H	4:C:1097:GLU:HA	1.53	0.73
5:A:218:ALA:HB3	5:A:235:LEU:HD22	1.70	0.73
5:A:1201:VAL:HA	5:A:1206:VAL:HG22	1.70	0.73
2:G:53:HIS:HB2	2:G:73:CYS:SG	2.28	0.73
3:E:38:GLN:HB2	3:E:41:GLN:HB2	1.71	0.73
4:C:853:SER:HA	4:C:996:GLN:HB3	1.70	0.73
4:C:861:ALA:HB1	4:B:443:ALA:H	1.53	0.73
5:A:636:THR:HB	5:A:657:GLY:HA3	1.70	0.73
5:A:743:ILE:HA	5:A:752:LEU:HA	1.70	0.73
3:E:184:GLY:HA3	4:B:500:SER:OG	1.87	0.73
4:C:1229:VAL:HA	4:C:1236:THR:HG21	1.71	0.73
4:B:266:PHE:HD2	4:B:306:VAL:HG22	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:399:ALA:HA	4:B:402:TRP:HD1	1.52	0.73
5:A:290:GLN:H	5:A:290:GLN:NE2	1.86	0.73
4:B:713:TRP:HD1	4:B:837:ARG:HG3	1.53	0.73
5:A:13:LEU:HD22	5:A:312:TYR:CA	2.13	0.73
2:G:68:LEU:HD12	2:G:69:PRO:CD	2.19	0.73
2:G:234:LYS:HB3	2:G:238:TYR:CE2	2.24	0.73
3:E:183:PHE:HB3	4:B:499:PRO:C	2.08	0.73
4:C:860:PRO:N	4:B:439:MET:C	2.36	0.73
1:K:583:VAL:N	2:G:68:LEU:O	2.09	0.72
4:C:851:ARG:HD2	4:C:991:ASP:HB3	1.69	0.72
5:A:1045:PRO:HA	5:A:1086:GLU:CA	2.19	0.72
1:K:517:GLU:CD	2:G:313:TYR:HE2	1.91	0.72
1:K:650:LYS:HZ1	1:F:300:ILE:HG12	1.54	0.72
2:I:141:MET:HA	2:I:147:SER:HB2	1.70	0.72
1:F:323:VAL:HA	1:F:326:LEU:CD1	2.19	0.72
1:F:375:PRO:HG3	1:F:454:PRO:HD2	1.69	0.72
3:E:175:VAL:HA	3:E:178:LEU:HD12	1.70	0.72
4:C:603:VAL:HG13	4:C:831:PHE:CD2	2.24	0.72
4:C:833:VAL:HG13	4:C:834:PRO:HD2	1.71	0.72
4:B:265:SER:HB3	4:B:308:THR:HG22	1.71	0.72
5:A:426:TYR:CG	5:A:694:PHE:HA	2.23	0.72
5:A:948:ARG:HA	5:A:959:PRO:CA	2.19	0.72
1:F:125:LEU:HG	1:F:185:LEU:HD21	1.72	0.72
1:F:217:LYS:HD3	1:F:675:PRO:HG3	1.72	0.72
3:E:51:GLY:O	3:E:52:LEU:HB2	1.88	0.72
4:C:434:PHE:HB2	4:C:1256:VAL:HG11	1.69	0.72
4:B:336:LYS:NZ	4:B:345:SER:O	2.22	0.72
5:A:721:GLN:HE21	5:A:721:GLN:HA	1.54	0.72
5:A:721:GLN:HA	5:A:721:GLN:NE2	2.03	0.72
5:A:745:GLU:HA	5:A:750:ARG:HA	1.70	0.72
2:G:55:LEU:HG	2:G:55:LEU:O	1.88	0.72
3:E:163:TYR:HB2	3:E:271:PHE:CD2	2.24	0.72
4:B:437:ALA:O	4:B:445:SER:HA	1.90	0.72
2:I:3:VAL:CG2	2:I:56:GLY:HA3	2.19	0.72
4:C:500:SER:HB3	4:C:503:ARG:HB2	1.70	0.72
4:C:836:VAL:HB	4:C:839:ASP:HB3	1.72	0.72
4:B:409:THR:HA	4:B:423:VAL:HG13	1.71	0.72
4:B:1203:GLU:HG3	4:B:1205:ASN:HD21	1.55	0.72
5:A:405:ALA:O	5:A:772:LEU:HB3	1.90	0.72
1:K:579:THR:HG22	2:G:70:HIS:CE1	2.24	0.72
2:G:121:VAL:HG21	2:G:128:LEU:HD13	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:370:LEU:O	1:F:373:ILE:HG12	1.89	0.72
3:E:258:ASN:CA	4:C:854:ARG:NH2	2.52	0.72
4:C:258:TRP:HB3	4:C:374:ARG:HB2	1.70	0.72
4:C:543:LEU:CA	4:C:546:ILE:HG22	2.19	0.72
4:C:985:GLU:N	4:C:986:PRO:HD2	2.04	0.72
4:C:1154:ARG:HA	4:C:1192:SER:HA	1.72	0.72
5:A:222:VAL:HA	5:A:283:TYR:HD2	1.52	0.72
5:A:353:ILE:HB	5:A:371:ARG:CB	2.19	0.72
1:F:304:LEU:HD11	1:F:625:ILE:HD11	1.72	0.72
3:E:90:ARG:HD3	3:E:112:LEU:HA	1.72	0.72
4:C:491:VAL:HA	4:C:1274:VAL:HG23	1.70	0.72
4:B:992:PRO:HA	4:B:995:THR:CG2	2.20	0.72
1:K:102:VAL:HA	1:K:164:PRO:O	1.90	0.72
1:K:338:PRO:HB3	2:G:333:ILE:HD11	1.71	0.72
3:E:274:PRO:HA	3:E:330:PHE:H	1.54	0.72
4:C:508:ARG:HA	4:C:508:ARG:HE	1.55	0.72
4:B:580:LYS:HE3	4:B:580:LYS:CA	2.19	0.72
4:B:638:LEU:HD12	4:B:886:LEU:HD11	1.72	0.72
5:A:54:ILE:HD12	5:A:54:ILE:H	1.55	0.72
5:A:401:THR:HG21	5:A:724:ARG:NH2	2.03	0.72
5:A:574:VAL:HB	5:A:612:PHE:CB	2.20	0.72
1:K:357:TRP:HA	1:K:475:SER:HA	1.72	0.72
2:I:3:VAL:CG1	2:I:58:VAL:HG12	2.19	0.72
2:G:339:ALA:HA	2:G:342:MET:HB2	1.72	0.72
4:C:633:ALA:HA	4:C:636:LEU:HD12	1.70	0.72
4:B:263:CYS:O	4:B:263:CYS:SG	2.47	0.72
5:A:426:TYR:HB2	5:A:695:GLY:N	2.04	0.72
1:K:408:ILE:HD12	1:K:408:ILE:N	2.03	0.72
4:C:623:LEU:HA	4:C:626:LEU:HD12	1.72	0.72
5:A:626:TYR:CE2	5:A:631:ILE:HD11	2.24	0.72
5:A:873:LEU:HD11	5:A:895:ALA:HB1	1.71	0.72
5:A:1122:PRO:HG2	5:A:1150:TYR:CG	2.24	0.72
3:E:231:GLN:HA	3:E:259:HIS:CB	2.20	0.71
4:C:453:THR:HA	4:C:1254:TYR:HA	1.72	0.71
4:C:851:ARG:HB3	4:C:994:MET:HB2	1.72	0.71
4:B:892:PRO:HG2	4:B:895:LEU:HD13	1.72	0.71
5:A:7:VAL:HG21	5:A:334:ILE:HG12	1.72	0.71
5:A:743:ILE:HD12	5:A:743:ILE:N	2.04	0.71
5:A:1045:PRO:HB3	5:A:1086:GLU:HG2	1.72	0.71
1:K:324:ARG:NH2	1:F:436:SER:HB3	2.05	0.71
2:I:271:VAL:O	2:I:282:MET:HA	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:375:PRO:HA	1:F:454:PRO:HD3	1.72	0.71
4:C:1082:ARG:HB3	4:B:415:ASN:N	2.04	0.71
2:G:51:CYS:HB2	2:G:58:VAL:CG1	2.20	0.71
1:F:505:VAL:HB	1:F:510:VAL:CG1	2.19	0.71
4:C:1131:LYS:HD2	4:C:1131:LYS:O	1.90	0.71
5:A:842:ALA:O	5:A:863:VAL:HG21	1.90	0.71
1:K:230:ARG:HB2	1:K:231:ARG:HH21	1.53	0.71
2:I:55:LEU:HD21	2:I:298:LEU:HD11	1.71	0.71
2:G:100:LEU:HD22	2:G:159:LEU:HG	1.72	0.71
4:C:336:LYS:HB2	4:C:340:ASN:HB2	1.73	0.71
4:C:336:LYS:HB2	4:C:340:ASN:HB3	1.71	0.71
4:B:340:ASN:HD22	4:B:340:ASN:N	1.88	0.71
5:A:573:PHE:CZ	5:A:575:TYR:HB2	2.25	0.71
2:G:268:MET:SD	2:G:269:PRO:HD2	2.30	0.71
3:E:179:LEU:N	4:B:497:TYR:OH	2.23	0.71
4:C:717:SER:HB3	4:C:744:ASP:HA	1.73	0.71
4:C:1054:HIS:HB2	4:C:1056:TRP:CD1	2.26	0.71
4:C:1151:TYR:N	4:C:1182:VAL:O	2.22	0.71
4:B:434:PHE:N	4:B:450:VAL:HA	2.03	0.71
4:B:716:PRO:HA	4:B:743:ILE:CA	2.21	0.71
4:B:778:ASN:HD22	4:B:781:TYR:HB2	1.55	0.71
1:K:506:LYS:HE2	2:G:309:GLU:CB	2.20	0.71
1:K:518:LEU:HD21	1:K:535:ALA:HB3	1.70	0.71
4:C:991:ASP:HA	4:C:993:ARG:HH21	1.53	0.71
4:B:837:ARG:HB2	5:A:238:LEU:CD1	2.21	0.71
4:B:837:ARG:HB2	5:A:238:LEU:HD13	1.71	0.71
5:A:549:GLN:HB3	5:A:557:GLY:HA2	1.73	0.71
1:K:55:THR:HA	1:K:63:LEU:CD2	2.21	0.71
1:K:125:LEU:HG	1:K:185:LEU:HD11	1.72	0.71
1:K:312:PHE:HE2	1:K:535:ALA:HB1	1.56	0.71
4:C:360:HIS:HD2	4:C:969:VAL:HG22	1.56	0.71
4:C:518:GLN:HG3	4:C:521:ARG:HE	1.55	0.71
4:C:814:LEU:H	4:C:814:LEU:CD2	2.03	0.71
4:C:1082:ARG:C	4:B:414:PRO:O	2.28	0.71
4:B:1074:VAL:HA	4:B:1107:ASN:O	1.90	0.71
5:A:19:GLU:HG3	5:A:276:VAL:HG23	1.72	0.71
1:F:358:HIS:HB2	1:F:477:ALA:N	2.06	0.71
4:C:620:VAL:HG21	4:C:659:PHE:CE1	2.24	0.71
4:C:1085:PHE:CD2	4:B:285:PHE:CA	2.74	0.71
4:B:1108:TRP:HB2	4:B:1137:ILE:HG12	1.72	0.71
5:A:851:ILE:H	5:A:851:ILE:CD1	1.98	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1073:ILE:HB	5:A:1076:VAL:CG2	2.20	0.71
1:K:225:ASP:HA	1:K:230:ARG:NE	2.02	0.71
1:K:506:LYS:CG	2:G:310:LYS:CA	2.41	0.71
2:H:121:VAL:HG11	2:H:128:LEU:HB2	1.71	0.71
1:F:515:PRO:HA	1:F:518:LEU:HD12	1.72	0.71
3:E:25:LEU:HD23	3:E:57:LEU:HD13	1.71	0.71
4:C:1085:PHE:HA	4:C:1092:PRO:HB3	1.72	0.71
4:B:278:GLN:HE21	4:B:281:LEU:HB2	1.53	0.71
4:B:482:ALA:CB	4:B:726:VAL:HG21	2.21	0.71
4:B:1041:ALA:HB2	4:B:1146:TYR:CD2	2.26	0.71
2:I:121:VAL:O	2:I:125:GLY:N	2.21	0.71
2:I:326:ARG:NH1	2:I:326:ARG:HB2	2.05	0.71
3:E:222:LEU:HB3	3:E:228:ILE:HG12	1.72	0.71
4:C:515:GLN:CG	4:C:730:ALA:HB1	2.20	0.71
5:A:483:LEU:HA	5:A:529:VAL:CG2	2.19	0.71
1:K:304:LEU:HD12	1:K:304:LEU:N	2.06	0.70
1:F:103:VAL:HG11	1:F:141:LEU:CD2	2.21	0.70
3:E:178:LEU:HD11	4:B:481:TRP:CZ2	2.23	0.70
5:A:706:ILE:HG12	5:A:757:ARG:HG2	1.73	0.70
1:F:544:SER:HA	1:F:607:PRO:HG2	1.73	0.70
4:C:262:LEU:HB2	4:C:311:ALA:HB3	1.71	0.70
4:C:851:ARG:HB3	4:C:994:MET:CB	2.21	0.70
5:A:1043:VAL:HG13	5:A:1086:GLU:HB3	1.71	0.70
1:K:337:ILE:HA	1:K:411:GLU:HG3	1.72	0.70
1:K:435:SER:CB	1:K:442:ILE:HB	2.20	0.70
3:E:153:LEU:HD12	3:E:153:LEU:O	1.91	0.70
3:E:170:MET:CG	3:E:211:ARG:HB3	2.20	0.70
3:E:200:ASN:OD1	4:B:508:ARG:NE	2.24	0.70
4:C:474:ILE:HG21	4:C:507:TYR:HB2	1.72	0.70
4:B:247:LEU:HD22	4:B:521:ARG:HD3	1.72	0.70
5:A:303:VAL:O	5:A:307:LEU:HG	1.90	0.70
1:K:437:PHE:HB2	1:K:440:GLN:HB2	1.71	0.70
2:G:220:VAL:HG22	2:G:264:ILE:CG2	2.21	0.70
4:C:334:LEU:HA	4:C:337:GLN:HG3	1.74	0.70
4:C:543:LEU:HA	4:C:546:ILE:CG2	2.17	0.70
4:B:1041:ALA:HB2	4:B:1146:TYR:HD2	1.56	0.70
5:A:12:SER:HA	5:A:380:ARG:O	1.92	0.70
5:A:423:ARG:CA	5:A:697:VAL:HA	2.21	0.70
1:K:380:LEU:HB2	1:K:401:PHE:HZ	1.54	0.70
2:I:100:LEU:HD22	2:I:159:LEU:HD12	1.73	0.70
2:I:127:SER:HA	2:I:364:LEU:CA	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:237:ALA:N	4:C:248:LEU:H	1.89	0.70
4:B:1112:LEU:HB2	4:B:1139:ILE:HG23	1.72	0.70
1:K:353:THR:HG21	2:H:61:LEU:HD22	1.70	0.70
1:K:409:PRO:HG2	1:K:412:LEU:HD12	1.74	0.70
4:B:691:ILE:HD12	4:B:691:ILE:N	2.06	0.70
5:A:187:LEU:CD1	5:A:191:ASP:HB3	2.20	0.70
5:A:314:LEU:HG	5:A:318:ILE:HD11	1.72	0.70
1:K:450:TYR:CE1	2:H:62:GLN:HB3	2.27	0.70
3:E:156:THR:HG21	3:E:160:PRO:HA	1.72	0.70
4:C:684:TRP:CE3	4:C:840:ARG:HD3	2.27	0.70
4:C:813:GLN:O	4:C:816:PRO:HD2	1.91	0.70
4:C:1230:GLU:HB2	4:C:1250:VAL:CG1	2.21	0.70
4:B:483:LEU:HB2	4:B:493:VAL:HG21	1.72	0.70
1:K:506:LYS:CB	2:G:312:ARG:N	2.52	0.70
2:G:170:LEU:HA	2:G:173:MET:HE2	1.73	0.70
3:E:2:ALA:CA	3:E:299:SER:HA	2.19	0.70
3:E:243:ARG:HH12	4:B:435:ASP:CG	1.95	0.70
4:C:283:TYR:HD1	4:C:290:TYR:HB2	1.56	0.70
4:B:520:ILE:HG23	4:B:986:PRO:HG2	1.74	0.70
5:A:940:LEU:HA	5:A:951:PHE:HA	1.73	0.70
1:F:64:ARG:HH12	1:F:67:THR:HG23	1.56	0.70
1:F:399:VAL:HG12	1:F:472:PHE:HA	1.74	0.70
3:E:12:GLY:HA2	3:E:121:ALA:HB1	1.73	0.70
3:E:316:ILE:HB	3:E:320:THR:HG23	1.73	0.70
4:C:1056:TRP:HB2	4:C:1060:ALA:O	1.92	0.70
1:K:346:GLN:HA	1:K:360:ASN:HA	1.74	0.70
2:G:138:PRO:HG3	2:G:143:ARG:HH21	1.57	0.70
2:G:185:MET:O	2:G:260:ALA:HB3	1.92	0.70
1:F:471:THR:HA	1:F:488:VAL:HG22	1.73	0.70
3:E:222:LEU:HD22	3:E:227:VAL:HG11	1.72	0.70
4:B:303:ARG:CG	4:B:1209:LEU:HA	2.20	0.70
5:A:708:THR:HB	5:A:755:THR:HG23	1.73	0.70
1:K:350:THR:HG22	1:K:356:ASN:HB2	1.74	0.69
1:F:210:CYS:SG	1:F:211:PRO:HD3	2.31	0.69
4:C:530:THR:O	4:C:534:PRO:HD3	1.91	0.69
5:A:49:GLN:HE21	5:A:185:PRO:HD3	1.56	0.69
5:A:1124:VAL:HG12	5:A:1209:TYR:HD2	1.57	0.69
1:K:411:GLU:N	1:K:411:GLU:OE1	2.25	0.69
1:K:450:TYR:HD1	2:H:62:GLN:CG	1.93	0.69
1:K:540:ILE:HD13	1:K:608:SER:HB2	1.74	0.69
2:H:224:ASP:HB3	2:H:355:PRO:HG2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:27:SER:O	2:G:31:GLY:N	2.25	0.69
1:F:516:ALA:HB1	1:F:621:LYS:HD3	1.74	0.69
3:E:180:MET:N	4:B:497:TYR:CZ	2.56	0.69
4:C:1093:MET:HB2	4:C:1101:MET:CB	2.21	0.69
4:C:1126:PHE:HA	4:C:1129:TRP:CD1	2.26	0.69
4:B:1150:TYR:HA	4:B:1182:VAL:O	1.93	0.69
5:A:163:VAL:CG1	5:A:199:PHE:HB3	2.22	0.69
5:A:535:GLN:HB3	5:A:537:LYS:HE2	1.74	0.69
5:A:1045:PRO:HA	5:A:1086:GLU:HG2	1.75	0.69
1:K:316:PRO:HD3	1:K:500:ALA:HB2	1.74	0.69
2:H:1:MET:CB	2:H:71:HIS:HA	2.12	0.69
4:C:600:TYR:CE2	4:C:830:PRO:HA	2.28	0.69
5:A:438:TYR:HB2	5:A:641:ILE:HG12	1.74	0.69
5:A:570:ASP:HA	5:A:605:ALA:O	1.90	0.69
1:K:506:LYS:HG2	2:G:310:LYS:CA	2.16	0.69
2:G:364:LEU:HD12	2:G:364:LEU:O	1.92	0.69
3:E:201:ARG:HB3	3:E:201:ARG:NH1	2.06	0.69
4:C:1152:ASP:OD1	4:C:1154:ARG:HG2	1.93	0.69
4:B:563:VAL:HG11	4:B:574:ALA:HB2	1.74	0.69
1:K:344:LEU:HD11	1:K:360:ASN:HD22	1.58	0.69
1:K:388:LYS:HA	1:K:394:PRO:HD3	1.72	0.69
2:H:288:GLY:HA2	2:H:291:LYS:HD2	1.72	0.69
1:F:404:PHE:CD2	1:F:419:ILE:HB	2.27	0.69
4:B:293:GLN:HE22	4:B:401:LYS:HA	1.56	0.69
4:B:707:GLU:HB3	4:B:711:ARG:HH12	1.57	0.69
5:A:426:TYR:CD1	5:A:794:LEU:HD23	2.28	0.69
5:A:742:ALA:CA	5:A:787:ILE:HB	2.19	0.69
1:K:367:VAL:HG12	1:K:469:LEU:HB2	1.75	0.69
2:H:20:GLU:HG2	2:H:22:ARG:NH1	2.07	0.69
2:G:230:HIS:O	2:G:232:PRO:HD3	1.92	0.69
2:G:257:TYR:HA	2:G:342:MET:O	1.92	0.69
3:E:55:SER:HB3	3:E:58:VAL:HB	1.74	0.69
3:E:136:ASP:HB3	3:E:139:PHE:HB3	1.75	0.69
4:B:303:ARG:HG2	4:B:1209:LEU:CA	2.21	0.69
5:A:172:TYR:CD1	5:A:190:LYS:HB2	2.27	0.69
5:A:1028:MET:N	5:A:1028:MET:SD	2.65	0.69
1:K:197:THR:OG1	1:F:563:PRO:HA	1.93	0.69
1:K:402:ILE:CG1	1:K:424:VAL:HG22	2.21	0.69
2:G:73:CYS:SG	2:G:75:GLN:HG3	2.33	0.69
2:G:220:VAL:HG22	2:G:264:ILE:HG23	1.73	0.69
4:C:500:SER:HB3	4:C:503:ARG:CB	2.23	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:50:ALA:N	1:K:53:ASP:O	2.26	0.69
1:K:514:VAL:HG12	1:K:517:GLU:H	1.58	0.69
1:K:650:LYS:HZ3	1:F:300:ILE:H	1.38	0.69
2:I:113:VAL:HG11	2:I:128:LEU:HD21	1.73	0.69
3:E:90:ARG:HD2	3:E:93:ARG:HA	1.75	0.69
3:E:95:VAL:HG21	3:E:108:PRO:HD3	1.74	0.69
4:C:265:SER:HB3	4:C:308:THR:HA	1.73	0.69
4:C:813:GLN:HB2	4:C:814:LEU:HD22	1.74	0.69
4:C:1154:ARG:HB3	4:C:1191:SER:O	1.93	0.69
5:A:319:PRO:HG2	5:A:322:LEU:HD23	1.74	0.69
1:K:505:VAL:CG1	2:G:313:TYR:CB	2.65	0.69
1:K:509:VAL:N	2:G:312:ARG:CD	2.55	0.69
3:E:28:HIS:HB2	3:E:57:LEU:HD12	1.74	0.69
4:C:306:VAL:HB	4:C:324:MET:CB	2.23	0.69
4:C:430:ARG:HD2	4:C:1234:ILE:HB	1.75	0.69
4:C:1082:ARG:HD3	4:B:420:CYS:CB	2.13	0.69
5:A:263:GLN:HB3	5:A:308:ALA:HB1	1.74	0.69
5:A:873:LEU:CD1	5:A:895:ALA:HB1	2.23	0.69
2:I:118:LEU:O	2:I:122:ARG:HG2	1.93	0.69
3:E:258:ASN:CG	4:C:1010:ASN:HD22	1.79	0.69
5:A:1190:ALA:HB1	5:A:1233:PRO:HA	1.73	0.69
1:K:392:TRP:O	1:K:392:TRP:HD1	1.76	0.68
2:I:326:ARG:HB2	2:I:326:ARG:HH11	1.58	0.68
4:C:221:THR:HA	4:C:1267:ILE:O	1.93	0.68
4:B:580:LYS:HG2	4:B:627:TRP:HB3	1.73	0.68
5:A:222:VAL:HA	5:A:283:TYR:CD2	2.28	0.68
5:A:323:THR:N	5:A:326:TRP:HB3	2.08	0.68
1:K:166:ILE:HG13	1:K:170:ARG:HD2	1.75	0.68
1:K:268:SER:HA	1:K:271:ALA:HB3	1.75	0.68
2:H:198:GLU:HG3	2:H:355:PRO:HB2	1.74	0.68
4:C:433:ARG:HA	4:C:450:VAL:HA	1.75	0.68
4:C:490:TYR:CE2	4:C:901:TYR:HB2	2.27	0.68
4:C:949:LEU:HA	4:C:951:TRP:CD1	2.28	0.68
4:B:242:LYS:H	4:B:242:LYS:HD2	1.58	0.68
4:C:480:GLU:HG2	4:C:495:SER:HB3	1.75	0.68
4:C:1151:TYR:CD2	4:C:1181:MET:HG2	2.27	0.68
4:C:1162:LEU:CD1	4:C:1162:LEU:N	2.56	0.68
4:B:1171:THR:CG2	4:B:1172:PRO:HD2	2.20	0.68
5:A:166:VAL:HA	5:A:197:LYS:HG2	1.75	0.68
5:A:171:LYS:HB3	5:A:190:LYS:CB	2.20	0.68
5:A:449:LEU:HB2	5:A:452:GLU:HG3	1.75	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1080:PHE:CD1	5:A:1085:GLY:HA2	2.28	0.68
5:A:1156:PHE:CD2	5:A:1165:ILE:HG12	2.25	0.68
5:A:1174:PHE:O	5:A:1182:VAL:N	2.27	0.68
1:K:166:ILE:HD13	1:K:171:GLN:HB2	1.75	0.68
1:K:517:GLU:HB3	2:G:313:TYR:CG	2.27	0.68
3:E:165:ARG:HG3	3:E:269:SER:HB3	1.75	0.68
4:B:1023:CYS:O	4:B:1027:THR:HG23	1.93	0.68
5:A:402:ILE:HD12	5:A:403:ASP:N	2.08	0.68
1:K:386:SER:N	1:F:437:PHE:CD2	2.62	0.68
2:H:51:CYS:HB3	2:H:56:GLY:H	1.59	0.68
3:E:181:ASN:OD1	4:B:477:THR:OG1	2.12	0.68
4:C:846:MET:HA	4:C:871:VAL:HG12	1.75	0.68
4:B:847:VAL:O	4:B:870:THR:HA	1.94	0.68
5:A:842:ALA:HB1	5:A:863:VAL:CG1	2.22	0.68
1:K:131:LEU:HD23	1:K:131:LEU:O	1.92	0.68
1:K:304:LEU:HD12	1:K:304:LEU:H	1.58	0.68
1:K:392:TRP:C	1:K:392:TRP:CD1	2.67	0.68
2:I:187:ASP:HB3	2:I:190:HIS:HE1	1.58	0.68
1:F:457:LEU:HD13	1:F:466:TYR:CD2	2.29	0.68
4:C:219:HIS:HA	4:C:235:VAL:HG12	1.74	0.68
4:C:464:ARG:HH12	4:C:1022:ASP:HB2	1.58	0.68
5:A:323:THR:HG23	5:A:326:TRP:HB2	1.75	0.68
1:K:48:TRP:CE3	1:K:48:TRP:HA	2.28	0.68
1:K:376:MET:SD	1:K:497:PRO:HA	2.34	0.68
1:K:537:ARG:HG2	1:K:537:ARG:HH11	1.59	0.68
1:K:650:LYS:HE2	1:F:300:ILE:HD13	1.72	0.68
2:G:17:ASN:O	2:G:21:GLY:N	2.26	0.68
2:G:204:THR:HG23	2:G:267:LYS:HD3	1.74	0.68
2:G:221:MET:HA	2:G:358:ILE:HA	1.76	0.68
3:E:326:GLN:HG3	3:E:326:GLN:O	1.92	0.68
4:C:318:ARG:HG2	4:C:371:TYR:CE1	2.28	0.68
5:A:70:THR:HA	5:A:73:TYR:HD1	1.59	0.68
5:A:294:GLU:HA	5:A:299:TYR:CG	2.29	0.68
5:A:323:THR:H	5:A:326:TRP:HB3	1.58	0.68
1:K:584:ARG:CB	2:G:70:HIS:CD2	2.22	0.68
1:F:121:ASN:HB3	1:F:185:LEU:HD13	1.76	0.68
3:E:272:VAL:HG12	3:E:328:HIS:HB2	1.75	0.68
4:C:434:PHE:HB2	4:C:1256:VAL:CG1	2.24	0.68
4:C:607:VAL:O	4:C:876:ALA:HA	1.94	0.68
4:B:1074:VAL:HG22	4:B:1107:ASN:CB	2.24	0.68
5:A:911:ILE:HD13	5:A:914:LEU:HD12	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:611:ILE:C	1:K:611:ILE:HD12	2.14	0.68
2:G:292:LEU:CD2	2:G:328:MET:HA	2.22	0.68
3:E:273:MET:HG2	3:E:327:LEU:HB3	1.76	0.68
4:C:1002:GLN:HB2	4:C:1008:THR:HG22	1.75	0.68
4:C:1082:ARG:HB3	4:B:414:PRO:C	2.13	0.68
1:K:140:LEU:HD23	1:K:170:ARG:HD3	1.75	0.68
2:I:180:VAL:HG21	2:I:243:VAL:HG12	1.76	0.68
2:I:184:MET:HA	2:I:261:THR:HA	1.75	0.68
3:E:258:ASN:CA	4:C:854:ARG:CZ	2.72	0.68
4:C:352:LEU:CD2	4:C:955:LEU:HB3	2.22	0.68
4:B:257:THR:HG22	4:B:316:PHE:HB3	1.76	0.68
4:B:806:MET:HB3	4:B:891:TYR:CE2	2.28	0.68
4:B:850:THR:HG22	4:B:998:ALA:HB3	1.76	0.68
5:A:837:LEU:HD23	5:A:837:LEU:C	2.14	0.68
5:A:1157:VAL:HG22	5:A:1196:TYR:CE2	2.29	0.68
1:K:376:MET:HA	1:K:498:LEU:HG	1.76	0.67
1:K:386:SER:N	1:F:437:PHE:HD2	1.90	0.67
1:F:213:GLN:HB2	1:F:674:ALA:CB	2.23	0.67
1:F:305:VAL:HG12	5:A:882:ARG:HH21	1.53	0.67
3:E:183:PHE:HB3	4:B:500:SER:N	2.09	0.67
4:C:621:THR:HG22	4:C:782:GLN:HA	1.74	0.67
4:C:646:VAL:HG22	4:C:688:PHE:CZ	2.29	0.67
4:C:851:ARG:O	4:C:994:MET:HB2	1.93	0.67
4:C:1059:LEU:HD22	4:C:1205:ASN:HD22	1.59	0.67
4:C:1260:TYR:N	4:C:1260:TYR:CD1	2.62	0.67
4:B:353:MET:SD	4:B:955:LEU:HD23	2.33	0.67
4:B:746:GLN:HG3	5:A:155:GLN:HB3	0.69	0.67
4:B:778:ASN:ND2	4:B:780:ARG:HG3	2.09	0.67
5:A:1155:THR:CG2	5:A:1198:ILE:HG12	2.24	0.67
1:K:49:ILE:HA	1:K:56:SER:N	2.08	0.67
1:K:392:TRP:CE2	1:K:397:LYS:HG3	2.30	0.67
2:G:309:GLU:H	2:G:309:GLU:CD	1.98	0.67
3:E:184:GLY:N	4:B:500:SER:OG	2.02	0.67
4:C:520:ILE:HD12	4:C:987:LEU:HD21	1.74	0.67
5:A:948:ARG:CB	5:A:959:PRO:HA	2.24	0.67
1:K:367:VAL:CG2	1:K:467:TYR:HB3	2.23	0.67
3:E:334:ARG:HG2	3:E:404:ARG:HD3	1.77	0.67
4:C:332:ILE:HG13	4:C:336:LYS:HD2	1.75	0.67
4:C:859:GLN:HE21	4:B:440:MET:H	0.72	0.67
4:B:1112:LEU:HG	4:B:1116:GLN:NE2	2.09	0.67
1:K:49:ILE:O	1:K:64:ARG:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:101:VAL:CB	1:F:265:VAL:HG21	2.24	0.67
1:K:353:THR:HG21	2:H:61:LEU:CD2	2.25	0.67
1:K:508:ALA:H	2:G:312:ARG:C	1.91	0.67
2:H:263:PRO:HB3	2:H:267:LYS:C	2.15	0.67
2:G:290:ALA:O	2:G:294:THR:HG23	1.95	0.67
2:G:299:VAL:HG22	2:G:320:MET:HE2	1.77	0.67
3:E:360:LEU:HD23	3:E:360:LEU:O	1.95	0.67
5:A:745:GLU:HB2	5:A:750:ARG:HG2	1.75	0.67
5:A:828:LEU:HB3	5:A:872:TYR:CE1	2.29	0.67
5:A:923:LEU:HA	5:A:1019:MET:O	1.94	0.67
5:A:1198:ILE:HG13	5:A:1214:LEU:CD2	2.14	0.67
2:I:35:THR:O	2:I:153:LEU:HB2	1.95	0.67
2:G:14:LEU:HB2	2:G:45:CYS:HB3	1.75	0.67
2:G:330:GLN:HB3	2:G:334:VAL:HG13	1.76	0.67
3:E:184:GLY:CA	4:B:500:SER:HG	1.86	0.67
4:C:464:ARG:HD3	4:C:1023:CYS:SG	2.33	0.67
4:C:494:THR:N	4:C:1270:VAL:O	2.27	0.67
4:B:669:TYR:HA	4:B:673:ARG:HD2	1.77	0.67
5:A:585:HIS:O	5:A:588:LEU:HB2	1.95	0.67
5:A:609:GLY:N	5:A:659:HIS:HB2	2.08	0.67
5:A:712:GLU:OE1	5:A:712:GLU:N	2.28	0.67
1:K:145:ASP:HA	1:K:161:LYS:CA	2.17	0.67
1:K:324:ARG:NH2	1:F:436:SER:CB	2.58	0.67
4:C:1107:ASN:HA	4:C:1136:ARG:O	1.94	0.67
5:A:27:LEU:HD12	5:A:27:LEU:O	1.95	0.67
2:I:70:HIS:CD2	1:F:584:ARG:HH21	2.12	0.67
3:E:46:ILE:CG2	3:E:51:GLY:HA2	2.25	0.67
3:E:241:CYS:SG	3:E:249:GLU:HB2	2.35	0.67
4:C:237:ALA:H	4:C:248:LEU:H	1.41	0.67
4:B:468:ARG:HD2	4:B:468:ARG:O	1.95	0.67
4:B:747:PRO:CG	5:A:154:SER:N	2.57	0.67
5:A:510:GLN:HE21	5:A:573:PHE:HB2	1.58	0.67
5:A:871:ASP:HB3	5:A:874:SER:HB3	1.76	0.67
5:A:1249:ILE:CG2	5:A:1252:SER:HB3	2.24	0.67
4:C:271:ILE:HG22	4:C:272:VAL:HG23	1.77	0.67
4:B:521:ARG:O	4:B:524:ASN:ND2	2.28	0.67
5:A:353:ILE:HB	5:A:371:ARG:HA	1.77	0.67
5:A:372:LYS:CB	5:A:375:LEU:HB2	2.12	0.67
5:A:516:GLY:HA3	5:A:578:VAL:HA	1.77	0.67
5:A:633:PRO:HA	5:A:662:SER:O	1.95	0.67
5:A:642:LYS:HD2	5:A:642:LYS:C	2.14	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:68:SER:HB3	1:F:97:ASP:HA	1.75	0.67
3:E:258:ASN:OD1	4:C:1010:ASN:CG	2.33	0.67
5:A:130:TYR:HA	5:A:133:LEU:HG	1.74	0.67
5:A:456:LEU:CD1	5:A:649:VAL:HG11	2.25	0.67
5:A:519:ALA:HB1	5:A:525:ASP:HA	1.76	0.67
5:A:1231:SER:HA	5:A:1275:PRO:O	1.94	0.67
2:I:72:ARG:HB2	1:F:580:GLY:HA2	1.77	0.67
2:H:245:PRO:O	2:H:249:PHE:N	2.22	0.67
1:F:153:ARG:HB2	1:F:153:ARG:HH11	1.60	0.67
1:F:404:PHE:HD2	1:F:419:ILE:HB	1.60	0.67
4:C:718:GLN:HB2	4:C:738:VAL:CG1	2.25	0.67
4:B:719:ILE:HB	4:B:741:LEU:HD11	1.77	0.67
4:B:1044:ASP:H	4:B:1202:THR:HB	1.58	0.67
5:A:138:ILE:HD11	5:A:142:MET:HB2	1.77	0.67
5:A:221:LEU:HA	5:A:284:HIS:O	1.95	0.67
5:A:908:GLN:NE2	5:A:908:GLN:O	2.28	0.67
5:A:1045:PRO:CA	5:A:1086:GLU:HG2	2.26	0.67
1:K:49:ILE:HD13	1:K:53:ASP:CA	2.24	0.66
1:F:347:ILE:N	1:F:359:PHE:O	2.24	0.66
3:E:330:PHE:HB2	3:E:407:THR:HG23	1.76	0.66
4:C:270:PRO:HB2	4:C:299:ALA:HB2	1.76	0.66
4:C:1034:GLU:OE2	4:C:1034:GLU:HA	1.94	0.66
5:A:707:GLU:N	5:A:756:SER:O	2.27	0.66
1:K:584:ARG:NE	2:G:70:HIS:CD2	2.63	0.66
2:I:70:HIS:HB3	1:F:584:ARG:N	2.10	0.66
2:I:196:ARG:NH2	2:I:355:PRO:HD3	2.10	0.66
4:C:301:VAL:HG13	4:C:1209:LEU:HD13	1.76	0.66
4:C:338:LEU:HD13	4:C:968:TRP:CE3	2.30	0.66
4:C:1046:ILE:HB	4:C:1200:ILE:HG12	1.77	0.66
5:A:240:GLN:HB2	5:A:250:ASN:HA	1.76	0.66
5:A:606:THR:HB	5:A:659:HIS:HE1	1.61	0.66
5:A:700:GLY:HA2	5:A:758:ARG:NH2	2.10	0.66
1:K:352:ASN:HB3	2:H:64:LYS:CD	2.24	0.66
2:I:156:VAL:CG1	2:I:159:LEU:HB2	2.26	0.66
2:H:122:ARG:CD	2:H:177:SER:HA	2.25	0.66
1:F:147:TYR:HA	1:F:159:PHE:HA	1.77	0.66
3:E:196:GLN:OE1	4:B:508:ARG:CD	2.39	0.66
4:C:516:ILE:O	4:C:520:ILE:HG12	1.96	0.66
4:C:1082:ARG:CG	4:B:413:THR:HB	2.25	0.66
4:B:522:ILE:HA	4:B:525:ILE:HG12	1.75	0.66
5:A:200:TYR:HA	5:A:232:HIS:HA	1.75	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:271:ARG:HB2	5:A:274:GLN:CB	2.26	0.66
1:K:216:VAL:HA	1:K:219:LEU:HD12	1.77	0.66
1:K:506:LYS:HD3	2:G:310:LYS:C	1.65	0.66
2:G:5:LEU:CD1	2:G:6:PRO:HD2	2.25	0.66
4:C:394:LEU:CG	4:C:395:PRO:HD2	2.26	0.66
4:C:1081:CYS:HA	4:C:1095:ARG:HD3	1.75	0.66
5:A:438:TYR:HA	5:A:641:ILE:HA	1.77	0.66
5:A:836:ILE:HA	5:A:839:LEU:HD12	1.77	0.66
1:K:325:THR:CA	1:F:442:ILE:HD11	2.23	0.66
2:I:315:LEU:O	2:I:323:TRP:HB2	1.94	0.66
2:H:140:SER:O	2:H:144:SER:N	2.28	0.66
2:G:87:PHE:HA	2:G:149:TRP:CZ3	2.31	0.66
1:F:302:ALA:HB1	1:F:625:ILE:HG12	1.76	0.66
4:C:451:PHE:CE2	4:C:1256:VAL:HG22	2.30	0.66
4:C:713:TRP:CZ3	4:C:714:PRO:HD2	2.28	0.66
4:C:896:VAL:HB	4:C:899:VAL:HB	1.78	0.66
5:A:548:ARG:HG3	5:A:571:TYR:CE2	2.30	0.66
2:H:234:LYS:HA	2:H:238:TYR:HD2	1.59	0.66
4:C:573:PRO:HA	4:C:623:LEU:HD21	1.76	0.66
4:C:647:LYS:HA	4:C:675:ALA:HB1	1.76	0.66
4:C:862:LEU:H	4:B:443:ALA:CB	2.07	0.66
4:C:1158:ASN:HD21	4:C:1160:TRP:HB3	1.59	0.66
4:B:332:ILE:HD12	4:B:335:PHE:HB2	1.78	0.66
4:B:1074:VAL:HG12	4:B:1109:ILE:HG12	1.75	0.66
3:E:243:ARG:NH2	4:B:435:ASP:OD1	2.29	0.66
4:C:264:THR:HG22	4:C:311:ALA:HB3	1.76	0.66
4:C:1093:MET:HB2	4:C:1101:MET:HB2	1.76	0.66
4:B:529:ALA:O	4:B:532:ILE:HG22	1.95	0.66
5:A:47:ARG:HA	5:A:54:ILE:HA	1.78	0.66
5:A:242:VAL:HG22	5:A:242:VAL:O	1.94	0.66
5:A:425:ASP:HB2	5:A:793:VAL:HG13	1.78	0.66
1:K:203:VAL:CG1	1:K:207:GLU:HA	2.23	0.66
2:H:50:VAL:HG22	2:H:57:VAL:CG2	2.25	0.66
2:G:17:ASN:HB2	2:G:23:VAL:HG13	1.78	0.66
2:G:52:MET:HA	2:G:52:MET:HE3	1.75	0.66
1:F:275:SER:HA	1:F:651:LEU:CD1	2.23	0.66
1:F:368:VAL:HB	1:F:468:LEU:HB3	1.78	0.66
3:E:81:ARG:HD3	3:E:117:LEU:HD13	1.78	0.66
4:C:573:PRO:CA	4:C:623:LEU:HD21	2.26	0.66
4:C:1049:ARG:HG3	4:C:1196:VAL:CG1	2.25	0.66
5:A:112:ASN:ND2	5:A:142:MET:HG3	2.11	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:165:GLU:HA	5:A:198:ALA:O	1.95	0.66
5:A:509:ARG:HA	5:A:545:SER:H	1.61	0.66
5:A:1257:LEU:HD12	5:A:1258:PRO:HD2	1.78	0.66
1:K:321:TYR:HB3	1:K:326:LEU:HD21	1.76	0.66
2:I:281:LYS:HB3	2:I:283:TYR:CE1	2.30	0.66
3:E:213:THR:HB	3:E:291:LEU:HD21	1.78	0.66
4:C:731:ASN:HB2	4:C:736:PRO:CA	2.24	0.66
4:C:937:GLN:OE1	4:C:937:GLN:HA	1.96	0.66
4:B:433:ARG:HD2	4:B:436:ARG:HB3	1.76	0.66
4:B:1159:ALA:O	4:B:1163:THR:HG23	1.96	0.66
5:A:403:ASP:CB	5:A:774:LEU:HD12	2.25	0.66
5:A:706:ILE:HA	5:A:757:ARG:HA	1.78	0.66
5:A:1043:VAL:HG12	5:A:1045:PRO:HD3	1.76	0.66
5:A:1152:ARG:HD3	5:A:1201:VAL:HG23	1.78	0.66
2:I:204:THR:HG21	2:I:221:MET:SD	2.36	0.66
2:H:109:MET:CE	2:H:129:VAL:HG13	2.26	0.66
2:G:218:TRP:N	2:G:266:GLY:HA2	2.11	0.66
3:E:241:CYS:HB3	3:E:251:TRP:CE3	2.31	0.66
3:E:413:ALA:O	3:E:417:LEU:HG	1.96	0.66
4:B:391:LEU:HD23	4:B:403:TYR:CD2	2.31	0.66
4:B:1083:ILE:HG12	4:B:1094:ILE:CG1	2.23	0.66
5:A:849:VAL:HG22	5:A:868:LEU:HB2	1.78	0.66
2:I:158:ASP:HB2	2:I:162:LYS:HE3	1.79	0.65
2:I:219:GLY:HA3	2:I:358:ILE:HD13	1.78	0.65
1:F:50:ALA:HA	1:F:63:LEU:HD23	1.78	0.65
3:E:108:PRO:HD2	3:E:111:VAL:HB	1.77	0.65
3:E:183:PHE:CD2	4:B:499:PRO:HB3	2.31	0.65
4:B:285:PHE:HE2	4:B:1217:PRO:HD3	1.61	0.65
4:B:307:HIS:CG	4:B:310:TRP:HB3	2.31	0.65
5:A:562:LEU:HD12	5:A:578:VAL:HG21	1.78	0.65
5:A:842:ALA:HB1	5:A:863:VAL:HG13	1.78	0.65
5:A:949:TYR:N	5:A:958:GLU:O	2.23	0.65
5:A:1042:LEU:HB2	5:A:1089:LEU:CB	2.24	0.65
5:A:1098:ILE:HG12	5:A:1118:VAL:CG2	2.16	0.65
1:K:49:ILE:CD1	1:K:53:ASP:HB3	2.16	0.65
1:K:461:ASP:HB3	1:K:464:MET:HG2	1.78	0.65
2:I:317:PRO:HD2	2:I:326:ARG:NH2	2.12	0.65
2:H:219:GLY:HA3	2:H:358:ILE:HD13	1.77	0.65
5:A:353:ILE:HB	5:A:371:ARG:CA	2.26	0.65
5:A:1170:LYS:HG3	5:A:1268:ILE:HG23	1.78	0.65
1:K:50:ALA:HA	1:K:57:VAL:CG2	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:408:ILE:HG21	1:K:418:GLN:NE2	2.08	0.65
1:K:450:TYR:HE2	1:K:452:TYR:HB2	1.60	0.65
1:F:344:LEU:HD21	1:F:480:PRO:CB	2.25	0.65
1:F:435:SER:OG	1:F:440:GLN:HB2	1.96	0.65
3:E:170:MET:HA	3:E:211:ARG:HE	1.61	0.65
3:E:186:THR:HG22	3:E:252:ILE:CD1	2.27	0.65
3:E:236:THR:O	3:E:255:CYS:HA	1.95	0.65
4:C:490:TYR:CE2	4:C:898:ASN:HA	2.32	0.65
4:B:266:PHE:HA	4:B:306:VAL:HA	1.78	0.65
4:B:719:ILE:CG2	4:B:739:LEU:HB3	2.26	0.65
1:K:284:LYS:HE2	1:K:288:GLN:HG3	1.77	0.65
2:I:290:ALA:O	2:I:294:THR:HG23	1.97	0.65
2:H:198:GLU:H	2:H:201:ALA:HB3	1.60	0.65
2:G:181:PRO:HB3	2:G:183:PHE:CZ	2.31	0.65
4:C:399:ALA:O	4:C:403:TYR:N	2.30	0.65
4:C:659:PHE:CE2	4:C:781:TYR:HA	2.32	0.65
4:C:1081:CYS:HB2	4:C:1095:ARG:O	1.95	0.65
4:B:285:PHE:CE2	4:B:1217:PRO:HD3	2.30	0.65
4:B:601:ASN:HD22	4:B:601:ASN:H	1.43	0.65
4:B:947:ARG:HB3	4:B:950:ASP:OD1	1.97	0.65
1:K:202:ASN:ND2	1:F:633:THR:CB	2.59	0.65
1:K:470:ALA:C	1:K:488:VAL:HG22	2.17	0.65
2:I:141:MET:CA	2:I:147:SER:HB2	2.27	0.65
2:G:26:TYR:HB2	2:G:32:TRP:CD2	2.32	0.65
2:G:118:LEU:O	2:G:122:ARG:HG2	1.96	0.65
1:F:336:MET:CG	1:F:366:ARG:HG2	2.26	0.65
3:E:372:LEU:HD12	3:E:402:TRP:CH2	2.32	0.65
4:B:267:LYS:N	4:B:305:VAL:O	2.29	0.65
4:B:1056:TRP:CB	4:B:1062:PRO:HD3	2.26	0.65
5:A:44:LYS:HB3	5:A:58:GLN:HB3	1.79	0.65
5:A:907:PHE:O	5:A:911:ILE:HG12	1.97	0.65
5:A:981:TRP:HD1	5:A:1118:VAL:HG23	1.61	0.65
1:K:399:VAL:HG12	1:K:472:PHE:HA	1.76	0.65
2:H:5:LEU:HD22	2:H:6:PRO:HD2	1.78	0.65
2:G:247:ARG:N	2:G:247:ARG:HD3	2.12	0.65
2:G:290:ALA:HA	2:G:293:LYS:HE2	1.76	0.65
3:E:86:TRP:CG	3:E:99:PRO:HA	2.32	0.65
4:C:282:ALA:HB3	4:C:289:SER:HB2	1.77	0.65
4:B:1069:ARG:HA	4:B:1109:ILE:HG13	1.77	0.65
4:B:1094:ILE:HB	4:B:1104:PHE:CE1	2.24	0.65
5:A:227:PRO:HB2	5:A:230:GLY:CA	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:609:GLY:HA2	5:A:660:GLN:CG	2.26	0.65
5:A:1096:ALA:HB1	5:A:1119:VAL:O	1.97	0.65
1:K:566:VAL:CG2	1:K:567:PRO:CD	2.69	0.65
2:G:61:LEU:HB3	1:F:425:VAL:O	1.97	0.65
2:G:199:GLY:N	2:G:202:ARG:HB2	2.12	0.65
4:C:1175:ILE:CG1	4:C:1176:PRO:CD	2.62	0.65
4:B:1094:ILE:N	4:B:1102:VAL:O	2.26	0.65
5:A:434:ALA:CB	5:A:645:VAL:HG22	2.26	0.65
1:K:105:GLU:CD	1:K:105:GLU:N	2.50	0.65
1:K:506:LYS:CG	2:G:310:LYS:HA	2.03	0.65
1:K:506:LYS:CE	2:G:310:LYS:CA	2.45	0.65
1:K:508:ALA:CA	2:G:312:ARG:O	2.44	0.65
2:I:221:MET:HG2	2:I:358:ILE:CG1	2.27	0.65
1:F:49:ILE:HG22	1:F:66:MET:HA	1.79	0.65
1:F:53:ASP:OD1	5:A:345:TRP:CD1	2.50	0.65
1:F:98:GLU:CG	1:F:99:PRO:CD	2.75	0.65
1:F:358:HIS:HB2	1:F:477:ALA:HA	1.77	0.65
4:C:263:CYS:SG	4:C:458:THR:HG21	2.36	0.65
4:B:1131:LYS:HD2	4:B:1160:TRP:NE1	2.11	0.65
5:A:456:LEU:HD12	5:A:457:PRO:CD	2.24	0.65
5:A:1230:LEU:O	5:A:1276:THR:HA	1.96	0.65
5:A:1257:LEU:HD11	5:A:1261:TRP:HB3	1.79	0.65
1:K:189:GLU:HA	1:K:189:GLU:OE2	1.97	0.65
2:I:25:ILE:HG23	2:I:40:PRO:HB3	1.79	0.65
2:I:261:THR:O	2:I:269:PRO:HB3	1.97	0.65
2:H:196:ARG:NH2	2:H:355:PRO:HD3	2.12	0.65
2:H:223:TYR:OH	2:H:351:ASP:HB3	1.96	0.65
4:C:270:PRO:HG3	4:C:297:PRO:HB3	1.79	0.65
4:C:716:PRO:HD2	4:C:837:ARG:HD2	1.77	0.65
4:B:747:PRO:HG2	5:A:154:SER:H	1.60	0.65
4:B:973:MET:HA	4:B:973:MET:CE	2.27	0.65
5:A:576:SER:HB3	5:A:614:VAL:HA	1.79	0.65
1:K:213:GLN:CB	1:K:675:PRO:HD2	2.12	0.65
1:K:250:MET:CA	1:K:257:VAL:HG22	2.26	0.65
4:C:502:ASN:HB2	4:C:1262:TYR:CA	2.21	0.65
4:C:701:ILE:HD13	4:C:704:GLN:HE22	1.61	0.65
4:C:836:VAL:HB	4:C:839:ASP:CB	2.26	0.65
5:A:478:ILE:HG21	5:A:645:VAL:CG1	2.25	0.65
5:A:609:GLY:HA2	5:A:660:GLN:HG3	1.78	0.65
5:A:923:LEU:HG	5:A:1020:ARG:HA	1.78	0.65
1:K:312:PHE:CE2	1:K:535:ALA:HB1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:17:ASN:O	2:I:22:ARG:HG2	1.97	0.64
2:I:69:PRO:CA	1:F:583:VAL:O	2.45	0.64
2:I:220:VAL:HG13	2:I:264:ILE:HG23	1.78	0.64
2:G:288:GLY:HA2	2:G:291:LYS:CE	2.27	0.64
1:F:319:ALA:HB3	1:F:532:PRO:HG3	1.79	0.64
4:B:433:ARG:HA	4:B:450:VAL:HB	1.79	0.64
5:A:211:PHE:HA	5:A:214:HIS:HB3	1.79	0.64
5:A:1173:PHE:CD2	5:A:1183:MET:HB2	2.31	0.64
5:A:1240:VAL:HG23	5:A:1250:LEU:HG	1.79	0.64
2:I:206:PHE:HD2	2:I:267:LYS:HB3	1.62	0.64
4:C:1157:ALA:HB3	4:C:1195:ALA:CB	2.28	0.64
4:C:1212:THR:HG23	4:C:1225:LYS:CB	2.26	0.64
1:K:579:THR:HG22	2:G:70:HIS:ND1	2.12	0.64
2:G:90:ARG:NH2	2:G:152:PRO:HA	2.11	0.64
2:G:225:TYR:HB3	2:G:228:LEU:HD23	1.80	0.64
4:C:811:LEU:O	4:C:816:PRO:HD3	1.96	0.64
4:C:1210:PHE:CE1	4:C:1228:PRO:HD2	2.32	0.64
4:B:837:ARG:N	5:A:238:LEU:HD13	2.12	0.64
5:A:101:TYR:HB3	5:A:106:TYR:CE1	2.32	0.64
5:A:635:ILE:HG21	5:A:655:ALA:HB1	1.79	0.64
5:A:911:ILE:HG13	5:A:969:ILE:HG21	1.78	0.64
5:A:1156:PHE:CA	5:A:1165:ILE:HA	2.26	0.64
1:K:435:SER:H	1:K:441:SER:HA	1.62	0.64
1:K:522:TYR:O	1:K:612:THR:HA	1.97	0.64
2:G:258:SER:HB2	2:G:343:PHE:CD1	2.33	0.64
3:E:8:PHE:O	3:E:125:TYR:N	2.20	0.64
3:E:231:GLN:CA	3:E:259:HIS:HB3	2.27	0.64
4:C:1112:LEU:HD11	4:C:1175:ILE:HD12	1.79	0.64
4:C:1170:ILE:HA	4:C:1176:PRO:HD3	1.80	0.64
5:A:1045:PRO:CB	5:A:1086:GLU:HG2	2.27	0.64
1:K:581:TYR:CD1	2:G:72:ARG:C	2.69	0.64
4:C:332:ILE:HA	4:C:335:PHE:HD1	1.62	0.64
4:C:754:THR:HB	4:C:804:LYS:HB3	1.80	0.64
4:B:339:LEU:HD21	4:B:964:THR:HG21	1.79	0.64
4:B:691:ILE:H	4:B:691:ILE:CD1	2.06	0.64
4:B:850:THR:CG2	4:B:998:ALA:HB3	2.26	0.64
5:A:616:ILE:N	5:A:651:LEU:O	2.30	0.64
5:A:721:GLN:CA	5:A:721:GLN:NE2	2.61	0.64
5:A:947:LYS:HB3	5:A:960:TYR:CE1	2.33	0.64
5:A:1142:ASP:CB	5:A:1182:VAL:HG11	2.26	0.64
1:K:248:GLN:HB2	1:K:257:VAL:CG1	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:525:GLU:H	1:K:525:GLU:CD	2.00	0.64
2:G:141:MET:HA	2:G:147:SER:HB2	1.78	0.64
3:E:176:ASN:C	3:E:176:ASN:HD22	2.01	0.64
4:C:283:TYR:CD1	4:C:290:TYR:HB2	2.32	0.64
4:C:807:THR:N	4:C:808:PRO:HD2	2.13	0.64
4:C:1151:TYR:C	4:C:1151:TYR:CD1	2.71	0.64
4:C:1162:LEU:H	4:C:1162:LEU:HD12	1.60	0.64
4:B:352:LEU:CB	4:B:955:LEU:HB3	2.27	0.64
4:B:1171:THR:HG23	4:B:1172:PRO:CD	2.21	0.64
1:K:323:VAL:HA	1:K:326:LEU:HG	1.80	0.64
1:K:522:TYR:CE1	1:K:536:ALA:HB2	2.33	0.64
1:K:650:LYS:HD2	1:F:299:GLU:HB2	1.79	0.64
2:I:330:GLN:HB3	2:I:334:VAL:CG1	2.25	0.64
2:H:63:ARG:H	2:H:63:ARG:HD2	1.62	0.64
4:C:856:THR:CG2	4:C:942:GLN:HG3	2.27	0.64
4:B:810:TYR:HB2	4:B:891:TYR:HE1	1.62	0.64
5:A:159:SER:HB3	5:A:164:LEU:HD12	1.80	0.64
5:A:172:TYR:O	5:A:191:ASP:HA	1.97	0.64
5:A:456:LEU:HA	5:A:678:PHE:HE2	1.61	0.64
1:K:573:ALA:O	1:K:577:LEU:HG	1.98	0.64
2:G:127:SER:HA	2:G:364:LEU:HA	1.79	0.64
1:F:433:GLU:O	1:F:442:ILE:N	2.26	0.64
3:E:25:LEU:O	3:E:29:LEU:HG	1.97	0.64
5:A:485:LYS:HE3	5:A:643:PRO:HG2	1.79	0.64
5:A:594:LEU:O	5:A:598:LEU:HG	1.98	0.64
5:A:680:ARG:O	5:A:684:LEU:HG	1.98	0.64
5:A:703:VAL:O	5:A:758:ARG:HG3	1.98	0.64
1:K:647:ALA:O	1:K:651:LEU:HG	1.98	0.64
1:F:520:GLY:N	1:F:610:ILE:O	2.29	0.64
3:E:2:ALA:HB2	3:E:205:HIS:HB3	1.80	0.64
3:E:201:ARG:CB	3:E:201:ARG:HH11	2.11	0.64
5:A:257:LEU:HD21	5:A:327:LEU:HD11	1.79	0.64
5:A:515:PHE:HB3	5:A:578:VAL:CG2	2.28	0.64
5:A:768:ARG:HG2	5:A:768:ARG:O	1.96	0.64
5:A:824:VAL:HA	5:A:845:PRO:HG2	1.80	0.64
5:A:1216:LEU:H	5:A:1216:LEU:CD1	1.97	0.64
1:K:153:ARG:CD	1:F:132:SER:O	2.45	0.64
1:K:338:PRO:HD3	1:K:411:GLU:HG3	1.80	0.64
3:E:162:SER:O	3:E:271:PHE:HA	1.97	0.64
3:E:331:GLN:CB	3:E:404:ARG:HA	2.25	0.64
4:C:573:PRO:HB2	4:C:627:TRP:CZ2	2.32	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:761:LEU:HD12	4:C:808:PRO:CB	2.27	0.64
4:B:320:SER:O	4:B:368:ASP:HB2	1.97	0.64
4:B:1075:HIS:H	4:B:1108:TRP:HA	1.63	0.64
5:A:279:LEU:HB3	5:A:361:VAL:CG2	2.26	0.64
5:A:1052:VAL:HG21	5:A:1066:GLU:HB2	1.78	0.64
1:K:48:TRP:HA	1:K:48:TRP:HE3	1.63	0.63
1:K:48:TRP:HB2	1:K:155:ALA:CB	2.27	0.63
1:K:328:ILE:HA	1:K:334:LEU:HB3	1.79	0.63
1:K:368:VAL:N	1:K:468:LEU:O	2.29	0.63
1:F:392:TRP:CE3	1:F:483:MET:HB2	2.33	0.63
4:C:573:PRO:CB	4:C:623:LEU:HD21	2.27	0.63
5:A:1127:THR:HB	5:A:1146:THR:OG1	1.97	0.63
2:H:122:ARG:NE	2:H:177:SER:HA	2.12	0.63
2:G:144:SER:HB3	2:G:147:SER:HB2	1.80	0.63
4:C:551:ILE:HG22	4:C:553:PRO:HD3	1.79	0.63
4:C:1082:ARG:CB	4:B:414:PRO:O	2.45	0.63
4:C:1104:PHE:H	4:C:1104:PHE:HD1	1.47	0.63
4:C:1171:THR:CG2	4:C:1172:PRO:CD	2.71	0.63
4:B:601:ASN:HD22	4:B:601:ASN:N	1.93	0.63
4:B:1056:TRP:CG	4:B:1062:PRO:HD3	2.33	0.63
4:B:1078:GLY:H	4:B:1097:GLU:HB2	1.64	0.63
5:A:200:TYR:HE2	5:A:229:ASN:H	1.47	0.63
5:A:1056:TYR:HA	5:A:1062:ALA:H	1.63	0.63
1:K:615:ALA:HB1	1:K:618:LEU:HD12	1.81	0.63
2:G:218:TRP:HB2	2:G:267:LYS:HE2	1.79	0.63
4:C:853:SER:N	4:C:995:THR:HB	2.12	0.63
4:B:352:LEU:HB3	4:B:955:LEU:CB	2.28	0.63
5:A:616:ILE:CB	5:A:651:LEU:HB2	2.24	0.63
5:A:704:THR:HG23	5:A:759:SER:HA	1.80	0.63
5:A:828:LEU:HB2	5:A:888:CYS:CA	2.18	0.63
1:K:55:THR:CA	1:K:63:LEU:HD22	2.28	0.63
1:K:248:GLN:HE21	1:K:257:VAL:HG12	1.64	0.63
1:K:324:ARG:NH2	1:F:436:SER:HA	2.10	0.63
1:K:428:VAL:HG13	1:K:448:LEU:CD1	2.27	0.63
1:K:508:ALA:CB	2:G:312:ARG:CA	2.00	0.63
1:K:559:ASP:HA	1:K:597:SER:CB	2.28	0.63
1:K:567:PRO:O	1:K:571:GLN:HG2	1.98	0.63
2:H:10:GLN:CA	2:H:46:GLY:HA3	2.27	0.63
3:E:46:ILE:HB	3:E:51:GLY:HA2	1.79	0.63
4:C:521:ARG:HD2	4:C:828:PHE:CD1	2.33	0.63
4:B:1106:GLY:O	4:B:1135:LEU:HA	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:133:LEU:N	5:A:134:PRO:HD2	2.12	0.63
5:A:423:ARG:HB2	5:A:697:VAL:CG2	2.28	0.63
5:A:830:THR:HG21	5:A:848:CYS:CB	2.27	0.63
5:A:1020:ARG:C	5:A:1020:ARG:HD3	2.19	0.63
1:K:344:LEU:HD21	1:K:480:PRO:CB	2.26	0.63
2:I:70:HIS:NE2	1:F:584:ARG:NH2	2.46	0.63
2:H:100:LEU:HB2	2:H:159:LEU:HD12	1.79	0.63
1:F:632:LYS:HE2	1:F:636:ARG:HH21	1.63	0.63
3:E:259:HIS:N	4:C:854:ARG:NH2	2.27	0.63
4:B:246:GLN:HE22	4:B:982:MET:H	1.47	0.63
4:B:265:SER:O	4:B:307:HIS:N	2.31	0.63
4:B:1266:PRO:HG2	4:B:1269:ALA:HB2	1.81	0.63
5:A:927:ASN:HB3	5:A:949:TYR:CE1	2.32	0.63
1:K:318:PRO:HA	1:K:497:PRO:HD3	1.81	0.63
1:K:359:PHE:HZ	1:K:402:ILE:HG21	1.63	0.63
1:K:387:TYR:O	1:K:394:PRO:HB3	1.97	0.63
1:K:392:TRP:CA	2:H:277:THR:O	2.27	0.63
1:K:404:PHE:HA	1:K:422:ALA:CA	2.25	0.63
2:I:339:ALA:HA	2:I:342:MET:CG	2.28	0.63
1:F:102:VAL:HG22	1:F:163:VAL:HG11	1.79	0.63
1:F:375:PRO:HA	1:F:452:TYR:O	1.97	0.63
3:E:192:TYR:CZ	4:B:471:ARG:CA	2.78	0.63
4:C:381:ASP:N	4:C:389:ALA:O	2.31	0.63
4:C:531:VAL:O	4:C:534:PRO:HD2	1.98	0.63
4:C:813:GLN:C	4:C:816:PRO:HD2	2.19	0.63
4:B:1095:ARG:HG2	4:B:1099:GLY:HA2	1.80	0.63
5:A:5:TRP:HD1	5:A:337:ASP:HA	1.62	0.63
1:K:409:PRO:HB2	1:K:412:LEU:HB2	1.81	0.63
2:I:312:ARG:O	1:F:506:LYS:HB3	1.58	0.63
2:H:125:GLY:HA2	2:H:236:ARG:HH11	1.62	0.63
4:C:713:TRP:CZ3	4:C:714:PRO:CD	2.82	0.63
5:A:24:GLN:H	5:A:24:GLN:NE2	1.96	0.63
5:A:529:VAL:O	5:A:532:PRO:HD2	1.99	0.63
5:A:599:LEU:HD12	5:A:626:TYR:HE2	1.63	0.63
1:K:473:ILE:O	1:K:473:ILE:HG13	1.97	0.63
3:E:178:LEU:HD22	4:B:477:THR:CG2	2.23	0.63
3:E:369:ARG:HA	3:E:402:TRP:CZ2	2.34	0.63
4:C:285:PHE:HB3	4:C:290:TYR:CE1	2.32	0.63
4:C:508:ARG:HA	4:C:508:ARG:NE	2.13	0.63
4:B:381:ASP:HB3	4:B:388:GLY:HA2	1.81	0.63
4:B:928:VAL:HG22	4:B:987:LEU:HD11	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:628:GLU:CA	5:A:632:LEU:HG	2.25	0.63
5:A:825:VAL:HB	5:A:846:VAL:HG12	1.79	0.63
5:A:832:PRO:HA	5:A:854:THR:CA	2.29	0.63
5:A:1056:TYR:N	5:A:1056:TYR:CD1	2.66	0.63
5:A:1216:LEU:HD12	5:A:1216:LEU:N	2.03	0.63
1:K:127:LYS:HE3	1:K:232:TYR:CD2	2.33	0.63
4:C:681:PRO:HA	4:C:684:TRP:CD1	2.33	0.63
4:C:740:LEU:HB3	4:C:835:TYR:CE1	2.34	0.63
4:C:1082:ARG:CB	4:B:414:PRO:C	2.68	0.63
4:B:1109:ILE:CD1	4:B:1138:ARG:HB3	2.29	0.63
5:A:9:LEU:HD22	5:A:314:LEU:HA	1.80	0.63
5:A:613:VAL:HG22	5:A:654:VAL:HG13	1.81	0.63
5:A:741:ILE:HG22	5:A:754:ILE:HG23	1.80	0.63
1:K:166:ILE:HG13	1:K:170:ARG:HH11	1.63	0.62
1:K:328:ILE:HG21	1:K:336:MET:HB3	1.81	0.62
1:K:457:LEU:HD13	1:K:466:TYR:CD2	2.34	0.62
2:I:49:VAL:HG11	2:I:65:LEU:HD12	1.79	0.62
2:H:50:VAL:HA	2:H:57:VAL:HG22	1.81	0.62
2:H:118:LEU:O	2:H:122:ARG:HG2	1.99	0.62
2:G:290:ALA:HA	2:G:293:LYS:CE	2.29	0.62
4:C:1126:PHE:O	4:C:1130:ILE:N	2.28	0.62
4:B:999:ILE:HG23	4:B:1011:VAL:HB	1.80	0.62
5:A:700:GLY:HA2	5:A:758:ARG:CZ	2.29	0.62
5:A:1196:TYR:O	5:A:1214:LEU:N	2.31	0.62
1:K:55:THR:HG21	1:K:147:TYR:HB2	1.72	0.62
1:K:344:LEU:HD13	1:K:362:ARG:HB2	1.81	0.62
2:G:132:ASN:HD21	2:G:134:LEU:HD12	1.63	0.62
1:F:376:MET:SD	1:F:497:PRO:HA	2.39	0.62
3:E:360:LEU:HD23	3:E:360:LEU:C	2.20	0.62
4:C:222:GLU:HB2	4:C:1268:THR:HG22	1.79	0.62
4:B:375:HIS:HA	4:B:1259:ARG:CB	2.24	0.62
4:B:427:VAL:HG21	4:B:1238:PRO:HA	1.80	0.62
4:B:757:PHE:CZ	4:B:804:LYS:HA	2.34	0.62
5:A:1032:GLY:HA3	5:A:1041:SER:H	1.63	0.62
1:K:63:LEU:HD12	1:K:152:ALA:HB1	1.82	0.62
2:H:116:GLU:H	2:H:116:GLU:CD	2.03	0.62
2:H:130:GLU:HG2	2:H:362:MET:HB3	1.80	0.62
2:H:184:MET:HG2	2:H:261:THR:HA	1.79	0.62
2:H:303:ASN:ND2	2:H:320:MET:HB3	2.12	0.62
1:F:510:VAL:HG21	1:F:513:VAL:HG22	1.80	0.62
3:E:305:ASP:N	3:E:324:GLY:HA3	2.14	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:681:TYR:C	5:A:681:TYR:CD2	2.71	0.62
1:K:122:ARG:NH1	1:K:122:ARG:HB2	2.14	0.62
1:K:344:LEU:HD13	1:K:362:ARG:CB	2.29	0.62
1:K:367:VAL:HG21	1:K:467:TYR:HB3	1.80	0.62
1:K:380:LEU:HB2	1:K:401:PHE:CZ	2.33	0.62
1:K:584:ARG:CD	2:G:70:HIS:CD2	2.82	0.62
1:K:668:VAL:O	1:K:672:PHE:N	2.29	0.62
2:H:171:ASN:HB3	2:H:252:PHE:CG	2.35	0.62
2:G:10:GLN:HG2	2:G:46:GLY:HA3	1.81	0.62
1:F:124:PHE:CD2	1:F:185:LEU:HD23	2.30	0.62
1:F:212:MET:O	1:F:212:MET:HE3	2.00	0.62
3:E:201:ARG:NH1	3:E:201:ARG:CB	2.62	0.62
2:G:48:ALA:HB1	2:G:57:VAL:CG1	2.29	0.62
2:G:179:LEU:CB	2:G:363:ILE:HG22	2.29	0.62
1:F:298:PRO:HA	1:F:301:ILE:HG12	1.81	0.62
3:E:43:LEU:HD13	3:E:286:ILE:HD11	1.80	0.62
3:E:229:HIS:CD2	3:E:231:GLN:HB2	2.34	0.62
4:C:434:PHE:N	4:C:449:ASP:O	2.31	0.62
4:C:632:LEU:O	4:C:636:LEU:HG	1.99	0.62
4:C:691:ILE:HD12	4:C:691:ILE:N	2.14	0.62
4:C:932:VAL:O	4:C:935:VAL:HG12	1.99	0.62
5:A:361:VAL:O	5:A:365:THR:HG23	1.98	0.62
5:A:531:GLU:HB3	5:A:532:PRO:HD3	1.80	0.62
5:A:1102:GLN:HA	5:A:1113:SER:HA	1.80	0.62
1:K:145:ASP:OD1	1:K:145:ASP:N	2.32	0.62
1:F:304:LEU:HD11	1:F:625:ILE:CD1	2.30	0.62
1:F:513:VAL:HG11	1:F:518:LEU:HD21	1.80	0.62
4:C:265:SER:HA	4:C:308:THR:HA	1.81	0.62
4:C:666:ASN:OD1	4:C:668:ILE:HB	2.00	0.62
4:B:416:VAL:O	4:B:416:VAL:HG12	1.99	0.62
4:B:857:ILE:CG2	4:B:862:LEU:HB2	2.30	0.62
4:B:984:LEU:HD22	4:B:987:LEU:HD12	1.81	0.62
5:A:1045:PRO:CA	5:A:1086:GLU:HA	2.28	0.62
1:K:102:VAL:HG13	1:K:163:VAL:HG13	1.82	0.62
3:E:372:LEU:HD12	3:E:402:TRP:HH2	1.63	0.62
4:C:892:PRO:HD2	4:C:895:LEU:HD22	1.80	0.62
4:C:1110:PHE:O	4:C:1139:ILE:HA	1.99	0.62
1:K:272:PRO:CB	1:K:278:PRO:HD3	2.30	0.62
1:K:370:LEU:O	1:K:373:ILE:HG12	1.99	0.62
2:I:263:PRO:HB3	2:I:269:PRO:CD	2.29	0.62
2:H:143:ARG:HG2	2:H:143:ARG:HH11	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:154:GLN:O	1:F:158:ASN:N	2.32	0.62
3:E:161:ILE:CG2	3:E:327:LEU:HB3	2.30	0.62
4:B:1156:TYR:HA	4:B:1194:PRO:O	1.98	0.62
5:A:395:GLN:HB2	5:A:738:ARG:CZ	2.30	0.62
5:A:422:LEU:C	5:A:422:LEU:HD12	2.20	0.62
1:K:352:ASN:CG	2:H:64:LYS:CD	2.67	0.62
1:K:398:LYS:HG2	1:K:429:GLN:HB2	1.81	0.62
1:K:650:LYS:HE2	1:F:300:ILE:CD1	2.25	0.62
2:I:272:PHE:CE2	2:I:282:MET:HB2	2.35	0.62
1:F:453:GLU:HB2	1:F:456:GLN:HG2	1.81	0.62
4:B:563:VAL:CG1	4:B:574:ALA:HB2	2.29	0.62
4:B:849:VAL:HG12	4:B:999:ILE:HG13	1.80	0.62
4:B:1083:ILE:HD13	4:B:1104:PHE:CZ	2.34	0.62
4:B:1151:TYR:CD2	4:B:1181:MET:HG2	2.34	0.62
4:B:1163:THR:HG21	4:B:1198:TYR:HB2	1.82	0.62
5:A:226:LYS:HB2	5:A:278:ARG:HD3	1.81	0.62
5:A:527:PRO:HD2	5:A:530:ILE:HD12	1.81	0.62
5:A:574:VAL:HB	5:A:612:PHE:HB2	1.82	0.62
1:K:51:ILE:HA	1:K:64:ARG:HD3	1.82	0.62
1:K:201:THR:HG22	1:K:201:THR:O	2.00	0.62
1:K:408:ILE:H	1:K:408:ILE:CD1	2.12	0.62
2:I:70:HIS:HB3	1:F:584:ARG:HB2	1.82	0.62
2:G:22:ARG:CZ	2:G:22:ARG:HB2	2.30	0.62
3:E:90:ARG:HD2	3:E:93:ARG:CA	2.30	0.62
3:E:217:LEU:HD11	3:E:291:LEU:HD22	1.81	0.62
3:E:303:LEU:HB3	3:E:321:GLY:N	2.14	0.62
4:C:765:ARG:HD2	4:C:801:LYS:HA	1.80	0.62
4:C:935:VAL:HG11	4:C:993:ARG:HA	1.82	0.62
4:C:942:GLN:HB2	4:C:995:THR:HG21	1.81	0.62
4:B:719:ILE:HG23	4:B:739:LEU:HB3	1.81	0.62
5:A:551:GLY:N	5:A:558:ALA:O	2.33	0.62
1:K:197:THR:CG2	1:F:563:PRO:HB2	2.09	0.61
1:K:223:LEU:HB3	1:K:230:ARG:NH2	2.15	0.61
1:K:342:GLY:HA2	1:K:363:GLY:HA3	1.82	0.61
2:I:213:ARG:HD3	2:I:213:ARG:H	1.65	0.61
4:C:1087:MET:HB2	4:B:281:LEU:HA	1.79	0.61
4:B:636:LEU:N	4:B:637:PRO:HD2	2.15	0.61
4:B:796:THR:HA	4:B:799:LYS:HD3	1.82	0.61
4:B:1047:ILE:HG12	4:B:1199:ILE:HG12	1.81	0.61
5:A:6:GLY:CA	5:A:336:SER:HB3	2.21	0.61
5:A:974:TRP:HB2	5:A:977:CYS:HB3	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:386:SER:H	1:F:437:PHE:HD2	1.45	0.61
1:K:612:THR:HB	1:K:615:ALA:HB2	1.82	0.61
2:H:292:LEU:O	2:H:295:VAL:HG22	2.00	0.61
2:G:27:SER:N	2:G:31:GLY:O	2.32	0.61
3:E:270:LEU:HD12	3:E:270:LEU:C	2.19	0.61
3:E:270:LEU:HD21	3:E:417:LEU:HD13	1.81	0.61
4:C:556:ILE:HD11	4:C:888:SER:HB3	1.80	0.61
4:C:674:ARG:CZ	4:B:1275:PRO:C	2.68	0.61
5:A:436:SER:HB3	5:A:643:PRO:HA	1.81	0.61
5:A:481:ARG:HG2	5:A:645:VAL:HG21	1.82	0.61
5:A:1174:PHE:HE2	5:A:1184:ASN:HB2	1.64	0.61
1:K:517:GLU:HA	1:K:517:GLU:OE2	1.99	0.61
2:I:14:LEU:HD13	2:I:45:CYS:HA	1.81	0.61
1:F:377:ARG:HB2	1:F:498:LEU:HD21	1.81	0.61
3:E:386:ASN:N	3:E:386:ASN:ND2	2.49	0.61
4:C:1104:PHE:CD1	4:C:1104:PHE:N	2.66	0.61
4:C:1166:TRP:CZ3	4:C:1170:ILE:HD11	2.34	0.61
4:B:664:MET:HE2	4:B:664:MET:HA	1.81	0.61
5:A:448:VAL:CG2	5:A:668:SER:HA	2.30	0.61
5:A:1154:MET:CB	5:A:1201:VAL:HG11	2.29	0.61
5:A:1240:VAL:CG2	5:A:1250:LEU:HG	2.30	0.61
1:K:63:LEU:HD12	1:K:152:ALA:HA	1.83	0.61
2:G:50:VAL:HG22	2:G:57:VAL:HG22	1.82	0.61
2:G:256:HIS:CE1	2:G:276:LEU:HB3	2.36	0.61
1:F:333:TRP:CE2	1:F:531:LEU:HD21	2.35	0.61
3:E:186:THR:HG22	3:E:252:ILE:HD11	1.81	0.61
4:B:690:ASN:HB3	4:B:693:LEU:CD1	2.29	0.61
5:A:64:GLN:CA	5:A:169:GLY:HA3	2.20	0.61
5:A:115:VAL:HG11	5:A:136:LEU:CA	2.20	0.61
5:A:461:PHE:CE2	5:A:588:LEU:HD11	2.35	0.61
5:A:515:PHE:HB3	5:A:578:VAL:HG23	1.82	0.61
5:A:552:TYR:CA	5:A:559:ILE:HG23	2.29	0.61
5:A:610:GLY:O	5:A:658:VAL:N	2.33	0.61
1:K:147:TYR:CE2	1:K:159:PHE:HB2	2.35	0.61
1:K:375:PRO:HB2	1:K:498:LEU:HB2	1.81	0.61
1:K:579:THR:CG2	2:G:70:HIS:CE1	2.83	0.61
2:I:137:ASP:N	2:I:138:PRO:HD3	2.16	0.61
1:F:111:PHE:CD2	1:F:174:TYR:HE2	2.18	0.61
3:E:83:ASN:ND2	3:E:85:ARG:HB2	2.15	0.61
3:E:106:VAL:CB	4:B:942:GLN:O	2.44	0.61
4:C:713:TRP:HE3	4:C:714:PRO:HD3	1.61	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1150:TYR:HD2	4:C:1184:ILE:HA	1.65	0.61
4:B:578:LEU:HD23	4:B:581:LEU:HD12	1.82	0.61
4:B:928:VAL:O	4:B:932:VAL:HG13	2.00	0.61
5:A:54:ILE:HD12	5:A:54:ILE:N	2.15	0.61
5:A:112:ASN:HB3	5:A:115:VAL:HB	1.83	0.61
5:A:294:GLU:HA	5:A:299:TYR:CD1	2.36	0.61
5:A:562:LEU:HB2	5:A:578:VAL:HG11	1.82	0.61
5:A:708:THR:HA	5:A:754:ILE:O	2.00	0.61
5:A:824:VAL:HB	5:A:884:ASP:HB2	1.81	0.61
1:K:289:ALA:HB1	1:K:635:LEU:HD13	1.83	0.61
2:I:353:ASP:N	2:I:353:ASP:OD1	2.33	0.61
1:F:103:VAL:HG11	1:F:141:LEU:HD22	1.81	0.61
1:F:470:ALA:O	1:F:488:VAL:HG22	1.99	0.61
3:E:203:TRP:HH2	3:E:295:LEU:HA	1.64	0.61
4:C:430:ARG:HB2	4:C:1235:LEU:HD23	1.80	0.61
4:C:920:ARG:NH2	4:C:981:ASP:HB2	2.16	0.61
4:B:757:PHE:HZ	4:B:804:LYS:HA	1.65	0.61
4:B:1095:ARG:HA	4:B:1101:MET:HG2	1.81	0.61
5:A:182:ASP:HB3	5:A:325:ARG:HB2	1.82	0.61
5:A:552:TYR:N	5:A:552:TYR:CD2	2.65	0.61
5:A:1154:MET:HB2	5:A:1201:VAL:HG21	1.82	0.61
5:A:1156:PHE:HZ	5:A:1201:VAL:HG12	1.65	0.61
1:K:100:LEU:HD13	1:K:165:VAL:HG11	1.83	0.61
1:K:566:VAL:HG23	1:K:567:PRO:HD3	1.80	0.61
1:K:650:LYS:HZ2	1:F:299:GLU:HB2	1.65	0.61
2:H:3:VAL:CB	2:H:56:GLY:HA3	2.21	0.61
1:F:303:SER:HB3	1:F:515:PRO:CG	2.25	0.61
1:F:350:THR:HA	1:F:356:ASN:HA	1.83	0.61
3:E:240:GLN:C	3:E:251:TRP:HA	2.21	0.61
4:C:748:ALA:CA	4:C:813:GLN:HB3	2.29	0.61
4:B:492:THR:OG1	4:B:1274:VAL:HB	2.00	0.61
4:B:1083:ILE:HD13	4:B:1104:PHE:HZ	1.65	0.61
5:A:1189:ILE:HD12	5:A:1230:LEU:HB2	1.81	0.61
1:K:385:LYS:HB3	1:K:387:TYR:CE1	2.36	0.61
1:K:391:SER:HB3	2:H:278:GLY:O	1.98	0.61
2:I:100:LEU:HA	2:I:163:LEU:HD21	1.82	0.61
1:F:430:LEU:HD12	1:F:472:PHE:CE2	2.36	0.61
4:C:635:ALA:HA	4:C:638:LEU:CG	2.31	0.61
4:B:1081:CYS:HA	4:B:1095:ARG:HE	1.66	0.61
5:A:28:HIS:H	5:A:108:ASN:HA	1.65	0.61
5:A:30:LEU:O	5:A:34:LEU:HG	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:412:LEU:HD23	5:A:412:LEU:C	2.21	0.61
5:A:515:PHE:CB	5:A:576:SER:HA	2.16	0.61
5:A:592:SER:O	5:A:596:GLU:HG3	2.01	0.61
1:K:223:LEU:HD23	1:K:224:PRO:CD	2.30	0.61
1:K:346:GLN:HG2	1:K:360:ASN:HB3	1.82	0.61
2:G:66:LYS:H	2:G:66:LYS:CD	1.90	0.61
4:C:465:TRP:CH2	4:C:469:LEU:HD21	2.36	0.61
4:C:543:LEU:HB3	4:C:592:ARG:HD2	1.83	0.61
4:B:261:GLY:HA3	4:B:312:SER:HA	1.82	0.61
4:B:417:SER:CA	4:B:1217:PRO:HA	2.11	0.61
4:B:601:ASN:ND2	4:B:832:GLN:HA	2.15	0.61
4:B:1046:ILE:HG12	4:B:1138:ARG:HB2	1.82	0.61
5:A:351:VAL:HB	5:A:369:TYR:HA	1.83	0.61
5:A:941:GLU:N	5:A:950:ARG:O	2.25	0.61
5:A:979:ILE:HG12	5:A:1021:ILE:HG23	1.82	0.61
5:A:1012:MET:O	5:A:1016:MET:N	2.34	0.61
1:K:324:ARG:CZ	1:K:490:ASP:HB2	2.31	0.61
1:K:376:MET:N	1:K:452:TYR:O	2.30	0.61
1:K:389:GLU:HB2	1:K:392:TRP:CB	2.28	0.61
1:F:235:GLU:N	1:F:235:GLU:OE1	2.32	0.61
3:E:6:PHE:HB2	3:E:127:CYS:HB2	1.83	0.61
3:E:147:LEU:O	3:E:151:THR:HG23	2.01	0.61
4:C:453:THR:HA	4:C:1254:TYR:HB2	1.83	0.61
4:C:892:PRO:HB2	4:C:895:LEU:HB2	1.83	0.61
4:C:1076:ILE:HA	4:C:1109:ILE:O	2.01	0.61
4:C:1082:ARG:HD2	4:B:416:VAL:CA	2.29	0.61
5:A:111:VAL:HA	5:A:138:ILE:N	2.15	0.61
5:A:512:VAL:HG13	5:A:573:PHE:HD2	1.65	0.61
5:A:909:GLN:O	5:A:913:VAL:HG23	2.00	0.61
1:K:304:LEU:HG	1:K:516:ALA:HB2	1.83	0.60
1:K:322:ASN:HB3	1:K:325:THR:HG23	1.81	0.60
1:K:508:ALA:O	2:G:312:ARG:O	2.19	0.60
1:K:581:TYR:CD1	2:G:72:ARG:CA	2.84	0.60
2:I:50:VAL:HA	2:I:57:VAL:HA	1.83	0.60
2:H:128:LEU:HD23	2:H:179:LEU:HD11	1.83	0.60
1:F:348:GLN:HA	1:F:358:HIS:HA	1.82	0.60
1:F:377:ARG:N	1:F:496:SER:O	2.28	0.60
1:F:506:LYS:CE	1:F:506:LYS:CA	2.73	0.60
1:K:166:ILE:CG1	1:K:170:ARG:HD2	2.32	0.60
1:F:279:LEU:HD23	1:F:282:LYS:CE	2.31	0.60
3:E:225:VAL:HB	3:E:227:VAL:HG23	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:400:GLU:CD	4:C:400:GLU:H	2.05	0.60
5:A:198:ALA:HB2	5:A:234:LEU:HA	1.82	0.60
5:A:242:VAL:HB	5:A:248:ILE:CG2	2.25	0.60
5:A:300:ARG:O	5:A:304:LEU:HG	2.01	0.60
5:A:1047:PHE:HB2	5:A:1087:TRP:HD1	1.66	0.60
1:K:568:ILE:O	1:K:572:LEU:HG	2.01	0.60
2:I:75:GLN:HG3	1:F:581:TYR:CE1	2.36	0.60
2:G:177:SER:HB3	2:G:179:LEU:HG	1.83	0.60
3:E:163:TYR:HA	3:E:270:LEU:O	2.01	0.60
3:E:238:TYR:O	3:E:254:SER:N	2.34	0.60
4:B:883:THR:O	4:B:887:LEU:HG	2.00	0.60
4:B:1153:PRO:HG3	4:B:1183:PRO:HB2	1.83	0.60
5:A:864:ARG:NE	5:A:866:THR:HG23	2.15	0.60
5:A:1157:VAL:N	5:A:1164:GLN:O	2.34	0.60
1:K:43:PRO:CB	1:K:102:VAL:HG12	2.31	0.60
1:K:324:ARG:CZ	1:F:436:SER:HB3	2.32	0.60
1:K:399:VAL:HA	1:K:472:PHE:HA	1.83	0.60
2:G:220:VAL:HG13	2:G:264:ILE:HG23	1.83	0.60
1:F:49:ILE:CG2	1:F:66:MET:HA	2.32	0.60
1:F:102:VAL:HG13	1:F:163:VAL:CG1	2.32	0.60
4:C:303:ARG:CG	4:C:1209:LEU:HA	2.28	0.60
4:C:914:VAL:O	4:C:918:LEU:HG	2.01	0.60
4:B:472:MET:O	4:B:506:PRO:HA	2.00	0.60
4:B:1057:SER:HB3	4:B:1060:ALA:CB	2.31	0.60
4:B:1094:ILE:HG22	4:B:1102:VAL:O	2.00	0.60
5:A:423:ARG:HB2	5:A:697:VAL:HA	1.83	0.60
5:A:483:LEU:HB2	5:A:528:LEU:HB2	1.83	0.60
1:K:404:PHE:N	1:K:404:PHE:CD1	2.67	0.60
1:K:506:LYS:HE2	2:G:309:GLU:HB2	1.84	0.60
1:F:367:VAL:HG21	1:F:467:TYR:HB3	1.83	0.60
3:E:46:ILE:HD12	3:E:52:LEU:H	1.66	0.60
3:E:132:PHE:HA	3:E:135:ARG:HD2	1.82	0.60
4:C:1046:ILE:N	4:C:1200:ILE:O	2.30	0.60
4:C:1169:GLU:CB	4:C:1176:PRO:HB3	2.31	0.60
4:C:1230:GLU:CB	4:C:1250:VAL:HG11	2.30	0.60
4:B:325:ALA:HB3	4:B:331:ASN:HD21	1.65	0.60
4:B:399:ALA:HA	4:B:402:TRP:CD1	2.35	0.60
4:B:852:GLN:HA	4:B:996:GLN:H	1.66	0.60
4:B:1188:HIS:HA	4:B:1220:ILE:CG2	2.31	0.60
5:A:227:PRO:HB2	5:A:230:GLY:HA2	1.83	0.60
5:A:419:GLN:HG2	5:A:709:ILE:CA	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:506:LYS:HB2	2:G:311:ILE:C	2.16	0.60
1:K:506:LYS:HG2	2:G:313:TYR:CD2	2.34	0.60
1:K:583:VAL:CG2	2:G:67:HIS:C	2.67	0.60
2:G:1:MET:H3	2:G:72:ARG:H	1.49	0.60
2:G:25:ILE:HG23	2:G:43:MET:HG2	1.84	0.60
1:F:453:GLU:HB2	1:F:456:GLN:CG	2.32	0.60
4:B:504:LEU:HB3	4:B:1264:THR:CG2	2.25	0.60
4:B:657:VAL:HG22	4:B:671:GLN:HE21	1.66	0.60
4:B:853:SER:HB2	4:B:996:GLN:HB3	1.84	0.60
5:A:101:TYR:OH	5:A:134:PRO:HA	2.01	0.60
5:A:174:GLN:HE21	5:A:178:TYR:HB3	1.67	0.60
5:A:221:LEU:HD23	5:A:285:LEU:HD12	1.82	0.60
5:A:744:TYR:O	5:A:751:VAL:N	2.31	0.60
1:K:650:LYS:CD	1:F:299:GLU:CB	2.73	0.60
2:I:190:HIS:HA	2:I:194:GLY:HA3	1.84	0.60
2:G:288:GLY:HA2	2:G:291:LYS:HG3	1.82	0.60
1:F:647:ALA:O	1:F:651:LEU:HG	2.01	0.60
3:E:183:PHE:HB2	4:B:499:PRO:HA	1.75	0.60
4:C:844:PRO:HA	4:C:1003:GLN:HA	1.84	0.60
5:A:1081:ASP:O	5:A:1085:GLY:N	2.33	0.60
1:K:47:PRO:CA	1:K:148:VAL:HA	2.29	0.60
1:K:63:LEU:HD12	1:K:152:ALA:CB	2.31	0.60
1:K:517:GLU:CD	2:G:313:TYR:CE2	2.66	0.60
1:K:554:ASP:HB2	1:K:564:ASN:CG	2.21	0.60
1:K:558:PRO:HB3	1:K:601:GLN:HG3	1.83	0.60
2:I:253:GLY:HA2	2:I:275:MET:SD	2.42	0.60
1:F:347:ILE:HD11	1:F:359:PHE:CZ	2.37	0.60
1:F:403:VAL:HG21	1:F:450:TYR:CZ	2.37	0.60
1:F:431:TYR:CD2	1:F:444:ALA:HB2	2.31	0.60
4:C:681:PRO:HB3	4:C:840:ARG:HG3	1.82	0.60
4:B:352:LEU:O	4:B:954:SER:HA	2.01	0.60
4:B:815:ALA:HB3	4:B:816:PRO:HD3	1.83	0.60
5:A:9:LEU:HD22	5:A:314:LEU:HD22	1.82	0.60
5:A:374:GLN:NE2	5:A:374:GLN:H	2.00	0.60
5:A:794:LEU:HD12	5:A:794:LEU:C	2.19	0.60
5:A:1029:GLU:O	5:A:1042:LEU:HA	2.00	0.60
1:K:435:SER:N	1:K:441:SER:HA	2.17	0.60
1:K:610:ILE:HA	1:K:618:LEU:HD22	1.84	0.60
2:I:50:VAL:HG22	2:I:57:VAL:CG2	2.29	0.60
2:G:187:ASP:HB3	2:G:190:HIS:ND1	2.17	0.60
3:E:165:ARG:CG	3:E:269:SER:HB3	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:167:ASP:HB3	3:E:170:MET:HE3	1.84	0.60
4:C:465:TRP:CZ2	4:C:469:LEU:HD21	2.37	0.60
4:C:732:LEU:CB	4:C:1011:VAL:HG11	2.31	0.60
5:A:225:ASP:CB	5:A:280:ASP:HB3	2.14	0.60
5:A:611:SER:HA	5:A:658:VAL:CG2	2.30	0.60
1:K:143:TYR:HB3	1:K:162:GLN:O	2.02	0.60
1:K:348:GLN:HG2	1:K:358:HIS:CG	2.37	0.60
2:I:272:PHE:HA	2:I:281:LYS:O	2.01	0.60
2:H:63:ARG:HD2	2:H:63:ARG:N	2.16	0.60
2:G:24:SER:CB	1:F:353:THR:HG21	2.32	0.60
1:F:213:GLN:HB3	1:F:675:PRO:HD2	1.82	0.60
4:C:810:TYR:CD1	4:C:814:LEU:HB2	2.37	0.60
4:C:951:TRP:HZ3	4:C:1143:ALA:HB2	1.67	0.60
4:B:290:TYR:HB2	4:B:292:ILE:HG13	1.83	0.60
4:B:377:GLY:O	4:B:392:ARG:HA	2.02	0.60
5:A:221:LEU:HD11	5:A:252:THR:HG23	1.84	0.60
5:A:548:ARG:HG3	5:A:571:TYR:CZ	2.37	0.60
5:A:1042:LEU:O	5:A:1089:LEU:N	2.28	0.60
1:K:347:ILE:HD11	1:K:359:PHE:CE1	2.36	0.59
1:K:514:VAL:CB	1:K:517:GLU:HG2	2.31	0.59
1:K:518:LEU:HD11	1:K:535:ALA:HB1	1.84	0.59
2:I:224:ASP:HB3	2:I:355:PRO:HG2	1.84	0.59
2:H:236:ARG:HH21	2:H:240:LYS:HD2	1.67	0.59
2:G:50:VAL:HA	2:G:57:VAL:HA	1.84	0.59
2:G:100:LEU:HD13	2:G:163:LEU:CD2	2.31	0.59
2:G:121:VAL:O	2:G:125:GLY:N	2.32	0.59
1:F:279:LEU:HD23	1:F:282:LYS:NZ	2.17	0.59
4:C:226:SER:OG	4:C:1272:MET:HA	2.01	0.59
4:C:617:GLY:O	4:C:655:MET:HG2	2.02	0.59
4:B:391:LEU:HD23	4:B:403:TYR:HD2	1.64	0.59
4:B:807:THR:N	4:B:808:PRO:HD2	2.16	0.59
5:A:562:LEU:HG	5:A:578:VAL:HG11	1.83	0.59
5:A:584:GLY:H	5:A:587:ASP:HB2	1.66	0.59
5:A:911:ILE:HA	5:A:914:LEU:HD12	1.84	0.59
5:A:1004:ALA:O	5:A:1008:ILE:HD13	2.01	0.59
5:A:1194:LEU:HB3	5:A:1196:TYR:HE1	1.66	0.59
1:K:50:ALA:CA	1:K:57:VAL:HG22	2.31	0.59
1:K:151:SER:HB3	1:F:119:GLU:CB	2.29	0.59
1:K:235:GLU:N	1:K:235:GLU:OE1	2.34	0.59
1:K:405:GLN:HG2	1:K:466:TYR:HD2	1.67	0.59
1:K:520:GLY:O	1:K:613:GLN:HA	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:180:VAL:N	2:H:364:LEU:O	2.31	0.59
2:H:303:ASN:HD21	2:H:320:MET:CB	2.14	0.59
1:F:153:ARG:NH2	1:F:156:LEU:HD23	2.14	0.59
1:F:378:PHE:O	1:F:449:ALA:HA	2.02	0.59
3:E:22:ASN:ND2	3:E:25:LEU:HG	2.18	0.59
3:E:180:MET:N	4:B:497:TYR:HH	1.76	0.59
4:C:949:LEU:HB3	4:C:952:ILE:HD12	1.84	0.59
4:C:1121:TYR:O	4:C:1125:GLN:HG2	2.03	0.59
4:B:321:SER:HA	4:B:368:ASP:OD1	2.02	0.59
4:B:603:VAL:HG13	4:B:831:PHE:CD2	2.37	0.59
4:B:852:GLN:O	4:B:996:GLN:HG2	2.02	0.59
4:B:1217:PRO:HG2	4:B:1218:GLN:OE1	2.02	0.59
5:A:401:THR:HG23	5:A:403:ASP:H	1.67	0.59
5:A:832:PRO:HB3	5:A:855:ALA:N	2.16	0.59
5:A:886:VAL:HG23	5:A:919:ALA:HB2	1.82	0.59
5:A:994:ALA:HB3	5:A:1001:LEU:HD21	1.83	0.59
5:A:1155:THR:HG22	5:A:1198:ILE:HG12	1.84	0.59
1:K:46:VAL:O	1:K:149:GLY:N	2.31	0.59
2:I:3:VAL:HG21	2:I:56:GLY:HA3	1.83	0.59
2:G:196:ARG:NE	2:G:355:PRO:HB3	2.17	0.59
3:E:22:ASN:ND2	3:E:25:LEU:H	2.01	0.59
4:C:1150:TYR:HA	4:C:1182:VAL:O	2.03	0.59
4:B:841:ASP:HA	4:B:1004:TYR:CD2	2.28	0.59
5:A:27:LEU:HB2	5:A:109:GLU:O	2.03	0.59
5:A:226:LYS:HD3	5:A:278:ARG:CG	2.29	0.59
5:A:824:VAL:HG22	5:A:845:PRO:HG2	1.84	0.59
5:A:936:ILE:HD11	5:A:1011:LEU:HB2	1.84	0.59
1:K:324:ARG:HG2	1:F:435:SER:HA	1.84	0.59
2:G:49:VAL:O	2:G:58:VAL:N	2.36	0.59
4:C:451:PHE:HB3	4:C:1254:TYR:OH	2.02	0.59
4:B:268:ILE:HA	4:B:304:ILE:HA	1.84	0.59
5:A:242:VAL:HB	5:A:248:ILE:HA	1.82	0.59
5:A:1053:PHE:HB2	5:A:1065:THR:HG23	1.83	0.59
1:K:55:THR:CB	1:K:147:TYR:HB2	2.33	0.59
1:K:650:LYS:CE	1:F:300:ILE:H	2.16	0.59
2:H:185:MET:HG3	2:H:262:THR:HG22	1.84	0.59
1:F:51:ILE:CG1	1:F:64:ARG:HB3	2.31	0.59
1:F:228:LEU:HA	1:F:231:ARG:NE	2.17	0.59
1:F:348:GLN:HB3	1:F:358:HIS:ND1	2.18	0.59
3:E:175:VAL:HA	3:E:178:LEU:CD1	2.31	0.59
4:C:577:ILE:O	4:C:581:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1083:ILE:HD12	4:C:1125:GLN:HG3	1.84	0.59
4:B:303:ARG:HH11	4:B:1208:SER:HB3	1.67	0.59
4:B:682:HIS:CE1	4:B:1004:TYR:HE1	2.20	0.59
4:B:1047:ILE:HA	4:B:1198:TYR:O	2.02	0.59
1:K:392:TRP:O	1:K:392:TRP:CD1	2.56	0.59
1:K:522:TYR:HB2	1:K:611:ILE:HD13	1.85	0.59
2:G:52:MET:N	2:G:52:MET:SD	2.76	0.59
2:G:218:TRP:HB3	2:G:267:LYS:HG3	1.85	0.59
1:F:178:ILE:O	1:F:182:LEU:HG	2.03	0.59
4:C:622:SER:HB3	4:C:625:ASN:HB2	1.84	0.59
4:C:1078:GLY:H	4:C:1097:GLU:CA	2.15	0.59
4:B:546:ILE:CG2	4:B:822:ILE:HD11	2.24	0.59
4:B:624:GLU:OE1	4:B:624:GLU:HA	2.03	0.59
4:B:755:LEU:HD13	4:B:806:MET:SD	2.41	0.59
4:B:931:LEU:HD22	4:B:984:LEU:HD13	1.85	0.59
4:B:1229:VAL:HG13	4:B:1236:THR:HG21	1.84	0.59
1:K:434:ASP:CA	1:K:441:SER:HA	2.31	0.59
2:I:80:GLN:HA	2:I:83:VAL:CG1	2.33	0.59
2:G:179:LEU:HA	2:G:365:GLY:HA2	1.85	0.59
1:F:348:GLN:HG2	1:F:358:HIS:HB3	1.85	0.59
3:E:43:LEU:CD1	3:E:286:ILE:HD11	2.33	0.59
4:C:690:ASN:HB3	4:C:693:LEU:HD12	1.85	0.59
4:C:1131:LYS:HD3	4:C:1160:TRP:CD2	2.38	0.59
4:B:254:ARG:HG2	4:B:316:PHE:CG	2.37	0.59
5:A:374:GLN:H	5:A:374:GLN:CD	2.05	0.59
5:A:940:LEU:HB2	5:A:951:PHE:CD2	2.37	0.59
2:G:24:SER:OG	1:F:353:THR:HG21	2.02	0.59
4:C:255:LEU:HD11	4:C:923:ILE:HD11	1.85	0.59
4:B:256:VAL:HG13	4:B:372:LEU:HD12	1.85	0.59
4:B:851:ARG:HG3	4:B:851:ARG:NH1	2.17	0.59
5:A:199:PHE:N	5:A:199:PHE:CD1	2.68	0.59
5:A:486:ASP:CB	5:A:529:VAL:HG21	2.31	0.59
5:A:1124:VAL:HG12	5:A:1209:TYR:CD2	2.38	0.59
5:A:1125:ASP:N	5:A:1125:ASP:OD1	2.36	0.59
1:K:347:ILE:HD11	1:K:359:PHE:CZ	2.38	0.59
1:K:433:GLU:O	1:K:442:ILE:N	2.31	0.59
2:I:113:VAL:HG21	2:I:128:LEU:CD2	2.33	0.59
2:I:288:GLY:CA	2:I:291:LYS:HE3	2.29	0.59
2:H:14:LEU:HB2	2:H:45:CYS:HB3	1.84	0.59
2:H:87:PHE:HA	2:H:149:TRP:CE3	2.38	0.59
2:G:168:THR:O	2:G:172:LEU:HG	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:ASP:OD1	5:A:345:TRP:HD1	1.85	0.59
1:F:384:GLY:HA2	1:F:442:ILE:CG1	2.27	0.59
3:E:270:LEU:HD21	3:E:417:LEU:CD1	2.33	0.59
3:E:272:VAL:HG12	3:E:328:HIS:ND1	2.18	0.59
4:C:765:ARG:CD	4:C:801:LYS:HA	2.32	0.59
4:C:1083:ILE:HG23	4:C:1094:ILE:HA	1.85	0.59
4:C:1087:MET:HE1	4:B:282:ALA:HB2	1.79	0.59
4:C:1246:GLN:HB2	4:C:1250:VAL:HB	1.84	0.59
4:B:746:GLN:HB3	5:A:155:GLN:H	1.57	0.59
4:B:813:GLN:O	4:B:816:PRO:HD2	2.03	0.59
5:A:19:GLU:HA	5:A:276:VAL:N	2.14	0.59
5:A:931:ASP:HB3	5:A:1015:TYR:HE2	1.66	0.59
1:K:304:LEU:HA	1:K:516:ALA:HB3	1.85	0.59
2:H:257:TYR:HA	2:H:342:MET:O	2.02	0.59
2:G:55:LEU:O	2:G:55:LEU:CG	2.49	0.59
1:F:102:VAL:HG13	1:F:163:VAL:HG13	1.85	0.59
1:F:408:ILE:HD13	1:F:418:GLN:HG2	1.85	0.59
4:C:261:GLY:C	4:C:312:SER:HA	2.22	0.59
4:C:398:ASP:HB3	4:C:401:LYS:HD3	1.84	0.59
4:B:524:ASN:ND2	4:B:525:ILE:HG23	2.18	0.59
4:B:762:THR:HG23	4:B:765:ARG:NH2	2.18	0.59
5:A:101:TYR:HB3	5:A:106:TYR:HE1	1.67	0.59
5:A:455:GLN:OE1	5:A:455:GLN:HA	2.03	0.59
5:A:770:ARG:CB	5:A:862:ASN:HA	2.25	0.59
5:A:824:VAL:HG22	5:A:845:PRO:CG	2.33	0.59
5:A:1240:VAL:CG1	5:A:1247:ILE:HB	2.33	0.59
1:K:516:ALA:HB1	1:K:621:LYS:HD2	1.84	0.58
2:I:143:ARG:HG2	2:I:143:ARG:HH11	1.67	0.58
2:I:236:ARG:HA	2:I:239:ARG:HD2	1.85	0.58
2:H:262:THR:HB	2:H:263:PRO:CD	2.33	0.58
2:G:10:GLN:HA	2:G:46:GLY:CA	2.33	0.58
2:G:138:PRO:HA	2:G:143:ARG:HB3	1.85	0.58
1:F:452:TYR:HE1	1:F:457:LEU:HD11	1.67	0.58
3:E:258:ASN:CA	4:C:854:ARG:NH1	2.65	0.58
3:E:333:ARG:NH2	3:E:358:GLU:HB3	2.18	0.58
4:C:1074:VAL:HA	4:C:1107:ASN:O	2.01	0.58
4:C:1082:ARG:HB3	4:B:414:PRO:O	2.03	0.58
4:B:434:PHE:N	4:B:449:ASP:O	2.35	0.58
4:B:599:LEU:HD21	4:B:819:LEU:HD13	1.85	0.58
5:A:587:ASP:O	5:A:591:SER:N	2.33	0.58
5:A:632:LEU:HB3	5:A:664:LEU:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:921:VAL:HG13	5:A:1020:ARG:HE	1.68	0.58
5:A:1044:ILE:HG22	5:A:1047:PHE:CD1	2.38	0.58
1:K:368:VAL:HG21	1:K:468:LEU:HD23	1.83	0.58
1:K:469:LEU:HA	1:K:489:TRP:HE1	1.68	0.58
2:I:44:VAL:HG11	2:I:61:LEU:HD21	1.84	0.58
2:G:199:GLY:H	2:G:202:ARG:NH1	2.01	0.58
3:E:59:PRO:CG	3:E:393:ARG:HD2	2.34	0.58
4:C:636:LEU:HD13	4:C:648:ALA:CB	2.33	0.58
4:C:717:SER:O	4:C:741:LEU:N	2.33	0.58
4:C:1084:SER:CB	4:C:1093:MET:H	2.14	0.58
4:C:1151:TYR:O	4:C:1183:PRO:HA	2.02	0.58
4:B:353:MET:SD	4:B:353:MET:N	2.77	0.58
4:B:650:MET:O	4:B:654:ASN:N	2.32	0.58
5:A:282:CYS:HB3	5:A:305:SER:HB3	1.85	0.58
1:K:217:LYS:HB3	1:K:672:PHE:HB3	1.85	0.58
1:K:520:GLY:HA2	1:K:612:THR:O	2.02	0.58
2:H:100:LEU:HD13	2:H:163:LEU:HG	1.85	0.58
1:F:324:ARG:NH1	1:F:487:ASP:OD1	2.36	0.58
1:F:374:ALA:HB1	1:F:499:SER:CB	2.33	0.58
1:F:395:ASN:HB2	1:F:432:ALA:HB3	1.83	0.58
3:E:210:ALA:O	3:E:214:GLN:HG3	2.02	0.58
4:C:360:HIS:CD2	4:C:969:VAL:HG22	2.37	0.58
4:C:1115:TRP:HA	4:C:1122:PHE:CE2	2.38	0.58
4:B:472:MET:HE2	4:B:506:PRO:HB2	1.86	0.58
5:A:37:ASN:HB3	5:A:40:ARG:HH21	1.67	0.58
5:A:211:PHE:HA	5:A:214:HIS:CB	2.33	0.58
5:A:816:SER:O	5:A:819:VAL:HB	2.03	0.58
1:K:125:LEU:HG	1:K:185:LEU:HD21	1.85	0.58
1:K:296:ALA:HB1	1:K:546:ILE:HD11	1.84	0.58
2:G:19:PHE:CZ	2:G:291:LYS:HG2	2.39	0.58
1:F:351:ASP:N	1:F:355:THR:O	2.35	0.58
3:E:106:VAL:HG23	4:B:944:PRO:N	2.05	0.58
3:E:171:TRP:CE3	3:E:235:ARG:HD3	2.39	0.58
3:E:386:ASN:N	3:E:386:ASN:HD22	2.01	0.58
4:C:732:LEU:HD13	4:C:1011:VAL:CG1	2.34	0.58
4:B:491:VAL:HG23	4:B:905:ILE:HG22	1.84	0.58
4:B:1096:ASP:HB3	4:B:1100:MET:H	1.66	0.58
5:A:864:ARG:HE	5:A:866:THR:HG23	1.67	0.58
1:K:175:VAL:O	1:K:179:GLN:HG2	2.02	0.58
1:K:178:ILE:O	1:K:182:LEU:HG	2.02	0.58
1:K:453:GLU:HB2	1:K:456:GLN:HE21	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:650:LYS:NZ	1:F:299:GLU:HB2	2.18	0.58
2:I:87:PHE:HA	2:I:149:TRP:CE3	2.38	0.58
2:G:197:LEU:HD11	2:G:206:PHE:HE1	1.69	0.58
3:E:108:PRO:O	3:E:112:LEU:N	2.30	0.58
4:C:708:ILE:HA	4:C:711:ARG:NH1	2.18	0.58
4:C:905:ILE:HG23	4:C:909:TYR:CD1	2.38	0.58
4:C:1083:ILE:CD1	4:C:1125:GLN:HG3	2.33	0.58
4:C:1146:TYR:HB2	4:C:1180:PHE:CE1	2.39	0.58
4:B:1056:TRP:HB3	4:B:1062:PRO:HD3	1.85	0.58
4:B:1145:PRO:HG2	4:B:1177:SER:HA	1.85	0.58
4:B:1156:TYR:HD1	4:B:1194:PRO:HB2	1.68	0.58
5:A:430:TRP:CZ3	5:A:1001:LEU:HB2	2.37	0.58
2:H:180:VAL:HG21	2:H:243:VAL:HG12	1.86	0.58
2:H:272:PHE:HA	2:H:281:LYS:O	2.03	0.58
1:F:173:MET:HE1	1:F:174:TYR:CA	2.32	0.58
4:C:478:GLU:HA	4:C:481:TRP:CE3	2.39	0.58
4:B:713:TRP:CD2	4:B:714:PRO:HD2	2.39	0.58
4:B:852:GLN:HA	4:B:995:THR:CA	2.29	0.58
5:A:76:PRO:HG2	5:A:82:TRP:HA	1.84	0.58
5:A:221:LEU:HD21	5:A:252:THR:CG2	2.34	0.58
5:A:721:GLN:HE21	5:A:721:GLN:N	2.01	0.58
5:A:776:ASP:OD2	5:A:777:PRO:HD2	2.02	0.58
1:K:370:LEU:HB2	1:K:466:TYR:C	2.24	0.58
1:K:490:ASP:OD2	1:F:436:SER:CA	2.51	0.58
2:I:288:GLY:HA2	2:I:291:LYS:CE	2.30	0.58
2:G:303:ASN:ND2	2:G:320:MET:HB3	2.18	0.58
1:F:304:LEU:HD23	1:F:621:LYS:HD2	1.84	0.58
3:E:35:SER:O	3:E:41:GLN:HG3	2.03	0.58
4:B:378:PHE:HA	4:B:391:LEU:O	2.03	0.58
4:B:707:GLU:HB3	4:B:711:ARG:NH1	2.18	0.58
4:B:855:ASP:HA	4:B:994:MET:HE3	1.84	0.58
5:A:731:CYS:HA	5:A:734:VAL:HG22	1.85	0.58
5:A:1171:PHE:HB3	5:A:1183:MET:HG2	1.85	0.58
5:A:1240:VAL:HG12	5:A:1247:ILE:HB	1.85	0.58
1:K:384:GLY:H	1:K:443:ILE:HB	1.68	0.58
2:G:170:LEU:HA	2:G:173:MET:CE	2.32	0.58
3:E:52:LEU:HD21	3:E:281:MET:HB3	1.86	0.58
3:E:229:HIS:HD2	3:E:231:GLN:HB2	1.68	0.58
4:C:236:SER:HA	4:C:248:LEU:HB2	1.86	0.58
4:C:1170:ILE:HG12	4:C:1175:ILE:HG13	1.86	0.58
5:A:13:LEU:HB3	5:A:311:GLY:O	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:483:LEU:CA	5:A:529:VAL:HG22	2.28	0.58
5:A:1075:GLN:CB	5:A:1092:VAL:HB	2.27	0.58
1:K:250:MET:HA	1:K:257:VAL:HG22	1.84	0.58
1:K:282:LYS:HE2	1:K:640:LEU:HD12	1.86	0.58
1:K:382:LEU:HD21	1:K:488:VAL:HB	1.84	0.58
1:F:121:ASN:CB	1:F:185:LEU:HD13	2.33	0.58
3:E:93:ARG:HA	3:E:107:ALA:HB2	1.84	0.58
3:E:158:PHE:CE1	3:E:401:GLN:HG2	2.39	0.58
4:B:427:VAL:HG23	4:B:1235:LEU:O	2.04	0.58
4:B:973:MET:HA	4:B:973:MET:HE2	1.85	0.58
4:B:1171:THR:HB	4:B:1174:SER:O	2.04	0.58
5:A:106:TYR:CB	5:A:109:GLU:HB2	2.34	0.58
5:A:599:LEU:HD13	5:A:631:ILE:CD1	2.33	0.58
5:A:1068:VAL:HA	5:A:1071:ALA:CB	2.31	0.58
1:K:377:ARG:HA	1:K:451:ASN:HA	1.85	0.58
1:K:395:ASN:HB2	1:K:432:ALA:HB3	1.86	0.58
1:K:404:PHE:CD1	1:K:467:TYR:HB2	2.39	0.58
2:H:20:GLU:HG2	2:H:22:ARG:HD2	1.84	0.58
3:E:123:ARG:HA	3:E:123:ARG:NE	2.18	0.58
4:C:454:SER:N	4:C:1253:LEU:O	2.35	0.58
4:B:298:GLU:HB3	4:B:1215:SER:HB3	1.86	0.58
4:B:533:GLN:HE21	4:B:537:GLN:NE2	2.02	0.58
4:B:549:LEU:HD12	4:B:890:LYS:O	2.04	0.58
4:B:851:ARG:HG3	4:B:851:ARG:HH11	1.69	0.58
5:A:615:LYS:HA	5:A:652:PHE:HA	1.86	0.58
5:A:670:VAL:O	5:A:674:LEU:HG	2.04	0.58
2:H:290:ALA:HA	2:H:293:LYS:HD2	1.85	0.57
1:F:375:PRO:C	1:F:498:LEU:HB2	2.24	0.57
1:F:397:LYS:HB3	1:F:472:PHE:CD2	2.38	0.57
4:C:732:LEU:HB3	4:C:1011:VAL:HG21	1.86	0.57
4:B:1001:TYR:O	4:B:1008:THR:HA	2.03	0.57
4:B:1110:PHE:HB2	4:B:1137:ILE:HG21	1.85	0.57
5:A:616:ILE:HD11	5:A:640:LEU:HD22	1.86	0.57
5:A:1205:ASP:OD1	5:A:1205:ASP:N	2.37	0.57
2:H:169:ALA:O	2:H:173:MET:HG3	2.04	0.57
2:H:239:ARG:HD2	2:H:365:GLY:OXT	2.04	0.57
1:F:228:LEU:HD23	1:F:228:LEU:H	1.69	0.57
1:F:338:PRO:O	1:F:341:MET:HG2	2.05	0.57
3:E:55:SER:N	3:E:58:VAL:O	2.38	0.57
4:C:596:ALA:HA	4:C:599:LEU:HD12	1.86	0.57
4:C:1082:ARG:HG2	4:B:413:THR:C	2.24	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:7:VAL:HG23	5:A:334:ILE:HA	1.85	0.57
5:A:426:TYR:HB2	5:A:695:GLY:H	1.67	0.57
5:A:626:TYR:CZ	5:A:631:ILE:HD11	2.39	0.57
2:H:100:LEU:HB2	2:H:159:LEU:CD1	2.34	0.57
2:G:116:GLU:CD	2:G:116:GLU:H	2.07	0.57
3:E:330:PHE:CB	3:E:407:THR:HG23	2.34	0.57
4:C:381:ASP:HB2	4:C:391:LEU:HG	1.86	0.57
4:C:1149:HIS:N	4:C:1180:PHE:O	2.34	0.57
4:B:520:ILE:HD12	4:B:986:PRO:HG2	1.86	0.57
5:A:92:VAL:O	5:A:96:GLU:HG2	2.04	0.57
5:A:422:LEU:HD11	5:A:792:PRO:HG2	1.86	0.57
5:A:745:GLU:HB2	5:A:750:ARG:CG	2.34	0.57
5:A:1130:TRP:CG	5:A:1216:LEU:HD22	2.39	0.57
1:K:71:ILE:O	1:K:71:ILE:CG2	2.51	0.57
1:K:352:ASN:HD21	2:H:64:LYS:HB2	1.56	0.57
1:K:359:PHE:CZ	1:K:402:ILE:HG21	2.38	0.57
1:K:376:MET:HB3	1:K:378:PHE:CZ	2.39	0.57
1:K:507:GLY:O	2:G:316:GLY:O	2.22	0.57
3:E:313:SER:O	3:E:316:ILE:HG13	2.04	0.57
4:C:331:ASN:HA	4:C:333:HIS:CE1	2.39	0.57
4:C:398:ASP:O	4:C:402:TRP:N	2.30	0.57
4:C:708:ILE:HG12	4:C:711:ARG:HH12	1.70	0.57
4:C:775:LEU:HD23	4:C:775:LEU:C	2.25	0.57
4:C:1045:ILE:HG22	4:C:1201:SER:HA	1.86	0.57
4:B:999:ILE:HG22	4:B:1011:VAL:HB	1.84	0.57
4:B:1033:HIS:CD2	4:B:1248:PRO:HG2	2.40	0.57
4:B:1083:ILE:HA	4:B:1094:ILE:HA	1.86	0.57
5:A:171:LYS:HD2	5:A:190:LYS:HG3	1.86	0.57
5:A:224:TYR:HE2	5:A:367:TYR:HE2	1.53	0.57
5:A:535:GLN:CB	5:A:537:LYS:HG2	2.30	0.57
5:A:608:PRO:HA	5:A:659:HIS:CB	2.35	0.57
5:A:826:LEU:HD12	5:A:827:ASP:N	2.20	0.57
5:A:1127:THR:HB	5:A:1146:THR:HG1	1.70	0.57
5:A:1243:SER:OG	5:A:1283:ASP:HB3	2.05	0.57
2:I:136:VAL:O	2:I:143:ARG:HD3	2.05	0.57
2:G:1:MET:O	2:G:72:ARG:HB3	2.05	0.57
1:F:51:ILE:HA	1:F:64:ARG:CD	2.27	0.57
3:E:16:LEU:HD12	3:E:20:PRO:HG3	1.85	0.57
4:C:504:LEU:HG	4:C:506:PRO:HD3	1.86	0.57
4:C:862:LEU:HD22	4:B:443:ALA:HA	1.85	0.57
4:B:258:TRP:HA	4:B:372:LEU:O	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:276:VAL:HG13	4:B:277:PRO:HA	1.86	0.57
4:B:1156:TYR:CD1	4:B:1194:PRO:HB2	2.40	0.57
4:B:1209:LEU:HG	4:B:1225:LYS:HG2	1.86	0.57
5:A:513:ALA:N	5:A:573:PHE:O	2.38	0.57
5:A:980:THR:HB	5:A:1115:GLY:HA2	1.86	0.57
5:A:1019:MET:CE	5:A:1021:ILE:HD11	2.34	0.57
1:K:63:LEU:HD12	1:K:152:ALA:CA	2.35	0.57
2:I:220:VAL:CG1	2:I:264:ILE:HG23	2.35	0.57
2:G:158:ASP:HB2	2:G:162:LYS:HE3	1.86	0.57
3:E:165:ARG:HD3	3:E:214:GLN:OE1	2.05	0.57
4:C:267:LYS:HD3	4:C:310:TRP:CD2	2.40	0.57
4:C:336:LYS:HB3	4:C:349:ALA:CB	2.34	0.57
4:C:417:SER:OG	4:C:420:CYS:SG	2.48	0.57
4:C:765:ARG:HG3	4:C:765:ARG:HH11	1.69	0.57
4:C:1054:HIS:HB2	4:C:1056:TRP:NE1	2.19	0.57
4:C:1082:ARG:CD	4:B:416:VAL:HA	2.33	0.57
4:B:1104:PHE:HA	4:B:1108:TRP:CH2	2.39	0.57
5:A:526:GLN:HA	5:A:554:VAL:HG23	1.86	0.57
5:A:741:ILE:HG22	5:A:754:ILE:HG12	1.87	0.57
5:A:851:ILE:HA	5:A:871:ASP:HA	1.86	0.57
5:A:951:PHE:O	5:A:955:GLY:N	2.37	0.57
1:K:279:LEU:HB3	1:K:282:LYS:HE2	1.85	0.57
2:I:3:VAL:HG11	2:I:58:VAL:CG1	2.27	0.57
1:F:99:PRO:HB2	1:F:168:PRO:CD	2.35	0.57
3:E:81:ARG:HB3	3:E:82:PRO:HD2	1.85	0.57
4:C:1230:GLU:O	4:C:1246:GLN:NE2	2.35	0.57
1:K:358:HIS:HD2	1:K:477:ALA:HB2	1.69	0.57
1:K:490:ASP:OD2	1:F:436:SER:CB	2.52	0.57
2:G:161:THR:O	2:G:165:GLN:HG2	2.05	0.57
3:E:185:HIS:CE1	4:B:500:SER:CA	2.88	0.57
3:E:224:TYR:CE2	3:E:335:MET:HG2	2.40	0.57
4:C:264:THR:CG2	4:C:311:ALA:HB3	2.35	0.57
4:C:418:LYS:HB2	4:C:1214:SER:O	2.05	0.57
4:B:378:PHE:CB	4:B:390:ASN:HB3	2.35	0.57
4:B:1108:TRP:O	4:B:1137:ILE:HA	2.04	0.57
5:A:18:ILE:HG22	5:A:275:PRO:HA	1.85	0.57
5:A:204:TYR:CE2	5:A:231:HIS:HB3	2.40	0.57
5:A:252:THR:HA	5:A:255:MET:HE2	1.87	0.57
5:A:549:GLN:CB	5:A:557:GLY:HA2	2.33	0.57
5:A:1136:PHE:HD2	5:A:1228:LEU:HB3	1.69	0.57
1:K:293:VAL:CG2	1:K:635:LEU:HD12	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:450:TYR:CE2	1:K:452:TYR:HB2	2.40	0.57
1:K:559:ASP:CA	1:K:597:SER:HB3	2.35	0.57
2:I:197:LEU:HB2	2:I:202:ARG:HG2	1.85	0.57
2:I:302:VAL:HG13	2:I:306:TRP:CD1	2.40	0.57
2:H:78:ARG:HB2	2:H:81:ASP:OD2	2.05	0.57
2:H:263:PRO:HA	2:H:268:MET:C	2.24	0.57
2:G:186:ARG:HG3	2:G:248:ASP:HB3	1.85	0.57
1:F:148:VAL:HG21	1:F:163:VAL:HG21	1.87	0.57
1:F:595:ILE:HA	1:F:598:ARG:HD2	1.87	0.57
3:E:258:ASN:CB	4:C:854:ARG:NH2	2.63	0.57
4:C:836:VAL:HG23	4:C:836:VAL:O	2.05	0.57
4:C:1042:ARG:HA	4:C:1143:ALA:HA	1.86	0.57
4:B:591:PHE:CE2	4:B:595:LEU:HD11	2.40	0.57
4:B:920:ARG:HD2	4:B:920:ARG:O	2.03	0.57
4:B:987:LEU:N	4:B:987:LEU:HD23	2.20	0.57
5:A:46:LEU:O	5:A:55:VAL:N	2.37	0.57
5:A:257:LEU:O	5:A:261:LEU:HG	2.04	0.57
5:A:549:GLN:HB3	5:A:557:GLY:CA	2.34	0.57
5:A:1134:LEU:HD22	5:A:1141:THR:HG21	1.85	0.57
2:G:92:THR:HG22	2:G:96:LYS:HD2	1.87	0.57
2:G:251:HIS:HB3	2:G:254:LEU:HG	1.87	0.57
3:E:218:SER:O	3:E:222:LEU:HG	2.05	0.57
4:C:394:LEU:HD12	4:C:402:TRP:CD1	2.39	0.57
4:C:607:VAL:HG23	4:C:876:ALA:HB2	1.87	0.57
4:B:533:GLN:N	4:B:534:PRO:HD2	2.20	0.57
5:A:60:PHE:N	5:A:60:PHE:CD1	2.72	0.57
5:A:78:ALA:HB3	5:A:81:ASP:HB2	1.85	0.57
5:A:218:ALA:HB1	5:A:236:GLY:N	2.20	0.57
5:A:279:LEU:HD13	5:A:361:VAL:HA	1.85	0.57
5:A:552:TYR:HA	5:A:559:ILE:CG2	2.34	0.57
1:K:299:GLU:CD	1:K:299:GLU:N	2.51	0.56
1:K:341:MET:HA	1:K:341:MET:HE3	1.86	0.56
2:I:73:CYS:SG	2:I:75:GLN:HG3	2.45	0.56
2:I:116:GLU:H	2:I:116:GLU:CD	2.07	0.56
2:H:48:ALA:HB1	2:H:57:VAL:CG1	2.28	0.56
2:G:24:SER:HB3	1:F:353:THR:HG21	1.87	0.56
4:C:354:PHE:HB2	4:C:953:PRO:HG2	1.87	0.56
4:C:955:LEU:HD12	4:C:955:LEU:C	2.25	0.56
4:B:437:ALA:H	4:B:445:SER:HB3	1.70	0.56
4:B:493:VAL:HA	4:B:1273:GLY:HA2	1.87	0.56
4:B:602:GLY:HA3	4:B:831:PHE:HD2	1.68	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1115:TRP:O	4:B:1119:THR:N	2.37	0.56
5:A:225:ASP:HB3	5:A:278:ARG:HD2	1.87	0.56
5:A:705:GLY:O	5:A:758:ARG:HG2	2.05	0.56
5:A:708:THR:HB	5:A:755:THR:HA	1.86	0.56
5:A:742:ALA:HA	5:A:787:ILE:CB	2.29	0.56
1:K:321:TYR:O	1:K:493:LEU:HB3	2.04	0.56
1:K:337:ILE:HG13	1:K:411:GLU:HA	1.87	0.56
1:K:650:LYS:NZ	1:F:300:ILE:H	2.02	0.56
4:B:604:VAL:CG1	4:B:875:LEU:HB2	2.34	0.56
5:A:198:ALA:CB	5:A:234:LEU:HA	2.35	0.56
5:A:220:VAL:O	5:A:285:LEU:HA	2.04	0.56
5:A:632:LEU:N	5:A:633:PRO:CD	2.68	0.56
1:K:338:PRO:O	1:K:341:MET:HG2	2.05	0.56
1:K:400:GLY:HA2	1:K:427:TYR:HA	1.86	0.56
1:K:506:LYS:HB3	2:G:311:ILE:CA	2.26	0.56
1:K:523:THR:H	1:K:526:SER:HB2	1.69	0.56
2:G:90:ARG:HH22	2:G:152:PRO:HA	1.70	0.56
2:G:334:VAL:HG23	2:G:335:LEU:HG	1.88	0.56
1:F:140:LEU:N	1:F:140:LEU:HD12	2.20	0.56
4:C:283:TYR:HB2	4:C:290:TYR:HB2	1.88	0.56
4:C:339:LEU:HD21	4:C:965:PHE:HB2	1.87	0.56
4:C:429:ASN:HD22	4:C:429:ASN:N	2.01	0.56
4:B:468:ARG:HH21	4:B:922:MET:HE3	1.69	0.56
4:B:849:VAL:O	4:B:868:ASN:HA	2.06	0.56
5:A:596:GLU:HG2	5:A:626:TYR:CD2	2.41	0.56
5:A:757:ARG:HG3	5:A:757:ARG:HH11	1.70	0.56
5:A:1043:VAL:CG1	5:A:1086:GLU:HB3	2.35	0.56
5:A:1134:LEU:HB3	5:A:1187:LEU:HD11	1.85	0.56
1:K:375:PRO:HD3	1:K:454:PRO:CG	2.34	0.56
1:F:450:TYR:CE2	1:F:452:TYR:HB2	2.40	0.56
1:F:514:VAL:O	1:F:518:LEU:HG	2.04	0.56
4:C:380:GLN:HE21	4:C:388:GLY:HA2	1.70	0.56
4:C:528:ASN:ND2	4:C:530:THR:H	2.03	0.56
4:C:825:MET:SD	4:C:908:MET:HG2	2.46	0.56
4:C:1048:GLY:HA3	4:C:1136:ARG:HE	1.70	0.56
4:C:1057:SER:OG	4:C:1058:PRO:HD2	2.05	0.56
4:C:1066:VAL:HB	4:C:1200:ILE:HD11	1.86	0.56
4:C:1086:GLY:HA3	4:C:1090:ALA:O	2.06	0.56
4:C:1189:ASP:OD1	4:C:1221:ALA:HB2	2.04	0.56
4:B:673:ARG:HE	4:B:674:ARG:HH12	1.53	0.56
4:B:822:ILE:HG22	4:B:826:LEU:CD2	2.33	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:635:ILE:CG2	5:A:658:VAL:HG22	2.33	0.56
5:A:710:SER:HA	5:A:753:THR:HA	1.87	0.56
5:A:712:GLU:N	5:A:712:GLU:CD	2.59	0.56
5:A:1081:ASP:HB3	5:A:1086:GLU:H	1.69	0.56
1:K:517:GLU:CB	2:G:313:TYR:CD2	2.60	0.56
1:K:525:GLU:HG3	1:F:447:SER:HB2	0.72	0.56
2:H:206:PHE:CE2	2:H:267:LYS:HB3	2.40	0.56
2:G:26:TYR:HD1	2:G:32:TRP:CD1	2.23	0.56
4:C:265:SER:CA	4:C:308:THR:HA	2.34	0.56
4:C:295:PRO:HG2	4:C:408:PRO:HA	1.88	0.56
4:C:321:SER:HA	4:C:368:ASP:OD1	2.06	0.56
4:C:1085:PHE:CD2	4:B:285:PHE:HB2	2.41	0.56
4:B:244:THR:O	4:B:248:LEU:HG	2.06	0.56
4:B:556:ILE:O	4:B:559:THR:HG22	2.06	0.56
5:A:380:ARG:NH1	5:A:382:SER:HB2	2.20	0.56
5:A:631:ILE:HA	5:A:634:ASN:ND2	2.20	0.56
5:A:1257:LEU:HD22	5:A:1263:VAL:CG2	2.35	0.56
1:K:149:GLY:HA3	1:K:155:ALA:HB2	1.87	0.56
1:K:284:LYS:HE2	1:K:284:LYS:O	2.05	0.56
2:G:91:VAL:HG11	2:G:210:PHE:HB3	1.87	0.56
2:G:299:VAL:HG21	2:G:324:TYR:HD1	1.69	0.56
1:F:544:SER:HA	1:F:607:PRO:CG	2.36	0.56
3:E:50:ARG:HH11	3:E:50:ARG:CB	1.96	0.56
3:E:170:MET:HG2	3:E:211:ARG:CB	2.26	0.56
4:C:461:ILE:HA	4:C:464:ARG:CD	2.30	0.56
4:C:521:ARG:HD2	4:C:828:PHE:CE1	2.41	0.56
4:C:721:TYR:N	4:C:737:GLU:O	2.33	0.56
4:C:844:PRO:HB3	4:C:1001:TYR:CD1	2.41	0.56
4:C:1087:MET:CE	4:B:282:ALA:CB	2.54	0.56
4:B:782:GLN:N	4:B:783:PRO:CD	2.68	0.56
5:A:171:LYS:CD	5:A:190:LYS:HG3	2.36	0.56
5:A:201:SER:HB3	5:A:207:LEU:CG	2.34	0.56
5:A:1155:THR:HG21	5:A:1198:ILE:HG12	1.88	0.56
1:K:346:GLN:HA	1:K:360:ASN:CA	2.35	0.56
1:K:379:VAL:HG22	1:K:449:ALA:CB	2.36	0.56
1:K:615:ALA:HB3	1:K:618:LEU:HB2	1.87	0.56
2:I:48:ALA:HA	2:I:60:SER:HA	1.87	0.56
2:G:109:MET:SD	2:G:131:LEU:HB2	2.45	0.56
2:G:162:LYS:HB3	2:G:166:TYR:CE1	2.40	0.56
2:G:248:ASP:HB3	2:G:347:THR:HG22	1.87	0.56
1:F:153:ARG:HH11	1:F:153:ARG:CB	2.19	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:740:LEU:HB3	4:C:835:TYR:CD1	2.41	0.56
4:B:747:PRO:CG	5:A:154:SER:CA	2.44	0.56
5:A:434:ALA:HB1	5:A:644:PHE:O	2.06	0.56
5:A:991:THR:HB	5:A:1001:LEU:HD22	1.87	0.56
5:A:1099:TYR:HB2	5:A:1117:PHE:CZ	2.40	0.56
1:K:101:VAL:HB	1:K:166:ILE:HG22	1.88	0.56
1:K:367:VAL:HG22	1:K:410:PHE:CE2	2.41	0.56
2:G:292:LEU:CD2	2:G:331:ALA:HB2	2.34	0.56
2:G:309:GLU:CD	2:G:309:GLU:N	2.59	0.56
1:F:566:VAL:CG2	1:F:567:PRO:HD3	2.36	0.56
4:C:1041:ALA:HB3	4:C:1144:TYR:CE1	2.40	0.56
4:C:1104:PHE:HD2	4:C:1126:PHE:HD2	1.51	0.56
4:C:1130:ILE:HG22	4:C:1160:TRP:HZ3	1.71	0.56
4:B:293:GLN:NE2	4:B:401:LYS:HA	2.21	0.56
4:B:823:ALA:HB3	4:B:824:PRO:HD3	1.88	0.56
5:A:922:VAL:C	5:A:923:LEU:HD12	2.26	0.56
5:A:1258:PRO:CB	5:A:1261:TRP:HB2	2.35	0.56
1:K:324:ARG:NH1	1:K:487:ASP:OD1	2.39	0.56
2:H:257:TYR:CD1	2:H:344:SER:HB2	2.41	0.56
4:C:493:VAL:HG12	4:C:1271:VAL:HG22	1.87	0.56
4:C:1087:MET:HE1	4:B:282:ALA:CB	1.79	0.56
4:C:1151:TYR:HB3	4:C:1181:MET:HG2	1.88	0.56
4:B:347:ARG:HB3	4:B:1176:PRO:CB	2.34	0.56
4:B:363:LEU:O	4:B:367:LEU:HG	2.05	0.56
4:B:573:PRO:HB3	4:B:623:LEU:HD21	1.86	0.56
4:B:1231:ARG:HH21	4:B:1251:VAL:H	1.54	0.56
5:A:80:ASP:HA	5:A:83:GLU:OE1	2.05	0.56
5:A:165:GLU:HG2	5:A:197:LYS:CB	2.25	0.56
5:A:1147:VAL:HG21	5:A:1153:LEU:HD11	1.88	0.56
1:K:273:SER:N	1:K:276:ALA:O	2.39	0.56
2:G:309:GLU:N	2:G:309:GLU:OE1	2.24	0.56
3:E:86:TRP:O	3:E:96:TRP:HB2	2.06	0.56
3:E:246:ASP:HB3	3:E:249:GLU:CB	2.30	0.56
4:C:844:PRO:HB3	4:C:1001:TYR:CE1	2.41	0.56
4:B:846:MET:HB3	4:B:1002:GLN:HB3	1.88	0.56
4:B:1061:PRO:HB2	4:B:1062:PRO:HD2	1.88	0.56
5:A:70:THR:HA	5:A:73:TYR:CD1	2.41	0.56
5:A:778:ARG:HD2	5:A:778:ARG:C	2.24	0.56
1:K:461:ASP:OD2	1:K:462:PRO:HD2	2.07	0.55
2:I:310:LYS:HE2	1:F:517:GLU:OE2	2.06	0.55
2:H:100:LEU:HA	2:H:163:LEU:HD21	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:307:GLY:HA3	2:H:310:LYS:HE3	1.88	0.55
2:G:49:VAL:N	2:G:59:GLY:O	2.29	0.55
2:G:179:LEU:HD22	2:G:365:GLY:HA3	1.88	0.55
4:C:580:LYS:HE2	4:C:624:GLU:CG	2.36	0.55
4:B:606:THR:N	4:B:640:THR:OG1	2.37	0.55
4:B:848:GLY:HA3	4:B:868:ASN:HB2	1.88	0.55
4:B:864:LEU:HD21	4:B:1000:GLN:HB3	1.87	0.55
4:B:1186:SER:C	4:B:1221:ALA:HB3	2.27	0.55
5:A:200:TYR:CG	5:A:232:HIS:HB3	2.40	0.55
5:A:837:LEU:C	5:A:837:LEU:CD2	2.75	0.55
5:A:990:TRP:CH2	5:A:1006:ILE:HG12	2.42	0.55
1:K:48:TRP:HB2	1:K:155:ALA:HB1	1.88	0.55
1:K:337:ILE:CG1	1:K:411:GLU:HA	2.36	0.55
1:K:514:VAL:CG1	1:K:517:GLU:HG2	2.36	0.55
2:H:19:PHE:CZ	2:H:291:LYS:HG2	2.41	0.55
2:H:273:SER:H	2:H:281:LYS:H	1.52	0.55
2:H:364:LEU:O	2:H:364:LEU:HD12	2.05	0.55
2:G:20:GLU:HB3	2:G:22:ARG:HG2	1.89	0.55
2:G:32:TRP:HH2	2:G:49:VAL:HG13	1.70	0.55
1:F:112:THR:O	1:F:116:MET:HG2	2.06	0.55
1:F:283:SER:HB2	1:F:640:LEU:HD11	1.87	0.55
4:C:763:ASN:C	4:C:763:ASN:HD22	2.09	0.55
4:C:1082:ARG:CA	4:B:414:PRO:C	2.64	0.55
4:B:935:VAL:HA	4:B:938:ILE:HG12	1.88	0.55
4:B:1048:GLY:N	4:B:1198:TYR:O	2.40	0.55
5:A:172:TYR:HD1	5:A:190:LYS:HB2	1.68	0.55
5:A:344:LEU:HD23	5:A:344:LEU:N	2.22	0.55
5:A:365:THR:HG21	5:A:369:TYR:CD2	2.41	0.55
5:A:825:VAL:HB	5:A:846:VAL:HA	1.87	0.55
5:A:828:LEU:HD12	5:A:888:CYS:HB2	1.88	0.55
5:A:1170:LYS:HD3	5:A:1171:PHE:CE1	2.41	0.55
1:K:125:LEU:O	1:K:129:ARG:N	2.40	0.55
2:I:113:VAL:HG21	2:I:128:LEU:HD21	1.86	0.55
1:F:540:ILE:HD13	1:F:608:SER:HB2	1.87	0.55
1:F:606:ASP:CG	1:F:609:THR:HG23	2.27	0.55
4:C:331:ASN:HB3	4:C:334:LEU:HD12	1.88	0.55
4:C:332:ILE:HG12	4:C:348:GLY:H	1.71	0.55
4:C:807:THR:O	4:C:811:LEU:HG	2.06	0.55
4:C:1043:GLY:N	4:C:1142:GLY:O	2.30	0.55
4:C:1087:MET:H	4:C:1090:ALA:HB3	1.70	0.55
4:B:243:LYS:O	4:B:247:LEU:HG	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:265:SER:HA	4:B:308:THR:HA	1.89	0.55
4:B:836:VAL:HB	4:B:839:ASP:CB	2.33	0.55
4:B:864:LEU:CD1	4:B:868:ASN:HB3	2.37	0.55
4:B:871:VAL:HG12	4:B:872:GLY:N	2.20	0.55
5:A:422:LEU:O	5:A:698:ASP:N	2.39	0.55
5:A:562:LEU:HG	5:A:578:VAL:CG1	2.36	0.55
5:A:704:THR:HA	5:A:758:ARG:O	2.06	0.55
5:A:705:GLY:HA3	5:A:758:ARG:NH2	2.22	0.55
5:A:954:PHE:HB3	5:A:956:ARG:NE	2.22	0.55
5:A:1193:TYR:CZ	5:A:1286:LEU:HB2	2.41	0.55
1:K:228:LEU:O	1:K:232:TYR:N	2.39	0.55
1:K:450:TYR:CE1	2:H:62:GLN:CB	2.74	0.55
1:K:549:ALA:HB1	1:K:635:LEU:HD11	1.89	0.55
1:K:664:PHE:C	1:K:664:PHE:CD1	2.80	0.55
2:I:312:ARG:O	1:F:506:LYS:O	2.24	0.55
2:H:318:GLY:HA3	2:H:322:GLY:HA3	1.87	0.55
2:G:206:PHE:HE2	2:G:267:LYS:HB3	1.71	0.55
2:G:268:MET:SD	2:G:269:PRO:CD	2.95	0.55
3:E:163:TYR:HE1	3:E:269:SER:HB2	1.71	0.55
3:E:182:TYR:O	4:B:500:SER:HB3	2.05	0.55
4:C:924:THR:HG23	4:C:984:LEU:CD2	2.36	0.55
5:A:3:ASN:O	5:A:341:GLU:HG3	2.06	0.55
5:A:6:GLY:HA3	5:A:333:GLN:O	2.05	0.55
5:A:165:GLU:HB2	5:A:199:PHE:CD1	2.41	0.55
5:A:705:GLY:HA3	5:A:758:ARG:CZ	2.37	0.55
5:A:743:ILE:HG23	5:A:752:LEU:HB2	1.88	0.55
5:A:823:ASP:O	5:A:844:SER:HB3	2.06	0.55
5:A:1103:ALA:CB	5:A:1114:LEU:HD21	2.33	0.55
5:A:1136:PHE:CD2	5:A:1228:LEU:HD22	2.41	0.55
1:K:210:CYS:HG	1:K:211:PRO:CD	2.02	0.55
1:K:513:VAL:HG11	1:K:535:ALA:CB	2.36	0.55
2:I:196:ARG:HG3	2:I:355:PRO:CB	2.33	0.55
2:G:178:ASP:CB	2:G:240:LYS:HE3	2.37	0.55
2:G:185:MET:HG2	2:G:223:TYR:CE1	2.42	0.55
1:F:521:SER:HA	1:F:613:GLN:HE22	1.71	0.55
4:C:218:ARG:HH21	4:C:239:VAL:HG22	1.71	0.55
4:C:1085:PHE:CB	4:B:285:PHE:CD1	2.75	0.55
5:A:26:THR:HB	5:A:108:ASN:O	2.07	0.55
5:A:156:PHE:O	5:A:156:PHE:HD2	1.90	0.55
5:A:417:LEU:HD22	5:A:711:ILE:HG13	1.88	0.55
5:A:705:GLY:O	5:A:758:ARG:N	2.31	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:927:ASN:HB3	5:A:949:TYR:HE1	1.72	0.55
5:A:1158:ARG:HG3	5:A:1158:ARG:HH11	1.72	0.55
1:K:145:ASP:HB3	1:K:161:LYS:HG2	1.87	0.55
1:K:344:LEU:HA	1:K:362:ARG:HA	1.89	0.55
1:K:352:ASN:CB	2:H:64:LYS:CD	2.81	0.55
2:H:236:ARG:NH1	2:H:365:GLY:HA3	2.21	0.55
2:G:257:TYR:HB3	2:G:344:SER:N	2.21	0.55
1:F:668:VAL:O	1:F:672:PHE:N	2.39	0.55
3:E:90:ARG:HD2	3:E:93:ARG:N	2.21	0.55
3:E:177:GLN:CB	4:B:497:TYR:CG	2.79	0.55
3:E:258:ASN:HD22	4:C:854:ARG:HH11	1.52	0.55
4:C:841:ASP:HB3	4:C:1005:ASN:CB	2.25	0.55
4:B:504:LEU:CB	4:B:1264:THR:HG22	2.26	0.55
4:B:959:ALA:HB2	4:B:993:ARG:HH22	1.72	0.55
5:A:199:PHE:O	5:A:233:TYR:N	2.40	0.55
5:A:221:LEU:HD21	5:A:252:THR:HG23	1.88	0.55
5:A:694:PHE:C	5:A:694:PHE:CD2	2.80	0.55
5:A:986:TYR:CG	5:A:986:TYR:O	2.59	0.55
1:K:251:ASP:O	1:K:255:GLY:N	2.34	0.55
3:E:244:ARG:HG2	3:E:336:VAL:HG13	1.89	0.55
4:C:466:MET:HE3	4:C:469:LEU:HB2	1.89	0.55
4:C:476:PRO:HD3	4:C:505:MET:SD	2.46	0.55
4:B:663:PRO:O	4:B:687:CYS:SG	2.65	0.55
4:B:768:VAL:O	4:B:772:MET:HG3	2.06	0.55
4:B:821:VAL:O	4:B:824:PRO:HD2	2.06	0.55
4:B:1109:ILE:HD13	4:B:1138:ARG:HB3	1.88	0.55
5:A:606:THR:HB	5:A:659:HIS:CE1	2.41	0.55
5:A:1172:GLN:N	5:A:1184:ASN:O	2.35	0.55
1:K:43:PRO:HB2	1:K:102:VAL:HG12	1.88	0.55
1:K:46:VAL:HG13	1:K:65:ARG:HD2	1.89	0.55
1:K:49:ILE:CD1	1:K:53:ASP:CB	2.76	0.55
1:K:550:ILE:HD12	1:K:603:PHE:CE2	2.41	0.55
2:G:133:TRP:HB2	2:G:220:VAL:HB	1.88	0.55
1:F:213:GLN:CB	1:F:674:ALA:HB1	2.34	0.55
1:F:284:LYS:HE2	1:F:288:GLN:HG3	1.88	0.55
3:E:90:ARG:O	3:E:116:ALA:HA	2.06	0.55
3:E:271:PHE:N	3:E:271:PHE:CD1	2.75	0.55
4:C:257:THR:O	4:C:372:LEU:HB2	2.05	0.55
4:C:340:ASN:ND2	4:C:349:ALA:HB1	2.22	0.55
4:C:951:TRP:CZ3	4:C:1143:ALA:HB2	2.41	0.55
4:C:994:MET:CE	4:C:997:LEU:HD21	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:678:PHE:HA	4:B:683:THR:HG21	1.88	0.55
5:A:256:LEU:HD23	5:A:283:TYR:HB2	1.89	0.55
5:A:711:ILE:CG2	5:A:714:PRO:HB3	2.36	0.55
5:A:745:GLU:HG2	5:A:749:ALA:C	2.27	0.55
5:A:826:LEU:O	5:A:887:THR:N	2.36	0.55
5:A:837:LEU:O	5:A:840:ILE:HG13	2.07	0.55
1:K:219:LEU:O	1:K:223:LEU:HB2	2.07	0.55
1:K:371:ASP:HB2	1:K:466:TYR:N	2.14	0.55
1:K:450:TYR:HA	2:H:62:GLN:NE2	2.22	0.55
2:H:180:VAL:HG22	2:H:244:THR:HA	1.88	0.55
1:F:416:ALA:O	1:F:419:ILE:HG12	2.06	0.55
3:E:142:ARG:HH11	3:E:142:ARG:CB	2.06	0.55
4:C:654:ASN:ND2	4:C:671:GLN:O	2.40	0.55
4:C:779:GLN:HG2	4:C:782:GLN:HG2	1.89	0.55
4:C:823:ALA:N	4:C:824:PRO:HD2	2.21	0.55
4:C:1077:PHE:HA	4:C:1097:GLU:HB2	1.88	0.55
4:C:1211:CYS:HA	4:C:1225:LYS:CG	2.31	0.55
4:B:457:LEU:HD12	4:B:457:LEU:O	2.07	0.55
4:B:547:SER:HA	4:B:818:GLU:OE2	2.06	0.55
4:B:847:VAL:HA	4:B:1001:TYR:HA	1.88	0.55
5:A:58:GLN:HG2	5:A:60:PHE:CE1	2.42	0.55
5:A:1171:PHE:HA	5:A:1185:VAL:HA	1.88	0.55
5:A:1228:LEU:N	5:A:1228:LEU:HD23	2.22	0.55
1:K:44:GLY:CA	1:K:102:VAL:HB	2.37	0.55
1:K:66:MET:HB3	1:K:100:LEU:HG	1.88	0.55
1:K:223:LEU:HB3	1:K:230:ARG:HH22	1.72	0.55
2:H:290:ALA:O	2:H:294:THR:HG23	2.07	0.55
2:G:239:ARG:O	2:G:243:VAL:N	2.40	0.55
1:F:68:SER:CB	1:F:97:ASP:HA	2.37	0.55
1:F:377:ARG:HB3	1:F:496:SER:HB2	1.89	0.55
3:E:46:ILE:CB	3:E:51:GLY:HA2	2.37	0.55
3:E:334:ARG:HB3	3:E:407:THR:HG21	1.88	0.55
4:C:591:PHE:HE1	4:C:811:LEU:HD21	1.71	0.55
4:C:603:VAL:HG22	4:C:831:PHE:HB3	1.89	0.55
4:C:748:ALA:HA	4:C:813:GLN:CB	2.34	0.55
4:C:922:MET:C	4:C:922:MET:SD	2.85	0.55
4:C:1074:VAL:HG11	4:C:1109:ILE:HG13	1.89	0.55
4:B:409:THR:HG22	4:B:428:ARG:HH21	1.72	0.55
4:B:809:MET:HB3	4:B:891:TYR:OH	2.07	0.55
4:B:864:LEU:HD12	4:B:868:ASN:HB3	1.88	0.55
4:B:929:GLN:O	4:B:932:VAL:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:159:SER:HB3	5:A:164:LEU:HB2	1.89	0.55
5:A:323:THR:O	5:A:327:LEU:N	2.28	0.55
5:A:910:LEU:HD12	5:A:910:LEU:O	2.06	0.55
5:A:1153:LEU:HA	5:A:1200:ASP:HA	1.88	0.55
1:K:337:ILE:HB	1:K:410:PHE:CZ	2.42	0.54
1:K:624:TRP:CZ3	1:K:628:ALA:HB2	2.41	0.54
2:G:199:GLY:O	2:G:203:GLN:N	2.32	0.54
1:F:68:SER:HB3	1:F:97:ASP:CA	2.37	0.54
3:E:167:ASP:HB3	3:E:170:MET:CG	2.37	0.54
3:E:170:MET:HB2	3:E:215:ILE:HD11	1.88	0.54
3:E:201:ARG:HH11	3:E:201:ARG:HB2	1.71	0.54
4:C:301:VAL:HG22	4:C:1209:LEU:HD21	1.88	0.54
4:C:407:TYR:HD2	4:C:431:VAL:HG22	1.72	0.54
4:C:440:MET:HB3	4:C:445:SER:HA	1.89	0.54
4:C:1158:ASN:ND2	4:C:1160:TRP:H	2.05	0.54
4:B:253:PRO:N	4:B:979:LEU:HD21	2.23	0.54
4:B:256:VAL:CG1	4:B:372:LEU:HD12	2.37	0.54
4:B:674:ARG:HD3	4:B:674:ARG:H	1.71	0.54
4:B:1074:VAL:HG11	4:B:1109:ILE:HG12	1.89	0.54
5:A:10:ALA:N	5:A:313:GLN:O	2.39	0.54
5:A:12:SER:HB2	5:A:382:SER:HB3	1.88	0.54
5:A:178:TYR:CE1	5:A:184:ASP:HB3	2.41	0.54
5:A:635:ILE:HG13	5:A:664:LEU:HD12	1.88	0.54
5:A:743:ILE:O	5:A:787:ILE:N	2.39	0.54
5:A:1129:ALA:HB3	5:A:1144:ASP:HB2	1.90	0.54
1:K:143:TYR:HA	1:K:163:VAL:O	2.07	0.54
1:K:437:PHE:HB2	1:K:440:GLN:CB	2.37	0.54
1:K:515:PRO:O	1:K:519:ILE:HG12	2.07	0.54
1:F:105:GLU:HA	1:F:108:ILE:HD12	1.88	0.54
3:E:48:LEU:O	3:E:50:ARG:N	2.40	0.54
4:C:960:ALA:O	4:C:964:THR:HG23	2.07	0.54
4:C:1074:VAL:CG1	4:C:1109:ILE:HG13	2.37	0.54
4:B:807:THR:HG21	4:B:886:LEU:HD23	1.89	0.54
4:B:1051:GLN:HB2	4:B:1196:VAL:HG22	1.89	0.54
4:B:1131:LYS:HD2	4:B:1160:TRP:CD1	2.41	0.54
5:A:132:LEU:HA	5:A:135:LEU:HG	1.88	0.54
5:A:423:ARG:CB	5:A:697:VAL:HA	2.38	0.54
5:A:582:VAL:HG23	5:A:591:SER:HB2	1.89	0.54
5:A:1077:SER:O	5:A:1089:LEU:HA	2.07	0.54
5:A:1122:PRO:HG2	5:A:1150:TYR:CB	2.36	0.54
5:A:1257:LEU:CD2	5:A:1263:VAL:HG23	2.36	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:272:PRO:HG3	1:K:278:PRO:HD3	1.89	0.54
1:K:508:ALA:N	2:G:312:ARG:C	2.55	0.54
2:G:26:TYR:N	2:G:42:MET:O	2.34	0.54
1:F:248:GLN:HA	1:F:248:GLN:HE21	1.72	0.54
1:F:459:LYS:CE	1:F:462:PRO:HA	2.36	0.54
1:F:664:PHE:HA	1:F:667:LYS:HD2	1.90	0.54
3:E:305:ASP:HB3	3:E:308:SER:CB	2.38	0.54
4:C:433:ARG:HB2	4:C:450:VAL:HG12	1.89	0.54
4:C:502:ASN:OD1	4:C:502:ASN:N	2.32	0.54
4:C:929:GLN:O	4:C:932:VAL:HG22	2.07	0.54
5:A:574:VAL:O	5:A:613:VAL:N	2.39	0.54
5:A:658:VAL:HG12	5:A:659:HIS:ND1	2.23	0.54
5:A:804:HIS:NE2	5:A:953:LYS:HB3	2.22	0.54
1:K:174:TYR:CZ	1:K:178:ILE:HD11	2.43	0.54
1:K:378:PHE:O	1:K:449:ALA:HA	2.07	0.54
1:K:382:LEU:HG	1:K:491:ALA:CB	2.38	0.54
2:G:292:LEU:HD21	2:G:328:MET:CA	2.30	0.54
3:E:41:GLN:CA	3:E:41:GLN:HE21	2.18	0.54
3:E:47:SER:HB2	3:E:50:ARG:NH1	2.22	0.54
3:E:161:ILE:HA	3:E:273:MET:CA	2.37	0.54
4:C:814:LEU:N	4:C:814:LEU:CD2	2.66	0.54
5:A:68:LEU:HD12	5:A:125:SER:HB3	1.89	0.54
5:A:455:GLN:HG2	5:A:621:ARG:HD2	1.88	0.54
5:A:554:VAL:HG22	5:A:557:GLY:H	1.73	0.54
5:A:637:SER:CA	5:A:664:LEU:HD11	2.37	0.54
5:A:642:LYS:HE3	5:A:644:PHE:HB2	1.90	0.54
5:A:806:CYS:O	5:A:810:MET:HG3	2.07	0.54
1:K:322:ASN:HB3	1:K:325:THR:CG2	2.37	0.54
2:G:40:PRO:HB2	2:G:52:MET:HG3	1.90	0.54
1:F:453:GLU:CB	1:F:456:GLN:HG2	2.37	0.54
4:C:262:LEU:HD12	4:C:311:ALA:HB1	1.89	0.54
4:C:844:PRO:HA	4:C:1002:GLN:O	2.07	0.54
4:C:974:LYS:NZ	4:C:982:MET:HA	2.23	0.54
4:C:1077:PHE:CD2	4:C:1096:ASP:HA	2.42	0.54
4:C:1131:LYS:HG3	4:C:1132:THR:HG23	1.89	0.54
4:B:582:ARG:O	4:B:880:ARG:HD2	2.07	0.54
4:B:664:MET:HA	4:B:664:MET:CE	2.37	0.54
4:B:848:GLY:CA	4:B:868:ASN:HB2	2.37	0.54
5:A:434:ALA:HB2	5:A:645:VAL:HG22	1.88	0.54
5:A:448:VAL:HG23	5:A:668:SER:HA	1.88	0.54
5:A:584:GLY:N	5:A:587:ASP:HB2	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:370:LEU:N	1:K:466:TYR:O	2.40	0.54
1:K:542:ARG:HA	1:K:545:LYS:HE2	1.89	0.54
2:I:18:ALA:HA	2:I:23:VAL:HG22	1.89	0.54
2:I:47:GLY:HA2	2:I:61:LEU:HG	1.89	0.54
2:G:5:LEU:HD13	2:G:6:PRO:CD	2.38	0.54
1:F:110:ASN:HA	1:F:113:LYS:HD2	1.89	0.54
1:F:336:MET:HE2	1:F:364:GLY:HA2	1.88	0.54
1:F:413:TRP:CZ2	1:F:419:ILE:HA	2.43	0.54
1:F:573:ALA:O	1:F:577:LEU:HG	2.08	0.54
1:F:615:ALA:O	1:F:619:SER:HB2	2.08	0.54
3:E:49:GLY:N	3:E:248:ALA:HB2	2.22	0.54
4:C:732:LEU:CD1	4:C:1011:VAL:HG11	2.37	0.54
5:A:7:VAL:CG2	5:A:334:ILE:HA	2.38	0.54
5:A:13:LEU:O	5:A:381:ILE:HG23	2.08	0.54
5:A:367:TYR:C	5:A:367:TYR:CD2	2.81	0.54
5:A:390:THR:O	5:A:787:ILE:HA	2.08	0.54
5:A:424:PRO:HD2	5:A:696:TYR:O	2.07	0.54
5:A:429:ILE:HG13	5:A:475:ALA:HB1	1.89	0.54
5:A:704:THR:OG1	5:A:760:PRO:HD3	2.08	0.54
5:A:833:GLU:HA	5:A:856:GLN:HE21	1.73	0.54
2:I:205:GLN:O	2:I:267:LYS:HD2	2.08	0.54
2:H:198:GLU:N	2:H:201:ALA:HB3	2.22	0.54
1:F:228:LEU:HD23	1:F:228:LEU:N	2.23	0.54
1:F:407:LYS:HB3	1:F:463:GLU:HB3	1.89	0.54
1:F:452:TYR:CE2	1:F:454:PRO:HG3	2.42	0.54
3:E:47:SER:O	3:E:48:LEU:HB2	2.05	0.54
4:C:495:SER:N	4:C:496:PRO:CD	2.70	0.54
4:C:922:MET:SD	4:C:922:MET:O	2.66	0.54
4:C:924:THR:HG23	4:C:984:LEU:HD21	1.90	0.54
4:B:378:PHE:HB3	4:B:390:ASN:HB3	1.89	0.54
4:B:685:PRO:O	4:B:689:MET:HG2	2.07	0.54
4:B:934:LEU:HB3	4:B:965:PHE:CZ	2.43	0.54
4:B:1080:ASP:HB3	4:B:1095:ARG:NH2	2.23	0.54
5:A:131:ASP:N	5:A:131:ASP:OD1	2.40	0.54
5:A:201:SER:N	5:A:231:HIS:O	2.33	0.54
5:A:288:GLY:HA2	5:A:291:TYR:HD1	1.72	0.54
5:A:515:PHE:N	5:A:575:TYR:O	2.32	0.54
5:A:938:GLY:O	5:A:953:LYS:HG2	2.08	0.54
5:A:947:LYS:HB3	5:A:960:TYR:CD1	2.43	0.54
1:K:44:GLY:HA2	1:K:102:VAL:HB	1.90	0.54
1:K:350:THR:HG22	1:K:356:ASN:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:179:LEU:HB3	2:H:363:ILE:HB	1.88	0.54
2:G:139:ASN:OD1	2:G:139:ASN:N	2.35	0.54
3:E:28:HIS:CB	3:E:57:LEU:HD12	2.37	0.54
3:E:243:ARG:NH1	4:B:435:ASP:OD1	2.41	0.54
3:E:306:ASN:O	3:E:309:VAL:HG22	2.08	0.54
4:C:295:PRO:CG	4:C:404:SER:HB2	2.34	0.54
4:C:515:GLN:CD	4:C:732:LEU:HD21	2.28	0.54
4:C:691:ILE:H	4:C:691:ILE:CD1	2.21	0.54
4:C:1082:ARG:HG2	4:B:413:THR:O	2.04	0.54
4:B:487:ALA:HB1	4:B:491:VAL:H	1.73	0.54
4:B:490:TYR:CB	4:B:905:ILE:HD12	2.38	0.54
4:B:628:ASP:O	4:B:632:LEU:HG	2.08	0.54
4:B:746:GLN:HB3	5:A:155:GLN:N	2.22	0.54
5:A:222:VAL:CA	5:A:283:TYR:HD2	2.21	0.54
5:A:583:ASP:OD2	5:A:583:ASP:N	2.34	0.54
5:A:730:LEU:HD23	5:A:730:LEU:C	2.27	0.54
5:A:810:MET:HG2	5:A:990:TRP:CD2	2.43	0.54
5:A:1074:PRO:HG2	5:A:1092:VAL:O	2.07	0.54
2:I:93:ALA:HA	2:I:96:LYS:HD3	1.89	0.54
2:I:99:MET:SD	2:I:265:LEU:HD12	2.48	0.54
2:I:270:ALA:HB1	2:I:282:MET:HG3	1.89	0.54
2:G:72:ARG:NH2	2:G:74:ASN:HA	2.23	0.54
3:E:304:ILE:C	3:E:324:GLY:HA3	2.28	0.54
3:E:305:ASP:HB2	3:E:324:GLY:O	2.07	0.54
3:E:325:ASN:N	3:E:325:ASN:ND2	2.55	0.54
4:C:265:SER:HB3	4:C:308:THR:HG22	1.89	0.54
4:C:547:SER:CB	4:C:592:ARG:HH12	2.21	0.54
4:C:1159:ALA:O	4:C:1163:THR:HG23	2.08	0.54
4:C:1166:TRP:O	4:C:1176:PRO:HG3	2.08	0.54
5:A:92:VAL:HA	5:A:95:TYR:HD1	1.73	0.54
5:A:515:PHE:CE1	5:A:574:VAL:HG13	2.43	0.54
5:A:810:MET:HG2	5:A:990:TRP:CE2	2.42	0.54
5:A:811:TYR:CD2	5:A:1018:ILE:HD11	2.43	0.54
5:A:991:THR:HB	5:A:1001:LEU:HD13	1.90	0.54
1:K:587:ASN:HB2	1:K:592:LEU:HD21	1.90	0.54
2:H:158:ASP:HB3	2:H:161:THR:HB	1.89	0.54
2:H:270:ALA:HB1	2:H:282:MET:HG3	1.90	0.54
2:G:216:LEU:O	2:G:266:GLY:HA3	2.08	0.54
2:G:236:ARG:NE	2:G:240:LYS:HD2	2.23	0.54
2:G:331:ALA:N	2:G:332:PRO:CD	2.71	0.54
1:F:140:LEU:HD12	1:F:140:LEU:H	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:375:PRO:HB2	1:F:498:LEU:C	2.28	0.54
1:F:632:LYS:O	1:F:636:ARG:HG3	2.08	0.54
4:B:492:THR:O	4:B:1274:VAL:N	2.26	0.54
5:A:355:TYR:N	5:A:375:LEU:O	2.32	0.54
5:A:486:ASP:HB2	5:A:529:VAL:HG11	1.90	0.54
5:A:1035:ILE:HB	5:A:1038:GLN:CG	2.38	0.54
5:A:1053:PHE:O	5:A:1065:THR:N	2.38	0.54
5:A:1075:GLN:HB2	5:A:1092:VAL:H	1.73	0.54
5:A:1124:VAL:CG1	5:A:1209:TYR:HD2	2.19	0.54
1:K:55:THR:CG2	1:K:147:TYR:CG	2.91	0.53
1:K:581:TYR:CG	2:G:72:ARG:C	2.82	0.53
2:H:137:ASP:N	2:H:138:PRO:HD3	2.23	0.53
2:H:220:VAL:HG13	2:H:264:ILE:HG23	1.89	0.53
2:H:291:LYS:O	2:H:295:VAL:HG13	2.08	0.53
2:G:61:LEU:CB	1:F:425:VAL:O	2.56	0.53
3:E:95:VAL:O	3:E:105:VAL:N	2.39	0.53
4:C:285:PHE:CB	4:C:290:TYR:HE1	2.18	0.53
4:C:449:ASP:HA	4:C:1257:VAL:O	2.07	0.53
4:C:598:TRP:CD1	4:C:742:PRO:HG3	2.44	0.53
4:C:1157:ALA:H	4:C:1195:ALA:HA	1.73	0.53
4:B:1260:TYR:HB3	4:B:1262:TYR:CZ	2.43	0.53
5:A:414:VAL:O	5:A:418:THR:N	2.41	0.53
5:A:616:ILE:HB	5:A:651:LEU:CB	2.26	0.53
5:A:775:ILE:HD12	5:A:775:ILE:O	2.07	0.53
5:A:939:TYR:HA	5:A:953:LYS:CG	2.36	0.53
1:K:271:ALA:HB1	1:K:272:PRO:CD	2.38	0.53
1:K:505:VAL:HG23	1:K:510:VAL:HG21	1.89	0.53
2:H:27:SER:O	2:H:31:GLY:N	2.41	0.53
2:G:349:PHE:HZ	2:G:354:TYR:HE1	1.57	0.53
3:E:175:VAL:HG12	3:E:212:MET:SD	2.48	0.53
3:E:222:LEU:O	3:E:227:VAL:N	2.40	0.53
4:B:849:VAL:HG12	4:B:999:ILE:CG1	2.38	0.53
4:B:1229:VAL:HG13	4:B:1236:THR:CB	2.39	0.53
5:A:745:GLU:CA	5:A:750:ARG:HA	2.38	0.53
5:A:1237:GLU:HA	5:A:1251:ASN:HB2	1.89	0.53
1:K:210:CYS:SG	1:K:211:PRO:N	2.79	0.53
2:I:49:VAL:O	2:I:58:VAL:N	2.34	0.53
2:H:99:MET:SD	2:H:265:LEU:HD12	2.48	0.53
3:E:137:PRO:HD2	3:E:138:ARG:CZ	2.39	0.53
3:E:305:ASP:O	3:E:309:VAL:HG13	2.07	0.53
4:C:468:ARG:HD2	4:C:468:ARG:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:936:ALA:O	4:B:945:VAL:HG21	2.09	0.53
4:B:1002:GLN:CB	4:B:1008:THR:HG22	2.37	0.53
4:B:1233:ASN:HA	4:B:1236:THR:OG1	2.07	0.53
5:A:47:ARG:HB3	5:A:52:ASN:C	2.29	0.53
5:A:181:ASP:O	5:A:184:ASP:HB2	2.07	0.53
5:A:438:TYR:HB3	5:A:641:ILE:HG23	1.91	0.53
5:A:647:ASN:OD1	5:A:681:TYR:HA	2.09	0.53
5:A:721:GLN:O	5:A:725:ILE:HG12	2.08	0.53
5:A:1056:TYR:HA	5:A:1061:LEU:HA	1.89	0.53
5:A:1167:ASN:HB2	5:A:1270:TRP:HA	1.89	0.53
5:A:1194:LEU:HB3	5:A:1196:TYR:CE1	2.43	0.53
1:K:126:ASP:O	1:K:129:ARG:HG2	2.08	0.53
1:K:368:VAL:O	1:K:467:TYR:HA	2.09	0.53
1:K:508:ALA:CB	2:G:312:ARG:CD	2.82	0.53
2:G:137:ASP:N	2:G:138:PRO:HD3	2.23	0.53
2:G:179:LEU:HB2	2:G:363:ILE:CG2	2.37	0.53
3:E:161:ILE:HD12	3:E:271:PHE:HB2	1.89	0.53
3:E:183:PHE:CG	4:B:499:PRO:HA	2.39	0.53
4:C:305:VAL:HA	4:C:324:MET:HE1	1.90	0.53
4:B:474:ILE:N	4:B:505:MET:O	2.41	0.53
4:B:1093:MET:HB3	4:B:1101:MET:C	2.29	0.53
5:A:750:ARG:CG	5:A:750:ARG:NH1	2.64	0.53
5:A:1073:ILE:HG23	5:A:1074:PRO:HD2	1.90	0.53
5:A:1104:LEU:HD21	5:A:1111:PRO:HA	1.89	0.53
5:A:1154:MET:HG3	5:A:1173:PHE:HE1	1.72	0.53
5:A:1171:PHE:HB3	5:A:1183:MET:SD	2.48	0.53
1:K:197:THR:HG21	1:F:563:PRO:C	2.28	0.53
1:K:383:GLY:HA2	1:K:443:ILE:CB	2.34	0.53
1:K:403:VAL:HA	1:K:467:TYR:O	2.08	0.53
1:K:432:ALA:CB	1:K:443:ILE:HA	2.38	0.53
1:K:586:PHE:C	1:K:586:PHE:CD2	2.82	0.53
2:I:47:GLY:HA2	2:I:61:LEU:CD1	2.39	0.53
2:I:75:GLN:CD	1:F:581:TYR:HE1	2.11	0.53
2:I:156:VAL:HG12	2:I:159:LEU:HB2	1.89	0.53
2:G:218:TRP:CB	2:G:267:LYS:HG3	2.38	0.53
1:F:183:LYS:O	1:F:186:GLU:HB2	2.08	0.53
1:F:211:PRO:HB2	1:F:214:SER:CB	2.37	0.53
3:E:230:GLN:HG3	3:E:256:SER:HB2	1.90	0.53
4:C:1187:ASP:O	4:C:1220:ILE:HB	2.09	0.53
4:B:271:ILE:HG12	4:B:302:SER:HA	1.90	0.53
4:B:598:TRP:CE3	4:B:742:PRO:HG3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:848:GLY:C	4:B:868:ASN:HB2	2.28	0.53
5:A:437:TYR:CD1	5:A:437:TYR:N	2.77	0.53
5:A:440:ASP:HA	5:A:639:MET:HA	1.91	0.53
5:A:486:ASP:CB	5:A:529:VAL:HG11	2.39	0.53
5:A:552:TYR:HD2	5:A:553:ASP:H	1.56	0.53
1:K:594:LYS:HB3	1:K:598:ARG:CZ	2.37	0.53
2:H:118:LEU:HD11	2:H:122:ARG:HH11	1.73	0.53
3:E:131:PRO:HB2	3:E:135:ARG:CZ	2.39	0.53
3:E:230:GLN:HG3	3:E:256:SER:CB	2.39	0.53
4:C:234:GLN:HG2	4:C:246:GLN:CB	2.32	0.53
4:C:355:ARG:HA	4:C:952:ILE:HG21	1.91	0.53
4:C:851:ARG:HB3	4:C:994:MET:HB3	1.90	0.53
4:C:942:GLN:HB2	4:C:995:THR:CG2	2.38	0.53
4:C:984:LEU:O	4:C:988:LEU:HG	2.07	0.53
5:A:224:TYR:HB2	5:A:369:TYR:OH	2.08	0.53
5:A:448:VAL:H	5:A:666:TRP:C	2.12	0.53
5:A:552:TYR:HA	5:A:559:ILE:HA	1.90	0.53
5:A:750:ARG:NH1	5:A:750:ARG:CB	2.70	0.53
5:A:1122:PRO:HG2	5:A:1150:TYR:CD2	2.43	0.53
1:K:215:VAL:O	1:K:219:LEU:HG	2.09	0.53
2:H:174:ILE:CD1	2:H:363:ILE:HD13	2.39	0.53
3:E:165:ARG:HB2	3:E:269:SER:HB3	1.90	0.53
4:B:696:PRO:CG	4:B:703:ARG:HD3	2.26	0.53
4:B:1096:ASP:N	4:B:1100:MET:O	2.42	0.53
5:A:436:SER:HA	5:A:643:PRO:HA	1.91	0.53
5:A:705:GLY:N	5:A:758:ARG:HG2	2.21	0.53
5:A:713:ASN:N	5:A:714:PRO:CD	2.72	0.53
5:A:1159:ILE:HG13	5:A:1270:TRP:CZ3	2.44	0.53
2:I:23:VAL:HG12	2:I:25:ILE:HG13	1.90	0.53
2:G:100:LEU:HD13	2:G:163:LEU:HG	1.89	0.53
2:G:206:PHE:CE2	2:G:267:LYS:HB3	2.43	0.53
1:F:125:LEU:HG	1:F:185:LEU:CD2	2.39	0.53
3:E:92:LEU:H	3:E:116:ALA:CB	2.22	0.53
3:E:246:ASP:CB	3:E:249:GLU:HB3	2.32	0.53
3:E:360:LEU:C	3:E:360:LEU:CD2	2.78	0.53
4:C:573:PRO:HB3	4:C:623:LEU:CD2	2.37	0.53
4:C:637:PRO:HB3	4:C:714:PRO:HG2	1.90	0.53
4:C:647:LYS:CA	4:C:675:ALA:HB1	2.39	0.53
4:B:985:GLU:N	4:B:986:PRO:CD	2.72	0.53
5:A:407:MET:SD	5:A:407:MET:N	2.81	0.53
5:A:1054:ASN:HA	5:A:1064:SER:HA	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:54:GLU:HB3	1:K:64:ARG:O	2.09	0.53
1:K:213:GLN:O	1:K:217:LYS:HG2	2.08	0.53
1:K:588:PRO:O	1:K:592:LEU:HG	2.09	0.53
1:K:661:THR:HA	1:K:664:PHE:HD2	1.74	0.53
2:I:313:TYR:O	1:F:506:LYS:HA	1.98	0.53
2:G:50:VAL:C	2:G:58:VAL:HG22	2.30	0.53
2:G:54:CYS:HB3	2:G:73:CYS:HA	1.91	0.53
2:G:197:LEU:HB3	2:G:201:ALA:O	2.08	0.53
2:G:249:PHE:CG	2:G:259:ARG:HG2	2.44	0.53
2:G:295:VAL:O	2:G:299:VAL:HG23	2.09	0.53
1:F:324:ARG:HB3	1:F:490:ASP:HA	1.91	0.53
3:E:259:HIS:HE1	4:C:854:ARG:CD	2.18	0.53
3:E:340:CYS:HB3	3:E:354:GLN:CG	2.34	0.53
3:E:414:ILE:HA	3:E:417:LEU:HD12	1.91	0.53
4:C:905:ILE:HG23	4:C:909:TYR:CE1	2.44	0.53
4:B:983:LEU:O	4:B:984:LEU:HB2	2.07	0.53
5:A:385:GLN:NE2	5:A:385:GLN:HA	2.24	0.53
5:A:532:PRO:HB2	5:A:538:ILE:CG1	2.39	0.53
5:A:553:ASP:OD2	5:A:553:ASP:N	2.42	0.53
5:A:888:CYS:HB3	5:A:924:VAL:HG13	1.90	0.53
1:K:128:LEU:HD13	1:K:128:LEU:N	2.24	0.53
1:K:140:LEU:N	1:K:140:LEU:HD12	2.24	0.53
1:K:153:ARG:HH11	1:K:153:ARG:CB	2.14	0.53
1:K:250:MET:CG	1:K:255:GLY:HA2	2.38	0.53
1:K:609:THR:O	1:K:618:LEU:HD13	2.09	0.53
2:I:4:CYS:HA	2:I:306:TRP:CH2	2.44	0.53
2:H:50:VAL:HG22	2:H:57:VAL:HG22	1.90	0.53
2:H:183:PHE:C	2:H:262:THR:HG23	2.29	0.53
2:G:80:GLN:O	2:G:83:VAL:HG12	2.08	0.53
2:G:184:MET:HG2	2:G:261:THR:HG22	1.90	0.53
1:F:212:MET:HE3	1:F:215:VAL:HB	1.91	0.53
1:F:513:VAL:CG1	1:F:518:LEU:HD21	2.38	0.53
3:E:334:ARG:O	3:E:337:THR:HB	2.09	0.53
4:C:256:VAL:HG13	4:C:372:LEU:HD12	1.90	0.53
4:C:685:PRO:HB2	4:C:688:PHE:HB3	1.91	0.53
4:C:1093:MET:HB2	4:C:1101:MET:HB3	1.90	0.53
4:C:1231:ARG:O	4:C:1252:ASP:HA	2.09	0.53
5:A:45:PRO:HB2	5:A:54:ILE:CG1	2.35	0.53
5:A:59:LEU:HD11	5:A:173:LEU:HB2	1.90	0.53
5:A:453:LEU:HD22	5:A:674:LEU:HD12	1.90	0.53
5:A:498:ASP:HA	5:A:505:TYR:CE1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:687:ILE:HG21	5:A:995:LEU:CD1	2.39	0.53
5:A:1044:ILE:O	5:A:1086:GLU:HA	2.09	0.53
5:A:1131:PRO:HD3	5:A:1143:VAL:HG22	1.90	0.53
1:K:47:PRO:HB2	1:K:66:MET:H	1.73	0.52
1:K:193:ARG:HA	1:K:196:GLN:CD	2.29	0.52
1:K:368:VAL:HG12	1:K:370:LEU:HD23	1.91	0.52
2:H:95:TRP:HA	2:H:142:PHE:CE1	2.44	0.52
1:F:488:VAL:O	1:F:488:VAL:HG23	2.08	0.52
3:E:87:GLY:HA3	4:B:859:GLN:NE2	2.24	0.52
3:E:107:ALA:HB3	3:E:112:LEU:HD23	1.91	0.52
3:E:233:THR:HB	3:E:236:THR:HA	1.90	0.52
4:C:403:TYR:HA	4:C:406:MET:HE3	1.91	0.52
4:C:494:THR:HG22	4:C:496:PRO:CD	2.39	0.52
4:C:859:GLN:CB	4:B:438:GLN:O	2.57	0.52
4:B:303:ARG:NH1	4:B:1208:SER:HB3	2.25	0.52
4:B:376:THR:HG21	4:B:392:ARG:NE	2.24	0.52
4:B:451:PHE:CD2	4:B:1256:VAL:HG22	2.43	0.52
4:B:673:ARG:HE	4:B:674:ARG:NH1	2.06	0.52
4:B:1149:HIS:O	4:B:1181:MET:HA	2.09	0.52
5:A:17:THR:CG2	5:A:17:THR:O	2.56	0.52
5:A:189:ALA:HA	5:A:192:LEU:HG	1.91	0.52
5:A:448:VAL:HG13	5:A:452:GLU:HB2	1.90	0.52
5:A:707:GLU:O	5:A:756:SER:N	2.41	0.52
5:A:849:VAL:CG1	5:A:872:TYR:HA	2.38	0.52
5:A:888:CYS:SG	5:A:924:VAL:HG13	2.49	0.52
5:A:1152:ARG:H	5:A:1202:GLN:HB3	1.74	0.52
1:F:127:LYS:HE3	1:F:232:TYR:CE2	2.45	0.52
1:F:411:GLU:CD	1:F:411:GLU:H	2.12	0.52
3:E:22:ASN:HD21	3:E:25:LEU:HG	1.72	0.52
4:C:453:THR:HA	4:C:1254:TYR:CA	2.38	0.52
4:C:719:ILE:O	4:C:739:LEU:N	2.31	0.52
4:C:862:LEU:N	4:B:443:ALA:CB	2.69	0.52
4:C:1023:CYS:O	4:C:1027:THR:HG23	2.08	0.52
4:C:1166:TRP:CE2	4:C:1176:PRO:HG2	2.45	0.52
4:B:433:ARG:HA	4:B:450:VAL:CB	2.39	0.52
4:B:562:THR:CG2	4:B:799:LYS:HE2	2.39	0.52
4:B:855:ASP:HA	4:B:994:MET:CE	2.39	0.52
4:B:867:THR:HG22	4:B:867:THR:O	2.09	0.52
4:B:906:TYR:N	4:B:907:PRO:HD2	2.24	0.52
5:A:832:PRO:HA	5:A:854:THR:CB	2.39	0.52
2:G:140:SER:O	2:G:144:SER:N	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:99:PRO:HG2	1:F:168:PRO:HG2	1.91	0.52
1:F:320:ASP:OD1	1:F:494:THR:HA	2.09	0.52
1:F:377:ARG:N	1:F:498:LEU:HG	2.25	0.52
3:E:224:TYR:HA	3:E:251:TRP:CZ2	2.44	0.52
4:C:450:VAL:O	4:C:1256:VAL:HA	2.09	0.52
4:B:574:ALA:HA	4:B:577:ILE:HG22	1.91	0.52
4:B:852:GLN:CA	4:B:996:GLN:H	2.21	0.52
4:B:924:THR:HG23	4:B:983:LEU:HD12	1.90	0.52
4:B:1046:ILE:HB	4:B:1200:ILE:HG12	1.90	0.52
4:B:1095:ARG:CG	4:B:1099:GLY:HA2	2.38	0.52
5:A:672:PHE:HZ	5:A:1072:MET:HG3	1.74	0.52
5:A:772:LEU:HD12	5:A:773:PRO:HD2	1.90	0.52
5:A:851:ILE:HG13	5:A:871:ASP:OD2	2.10	0.52
1:K:346:GLN:HA	1:K:360:ASN:HB3	1.92	0.52
1:K:379:VAL:CG1	1:K:447:SER:HB3	2.39	0.52
1:K:392:TRP:CD2	1:K:397:LYS:HE2	2.44	0.52
2:H:40:PRO:HB2	2:H:52:MET:HG3	1.92	0.52
2:G:26:TYR:C	2:G:26:TYR:CD2	2.83	0.52
1:F:516:ALA:HB1	1:F:621:LYS:CD	2.39	0.52
4:C:473:ASN:HA	4:C:506:PRO:HA	1.91	0.52
4:C:544:GLN:HA	4:C:592:ARG:CZ	2.39	0.52
4:C:1110:PHE:HB2	4:C:1139:ILE:CD1	2.37	0.52
4:B:904:ALA:O	4:B:907:PRO:HG2	2.09	0.52
5:A:241:MET:HG2	5:A:243:SER:H	1.74	0.52
5:A:721:GLN:O	5:A:725:ILE:N	2.34	0.52
5:A:850:ASP:HA	5:A:872:TYR:CB	2.39	0.52
5:A:1156:PHE:CE1	5:A:1199:ARG:HD3	2.45	0.52
5:A:1233:PRO:HG2	5:A:1238:TRP:CZ3	2.44	0.52
5:A:1242:GLU:HB2	5:A:1247:ILE:CG1	2.39	0.52
1:K:121:ASN:HB3	1:K:188:TRP:HE1	1.74	0.52
1:K:405:GLN:HG2	1:K:466:TYR:CD2	2.45	0.52
2:H:220:VAL:HG13	2:H:264:ILE:HA	1.91	0.52
2:G:5:LEU:HB2	2:G:306:TRP:CD2	2.44	0.52
2:G:10:GLN:CA	2:G:46:GLY:HA3	2.37	0.52
2:G:180:VAL:HG11	2:G:243:VAL:HG12	1.92	0.52
1:F:68:SER:HB3	1:F:97:ASP:C	2.30	0.52
1:F:143:TYR:N	1:F:143:TYR:CD1	2.78	0.52
1:F:337:ILE:CG2	1:F:363:GLY:HA2	2.39	0.52
3:E:164:VAL:N	3:E:270:LEU:O	2.32	0.52
4:C:307:HIS:CG	4:C:310:TRP:HB3	2.44	0.52
4:C:416:VAL:HG12	4:C:1217:PRO:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:417:SER:HB2	4:C:1215:SER:O	2.10	0.52
4:C:807:THR:CG2	4:C:886:LEU:HA	2.38	0.52
4:C:1159:ALA:HA	4:C:1162:LEU:HD22	1.92	0.52
5:A:48:ASN:HB2	5:A:184:ASP:OD2	2.10	0.52
5:A:79:PHE:O	5:A:83:GLU:HG3	2.10	0.52
5:A:175:MET:HA	5:A:175:MET:CE	2.40	0.52
5:A:1052:VAL:HG13	5:A:1066:GLU:H	1.74	0.52
5:A:1084:LYS:HD2	5:A:1086:GLU:CD	2.30	0.52
5:A:1227:ASP:C	5:A:1228:LEU:HD23	2.30	0.52
1:K:102:VAL:HG13	1:K:163:VAL:CG1	2.39	0.52
1:K:153:ARG:HD3	1:F:132:SER:O	2.10	0.52
1:K:402:ILE:HA	1:K:424:VAL:HA	1.92	0.52
2:H:223:TYR:HH	2:H:351:ASP:HB3	1.74	0.52
1:F:334:LEU:CD2	1:F:368:VAL:HA	2.33	0.52
1:F:566:VAL:N	1:F:567:PRO:CD	2.71	0.52
3:E:46:ILE:HG22	3:E:51:GLY:HA2	1.91	0.52
3:E:60:THR:HB	3:E:281:MET:HE3	1.91	0.52
3:E:233:THR:CB	3:E:236:THR:HA	2.40	0.52
3:E:270:LEU:HD12	3:E:270:LEU:O	2.10	0.52
4:C:282:ALA:CB	4:C:289:SER:HB2	2.39	0.52
4:C:636:LEU:N	4:C:637:PRO:CD	2.73	0.52
4:C:1094:ILE:O	4:C:1101:MET:HA	2.10	0.52
4:B:543:LEU:CB	4:B:592:ARG:HG2	2.40	0.52
4:B:657:VAL:CG2	4:B:671:GLN:HG2	2.36	0.52
5:A:80:ASP:HB2	5:A:84:ARG:CZ	2.40	0.52
5:A:147:LEU:N	5:A:147:LEU:HD23	2.25	0.52
5:A:242:VAL:CB	5:A:248:ILE:HA	2.39	0.52
5:A:533:TRP:CZ2	5:A:544:PRO:HB3	2.44	0.52
5:A:837:LEU:CD1	5:A:865:THR:HG21	2.40	0.52
5:A:1157:VAL:HG22	5:A:1166:ALA:HB2	1.92	0.52
1:K:98:GLU:CD	1:K:167:THR:HB	2.29	0.52
1:K:298:PRO:HA	1:K:301:ILE:CG1	2.30	0.52
1:F:370:LEU:HB3	1:F:452:TYR:CZ	2.45	0.52
1:F:471:THR:HG23	1:F:488:VAL:HG13	1.92	0.52
3:E:98:ALA:HB1	3:E:99:PRO:HD2	1.92	0.52
3:E:209:TYR:O	3:E:213:THR:HG23	2.09	0.52
4:C:261:GLY:HA3	4:C:313:ASN:H	1.73	0.52
4:C:490:TYR:HE2	4:C:901:TYR:HB2	1.74	0.52
4:B:253:PRO:HD3	4:B:979:LEU:HD11	1.92	0.52
4:B:1034:GLU:HB3	4:B:1037:LEU:CB	2.39	0.52
4:B:1186:SER:O	4:B:1221:ALA:HB3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:234:LEU:HD23	5:A:234:LEU:N	2.25	0.52
5:A:826:LEU:HD23	5:A:886:VAL:HG22	1.92	0.52
5:A:1044:ILE:C	5:A:1086:GLU:HA	2.29	0.52
5:A:1097:GLY:H	5:A:1119:VAL:HB	1.74	0.52
1:K:281:GLU:O	1:K:285:LEU:HG	2.09	0.52
2:I:44:VAL:CG1	2:I:61:LEU:HD21	2.40	0.52
2:G:54:CYS:HB3	2:G:73:CYS:SG	2.50	0.52
3:E:161:ILE:HD13	3:E:327:LEU:HD22	1.92	0.52
4:C:270:PRO:CG	4:C:297:PRO:HB3	2.40	0.52
4:B:673:ARG:HG3	4:B:677:ALA:HB3	1.91	0.52
4:B:825:MET:HA	4:B:825:MET:HE2	1.90	0.52
4:B:1106:GLY:O	4:B:1136:ARG:N	2.43	0.52
5:A:326:TRP:CZ3	5:A:330:PHE:HB2	2.44	0.52
1:K:100:LEU:N	1:K:100:LEU:HD23	2.25	0.52
1:K:361:LEU:HD21	1:K:469:LEU:HD22	1.92	0.52
2:I:14:LEU:HD22	2:I:45:CYS:SG	2.50	0.52
2:G:43:MET:O	2:G:50:VAL:N	2.34	0.52
2:G:224:ASP:CB	2:G:355:PRO:HG2	2.34	0.52
1:F:99:PRO:HD2	1:F:168:PRO:HD2	1.91	0.52
1:F:228:LEU:HA	1:F:231:ARG:HE	1.73	0.52
1:F:282:LYS:HE3	1:F:640:LEU:HB3	1.91	0.52
1:F:283:SER:HB2	1:F:640:LEU:CD1	2.40	0.52
1:F:385:LYS:O	1:F:443:ILE:HG13	2.10	0.52
3:E:92:LEU:H	3:E:116:ALA:HB2	1.75	0.52
3:E:159:GLY:O	3:E:273:MET:HB2	2.09	0.52
3:E:327:LEU:N	3:E:327:LEU:HD23	2.25	0.52
4:C:601:ASN:ND2	4:C:833:VAL:O	2.36	0.52
4:C:768:VAL:O	4:C:772:MET:HG3	2.09	0.52
4:C:860:PRO:HD2	4:B:439:MET:CB	2.40	0.52
4:C:1081:CYS:HA	4:C:1095:ARG:CD	2.38	0.52
4:B:407:TYR:CE2	4:B:431:VAL:HG23	2.45	0.52
5:A:66:LEU:CD2	5:A:121:GLY:HA2	2.39	0.52
5:A:393:PRO:HB2	5:A:740:SER:HB2	1.92	0.52
5:A:913:VAL:O	5:A:917:SER:N	2.43	0.52
5:A:1152:ARG:O	5:A:1201:VAL:N	2.34	0.52
1:K:55:THR:O	1:K:55:THR:HG22	2.09	0.52
1:K:101:VAL:O	1:K:165:VAL:HA	2.09	0.52
1:K:348:GLN:HA	1:K:357:TRP:O	2.09	0.52
1:K:375:PRO:HG2	1:K:498:LEU:HB2	1.92	0.52
1:K:504:THR:HG21	2:G:317:PRO:HG2	1.85	0.52
2:I:292:LEU:O	2:I:295:VAL:HG22	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:185:MET:HG2	2:G:223:TYR:HE1	1.75	0.52
2:G:263:PRO:HB2	2:G:267:LYS:HA	1.92	0.52
1:F:250:MET:HA	1:F:257:VAL:HG22	1.91	0.52
1:F:335:ARG:HG2	1:F:369:ASN:HB2	1.92	0.52
1:F:348:GLN:HG2	1:F:358:HIS:CG	2.45	0.52
1:F:397:LYS:HB3	1:F:472:PHE:HD2	1.75	0.52
3:E:334:ARG:CZ	3:E:337:THR:HG21	2.39	0.52
4:C:605:THR:HB	4:C:874:PRO:HA	1.91	0.52
4:C:1076:ILE:CG1	4:C:1109:ILE:HB	2.39	0.52
4:C:1112:LEU:HA	4:C:1139:ILE:CG2	2.40	0.52
4:C:1112:LEU:HG	4:C:1116:GLN:NE2	2.25	0.52
4:B:591:PHE:O	4:B:595:LEU:HG	2.09	0.52
4:B:755:LEU:HD21	4:B:757:PHE:CZ	2.45	0.52
5:A:735:GLY:HA3	5:A:762:SER:HB2	1.92	0.52
5:A:779:SER:O	5:A:782:VAL:HB	2.10	0.52
5:A:826:LEU:HG	5:A:886:VAL:HG13	1.91	0.52
5:A:1098:ILE:HA	5:A:1118:VAL:HA	1.92	0.52
1:K:397:LYS:HE3	2:H:279:ASN:HD21	1.74	0.51
1:K:469:LEU:HA	1:K:489:TRP:NE1	2.24	0.51
1:K:628:ALA:O	1:K:632:LYS:HG3	2.09	0.51
2:I:73:CYS:N	1:F:581:TYR:CG	2.62	0.51
2:I:100:LEU:HD22	2:I:159:LEU:HD13	1.92	0.51
1:F:143:TYR:HA	1:F:163:VAL:O	2.10	0.51
1:F:405:GLN:HB3	1:F:464:MET:HE3	1.92	0.51
1:F:505:VAL:CG2	1:F:510:VAL:HG21	2.40	0.51
3:E:325:ASN:N	3:E:325:ASN:HD22	2.08	0.51
3:E:385:ALA:HB3	3:E:386:ASN:ND2	2.25	0.51
4:C:1056:TRP:CE3	4:C:1061:PRO:HA	2.46	0.51
4:B:674:ARG:HD3	4:B:674:ARG:N	2.25	0.51
4:B:915:PHE:HA	4:B:918:LEU:HD12	1.92	0.51
5:A:159:SER:CB	5:A:164:LEU:HB2	2.40	0.51
5:A:201:SER:HB3	5:A:207:LEU:HD21	1.92	0.51
5:A:421:PRO:CB	5:A:699:ASP:HA	2.40	0.51
5:A:642:LYS:NZ	5:A:648:ASN:HD21	2.08	0.51
5:A:1242:GLU:HB2	5:A:1247:ILE:HD11	1.91	0.51
1:K:346:GLN:CG	1:K:360:ASN:HB3	2.40	0.51
1:K:378:PHE:HD2	1:K:495:MET:HG2	1.75	0.51
2:H:141:MET:CA	2:H:147:SER:HB2	2.40	0.51
1:F:248:GLN:HE21	1:F:248:GLN:CA	2.23	0.51
3:E:10:THR:HG23	3:E:123:ARG:O	2.10	0.51
3:E:59:PRO:HG3	3:E:393:ARG:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:334:ARG:O	3:E:338:GLU:HG2	2.10	0.51
4:C:221:THR:OG1	4:C:1267:ILE:HB	2.10	0.51
4:C:374:ARG:O	4:C:1259:ARG:HD3	2.09	0.51
4:C:599:LEU:HD21	4:C:819:LEU:HD22	1.93	0.51
4:C:601:ASN:N	4:C:832:GLN:HG2	2.22	0.51
4:C:811:LEU:HA	4:C:815:ALA:CB	2.40	0.51
4:C:942:GLN:CB	4:C:995:THR:HG21	2.40	0.51
4:C:1062:PRO:HG2	4:C:1065:LEU:HD12	1.92	0.51
4:C:1115:TRP:HA	4:C:1122:PHE:CD2	2.44	0.51
4:B:847:VAL:HG22	4:B:1001:TYR:HB2	1.91	0.51
4:B:852:GLN:C	4:B:996:GLN:HG2	2.30	0.51
4:B:905:ILE:HG23	4:B:909:TYR:CE1	2.45	0.51
4:B:1110:PHE:HB2	4:B:1137:ILE:CG2	2.41	0.51
4:B:1182:VAL:HG23	4:B:1183:PRO:HD2	1.92	0.51
4:B:1231:ARG:HG2	4:B:1250:VAL:HG13	1.92	0.51
5:A:463:GLY:HA2	5:A:466:GLN:NE2	2.26	0.51
5:A:562:LEU:N	5:A:562:LEU:HD23	2.25	0.51
5:A:706:ILE:HA	5:A:757:ARG:HG2	1.92	0.51
5:A:985:SER:O	5:A:986:TYR:HB3	2.09	0.51
5:A:1172:GLN:O	5:A:1184:ASN:N	2.29	0.51
1:K:140:LEU:HB3	1:K:170:ARG:HD3	1.90	0.51
1:K:510:VAL:HG13	2:G:312:ARG:CZ	2.29	0.51
2:I:7:ASN:HB3	2:I:9:HIS:CD2	2.45	0.51
2:I:331:ALA:N	2:I:332:PRO:CD	2.73	0.51
2:H:174:ILE:O	2:H:178:ASP:N	2.43	0.51
2:H:244:THR:HG23	2:H:247:ARG:H	1.76	0.51
2:G:136:VAL:O	2:G:136:VAL:HG12	2.09	0.51
2:G:185:MET:SD	2:G:191:ALA:HB2	2.51	0.51
2:G:198:GLU:C	2:G:202:ARG:H	2.13	0.51
1:F:47:PRO:O	1:F:65:ARG:NH1	2.43	0.51
1:F:459:LYS:HE2	1:F:462:PRO:HA	1.92	0.51
3:E:178:LEU:HD22	4:B:481:TRP:CZ2	2.34	0.51
4:C:400:GLU:HA	4:C:403:TYR:CD2	2.45	0.51
4:C:434:PHE:H	4:C:450:VAL:HA	1.74	0.51
4:C:646:VAL:HG21	4:C:684:TRP:CD1	2.45	0.51
4:B:746:GLN:HA	5:A:154:SER:HB2	1.91	0.51
4:B:851:ARG:NH2	4:B:989:SER:HB2	2.25	0.51
5:A:48:ASN:HB3	5:A:51:THR:OG1	2.10	0.51
5:A:517:ALA:N	5:A:550:PHE:O	2.44	0.51
5:A:554:VAL:CG1	5:A:557:GLY:HA3	2.40	0.51
5:A:647:ASN:CG	5:A:684:LEU:HB2	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:813:PHE:HD1	5:A:993:LEU:HD11	1.76	0.51
5:A:1063:PHE:CD1	5:A:1063:PHE:C	2.84	0.51
5:A:1101:MET:O	5:A:1114:LEU:N	2.43	0.51
1:K:244:ASN:HB3	1:K:247:ILE:HB	1.91	0.51
1:K:324:ARG:NH2	1:F:436:SER:CA	2.73	0.51
2:I:94:HIS:HA	2:I:97:ARG:HD2	1.92	0.51
2:G:44:VAL:HG22	2:G:49:VAL:HG22	1.92	0.51
2:G:179:LEU:N	2:G:179:LEU:HD23	2.26	0.51
1:F:371:ASP:O	1:F:372:GLN:HB2	2.10	0.51
3:E:99:PRO:O	3:E:101:LEU:HG	2.10	0.51
3:E:142:ARG:O	3:E:145:GLN:HG2	2.10	0.51
4:C:224:ILE:CG2	4:C:1270:VAL:HG22	2.40	0.51
4:B:510:SER:OG	4:B:513:GLU:HG3	2.10	0.51
4:B:591:PHE:CZ	4:B:595:LEU:HD11	2.45	0.51
4:B:775:LEU:HD12	4:B:775:LEU:O	2.11	0.51
4:B:981:ASP:OD2	4:B:981:ASP:N	2.43	0.51
5:A:61:ARG:HB2	5:A:64:GLN:HE22	1.75	0.51
5:A:713:ASN:N	5:A:713:ASN:HD22	2.07	0.51
5:A:934:ARG:NH1	5:A:1209:TYR:O	2.44	0.51
5:A:936:ILE:CG2	5:A:1008:ILE:HG13	2.34	0.51
5:A:981:TRP:CD1	5:A:1118:VAL:HG23	2.43	0.51
1:K:281:GLU:HG3	1:F:294:THR:HG21	1.93	0.51
1:K:398:LYS:HA	1:K:429:GLN:HA	1.93	0.51
2:G:17:ASN:C	2:G:23:VAL:HG22	2.31	0.51
1:F:68:SER:HB2	1:F:98:GLU:O	2.10	0.51
1:F:520:GLY:O	1:F:613:GLN:NE2	2.43	0.51
3:E:158:PHE:HZ	3:E:401:GLN:HA	1.74	0.51
4:C:861:ALA:N	4:B:439:MET:O	2.44	0.51
4:C:1003:GLN:N	4:C:1007:ARG:O	2.38	0.51
4:C:1046:ILE:HD12	4:C:1200:ILE:HD11	1.92	0.51
4:C:1157:ALA:O	4:C:1196:VAL:N	2.34	0.51
4:B:340:ASN:HB3	4:B:343:THR:OG1	2.11	0.51
4:B:600:TYR:CD2	4:B:830:PRO:HA	2.45	0.51
4:B:955:LEU:HD12	4:B:955:LEU:O	2.11	0.51
5:A:585:HIS:HA	5:A:588:LEU:CG	2.38	0.51
5:A:716:PHE:CD1	5:A:781:GLU:HA	2.46	0.51
5:A:837:LEU:HA	5:A:840:ILE:HG13	1.92	0.51
5:A:845:PRO:HB3	5:A:864:ARG:HH12	1.74	0.51
5:A:1145:ILE:N	5:A:1181:LEU:O	2.44	0.51
1:K:57:VAL:HG21	1:K:62:ALA:C	2.30	0.51
1:K:298:PRO:CG	1:K:632:LYS:HD2	2.37	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:368:VAL:HB	1:K:468:LEU:CB	2.24	0.51
1:K:611:ILE:HD12	1:K:612:THR:N	2.24	0.51
2:I:187:ASP:OD1	2:I:188:PRO:CD	2.49	0.51
2:H:132:ASN:HA	2:H:360:ASP:OD1	2.10	0.51
2:G:55:LEU:HD21	2:G:302:VAL:HG22	1.93	0.51
1:F:290:MET:HG2	1:F:635:LEU:HB3	1.92	0.51
3:E:258:ASN:HB3	4:C:854:ARG:CZ	2.31	0.51
4:C:474:ILE:CG2	4:C:507:TYR:HB2	2.40	0.51
4:C:1249:GLU:CD	4:C:1249:GLU:H	2.13	0.51
4:B:432:GLY:O	4:B:450:VAL:HG23	2.11	0.51
4:B:490:TYR:CG	4:B:905:ILE:HD12	2.45	0.51
4:B:686:ARG:HA	4:B:689:MET:HG3	1.93	0.51
4:B:1053:THR:HB	4:B:1192:SER:HB3	1.91	0.51
5:A:6:GLY:N	5:A:336:SER:O	2.43	0.51
5:A:89:LYS:HB3	5:A:123:PHE:HE2	1.74	0.51
5:A:641:ILE:O	5:A:652:PHE:HB2	2.10	0.51
5:A:1081:ASP:N	5:A:1086:GLU:O	2.43	0.51
5:A:1136:PHE:CD2	5:A:1228:LEU:HB3	2.46	0.51
1:K:346:GLN:CA	1:K:360:ASN:HB3	2.41	0.51
1:K:403:VAL:O	1:K:422:ALA:HA	2.10	0.51
1:K:622:ASN:HA	1:K:625:ILE:HD12	1.92	0.51
2:G:234:LYS:HB3	2:G:238:TYR:CD2	2.45	0.51
2:G:238:TYR:HH	2:G:354:TYR:HH	1.52	0.51
3:E:86:TRP:HE3	4:B:859:GLN:NE2	1.93	0.51
4:C:641:ASP:OD2	4:C:643:CYS:N	2.44	0.51
4:C:709:ILE:O	4:C:713:TRP:N	2.44	0.51
4:C:1075:HIS:O	4:C:1109:ILE:N	2.39	0.51
4:B:837:ARG:H	5:A:238:LEU:HD13	1.73	0.51
5:A:760:PRO:HG3	5:A:996:LEU:HD12	1.93	0.51
2:H:5:LEU:HG	2:H:306:TRP:CE3	2.46	0.51
2:H:101:SER:O	2:H:105:GLN:HG3	2.11	0.51
2:H:103:VAL:HG21	2:H:163:LEU:CD2	2.41	0.51
2:H:179:LEU:CB	2:H:363:ILE:HB	2.41	0.51
2:H:200:ASP:HA	2:H:203:GLN:OE1	2.11	0.51
2:H:260:ALA:HB1	2:H:271:VAL:HG22	1.91	0.51
1:F:378:PHE:HB3	1:F:493:LEU:HD11	1.92	0.51
3:E:79:PRO:HG3	3:E:101:LEU:HD13	1.93	0.51
4:C:300:ALA:O	4:C:1212:THR:HA	2.11	0.51
4:C:540:SER:HB2	4:C:592:ARG:HB2	1.92	0.51
4:C:580:LYS:HE2	4:C:624:GLU:HG2	1.92	0.51
4:C:1035:TYR:O	4:C:1039:GLY:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:267:LYS:HD2	4:B:310:TRP:CG	2.46	0.51
4:B:1116:GLN:CB	4:B:1172:PRO:HA	2.31	0.51
5:A:1243:SER:N	5:A:1283:ASP:O	2.43	0.51
1:K:55:THR:CG2	1:K:147:TYR:HB3	2.16	0.51
1:K:298:PRO:HG2	1:K:632:LYS:CD	2.41	0.51
1:K:450:TYR:CG	2:H:62:GLN:OE1	2.54	0.51
2:I:196:ARG:CG	2:I:355:PRO:HB3	2.34	0.51
2:H:68:LEU:HD21	2:H:71:HIS:CE1	2.46	0.51
2:G:204:THR:HG23	2:G:267:LYS:CD	2.40	0.51
3:E:3:ARG:CA	3:E:300:GLN:HB2	2.29	0.51
3:E:165:ARG:HG2	3:E:166:VAL:N	2.25	0.51
3:E:209:TYR:HA	3:E:212:MET:SD	2.51	0.51
4:C:622:SER:O	4:C:626:LEU:HG	2.11	0.51
4:C:644:ALA:N	4:C:645:PRO:CD	2.74	0.51
4:C:690:ASN:HB3	4:C:693:LEU:CG	2.40	0.51
4:C:697:ILE:O	4:C:700:PRO:HD3	2.11	0.51
4:C:708:ILE:HG23	4:C:712:TYR:CD1	2.46	0.51
4:C:1233:ASN:HA	4:C:1236:THR:OG1	2.11	0.51
4:B:333:HIS:HA	4:B:336:LYS:HG2	1.92	0.51
4:B:474:ILE:O	4:B:505:MET:HB2	2.11	0.51
5:A:12:SER:CB	5:A:382:SER:HB3	2.41	0.51
5:A:160:HIS:N	5:A:163:VAL:O	2.44	0.51
5:A:327:LEU:O	5:A:331:VAL:HG23	2.10	0.51
5:A:511:SER:HB2	5:A:571:TYR:CA	2.34	0.51
5:A:1171:PHE:N	5:A:1171:PHE:CD1	2.79	0.51
1:K:375:PRO:CB	1:K:498:LEU:HB2	2.40	0.51
1:K:650:LYS:CD	1:F:299:GLU:HB2	2.40	0.51
1:K:669:SER:O	1:K:673:PRO:N	2.44	0.51
2:I:72:ARG:CA	1:F:580:GLY:CA	2.85	0.51
2:I:211:ASP:HB2	2:I:213:ARG:CZ	2.41	0.51
2:I:220:VAL:O	2:I:358:ILE:HA	2.11	0.51
2:H:68:LEU:HD12	2:H:69:PRO:HD2	1.91	0.51
2:G:132:ASN:HD22	2:G:132:ASN:C	2.13	0.51
1:F:402:ILE:N	1:F:469:LEU:O	2.39	0.51
1:F:404:PHE:CB	1:F:413:TRP:HH2	2.24	0.51
4:C:293:GLN:O	4:C:411:MET:HG3	2.11	0.51
4:C:451:PHE:CD1	4:C:1256:VAL:HG13	2.46	0.51
4:C:776:VAL:HG22	4:C:776:VAL:O	2.11	0.51
4:C:949:LEU:HB3	4:C:952:ILE:CD1	2.41	0.51
4:C:1081:CYS:HA	4:C:1095:ARG:CG	2.40	0.51
4:B:251:ASP:HB3	4:B:979:LEU:HD22	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:644:ALA:HB3	4:B:645:PRO:HD3	1.93	0.51
5:A:7:VAL:HG12	5:A:9:LEU:HD21	1.91	0.51
5:A:13:LEU:HB3	5:A:311:GLY:C	2.31	0.51
5:A:223:HIS:HD2	5:A:282:CYS:C	2.14	0.51
5:A:832:PRO:CA	5:A:854:THR:HA	2.39	0.51
5:A:878:ILE:HB	5:A:916:LYS:CB	2.41	0.51
5:A:951:PHE:N	5:A:956:ARG:O	2.36	0.51
5:A:971:ARG:NH2	5:A:1027:PRO:HA	2.26	0.51
5:A:1079:GLN:N	5:A:1079:GLN:NE2	2.59	0.51
5:A:1080:PHE:HB2	5:A:1087:TRP:NE1	2.25	0.51
5:A:1081:ASP:HB3	5:A:1086:GLU:N	2.26	0.51
1:K:485:GLN:OE1	1:F:436:SER:CA	2.59	0.50
1:K:645:LYS:O	1:K:648:VAL:HG22	2.12	0.50
2:H:364:LEU:HD12	2:H:364:LEU:C	2.31	0.50
2:G:20:GLU:HG2	2:G:22:ARG:HD2	1.92	0.50
2:G:26:TYR:HB2	2:G:32:TRP:CE2	2.47	0.50
2:G:224:ASP:N	2:G:355:PRO:O	2.33	0.50
3:E:165:ARG:HB2	3:E:269:SER:CB	2.41	0.50
3:E:225:VAL:HG12	3:E:342:ARG:HE	1.76	0.50
3:E:305:ASP:HB3	3:E:308:SER:OG	2.11	0.50
4:C:504:LEU:N	4:C:1263:GLU:O	2.43	0.50
4:C:634:LEU:HD23	4:C:883:THR:CG2	2.36	0.50
4:C:772:MET:O	4:C:776:VAL:HG12	2.12	0.50
4:C:1085:PHE:CD2	4:B:285:PHE:CB	2.95	0.50
1:K:46:VAL:C	1:K:148:VAL:HG13	2.32	0.50
1:K:50:ALA:CB	1:K:57:VAL:HG22	2.41	0.50
1:K:566:VAL:HG23	1:K:567:PRO:CD	2.40	0.50
1:K:661:THR:HA	1:K:664:PHE:CD2	2.46	0.50
2:I:299:VAL:HA	2:I:320:MET:SD	2.51	0.50
2:H:224:ASP:HA	2:H:357:MET:CE	2.41	0.50
2:G:48:ALA:HB1	2:G:57:VAL:HG11	1.93	0.50
2:G:248:ASP:HB3	2:G:347:THR:CG2	2.41	0.50
2:G:292:LEU:HD13	2:G:327:THR:HG22	1.91	0.50
1:F:124:PHE:CG	1:F:188:TRP:HB2	2.46	0.50
1:F:376:MET:HG2	1:F:495:MET:HE3	1.92	0.50
3:E:107:ALA:HB3	3:E:112:LEU:CD2	2.41	0.50
3:E:231:GLN:HA	3:E:259:HIS:CG	2.45	0.50
4:C:356:ALA:HB1	4:C:965:PHE:CE1	2.46	0.50
4:C:427:VAL:HG22	4:C:1235:LEU:HA	1.92	0.50
4:C:614:PRO:HB2	4:C:618:GLY:CA	2.41	0.50
4:C:1151:TYR:C	4:C:1151:TYR:HD1	2.13	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1158:ASN:ND2	4:C:1160:TRP:HB3	2.25	0.50
4:B:487:ALA:HA	4:B:909:TYR:CE2	2.47	0.50
4:B:657:VAL:HG22	4:B:671:GLN:CG	2.38	0.50
4:B:1093:MET:HB3	4:B:1102:VAL:N	2.26	0.50
5:A:323:THR:HG23	5:A:326:TRP:CB	2.41	0.50
5:A:393:PRO:C	5:A:740:SER:HB2	2.31	0.50
5:A:403:ASP:HB2	5:A:774:LEU:HB2	1.93	0.50
5:A:417:LEU:CD2	5:A:711:ILE:HG13	2.40	0.50
5:A:573:PHE:CE2	5:A:575:TYR:HB2	2.46	0.50
5:A:970:CYS:HB3	5:A:979:ILE:HD11	1.93	0.50
1:K:136:LYS:HG2	1:K:139:ASP:CG	2.32	0.50
1:K:392:TRP:CZ2	1:K:397:LYS:HG3	2.47	0.50
1:K:506:LYS:HG3	2:G:313:TYR:CA	2.38	0.50
2:H:177:SER:HB2	2:H:179:LEU:HG	1.93	0.50
2:G:100:LEU:O	2:G:100:LEU:HD12	2.10	0.50
2:G:257:TYR:CD1	2:G:344:SER:HA	2.47	0.50
1:F:192:LEU:O	1:F:196:GLN:HG3	2.10	0.50
1:F:503:VAL:O	1:F:509:VAL:HA	2.11	0.50
3:E:96:TRP:CE3	3:E:104:LEU:HG	2.46	0.50
3:E:106:VAL:HG21	4:B:944:PRO:CA	2.40	0.50
4:C:638:LEU:N	4:C:638:LEU:HD23	2.26	0.50
4:C:1041:ALA:N	4:C:1144:TYR:O	2.34	0.50
4:C:1080:ASP:O	4:C:1095:ARG:NH1	2.44	0.50
4:C:1111:PRO:HG2	4:C:1114:LEU:CG	2.34	0.50
4:C:1170:ILE:HG12	4:C:1175:ILE:CG1	2.41	0.50
5:A:593:GLY:HA2	5:A:596:GLU:CD	2.32	0.50
5:A:820:TYR:HB2	5:A:823:ASP:OD2	2.12	0.50
5:A:1033:ASN:CB	5:A:1038:GLN:HB3	2.41	0.50
5:A:1035:ILE:HG23	5:A:1120:ASP:HB2	1.92	0.50
5:A:1054:ASN:H	5:A:1104:LEU:HD12	1.77	0.50
5:A:1234:ASP:CG	5:A:1238:TRP:HE1	2.15	0.50
1:K:300:ILE:O	1:K:515:PRO:HG2	2.10	0.50
1:K:331:ALA:HB1	1:K:333:TRP:CD1	2.46	0.50
1:K:485:GLN:OE1	1:F:436:SER:HA	2.11	0.50
2:G:26:TYR:CD2	2:G:42:MET:HG3	2.47	0.50
1:F:346:GLN:HG2	1:F:360:ASN:OD1	2.10	0.50
3:E:50:ARG:NH1	3:E:50:ARG:CB	2.62	0.50
3:E:161:ILE:HA	3:E:273:MET:HA	1.94	0.50
3:E:177:GLN:HA	4:B:497:TYR:CD2	2.03	0.50
4:C:307:HIS:HB3	4:C:310:TRP:HB3	1.92	0.50
4:C:1154:ARG:HA	4:C:1192:SER:CA	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:574:ALA:O	4:B:577:ILE:HG22	2.11	0.50
5:A:621:ARG:N	5:A:622:PRO:CD	2.75	0.50
5:A:644:PHE:O	5:A:644:PHE:CG	2.64	0.50
5:A:1057:PHE:N	5:A:1060:ALA:O	2.40	0.50
5:A:1238:TRP:CE3	5:A:1286:LEU:HB3	2.47	0.50
1:K:236:ALA:O	1:K:240:LEU:HG	2.10	0.50
1:K:341:MET:N	1:K:341:MET:SD	2.84	0.50
1:K:524:PRO:CG	1:F:377:ARG:NH2	2.75	0.50
1:K:661:THR:HG23	1:K:664:PHE:CE2	2.47	0.50
1:F:108:ILE:HG12	1:F:141:LEU:HD11	1.94	0.50
1:F:124:PHE:HB2	1:F:188:TRP:CB	2.42	0.50
3:E:48:LEU:HB3	3:E:248:ALA:HB1	1.93	0.50
3:E:177:GLN:CA	4:B:497:TYR:CD2	2.79	0.50
4:C:336:LYS:HA	4:C:340:ASN:HD22	1.75	0.50
4:C:352:LEU:HB3	4:C:955:LEU:N	2.27	0.50
4:C:430:ARG:HD3	4:C:451:PHE:CZ	2.47	0.50
4:C:815:ALA:HB3	4:C:816:PRO:HD3	1.92	0.50
4:B:836:VAL:CG2	4:B:836:VAL:O	2.60	0.50
5:A:102:PRO:HB2	5:A:105:ASN:OD1	2.10	0.50
5:A:621:ARG:HB2	5:A:622:PRO:HD3	1.93	0.50
5:A:743:ILE:HG13	5:A:752:LEU:CD1	2.35	0.50
5:A:828:LEU:HD13	5:A:872:TYR:CE1	2.47	0.50
5:A:919:ALA:HB3	5:A:922:VAL:CG2	2.42	0.50
5:A:989:ARG:O	5:A:992:ARG:HG2	2.12	0.50
1:K:523:THR:N	1:K:526:SER:HB2	2.25	0.50
2:H:79:HIS:O	2:H:83:VAL:N	2.44	0.50
2:G:79:HIS:HE1	2:G:83:VAL:HG23	1.76	0.50
2:G:184:MET:HA	2:G:261:THR:CA	2.34	0.50
2:G:234:LYS:HB3	2:G:238:TYR:HE2	1.75	0.50
2:G:236:ARG:O	2:G:240:LYS:HG3	2.11	0.50
1:F:301:ILE:HD12	1:F:624:TRP:HZ2	1.76	0.50
1:F:301:ILE:HD12	1:F:624:TRP:CZ2	2.46	0.50
4:C:1041:ALA:HB2	4:C:1146:TYR:CD2	2.46	0.50
4:B:983:LEU:HG	4:B:984:LEU:HG	1.94	0.50
5:A:186:PRO:HG2	5:A:188:PHE:CE1	2.47	0.50
5:A:491:LYS:O	5:A:495:GLN:HG2	2.12	0.50
5:A:759:SER:HB2	5:A:760:PRO:HD2	1.94	0.50
5:A:827:ASP:HA	5:A:887:THR:OG1	2.11	0.50
5:A:1062:ALA:HB1	5:A:1073:ILE:CG1	2.41	0.50
1:K:272:PRO:CG	1:K:278:PRO:HD3	2.42	0.50
1:K:297:GLU:N	1:K:298:PRO:HD3	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:390:THR:O	2:H:277:THR:CA	2.60	0.50
2:I:199:GLY:H	2:I:202:ARG:HH12	1.59	0.50
2:G:200:ASP:HA	2:G:203:GLN:HB2	1.92	0.50
3:E:47:SER:HB2	3:E:50:ARG:HH12	1.77	0.50
4:C:219:HIS:CE1	4:C:233:VAL:HG21	2.47	0.50
4:C:283:TYR:N	4:C:290:TYR:O	2.40	0.50
4:C:719:ILE:HG23	4:C:739:LEU:HB3	1.93	0.50
4:B:261:GLY:H	4:B:313:ASN:H	1.59	0.50
4:B:935:VAL:O	4:B:939:SER:N	2.44	0.50
5:A:252:THR:HA	5:A:255:MET:CE	2.41	0.50
5:A:289:ALA:HB2	5:A:348:GLU:OE2	2.11	0.50
5:A:431:VAL:HA	5:A:477:LYS:O	2.12	0.50
5:A:533:TRP:HZ2	5:A:544:PRO:HB3	1.76	0.50
5:A:709:ILE:HG12	5:A:730:LEU:HD12	1.94	0.50
5:A:1057:PHE:HE1	5:A:1097:GLY:HA3	1.77	0.50
1:K:200:PRO:HG2	1:K:661:THR:CG2	2.42	0.50
1:K:304:LEU:HA	1:K:514:VAL:CG1	2.42	0.50
1:K:409:PRO:HD2	1:K:412:LEU:HB2	1.92	0.50
2:H:20:GLU:CG	2:H:22:ARG:HD2	2.42	0.50
2:G:186:ARG:HA	2:G:249:PHE:CZ	2.47	0.50
1:F:266:ALA:O	1:F:270:LEU:HG	2.12	0.50
4:C:375:HIS:HA	4:C:1259:ARG:HB3	1.93	0.50
4:C:542:LEU:O	4:C:546:ILE:N	2.44	0.50
4:C:817:VAL:O	4:C:821:VAL:HG23	2.12	0.50
4:C:948:TYR:CD2	4:C:948:TYR:N	2.78	0.50
4:B:837:ARG:HB3	5:A:238:LEU:HB3	1.93	0.50
4:B:999:ILE:O	4:B:1011:VAL:N	2.45	0.50
5:A:9:LEU:HD22	5:A:314:LEU:CD2	2.41	0.50
5:A:187:LEU:HD12	5:A:191:ASP:CB	2.38	0.50
5:A:200:TYR:HA	5:A:231:HIS:O	2.11	0.50
5:A:241:MET:N	5:A:249:ILE:O	2.42	0.50
5:A:637:SER:C	5:A:664:LEU:HD11	2.31	0.50
5:A:903:PHE:CE1	5:A:927:ASN:HB2	2.47	0.50
5:A:1167:ASN:N	5:A:1270:TRP:HA	2.26	0.50
5:A:1271:SER:HB3	5:A:1274:ILE:HG13	1.94	0.50
1:K:574:ILE:HD13	1:K:577:LEU:HD12	1.94	0.50
2:H:339:ALA:HA	2:H:342:MET:HB2	1.94	0.50
2:H:340:LEU:N	2:H:340:LEU:CD1	2.75	0.50
1:F:434:ASP:HA	1:F:441:SER:HA	1.93	0.50
3:E:158:PHE:HE2	3:E:275:THR:HA	1.77	0.50
4:C:301:VAL:HG22	4:C:1209:LEU:CD2	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:508:ARG:HH22	4:C:726:VAL:HA	1.76	0.50
4:C:699:ALA:HB1	4:C:702:LEU:CD1	2.40	0.50
4:B:348:GLY:CA	4:B:1174:SER:HB2	2.41	0.50
5:A:76:PRO:HD2	5:A:82:TRP:CD1	2.46	0.50
5:A:171:LYS:HD3	5:A:172:TYR:CZ	2.47	0.50
5:A:310:ASN:HB2	5:A:312:TYR:CD1	2.47	0.50
5:A:472:PHE:HD2	5:A:646:THR:HG23	1.76	0.50
5:A:1080:PHE:CE1	5:A:1085:GLY:HA2	2.47	0.50
5:A:1156:PHE:HZ	5:A:1201:VAL:CG1	2.25	0.50
5:A:1258:PRO:HB2	5:A:1261:TRP:CB	2.39	0.50
2:G:5:LEU:HD13	2:G:6:PRO:HD2	1.93	0.49
1:F:228:LEU:H	1:F:228:LEU:CD2	2.25	0.49
1:F:298:PRO:HA	1:F:301:ILE:CG1	2.42	0.49
1:F:309:ALA:HB3	1:F:310:PRO:HD3	1.92	0.49
1:F:370:LEU:HB2	1:F:466:TYR:HB2	1.93	0.49
3:E:137:PRO:HD2	3:E:138:ARG:NH2	2.27	0.49
3:E:230:GLN:O	3:E:259:HIS:HB2	2.12	0.49
3:E:349:MET:HE1	3:E:354:GLN:HB2	1.94	0.49
3:E:391:MET:SD	3:E:391:MET:C	2.90	0.49
4:C:514:ARG:HH12	4:C:729:SER:HA	1.77	0.49
4:C:551:ILE:HA	4:C:888:SER:O	2.12	0.49
4:B:678:PHE:HB3	4:B:683:THR:OG1	2.12	0.49
5:A:306:LEU:HD23	5:A:344:LEU:HB3	1.94	0.49
5:A:712:GLU:HA	5:A:751:VAL:HA	1.93	0.49
1:K:101:VAL:HB	1:K:166:ILE:CG2	2.42	0.49
1:K:254:GLU:HB3	1:K:256:THR:HG23	1.94	0.49
1:K:338:PRO:HB3	2:G:333:ILE:CD1	2.42	0.49
1:K:650:LYS:HE2	1:F:300:ILE:CB	2.41	0.49
1:F:346:GLN:HA	1:F:360:ASN:CA	2.32	0.49
3:E:108:PRO:HD2	3:E:111:VAL:CB	2.42	0.49
3:E:186:THR:HB	3:E:250:VAL:HG11	1.94	0.49
4:C:308:THR:HG1	4:C:321:SER:HA	1.77	0.49
4:C:309:ARG:HB3	4:C:312:SER:OG	2.12	0.49
4:C:935:VAL:CG1	4:C:993:ARG:HA	2.42	0.49
4:C:1121:TYR:CE2	4:B:414:PRO:CB	2.91	0.49
4:C:1136:ARG:HH22	4:C:1200:ILE:HD13	1.76	0.49
4:B:515:GLN:O	4:B:519:ILE:HG13	2.11	0.49
5:A:512:VAL:HG11	5:A:533:TRP:CH2	2.40	0.49
5:A:615:LYS:HE2	5:A:617:ASN:HB2	1.93	0.49
5:A:704:THR:HA	5:A:759:SER:HA	1.94	0.49
5:A:911:ILE:HD13	5:A:914:LEU:CD1	2.42	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1079:GLN:O	5:A:1087:TRP:HA	2.11	0.49
1:K:537:ARG:HG2	1:K:537:ARG:NH1	2.27	0.49
2:I:199:GLY:H	2:I:202:ARG:NH1	2.10	0.49
2:I:337:PRO:HB2	2:I:340:LEU:HD13	1.94	0.49
2:H:243:VAL:HG22	2:H:349:PHE:CD1	2.47	0.49
4:C:674:ARG:H	4:B:492:THR:HG21	1.76	0.49
4:C:708:ILE:HG23	4:C:712:TYR:HD1	1.75	0.49
4:C:892:PRO:HB2	4:C:895:LEU:CB	2.43	0.49
4:B:850:THR:HG23	4:B:850:THR:O	2.12	0.49
4:B:1111:PRO:HG2	4:B:1114:LEU:HB3	1.91	0.49
5:A:209:ARG:HA	5:A:212:TRP:CD1	2.47	0.49
5:A:486:ASP:O	5:A:489:VAL:HG22	2.11	0.49
5:A:940:LEU:HD11	5:A:942:ILE:HG12	1.94	0.49
5:A:990:TRP:CE2	5:A:991:THR:HG22	2.47	0.49
5:A:1192:LYS:HA	5:A:1218:ASN:O	2.12	0.49
1:K:328:ILE:HD13	1:K:336:MET:HB3	1.94	0.49
2:I:73:CYS:CA	1:F:581:TYR:CB	2.86	0.49
2:I:339:ALA:CA	2:I:342:MET:HG2	2.39	0.49
2:G:252:PHE:CE1	2:G:275:MET:HB2	2.47	0.49
2:G:258:SER:HB2	2:G:343:PHE:CE1	2.47	0.49
3:E:22:ASN:HD22	3:E:25:LEU:H	1.58	0.49
4:C:378:PHE:CZ	4:C:448:VAL:HG21	2.47	0.49
4:C:1079:ARG:HG2	4:C:1079:ARG:HH11	1.77	0.49
4:B:454:SER:O	4:B:1255:ASN:ND2	2.45	0.49
4:B:472:MET:C	4:B:506:PRO:HA	2.33	0.49
4:B:583:PRO:HA	4:B:880:ARG:NH1	2.26	0.49
5:A:12:SER:HB2	5:A:382:SER:N	2.27	0.49
5:A:511:SER:OG	5:A:572:GLN:HG3	2.12	0.49
5:A:861:TRP:HA	5:A:861:TRP:CE3	2.47	0.49
5:A:888:CYS:SG	5:A:888:CYS:O	2.70	0.49
5:A:1063:PHE:CD2	5:A:1073:ILE:HD12	2.47	0.49
5:A:1238:TRP:CE2	5:A:1288:PRO:HB3	2.46	0.49
1:K:68:SER:HA	1:K:71:ILE:HB	1.94	0.49
2:I:95:TRP:CZ3	2:I:284:PRO:HD3	2.47	0.49
2:I:132:ASN:HA	2:I:360:ASP:OD1	2.12	0.49
2:I:312:ARG:HH22	1:F:507:GLY:C	2.15	0.49
2:H:281:LYS:HB3	2:H:283:TYR:CE1	2.48	0.49
3:E:148:SER:HB2	3:E:319:TRP:HH2	1.76	0.49
3:E:163:TYR:CZ	3:E:269:SER:HB2	2.47	0.49
3:E:185:HIS:CE1	4:B:500:SER:HB3	2.35	0.49
3:E:340:CYS:CB	3:E:354:GLN:HG3	2.33	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:418:LYS:N	4:C:1217:PRO:HA	2.28	0.49
4:C:591:PHE:CZ	4:C:595:LEU:HD11	2.47	0.49
4:C:1087:MET:N	4:C:1090:ALA:HB3	2.26	0.49
4:C:1138:ARG:NH2	4:C:1202:THR:HG21	2.27	0.49
4:C:1229:VAL:HG13	4:C:1236:THR:OG1	2.12	0.49
4:B:270:PRO:HG3	4:B:297:PRO:HB3	1.94	0.49
4:B:340:ASN:N	4:B:340:ASN:ND2	2.56	0.49
4:B:509:ILE:HD11	4:B:918:LEU:HB3	1.95	0.49
4:B:852:GLN:HA	4:B:996:GLN:N	2.26	0.49
4:B:991:ASP:O	4:B:995:THR:HG23	2.13	0.49
5:A:69:ASP:HB3	5:A:72:LEU:HG	1.95	0.49
5:A:221:LEU:HB2	5:A:283:TYR:HB3	1.95	0.49
5:A:744:TYR:N	5:A:751:VAL:O	2.39	0.49
1:K:401:PHE:O	1:K:424:VAL:HA	2.12	0.49
2:G:26:TYR:HA	2:G:32:TRP:HA	1.93	0.49
1:F:334:LEU:HD21	1:F:368:VAL:HG22	1.93	0.49
1:F:335:ARG:HG3	1:F:369:ASN:HD22	1.77	0.49
1:F:347:ILE:HD12	1:F:419:ILE:HD13	1.95	0.49
1:F:376:MET:HA	1:F:498:LEU:H	1.77	0.49
3:E:46:ILE:HD12	3:E:52:LEU:N	2.27	0.49
3:E:349:MET:CE	3:E:354:GLN:HB2	2.42	0.49
4:B:491:VAL:CG2	4:B:905:ILE:HG22	2.42	0.49
4:B:1137:ILE:HG22	4:B:1139:ILE:HD12	1.93	0.49
4:B:1166:TRP:O	4:B:1170:ILE:HG13	2.11	0.49
4:B:1230:GLU:CB	4:B:1250:VAL:HG11	2.33	0.49
5:A:55:VAL:HG12	5:A:177:ASN:HB2	1.94	0.49
5:A:119:LEU:O	5:A:119:LEU:HD23	2.13	0.49
5:A:285:LEU:HD22	5:A:292:VAL:HG21	1.94	0.49
5:A:307:LEU:CD1	5:A:342:THR:HG21	2.43	0.49
1:K:47:PRO:HA	1:K:148:VAL:HG22	1.95	0.49
1:K:457:LEU:HD13	1:K:466:TYR:CG	2.47	0.49
1:K:483:MET:SD	1:K:485:GLN:HB2	2.53	0.49
2:I:95:TRP:HZ3	2:I:284:PRO:HD3	1.77	0.49
2:G:133:TRP:HB2	2:G:220:VAL:CG2	2.42	0.49
1:F:103:VAL:HG11	1:F:141:LEU:HD21	1.92	0.49
1:F:323:VAL:HA	1:F:326:LEU:HD12	1.91	0.49
3:E:90:ARG:CD	3:E:93:ARG:HA	2.41	0.49
4:C:453:THR:HA	4:C:1254:TYR:CB	2.42	0.49
4:C:500:SER:HB3	4:C:503:ARG:HG3	1.93	0.49
4:C:556:ILE:CD1	4:C:888:SER:HB3	2.42	0.49
4:C:906:TYR:N	4:C:907:PRO:HD2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1106:GLY:O	4:C:1135:LEU:HD12	2.12	0.49
4:C:1131:LYS:HD3	4:C:1160:TRP:CG	2.48	0.49
4:B:522:ILE:HA	4:B:525:ILE:CG1	2.41	0.49
5:A:494:TYR:HE1	5:A:541:VAL:HG22	1.78	0.49
5:A:707:GLU:CG	5:A:758:ARG:HB3	2.43	0.49
5:A:962:ASP:O	5:A:966:LEU:HG	2.13	0.49
1:K:370:LEU:HD12	1:K:403:VAL:CG1	2.39	0.49
1:K:380:LEU:N	1:K:448:LEU:O	2.40	0.49
1:K:409:PRO:CB	1:K:412:LEU:HB2	2.43	0.49
2:I:236:ARG:HE	2:I:240:LYS:HD2	1.76	0.49
2:H:243:VAL:HA	2:H:349:PHE:CB	2.33	0.49
2:H:272:PHE:CE2	2:H:282:MET:HB2	2.48	0.49
2:H:299:VAL:HG13	2:H:320:MET:CG	2.38	0.49
2:G:99:MET:HA	2:G:99:MET:CE	2.43	0.49
2:G:141:MET:CA	2:G:147:SER:HB3	2.34	0.49
2:G:210:PHE:CZ	2:G:268:MET:HG2	2.48	0.49
2:G:252:PHE:CZ	2:G:275:MET:HB2	2.48	0.49
1:F:124:PHE:CD1	1:F:188:TRP:HB2	2.47	0.49
1:F:347:ILE:O	1:F:358:HIS:HA	2.12	0.49
3:E:48:LEU:C	3:E:51:GLY:H	2.15	0.49
3:E:305:ASP:HB3	3:E:308:SER:HB2	1.94	0.49
3:E:306:ASN:HA	3:E:309:VAL:HG22	1.94	0.49
4:C:652:LEU:HD23	4:C:702:LEU:HD23	1.95	0.49
4:C:936:ALA:HA	4:C:941:THR:HB	1.95	0.49
4:C:937:GLN:NE2	4:C:945:VAL:HB	2.27	0.49
4:B:265:SER:CB	4:B:308:THR:HA	2.43	0.49
4:B:347:ARG:CB	4:B:1176:PRO:HB3	2.42	0.49
4:B:474:ILE:HG12	4:B:505:MET:O	2.13	0.49
4:B:509:ILE:HD11	4:B:918:LEU:HD22	1.94	0.49
4:B:603:VAL:HG13	4:B:831:PHE:CG	2.48	0.49
4:B:747:PRO:CG	5:A:154:SER:H	2.22	0.49
4:B:952:ILE:HD11	4:B:1031:PHE:CE2	2.46	0.49
4:B:1147:MET:N	4:B:1178:VAL:O	2.46	0.49
5:A:608:PRO:HA	5:A:659:HIS:CG	2.48	0.49
5:A:775:ILE:HD12	5:A:775:ILE:C	2.33	0.49
5:A:828:LEU:HB3	5:A:872:TYR:CD1	2.48	0.49
5:A:981:TRP:CD1	5:A:1117:PHE:HA	2.48	0.49
5:A:1047:PHE:HB2	5:A:1087:TRP:CD1	2.47	0.49
1:K:128:LEU:N	1:K:128:LEU:CD1	2.75	0.49
1:K:346:GLN:HG2	1:K:360:ASN:CG	2.33	0.49
1:K:381:ASP:HB3	1:K:492:LEU:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:506:LYS:HG3	2:G:313:TYR:N	2.19	0.49
1:K:520:GLY:C	1:K:613:GLN:HA	2.33	0.49
1:F:99:PRO:HB2	1:F:168:PRO:HD3	1.94	0.49
1:F:550:ILE:HD12	1:F:603:PHE:HE2	1.77	0.49
3:E:170:MET:HA	3:E:211:ARG:NE	2.26	0.49
4:C:338:LEU:HD12	4:C:965:PHE:CE1	2.47	0.49
4:C:356:ALA:HB1	4:C:965:PHE:CZ	2.47	0.49
4:C:1002:GLN:NE2	4:C:1006:GLY:HA2	2.27	0.49
4:C:1046:ILE:HD12	4:C:1066:VAL:HB	1.93	0.49
4:B:654:ASN:HD21	4:B:675:ALA:N	2.11	0.49
4:B:731:ASN:ND2	4:B:737:GLU:H	2.11	0.49
4:B:955:LEU:HD12	4:B:955:LEU:C	2.33	0.49
5:A:636:THR:HA	5:A:662:SER:CB	2.35	0.49
5:A:830:THR:CG2	5:A:848:CYS:HB3	2.34	0.49
1:K:325:THR:HG22	1:F:442:ILE:HD11	1.94	0.49
1:K:415:ALA:N	1:K:418:GLN:OE1	2.45	0.49
1:K:504:THR:HB	2:G:316:GLY:CA	2.43	0.49
4:C:472:MET:HE2	4:C:506:PRO:HB2	1.95	0.49
4:C:476:PRO:O	4:C:480:GLU:HG3	2.12	0.49
4:C:1081:CYS:C	4:C:1095:ARG:HB3	2.33	0.49
4:B:440:MET:HB2	4:B:443:ALA:HB3	1.93	0.49
4:B:503:ARG:HA	4:B:1263:GLU:O	2.13	0.49
4:B:854:ARG:HG3	4:B:863:SER:HB2	1.94	0.49
4:B:1041:ALA:HB3	4:B:1144:TYR:O	2.13	0.49
4:B:1203:GLU:HG3	4:B:1205:ASN:ND2	2.26	0.49
5:A:220:VAL:O	5:A:286:ARG:N	2.38	0.49
5:A:242:VAL:HA	5:A:248:ILE:HA	1.94	0.49
5:A:307:LEU:CD2	5:A:342:THR:HG21	2.43	0.49
5:A:712:GLU:CB	5:A:751:VAL:HG22	2.39	0.49
5:A:1171:PHE:HB3	5:A:1183:MET:CG	2.43	0.49
1:K:112:THR:O	1:K:116:MET:HG2	2.12	0.48
1:K:151:SER:HB3	1:F:119:GLU:CG	2.43	0.48
1:K:248:GLN:CB	1:K:257:VAL:HG12	2.38	0.48
1:K:413:TRP:CZ2	1:K:419:ILE:HA	2.48	0.48
1:K:506:LYS:HD3	2:G:311:ILE:N	2.23	0.48
1:K:506:LYS:C	2:G:312:ARG:C	2.72	0.48
1:K:575:SER:O	1:K:578:GLU:HB2	2.13	0.48
1:F:403:VAL:HG21	1:F:450:TYR:OH	2.13	0.48
1:F:453:GLU:HB2	1:F:456:GLN:HB2	1.94	0.48
3:E:35:SER:CB	4:B:1014:GLU:OE1	2.60	0.48
3:E:52:LEU:HG	3:E:281:MET:CE	2.41	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:90:ARG:HB3	3:E:111:VAL:HG12	1.95	0.48
3:E:271:PHE:CD1	3:E:304:ILE:HD11	2.48	0.48
3:E:273:MET:N	3:E:328:HIS:O	2.46	0.48
3:E:333:ARG:O	3:E:333:ARG:HD3	2.13	0.48
4:C:597:GLY:HA3	4:C:604:VAL:HG11	1.94	0.48
4:C:957:ALA:HB1	4:C:961:THR:HB	1.95	0.48
4:B:339:LEU:HB2	4:B:353:MET:HG2	1.94	0.48
4:B:812:GLN:HG2	4:B:813:GLN:HG3	1.94	0.48
5:A:50:ARG:HB2	5:A:183:ASP:CG	2.34	0.48
5:A:54:ILE:H	5:A:54:ILE:CD1	2.22	0.48
5:A:111:VAL:C	5:A:138:ILE:HB	2.33	0.48
5:A:199:PHE:O	5:A:232:HIS:HA	2.12	0.48
5:A:512:VAL:HG13	5:A:573:PHE:CD2	2.47	0.48
5:A:990:TRP:HH2	5:A:1006:ILE:HG12	1.76	0.48
5:A:1122:PRO:HB3	5:A:1148:ASN:ND2	2.28	0.48
5:A:1240:VAL:HG11	5:A:1261:TRP:CZ2	2.48	0.48
1:K:48:TRP:CB	1:K:63:LEU:HD13	2.40	0.48
1:K:53:ASP:O	1:K:56:SER:HB2	2.13	0.48
1:K:102:VAL:CG2	1:K:148:VAL:HG11	2.37	0.48
1:K:379:VAL:HA	1:K:448:LEU:O	2.13	0.48
1:K:450:TYR:HA	2:H:62:GLN:HE22	1.78	0.48
1:K:629:GLN:HA	1:K:632:LYS:HD3	1.95	0.48
2:H:14:LEU:HD13	2:H:45:CYS:SG	2.53	0.48
2:H:94:HIS:HA	2:H:97:ARG:HD2	1.93	0.48
2:H:141:MET:N	2:H:147:SER:HB2	2.28	0.48
2:G:220:VAL:O	2:G:358:ILE:HG23	2.13	0.48
1:F:51:ILE:HG13	1:F:64:ARG:HD3	1.94	0.48
1:F:53:ASP:OD1	5:A:345:TRP:CB	2.55	0.48
1:F:349:VAL:N	1:F:357:TRP:O	2.38	0.48
1:F:402:ILE:O	1:F:469:LEU:N	2.44	0.48
1:F:410:PHE:HD1	1:F:413:TRP:CE3	2.30	0.48
4:C:267:LYS:HB3	4:C:310:TRP:CE2	2.49	0.48
4:C:1031:PHE:HA	4:C:1038:PHE:CD1	2.48	0.48
4:C:1087:MET:CB	4:B:281:LEU:HA	2.14	0.48
4:C:1204:TYR:C	4:C:1204:TYR:CD2	2.87	0.48
4:C:1233:ASN:HB2	4:C:1246:GLN:HE22	1.79	0.48
4:B:483:LEU:HB2	4:B:493:VAL:CG2	2.42	0.48
4:B:550:GLN:HB2	4:B:890:LYS:HE3	1.95	0.48
4:B:707:GLU:HB3	4:B:711:ARG:HH22	1.78	0.48
4:B:854:ARG:HD3	4:B:857:ILE:HD12	1.95	0.48
4:B:1112:LEU:HD13	4:B:1139:ILE:HG21	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:50:ARG:NH1	5:A:183:ASP:OD2	2.46	0.48
5:A:391:PRO:HA	5:A:788:LEU:CG	2.43	0.48
5:A:472:PHE:CD2	5:A:646:THR:HG23	2.48	0.48
5:A:508:SER:HB2	5:A:542:PRO:HB2	1.95	0.48
5:A:827:ASP:N	5:A:847:THR:O	2.44	0.48
5:A:864:ARG:O	5:A:864:ARG:CZ	2.61	0.48
1:K:145:ASP:CG	1:K:161:LYS:HB3	2.33	0.48
1:K:383:GLY:HA2	1:K:443:ILE:CG2	2.43	0.48
1:K:591:ILE:HA	1:K:594:LYS:HD2	1.95	0.48
2:I:193:ASN:HB2	2:I:208:ARG:HH22	1.78	0.48
2:H:143:ARG:HH11	2:H:143:ARG:CG	2.27	0.48
2:G:117:ASP:O	2:G:121:VAL:HG23	2.14	0.48
2:G:244:THR:CB	2:G:247:ARG:HG2	2.37	0.48
3:E:49:GLY:O	4:B:1243:THR:HG21	2.12	0.48
4:C:606:THR:H	4:C:640:THR:HG1	1.61	0.48
4:C:1002:GLN:HE22	4:C:1006:GLY:HA2	1.78	0.48
4:C:1210:PHE:CE2	4:C:1227:ILE:HG12	2.49	0.48
4:B:437:ALA:N	4:B:445:SER:HB3	2.28	0.48
4:B:1166:TRP:CZ3	4:B:1170:ILE:HD11	2.48	0.48
5:A:3:ASN:HD22	5:A:3:ASN:C	2.16	0.48
5:A:4:VAL:HG12	5:A:341:GLU:HB2	1.94	0.48
5:A:201:SER:HB3	5:A:207:LEU:HG	1.95	0.48
5:A:436:SER:CA	5:A:643:PRO:HA	2.44	0.48
5:A:517:ALA:HB1	5:A:527:PRO:CG	2.43	0.48
5:A:580:GLN:HE22	5:A:617:ASN:HB2	1.78	0.48
5:A:927:ASN:HA	5:A:1016:MET:HG2	1.96	0.48
5:A:1044:ILE:HG22	5:A:1047:PHE:CG	2.48	0.48
1:K:203:VAL:HG21	1:K:208:VAL:HG13	1.95	0.48
1:K:375:PRO:HB3	1:K:453:GLU:HA	1.94	0.48
1:K:507:GLY:O	2:G:316:GLY:C	2.49	0.48
2:H:260:ALA:HA	2:H:271:VAL:HA	1.95	0.48
2:H:262:THR:O	2:H:269:PRO:HA	2.13	0.48
2:G:132:ASN:O	2:G:136:VAL:HG23	2.13	0.48
2:G:197:LEU:HD22	2:G:201:ALA:HB1	1.96	0.48
1:F:199:LEU:HD22	1:F:219:LEU:HD21	1.95	0.48
4:C:802:LEU:O	4:C:804:LYS:HD2	2.14	0.48
4:C:860:PRO:O	4:B:440:MET:SD	2.60	0.48
4:C:1033:HIS:CD2	4:C:1248:PRO:HG2	2.49	0.48
4:B:307:HIS:ND1	4:B:310:TRP:HB3	2.28	0.48
4:B:348:GLY:HA3	4:B:1174:SER:HB2	1.95	0.48
4:B:543:LEU:HB3	4:B:592:ARG:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:562:THR:HG22	4:B:799:LYS:HE2	1.94	0.48
4:B:627:TRP:O	4:B:631:ILE:HG12	2.13	0.48
4:B:946:ASP:HB3	4:B:948:TYR:CE1	2.47	0.48
5:A:27:LEU:N	5:A:109:GLU:O	2.46	0.48
5:A:76:PRO:HD2	5:A:82:TRP:HD1	1.79	0.48
5:A:485:LYS:HG2	5:A:643:PRO:CB	2.43	0.48
5:A:907:PHE:HE2	5:A:969:ILE:HB	1.79	0.48
1:K:200:PRO:HG2	1:K:661:THR:HG23	1.95	0.48
1:K:360:ASN:OD1	1:K:360:ASN:N	2.46	0.48
2:I:75:GLN:CG	1:F:581:TYR:HE1	2.26	0.48
2:I:330:GLN:O	2:I:334:VAL:N	2.41	0.48
2:H:292:LEU:HD22	2:H:327:THR:HG22	1.95	0.48
2:G:16:ASN:O	2:G:20:GLU:HB2	2.14	0.48
2:G:66:LYS:N	2:G:66:LYS:CD	2.59	0.48
2:G:177:SER:CB	2:G:179:LEU:HG	2.43	0.48
2:G:244:THR:HB	2:G:247:ARG:CG	2.36	0.48
1:F:382:LEU:HD23	1:F:385:LYS:HG3	1.94	0.48
3:E:179:LEU:HA	3:E:182:TYR:CE2	2.49	0.48
3:E:244:ARG:NH1	3:E:336:VAL:HG22	2.28	0.48
4:C:476:PRO:HG2	4:C:497:TYR:CE2	2.48	0.48
4:C:500:SER:HB3	4:C:503:ARG:CG	2.44	0.48
4:C:985:GLU:N	4:C:986:PRO:CD	2.74	0.48
4:B:475:ASN:ND2	4:B:478:GLU:H	2.11	0.48
4:B:663:PRO:HD2	4:B:687:CYS:SG	2.54	0.48
5:A:9:LEU:CD2	5:A:314:LEU:HA	2.42	0.48
5:A:66:LEU:HD22	5:A:73:TYR:HE2	1.78	0.48
5:A:486:ASP:O	5:A:490:LEU:HG	2.14	0.48
5:A:1042:LEU:O	5:A:1088:THR:HA	2.13	0.48
1:K:55:THR:CG2	1:K:147:TYR:HB2	2.36	0.48
1:K:370:LEU:HD21	1:K:468:LEU:HB2	1.96	0.48
1:K:564:ASN:O	1:K:567:PRO:HD2	2.14	0.48
2:I:27:SER:O	2:I:31:GLY:N	2.47	0.48
2:I:47:GLY:HA2	2:I:61:LEU:HD12	1.95	0.48
2:I:318:GLY:CA	2:I:322:GLY:HA3	2.36	0.48
2:H:315:LEU:HD22	2:H:315:LEU:N	2.29	0.48
2:G:52:MET:CE	2:G:52:MET:CA	2.87	0.48
2:G:128:LEU:HD12	2:G:128:LEU:O	2.14	0.48
1:F:323:VAL:HB	1:F:489:TRP:HB3	1.95	0.48
3:E:230:GLN:HG3	3:E:256:SER:OG	2.13	0.48
4:C:262:LEU:HB2	4:C:311:ALA:CB	2.40	0.48
4:C:1055:LEU:HD13	4:C:1222:GLY:HA2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1156:TYR:CE2	4:C:1158:ASN:HB2	2.48	0.48
4:B:891:TYR:HB3	4:B:895:LEU:HD22	1.96	0.48
5:A:825:VAL:O	5:A:847:THR:N	2.46	0.48
5:A:984:LEU:HD13	5:A:1013:TYR:CZ	2.49	0.48
5:A:1013:TYR:CE1	5:A:1017:PRO:HA	2.48	0.48
5:A:1158:ARG:HG3	5:A:1158:ARG:NH1	2.28	0.48
5:A:1175:SER:HA	5:A:1181:LEU:HD12	1.95	0.48
1:K:223:LEU:HD13	1:K:230:ARG:NH1	2.29	0.48
3:E:161:ILE:HA	3:E:272:VAL:C	2.34	0.48
4:C:597:GLY:CA	4:C:604:VAL:HG11	2.44	0.48
4:C:991:ASP:N	4:C:992:PRO:CD	2.77	0.48
4:B:492:THR:HG1	4:B:1274:VAL:HB	1.77	0.48
4:B:1031:PHE:HZ	4:B:1040:ILE:HG13	1.77	0.48
5:A:89:LYS:HB3	5:A:123:PHE:CE2	2.48	0.48
5:A:410:GLY:HA2	5:A:725:ILE:HG22	1.94	0.48
5:A:1135:ASP:HB3	5:A:1140:GLY:C	2.34	0.48
1:K:606:ASP:CG	1:K:609:THR:HG23	2.33	0.48
1:K:621:LYS:O	1:K:625:ILE:HG13	2.14	0.48
2:I:25:ILE:HG12	2:I:43:MET:HG2	1.96	0.48
2:H:5:LEU:HD23	2:H:5:LEU:HA	1.74	0.48
2:G:299:VAL:HG21	2:G:324:TYR:CD1	2.48	0.48
1:F:399:VAL:O	1:F:427:TYR:HA	2.14	0.48
3:E:275:THR:HG23	3:E:329:GLY:C	2.34	0.48
3:E:369:ARG:HA	3:E:402:TRP:CH2	2.49	0.48
4:C:373:ASN:HB3	4:C:1259:ARG:NE	2.28	0.48
4:C:413:THR:HB	4:C:420:CYS:SG	2.53	0.48
4:C:1002:GLN:HB3	4:C:1008:THR:HG22	1.96	0.48
4:C:1131:LYS:HD2	4:C:1131:LYS:C	2.32	0.48
4:B:271:ILE:HB	4:B:301:VAL:HG12	1.96	0.48
4:B:332:ILE:O	4:B:336:LYS:N	2.41	0.48
4:B:399:ALA:O	4:B:403:TYR:HD1	1.97	0.48
4:B:464:ARG:HH22	4:B:1026:LEU:HD22	1.79	0.48
4:B:552:ASP:OD1	4:B:554:THR:HG23	2.14	0.48
5:A:940:LEU:HD12	5:A:950:ARG:O	2.14	0.48
5:A:1020:ARG:HD3	5:A:1021:ILE:N	2.29	0.48
5:A:1160:ASP:HB3	5:A:1162:GLN:NE2	2.28	0.48
1:K:48:TRP:N	1:K:147:TYR:O	2.37	0.48
1:K:634:SER:HA	1:K:637:THR:OG1	2.14	0.48
2:I:268:MET:HG2	2:I:284:PRO:HB3	1.96	0.48
2:H:7:ASN:O	2:H:11:ILE:HG13	2.13	0.48
2:H:256:HIS:CE1	2:H:276:LEU:HB3	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:141:MET:HG3	2:G:142:PHE:N	2.29	0.48
2:G:288:GLY:CA	2:G:291:LYS:HE3	2.36	0.48
1:F:46:VAL:HG11	1:F:65:ARG:CD	2.44	0.48
1:F:406:SER:O	1:F:465:ASN:N	2.43	0.48
3:E:93:ARG:HA	3:E:107:ALA:CB	2.44	0.48
3:E:95:VAL:HG23	3:E:107:ALA:HA	1.96	0.48
3:E:146:GLN:O	3:E:150:VAL:HG23	2.13	0.48
4:C:623:LEU:O	4:C:626:LEU:HB2	2.13	0.48
4:C:674:ARG:HA	4:C:674:ARG:HD3	1.55	0.48
4:C:769:CYS:SG	4:C:801:LYS:HB2	2.54	0.48
4:C:943:TYR:CD1	4:C:944:PRO:HD2	2.49	0.48
4:C:1153:PRO:HG3	4:C:1183:PRO:HB3	1.96	0.48
4:C:1209:LEU:HD21	4:C:1212:THR:HG22	1.96	0.48
4:B:646:VAL:HG21	4:B:684:TRP:CD2	2.49	0.48
5:A:18:ILE:O	5:A:276:VAL:N	2.46	0.48
5:A:18:ILE:HD12	5:A:273:ALA:HA	1.96	0.48
5:A:70:THR:OG1	5:A:193:SER:OG	2.31	0.48
5:A:354:ALA:HA	5:A:375:LEU:HD22	1.95	0.48
5:A:393:PRO:HB2	5:A:740:SER:C	2.33	0.48
5:A:635:ILE:HG13	5:A:635:ILE:O	2.14	0.48
5:A:741:ILE:O	5:A:787:ILE:HD12	2.13	0.48
5:A:919:ALA:HB3	5:A:922:VAL:HG22	1.95	0.48
5:A:1013:TYR:HE1	5:A:1018:ILE:HG13	1.79	0.48
5:A:1167:ASN:H	5:A:1270:TRP:HA	1.79	0.48
5:A:1242:GLU:N	5:A:1245:ASN:O	2.30	0.48
1:K:350:THR:HA	1:K:355:THR:O	2.12	0.48
1:K:389:GLU:HG2	1:K:392:TRP:CD1	2.49	0.48
1:K:525:GLU:CD	1:K:525:GLU:N	2.65	0.48
2:I:186:ARG:NH2	2:I:245:PRO:HA	2.28	0.48
2:H:109:MET:SD	2:H:131:LEU:HA	2.54	0.48
2:H:122:ARG:HD2	2:H:177:SER:HA	1.96	0.48
2:H:131:LEU:HD21	2:H:136:VAL:HG22	1.96	0.48
2:G:288:GLY:HA2	2:G:291:LYS:CD	2.44	0.48
1:F:114:ALA:O	1:F:118:LEU:HG	2.13	0.48
1:F:351:ASP:HA	1:F:424:VAL:O	2.14	0.48
1:F:375:PRO:CG	1:F:454:PRO:HD2	2.39	0.48
3:E:111:VAL:HA	3:E:114:GLN:CD	2.34	0.48
4:C:307:HIS:HA	4:C:323:ILE:HA	1.95	0.48
4:C:448:VAL:O	4:C:1258:THR:HA	2.13	0.48
4:C:465:TRP:O	4:C:469:LEU:HG	2.14	0.48
4:C:699:ALA:CB	4:C:702:LEU:HB2	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:785:TRP:CZ3	4:C:789:LEU:HD22	2.48	0.48
4:C:1129:TRP:O	4:C:1133:GLY:N	2.45	0.48
4:C:1159:ALA:HA	4:C:1162:LEU:HD13	1.94	0.48
4:B:378:PHE:HE2	4:B:450:VAL:HG21	1.79	0.48
4:B:1115:TRP:CZ3	4:B:1122:PHE:HB3	2.48	0.48
5:A:25:TYR:OH	5:A:30:LEU:HA	2.13	0.48
5:A:322:LEU:HD13	5:A:326:TRP:CZ3	2.49	0.48
5:A:842:ALA:HB1	5:A:863:VAL:HG11	1.96	0.48
1:K:287:GLU:HA	1:K:290:MET:CE	2.44	0.47
1:K:367:VAL:CG1	1:K:469:LEU:HB2	2.41	0.47
1:K:404:PHE:H	1:K:404:PHE:HD1	1.61	0.47
1:K:575:SER:HA	1:K:578:GLU:HG2	1.95	0.47
2:I:262:THR:O	2:I:264:ILE:N	2.46	0.47
2:I:273:SER:OG	2:I:281:LYS:N	2.47	0.47
2:H:19:PHE:CE1	2:H:291:LYS:HG2	2.49	0.47
2:H:197:LEU:HB3	2:H:201:ALA:CB	2.44	0.47
2:G:133:TRP:HA	2:G:136:VAL:HB	1.96	0.47
1:F:148:VAL:HG21	1:F:160:GLN:HB2	1.96	0.47
1:F:336:MET:CE	1:F:364:GLY:HA2	2.44	0.47
1:F:514:VAL:HG11	1:F:517:GLU:HG2	1.95	0.47
4:C:407:TYR:CD2	4:C:431:VAL:HG22	2.49	0.47
4:C:759:ASN:ND2	4:C:808:PRO:HB2	2.26	0.47
4:B:352:LEU:HD22	4:B:955:LEU:HA	1.96	0.47
4:B:381:ASP:HB3	4:B:388:GLY:CA	2.44	0.47
4:B:433:ARG:HD2	4:B:436:ARG:HD3	1.95	0.47
4:B:857:ILE:HB	4:B:863:SER:HB3	1.96	0.47
5:A:64:GLN:HB3	5:A:169:GLY:H	1.79	0.47
5:A:105:ASN:OD1	5:A:105:ASN:N	2.46	0.47
5:A:355:TYR:O	5:A:371:ARG:NH1	2.46	0.47
1:K:346:GLN:HG2	1:K:360:ASN:CB	2.43	0.47
1:K:367:VAL:HG23	1:K:467:TYR:HB3	1.95	0.47
1:F:232:TYR:N	1:F:233:PRO:HD3	2.29	0.47
3:E:79:PRO:HB3	3:E:101:LEU:HD21	1.96	0.47
4:C:379:SER:N	4:C:391:LEU:O	2.43	0.47
4:C:430:ARG:HG3	4:C:1234:ILE:O	2.13	0.47
4:C:437:ALA:HB2	4:C:447:TRP:CD1	2.49	0.47
4:C:591:PHE:CE1	4:C:811:LEU:HD21	2.48	0.47
4:C:1002:GLN:HB2	4:C:1002:GLN:HE21	1.50	0.47
4:B:747:PRO:CD	5:A:154:SER:H	2.26	0.47
4:B:999:ILE:O	4:B:1010:ASN:HA	2.14	0.47
5:A:92:VAL:HA	5:A:95:TYR:CD1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:423:ARG:CB	5:A:697:VAL:HG22	2.41	0.47
5:A:436:SER:HA	5:A:642:LYS:O	2.14	0.47
5:A:850:ASP:HA	5:A:872:TYR:HB2	1.95	0.47
5:A:907:PHE:CE2	5:A:966:LEU:HA	2.49	0.47
5:A:1242:GLU:HA	5:A:1283:ASP:O	2.14	0.47
1:K:355:THR:HG21	1:K:357:TRP:CZ2	2.50	0.47
1:K:589:LYS:HG3	1:K:590:GLY:N	2.29	0.47
1:K:667:LYS:O	1:K:670:THR:HB	2.14	0.47
2:G:72:ARG:HH22	2:G:74:ASN:HA	1.79	0.47
1:F:343:THR:O	1:F:362:ARG:HA	2.15	0.47
3:E:34:ASN:HB3	3:E:104:LEU:O	2.15	0.47
3:E:60:THR:HG21	3:E:280:ASN:HB3	1.94	0.47
3:E:183:PHE:CG	4:B:499:PRO:HB3	2.49	0.47
3:E:243:ARG:CZ	4:B:435:ASP:OD1	2.62	0.47
3:E:306:ASN:HD22	3:E:322:ARG:HE	1.61	0.47
3:E:311:ALA:CA	3:E:314:ARG:HG3	2.38	0.47
4:C:373:ASN:HB3	4:C:1259:ARG:CZ	2.43	0.47
4:C:475:ASN:OD1	4:C:475:ASN:C	2.53	0.47
4:C:541:VAL:HG13	4:C:545:ARG:CZ	2.44	0.47
4:C:862:LEU:CD2	4:B:443:ALA:HA	2.42	0.47
4:C:1204:TYR:CD2	4:C:1204:TYR:O	2.67	0.47
4:B:473:ASN:HD21	4:B:504:LEU:HA	1.79	0.47
4:B:608:ILE:HD12	4:B:879:ALA:CB	2.34	0.47
4:B:1083:ILE:CG1	4:B:1094:ILE:HG13	2.34	0.47
4:B:1173:THR:O	4:B:1173:THR:HG22	2.15	0.47
5:A:135:LEU:N	5:A:135:LEU:HD23	2.29	0.47
5:A:242:VAL:O	5:A:242:VAL:CG2	2.60	0.47
5:A:391:PRO:O	5:A:788:LEU:HB2	2.13	0.47
5:A:486:ASP:HB2	5:A:529:VAL:CG2	2.39	0.47
5:A:615:LYS:HE3	5:A:650:GLU:HG3	1.95	0.47
5:A:1190:ALA:HB2	5:A:1231:SER:O	2.15	0.47
1:K:138:SER:O	1:K:141:LEU:HB2	2.13	0.47
2:H:133:TRP:HB2	2:H:220:VAL:HB	1.95	0.47
2:G:236:ARG:CZ	2:G:240:LYS:HD2	2.45	0.47
1:F:212:MET:O	1:F:216:VAL:HG23	2.14	0.47
3:E:208:THR:O	3:E:212:MET:HG3	2.14	0.47
4:C:1130:ILE:HG22	4:C:1160:TRP:CZ3	2.49	0.47
4:C:1245:ILE:HD12	4:C:1247:LEU:HB2	1.97	0.47
4:B:254:ARG:CZ	4:B:316:PHE:HB2	2.44	0.47
4:B:339:LEU:CD2	4:B:964:THR:HG21	2.45	0.47
4:B:437:ALA:HB2	4:B:447:TRP:CE2	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:524:ASN:HD22	4:B:525:ILE:N	2.12	0.47
4:B:752:THR:HG22	4:B:895:LEU:O	2.15	0.47
5:A:1189:ILE:CD1	5:A:1230:LEU:HB2	2.44	0.47
5:A:1197:TYR:CE2	5:A:1213:PRO:HB3	2.50	0.47
1:K:67:THR:O	1:K:70:ASP:HB2	2.14	0.47
1:K:336:MET:HB2	1:K:366:ARG:HB3	1.96	0.47
1:K:375:PRO:HB2	1:K:498:LEU:HD12	1.96	0.47
1:K:571:GLN:HB3	1:K:623:ASN:CG	2.35	0.47
2:H:190:HIS:HB3	2:H:195:VAL:HG13	1.97	0.47
2:G:186:ARG:HG3	2:G:347:THR:HG21	1.96	0.47
1:F:576:GLN:O	1:F:584:ARG:NH1	2.47	0.47
1:F:645:LYS:O	1:F:648:VAL:HG22	2.15	0.47
3:E:152:LEU:O	3:E:156:THR:HG23	2.14	0.47
3:E:176:ASN:C	3:E:176:ASN:ND2	2.67	0.47
3:E:258:ASN:OD1	4:C:1010:ASN:CB	2.63	0.47
3:E:281:MET:CE	3:E:281:MET:CA	2.83	0.47
4:C:433:ARG:HD3	4:C:448:VAL:CG2	2.44	0.47
4:B:250:ALA:HB1	4:B:920:ARG:HG2	1.97	0.47
4:B:268:ILE:HG13	4:B:304:ILE:HG12	1.96	0.47
4:B:746:GLN:CA	5:A:154:SER:HB2	2.44	0.47
4:B:1071:THR:HB	4:B:1074:VAL:HG21	1.95	0.47
5:A:171:LYS:HB3	5:A:190:LYS:CG	2.45	0.47
5:A:279:LEU:HD12	5:A:364:ALA:CB	2.44	0.47
5:A:307:LEU:HB3	5:A:312:TYR:CG	2.49	0.47
5:A:693:SER:CB	5:A:696:TYR:HB3	2.45	0.47
5:A:873:LEU:CD1	5:A:899:LYS:HE2	2.44	0.47
5:A:1063:PHE:HD2	5:A:1073:ILE:HD12	1.78	0.47
5:A:1096:ALA:HA	5:A:1119:VAL:CG1	2.44	0.47
5:A:1157:VAL:CG2	5:A:1166:ALA:HB2	2.44	0.47
5:A:1198:ILE:CG1	5:A:1214:LEU:HD21	2.20	0.47
1:K:341:MET:CE	1:K:341:MET:CA	2.91	0.47
2:I:362:MET:HE3	2:I:364:LEU:HD23	1.96	0.47
2:H:271:VAL:HG13	2:H:343:PHE:CZ	2.50	0.47
3:E:16:LEU:HD11	3:E:392:PHE:CE1	2.50	0.47
3:E:161:ILE:HG22	3:E:273:MET:HG2	1.97	0.47
4:C:542:LEU:HD11	4:C:546:ILE:HD12	1.96	0.47
4:C:685:PRO:HB2	4:C:688:PHE:H	1.79	0.47
4:C:782:GLN:HB2	4:C:785:TRP:CE2	2.50	0.47
4:C:1198:TYR:N	4:C:1198:TYR:CD1	2.82	0.47
4:B:407:TYR:CD2	4:B:431:VAL:HG23	2.50	0.47
4:B:931:LEU:O	4:B:935:VAL:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:57:VAL:N	5:A:173:LEU:O	2.38	0.47
5:A:263:GLN:HG2	5:A:281:GLN:HB2	1.96	0.47
5:A:326:TRP:CE3	5:A:326:TRP:C	2.88	0.47
5:A:617:ASN:C	5:A:617:ASN:HD22	2.17	0.47
5:A:770:ARG:N	5:A:860:CYS:O	2.46	0.47
1:K:166:ILE:HG13	1:K:170:ARG:NH1	2.29	0.47
1:K:279:LEU:HD22	1:K:282:LYS:NZ	2.29	0.47
1:K:302:ALA:HB1	1:K:625:ILE:CG1	2.33	0.47
1:K:336:MET:HG3	1:K:366:ARG:HB3	1.96	0.47
1:K:403:VAL:O	1:K:423:THR:N	2.42	0.47
1:K:405:GLN:HB3	1:K:466:TYR:CE2	2.49	0.47
1:K:410:PHE:HB3	1:K:467:TYR:CZ	2.50	0.47
1:K:510:VAL:H	2:G:312:ARG:HH21	1.61	0.47
2:I:3:VAL:HG23	2:I:56:GLY:HA3	1.93	0.47
2:I:74:ASN:HB2	2:I:76:GLN:NE2	2.29	0.47
2:H:137:ASP:OD2	2:H:140:SER:HB3	2.15	0.47
2:H:180:VAL:CG2	2:H:244:THR:HA	2.43	0.47
2:G:92:THR:HG22	2:G:96:LYS:CD	2.44	0.47
2:G:179:LEU:HD22	2:G:365:GLY:CA	2.44	0.47
2:G:246:ALA:HA	2:G:250:GLY:O	2.14	0.47
1:F:131:LEU:HD23	1:F:131:LEU:O	2.14	0.47
1:F:347:ILE:O	1:F:359:PHE:N	2.43	0.47
1:F:405:GLN:HB3	1:F:464:MET:CE	2.44	0.47
1:F:459:LYS:HG3	1:F:466:TYR:HE1	1.79	0.47
3:E:241:CYS:HB3	3:E:251:TRP:CD2	2.49	0.47
4:C:300:ALA:CB	4:C:1185:SER:HB3	2.37	0.47
4:C:637:PRO:HA	4:C:713:TRP:CH2	2.49	0.47
4:C:690:ASN:HB3	4:C:693:LEU:CD1	2.44	0.47
4:C:1115:TRP:O	4:C:1119:THR:N	2.48	0.47
4:C:1249:GLU:CD	4:C:1249:GLU:N	2.67	0.47
4:B:259:ASP:CA	4:B:314:VAL:HG12	2.37	0.47
4:B:272:VAL:HB	4:B:301:VAL:HB	1.97	0.47
4:B:332:ILE:O	4:B:336:LYS:HG2	2.15	0.47
4:B:503:ARG:NH1	4:B:1270:VAL:HG11	2.29	0.47
4:B:718:GLN:HE22	4:B:738:VAL:HG22	1.79	0.47
4:B:857:ILE:HG21	4:B:862:LEU:HB2	1.95	0.47
5:A:46:LEU:O	5:A:54:ILE:HA	2.15	0.47
5:A:251:ALA:O	5:A:255:MET:HG3	2.15	0.47
5:A:442:ASN:HB3	5:A:445:HIS:CG	2.49	0.47
5:A:735:GLY:O	5:A:736:ASN:HB2	2.14	0.47
5:A:861:TRP:HA	5:A:861:TRP:HE3	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:907:PHE:CZ	5:A:911:ILE:HD11	2.50	0.47
5:A:971:ARG:HD3	5:A:971:ARG:HA	1.72	0.47
5:A:1053:PHE:O	5:A:1064:SER:HA	2.14	0.47
5:A:1136:PHE:CG	5:A:1228:LEU:HD22	2.49	0.47
1:K:124:PHE:HD2	1:K:185:LEU:HD23	1.80	0.47
1:K:173:MET:HE2	1:K:177:SER:HB3	1.97	0.47
1:K:375:PRO:HA	1:K:453:GLU:HA	1.96	0.47
1:K:661:THR:HG23	1:K:664:PHE:HE2	1.80	0.47
2:H:170:LEU:HA	2:H:173:MET:HE3	1.97	0.47
3:E:185:HIS:O	3:E:252:ILE:HG23	2.15	0.47
4:C:436:ARG:HB3	4:C:448:VAL:HG23	1.96	0.47
4:C:532:ILE:HD12	4:C:873:VAL:HG21	1.97	0.47
4:C:607:VAL:HG22	4:C:875:LEU:C	2.35	0.47
4:C:663:PRO:HG2	4:C:687:CYS:HB2	1.96	0.47
4:C:991:ASP:HA	4:C:993:ARG:NH2	2.26	0.47
4:C:1104:PHE:CD2	4:C:1126:PHE:HD2	2.31	0.47
4:B:409:THR:HA	4:B:423:VAL:CG1	2.43	0.47
4:B:520:ILE:HD13	4:B:523:MET:SD	2.54	0.47
5:A:41:GLU:CD	5:A:41:GLU:H	2.18	0.47
5:A:186:PRO:HD3	5:A:324:ASN:CB	2.45	0.47
5:A:288:GLY:HA2	5:A:291:TYR:CD1	2.50	0.47
5:A:406:ALA:HB3	5:A:409:GLU:CG	2.40	0.47
5:A:1135:ASP:H	5:A:1141:THR:HG22	1.78	0.47
5:A:1156:PHE:CZ	5:A:1206:VAL:HG11	2.49	0.47
5:A:1171:PHE:CD2	5:A:1185:VAL:HB	2.49	0.47
1:K:142:THR:O	1:K:165:VAL:N	2.48	0.47
2:I:101:SER:O	2:I:105:GLN:HG3	2.14	0.47
2:G:127:SER:HA	2:G:364:LEU:CA	2.44	0.47
1:F:373:ILE:O	1:F:374:ALA:HB3	2.14	0.47
3:E:181:ASN:ND2	4:B:497:TYR:CE1	2.83	0.47
3:E:406:ASN:O	3:E:410:THR:HG23	2.15	0.47
4:C:582:ARG:N	4:C:583:PRO:HD3	2.30	0.47
4:C:595:LEU:O	4:C:599:LEU:HG	2.15	0.47
4:B:516:ILE:CG1	4:B:1013:PRO:HB3	2.45	0.47
4:B:1245:ILE:HD12	4:B:1247:LEU:HD12	1.96	0.47
5:A:448:VAL:O	5:A:666:TRP:HB2	2.15	0.47
5:A:494:TYR:CE1	5:A:541:VAL:HG22	2.49	0.47
5:A:750:ARG:HB3	5:A:750:ARG:CZ	2.45	0.47
5:A:832:PRO:HB3	5:A:855:ALA:H	1.78	0.47
5:A:1126:ILE:CG1	5:A:1147:VAL:HG22	2.25	0.47
5:A:1241:LYS:O	5:A:1284:TYR:HA	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:589:LYS:HG3	1:F:590:GLY:N	2.29	0.47
3:E:222:LEU:HD22	3:E:418:ILE:HD11	1.97	0.47
4:C:433:ARG:HD2	4:C:436:ARG:HB3	1.97	0.47
4:C:547:SER:HB3	4:C:592:ARG:HH12	1.80	0.47
4:C:669:TYR:HA	4:C:673:ARG:HD2	1.95	0.47
4:C:1230:GLU:O	4:C:1233:ASN:HB2	2.15	0.47
4:B:332:ILE:HD11	4:B:349:ALA:CB	2.44	0.47
5:A:8:ARG:HG2	5:A:315:ALA:CB	2.45	0.47
5:A:130:TYR:HA	5:A:133:LEU:CG	2.44	0.47
5:A:632:LEU:HD13	5:A:665:THR:HA	1.97	0.47
5:A:873:LEU:CG	5:A:895:ALA:HB1	2.44	0.47
5:A:1117:PHE:CD1	5:A:1117:PHE:C	2.88	0.47
5:A:1129:ALA:O	5:A:1143:VAL:HG13	2.15	0.47
5:A:1156:PHE:HE1	5:A:1199:ARG:HB2	1.80	0.47
1:K:303:SER:HB3	1:K:515:PRO:HD2	1.97	0.46
1:K:359:PHE:CZ	1:K:402:ILE:HG12	2.50	0.46
2:I:41:ASP:O	2:I:52:MET:HB2	2.15	0.46
2:I:131:LEU:HD21	2:I:136:VAL:HG22	1.97	0.46
2:G:180:VAL:N	2:G:364:LEU:O	2.36	0.46
2:G:196:ARG:HE	2:G:355:PRO:HB3	1.80	0.46
2:G:228:LEU:C	2:G:228:LEU:HD12	2.36	0.46
1:F:127:LYS:HE3	1:F:232:TYR:CD2	2.49	0.46
1:F:334:LEU:CD2	1:F:368:VAL:HG22	2.45	0.46
1:F:370:LEU:HB2	1:F:466:TYR:CB	2.45	0.46
1:F:515:PRO:O	1:F:518:LEU:HB2	2.15	0.46
3:E:117:LEU:HD12	3:E:118:GLN:N	2.30	0.46
3:E:153:LEU:HD12	3:E:153:LEU:C	2.34	0.46
4:B:360:HIS:CE1	4:B:364:GLU:HG3	2.50	0.46
4:B:934:LEU:HB3	4:B:965:PHE:CE2	2.50	0.46
5:A:164:LEU:O	5:A:199:PHE:HA	2.15	0.46
5:A:312:TYR:CZ	5:A:379:MET:HE1	2.50	0.46
5:A:918:THR:HG22	5:A:918:THR:O	2.15	0.46
1:K:336:MET:HG2	1:K:337:ILE:O	2.15	0.46
1:K:344:LEU:HD12	1:K:361:LEU:O	2.15	0.46
1:K:509:VAL:HA	2:G:317:PRO:HG3	1.27	0.46
2:I:206:PHE:CD2	2:I:267:LYS:HB3	2.47	0.46
2:H:299:VAL:HA	2:H:320:MET:SD	2.56	0.46
2:G:200:ASP:HB2	2:G:358:ILE:HD12	1.97	0.46
2:G:349:PHE:CZ	2:G:354:TYR:HE1	2.33	0.46
1:F:459:LYS:HG3	1:F:466:TYR:CE1	2.50	0.46
1:F:621:LYS:O	1:F:625:ILE:HG13	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:239:PHE:C	3:E:251:TRP:HB3	2.35	0.46
4:C:493:VAL:HA	4:C:1271:VAL:HA	1.98	0.46
4:C:790:VAL:O	4:C:794:ARG:HG3	2.16	0.46
4:C:1083:ILE:HG22	4:C:1084:SER:O	2.14	0.46
4:C:1147:MET:HB3	4:C:1178:VAL:O	2.15	0.46
4:B:268:ILE:HG22	4:B:297:PRO:HG2	1.96	0.46
4:B:514:ARG:CZ	4:B:918:LEU:HD21	2.45	0.46
4:B:609:ASP:N	4:B:877:LEU:O	2.47	0.46
4:B:1081:CYS:HB2	4:B:1095:ARG:O	2.15	0.46
4:B:1107:ASN:O	4:B:1108:TRP:HD1	1.98	0.46
4:B:1230:GLU:CB	4:B:1250:VAL:HG21	2.45	0.46
5:A:279:LEU:CB	5:A:361:VAL:HG22	2.31	0.46
5:A:510:GLN:HB2	5:A:572:GLN:CD	2.35	0.46
1:K:47:PRO:HG2	1:K:100:LEU:HB2	1.97	0.46
1:K:140:LEU:HD12	1:K:140:LEU:H	1.79	0.46
1:K:272:PRO:HB3	1:K:278:PRO:HD3	1.97	0.46
1:K:375:PRO:CB	1:K:453:GLU:HA	2.45	0.46
2:G:223:TYR:HA	2:G:356:VAL:HA	1.98	0.46
1:F:128:LEU:HB3	1:F:130:VAL:HG12	1.97	0.46
1:F:347:ILE:HD11	1:F:359:PHE:CE1	2.50	0.46
3:E:90:ARG:HD2	3:E:93:ARG:H	1.79	0.46
3:E:175:VAL:HG21	3:E:208:THR:HB	1.96	0.46
3:E:414:ILE:HA	3:E:417:LEU:CD1	2.46	0.46
4:C:254:ARG:HB2	4:C:254:ARG:HH11	1.80	0.46
4:C:394:LEU:HD12	4:C:402:TRP:CG	2.51	0.46
4:C:716:PRO:CD	4:C:837:ARG:HD2	2.45	0.46
4:C:811:LEU:HA	4:C:815:ALA:HB2	1.97	0.46
4:C:822:ILE:HA	4:C:825:MET:CG	2.46	0.46
4:C:822:ILE:O	4:C:825:MET:HB2	2.15	0.46
4:C:846:MET:CE	4:C:869:THR:HA	2.46	0.46
4:C:998:ALA:CB	4:C:1012:ILE:HG12	2.44	0.46
4:C:1076:ILE:HG12	4:C:1109:ILE:CB	2.40	0.46
4:C:1081:CYS:CA	4:C:1095:ARG:HB3	2.45	0.46
4:B:715:ASN:O	4:B:744:ASP:N	2.47	0.46
4:B:903:ASP:O	4:B:907:PRO:HD2	2.15	0.46
4:B:1009:PHE:N	4:B:1009:PHE:CD1	2.83	0.46
4:B:1093:MET:HA	4:B:1102:VAL:C	2.36	0.46
5:A:448:VAL:HG21	5:A:668:SER:HA	1.95	0.46
5:A:528:LEU:O	5:A:532:PRO:HD3	2.16	0.46
5:A:671:TYR:O	5:A:675:VAL:HG23	2.16	0.46
5:A:750:ARG:HH11	5:A:750:ARG:CB	2.25	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:979:ILE:O	5:A:1115:GLY:HA3	2.16	0.46
5:A:980:THR:HA	5:A:1116:SER:H	1.81	0.46
1:K:392:TRP:C	1:K:392:TRP:HD1	2.15	0.46
2:H:99:MET:O	2:H:103:VAL:HG23	2.15	0.46
2:H:100:LEU:CD2	2:H:159:LEU:HD12	2.40	0.46
2:G:158:ASP:CB	2:G:162:LYS:HE3	2.44	0.46
1:F:55:THR:HG22	1:F:55:THR:O	2.15	0.46
1:F:550:ILE:HD12	1:F:603:PHE:CE2	2.51	0.46
3:E:98:ALA:HB1	3:E:99:PRO:CD	2.45	0.46
3:E:167:ASP:HB3	3:E:170:MET:SD	2.56	0.46
4:C:225:SER:OG	4:C:228:GLN:HG2	2.16	0.46
4:C:491:VAL:CA	4:C:1274:VAL:HG23	2.41	0.46
4:B:261:GLY:N	4:B:313:ASN:H	2.13	0.46
4:B:409:THR:HG22	4:B:428:ARG:NH2	2.31	0.46
4:B:480:GLU:HB2	4:B:495:SER:HB3	1.98	0.46
4:B:657:VAL:HG22	4:B:671:GLN:NE2	2.29	0.46
4:B:947:ARG:HB3	4:B:950:ASP:CG	2.35	0.46
4:B:1034:GLU:O	4:B:1038:PHE:HD1	1.98	0.46
5:A:4:VAL:HG12	5:A:341:GLU:H	1.80	0.46
5:A:172:TYR:HB2	5:A:187:LEU:HD13	1.96	0.46
5:A:186:PRO:HD3	5:A:324:ASN:HB2	1.97	0.46
5:A:448:VAL:HG22	5:A:452:GLU:OE1	2.15	0.46
5:A:606:THR:HG22	5:A:610:GLY:HA3	1.96	0.46
5:A:1075:GLN:HB2	5:A:1092:VAL:CB	2.35	0.46
5:A:1147:VAL:HG11	5:A:1153:LEU:HD11	1.98	0.46
5:A:1199:ARG:O	5:A:1201:VAL:HG13	2.15	0.46
1:K:404:PHE:HB2	1:K:413:TRP:HH2	1.81	0.46
2:H:184:MET:HA	2:H:261:THR:HA	1.98	0.46
2:H:260:ALA:HB2	2:H:343:PHE:HZ	1.79	0.46
2:G:5:LEU:CD2	2:G:6:PRO:CD	2.32	0.46
1:F:140:LEU:HD23	1:F:170:ARG:HG2	1.97	0.46
1:F:367:VAL:CG2	1:F:467:TYR:HB3	2.46	0.46
1:F:398:LYS:O	1:F:473:ILE:N	2.45	0.46
4:C:221:THR:O	4:C:233:VAL:HA	2.15	0.46
4:C:255:LEU:HB3	4:C:465:TRP:CH2	2.50	0.46
4:C:267:LYS:O	4:C:305:VAL:N	2.46	0.46
4:C:603:VAL:HG13	4:C:831:PHE:HD2	1.77	0.46
4:B:652:LEU:HA	4:B:655:MET:SD	2.56	0.46
4:B:662:ILE:HD12	4:B:664:MET:HE1	1.97	0.46
4:B:851:ARG:HH22	4:B:989:SER:HB2	1.79	0.46
4:B:1057:SER:CB	4:B:1060:ALA:HB3	2.37	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:596:GLU:HA	5:A:626:TYR:CE2	2.51	0.46
5:A:633:PRO:O	5:A:662:SER:N	2.45	0.46
5:A:1075:GLN:O	5:A:1091:MET:HB3	2.15	0.46
5:A:1249:ILE:HG23	5:A:1289:LEU:HD12	1.97	0.46
1:K:190:ILE:O	1:K:194:VAL:HG23	2.15	0.46
1:K:379:VAL:HG22	1:K:449:ALA:HB2	1.96	0.46
1:K:611:ILE:C	1:K:611:ILE:CD1	2.83	0.46
1:K:650:LYS:CD	1:F:300:ILE:HD13	2.44	0.46
2:I:19:PHE:CD1	2:I:291:LYS:HE2	2.51	0.46
1:F:430:LEU:HD12	1:F:472:PHE:HE2	1.80	0.46
3:E:182:TYR:HB3	3:E:190:ILE:HG12	1.97	0.46
3:E:205:HIS:HB2	3:E:299:SER:HB2	1.96	0.46
3:E:231:GLN:C	3:E:259:HIS:HB3	2.36	0.46
4:C:636:LEU:CD2	4:C:648:ALA:HB2	2.44	0.46
4:C:705:TRP:CE2	4:C:709:ILE:HD11	2.51	0.46
4:C:1041:ALA:O	4:C:1144:TYR:N	2.47	0.46
4:C:1200:ILE:O	4:C:1200:ILE:CG1	2.63	0.46
4:B:378:PHE:HB2	4:B:390:ASN:HB3	1.98	0.46
4:B:543:LEU:HD23	4:B:822:ILE:CD1	2.45	0.46
4:B:600:TYR:HA	4:B:831:PHE:O	2.15	0.46
4:B:662:ILE:HG13	4:B:664:MET:HE3	1.98	0.46
4:B:854:ARG:HB2	4:B:857:ILE:HB	1.97	0.46
5:A:112:ASN:HD21	5:A:142:MET:HG3	1.79	0.46
5:A:419:GLN:NE2	5:A:710:SER:H	2.14	0.46
5:A:595:VAL:HA	5:A:598:LEU:HD12	1.97	0.46
5:A:971:ARG:HH11	5:A:971:ARG:HG3	1.80	0.46
1:K:434:ASP:HA	1:K:441:SER:CA	2.33	0.46
2:I:273:SER:H	2:I:281:LYS:H	1.63	0.46
2:I:315:LEU:HG	2:I:320:MET:HG3	1.96	0.46
2:H:1:MET:H2	2:H:72:ARG:HB2	1.80	0.46
2:H:97:ARG:CZ	2:H:153:LEU:HD22	2.46	0.46
2:G:220:VAL:CG2	2:G:264:ILE:HG23	2.44	0.46
2:G:292:LEU:HD22	2:G:331:ALA:HB2	1.96	0.46
1:F:46:VAL:HG11	1:F:65:ARG:NE	2.30	0.46
1:F:48:TRP:CD1	1:F:155:ALA:HB2	2.50	0.46
1:F:57:VAL:CG1	1:F:63:LEU:HG	2.43	0.46
3:E:52:LEU:HD11	3:E:281:MET:O	2.15	0.46
3:E:79:PRO:O	3:E:84:HIS:HA	2.15	0.46
3:E:189:GLU:O	3:E:193:THR:HG23	2.16	0.46
3:E:282:ASP:O	3:E:286:ILE:HG22	2.15	0.46
4:C:856:THR:HG22	4:C:942:GLN:HG3	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:849:VAL:CG1	4:B:999:ILE:HG13	2.46	0.46
5:A:18:ILE:HG22	5:A:275:PRO:CA	2.46	0.46
5:A:159:SER:HB3	5:A:164:LEU:CD1	2.44	0.46
5:A:979:ILE:HG22	5:A:981:TRP:HZ3	1.81	0.46
5:A:1042:LEU:N	5:A:1089:LEU:O	2.48	0.46
5:A:1154:MET:H	5:A:1201:VAL:HG13	1.81	0.46
1:K:451:ASN:OD1	1:K:451:ASN:N	2.49	0.46
1:K:505:VAL:CB	2:G:313:TYR:CB	2.93	0.46
2:H:141:MET:HA	2:H:147:SER:HB2	1.96	0.46
2:G:51:CYS:N	2:G:56:GLY:O	2.40	0.46
2:G:253:GLY:HA2	2:G:275:MET:SD	2.56	0.46
1:F:251:ASP:O	1:F:255:GLY:N	2.47	0.46
1:F:254:GLU:HB3	1:F:256:THR:HG23	1.98	0.46
1:F:370:LEU:HB3	1:F:452:TYR:CE1	2.50	0.46
3:E:10:THR:O	3:E:122:ASP:HA	2.15	0.46
3:E:175:VAL:HA	3:E:178:LEU:CG	2.46	0.46
4:C:418:LYS:NZ	4:C:1224:ASP:OD1	2.47	0.46
4:B:438:GLN:NE2	4:B:443:ALA:O	2.49	0.46
4:B:656:MET:HE3	4:B:660:GLU:HG3	1.98	0.46
4:B:716:PRO:CG	5:A:238:LEU:HD11	2.46	0.46
4:B:846:MET:O	4:B:1002:GLN:N	2.39	0.46
4:B:871:VAL:HG12	4:B:872:GLY:H	1.79	0.46
4:B:951:TRP:HH2	4:B:1035:TYR:HB3	1.81	0.46
4:B:1130:ILE:HG22	4:B:1160:TRP:HZ3	1.81	0.46
4:B:1231:ARG:NH2	4:B:1251:VAL:H	2.13	0.46
5:A:7:VAL:CG2	5:A:334:ILE:HG12	2.44	0.46
5:A:256:LEU:CD2	5:A:283:TYR:HB2	2.45	0.46
5:A:316:ARG:HG3	5:A:750:ARG:CD	2.46	0.46
5:A:582:VAL:HG21	5:A:588:LEU:HD23	1.96	0.46
5:A:1052:VAL:HA	5:A:1065:THR:OG1	2.16	0.46
1:K:214:SER:N	1:K:674:ALA:HB2	2.30	0.46
1:K:324:ARG:HB2	1:K:490:ASP:HA	1.98	0.46
2:I:50:VAL:CG2	2:I:57:VAL:HG22	2.33	0.46
2:H:207:SER:HB2	2:H:209:THR:HG22	1.97	0.46
2:G:3:VAL:HG23	2:G:306:TRP:HH2	1.81	0.46
2:G:296:ARG:HD3	2:G:324:TYR:CE2	2.50	0.46
1:F:399:VAL:HA	1:F:472:PHE:CA	2.42	0.46
1:F:551:LYS:HB2	1:F:604:ILE:HG21	1.97	0.46
3:E:161:ILE:HB	3:E:271:PHE:HB2	1.98	0.46
3:E:177:GLN:HA	3:E:180:MET:SD	2.47	0.46
3:E:192:TYR:OH	4:B:471:ARG:CD	2.63	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:272:VAL:HG12	3:E:328:HIS:CG	2.51	0.46
3:E:330:PHE:CD2	3:E:330:PHE:N	2.84	0.46
4:C:222:GLU:HG2	4:C:233:VAL:HG12	1.97	0.46
4:C:957:ALA:HB1	4:C:961:THR:CG2	2.46	0.46
4:B:436:ARG:HA	4:B:448:VAL:HA	1.97	0.46
4:B:746:GLN:C	5:A:155:GLN:OE1	2.54	0.46
4:B:815:ALA:N	4:B:816:PRO:CD	2.78	0.46
4:B:926:GLU:OE2	4:B:1018:SER:HA	2.16	0.46
5:A:147:LEU:HD22	5:A:161:GLY:O	2.16	0.46
5:A:163:VAL:HA	5:A:200:TYR:O	2.16	0.46
5:A:497:ILE:HG12	5:A:504:GLU:HB3	1.98	0.46
5:A:979:ILE:HG23	5:A:1021:ILE:HG12	1.98	0.46
5:A:1036:VAL:CG2	5:A:1096:ALA:HB2	2.32	0.46
1:K:199:LEU:HD23	1:K:199:LEU:H	1.81	0.46
1:K:271:ALA:HB1	1:K:272:PRO:HD2	1.97	0.46
2:I:99:MET:O	2:I:103:VAL:HG23	2.16	0.46
2:G:100:LEU:CD2	2:G:159:LEU:HG	2.42	0.46
2:G:320:MET:HA	2:G:323:TRP:HB3	1.97	0.46
1:F:142:THR:O	1:F:165:VAL:N	2.48	0.46
1:F:472:PHE:CD1	1:F:488:VAL:HG11	2.51	0.46
3:E:72:LEU:O	3:E:76:LEU:HG	2.16	0.46
3:E:180:MET:HE2	3:E:180:MET:HB3	1.86	0.46
3:E:225:VAL:HG21	3:E:414:ILE:HD13	1.98	0.46
3:E:249:GLU:HG3	3:E:249:GLU:O	2.15	0.46
4:C:378:PHE:N	4:C:378:PHE:CD1	2.83	0.46
4:C:778:ASN:OD1	4:C:780:ARG:HB3	2.16	0.46
4:B:812:GLN:HG2	4:B:813:GLN:HE21	1.81	0.46
4:B:849:VAL:HA	4:B:999:ILE:HA	1.98	0.46
4:B:1093:MET:HB2	4:B:1101:MET:HB3	1.98	0.46
4:B:1096:ASP:HB3	4:B:1100:MET:N	2.31	0.46
5:A:353:ILE:O	5:A:371:ARG:HA	2.16	0.46
5:A:421:PRO:O	5:A:421:PRO:CD	2.64	0.46
5:A:517:ALA:HB1	5:A:527:PRO:CD	2.45	0.46
5:A:826:LEU:HD12	5:A:827:ASP:H	1.80	0.46
5:A:1135:ASP:OD2	5:A:1137:THR:HG23	2.16	0.46
1:K:336:MET:HG3	1:K:366:ARG:CB	2.46	0.45
1:K:385:LYS:HB3	1:K:387:TYR:CD1	2.51	0.45
2:I:42:MET:CA	2:I:52:MET:HG2	2.47	0.45
2:H:96:LYS:HB3	2:H:159:LEU:HD21	1.97	0.45
2:H:331:ALA:HB3	2:H:332:PRO:HD3	1.98	0.45
2:G:231:ASP:CG	2:G:231:ASP:O	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:153:ARG:NH1	1:F:153:ARG:CA	2.75	0.45
1:F:199:LEU:HD23	1:F:199:LEU:H	1.82	0.45
3:E:161:ILE:HG23	3:E:273:MET:HB3	1.99	0.45
3:E:253:LEU:HD12	3:E:254:SER:N	2.31	0.45
4:C:336:LYS:CB	4:C:340:ASN:HB2	2.44	0.45
4:C:560:MET:SD	4:C:799:LYS:HD3	2.57	0.45
4:C:574:ALA:O	4:C:577:ILE:HG22	2.16	0.45
4:C:716:PRO:HB3	4:C:742:PRO:HA	1.97	0.45
4:C:1064:ASP:N	4:C:1064:ASP:OD1	2.48	0.45
4:C:1077:PHE:CE2	4:C:1096:ASP:HA	2.51	0.45
4:B:242:LYS:H	4:B:242:LYS:CD	2.23	0.45
4:B:269:VAL:HG22	4:B:305:VAL:HG23	1.98	0.45
4:B:333:HIS:HA	4:B:336:LYS:CG	2.45	0.45
4:B:519:ILE:O	4:B:523:MET:HG3	2.16	0.45
4:B:560:MET:HA	4:B:563:VAL:HG23	1.97	0.45
4:B:658:GLY:H	4:B:661:THR:HG23	1.81	0.45
4:B:1034:GLU:HB3	4:B:1037:LEU:HG	1.98	0.45
5:A:532:PRO:HB2	5:A:538:ILE:HG12	1.97	0.45
5:A:768:ARG:NH2	5:A:865:THR:OG1	2.49	0.45
5:A:1033:ASN:HB2	5:A:1038:GLN:HB3	1.98	0.45
5:A:1214:LEU:N	5:A:1214:LEU:HD23	2.31	0.45
5:A:1237:GLU:HG2	5:A:1251:ASN:O	2.17	0.45
1:K:192:LEU:O	1:K:196:GLN:HG3	2.16	0.45
1:K:490:ASP:CB	1:F:436:SER:H	2.28	0.45
1:K:566:VAL:N	1:K:567:PRO:CD	2.79	0.45
2:I:195:VAL:CG2	2:I:356:VAL:HB	2.46	0.45
2:H:100:LEU:HD22	2:H:159:LEU:HA	1.98	0.45
2:H:121:VAL:O	2:H:125:GLY:N	2.49	0.45
2:G:5:LEU:HD13	2:G:6:PRO:N	2.31	0.45
1:F:550:ILE:CG1	1:F:631:VAL:HG21	2.40	0.45
1:F:573:ALA:O	1:F:576:GLN:HG2	2.16	0.45
3:E:165:ARG:CB	3:E:269:SER:HB3	2.46	0.45
4:C:282:ALA:HB1	4:C:290:TYR:N	2.31	0.45
4:C:325:ALA:HB1	4:C:326:PRO:HD2	1.97	0.45
4:C:598:TRP:CG	4:C:742:PRO:HG3	2.51	0.45
4:C:833:VAL:CG1	4:C:834:PRO:CD	2.76	0.45
4:B:352:LEU:HB3	4:B:955:LEU:N	2.31	0.45
4:B:391:LEU:HB3	4:B:403:TYR:CE2	2.51	0.45
4:B:432:GLY:C	4:B:450:VAL:HG23	2.37	0.45
4:B:601:ASN:ND2	4:B:832:GLN:HG2	2.31	0.45
4:B:662:ILE:HG23	4:B:702:LEU:HD23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1095:ARG:HB2	4:B:1101:MET:CE	2.46	0.45
4:B:1116:GLN:HG2	4:B:1170:ILE:CG2	2.47	0.45
5:A:200:TYR:CD2	5:A:232:HIS:HB3	2.51	0.45
5:A:437:TYR:O	5:A:641:ILE:HA	2.15	0.45
5:A:892:LEU:HD12	5:A:892:LEU:O	2.15	0.45
1:K:338:PRO:HD3	1:K:411:GLU:CG	2.46	0.45
2:I:195:VAL:HB	2:I:356:VAL:HG23	1.99	0.45
2:I:326:ARG:NH1	2:I:326:ARG:CB	2.76	0.45
2:H:138:PRO:O	2:H:144:SER:HB2	2.16	0.45
2:H:253:GLY:HA2	2:H:275:MET:CE	2.46	0.45
2:G:141:MET:HG3	2:G:142:PHE:H	1.82	0.45
2:G:218:TRP:CB	2:G:266:GLY:HA2	2.46	0.45
3:E:37:TRP:CZ3	3:E:143:VAL:HG13	2.51	0.45
4:C:378:PHE:HE2	4:C:433:ARG:HB2	1.82	0.45
4:C:850:THR:O	4:C:997:LEU:HA	2.15	0.45
4:B:346:VAL:HG23	4:B:347:ARG:HG3	1.98	0.45
5:A:130:TYR:HA	5:A:133:LEU:CD1	2.45	0.45
5:A:350:TYR:CZ	5:A:372:LYS:HE2	2.52	0.45
5:A:353:ILE:N	5:A:370:VAL:O	2.48	0.45
5:A:438:TYR:CB	5:A:641:ILE:HG12	2.43	0.45
5:A:506:LEU:C	5:A:507:ARG:HD2	2.36	0.45
5:A:629:GLN:HB2	5:A:630:LYS:HE3	1.98	0.45
1:K:127:LYS:HE2	1:K:235:GLU:CD	2.36	0.45
1:K:166:ILE:HG12	1:K:167:THR:N	2.31	0.45
1:K:376:MET:CA	1:K:498:LEU:HG	2.45	0.45
1:K:609:THR:HB	1:K:618:LEU:HD11	1.99	0.45
2:I:18:ALA:HA	2:I:23:VAL:CG2	2.46	0.45
2:I:24:SER:HB2	2:I:44:VAL:HB	1.99	0.45
2:I:156:VAL:HG11	2:I:159:LEU:HB2	1.96	0.45
2:I:315:LEU:HD22	2:I:315:LEU:N	2.31	0.45
2:H:1:MET:HG2	2:H:71:HIS:HB2	1.97	0.45
2:H:6:PRO:O	2:H:314:ALA:HB1	2.16	0.45
2:H:130:GLU:HG2	2:H:362:MET:CB	2.46	0.45
2:H:220:VAL:CG1	2:H:264:ILE:HG23	2.46	0.45
2:H:302:VAL:HB	2:H:320:MET:SD	2.56	0.45
1:F:190:ILE:O	1:F:194:VAL:HG23	2.17	0.45
1:F:380:LEU:HD21	1:F:491:ALA:CB	2.46	0.45
3:E:9:LYS:CB	3:E:124:VAL:HG22	2.39	0.45
3:E:167:ASP:CB	3:E:170:MET:HE3	2.45	0.45
4:C:419:ILE:HG13	4:C:1214:SER:HB2	1.99	0.45
4:B:408:PRO:O	4:B:411:MET:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1047:ILE:CD1	4:B:1167:LEU:HD21	2.45	0.45
4:B:1131:LYS:HB2	4:B:1160:TRP:CZ2	2.51	0.45
5:A:574:VAL:CG1	5:A:612:PHE:HB2	2.46	0.45
5:A:706:ILE:CG1	5:A:757:ARG:HG2	2.45	0.45
5:A:1257:LEU:CD1	5:A:1261:TRP:HB3	2.44	0.45
1:K:374:ALA:CB	1:K:375:PRO:CD	2.72	0.45
1:K:396:GLY:N	1:K:430:LEU:O	2.41	0.45
2:I:262:THR:HB	2:I:263:PRO:HD2	1.98	0.45
1:F:471:THR:HA	1:F:488:VAL:CG2	2.45	0.45
3:E:90:ARG:HB2	3:E:107:ALA:HB2	1.98	0.45
3:E:174:ASP:HA	3:E:177:GLN:HG2	1.98	0.45
4:C:234:GLN:HG2	4:C:246:GLN:CG	2.46	0.45
4:C:508:ARG:NH2	4:C:726:VAL:HA	2.31	0.45
4:C:713:TRP:CD1	4:C:838:LEU:HD21	2.52	0.45
4:C:822:ILE:O	4:C:826:LEU:N	2.50	0.45
4:C:836:VAL:HG23	4:C:843:VAL:HG22	1.98	0.45
4:C:1151:TYR:HB3	4:C:1181:MET:CG	2.46	0.45
4:C:1151:TYR:CE1	4:C:1183:PRO:HB3	2.51	0.45
4:B:583:PRO:HA	4:B:880:ARG:CZ	2.46	0.45
4:B:1229:VAL:HG13	4:B:1236:THR:CG2	2.47	0.45
5:A:332:SER:O	5:A:335:MET:HB2	2.15	0.45
5:A:380:ARG:HH11	5:A:382:SER:HB2	1.81	0.45
5:A:599:LEU:O	5:A:603:MET:HG2	2.16	0.45
5:A:712:GLU:HG3	5:A:751:VAL:CG1	2.40	0.45
5:A:968:LYS:HD2	5:A:969:ILE:N	2.31	0.45
1:K:410:PHE:HA	1:K:413:TRP:CG	2.51	0.45
1:K:435:SER:HA	1:K:442:ILE:HG22	1.99	0.45
2:G:15:ILE:HD11	2:G:295:VAL:HG11	1.99	0.45
1:F:145:ASP:CA	1:F:161:LYS:HA	2.38	0.45
1:F:317:LYS:O	1:F:532:PRO:HB3	2.16	0.45
1:F:399:VAL:HG12	1:F:472:PHE:CG	2.51	0.45
4:C:320:SER:HB2	4:C:368:ASP:HB2	1.99	0.45
4:C:1274:VAL:HG13	4:C:1275:PRO:HD2	1.99	0.45
4:B:811:LEU:HA	4:B:815:ALA:HB2	1.97	0.45
4:B:859:GLN:HB2	4:B:862:LEU:HG	1.98	0.45
5:A:421:PRO:HB3	5:A:699:ASP:HA	1.98	0.45
5:A:429:ILE:CG1	5:A:475:ALA:HB1	2.46	0.45
5:A:619:PRO:HB3	5:A:651:LEU:CD1	2.46	0.45
5:A:768:ARG:O	5:A:862:ASN:N	2.43	0.45
5:A:920:ASN:O	5:A:1023:ILE:N	2.42	0.45
5:A:1090:ASP:C	5:A:1091:MET:HG3	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:1156:PHE:HB3	5:A:1165:ILE:HA	1.99	0.45
5:A:1194:LEU:CB	5:A:1196:TYR:HE1	2.29	0.45
1:K:523:THR:O	1:K:527:LEU:N	2.34	0.45
1:K:532:PRO:HA	1:K:537:ARG:NH1	2.31	0.45
1:K:571:GLN:HB3	1:K:623:ASN:OD1	2.16	0.45
2:I:51:CYS:CB	2:I:54:CYS:HG	2.30	0.45
2:I:131:LEU:O	2:I:361:PRO:HD2	2.17	0.45
2:H:3:VAL:HG11	2:H:54:CYS:SG	2.57	0.45
2:H:197:LEU:HB3	2:H:201:ALA:C	2.37	0.45
2:H:293:LYS:HA	2:H:324:TYR:OH	2.17	0.45
2:G:48:ALA:HB1	2:G:57:VAL:HG13	1.99	0.45
2:G:268:MET:HE3	2:G:286:ILE:HD11	1.98	0.45
3:E:21:ILE:HA	3:E:25:LEU:HD12	1.98	0.45
3:E:22:ASN:HD22	3:E:22:ASN:C	2.20	0.45
3:E:311:ALA:HA	3:E:314:ARG:CG	2.40	0.45
4:C:407:TYR:HD2	4:C:431:VAL:CG2	2.29	0.45
4:C:821:VAL:O	4:C:825:MET:HG2	2.16	0.45
4:C:1085:PHE:CG	4:B:285:PHE:CD1	2.93	0.45
4:C:1136:ARG:NH2	4:C:1200:ILE:HD13	2.31	0.45
4:B:317:ASP:OD1	4:B:319:ASP:N	2.46	0.45
4:B:607:VAL:N	4:B:875:LEU:O	2.50	0.45
4:B:650:MET:HA	4:B:653:ALA:HB3	1.99	0.45
5:A:201:SER:HB3	5:A:207:LEU:CD2	2.47	0.45
5:A:207:LEU:HD13	5:A:233:TYR:CE1	2.51	0.45
5:A:640:LEU:HD23	5:A:653:PHE:HA	1.98	0.45
5:A:832:PRO:HA	5:A:854:THR:HB	1.98	0.45
5:A:965:ALA:HA	5:A:968:LYS:HE3	1.97	0.45
5:A:1051:ASP:CB	5:A:1105:VAL:HA	2.40	0.45
5:A:1053:PHE:HA	5:A:1104:LEU:HD12	1.97	0.45
5:A:1155:THR:HG22	5:A:1198:ILE:HA	1.98	0.45
1:K:197:THR:OG1	1:F:563:PRO:CA	2.64	0.45
1:K:250:MET:HG3	1:K:255:GLY:HA2	1.99	0.45
1:K:323:VAL:CG1	1:K:366:ARG:HD2	2.46	0.45
1:K:353:THR:HG22	2:H:61:LEU:CD2	2.44	0.45
1:K:407:LYS:HA	1:K:463:GLU:C	2.37	0.45
1:K:469:LEU:HD11	1:K:487:ASP:HB3	1.98	0.45
1:K:615:ALA:O	1:K:619:SER:N	2.49	0.45
2:H:37:SER:HB2	2:H:90:ARG:NE	2.31	0.45
2:H:42:MET:N	2:H:52:MET:HG2	2.32	0.45
2:H:97:ARG:NH2	2:H:153:LEU:HB3	2.32	0.45
1:F:143:TYR:CE2	1:F:164:PRO:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:313:ALA:HA	1:F:538:CYS:SG	2.56	0.45
1:F:375:PRO:CA	1:F:454:PRO:HD3	2.44	0.45
3:E:244:ARG:CG	3:E:336:VAL:HG13	2.47	0.45
3:E:334:ARG:HD2	3:E:334:ARG:HA	1.35	0.45
4:C:255:LEU:HB3	4:C:465:TRP:CZ2	2.52	0.45
4:C:359:LEU:HD12	4:C:938:ILE:CG2	2.46	0.45
4:C:461:ILE:CA	4:C:464:ARG:HD2	2.34	0.45
4:C:503:ARG:HG2	4:C:1265:PRO:HD3	1.98	0.45
4:C:549:LEU:HD12	4:C:890:LYS:O	2.17	0.45
4:C:641:ASP:HB3	4:C:644:ALA:HB2	1.98	0.45
4:C:982:MET:HB2	4:C:985:GLU:HG2	1.94	0.45
4:C:1084:SER:HB3	4:C:1093:MET:O	2.16	0.45
4:B:593:VAL:CG1	4:B:875:LEU:HD21	2.47	0.45
4:B:777:ASP:HA	4:B:782:GLN:NE2	2.32	0.45
5:A:112:ASN:OD1	5:A:114:PHE:HB2	2.17	0.45
5:A:234:LEU:HD11	5:A:283:TYR:CE2	2.52	0.45
5:A:350:TYR:HD1	5:A:350:TYR:O	2.00	0.45
5:A:1188:ASP:HA	5:A:1229:PHE:O	2.17	0.45
5:A:1223:PRO:CG	5:A:1226:GLU:HB3	2.36	0.45
5:A:1225:ASN:O	5:A:1281:PRO:HB3	2.17	0.45
5:A:1238:TRP:HE3	5:A:1286:LEU:HB3	1.82	0.45
1:K:47:PRO:HA	1:K:148:VAL:CA	2.36	0.45
1:K:293:VAL:HG13	1:K:632:LYS:HG2	1.99	0.45
1:K:395:ASN:C	1:K:395:ASN:OD1	2.55	0.45
1:K:435:SER:N	1:K:440:GLN:O	2.43	0.45
1:K:584:ARG:HE	2:G:70:HIS:CD2	2.16	0.45
2:I:94:HIS:CE1	2:I:153:LEU:HD23	2.52	0.45
2:G:44:VAL:HA	2:G:48:ALA:O	2.17	0.45
2:G:288:GLY:HA2	2:G:291:LYS:CG	2.47	0.45
2:G:315:LEU:N	2:G:315:LEU:HD22	2.32	0.45
2:G:326:ARG:CZ	2:G:326:ARG:HB3	2.47	0.45
1:F:49:ILE:HB	1:F:66:MET:CG	2.42	0.45
1:F:431:TYR:HB3	1:F:444:ALA:HB3	1.99	0.45
3:E:272:VAL:CG1	3:E:328:HIS:HB2	2.45	0.45
4:C:851:ARG:HD3	4:C:994:MET:CE	2.47	0.45
4:C:1121:TYR:CE1	4:B:414:PRO:HB2	2.50	0.45
4:B:254:ARG:HG2	4:B:316:PHE:CD2	2.52	0.45
5:A:278:ARG:HB2	5:A:281:GLN:OE1	2.16	0.45
5:A:278:ARG:HH21	5:A:281:GLN:HE22	1.64	0.45
5:A:487:THR:CG2	5:A:529:VAL:HG13	2.46	0.45
5:A:498:ASP:HB2	5:A:505:TYR:CD2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:686:THR:HG22	5:A:689:ARG:NH2	2.32	0.45
5:A:992:ARG:O	5:A:996:LEU:HD23	2.17	0.45
1:K:101:VAL:HG11	1:F:265:VAL:CB	2.43	0.45
1:K:371:ASP:O	1:K:372:GLN:HB2	2.17	0.45
1:K:431:TYR:CD2	1:K:431:TYR:C	2.91	0.45
1:K:517:GLU:OE2	1:K:517:GLU:CA	2.65	0.45
2:H:299:VAL:HA	2:H:320:MET:HE1	1.99	0.45
2:G:75:GLN:HE21	2:G:75:GLN:HB2	1.48	0.45
1:F:105:GLU:HG2	1:F:106:HIS:N	2.32	0.45
1:F:293:VAL:CG1	1:F:632:LYS:HG2	2.41	0.45
3:E:38:GLN:O	3:E:41:GLN:HB2	2.16	0.45
4:C:528:ASN:HD21	4:C:530:THR:HB	1.83	0.45
4:C:633:ALA:O	4:C:637:PRO:HD3	2.16	0.45
4:C:685:PRO:HD2	4:C:688:PHE:HB3	1.98	0.45
4:C:839:ASP:CG	4:C:842:ARG:HB2	2.37	0.45
4:C:1246:GLN:CB	4:C:1250:VAL:HB	2.47	0.45
4:C:1260:TYR:N	4:C:1260:TYR:HD1	2.14	0.45
4:B:810:TYR:HB2	4:B:891:TYR:CE1	2.49	0.45
4:B:837:ARG:CB	5:A:238:LEU:HD13	2.42	0.45
4:B:1131:LYS:HD2	4:B:1160:TRP:CE2	2.51	0.45
5:A:163:VAL:HG11	5:A:210:PHE:CE2	2.52	0.45
5:A:242:VAL:CG2	5:A:248:ILE:HG12	2.47	0.45
5:A:813:PHE:CZ	5:A:989:ARG:HB2	2.52	0.45
5:A:977:CYS:O	5:A:977:CYS:SG	2.75	0.45
5:A:1035:ILE:HB	5:A:1038:GLN:HG3	1.98	0.45
5:A:1044:ILE:HD12	5:A:1087:TRP:HB2	1.97	0.45
5:A:1229:PHE:CG	5:A:1268:ILE:HD12	2.51	0.45
1:K:48:TRP:CD1	1:K:152:ALA:HA	2.52	0.44
1:K:205:ILE:HG23	1:K:205:ILE:O	2.17	0.44
1:K:515:PRO:HB3	1:K:539:MET:HE1	1.99	0.44
2:H:174:ILE:HG12	2:H:363:ILE:HD13	1.98	0.44
2:H:224:ASP:HB2	2:H:357:MET:HG2	1.98	0.44
2:G:129:VAL:C	2:G:130:GLU:HG2	2.37	0.44
1:F:117:ALA:O	1:F:120:PHE:HB2	2.16	0.44
1:F:324:ARG:CB	1:F:490:ASP:HA	2.47	0.44
1:F:404:PHE:HB2	1:F:413:TRP:HH2	1.82	0.44
3:E:3:ARG:HD3	3:E:144:TYR:HE2	1.82	0.44
3:E:316:ILE:HG22	3:E:319:TRP:N	2.24	0.44
4:C:301:VAL:HG13	4:C:1209:LEU:CD1	2.43	0.44
4:C:413:THR:HB	4:C:420:CYS:CB	2.47	0.44
4:C:427:VAL:HG22	4:C:1235:LEU:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:687:CYS:SG	4:C:688:PHE:N	2.90	0.44
4:C:1254:TYR:C	4:C:1254:TYR:CD2	2.90	0.44
4:B:355:ARG:NH2	4:B:950:ASP:HA	2.32	0.44
4:B:890:LYS:HB3	4:B:890:LYS:HE2	1.61	0.44
4:B:914:VAL:O	4:B:918:LEU:HG	2.17	0.44
4:B:1131:LYS:HB2	4:B:1160:TRP:CE2	2.52	0.44
5:A:199:PHE:HD1	5:A:199:PHE:H	1.66	0.44
5:A:422:LEU:CD1	5:A:792:PRO:HG2	2.45	0.44
5:A:437:TYR:HB3	5:A:673:PHE:HE1	1.82	0.44
5:A:494:TYR:CE2	5:A:542:PRO:HD2	2.52	0.44
5:A:525:ASP:HB3	5:A:556:ARG:HE	1.82	0.44
5:A:636:THR:OG1	5:A:660:GLN:HB2	2.17	0.44
5:A:743:ILE:HA	5:A:751:VAL:O	2.16	0.44
5:A:757:ARG:HG3	5:A:757:ARG:NH1	2.29	0.44
5:A:873:LEU:HG	5:A:895:ALA:HB1	1.98	0.44
5:A:1128:ASP:OD1	5:A:1128:ASP:N	2.49	0.44
1:K:201:THR:HB	1:F:633:THR:HG21	1.99	0.44
1:K:505:VAL:CG1	2:G:313:TYR:CG	3.00	0.44
2:I:7:ASN:O	2:I:11:ILE:HG13	2.16	0.44
2:I:70:HIS:CD2	1:F:584:ARG:CZ	2.99	0.44
2:I:72:ARG:C	2:I:72:ARG:HD3	2.36	0.44
2:I:75:GLN:CG	1:F:581:TYR:CE1	2.99	0.44
2:H:171:ASN:ND2	2:H:259:ARG:HD2	2.31	0.44
2:H:206:PHE:HE2	2:H:267:LYS:HB3	1.83	0.44
2:H:323:TRP:HA	2:H:326:ARG:NH2	2.33	0.44
2:G:127:SER:OG	2:G:362:MET:HB2	2.17	0.44
2:G:133:TRP:HB2	2:G:220:VAL:CB	2.46	0.44
1:F:566:VAL:HG23	1:F:567:PRO:HD3	1.99	0.44
1:F:588:PRO:HD2	1:F:591:ILE:HD12	1.99	0.44
3:E:74:GLY:HA3	3:E:91:PHE:CZ	2.51	0.44
3:E:226:GLY:CA	3:E:339:PHE:HD1	2.31	0.44
4:C:271:ILE:HD13	4:C:301:VAL:HG12	1.99	0.44
4:C:620:VAL:HG13	4:C:655:MET:O	2.17	0.44
4:C:685:PRO:O	4:C:689:MET:N	2.45	0.44
4:C:690:ASN:ND2	4:C:693:LEU:HG	2.33	0.44
4:C:731:ASN:HB3	4:C:734:THR:O	2.17	0.44
4:C:1009:PHE:N	4:C:1009:PHE:CD1	2.84	0.44
4:C:1044:ASP:HA	4:C:1141:MET:CG	2.43	0.44
4:C:1233:ASN:HB2	4:C:1246:GLN:NE2	2.32	0.44
4:B:257:THR:O	4:B:372:LEU:HB2	2.17	0.44
4:B:257:THR:O	4:B:372:LEU:N	2.39	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:327:PRO:HB2	4:B:1148:LEU:HG	1.99	0.44
4:B:400:GLU:H	4:B:400:GLU:CD	2.20	0.44
4:B:1096:ASP:HB2	4:B:1100:MET:O	2.17	0.44
5:A:245:PRO:HA	5:A:246:PRO:HA	1.79	0.44
5:A:498:ASP:N	5:A:503:LYS:O	2.42	0.44
5:A:612:PHE:C	5:A:612:PHE:CD1	2.90	0.44
5:A:1138:ILE:HG13	5:A:1229:PHE:CZ	2.51	0.44
5:A:1236:ARG:O	5:A:1238:TRP:HD1	1.99	0.44
1:K:98:GLU:HB3	1:K:168:PRO:CD	2.26	0.44
1:K:137:TYR:O	1:K:140:LEU:HB2	2.17	0.44
1:K:284:LYS:HA	1:K:284:LYS:HE3	1.98	0.44
1:K:410:PHE:HA	1:K:413:TRP:CE2	2.52	0.44
2:H:109:MET:HE3	2:H:109:MET:HB3	1.66	0.44
2:H:180:VAL:HG11	2:H:243:VAL:HG12	2.00	0.44
3:E:144:TYR:HA	3:E:147:LEU:HD12	1.99	0.44
3:E:196:GLN:OE1	4:B:508:ARG:CB	2.65	0.44
4:C:703:ARG:O	4:C:707:GLU:HG3	2.18	0.44
4:B:439:MET:SD	4:B:440:MET:HG2	2.57	0.44
4:B:985:GLU:CA	4:B:985:GLU:OE1	2.64	0.44
4:B:1034:GLU:HB3	4:B:1037:LEU:CG	2.47	0.44
5:A:970:CYS:CB	5:A:979:ILE:HD11	2.48	0.44
5:A:981:TRP:CE3	5:A:981:TRP:N	2.85	0.44
1:K:504:THR:HB	2:G:316:GLY:HA2	1.99	0.44
2:I:2:GLU:OE2	2:I:72:ARG:NH1	2.50	0.44
2:I:47:GLY:HA2	2:I:61:LEU:CG	2.47	0.44
2:I:70:HIS:CB	1:F:584:ARG:N	2.80	0.44
2:H:7:ASN:HA	2:H:314:ALA:O	2.18	0.44
3:E:204:GLU:H	3:E:204:GLU:HG3	1.44	0.44
4:C:307:HIS:O	4:C:310:TRP:HB3	2.17	0.44
4:C:318:ARG:HG2	4:C:371:TYR:CZ	2.52	0.44
4:C:383:THR:OG1	4:C:410:ARG:NH2	2.50	0.44
4:C:622:SER:HB3	4:C:625:ASN:HD22	1.83	0.44
4:C:635:ALA:HA	4:C:638:LEU:CD1	2.47	0.44
4:C:803:ILE:HG21	4:C:887:LEU:HG	1.98	0.44
4:C:1121:TYR:CD2	4:B:414:PRO:HB2	2.53	0.44
4:C:1126:PHE:HB2	4:C:1130:ILE:HG13	1.99	0.44
4:B:379:SER:O	4:B:390:ASN:HA	2.17	0.44
4:B:823:ALA:CA	4:B:826:LEU:HD23	2.39	0.44
5:A:111:VAL:HG23	5:A:136:LEU:O	2.17	0.44
5:A:290:GLN:NE2	5:A:290:GLN:N	2.60	0.44
5:A:330:PHE:CE2	5:A:334:ILE:HD11	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:550:PHE:HA	5:A:558:ALA:N	2.32	0.44
5:A:776:ASP:OD2	5:A:777:PRO:CD	2.66	0.44
5:A:837:LEU:HD12	5:A:867:PHE:HZ	1.82	0.44
5:A:1190:ALA:O	5:A:1194:LEU:HG	2.17	0.44
2:I:6:PRO:HD3	2:I:57:VAL:HG23	2.00	0.44
2:I:174:ILE:HD13	2:I:181:PRO:HG3	1.99	0.44
2:I:201:ALA:HB1	2:I:221:MET:CE	2.48	0.44
2:H:354:TYR:HB3	2:H:355:PRO:HD2	1.98	0.44
2:G:5:LEU:HB2	2:G:306:TRP:CE3	2.52	0.44
2:G:19:PHE:CE1	2:G:291:LYS:HB3	2.53	0.44
2:G:218:TRP:CA	2:G:266:GLY:HA2	2.47	0.44
3:E:130:TYR:CE2	3:E:132:PHE:HD1	2.35	0.44
3:E:387:PRO:HA	3:E:390:THR:HG23	1.99	0.44
4:C:224:ILE:HG23	4:C:1270:VAL:HG13	1.99	0.44
4:C:313:ASN:C	4:C:313:ASN:OD1	2.56	0.44
4:C:605:THR:O	4:C:875:LEU:N	2.50	0.44
4:C:635:ALA:CA	4:C:638:LEU:HG	2.40	0.44
4:C:690:ASN:HB3	4:C:693:LEU:HG	1.99	0.44
4:C:1149:HIS:O	4:C:1181:MET:HA	2.18	0.44
4:B:836:VAL:O	4:B:836:VAL:HG23	2.17	0.44
4:B:837:ARG:CB	5:A:238:LEU:HB3	2.47	0.44
4:B:844:PRO:HA	4:B:1003:GLN:HA	1.99	0.44
4:B:851:ARG:HH22	4:B:989:SER:CB	2.31	0.44
4:B:1175:ILE:HB	4:B:1176:PRO:HD2	1.99	0.44
4:B:1260:TYR:HB3	4:B:1262:TYR:CE2	2.53	0.44
5:A:15:SER:HB3	5:A:359:SER:HB2	1.99	0.44
5:A:66:LEU:HD21	5:A:124:LEU:HG	2.00	0.44
5:A:456:LEU:HA	5:A:678:PHE:CE2	2.47	0.44
5:A:458:ASP:OD2	5:A:458:ASP:N	2.49	0.44
5:A:506:LEU:HD23	5:A:506:LEU:HA	1.76	0.44
5:A:513:ALA:O	5:A:575:TYR:N	2.45	0.44
5:A:734:VAL:HB	5:A:737:ALA:HB3	1.99	0.44
5:A:1019:MET:HE3	5:A:1021:ILE:HD11	2.00	0.44
2:H:315:LEU:HB3	2:H:320:MET:HA	1.99	0.44
1:F:376:MET:C	1:F:498:LEU:HG	2.38	0.44
3:E:258:ASN:HB2	4:C:854:ARG:NE	2.10	0.44
4:C:600:TYR:HE2	4:C:828:PHE:CD2	2.35	0.44
4:C:861:ALA:HA	4:B:443:ALA:HB3	1.99	0.44
4:C:942:GLN:OE1	4:C:942:GLN:HA	2.18	0.44
4:C:985:GLU:HA	4:C:988:LEU:HG	1.98	0.44
4:C:1066:VAL:HG12	4:C:1200:ILE:HD12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1104:PHE:HB2	4:C:1129:TRP:CD2	2.52	0.44
4:B:598:TRP:CD2	4:B:742:PRO:HG3	2.52	0.44
4:B:1211:CYS:HA	4:B:1225:LYS:HG3	1.99	0.44
4:B:1231:ARG:HG2	4:B:1250:VAL:CG1	2.47	0.44
5:A:421:PRO:O	5:A:421:PRO:HD2	2.18	0.44
5:A:637:SER:CB	5:A:656:PHE:HB2	2.40	0.44
5:A:990:TRP:HZ2	5:A:1006:ILE:HG23	1.83	0.44
5:A:1068:VAL:CG1	5:A:1076:VAL:HB	2.47	0.44
5:A:1138:ILE:HG13	5:A:1229:PHE:HZ	1.81	0.44
5:A:1156:PHE:CD1	5:A:1199:ARG:HD3	2.52	0.44
1:K:387:TYR:HH	1:K:490:ASP:HB3	1.83	0.44
2:I:51:CYS:HB3	2:I:54:CYS:SG	2.58	0.44
2:I:181:PRO:HB3	2:I:183:PHE:CZ	2.53	0.44
2:I:299:VAL:HG13	2:I:320:MET:HB3	1.98	0.44
2:H:94:HIS:CE1	2:H:153:LEU:HD23	2.53	0.44
2:H:192:PHE:N	2:H:192:PHE:CD2	2.85	0.44
2:H:225:TYR:O	2:H:228:LEU:HB3	2.18	0.44
2:H:315:LEU:O	2:H:323:TRP:HB2	2.18	0.44
2:G:131:LEU:O	2:G:360:ASP:HB3	2.18	0.44
2:G:238:TYR:CE1	2:G:242:LEU:HD12	2.52	0.44
3:E:178:LEU:HD23	4:B:477:THR:CG2	2.25	0.44
3:E:274:PRO:HB3	3:E:330:PHE:CE1	2.53	0.44
3:E:330:PHE:HA	3:E:407:THR:HA	2.00	0.44
4:C:282:ALA:HA	4:C:290:TYR:O	2.17	0.44
4:C:553:PRO:HA	4:C:556:ILE:HD12	1.98	0.44
4:C:812:GLN:O	4:C:816:PRO:HG2	2.17	0.44
4:B:716:PRO:HG3	5:A:238:LEU:HD11	1.98	0.44
4:B:1046:ILE:HA	4:B:1138:ARG:HA	1.99	0.44
4:B:1048:GLY:O	4:B:1198:TYR:HA	2.17	0.44
5:A:58:GLN:HG2	5:A:60:PHE:CZ	2.53	0.44
5:A:119:LEU:HD23	5:A:119:LEU:C	2.36	0.44
5:A:171:LYS:HB3	5:A:190:LYS:HG3	1.99	0.44
5:A:209:ARG:HG2	5:A:209:ARG:HH11	1.83	0.44
5:A:968:LYS:O	5:A:972:THR:HG23	2.18	0.44
1:K:47:PRO:CA	1:K:148:VAL:HG22	2.47	0.44
1:K:337:ILE:HB	1:K:410:PHE:CE2	2.53	0.44
1:K:370:LEU:HD11	1:K:403:VAL:HG22	1.99	0.44
1:K:379:VAL:HG22	1:K:449:ALA:HB1	2.00	0.44
2:I:196:ARG:CZ	2:I:355:PRO:HD3	2.47	0.44
2:G:100:LEU:HD13	2:G:163:LEU:CG	2.48	0.44
2:G:265:LEU:O	2:G:268:MET:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:173:MET:O	1:F:173:MET:HE2	2.18	0.44
1:F:433:GLU:N	1:F:442:ILE:O	2.44	0.44
3:E:174:ASP:O	3:E:178:LEU:HG	2.16	0.44
4:C:261:GLY:CA	4:C:313:ASN:H	2.30	0.44
4:C:447:TRP:HA	4:C:1260:TYR:HA	2.00	0.44
4:B:483:LEU:HD12	4:B:1271:VAL:HG11	2.00	0.44
4:B:678:PHE:CD2	4:B:683:THR:HB	2.52	0.44
4:B:864:LEU:CD2	4:B:1000:GLN:HB3	2.48	0.44
4:B:1069:ARG:HG2	4:B:1109:ILE:CG2	2.40	0.44
5:A:5:TRP:HA	5:A:338:GLY:CA	2.48	0.44
5:A:279:LEU:HB3	5:A:361:VAL:HG13	1.99	0.44
5:A:632:LEU:HD21	5:A:666:TRP:CH2	2.53	0.44
5:A:840:ILE:HD12	5:A:840:ILE:O	2.18	0.44
5:A:990:TRP:HA	5:A:993:LEU:HG	1.99	0.44
1:K:122:ARG:HB2	1:K:122:ARG:CZ	2.48	0.44
1:K:173:MET:CE	1:K:177:SER:HB3	2.48	0.44
2:H:181:PRO:HA	2:H:362:MET:O	2.17	0.44
2:G:40:PRO:HG2	2:G:82:TYR:HE1	1.83	0.44
2:G:198:GLU:N	2:G:201:ALA:HB3	2.23	0.44
1:F:409:PRO:CG	1:F:412:LEU:HD12	2.47	0.44
1:F:525:GLU:H	1:F:525:GLU:CD	2.22	0.44
4:C:332:ILE:HG12	4:C:348:GLY:N	2.31	0.44
4:C:754:THR:HB	4:C:804:LYS:CB	2.47	0.44
4:C:839:ASP:O	4:C:843:VAL:HG23	2.18	0.44
4:B:361:MET:HE3	4:B:362:LEU:HD23	1.99	0.44
4:B:376:THR:HG21	4:B:392:ARG:HE	1.83	0.44
4:B:455:ASP:OD2	4:B:458:THR:HG23	2.16	0.44
4:B:720:ARG:HA	4:B:737:GLU:O	2.18	0.44
4:B:755:LEU:HD21	4:B:757:PHE:CE2	2.53	0.44
4:B:806:MET:HG2	4:B:890:LYS:HA	2.00	0.44
4:B:1104:PHE:HA	4:B:1108:TRP:CZ2	2.53	0.44
5:A:743:ILE:HG13	5:A:752:LEU:HB2	1.99	0.44
5:A:826:LEU:HD13	5:A:847:THR:CG2	2.48	0.44
5:A:994:ALA:CB	5:A:1001:LEU:HD21	2.46	0.44
5:A:1045:PRO:HA	5:A:1086:GLU:CG	2.47	0.44
5:A:1197:TYR:CA	5:A:1213:PRO:HA	2.40	0.44
1:K:143:TYR:CD2	1:K:164:PRO:HG3	2.53	0.43
1:K:203:VAL:CG2	1:K:208:VAL:HG13	2.48	0.43
1:K:393:ASP:O	1:K:397:LYS:HG2	2.17	0.43
1:K:453:GLU:HB2	1:K:456:GLN:NE2	2.32	0.43
1:K:559:ASP:OD1	1:K:598:ARG:HG3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:559:ASP:CG	1:K:598:ARG:HE	2.22	0.43
2:I:100:LEU:HD13	2:I:163:LEU:HG	1.99	0.43
2:G:342:MET:HB3	2:G:342:MET:HE2	1.85	0.43
1:F:380:LEU:HD12	1:F:493:LEU:HB2	1.99	0.43
1:F:398:LYS:HA	1:F:428:VAL:O	2.16	0.43
1:F:401:PHE:CE2	1:F:470:ALA:HB2	2.53	0.43
1:F:405:GLN:HG2	1:F:466:TYR:CD2	2.53	0.43
1:F:514:VAL:CG1	1:F:517:GLU:HG2	2.48	0.43
3:E:273:MET:HG2	3:E:327:LEU:CB	2.46	0.43
4:C:451:PHE:HA	4:C:1256:VAL:HA	2.00	0.43
4:C:754:THR:HB	4:C:804:LYS:CG	2.48	0.43
4:C:822:ILE:HA	4:C:825:MET:HB2	1.99	0.43
4:C:1041:ALA:HB3	4:C:1144:TYR:CD1	2.53	0.43
4:C:1170:ILE:CA	4:C:1176:PRO:HD3	2.46	0.43
4:B:473:ASN:ND2	4:B:504:LEU:HA	2.33	0.43
4:B:544:GLN:HA	4:B:592:ARG:HH21	1.82	0.43
4:B:644:ALA:N	4:B:645:PRO:CD	2.81	0.43
4:B:998:ALA:HB1	4:B:1012:ILE:HD13	2.00	0.43
5:A:391:PRO:HA	5:A:788:LEU:HD12	1.99	0.43
5:A:640:LEU:HD21	5:A:653:PHE:HD1	1.83	0.43
5:A:825:VAL:CB	5:A:846:VAL:HG12	2.46	0.43
5:A:828:LEU:HD13	5:A:872:TYR:HE1	1.82	0.43
5:A:976:ASN:HB3	5:A:1025:GLY:O	2.18	0.43
5:A:1222:LEU:HD22	5:A:1228:LEU:HD13	2.00	0.43
1:K:339:LYS:O	1:K:340:THR:HB	2.18	0.43
1:K:409:PRO:CD	1:K:412:LEU:HB2	2.48	0.43
1:K:453:GLU:N	1:K:453:GLU:OE2	2.51	0.43
1:K:653:SER:O	1:K:657:ILE:HG13	2.18	0.43
2:H:263:PRO:HA	2:H:269:PRO:N	2.33	0.43
2:G:181:PRO:HB3	2:G:183:PHE:CE1	2.53	0.43
3:E:3:ARG:HD3	3:E:144:TYR:CE2	2.53	0.43
3:E:304:ILE:HG22	3:E:309:VAL:CG1	2.48	0.43
4:C:301:VAL:HG11	4:C:1150:TYR:OH	2.18	0.43
4:C:466:MET:CE	4:C:469:LEU:HB2	2.48	0.43
4:C:479:ILE:O	4:C:483:LEU:HG	2.18	0.43
4:C:602:GLY:N	4:C:831:PHE:O	2.51	0.43
4:C:663:PRO:O	4:C:687:CYS:SG	2.73	0.43
4:C:732:LEU:HB3	4:C:1011:VAL:CG1	2.40	0.43
4:C:763:ASN:ND2	4:C:767:ARG:HG2	2.33	0.43
4:B:433:ARG:CD	4:B:436:ARG:HD3	2.48	0.43
4:B:503:ARG:HB3	4:B:1265:PRO:CD	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:509:ILE:CD1	4:B:918:LEU:HB3	2.48	0.43
4:B:678:PHE:HD2	4:B:683:THR:HB	1.83	0.43
4:B:748:ALA:HB2	4:B:813:GLN:OE1	2.18	0.43
4:B:1082:ARG:N	4:B:1095:ARG:HB3	2.25	0.43
5:A:264:PHE:CD1	5:A:314:LEU:HD21	2.53	0.43
5:A:642:LYS:HD2	5:A:643:PRO:N	2.34	0.43
1:K:303:SER:O	1:K:515:PRO:HD2	2.18	0.43
1:K:323:VAL:CB	1:K:489:TRP:HB3	2.43	0.43
1:K:345:PHE:O	1:K:360:ASN:HA	2.18	0.43
2:H:142:PHE:HA	2:H:216:LEU:O	2.18	0.43
2:G:22:ARG:CZ	2:G:22:ARG:CB	2.96	0.43
1:F:143:TYR:CD2	1:F:164:PRO:HG3	2.53	0.43
1:F:629:GLN:HA	1:F:632:LYS:HD3	1.99	0.43
3:E:7:LEU:HB3	3:E:125:TYR:O	2.17	0.43
3:E:176:ASN:O	3:E:180:MET:HG3	2.19	0.43
4:C:283:TYR:HB2	4:C:290:TYR:HD1	1.83	0.43
4:C:394:LEU:HA	4:C:394:LEU:HD23	1.70	0.43
4:C:613:TYR:H	4:C:613:TYR:HD1	1.66	0.43
4:C:1094:ILE:O	4:C:1094:ILE:HG23	2.18	0.43
4:B:458:THR:O	4:B:462:ARG:HG3	2.18	0.43
4:B:1033:HIS:NE2	4:B:1248:PRO:HG2	2.33	0.43
5:A:687:ILE:HG21	5:A:995:LEU:HD13	1.99	0.43
5:A:779:SER:O	5:A:783:GLN:HG2	2.18	0.43
5:A:903:PHE:CB	5:A:961:SER:HB3	2.41	0.43
2:I:127:SER:HA	2:I:364:LEU:CB	2.47	0.43
2:I:263:PRO:HA	2:I:269:PRO:N	2.33	0.43
2:H:5:LEU:HD22	2:H:6:PRO:CD	2.46	0.43
2:G:162:LYS:HB3	2:G:166:TYR:CZ	2.53	0.43
1:F:336:MET:HA	1:F:366:ARG:HA	1.99	0.43
3:E:13:PHE:CE1	3:E:19:VAL:HA	2.53	0.43
3:E:350:THR:OG1	3:E:353:GLN:HG3	2.18	0.43
3:E:414:ILE:O	3:E:417:LEU:HB2	2.18	0.43
4:C:846:MET:HE2	4:C:869:THR:HA	2.00	0.43
4:C:1002:GLN:HA	4:C:1008:THR:HA	1.99	0.43
4:C:1036:ASN:O	4:C:1036:ASN:ND2	2.52	0.43
4:C:1102:VAL:HB	4:C:1103:PRO:HD2	2.01	0.43
4:B:333:HIS:O	4:B:337:GLN:HB2	2.18	0.43
4:B:504:LEU:N	4:B:1263:GLU:O	2.48	0.43
4:B:674:ARG:H	4:B:674:ARG:CD	2.31	0.43
4:B:750:VAL:HG12	4:B:752:THR:H	1.84	0.43
4:B:751:THR:HA	4:B:897:THR:OG1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:1193:ALA:HB1	4:B:1194:PRO:HD2	2.00	0.43
5:A:115:VAL:HG12	5:A:136:LEU:CD1	2.48	0.43
5:A:485:LYS:HE3	5:A:643:PRO:CG	2.47	0.43
5:A:950:ARG:HH21	5:A:952:PRO:HB3	1.82	0.43
5:A:982:VAL:HB	5:A:1013:TYR:OH	2.17	0.43
1:K:392:TRP:CE3	1:K:397:LYS:HE2	2.53	0.43
1:K:399:VAL:HG12	1:K:472:PHE:CA	2.45	0.43
1:F:345:PHE:O	1:F:361:LEU:N	2.34	0.43
1:F:391:SER:HB3	1:F:482:ASN:HA	2.00	0.43
3:E:201:ARG:NH1	4:B:724:PRO:HB2	2.33	0.43
3:E:230:GLN:O	3:E:233:THR:HG23	2.18	0.43
4:C:261:GLY:HA3	4:C:312:SER:HA	2.00	0.43
4:C:301:VAL:HG23	4:C:1185:SER:OG	2.19	0.43
4:B:408:PRO:HB2	4:B:423:VAL:HG22	1.99	0.43
4:B:485:GLU:O	4:B:488:GLN:NE2	2.51	0.43
4:B:1062:PRO:HG2	4:B:1065:LEU:HB2	2.01	0.43
5:A:813:PHE:HZ	5:A:989:ARG:CZ	2.31	0.43
5:A:825:VAL:CG2	5:A:846:VAL:HG12	2.47	0.43
5:A:877:TRP:CZ2	5:A:878:ILE:HD13	2.53	0.43
1:K:115:GLU:HG2	1:K:135:PRO:HG2	2.01	0.43
1:K:138:SER:HA	1:K:141:LEU:HD12	1.99	0.43
1:K:287:GLU:HA	1:K:290:MET:HE3	2.00	0.43
1:K:335:ARG:HB2	1:K:369:ASN:HB2	2.00	0.43
1:K:398:LYS:HA	1:K:428:VAL:O	2.19	0.43
1:K:407:LYS:HB3	1:K:463:GLU:HB3	2.01	0.43
1:K:541:ASP:O	1:K:545:LYS:HG3	2.19	0.43
1:K:563:PRO:O	1:K:566:VAL:HG22	2.18	0.43
2:H:136:VAL:O	2:H:143:ARG:HD3	2.18	0.43
2:H:179:LEU:HB3	2:H:363:ILE:C	2.39	0.43
1:F:314:ILE:HD11	1:F:541:ASP:HB2	2.01	0.43
3:E:228:ILE:HG23	3:E:232:ASN:O	2.18	0.43
4:C:338:LEU:O	4:C:341:THR:HG23	2.18	0.43
4:C:451:PHE:HB3	4:C:1254:TYR:CZ	2.54	0.43
4:C:861:ALA:HA	4:B:440:MET:HB2	1.89	0.43
4:C:949:LEU:HA	4:C:951:TRP:NE1	2.32	0.43
4:C:1067:PHE:HE2	4:C:1136:ARG:HB3	1.84	0.43
4:B:427:VAL:CG2	4:B:1238:PRO:HA	2.47	0.43
4:B:707:GLU:HB3	4:B:711:ARG:NH2	2.34	0.43
4:B:882:ILE:O	4:B:886:LEU:HG	2.18	0.43
5:A:1053:PHE:N	5:A:1065:THR:OG1	2.40	0.43
1:K:47:PRO:HD2	1:K:65:ARG:HH12	1.80	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:309:ALA:N	1:K:310:PRO:CD	2.82	0.43
1:K:375:PRO:CG	1:K:498:LEU:HB2	2.49	0.43
1:K:594:LYS:HB3	1:K:598:ARG:NH1	2.33	0.43
2:I:143:ARG:HH11	2:I:143:ARG:CG	2.29	0.43
2:I:222:VAL:HG12	2:I:264:ILE:CD1	2.49	0.43
2:H:221:MET:HB2	2:H:263:PRO:HD2	2.00	0.43
2:H:260:ALA:HA	2:H:270:ALA:O	2.19	0.43
2:G:39:GLN:HG3	2:G:79:HIS:CD2	2.54	0.43
2:G:99:MET:HA	2:G:99:MET:HE3	2.00	0.43
2:G:257:TYR:CG	2:G:344:SER:HA	2.54	0.43
1:F:148:VAL:CG2	1:F:160:GLN:HB2	2.48	0.43
1:F:403:VAL:HA	1:F:467:TYR:O	2.19	0.43
3:E:38:GLN:NE2	4:B:1015:MET:O	2.52	0.43
3:E:156:THR:O	3:E:156:THR:OG1	2.37	0.43
3:E:182:TYR:CD1	3:E:182:TYR:N	2.86	0.43
3:E:233:THR:HG22	3:E:238:TYR:CE2	2.54	0.43
4:C:511:ASN:HA	4:C:514:ARG:HD3	2.01	0.43
4:C:533:GLN:N	4:C:534:PRO:CD	2.81	0.43
4:C:574:ALA:O	4:C:578:LEU:HG	2.18	0.43
4:C:701:ILE:HD13	4:C:704:GLN:NE2	2.29	0.43
4:C:732:LEU:CG	4:C:1011:VAL:HG11	2.48	0.43
4:C:1044:ASP:CA	4:C:1141:MET:HG3	2.41	0.43
4:C:1207:ARG:NH2	4:C:1249:GLU:O	2.52	0.43
4:B:578:LEU:O	4:B:581:LEU:HB2	2.18	0.43
4:B:985:GLU:OE1	4:B:985:GLU:HA	2.19	0.43
5:A:17:THR:HG23	5:A:360:VAL:CG1	2.48	0.43
5:A:319:PRO:HG2	5:A:322:LEU:HA	2.00	0.43
5:A:650:GLU:HG2	5:A:651:LEU:N	2.34	0.43
5:A:940:LEU:HD21	5:A:942:ILE:HD11	2.01	0.43
5:A:1145:ILE:O	5:A:1181:LEU:N	2.52	0.43
1:K:400:GLY:HA3	1:K:473:ILE:HG12	2.00	0.43
1:K:490:ASP:O	1:F:436:SER:OG	2.37	0.43
2:I:133:TRP:HA	2:I:136:VAL:HG23	2.00	0.43
2:I:225:TYR:O	2:I:228:LEU:HB3	2.19	0.43
2:I:238:TYR:CZ	2:I:242:LEU:HD12	2.54	0.43
2:G:133:TRP:HB2	2:G:220:VAL:HG21	2.00	0.43
2:G:218:TRP:CG	2:G:267:LYS:HG3	2.53	0.43
1:F:324:ARG:NH2	1:F:485:GLN:OE1	2.49	0.43
1:F:453:GLU:HB2	1:F:456:GLN:CB	2.49	0.43
3:E:43:LEU:HD21	3:E:65:TYR:HD1	1.84	0.43
3:E:106:VAL:CG2	4:B:944:PRO:CA	2.97	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:349:MET:HG3	3:E:353:GLN:HB2	2.00	0.43
4:C:601:ASN:HB3	4:C:832:GLN:HG2	2.01	0.43
4:C:685:PRO:CB	4:C:688:PHE:HB3	2.49	0.43
4:B:850:THR:HB	4:B:864:LEU:HD13	2.01	0.43
4:B:947:ARG:HG2	4:B:947:ARG:HH11	1.83	0.43
5:A:112:ASN:HD21	5:A:146:LEU:HG	1.84	0.43
5:A:391:PRO:HA	5:A:788:LEU:HG	1.99	0.43
5:A:448:VAL:HG23	5:A:668:SER:CA	2.48	0.43
5:A:486:ASP:HA	5:A:489:VAL:HG22	1.99	0.43
5:A:554:VAL:HG11	5:A:557:GLY:HA3	2.00	0.43
5:A:719:MET:H	5:A:719:MET:HG2	1.60	0.43
5:A:878:ILE:H	5:A:878:ILE:HG12	1.58	0.43
5:A:1012:MET:HE3	5:A:1016:MET:HE1	2.01	0.43
5:A:1053:PHE:N	5:A:1053:PHE:CD1	2.87	0.43
5:A:1170:LYS:HD3	5:A:1171:PHE:HE1	1.82	0.43
5:A:1230:LEU:O	5:A:1277:TYR:N	2.51	0.43
1:K:186:GLU:O	1:K:190:ILE:HG13	2.18	0.43
2:I:70:HIS:HD2	1:F:584:ARG:CZ	2.31	0.43
2:I:218:TRP:NE1	2:I:358:ILE:HD11	2.32	0.43
2:H:7:ASN:HB2	2:H:10:GLN:HG3	2.00	0.43
2:G:7:ASN:O	2:G:11:ILE:HG13	2.19	0.43
1:F:546:ILE:HG21	1:F:624:TRP:HH2	1.84	0.43
3:E:77:GLN:O	3:E:81:ARG:HG3	2.19	0.43
4:C:613:TYR:CD1	4:C:613:TYR:N	2.86	0.43
4:C:660:GLU:OE2	4:C:701:ILE:HB	2.19	0.43
4:B:332:ILE:O	4:B:335:PHE:N	2.52	0.43
4:B:747:PRO:HD2	5:A:154:SER:N	1.93	0.43
4:B:813:GLN:C	4:B:816:PRO:HD2	2.39	0.43
4:B:1129:TRP:O	4:B:1133:GLY:HA3	2.19	0.43
4:B:1171:THR:CG2	4:B:1172:PRO:CD	2.91	0.43
5:A:632:LEU:HD13	5:A:664:LEU:O	2.19	0.43
5:A:1250:LEU:HD13	5:A:1277:TYR:CE1	2.53	0.43
1:K:650:LYS:HE2	1:F:299:GLU:C	2.28	0.43
2:H:196:ARG:HG3	2:H:196:ARG:O	2.19	0.43
2:G:79:HIS:O	2:G:83:VAL:N	2.52	0.43
2:G:251:HIS:O	2:G:255:SER:N	2.51	0.43
1:F:203:VAL:HG11	1:F:207:GLU:HA	2.01	0.43
1:F:399:VAL:HG12	1:F:472:PHE:CA	2.45	0.43
3:E:17:GLN:H	3:E:17:GLN:HG3	1.52	0.43
3:E:168:GLU:O	3:E:171:TRP:HB2	2.18	0.43
4:C:271:ILE:HD12	4:C:271:ILE:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:380:GLN:HG3	4:C:388:GLY:CA	2.40	0.43
4:C:596:ALA:O	4:C:599:LEU:HB2	2.19	0.43
4:C:853:SER:HB3	4:C:995:THR:CG2	2.49	0.43
4:B:493:VAL:HG12	4:B:1273:GLY:HA2	2.01	0.43
4:B:522:ILE:CA	4:B:525:ILE:HG12	2.46	0.43
4:B:998:ALA:HA	4:B:1011:VAL:O	2.18	0.43
4:B:1138:ARG:NH2	4:B:1202:THR:HG21	2.34	0.43
5:A:333:GLN:O	5:A:336:SER:HB3	2.18	0.43
5:A:425:ASP:O	5:A:794:LEU:N	2.37	0.43
5:A:744:TYR:CE1	5:A:789:PRO:HB3	2.54	0.43
5:A:835:LYS:O	5:A:839:LEU:HG	2.19	0.43
5:A:873:LEU:HD23	5:A:873:LEU:HA	1.79	0.43
5:A:979:ILE:HG22	5:A:981:TRP:CZ3	2.54	0.43
1:K:46:VAL:HG13	1:K:65:ARG:CD	2.48	0.42
1:K:102:VAL:CG1	1:K:163:VAL:HG13	2.48	0.42
1:K:505:VAL:O	2:G:312:ARG:NH1	2.52	0.42
2:H:87:PHE:HD1	2:H:149:TRP:CG	2.37	0.42
2:G:222:VAL:HG23	2:G:357:MET:SD	2.59	0.42
2:G:228:LEU:HG	2:G:229:GLU:N	2.34	0.42
3:E:163:TYR:HB2	3:E:271:PHE:HD2	1.77	0.42
3:E:276:SER:OG	3:E:332:VAL:HG23	2.18	0.42
3:E:414:ILE:HA	3:E:417:LEU:HG	2.01	0.42
4:C:474:ILE:HG22	4:C:505:MET:O	2.19	0.42
4:C:851:ARG:HD2	4:C:991:ASP:CB	2.45	0.42
4:C:937:GLN:OE1	4:C:937:GLN:CA	2.67	0.42
4:C:997:LEU:O	4:C:1012:ILE:HG23	2.19	0.42
4:C:1207:ARG:NH2	4:C:1231:ARG:HH22	2.17	0.42
4:B:651:THR:HG22	4:B:655:MET:CE	2.49	0.42
4:B:836:VAL:HG21	4:B:839:ASP:O	2.19	0.42
4:B:991:ASP:HA	4:B:992:PRO:HD3	1.83	0.42
5:A:13:LEU:HD11	5:A:379:MET:HE3	2.01	0.42
5:A:691:LEU:HA	5:A:692:PRO:HD3	1.91	0.42
5:A:1056:TYR:CD2	5:A:1061:LEU:HB2	2.54	0.42
5:A:1056:TYR:O	5:A:1100:THR:N	2.36	0.42
5:A:1084:LYS:CB	5:A:1086:GLU:HG3	2.38	0.42
1:K:43:PRO:HB3	1:K:102:VAL:HG12	1.98	0.42
1:K:140:LEU:H	1:K:140:LEU:CD1	2.32	0.42
1:K:505:VAL:HG23	1:K:510:VAL:CG2	2.49	0.42
1:K:506:LYS:CE	2:G:309:GLU:CB	2.95	0.42
1:K:590:GLY:O	1:K:594:LYS:HG3	2.18	0.42
2:I:91:VAL:HG22	2:I:149:TRP:HB3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:133:TRP:CZ3	2:H:219:GLY:HA2	2.53	0.42
2:H:224:ASP:HA	2:H:357:MET:HE3	2.00	0.42
2:H:292:LEU:HD12	2:H:295:VAL:HG22	2.00	0.42
2:G:51:CYS:N	2:G:58:VAL:HG22	2.33	0.42
2:G:79:HIS:HA	2:G:82:TYR:CD2	2.54	0.42
1:F:346:GLN:HG2	1:F:360:ASN:CG	2.39	0.42
1:F:357:TRP:CG	1:F:475:SER:HA	2.54	0.42
1:F:370:LEU:CD1	1:F:403:VAL:HG13	2.50	0.42
4:C:221:THR:HB	4:C:234:GLN:HB2	2.00	0.42
4:C:636:LEU:HB2	4:C:637:PRO:HD3	2.01	0.42
4:C:1042:ARG:HG2	4:C:1043:GLY:N	2.33	0.42
4:B:281:LEU:HG	4:B:286:PHE:CZ	2.54	0.42
4:B:401:LYS:O	4:B:405:ILE:HG13	2.19	0.42
4:B:507:TYR:CD2	4:B:915:PHE:HB3	2.54	0.42
4:B:520:ILE:HG23	4:B:986:PRO:CG	2.47	0.42
4:B:687:CYS:HA	4:B:693:LEU:HD12	2.01	0.42
4:B:766:ALA:HB1	4:B:801:LYS:HE3	2.01	0.42
4:B:1188:HIS:HD2	4:B:1190:ILE:HG23	1.83	0.42
5:A:38:PRO:HA	5:A:87:ARG:NH2	2.33	0.42
5:A:232:HIS:HD2	5:A:234:LEU:HD21	1.84	0.42
5:A:552:TYR:HA	5:A:559:ILE:CA	2.49	0.42
5:A:630:LYS:O	5:A:634:ASN:ND2	2.52	0.42
5:A:745:GLU:CD	5:A:745:GLU:C	2.77	0.42
5:A:903:PHE:CD2	5:A:961:SER:HB3	2.54	0.42
5:A:1171:PHE:CG	5:A:1185:VAL:HB	2.54	0.42
1:K:98:GLU:HA	1:K:99:PRO:HD3	1.94	0.42
1:K:272:PRO:CA	1:K:278:PRO:HD3	2.49	0.42
1:K:298:PRO:O	1:K:302:ALA:N	2.52	0.42
1:K:368:VAL:O	1:K:468:LEU:N	2.42	0.42
1:K:409:PRO:O	1:K:413:TRP:N	2.52	0.42
1:K:524:PRO:HG2	1:F:377:ARG:HH22	1.84	0.42
2:I:127:SER:HB2	2:I:362:MET:SD	2.59	0.42
2:I:204:THR:HG23	2:I:218:TRP:NE1	2.33	0.42
2:I:299:VAL:HG22	2:I:320:MET:HG2	2.01	0.42
2:H:14:LEU:HD22	2:H:45:CYS:SG	2.60	0.42
2:H:103:VAL:HG12	2:H:166:TYR:CB	2.49	0.42
2:G:10:GLN:CB	2:G:46:GLY:HA3	2.49	0.42
2:G:17:ASN:CB	2:G:23:VAL:HG13	2.45	0.42
2:G:292:LEU:HD23	2:G:331:ALA:HB2	2.01	0.42
2:G:326:ARG:NH1	2:G:326:ARG:CB	2.82	0.42
1:F:98:GLU:OE1	1:F:99:PRO:HD2	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:402:ILE:HB	1:F:469:LEU:HB3	2.01	0.42
1:F:409:PRO:HG2	1:F:412:LEU:HD12	2.00	0.42
1:F:410:PHE:HD1	1:F:413:TRP:CZ3	2.37	0.42
1:F:410:PHE:CD1	1:F:413:TRP:CE3	3.07	0.42
1:F:503:VAL:O	1:F:510:VAL:N	2.47	0.42
1:F:551:LYS:HA	1:F:551:LYS:HD2	1.87	0.42
3:E:161:ILE:CG2	3:E:273:MET:HB3	2.50	0.42
3:E:201:ARG:HB3	3:E:201:ARG:CZ	2.50	0.42
4:C:510:SER:OG	4:C:513:GLU:HG3	2.19	0.42
4:C:948:TYR:HE1	4:C:1029:GLU:N	2.17	0.42
4:C:1082:ARG:CD	4:B:420:CYS:CB	2.84	0.42
4:C:1116:GLN:HB3	4:C:1172:PRO:HA	2.02	0.42
4:C:1127:ASP:HA	4:C:1130:ILE:HD12	2.00	0.42
4:B:270:PRO:HA	4:B:302:SER:HB3	2.02	0.42
4:B:475:ASN:O	4:B:478:GLU:HB2	2.19	0.42
4:B:635:ALA:O	4:B:639:THR:HG23	2.19	0.42
5:A:17:THR:OG1	5:A:360:VAL:HG13	2.19	0.42
5:A:362:ASP:OD1	5:A:362:ASP:N	2.51	0.42
5:A:422:LEU:HD12	5:A:422:LEU:O	2.19	0.42
5:A:924:VAL:O	5:A:926:VAL:HG23	2.19	0.42
5:A:1052:VAL:CG2	5:A:1066:GLU:HB2	2.48	0.42
1:K:182:LEU:HD13	1:F:279:LEU:HD21	2.00	0.42
1:K:333:TRP:CH2	1:K:334:LEU:HG	2.55	0.42
1:K:453:GLU:O	1:K:456:GLN:HG2	2.19	0.42
2:G:101:SER:O	2:G:105:GLN:HG3	2.18	0.42
1:F:146:CYS:N	1:F:160:GLN:O	2.49	0.42
3:E:270:LEU:C	3:E:270:LEU:CD1	2.86	0.42
4:C:494:THR:HG22	4:C:496:PRO:HD3	1.99	0.42
4:C:654:ASN:N	4:C:654:ASN:HD22	2.17	0.42
4:C:935:VAL:HG21	4:C:993:ARG:N	2.34	0.42
4:C:994:MET:O	4:C:994:MET:CG	2.67	0.42
4:C:1035:TYR:CA	4:C:1038:PHE:HB2	2.32	0.42
4:C:1162:LEU:H	4:C:1162:LEU:HD13	1.78	0.42
4:B:413:THR:HG22	4:B:420:CYS:SG	2.60	0.42
4:B:646:VAL:HG21	4:B:684:TRP:CG	2.55	0.42
4:B:708:ILE:O	4:B:712:TYR:N	2.52	0.42
4:B:846:MET:SD	4:B:846:MET:C	2.98	0.42
4:B:1095:ARG:HB2	4:B:1101:MET:HE3	2.01	0.42
5:A:390:THR:O	5:A:788:LEU:N	2.44	0.42
5:A:434:ALA:CB	5:A:645:VAL:HA	2.50	0.42
5:A:533:TRP:CD1	5:A:541:VAL:HG11	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:743:ILE:HD12	5:A:787:ILE:HG13	2.01	0.42
5:A:791:ASP:HA	5:A:792:PRO:HD3	1.90	0.42
5:A:837:LEU:HD12	5:A:867:PHE:CZ	2.54	0.42
5:A:982:VAL:O	5:A:1013:TYR:HE2	2.02	0.42
5:A:1007:ARG:O	5:A:1011:LEU:HG	2.18	0.42
1:K:101:VAL:HG13	1:F:265:VAL:HG21	1.99	0.42
1:K:346:GLN:NE2	1:K:478:ILE:O	2.53	0.42
1:K:385:LYS:HE3	1:K:490:ASP:O	2.19	0.42
1:K:621:LYS:HG3	1:K:622:ASN:N	2.35	0.42
2:I:42:MET:HA	2:I:52:MET:HG2	2.01	0.42
2:I:337:PRO:HD2	2:I:340:LEU:CD2	2.31	0.42
2:H:220:VAL:O	2:H:358:ILE:HA	2.18	0.42
2:G:185:MET:N	2:G:260:ALA:O	2.47	0.42
1:F:298:PRO:HG2	1:F:632:LYS:HE3	2.01	0.42
1:F:348:GLN:HG2	1:F:358:HIS:CB	2.48	0.42
1:F:407:LYS:HA	1:F:463:GLU:O	2.19	0.42
3:E:187:PHE:HB3	3:E:250:VAL:HG13	2.00	0.42
3:E:349:MET:HG2	3:E:350:THR:O	2.19	0.42
4:C:258:TRP:HA	4:C:372:LEU:O	2.20	0.42
4:C:270:PRO:HA	4:C:302:SER:HB3	2.00	0.42
4:C:318:ARG:HD3	4:C:318:ARG:HA	1.85	0.42
4:C:1159:ALA:O	4:C:1163:THR:N	2.40	0.42
4:B:755:LEU:CD2	4:B:804:LYS:HB3	2.50	0.42
4:B:920:ARG:HD2	4:B:920:ARG:C	2.40	0.42
5:A:554:VAL:HG13	5:A:557:GLY:CA	2.49	0.42
5:A:580:GLN:NE2	5:A:617:ASN:HB2	2.34	0.42
5:A:1050:GLN:H	5:A:1050:GLN:HG3	1.54	0.42
5:A:1083:THR:OG1	5:A:1084:LYS:HG3	2.18	0.42
5:A:1170:LYS:HB3	5:A:1171:PHE:CD1	2.54	0.42
5:A:1188:ASP:OD1	5:A:1231:SER:N	2.53	0.42
1:K:63:LEU:HD23	1:K:63:LEU:HA	1.87	0.42
1:K:336:MET:CB	1:K:366:ARG:HB3	2.49	0.42
1:K:388:LYS:HD3	1:K:394:PRO:HD2	2.00	0.42
1:K:404:PHE:HB3	1:K:422:ALA:HB2	2.02	0.42
2:G:66:LYS:HB2	2:G:67:HIS:CE1	2.54	0.42
2:G:144:SER:HB3	2:G:147:SER:CB	2.46	0.42
2:G:187:ASP:OD1	2:G:188:PRO:HD2	2.19	0.42
1:F:166:ILE:HG12	1:F:167:THR:N	2.34	0.42
1:F:309:ALA:HB2	1:F:510:VAL:O	2.19	0.42
3:E:184:GLY:HA3	4:B:500:SER:HG	1.72	0.42
3:E:233:THR:HG22	3:E:238:TYR:CD2	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:272:VAL:HG12	3:E:328:HIS:CB	2.46	0.42
4:C:310:TRP:CZ3	4:C:402:TRP:HH2	2.38	0.42
4:B:334:LEU:HD23	4:B:337:GLN:OE1	2.20	0.42
4:B:474:ILE:HD13	4:B:507:TYR:HB2	2.00	0.42
4:B:690:ASN:ND2	4:B:693:LEU:HG	2.35	0.42
4:B:947:ARG:HG2	4:B:947:ARG:NH1	2.35	0.42
4:B:1046:ILE:HB	4:B:1200:ILE:CG1	2.49	0.42
5:A:19:GLU:HG3	5:A:276:VAL:CG2	2.46	0.42
5:A:270:ALA:O	5:A:271:ARG:NH1	2.52	0.42
5:A:430:TRP:HD1	5:A:476:ARG:NH1	2.17	0.42
5:A:438:TYR:O	5:A:438:TYR:CG	2.72	0.42
5:A:515:PHE:HB2	5:A:576:SER:CA	2.20	0.42
5:A:640:LEU:HA	5:A:652:PHE:O	2.18	0.42
5:A:947:LYS:HD2	5:A:960:TYR:CE1	2.54	0.42
5:A:1032:GLY:HA3	5:A:1041:SER:N	2.32	0.42
5:A:1075:GLN:CG	5:A:1092:VAL:HB	2.49	0.42
1:K:391:SER:OG	2:H:279:ASN:N	2.53	0.42
2:H:197:LEU:HB3	2:H:201:ALA:HB1	2.02	0.42
2:H:247:ARG:CB	2:H:348:LYS:HD2	2.38	0.42
2:G:210:PHE:HZ	2:G:268:MET:HG2	1.85	0.42
2:G:326:ARG:NH1	2:G:326:ARG:HB2	2.35	0.42
1:F:149:GLY:HA2	1:F:154:GLN:OE1	2.20	0.42
1:F:442:ILE:O	1:F:442:ILE:HG23	2.20	0.42
1:F:471:THR:HG22	1:F:472:PHE:N	2.35	0.42
1:F:505:VAL:HG21	1:F:510:VAL:HG21	2.01	0.42
1:F:546:ILE:HG21	1:F:624:TRP:CH2	2.55	0.42
3:E:58:VAL:HG13	3:E:64:ARG:HB2	2.00	0.42
4:C:307:HIS:CB	4:C:310:TRP:HB3	2.50	0.42
4:C:637:PRO:HA	4:C:713:TRP:HH2	1.84	0.42
4:C:641:ASP:OD2	4:C:641:ASP:C	2.57	0.42
4:C:1188:HIS:HA	4:C:1220:ILE:CB	2.36	0.42
4:B:260:ALA:N	4:B:313:ASN:O	2.37	0.42
4:B:313:ASN:ND2	4:B:313:ASN:C	2.72	0.42
4:B:602:GLY:HA2	4:B:833:VAL:CG1	2.38	0.42
5:A:100:ILE:HG12	5:A:133:LEU:CD1	2.40	0.42
5:A:155:GLN:N	5:A:155:GLN:NE2	2.66	0.42
5:A:1042:LEU:HD12	5:A:1089:LEU:HB2	2.02	0.42
1:K:182:LEU:O	1:K:186:GLU:HG3	2.20	0.42
1:K:239:ALA:O	1:K:242:LYS:HB2	2.20	0.42
1:K:376:MET:HG2	1:K:378:PHE:CE2	2.55	0.42
1:K:435:SER:HA	1:K:442:ILE:CG2	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:87:PHE:HA	2:I:149:TRP:CZ3	2.55	0.42
2:H:19:PHE:CE2	2:H:291:LYS:HG2	2.54	0.42
2:H:183:PHE:CE2	2:H:363:ILE:HG12	2.54	0.42
2:H:247:ARG:HB3	2:H:348:LYS:CD	2.39	0.42
2:G:245:PRO:HB2	2:G:259:ARG:NH1	2.34	0.42
1:F:115:GLU:HA	1:F:118:LEU:HD12	2.02	0.42
1:F:407:LYS:HD3	1:F:463:GLU:OE1	2.20	0.42
3:E:178:LEU:HD13	4:B:481:TRP:CZ3	2.45	0.42
3:E:179:LEU:HD11	3:E:212:MET:HA	2.02	0.42
3:E:234:TYR:CE1	3:E:263:ILE:HG13	2.55	0.42
4:C:433:ARG:HA	4:C:450:VAL:HG12	2.01	0.42
4:C:548:PRO:HB3	4:C:900:TRP:CD2	2.55	0.42
4:C:646:VAL:HG21	4:C:684:TRP:CG	2.55	0.42
4:C:713:TRP:CE3	4:C:713:TRP:HA	2.54	0.42
4:B:578:LEU:HD23	4:B:581:LEU:CD1	2.49	0.42
4:B:836:VAL:CB	4:B:839:ASP:HB3	2.41	0.42
5:A:7:VAL:CG1	5:A:9:LEU:HD21	2.50	0.42
5:A:19:GLU:HG2	5:A:276:VAL:O	2.20	0.42
5:A:711:ILE:HG21	5:A:714:PRO:HB3	2.00	0.42
5:A:911:ILE:HG13	5:A:969:ILE:CG2	2.48	0.42
5:A:940:LEU:HB2	5:A:951:PHE:HD2	1.82	0.42
5:A:1055:CYS:O	5:A:1062:ALA:N	2.53	0.42
1:K:610:ILE:CA	1:K:618:LEU:HD22	2.49	0.42
2:I:201:ALA:HB1	2:I:221:MET:HE1	2.02	0.42
2:I:271:VAL:HG21	2:I:343:PHE:HZ	1.83	0.42
2:H:195:VAL:HB	2:H:356:VAL:HG23	2.02	0.42
2:G:146:HIS:H	2:G:146:HIS:CD2	2.36	0.42
2:G:159:LEU:HD23	2:G:160:ASP:N	2.35	0.42
2:G:343:PHE:CD1	2:G:343:PHE:N	2.88	0.42
1:F:427:TYR:HB3	1:F:473:ILE:CD1	2.23	0.42
3:E:155:LEU:HD21	3:E:316:ILE:HD12	2.02	0.42
3:E:176:ASN:O	4:B:497:TYR:CZ	2.70	0.42
3:E:197:ALA:O	3:E:200:ASN:HB2	2.20	0.42
3:E:201:ARG:CZ	4:B:725:ASN:HA	2.41	0.42
4:C:433:ARG:CB	4:C:450:VAL:HG12	2.49	0.42
4:C:520:ILE:CD1	4:C:987:LEU:HD21	2.46	0.42
4:C:713:TRP:CE2	4:C:714:PRO:HD2	2.50	0.42
4:C:821:VAL:O	4:C:824:PRO:HG2	2.19	0.42
4:B:528:ASN:CG	4:B:531:VAL:HG23	2.39	0.42
4:B:1031:PHE:HA	4:B:1038:PHE:CE1	2.54	0.42
4:B:1212:THR:OG1	4:B:1225:LYS:N	2.41	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:17:THR:HG23	5:A:360:VAL:CG2	2.50	0.42
5:A:133:LEU:N	5:A:134:PRO:CD	2.82	0.42
5:A:375:LEU:CD2	5:A:377:LEU:HD21	2.50	0.42
5:A:393:PRO:HB2	5:A:740:SER:CB	2.50	0.42
5:A:824:VAL:O	5:A:885:ILE:HB	2.19	0.42
5:A:830:THR:HG21	5:A:848:CYS:SG	2.60	0.42
5:A:1040:CYS:O	5:A:1090:ASP:HA	2.20	0.42
1:K:121:ASN:HB3	1:K:188:TRP:NE1	2.34	0.42
1:K:203:VAL:HA	1:K:204:PRO:HD3	1.94	0.42
1:K:425:VAL:HG21	1:K:450:TYR:CD2	2.55	0.42
1:K:505:VAL:HG12	2:G:313:TYR:CG	2.50	0.42
2:H:185:MET:HG2	2:H:223:TYR:HE1	1.85	0.42
2:G:95:TRP:CZ2	2:G:268:MET:HG3	2.55	0.42
1:F:239:ALA:O	1:F:242:LYS:HB2	2.20	0.42
1:F:301:ILE:HD13	1:F:546:ILE:CG1	2.33	0.42
1:F:321:TYR:OH	1:F:532:PRO:HD3	2.20	0.42
1:F:620:ASP:HB3	1:F:623:ASN:CG	2.40	0.42
3:E:48:LEU:HG	3:E:283:VAL:HG11	2.00	0.42
3:E:106:VAL:HG22	4:B:944:PRO:HG3	0.48	0.42
3:E:162:SER:N	3:E:272:VAL:O	2.52	0.42
3:E:181:ASN:N	3:E:181:ASN:HD22	2.16	0.42
3:E:240:GLN:H	3:E:252:ILE:N	2.18	0.42
4:C:327:PRO:HB2	4:C:1148:LEU:HB2	2.02	0.42
4:C:373:ASN:CB	4:C:1259:ARG:HG2	2.50	0.42
4:C:492:THR:O	4:C:1272:MET:N	2.46	0.42
4:C:681:PRO:HA	4:C:684:TRP:NE1	2.34	0.42
4:C:1123:ASN:O	4:C:1127:ASP:N	2.53	0.42
4:B:358:VAL:O	4:B:361:MET:HB3	2.19	0.42
4:B:592:ARG:HH11	4:B:592:ARG:HG3	1.85	0.42
4:B:851:ARG:HH11	4:B:851:ARG:CG	2.31	0.42
5:A:372:LYS:HB3	5:A:374:GLN:OE1	2.20	0.42
5:A:375:LEU:HD21	5:A:377:LEU:HD21	2.02	0.42
5:A:1033:ASN:HB3	5:A:1038:GLN:HB3	2.02	0.42
5:A:1078:ALA:HA	5:A:1088:THR:O	2.20	0.42
5:A:1195:LEU:HD12	5:A:1196:TYR:N	2.35	0.42
5:A:1249:ILE:CG2	5:A:1289:LEU:HD12	2.50	0.42
1:K:179:GLN:CA	1:K:179:GLN:OE1	2.67	0.41
1:K:305:VAL:HB	1:K:306:PRO:HD2	2.02	0.41
1:K:517:GLU:HG2	2:G:313:TYR:OH	2.13	0.41
1:K:543:ALA:O	1:K:547:ALA:N	2.45	0.41
2:H:154:GLN:O	2:H:156:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:271:VAL:HG13	2:H:343:PHE:HZ	1.84	0.41
2:G:7:ASN:HD22	2:G:7:ASN:N	2.16	0.41
2:G:45:CYS:N	2:G:48:ALA:O	2.49	0.41
2:G:184:MET:CA	2:G:261:THR:HA	2.37	0.41
2:G:326:ARG:HB2	2:G:326:ARG:HH11	1.85	0.41
2:G:331:ALA:HB3	2:G:332:PRO:HD3	2.02	0.41
3:E:138:ARG:N	3:E:138:ARG:HD3	2.35	0.41
4:C:306:VAL:O	4:C:324:MET:N	2.34	0.41
4:C:982:MET:O	4:C:982:MET:HG3	2.20	0.41
4:C:1082:ARG:HG3	4:B:413:THR:HB	2.00	0.41
4:B:391:LEU:N	4:B:391:LEU:CD1	2.83	0.41
4:B:518:GLN:HE22	4:B:828:PHE:HE1	1.67	0.41
4:B:548:PRO:HB3	4:B:900:TRP:CE2	2.55	0.41
4:B:595:LEU:O	4:B:598:TRP:HB2	2.20	0.41
4:B:615:LYS:C	4:B:615:LYS:HD3	2.40	0.41
5:A:50:ARG:H	5:A:183:ASP:HB3	1.85	0.41
5:A:374:GLN:CD	5:A:374:GLN:N	2.73	0.41
5:A:628:GLU:HA	5:A:632:LEU:CD1	2.50	0.41
5:A:693:SER:HB3	5:A:696:TYR:HB3	2.02	0.41
5:A:984:LEU:HD22	5:A:1013:TYR:CE1	2.54	0.41
5:A:1148:ASN:HB3	5:A:1151:TYR:HD1	1.85	0.41
5:A:1247:ILE:HG21	5:A:1261:TRP:NE1	2.34	0.41
1:K:101:VAL:CG1	1:F:265:VAL:CG2	2.93	0.41
1:K:182:LEU:CD1	1:F:279:LEU:HD21	2.51	0.41
1:K:375:PRO:CA	1:K:454:PRO:HD3	2.50	0.41
1:K:453:GLU:N	1:K:453:GLU:CD	2.74	0.41
2:H:52:MET:CE	2:H:52:MET:HA	2.51	0.41
2:H:180:VAL:HB	2:H:364:LEU:O	2.21	0.41
2:H:197:LEU:HD13	2:H:201:ALA:O	2.20	0.41
2:H:312:ARG:HD2	2:H:316:GLY:O	2.20	0.41
2:H:331:ALA:N	2:H:332:PRO:CD	2.82	0.41
2:G:196:ARG:HH21	2:G:355:PRO:HD3	1.85	0.41
1:F:409:PRO:HD2	1:F:412:LEU:HD12	2.02	0.41
1:F:620:ASP:HB3	1:F:623:ASN:HB2	2.02	0.41
3:E:138:ARG:CZ	5:A:212:TRP:O	2.66	0.41
4:C:267:LYS:HB3	4:C:310:TRP:CZ2	2.55	0.41
4:C:433:ARG:HD3	4:C:448:VAL:HG21	2.02	0.41
4:C:523:MET:HB3	4:C:986:PRO:HB2	2.02	0.41
4:C:543:LEU:HD13	4:C:595:LEU:HD12	2.01	0.41
4:C:577:ILE:HD13	4:C:627:TRP:CB	2.30	0.41
4:C:815:ALA:N	4:C:816:PRO:CD	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:C:1005:ASN:OD1	4:C:1006:GLY:N	2.52	0.41
4:C:1147:MET:O	4:C:1180:PHE:N	2.47	0.41
4:B:306:VAL:HG23	4:B:324:MET:HE1	2.01	0.41
4:B:333:HIS:O	4:B:337:GLN:N	2.53	0.41
4:B:601:ASN:N	4:B:601:ASN:ND2	2.66	0.41
4:B:1092:PRO:C	4:B:1093:MET:HG2	2.41	0.41
5:A:155:GLN:H	5:A:155:GLN:NE2	2.16	0.41
5:A:418:THR:HA	5:A:709:ILE:HG22	2.02	0.41
5:A:564:ARG:CD	5:A:565:PRO:HD2	2.45	0.41
5:A:628:GLU:HG3	5:A:632:LEU:HD11	2.02	0.41
5:A:721:GLN:HE22	5:A:724:ARG:HD3	1.86	0.41
5:A:1079:GLN:NE2	5:A:1079:GLN:H	2.18	0.41
5:A:1130:TRP:CD1	5:A:1216:LEU:HD22	2.55	0.41
1:K:241:ALA:HB2	1:K:249:TRP:HD1	1.85	0.41
1:K:329:ASP:OD1	1:K:330:GLU:N	2.53	0.41
1:K:459:LYS:HE2	1:K:461:ASP:O	2.21	0.41
1:K:459:LYS:HE3	1:K:464:MET:O	2.19	0.41
2:I:26:TYR:HB2	2:I:32:TRP:CE2	2.55	0.41
2:I:221:MET:HE2	2:I:358:ILE:N	2.35	0.41
2:I:234:LYS:HG2	2:I:238:TYR:CE2	2.56	0.41
2:H:295:VAL:O	2:H:299:VAL:HG23	2.19	0.41
2:G:337:PRO:HB2	2:G:340:LEU:HD13	2.01	0.41
1:F:324:ARG:NE	1:F:490:ASP:HB2	2.35	0.41
1:F:400:GLY:N	1:F:473:ILE:HG23	2.35	0.41
3:E:7:LEU:HD12	3:E:7:LEU:N	2.35	0.41
3:E:55:SER:HB3	3:E:58:VAL:H	1.85	0.41
3:E:178:LEU:C	4:B:497:TYR:OH	2.58	0.41
3:E:214:GLN:HG2	3:E:295:LEU:HD21	2.02	0.41
3:E:307:ASN:HA	3:E:314:ARG:HH21	1.85	0.41
4:C:528:ASN:ND2	4:C:530:THR:HB	2.34	0.41
4:C:740:LEU:HB3	4:C:835:TYR:HE1	1.80	0.41
4:C:935:VAL:HG21	4:C:993:ARG:CA	2.50	0.41
4:C:1082:ARG:HA	4:B:414:PRO:CA	2.50	0.41
4:C:1138:ARG:CZ	4:C:1202:THR:HG21	2.50	0.41
4:B:243:LYS:HG2	4:B:982:MET:SD	2.60	0.41
4:B:327:PRO:O	4:B:1147:MET:HA	2.21	0.41
4:B:852:GLN:HE21	4:B:867:THR:HG22	1.84	0.41
4:B:1078:GLY:N	4:B:1097:GLU:HB2	2.33	0.41
4:B:1151:TYR:O	4:B:1183:PRO:HA	2.21	0.41
5:A:13:LEU:HD13	5:A:312:TYR:CD1	2.55	0.41
5:A:734:VAL:HG21	5:A:739:LYS:HZ2	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:896:ALA:O	5:A:900:SER:N	2.54	0.41
5:A:1036:VAL:HG21	5:A:1122:PRO:HD3	2.01	0.41
5:A:1104:LEU:CD2	5:A:1111:PRO:HA	2.50	0.41
1:K:98:GLU:OE2	1:K:169:THR:HB	2.20	0.41
1:K:126:ASP:C	1:K:129:ARG:H	2.24	0.41
1:K:317:LYS:HA	1:K:318:PRO:HD3	1.96	0.41
1:F:124:PHE:HB3	1:F:185:LEU:CD2	2.49	0.41
3:E:107:ALA:O	3:E:112:LEU:HG	2.20	0.41
3:E:306:ASN:HB3	3:E:314:ARG:HD3	2.02	0.41
4:C:267:LYS:HZ3	4:C:310:TRP:HB2	1.85	0.41
4:C:843:VAL:O	4:C:1004:TYR:N	2.49	0.41
4:C:892:PRO:HD2	4:C:895:LEU:CD2	2.50	0.41
4:C:1049:ARG:HB2	4:C:1198:TYR:CE2	2.55	0.41
4:C:1049:ARG:CG	4:C:1196:VAL:HG13	2.42	0.41
4:C:1075:HIS:HB2	4:C:1108:TRP:CG	2.53	0.41
4:B:472:MET:HE3	4:B:472:MET:HB3	1.88	0.41
4:B:473:ASN:HA	4:B:506:PRO:HA	2.02	0.41
4:B:638:LEU:CD1	4:B:886:LEU:HD11	2.48	0.41
4:B:689:MET:HG2	4:B:689:MET:H	1.58	0.41
4:B:690:ASN:O	4:B:693:LEU:HB2	2.20	0.41
4:B:1112:LEU:HB2	4:B:1139:ILE:CG2	2.48	0.41
5:A:165:GLU:HB2	5:A:199:PHE:CG	2.55	0.41
5:A:743:ILE:CD1	5:A:787:ILE:HG13	2.50	0.41
5:A:979:ILE:HG12	5:A:1021:ILE:CG2	2.47	0.41
5:A:1124:VAL:HG12	5:A:1209:TYR:HB3	2.00	0.41
1:K:197:THR:CG2	1:F:563:PRO:CA	2.82	0.41
1:K:405:GLN:CB	1:K:421:GLN:HB2	2.38	0.41
1:K:406:SER:O	1:K:465:ASN:N	2.49	0.41
1:K:489:TRP:CE3	1:K:489:TRP:HA	2.55	0.41
2:I:87:PHE:HD1	2:I:149:TRP:CD1	2.39	0.41
2:I:87:PHE:HD1	2:I:149:TRP:CG	2.39	0.41
2:I:120:ARG:O	2:I:123:THR:HB	2.21	0.41
2:I:313:TYR:CE2	1:F:505:VAL:CG1	2.99	0.41
2:H:49:VAL:O	2:H:57:VAL:HA	2.21	0.41
2:G:82:TYR:O	2:G:82:TYR:CD1	2.73	0.41
2:G:252:PHE:O	2:G:275:MET:HB3	2.20	0.41
2:G:299:VAL:HG13	2:G:320:MET:HG2	2.01	0.41
2:G:337:PRO:HD2	2:G:340:LEU:HD22	2.01	0.41
1:F:296:ALA:HB1	1:F:546:ILE:HG12	2.01	0.41
1:F:298:PRO:HA	1:F:301:ILE:CD1	2.50	0.41
3:E:90:ARG:HB2	3:E:93:ARG:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:168:GLU:HA	3:E:171:TRP:HD1	1.85	0.41
4:C:254:ARG:HD3	4:C:316:PHE:CE1	2.56	0.41
4:C:373:ASN:HB3	4:C:1259:ARG:HG2	2.02	0.41
4:C:515:GLN:NE2	4:C:732:LEU:HD21	2.36	0.41
4:C:643:CYS:HB3	4:C:684:TRP:HE1	1.84	0.41
4:C:1001:TYR:CD1	4:C:1001:TYR:C	2.92	0.41
4:C:1175:ILE:HG13	4:C:1176:PRO:CD	2.43	0.41
4:B:599:LEU:H	4:B:599:LEU:HG	1.63	0.41
4:B:601:ASN:HD21	4:B:832:GLN:HG2	1.84	0.41
4:B:767:ARG:HD3	4:B:767:ARG:HA	1.62	0.41
5:A:106:TYR:CD1	5:A:106:TYR:N	2.87	0.41
5:A:222:VAL:HG12	5:A:223:HIS:N	2.35	0.41
5:A:1080:PHE:CD2	5:A:1080:PHE:O	2.74	0.41
5:A:1240:VAL:N	5:A:1248:CYS:O	2.40	0.41
1:K:143:TYR:CD1	1:K:143:TYR:N	2.88	0.41
1:K:197:THR:CB	1:F:563:PRO:CA	2.99	0.41
1:K:219:LEU:O	1:K:223:LEU:N	2.54	0.41
1:K:239:ALA:O	1:K:243:ARG:HG2	2.21	0.41
1:K:485:GLN:OE1	1:F:436:SER:HB2	2.20	0.41
2:I:225:TYR:HB3	2:I:228:LEU:HD23	2.02	0.41
2:H:185:MET:HG2	2:H:223:TYR:CE1	2.56	0.41
2:H:239:ARG:O	2:H:243:VAL:N	2.54	0.41
2:H:260:ALA:HB2	2:H:343:PHE:CZ	2.55	0.41
2:G:292:LEU:HD13	2:G:327:THR:CG2	2.50	0.41
1:F:566:VAL:HG22	1:F:567:PRO:HD3	2.02	0.41
3:E:52:LEU:CD1	3:E:283:VAL:HG23	2.51	0.41
3:E:63:SER:HB3	3:E:393:ARG:O	2.21	0.41
3:E:222:LEU:CA	3:E:227:VAL:HB	2.50	0.41
4:C:825:MET:HE2	4:C:825:MET:N	2.36	0.41
4:C:860:PRO:CD	4:B:439:MET:HB2	2.50	0.41
4:C:1207:ARG:O	4:C:1207:ARG:HG2	2.20	0.41
4:B:674:ARG:O	4:B:677:ALA:HB3	2.21	0.41
4:B:942:GLN:HE21	4:B:942:GLN:HB2	1.64	0.41
4:B:1245:ILE:HD12	4:B:1247:LEU:HB2	2.02	0.41
5:A:178:TYR:CE2	5:A:180:ASN:HA	2.55	0.41
5:A:314:LEU:N	5:A:314:LEU:HD23	2.34	0.41
5:A:384:LEU:N	5:A:384:LEU:HD23	2.35	0.41
5:A:460:TYR:CZ	5:A:649:VAL:HG22	2.56	0.41
5:A:574:VAL:HB	5:A:612:PHE:HB3	2.00	0.41
5:A:711:ILE:HD12	5:A:711:ILE:N	2.36	0.41
5:A:885:ILE:HG12	5:A:921:VAL:HB	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:979:ILE:HG23	5:A:1019:MET:HG2	2.03	0.41
5:A:981:TRP:NE1	5:A:1117:PHE:HA	2.34	0.41
5:A:1174:PHE:CE1	5:A:1182:VAL:HB	2.56	0.41
5:A:1189:ILE:HG13	5:A:1230:LEU:HA	2.02	0.41
1:K:111:PHE:CD2	1:K:174:TYR:HE2	2.38	0.41
1:K:346:GLN:HA	1:K:360:ASN:CB	2.50	0.41
2:I:256:HIS:CE1	2:I:276:LEU:HB3	2.56	0.41
2:H:13:ASP:HB3	2:H:46:GLY:HA2	2.03	0.41
1:F:413:TRP:CH2	1:F:419:ILE:HA	2.55	0.41
1:F:510:VAL:CG2	1:F:513:VAL:HG22	2.49	0.41
1:F:587:ASN:HB2	1:F:592:LEU:HD21	2.02	0.41
3:E:161:ILE:CG2	3:E:273:MET:HG2	2.51	0.41
3:E:196:GLN:OE1	4:B:508:ARG:HB3	2.20	0.41
4:C:261:GLY:CA	4:C:312:SER:HA	2.51	0.41
4:C:765:ARG:HG3	4:C:765:ARG:NH1	2.35	0.41
4:C:1067:PHE:HE2	4:C:1136:ARG:CB	2.34	0.41
4:B:352:LEU:HB3	4:B:955:LEU:CA	2.50	0.41
4:B:1188:HIS:C	4:B:1221:ALA:HB2	2.41	0.41
5:A:355:TYR:HB2	5:A:372:LYS:O	2.20	0.41
5:A:621:ARG:N	5:A:622:PRO:HD2	2.36	0.41
5:A:735:GLY:HA2	5:A:765:ARG:HD3	2.01	0.41
5:A:1260:ASP:OD2	5:A:1261:TRP:N	2.53	0.41
1:K:375:PRO:HB3	1:K:454:PRO:CD	2.37	0.41
1:K:460:THR:O	1:K:460:THR:HG22	2.21	0.41
2:H:204:THR:HA	2:H:218:TRP:CZ2	2.56	0.41
2:H:247:ARG:HD3	2:H:247:ARG:HA	1.85	0.41
2:H:249:PHE:CD2	2:H:259:ARG:HG2	2.56	0.41
2:G:180:VAL:O	2:G:363:ILE:HA	2.21	0.41
1:F:338:PRO:HB2	1:F:341:MET:CG	2.50	0.41
1:F:357:TRP:HB2	1:F:424:VAL:HG21	2.02	0.41
3:E:38:GLN:HB2	3:E:41:GLN:CB	2.47	0.41
4:C:334:LEU:HA	4:C:337:GLN:CG	2.48	0.41
4:C:935:VAL:HG21	4:C:992:PRO:C	2.40	0.41
4:C:1111:PRO:CG	4:C:1114:LEU:HG	2.41	0.41
4:B:309:ARG:HB3	4:B:312:SER:HB2	2.03	0.41
4:B:361:MET:HB3	4:B:361:MET:HE2	1.98	0.41
4:B:705:TRP:CE2	4:B:709:ILE:HD11	2.55	0.41
4:B:755:LEU:HA	4:B:809:MET:CE	2.51	0.41
4:B:876:ALA:O	4:B:877:LEU:HD23	2.21	0.41
4:B:905:ILE:HA	4:B:908:MET:HB3	2.03	0.41
4:B:1230:GLU:HA	4:B:1246:GLN:HE22	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:A:200:TYR:CD1	5:A:232:HIS:HB3	2.55	0.41
5:A:485:LYS:O	5:A:489:VAL:HG13	2.20	0.41
5:A:693:SER:HB2	5:A:696:TYR:HB3	2.03	0.41
5:A:837:LEU:HD11	5:A:865:THR:HG21	2.02	0.41
1:K:120:PHE:O	1:K:243:ARG:NH2	2.54	0.41
1:K:145:ASP:N	1:K:162:GLN:H	2.18	0.41
1:K:250:MET:HB2	1:K:257:VAL:HG22	2.03	0.41
1:K:312:PHE:HE2	1:K:535:ALA:CB	2.30	0.41
1:K:347:ILE:N	1:K:359:PHE:O	2.33	0.41
1:K:405:GLN:H	1:K:421:GLN:C	2.24	0.41
1:K:485:GLN:OE1	1:F:436:SER:O	2.36	0.41
1:K:650:LYS:NZ	1:F:300:ILE:N	2.64	0.41
2:I:53:HIS:CB	1:F:581:TYR:OH	2.68	0.41
2:I:63:ARG:N	2:I:63:ARG:HD2	2.36	0.41
2:I:72:ARG:HB2	1:F:580:GLY:CA	2.46	0.41
2:I:243:VAL:HG22	2:I:349:PHE:CZ	2.56	0.41
2:I:331:ALA:HB3	2:I:332:PRO:HD3	2.02	0.41
2:H:340:LEU:H	2:H:340:LEU:HD13	1.86	0.41
2:G:186:ARG:N	2:G:186:ARG:CD	2.84	0.41
2:G:263:PRO:HG3	2:G:269:PRO:HG3	2.02	0.41
1:F:124:PHE:CG	1:F:188:TRP:CB	3.04	0.41
1:F:290:MET:HG2	1:F:635:LEU:HD13	2.03	0.41
1:F:357:TRP:CB	1:F:475:SER:HA	2.49	0.41
1:F:450:TYR:HE2	1:F:452:TYR:HB2	1.85	0.41
1:F:525:GLU:CD	1:F:525:GLU:N	2.74	0.41
1:F:541:ASP:O	1:F:545:LYS:HG3	2.21	0.41
1:F:653:SER:O	1:F:657:ILE:HG13	2.20	0.41
3:E:10:THR:HG21	3:E:77:GLN:NE2	2.36	0.41
3:E:83:ASN:HD22	3:E:85:ARG:HB2	1.85	0.41
3:E:120:GLN:HB3	3:E:123:ARG:HH11	1.86	0.41
3:E:179:LEU:HA	3:E:179:LEU:HD23	1.88	0.41
3:E:217:LEU:HD21	3:E:291:LEU:HD13	2.03	0.41
4:C:466:MET:HA	4:C:469:LEU:HD12	2.03	0.41
4:C:504:LEU:HB3	4:C:1264:THR:OG1	2.21	0.41
4:C:670:THR:H	4:C:673:ARG:HB2	1.86	0.41
4:C:951:TRP:CE2	4:C:1042:ARG:NH2	2.89	0.41
4:C:1020:ILE:O	4:C:1024:VAL:HG23	2.21	0.41
4:C:1031:PHE:O	4:C:1035:TYR:N	2.53	0.41
4:C:1160:TRP:HB2	4:C:1198:TYR:OH	2.21	0.41
4:B:373:ASN:HD21	4:B:462:ARG:HD2	1.86	0.41
4:B:381:ASP:O	4:B:388:GLY:HA2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:436:ARG:HB2	4:B:448:VAL:HG12	2.03	0.41
4:B:502:ASN:N	4:B:502:ASN:HD22	2.19	0.41
4:B:503:ARG:HB3	4:B:1265:PRO:HD2	2.03	0.41
4:B:654:ASN:HA	4:B:657:VAL:HG23	2.02	0.41
4:B:704:GLN:O	4:B:708:ILE:HG13	2.21	0.41
4:B:959:ALA:HB2	4:B:993:ARG:NH2	2.36	0.41
4:B:1032:ASN:HD21	4:B:1042:ARG:HH12	1.67	0.41
5:A:13:LEU:HD11	5:A:379:MET:CE	2.51	0.41
5:A:46:LEU:CD1	5:A:58:GLN:HB2	2.34	0.41
5:A:138:ILE:O	5:A:138:ILE:HG22	2.20	0.41
5:A:221:LEU:HD13	5:A:256:LEU:CG	2.51	0.41
5:A:434:ALA:HB1	5:A:645:VAL:HA	2.02	0.41
5:A:456:LEU:HD11	5:A:649:VAL:HG11	2.01	0.41
5:A:642:LYS:HD3	5:A:650:GLU:O	2.21	0.41
5:A:913:VAL:O	5:A:916:LYS:HB2	2.20	0.41
5:A:1044:ILE:CB	5:A:1087:TRP:HB2	2.37	0.41
5:A:1052:VAL:HG11	5:A:1066:GLU:HB2	2.03	0.41
1:K:298:PRO:HD2	1:K:632:LYS:HE3	2.03	0.41
2:I:313:TYR:CG	1:F:505:VAL:CG1	2.99	0.41
2:I:326:ARG:CB	2:I:326:ARG:CZ	2.99	0.41
2:G:30:GLU:HB3	2:G:33:ASP:HB3	2.03	0.41
1:F:99:PRO:O	1:F:167:THR:HG22	2.21	0.41
1:F:250:MET:CB	1:F:257:VAL:HG22	2.51	0.41
3:E:36:PRO:HG2	3:E:72:LEU:HD21	2.03	0.41
3:E:273:MET:O	3:E:273:MET:HG3	2.21	0.41
4:C:466:MET:HE2	4:C:466:MET:O	2.20	0.41
4:C:490:TYR:HE2	4:C:898:ASN:HA	1.82	0.41
4:C:1085:PHE:CE2	4:B:285:PHE:CA	2.88	0.41
4:C:1113:ALA:O	4:C:1117:MET:HG3	2.21	0.41
4:C:1167:LEU:O	4:C:1170:ILE:HB	2.20	0.41
4:B:516:ILE:HG12	4:B:1013:PRO:HB3	2.03	0.41
4:B:597:GLY:O	4:B:601:ASN:N	2.54	0.41
4:B:669:TYR:HB3	4:B:678:PHE:CE2	2.57	0.41
4:B:1051:GLN:HA	4:B:1195:ALA:O	2.21	0.41
5:A:359:SER:OG	5:A:361:VAL:HG23	2.20	0.41
5:A:481:ARG:O	5:A:484:VAL:HG22	2.21	0.41
5:A:635:ILE:HG22	5:A:658:VAL:HA	2.03	0.41
5:A:815:VAL:O	5:A:819:VAL:N	2.54	0.41
1:K:410:PHE:HB3	1:K:467:TYR:CE2	2.56	0.40
1:K:545:LYS:HG3	1:K:545:LYS:H	1.75	0.40
1:K:633:THR:O	1:K:637:THR:N	2.39	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:26:TYR:HA	2:G:31:GLY:O	2.21	0.40
2:G:197:LEU:HB3	2:G:201:ALA:C	2.42	0.40
1:F:282:LYS:HB3	1:F:641:SER:O	2.20	0.40
3:E:2:ALA:HB2	3:E:205:HIS:CB	2.49	0.40
3:E:231:GLN:HA	3:E:259:HIS:CD2	2.57	0.40
4:C:248:LEU:HD23	4:C:248:LEU:C	2.41	0.40
4:C:302:SER:O	4:C:1209:LEU:HD12	2.20	0.40
4:C:828:PHE:CD1	4:C:829:PRO:HD2	2.56	0.40
4:C:1147:MET:HE2	4:C:1179:PRO:HA	2.01	0.40
4:B:849:VAL:H	4:B:869:THR:N	2.02	0.40
4:B:1012:ILE:HA	4:B:1013:PRO:HD3	1.90	0.40
4:B:1075:HIS:HB2	4:B:1108:TRP:CD1	2.55	0.40
5:A:171:LYS:HD3	5:A:172:TYR:CE1	2.56	0.40
5:A:240:GLN:OE1	5:A:248:ILE:HG22	2.19	0.40
5:A:430:TRP:HA	5:A:1000:THR:HG23	2.02	0.40
5:A:485:LYS:HG2	5:A:643:PRO:HB2	2.03	0.40
5:A:870:LEU:HD12	5:A:870:LEU:O	2.20	0.40
5:A:948:ARG:HA	5:A:959:PRO:C	2.41	0.40
5:A:1035:ILE:HD12	5:A:1038:GLN:HG3	2.02	0.40
5:A:1240:VAL:O	5:A:1247:ILE:N	2.54	0.40
1:K:296:ALA:CB	1:K:546:ILE:HD11	2.50	0.40
1:K:362:ARG:NH2	1:K:483:MET:O	2.54	0.40
1:K:565:SER:HA	1:K:568:ILE:HD12	2.02	0.40
2:I:195:VAL:HG21	2:I:356:VAL:HB	2.02	0.40
2:H:71:HIS:NE2	2:H:73:CYS:HB2	2.36	0.40
1:F:153:ARG:NH1	1:F:153:ARG:CB	2.84	0.40
1:F:461:ASP:O	1:F:464:MET:HB2	2.22	0.40
3:E:29:LEU:HD11	3:E:67:GLN:HB3	2.03	0.40
3:E:90:ARG:CB	3:E:107:ALA:HB2	2.51	0.40
3:E:130:TYR:CE2	3:E:132:PHE:CD1	3.10	0.40
3:E:192:TYR:OH	4:B:471:ARG:HD3	2.20	0.40
4:C:436:ARG:HA	4:C:448:VAL:HG23	2.04	0.40
4:C:704:GLN:HE21	4:C:704:GLN:HB2	1.63	0.40
4:C:829:PRO:HA	4:C:830:PRO:HD3	1.95	0.40
4:C:862:LEU:N	4:B:443:ALA:HB2	2.35	0.40
4:C:1062:PRO:HB2	4:C:1065:LEU:HG	2.02	0.40
4:C:1082:ARG:HD3	4:B:413:THR:HB	2.04	0.40
4:C:1085:PHE:HD2	4:B:285:PHE:HB2	1.83	0.40
4:C:1230:GLU:CB	4:C:1250:VAL:HG21	2.51	0.40
4:C:1241:PRO:CG	4:C:1244:GLN:HB2	2.34	0.40
4:B:254:ARG:HG3	4:B:254:ARG:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:265:SER:CA	4:B:308:THR:HA	2.50	0.40
4:B:293:GLN:HE21	4:B:293:GLN:HB3	1.52	0.40
4:B:846:MET:HE1	4:B:1002:GLN:HB2	2.03	0.40
4:B:991:ASP:OD2	4:B:991:ASP:C	2.59	0.40
5:A:62:PRO:O	5:A:63:LEU:HB2	2.22	0.40
5:A:459:THR:HA	5:A:462:ASP:CG	2.42	0.40
5:A:478:ILE:HG12	5:A:479:GLY:N	2.37	0.40
5:A:497:ILE:HG12	5:A:504:GLU:HA	2.02	0.40
5:A:694:PHE:C	5:A:694:PHE:HD2	2.25	0.40
5:A:706:ILE:HG23	5:A:756:SER:O	2.21	0.40
5:A:770:ARG:HB3	5:A:771:TYR:CD1	2.56	0.40
5:A:828:LEU:N	5:A:887:THR:O	2.55	0.40
5:A:927:ASN:O	5:A:960:TYR:HB2	2.22	0.40
5:A:947:LYS:O	5:A:960:TYR:N	2.43	0.40
5:A:979:ILE:HG12	5:A:1021:ILE:CG1	2.45	0.40
5:A:1063:PHE:HD2	5:A:1073:ILE:CD1	2.34	0.40
5:A:1096:ALA:HA	5:A:1119:VAL:HB	2.02	0.40
1:K:227:SER:O	1:K:231:ARG:NH2	2.54	0.40
1:K:435:SER:HB3	1:K:442:ILE:CB	2.42	0.40
2:I:154:GLN:O	2:I:156:VAL:HG23	2.21	0.40
2:I:192:PHE:CD2	2:I:206:PHE:CG	3.09	0.40
2:I:234:LYS:HA	2:I:238:TYR:CG	2.56	0.40
2:H:19:PHE:CD2	2:H:291:LYS:HE2	2.55	0.40
2:H:41:ASP:HA	2:H:53:HIS:CD2	2.57	0.40
2:H:231:ASP:HA	2:H:232:PRO:HD3	1.88	0.40
2:H:337:PRO:HB2	2:H:340:LEU:HD13	2.03	0.40
2:G:258:SER:N	2:G:343:PHE:HA	2.37	0.40
1:F:607:PRO:O	1:F:610:ILE:HG23	2.21	0.40
3:E:48:LEU:HD22	3:E:248:ALA:HA	2.02	0.40
3:E:52:LEU:HD21	3:E:281:MET:O	2.21	0.40
3:E:93:ARG:HB3	3:E:112:LEU:CD2	2.52	0.40
3:E:167:ASP:HB3	3:E:170:MET:CE	2.50	0.40
3:E:335:MET:HA	3:E:338:GLU:HG2	2.03	0.40
3:E:354:GLN:O	3:E:358:GLU:HG3	2.20	0.40
3:E:383:ASN:HD21	3:E:391:MET:H	1.69	0.40
4:C:906:TYR:HB3	4:C:907:PRO:CD	2.51	0.40
4:C:1104:PHE:HD2	4:C:1126:PHE:CD2	2.36	0.40
4:C:1154:ARG:HA	4:C:1193:ALA:N	2.36	0.40
4:C:1189:ASP:HA	4:C:1221:ALA:CB	2.51	0.40
4:C:1211:CYS:SG	4:C:1212:THR:N	2.94	0.40
4:B:503:ARG:HB3	4:B:1265:PRO:CG	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:B:521:ARG:HE	4:B:521:ARG:HB2	1.74	0.40
4:B:1160:TRP:HB2	4:B:1198:TYR:CE1	2.57	0.40
5:A:114:PHE:CE1	5:A:229:ASN:HB3	2.56	0.40
5:A:227:PRO:HG2	5:A:227:PRO:O	2.22	0.40
5:A:271:ARG:HA	5:A:271:ARG:HD3	1.95	0.40
5:A:379:MET:HE3	5:A:379:MET:HB2	1.90	0.40
5:A:446:ARG:O	5:A:668:SER:N	2.45	0.40
5:A:1055:CYS:O	5:A:1061:LEU:HD12	2.21	0.40
5:A:1143:VAL:H	5:A:1182:VAL:HG13	1.86	0.40
1:K:57:VAL:CG2	1:K:63:LEU:HD23	2.35	0.40
2:I:195:VAL:HG11	2:I:356:VAL:HG21	2.02	0.40
2:H:74:ASN:OD1	2:H:75:GLN:N	2.54	0.40
2:H:224:ASP:HA	2:H:357:MET:HE2	2.03	0.40
2:G:93:ALA:HB1	2:G:97:ARG:NH1	2.36	0.40
1:F:43:PRO:HG2	1:F:103:VAL:O	2.20	0.40
1:F:374:ALA:HB1	1:F:499:SER:HB3	2.03	0.40
3:E:6:PHE:HB3	3:E:144:TYR:CE1	2.57	0.40
3:E:32:ALA:HB1	4:B:929:GLN:NE2	2.36	0.40
3:E:90:ARG:HH12	3:E:116:ALA:HB2	1.87	0.40
4:C:436:ARG:CB	4:C:448:VAL:HG23	2.52	0.40
4:C:473:ASN:ND2	4:C:505:MET:H	2.19	0.40
4:C:685:PRO:HD2	4:C:688:PHE:CG	2.57	0.40
4:C:935:VAL:HG21	4:C:993:ARG:HA	2.03	0.40
4:C:1209:LEU:O	4:C:1225:LYS:HE2	2.22	0.40
4:B:423:VAL:O	4:B:428:ARG:NH2	2.52	0.40
4:B:713:TRP:CD1	4:B:837:ARG:HG3	2.44	0.40
4:B:1035:TYR:HE1	4:B:1205:ASN:OD1	2.03	0.40
4:B:1057:SER:HB3	4:B:1060:ALA:CA	2.51	0.40
4:B:1074:VAL:HA	4:B:1107:ASN:C	2.41	0.40
5:A:456:LEU:CD1	5:A:649:VAL:HG21	2.51	0.40
1:K:358:HIS:CD2	1:K:477:ALA:HB2	2.54	0.40
2:I:25:ILE:CG2	2:I:40:PRO:HB3	2.49	0.40
2:I:239:ARG:HA	2:I:243:VAL:HB	2.04	0.40
2:H:253:GLY:HA2	2:H:275:MET:HE2	2.04	0.40
2:H:354:TYR:CD1	2:H:354:TYR:N	2.90	0.40
2:G:154:GLN:HG2	2:G:155:VAL:N	2.35	0.40
1:F:173:MET:O	1:F:173:MET:CE	2.69	0.40
1:F:398:LYS:HE2	1:F:429:GLN:HB2	2.03	0.40
3:E:36:PRO:CG	3:E:72:LEU:HD21	2.51	0.40
3:E:78:ILE:HA	3:E:117:LEU:HD22	2.02	0.40
3:E:108:PRO:CD	3:E:111:VAL:HB	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:E:226:GLY:HA2	3:E:339:PHE:HD1	1.86	0.40
3:E:238:TYR:HE2	3:E:256:SER:N	2.19	0.40
4:C:381:ASP:HB3	4:C:386:THR:O	2.21	0.40
4:C:393:SER:HA	4:C:403:TYR:OH	2.22	0.40
4:C:650:MET:O	4:C:654:ASN:ND2	2.54	0.40
4:C:666:ASN:ND2	4:C:668:ILE:H	2.20	0.40
4:C:1059:LEU:O	4:C:1204:TYR:HA	2.22	0.40
4:C:1083:ILE:HD13	4:C:1125:GLN:HG3	2.04	0.40
4:C:1230:GLU:HB3	4:C:1246:GLN:OE1	2.21	0.40
4:B:927:ALA:HB3	4:B:983:LEU:HD11	2.03	0.40
4:B:945:VAL:HG22	4:B:946:ASP:N	2.36	0.40
4:B:949:LEU:HD21	4:B:1028:ALA:O	2.21	0.40
4:B:1083:ILE:HG21	4:B:1104:PHE:HZ	1.86	0.40
5:A:138:ILE:O	5:A:138:ILE:CG2	2.68	0.40
5:A:172:TYR:CG	5:A:187:LEU:HD22	2.57	0.40
5:A:187:LEU:HD13	5:A:191:ASP:HB3	2.01	0.40
5:A:276:VAL:HG21	5:A:279:LEU:HD23	2.04	0.40
5:A:632:LEU:O	5:A:662:SER:OG	2.39	0.40
5:A:707:GLU:OE1	5:A:707:GLU:HA	2.22	0.40
5:A:809:MET:HE3	5:A:990:TRP:HZ3	1.87	0.40
5:A:888:CYS:CB	5:A:924:VAL:HG13	2.50	0.40
5:A:923:LEU:HD12	5:A:923:LEU:N	2.36	0.40
5:A:1097:GLY:O	5:A:1119:VAL:N	2.42	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	F	604/633 (95%)	593 (98%)	11 (2%)	0	100	100
1	K	604/633 (95%)	598 (99%)	5 (1%)	1 (0%)	44	78

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	G	363/365 (100%)	359 (99%)	3 (1%)	1 (0%)	37 73
2	H	363/365 (100%)	357 (98%)	6 (2%)	0	100 100
2	I	363/365 (100%)	360 (99%)	3 (1%)	0	100 100
3	E	415/417 (100%)	407 (98%)	7 (2%)	1 (0%)	44 78
4	B	1027/1059 (97%)	1014 (99%)	12 (1%)	1 (0%)	48 83
4	C	1047/1059 (99%)	1026 (98%)	21 (2%)	0	100 100
5	A	1280/1288 (99%)	1244 (97%)	28 (2%)	8 (1%)	22 60
All	All	6066/6184 (98%)	5958 (98%)	96 (2%)	12 (0%)	45 78

All (12) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
5	A	62	PRO
1	K	374	ALA
3	E	52	LEU
4	B	439	MET
5	A	1109	ALA
2	G	231	ASP
5	A	152	SER
5	A	398	PRO
5	A	857	PRO
5	A	1223	PRO
5	A	166	VAL
5	A	421	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	F	513/534 (96%)	493 (96%)	20 (4%)	27 48
1	K	513/534 (96%)	462 (90%)	51 (10%)	6 21
2	G	317/317 (100%)	288 (91%)	29 (9%)	7 24

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	H	317/317 (100%)	302 (95%)	15 (5%)	22 44
2	I	317/317 (100%)	302 (95%)	15 (5%)	22 44
3	E	352/352 (100%)	319 (91%)	33 (9%)	7 23
4	B	911/938 (97%)	838 (92%)	73 (8%)	10 29
4	C	930/938 (99%)	846 (91%)	84 (9%)	8 24
5	A	1118/1120 (100%)	986 (88%)	132 (12%)	4 16
All	All	5288/5367 (98%)	4836 (92%)	452 (8%)	11 27

All (452) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K	43	PRO
1	K	48	TRP
1	K	71	ILE
1	K	100	LEU
1	K	104	THR
1	K	105	GLU
1	K	106	HIS
1	K	122	ARG
1	K	128	LEU
1	K	145	ASP
1	K	173	MET
1	K	179	GLN
1	K	188	TRP
1	K	203	VAL
1	K	207	GLU
1	K	212	MET
1	K	223	LEU
1	K	231	ARG
1	K	253	SER
1	K	281	GLU
1	K	282	LYS
1	K	284	LYS
1	K	299	GLU
1	K	304	LEU
1	K	324	ARG
1	K	334	LEU
1	K	337	ILE
1	K	347	ILE
1	K	358	HIS

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Mol	Chain	Res	Type
1	K	360	ASN
1	K	362	ARG
1	K	378	PHE
1	K	382	LEU
1	K	392	TRP
1	K	395	ASN
1	K	404	PHE
1	K	430	LEU
1	K	431	TYR
1	K	451	ASN
1	K	452	TYR
1	K	472	PHE
1	K	505	VAL
1	K	523	THR
1	K	537	ARG
1	K	576	GLN
1	K	584	ARG
1	K	598	ARG
1	K	618	LEU
1	K	624	TRP
1	K	658	GLN
1	K	664	PHE
2	I	1	MET
2	I	7	ASN
2	I	13	ASP
2	I	63	ARG
2	I	72	ARG
2	I	84	ASP
2	I	87	PHE
2	I	175	ASP
2	I	213	ARG
2	I	217	GLU
2	I	229	GLU
2	I	345	ASP
2	I	353	ASP
2	I	357	MET
2	I	362	MET
2	H	51	CYS
2	H	63	ARG
2	H	84	ASP
2	H	109	MET
2	H	159	LEU

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Mol	Chain	Res	Type
2	H	175	ASP
2	H	200	ASP
2	H	217	GLU
2	H	229	GLU
2	H	295	VAL
2	H	340	LEU
2	H	345	ASP
2	H	357	MET
2	H	362	MET
2	H	363	ILE
2	G	23	VAL
2	G	42	MET
2	G	45	CYS
2	G	58	VAL
2	G	63	ARG
2	G	66	LYS
2	G	67	HIS
2	G	75	GLN
2	G	84	ASP
2	G	128	LEU
2	G	132	ASN
2	G	139	ASN
2	G	141	MET
2	G	159	LEU
2	G	198	GLU
2	G	217	GLU
2	G	221	MET
2	G	227	GLU
2	G	228	LEU
2	G	236	ARG
2	G	238	TYR
2	G	273	SER
2	G	303	ASN
2	G	326	ARG
2	G	343	PHE
2	G	345	ASP
2	G	353	ASP
2	G	357	MET
2	G	362	MET
1	F	46	VAL
1	F	67	THR
1	F	98	GLU

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Mol	Chain	Res	Type
1	F	105	GLU
1	F	123	GLU
1	F	127	LYS
1	F	143	TYR
1	F	145	ASP
1	F	153	ARG
1	F	173	MET
1	F	262	VAL
1	F	284	LYS
1	F	324	ARG
1	F	358	HIS
1	F	360	ASN
1	F	455	GLU
1	F	458	ASN
1	F	506	LYS
1	F	658	GLN
1	F	664	PHE
3	E	7	LEU
3	E	17	GLN
3	E	22	ASN
3	E	31	ARG
3	E	41	GLN
3	E	43	LEU
3	E	44	ASP
3	E	46	ILE
3	E	50	ARG
3	E	101	LEU
3	E	126	ASP
3	E	138	ARG
3	E	154	ASN
3	E	176	ASN
3	E	182	TYR
3	E	183	PHE
3	E	185	HIS
3	E	201	ARG
3	E	204	GLU
3	E	215	ILE
3	E	234	TYR
3	E	241	CYS
3	E	271	PHE
3	E	304	ILE
3	E	325	ASN

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Mol	Chain	Res	Type
3	E	327	LEU
3	E	330	PHE
3	E	333	ARG
3	E	346	ASP
3	E	350	THR
3	E	363	GLN
3	E	386	ASN
3	E	391	MET
4	C	217	GLN
4	C	221	THR
4	C	229	ASN
4	C	251	ASP
4	C	252	THR
4	C	254	ARG
4	C	257	THR
4	C	263	CYS
4	C	266	PHE
4	C	301	VAL
4	C	302	SER
4	C	370	LEU
4	C	376	THR
4	C	378	PHE
4	C	394	LEU
4	C	407	TYR
4	C	410	ARG
4	C	411	MET
4	C	429	ASN
4	C	431	VAL
4	C	439	MET
4	C	455	ASP
4	C	475	ASN
4	C	477	THR
4	C	491	VAL
4	C	502	ASN
4	C	503	ARG
4	C	508	ARG
4	C	528	ASN
4	C	549	LEU
4	C	580	LYS
4	C	601	ASN
4	C	613	TYR
4	C	615	LYS

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Mol	Chain	Res	Type
4	C	620	VAL
4	C	624	GLU
4	C	662	ILE
4	C	665	ASP
4	C	680	THR
4	C	688	PHE
4	C	689	MET
4	C	751	THR
4	C	763	ASN
4	C	765	ARG
4	C	777	ASP
4	C	780	ARG
4	C	782	GLN
4	C	792	SER
4	C	814	LEU
4	C	859	GLN
4	C	868	ASN
4	C	870	THR
4	C	895	LEU
4	C	903	ASP
4	C	935	VAL
4	C	948	TYR
4	C	968	TRP
4	C	993	ARG
4	C	1002	GLN
4	C	1007	ARG
4	C	1019	VAL
4	C	1032	ASN
4	C	1036	ASN
4	C	1044	ASP
4	C	1066	VAL
4	C	1104	PHE
4	C	1126	PHE
4	C	1135	LEU
4	C	1141	MET
4	C	1151	TYR
4	C	1160	TRP
4	C	1162	LEU
4	C	1185	SER
4	C	1189	ASP
4	C	1198	TYR
4	C	1200	ILE

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Mol	Chain	Res	Type
4	C	1204	TYR
4	C	1206	ASP
4	C	1224	ASP
4	C	1230	GLU
4	C	1254	TYR
4	C	1255	ASN
4	C	1256	VAL
4	C	1260	TYR
4	B	242	LYS
4	B	249	HIS
4	B	251	ASP
4	B	254	ARG
4	B	256	VAL
4	B	263	CYS
4	B	281	LEU
4	B	293	GLN
4	B	302	SER
4	B	313	ASN
4	B	340	ASN
4	B	353	MET
4	B	374	ARG
4	B	386	THR
4	B	387	GLU
4	B	391	LEU
4	B	415	ASN
4	B	439	MET
4	B	455	ASP
4	B	492	THR
4	B	524	ASN
4	B	538	ASP
4	B	540	SER
4	B	580	LYS
4	B	599	LEU
4	B	601	ASN
4	B	615	LYS
4	B	624	GLU
4	B	636	LEU
4	B	641	ASP
4	B	674	ARG
4	B	686	ARG
4	B	702	LEU
4	B	767	ARG

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Mol	Chain	Res	Type
4	B	770	GLU
4	B	779	GLN
4	B	786	THR
4	B	814	LEU
4	B	825	MET
4	B	833	VAL
4	B	851	ARG
4	B	880	ARG
4	B	911	ASP
4	B	920	ARG
4	B	922	MET
4	B	939	SER
4	B	940	GLU
4	B	942	GLN
4	B	943	TYR
4	B	947	ARG
4	B	956	ARG
4	B	961	THR
4	B	967	GLU
4	B	973	MET
4	B	981	ASP
4	B	989	SER
4	B	996	GLN
4	B	1012	ILE
4	B	1032	ASN
4	B	1064	ASP
4	B	1080	ASP
4	B	1085	PHE
4	B	1093	MET
4	B	1095	ARG
4	B	1158	ASN
4	B	1182	VAL
4	B	1206	ASP
4	B	1230	GLU
4	B	1231	ARG
4	B	1243	THR
4	B	1249	GLU
4	B	1252	ASP
4	B	1260	TYR
5	A	3	ASN
5	A	4	VAL
5	A	5	TRP

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Mol	Chain	Res	Type
5	A	11	ASP
5	A	13	LEU
5	A	14	SER
5	A	21	ARG
5	A	24	GLN
5	A	27	LEU
5	A	40	ARG
5	A	41	GLU
5	A	48	ASN
5	A	60	PHE
5	A	80	ASP
5	A	105	ASN
5	A	106	TYR
5	A	111	VAL
5	A	124	LEU
5	A	138	ILE
5	A	147	LEU
5	A	155	GLN
5	A	156	PHE
5	A	160	HIS
5	A	165	GLU
5	A	166	VAL
5	A	175	MET
5	A	199	PHE
5	A	203	THR
5	A	205	GLU
5	A	221	LEU
5	A	239	THR
5	A	247	TYR
5	A	263	GLN
5	A	269	ARG
5	A	290	GLN
5	A	294	GLU
5	A	295	ASP
5	A	323	THR
5	A	332	SER
5	A	344	LEU
5	A	350	TYR
5	A	367	TYR
5	A	374	GLN
5	A	380	ARG
5	A	389	ASP

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Mol	Chain	Res	Type
5	A	401	THR
5	A	413	MET
5	A	416	ARG
5	A	417	LEU
5	A	448	VAL
5	A	455	GLN
5	A	483	LEU
5	A	507	ARG
5	A	511	SER
5	A	526	GLN
5	A	552	TYR
5	A	553	ASP
5	A	562	LEU
5	A	583	ASP
5	A	617	ASN
5	A	620	THR
5	A	626	TYR
5	A	644	PHE
5	A	648	ASN
5	A	650	GLU
5	A	671	TYR
5	A	680	ARG
5	A	682	GLU
5	A	690	GLN
5	A	694	PHE
5	A	704	THR
5	A	712	GLU
5	A	713	ASN
5	A	716	PHE
5	A	719	MET
5	A	721	GLN
5	A	739	LYS
5	A	743	ILE
5	A	750	ARG
5	A	771	TYR
5	A	794	LEU
5	A	804	HIS
5	A	833	GLU
5	A	851	ILE
5	A	862	ASN
5	A	864	ARG
5	A	865	THR

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Mol	Chain	Res	Type
5	A	869	GLU
5	A	871	ASP
5	A	872	TYR
5	A	873	LEU
5	A	878	ILE
5	A	904	ASP
5	A	910	LEU
5	A	917	SER
5	A	920	ASN
5	A	934	ARG
5	A	940	LEU
5	A	954	PHE
5	A	968	LYS
5	A	980	THR
5	A	981	TRP
5	A	986	TYR
5	A	991	THR
5	A	992	ARG
5	A	1008	ILE
5	A	1020	ARG
5	A	1028	MET
5	A	1031	ARG
5	A	1051	ASP
5	A	1054	ASN
5	A	1056	TYR
5	A	1057	PHE
5	A	1066	GLU
5	A	1079	GLN
5	A	1080	PHE
5	A	1091	MET
5	A	1108	ASN
5	A	1123	ASP
5	A	1125	ASP
5	A	1138	ILE
5	A	1141	THR
5	A	1153	LEU
5	A	1156	PHE
5	A	1171	PHE
5	A	1205	ASP
5	A	1215	GLN
5	A	1216	LEU
5	A	1228	LEU

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Mol	Chain	Res	Type
5	A	1234	ASP
5	A	1235	MET
5	A	1246	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (149) such sidechains are listed below:

Mol	Chain	Res	Type
1	K	248	GLN
1	K	346	GLN
1	K	356	ASN
1	K	358	HIS
1	K	360	ASN
1	K	456	GLN
2	I	9	HIS
2	I	39	GLN
2	I	76	GLN
2	I	94	HIS
2	I	111	ASN
2	I	132	ASN
2	I	171	ASN
2	I	190	HIS
2	I	303	ASN
2	H	7	ASN
2	H	53	HIS
2	H	94	HIS
2	H	111	ASN
2	H	132	ASN
2	H	279	ASN
2	H	303	ASN
2	G	7	ASN
2	G	9	HIS
2	G	75	GLN
2	G	79	HIS
2	G	111	ASN
2	G	132	ASN
2	G	146	HIS
2	G	303	ASN
1	F	248	GLN
1	F	369	ASN
1	F	587	ASN
1	F	613	GLN
3	E	18	ASN

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Mol	Chain	Res	Type
3	E	22	ASN
3	E	41	GLN
3	E	145	GLN
3	E	154	ASN
3	E	176	ASN
3	E	229	HIS
3	E	230	GLN
3	E	325	ASN
3	E	355	ASN
3	E	365	GLN
3	E	383	ASN
3	E	386	ASN
4	C	219	HIS
4	C	229	ASN
4	C	234	GLN
4	C	278	GLN
4	C	360	HIS
4	C	380	GLN
4	C	390	ASN
4	C	429	ASN
4	C	438	GLN
4	C	473	ASN
4	C	518	GLN
4	C	524	ASN
4	C	528	ASN
4	C	544	GLN
4	C	625	ASN
4	C	654	ASN
4	C	682	HIS
4	C	704	GLN
4	C	731	ASN
4	C	763	ASN
4	C	774	ASN
4	C	779	GLN
4	C	1002	GLN
4	C	1010	ASN
4	C	1025	GLN
4	C	1032	ASN
4	C	1116	GLN
4	C	1149	HIS
4	C	1158	ASN
4	C	1205	ASN

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Mol	Chain	Res	Type
4	B	246	GLN
4	B	278	GLN
4	B	293	GLN
4	B	313	ASN
4	B	331	ASN
4	B	360	HIS
4	B	415	ASN
4	B	502	ASN
4	B	518	GLN
4	B	527	ASN
4	B	537	GLN
4	B	601	ASN
4	B	654	ASN
4	B	704	GLN
4	B	718	GLN
4	B	731	ASN
4	B	749	ASN
4	B	774	ASN
4	B	778	ASN
4	B	782	GLN
4	B	813	GLN
4	B	852	GLN
4	B	898	ASN
4	B	996	GLN
4	B	1032	ASN
4	B	1051	GLN
4	B	1116	GLN
4	B	1123	ASN
4	B	1188	HIS
4	B	1205	ASN
4	B	1213	ASN
4	B	1255	ASN
5	A	3	ASN
5	A	24	GLN
5	A	37	ASN
5	A	49	GLN
5	A	58	GLN
5	A	64	GLN
5	A	71	GLN
5	A	110	HIS
5	A	117	ASN
5	A	139	ASN

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Mol	Chain	Res	Type
5	A	160	HIS
5	A	174	GLN
5	A	223	HIS
5	A	267	ASN
5	A	281	GLN
5	A	290	GLN
5	A	310	ASN
5	A	313	GLN
5	A	333	GLN
5	A	347	GLN
5	A	352	GLN
5	A	385	GLN
5	A	419	GLN
5	A	466	GLN
5	A	510	GLN
5	A	580	GLN
5	A	634	ASN
5	A	648	ASN
5	A	713	ASN
5	A	721	GLN
5	A	733	ASN
5	A	812	ASN
5	A	856	GLN
5	A	862	ASN
5	A	908	GLN
5	A	1033	ASN
5	A	1079	GLN
5	A	1162	GLN
5	A	1251	ASN
5	A	1253	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 oligosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

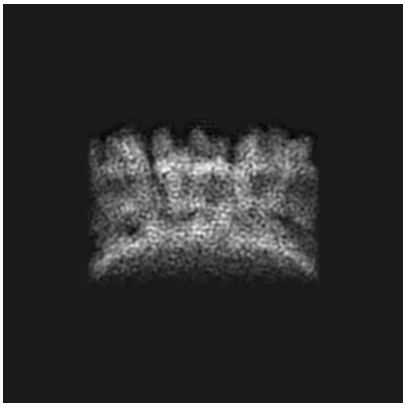
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-22166. These allow visual inspection of the internal detail of the map and identification of artifacts.

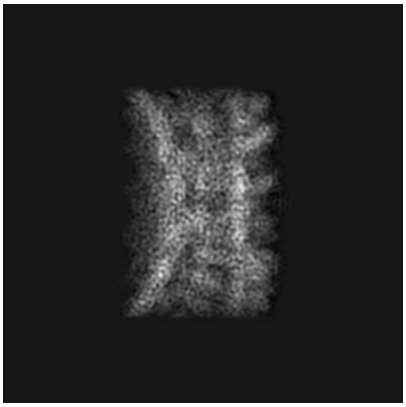
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

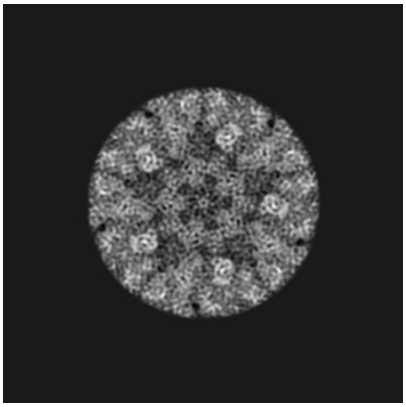
6.1.1 Primary map



X



Y

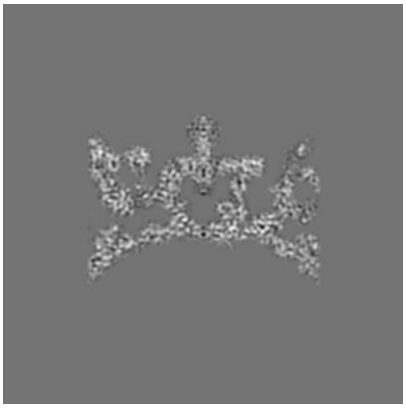


Z

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

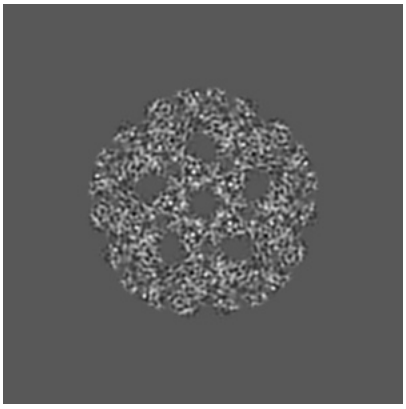
6.2 Central slices

6.2.1 Primary map



X Index: 180

Y Index: 180



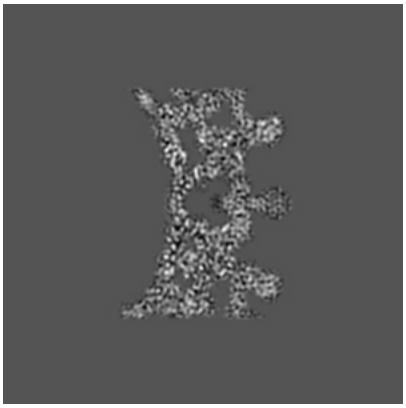
Z Index: 180

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

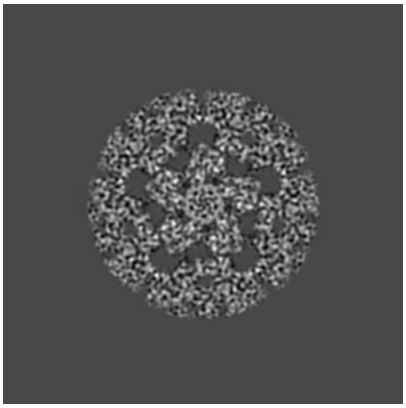
6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 195



Y Index: 176

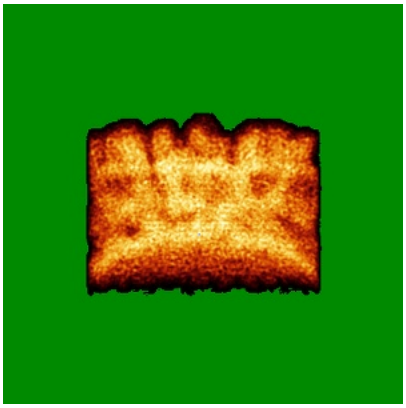


Z Index: 213

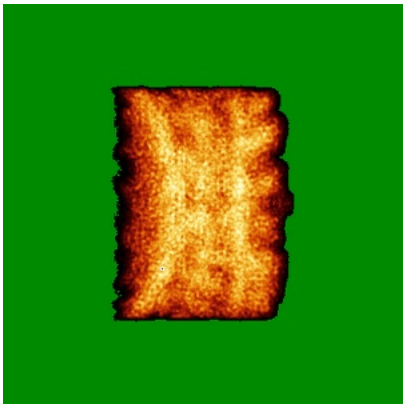
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

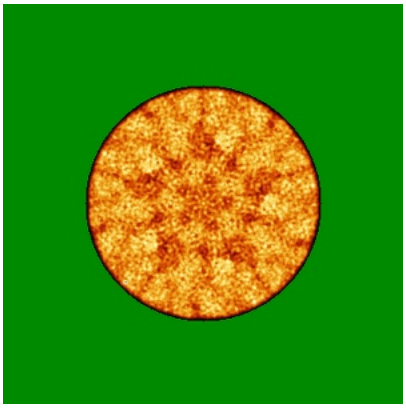
6.4.1 Primary map



X



Y

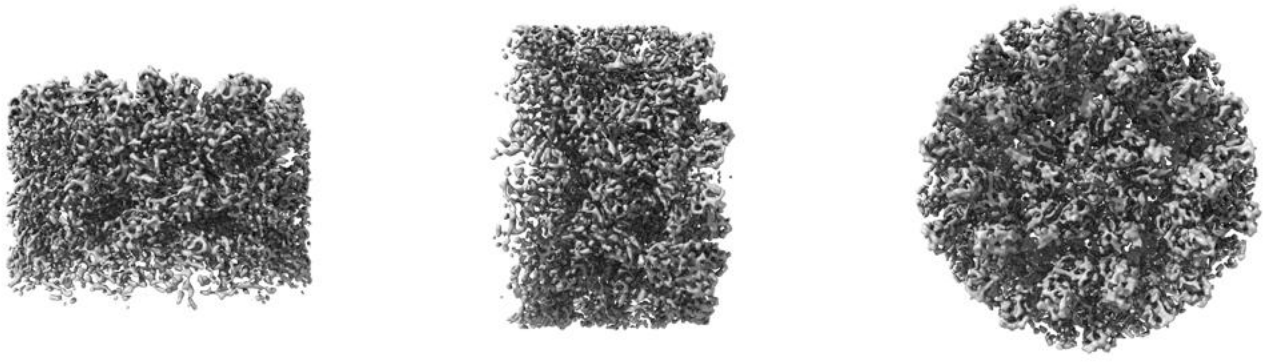


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 2.7. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

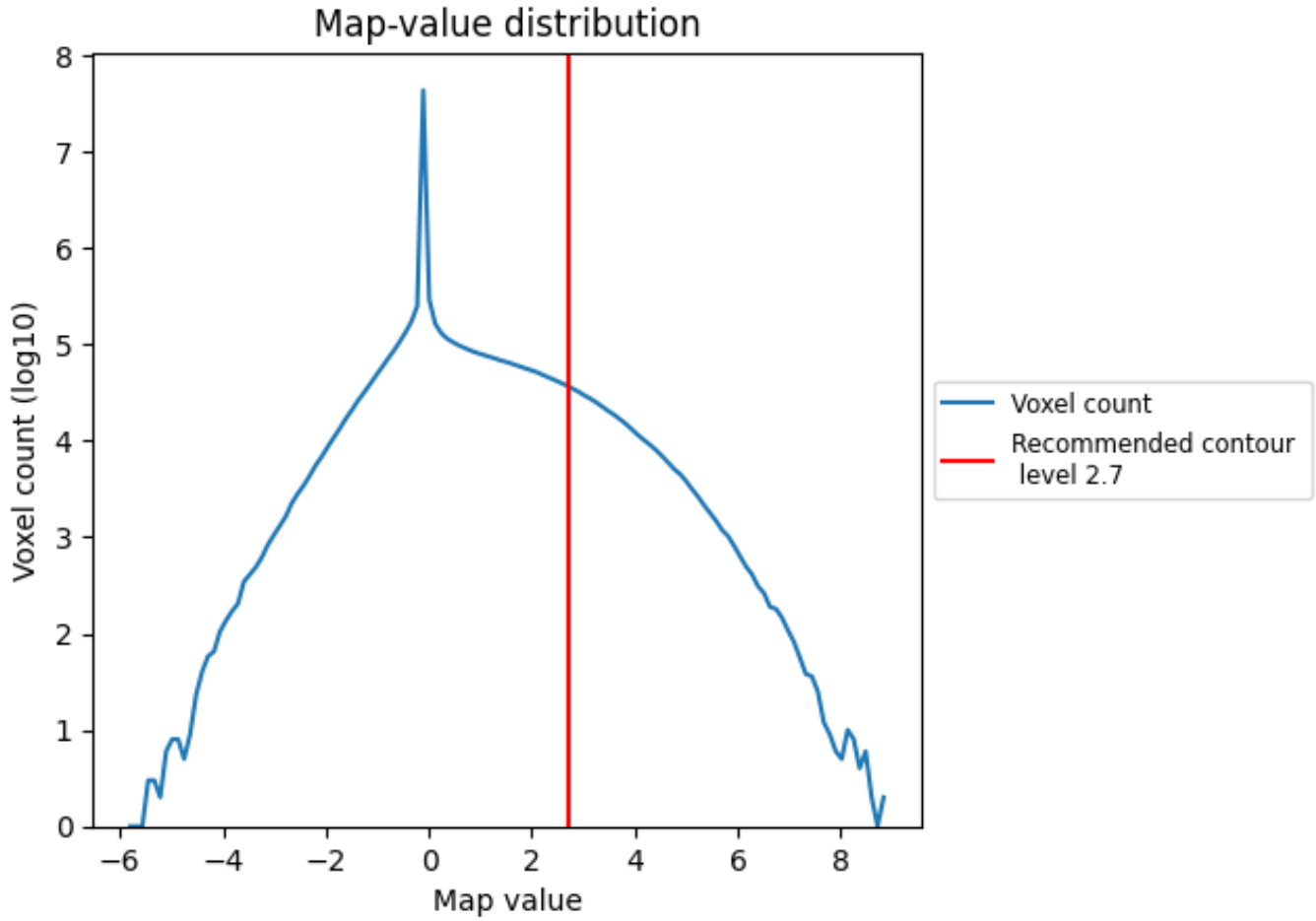
6.6 Mask visualisation (i)

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

7 Map analysis

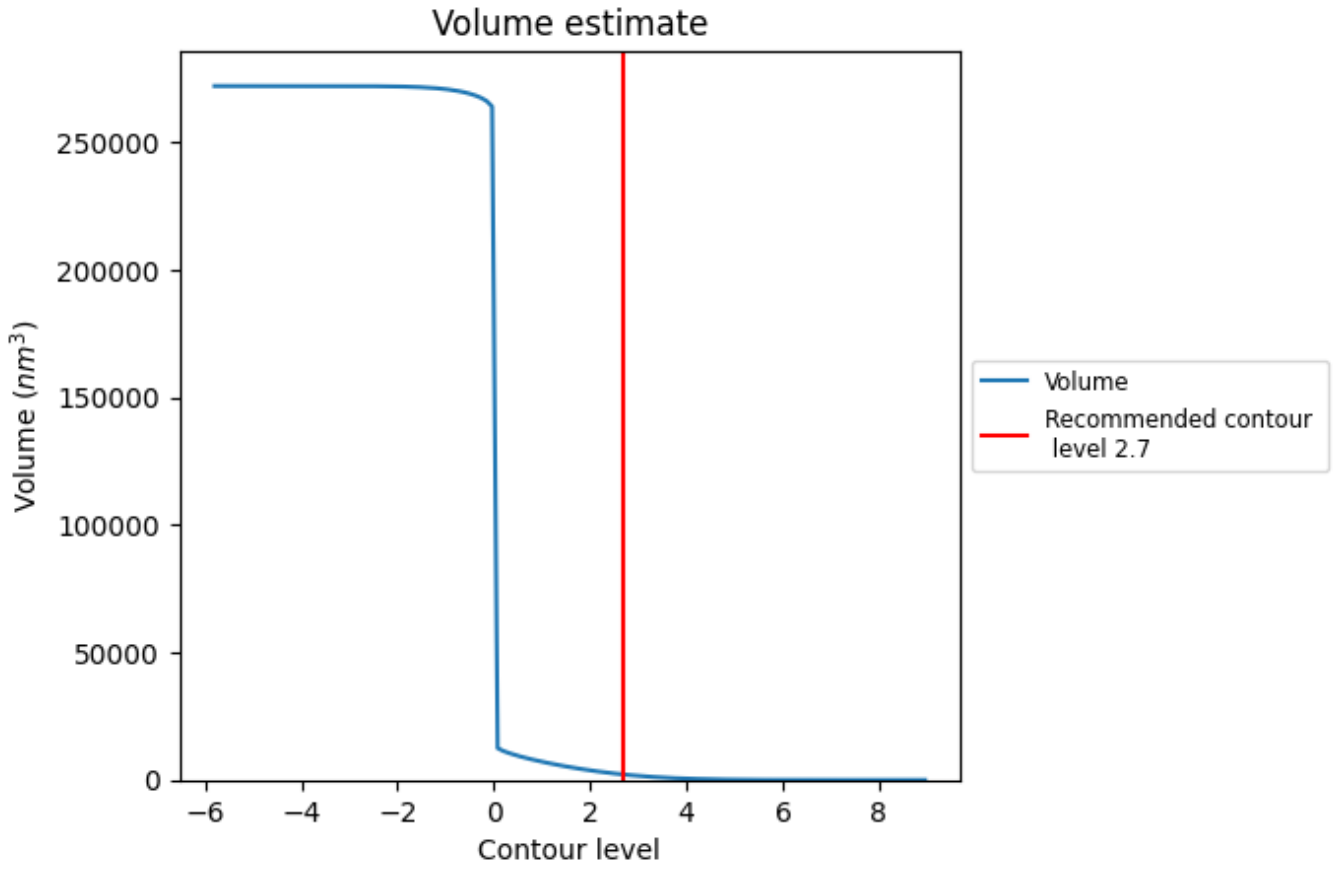
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

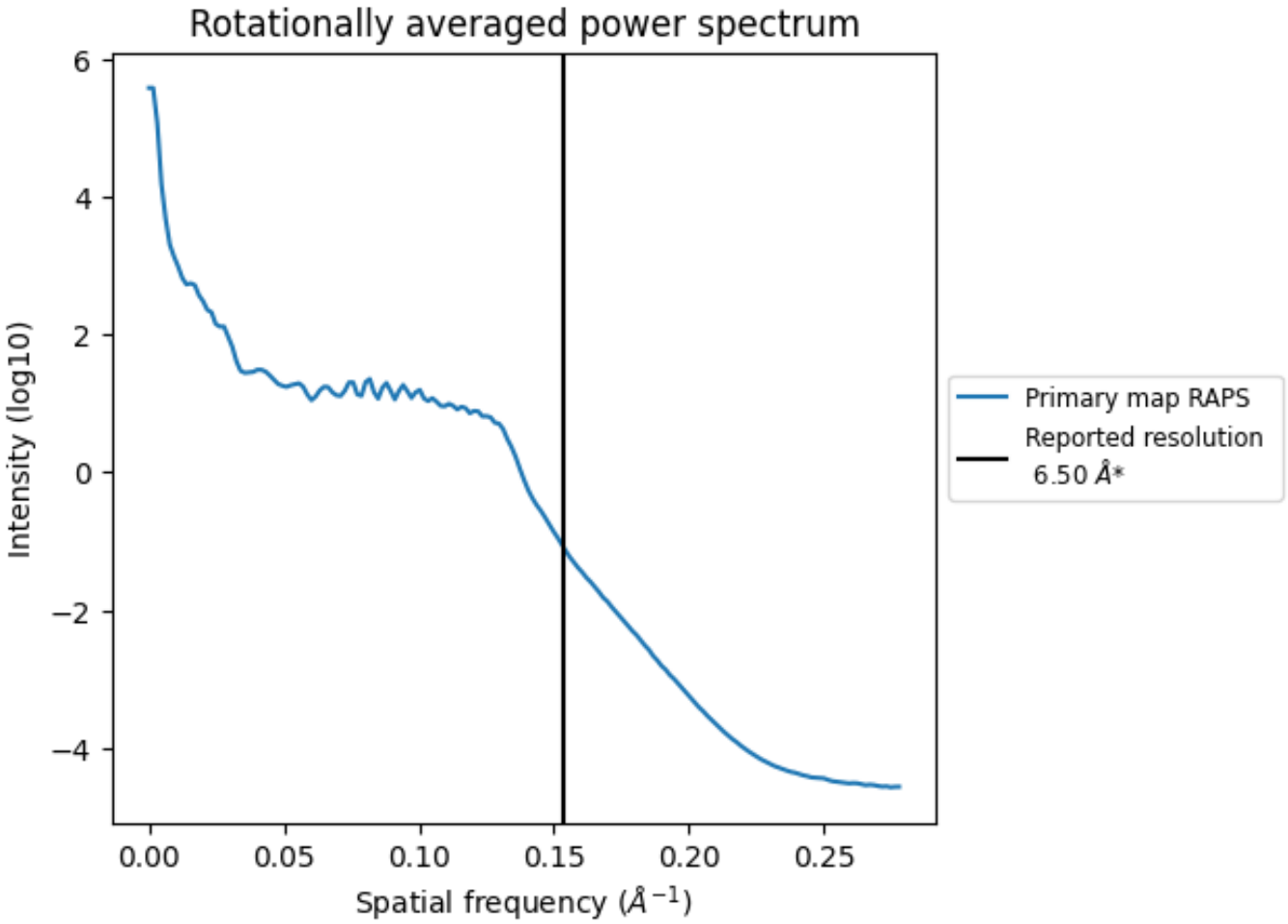
7.2 Volume estimate



The volume at the recommended contour level is 2134 nm^3; this corresponds to an approximate mass of 1928 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.154 $Å^{-1}$

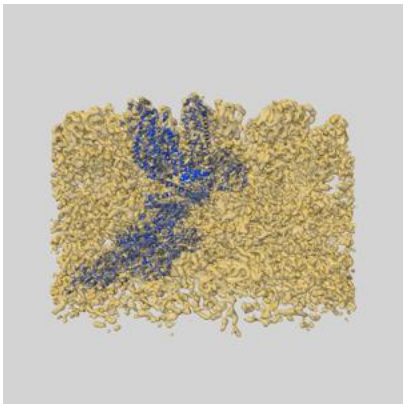
8 Fourier-Shell correlation

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

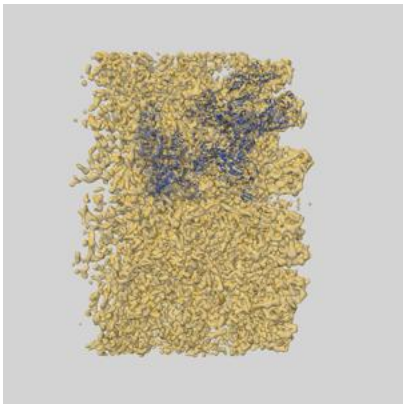
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-22166 and PDB model 6XF8. Per-residue inclusion information can be found in section 3 on page 7.

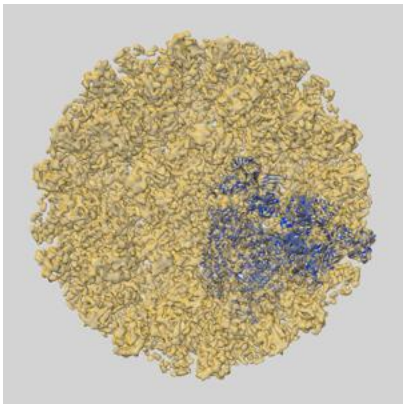
9.1 Map-model overlay



X



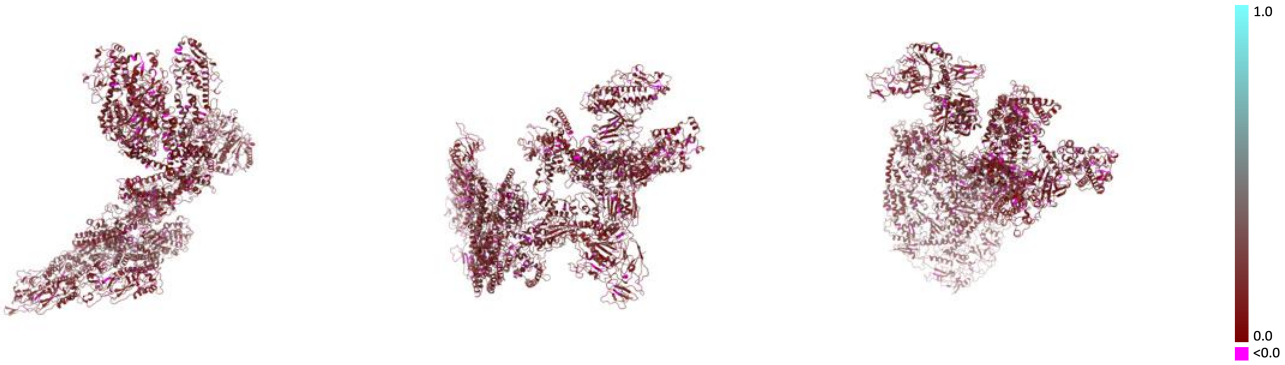
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 2.7 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

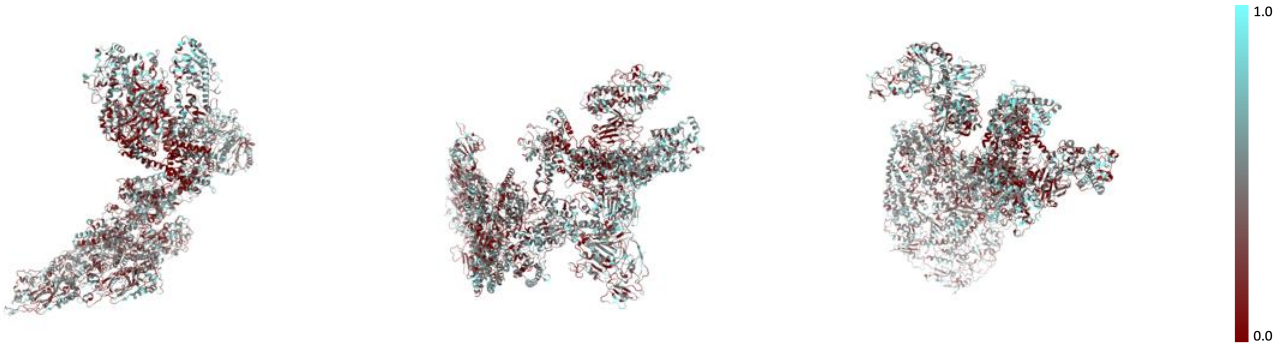
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

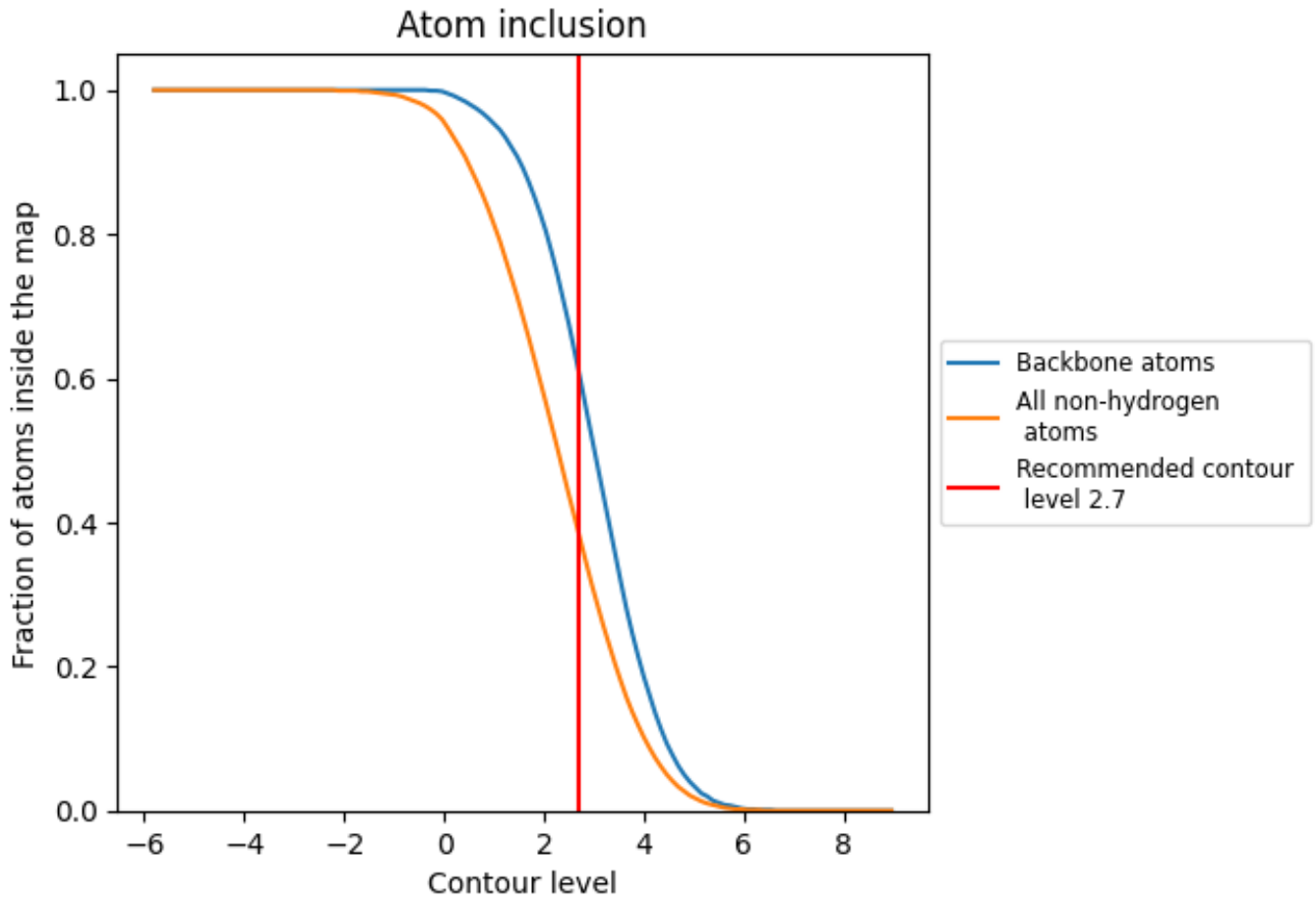
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (2.7).

9.4 Atom inclusion (i)



At the recommended contour level, 61% of all backbone atoms, 38% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (2.7) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3830	0.1800
A	0.4180	0.1900
B	0.3490	0.1770
C	0.3920	0.1840
E	0.3840	0.1770
F	0.3240	0.1690
G	0.4760	0.1890
H	0.3860	0.1640
I	0.4830	0.1750
K	0.2910	0.1760