Full wwPDB X-ray Structure Validation Report (i)

Oct 31, 2023 – 09:58 AM EDT

PDB ID	:	3I4N
Title	:	8-oxoguanine containing RNA polymerase II elongation complex E
Authors	:	Damsma, G.E.; Cramer, P.
Deposited on	:	2009-07-02
Resolution	:	3.90 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) 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 (1)) were used in the production of this report:

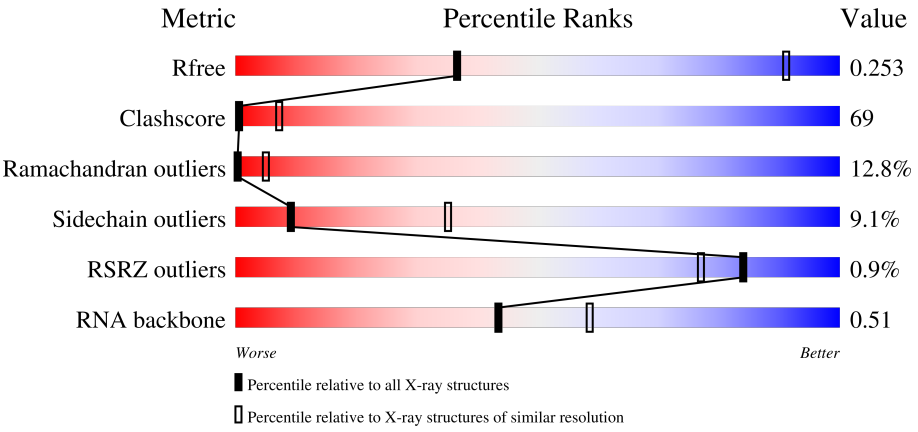
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.90 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1002 (4.14-3.66)
Clashscore	141614	1004 (4.12-3.68)
Ramachandran outliers	138981	1021 (4.14-3.66)
Sidechain outliers	138945	1014 (4.14-3.66)
RSRZ outliers	127900	1275 (4.20-3.60)
RNA backbone	3102	1040 (4.76-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	1733	17% 52% 12% • 18%
2	B	1224	% 21% 56% 13% • 8%
3	C	324	19% 52% 12% • 17%
4	D	221	% 19% 48% 14% • 18%

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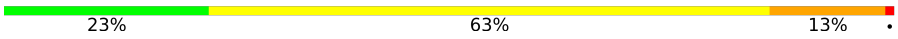
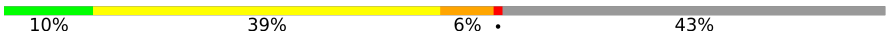
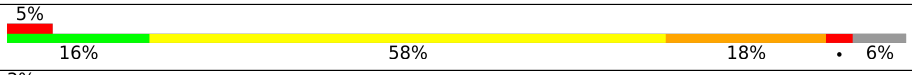
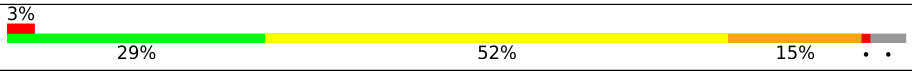
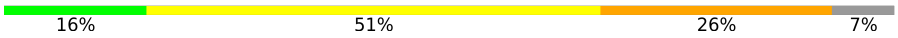
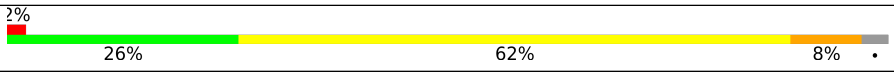
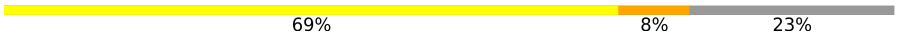
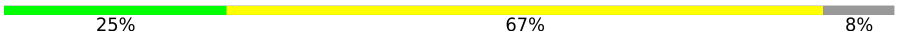
Mol	Chain	Length	Quality of chain
5	E	215	
6	F	155	
7	G	171	
8	H	146	
9	I	122	
10	J	70	
11	K	120	
12	L	70	
13	T	26	
14	N	12	
15	P	16	

2 Entry composition

There are 17 unique types of molecules in this entry. The entry contains 32307 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase II subunit RPB1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1429	Total	C	N	O	S	0	0	0
			11240	7079	1966	2133	62			

- Molecule 2 is a protein called DNA-directed RNA polymerase II subunit RPB2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1125	Total	C	N	O	S	0	0	0
			8942	5659	1571	1657	55			

- Molecule 3 is a protein called DNA-directed RNA polymerase II subunit RPB3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	270	Total	C	N	O	S	0	0	0
			2125	1336	353	422	14			

There are 6 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C	-5	HIS	-	EXPRESSION TAG	UNP P16370
C	-4	HIS	-	EXPRESSION TAG	UNP P16370
C	-3	HIS	-	EXPRESSION TAG	UNP P16370
C	-2	HIS	-	EXPRESSION TAG	UNP P16370
C	-1	HIS	-	EXPRESSION TAG	UNP P16370
C	0	HIS	-	EXPRESSION TAG	UNP P16370

- Molecule 4 is a protein called DNA-directed RNA polymerase II subunit RPB4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	182	Total	C	N	O	S	0	0	0
			1465	904	262	296	3			

- Molecule 5 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	214	Total	C	N	O	S	0	0	0
			1752	1111	309	321	11			

- Molecule 6 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	88	Total	C	N	O	S	0	0	0
			712	455	120	134	3			

- Molecule 7 is a protein called DNA-directed RNA polymerase II subunit RPB7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	171	Total	C	N	O	S	0	0	0
			1340	861	222	249	8			

- Molecule 8 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	137	Total	C	N	O	S	0	0	0
			1101	693	185	218	5			

- Molecule 9 is a protein called DNA-directed RNA polymerase II subunit RPB9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	117	Total	C	N	O	S	0	0	0
			952	586	173	182	11			

- Molecule 10 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	65	Total	C	N	O	S	0	0	0
			532	339	93	94	6			

- Molecule 11 is a protein called DNA-directed RNA polymerase II subunit RPB11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	116	Total	C	N	O	S	0	0	0
			929	596	158	173	2			

- Molecule 12 is a protein called DNA-directed RNA polymerases I, II, and III subunit RPABC4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	47	Total	C	N	O	S	0	0	0
			370	228	73	65	4			

- Molecule 13 is a DNA chain called DNA (5'-D(*AP*G*CP*TP*CP*AP*AP*GP*TP*AP*CP*TP*TP*AP*(8OG)P*GP*CP*CP*(BRU)P*GP*GP*TP*CP*AP*TP*T)-3').

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
13	T	20	Total	Br	C	N	O	P	0	0	0
			407	1	194	72	121	19			

- Molecule 14 is a DNA chain called DNA (5'-D(*AP*GP*TP*AP*CP*TP*TP*GP*AP*GP*CP*T)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	N	11	Total	C	N	O	P	0	0	0
			224	108	42	64	10			

- Molecule 15 is a RNA chain called RNA (5'-R(*UP*GP*CP*AP*UP*C*UP*UP*CP*CP*AP*GP*GP*CP*AP*U)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	P	10	Total	C	N	O	P	0	0	0
			207	94	35	69	9			

- Molecule 16 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
16	A	1	Total	Mg	0	0
			1	1		

- Molecule 17 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
17	A	2	Total	Zn	0	0
			2	2		
17	B	1	Total	Zn	0	0
			1	1		
17	C	1	Total	Zn	0	0
			1	1		
17	I	2	Total	Zn	0	0
			2	2		

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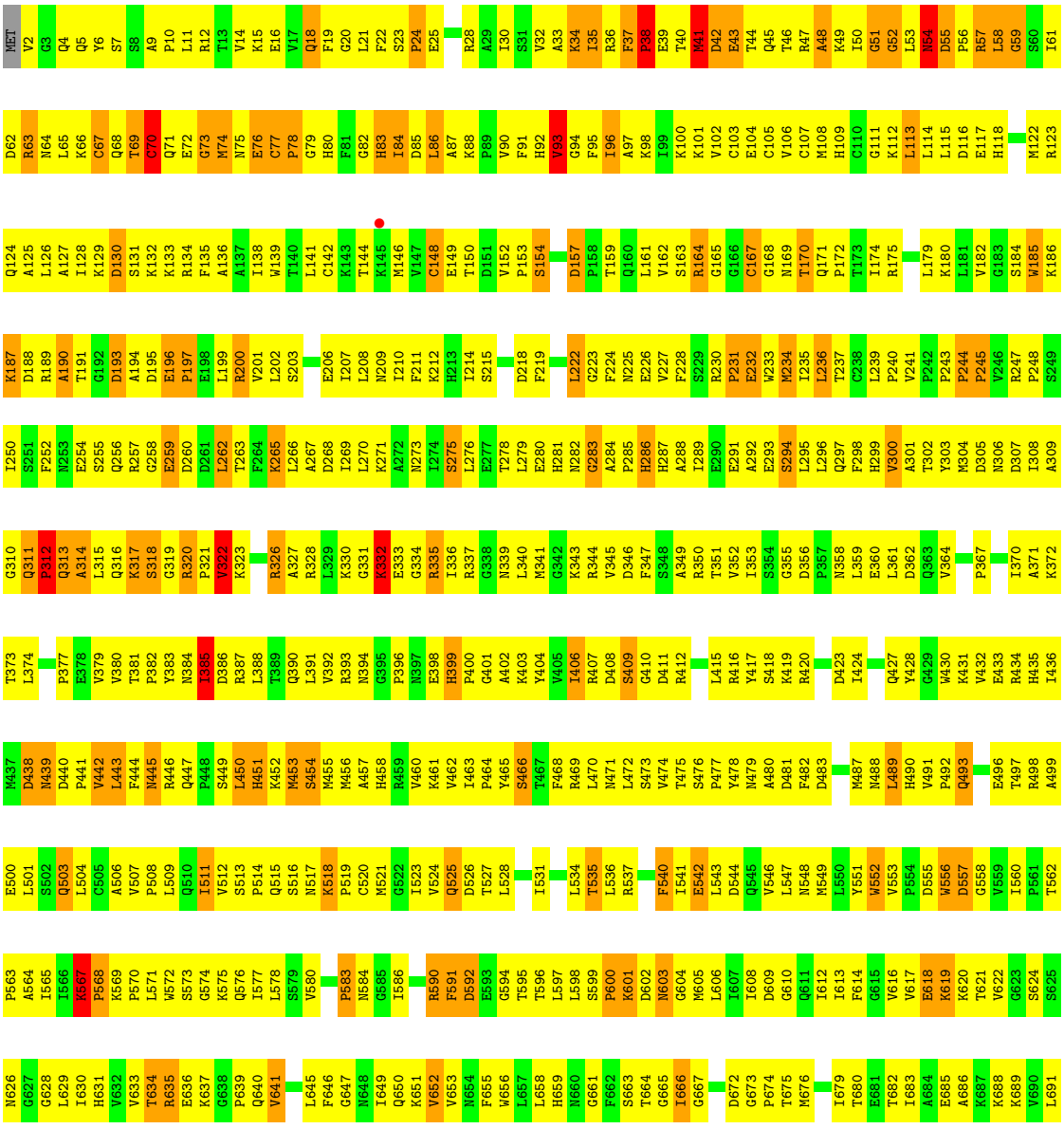
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
17	J	1	Total Zn 1 1	0	0
17	L	1	Total Zn 1 1	0	0

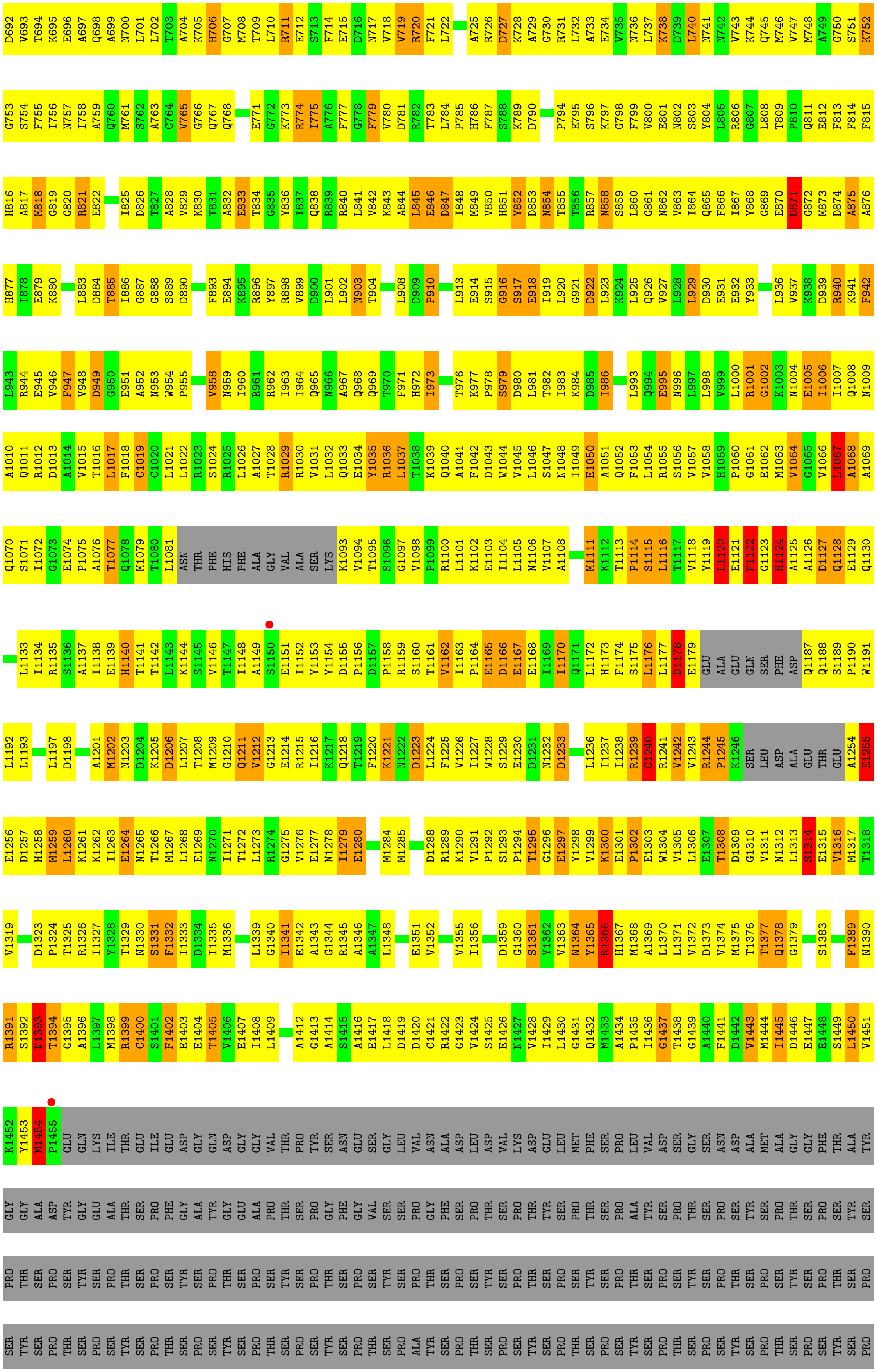
3 Residue-property plots (i)

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

- Molecule 1: DNA-directed RNA polymerase II subunit RPB1

Chain A: 17% 52% 12% 18%

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G753 S754 F755 I756 N757 I758 A759 Q760 M761 S762 A763 C764 V765 G766 Q767 Q768 E771 G772 K773 R774 I775 A776 F777 G778 F779 V780 D781 R782 T783 L784 P785 H786 F787 S788 K789 D790 P794 E795 S796 K797 G798 F799 V800 E801 N802 S803 Y804 L805 R806 G807 L808 T809 P810 Q811 E812 F813 F814 F815
H816 A817 M818 G819 G820 R821 E822 I825 D826 T827 A828 V829 K830 T831 A832 E833 T834 G835 Y836 I837 Q838 R839 R840 L841 V842 K843 A844 L845 E846 D847 I848 M849 V850 H851 Y852 D853 N854 T855 T856 R857 N858 S859 L860 G861 N862 V863 I864 Q865 F866 I867 Y868 G869 E870 D871 G872 M873 D874 A875 A876
H877 I878 E879 K880 L883 D884 T885 I886 G887 G888 S889 D890 F893 E894 K895 R896 Y897 R898 V899 D900 L901 L902 N903 T904 L908 D909 P910 L913 E914 S915 G916 S917 E918 I919 L920 G921 D922 L923 K924 L925 Q926 V927 L928 L929 D930 E931 E932 Y933 L936 V937 K938 D939 R940 K941 F942
L943 R944 E945 V946 F947 V948 D949 G950 E951 A952 N953 W954 P955 V958 N959 I960 R961 R962 I963 I964 Q965 N966 A967 Q968 Q969 T970 F971 H972 I973 T976 K977 P978 S979 D980 L981 T982 I983 K984 D985 I986 L993 Q994 E995 N996 L997 L998 V999 L1000 R1001 G1002 K1003 N1004 E1005 I1006 I1007 Q1008 N1009
A1010 Q1011 R1012 D1013 A1014 V1015 T1016 L1017 F1018 C1019 C1020 L1021 L1022 R1023 S1024 R1025 L1026 A1027 T1028 R1029 R1030 V1031 L1032 Q1033 E1034 Y1035 R1036 L1037 T1038 K1039 Q1040 A1041 F1042 D1043 W1044 V1045 L1046 S1047 N1048 I1049 E1050 A1051 Q1052 F1053 L1054 R1055 S1056 V1057 V1058 H1059 P1060 G1061 E1062 M1063 V1064 G1065 V1066 L1067 A1068 A1069
Q1070 S1071 I1072 G1073 E1074 P1075 A1076 T1077 Q1078 M1079 T1080 L1081 ASN THR PHE HIS PHE ALA GLY VAL ALA SER LYS K1093 V1094 T1095 S1096 G1097 V1098 P1099 R1100 L1101 K1102 E1103 I1104 L1105 N1106 V1107 A1108 M1111 K1112 T1113 P1114 S1115 L1116 T1117 V1118 Y1119 L1120 E1121 P1122 G1123 H1124 A1125 A1126 D1127 Q1128 E1129 Q1130
L1133 I1134 R1135 S1136 A1137 I1138 E1139 H1140 T1141 T1142 L1143 K1144 S1145 V1146 T1147 I1148 A1149 S1150 E1151 I1152 Y1153 Y1154 D1155 P1156 D1157 P1158 R1159 S1160 T1161 V1162 I1163 P1164 E1165 D1166 E1167 E1168 I1169 I1170 Q1171 L1172 H1173 F1174 S1175 L1176 L1177 D1178 E1179 GLU ALA GLU GLN SER PHE ASP Q1187 Q1188 S1189 P1190 W1191
L1192 L1193 L1197 D1198 A1201 M1202 N1203 D1204 K1205 D1206 L1207 T1208 M1209 G1210 Q1211 V1212 G1213 E1214 R1215 I1216 K1217 Q1218 T1219 F1220 K1221 N1222 D1223 L1224 F1225 V1226 I1227 W1228 S1229 E1230 D1231 N1232 D1233 L1236 I1237 I1238 R1239 C1240 R1241 V1242 V1243 R1244 P1245 K1246 SER LEU ASP ALA GLU THR GLU A1254 E1255
E1256 D1257 H1258 M1259 L1260 K1261 K1262 I1263 E1264 N1265 T1266 M1267 L1268 E1269 N1270 I1271 T1272 L1273 R1274 G1275 V1276 E1277 N1278 I1279 E1280 M1284 M1285 D1288 R1289 K1290 V1291 P1292 S1293 P1294 T1295 G1296 E1297 Y1298 V1299 K1300 E1301 P1302 E1303 W1304 V1305 L1306 E1307 T1308 D1309 G1310 V1311 N1312 L1313 S1314 E1315 V1316 M1317 T1318
V1319 D1323 P1324 T1325 R1326 I1327 Y1328 T1329 N1330 S1331 F1332 I1333 D1334 I1335 M1336 L1339 G1340 I1341 E1342 A1343 G1344 R1345 A1346 A1347 L1348 E1351 V1352 V1355 I1356 D1359 G1360 S1361 Y1362 V1363 N1364 Y1365 R1366 H1367 M1368 A1369 L1370 L1371 V1372 D1373 V1374 M1375 T1376 T1377 Q1378 G1379 S1383 F1389 N1390
R1391 S1392 N1393 T1394 G1395 A1396 L1397 M1398 R1399 C1400 S1401 F1402 E1403 E1404 T1405 V1406 E1407 I1408 L1409 A1412 G1413 A1414 S1415 A1416 E1417 L1418 D1419 D1420 C1421 R1422 G1423 V1424 S1425 E1426 N1427 V1428 I1429 L1430 G1431 Q1432 M1433 A1434 P1435 I1436 G1437 T1438 G1439 A1440 F1441 D1442 V1443 M1444 I1445 D1446 E1447 E1448 S1449 L1450 V1451
K1452 Y1453 M1454 P1455 GLU GLN LYS ILE THR GLU ILE GLU ASP GLY GLN ASP GLY GLY VAL THR PRO TYR SER ASN GLU SER GLY LEU VAL ASN ALA ASP LEU ASP VAL LYS ASP GLU LEU MET PHE SER PRO LEU VAL ASP SER GLY SER ASN ASP ALA MET ALA GLY GLY PHE THR ALA TYR
GLY GLY ALA ASP TYR GLY GLU ALA THR SER PRO PHE GLY ALA TYR GLY GLU ALA PRO THR SER PRO GLY PHE GLY VAL SER SER PRO GLY PHE SER PRO THR SER PRO THR TYR SER PRO THR SER PRO ALA TYR SER PRO THR SER PRO SER TYR SER PRO THR SER PRO SER TYR SER
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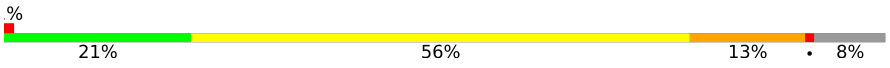
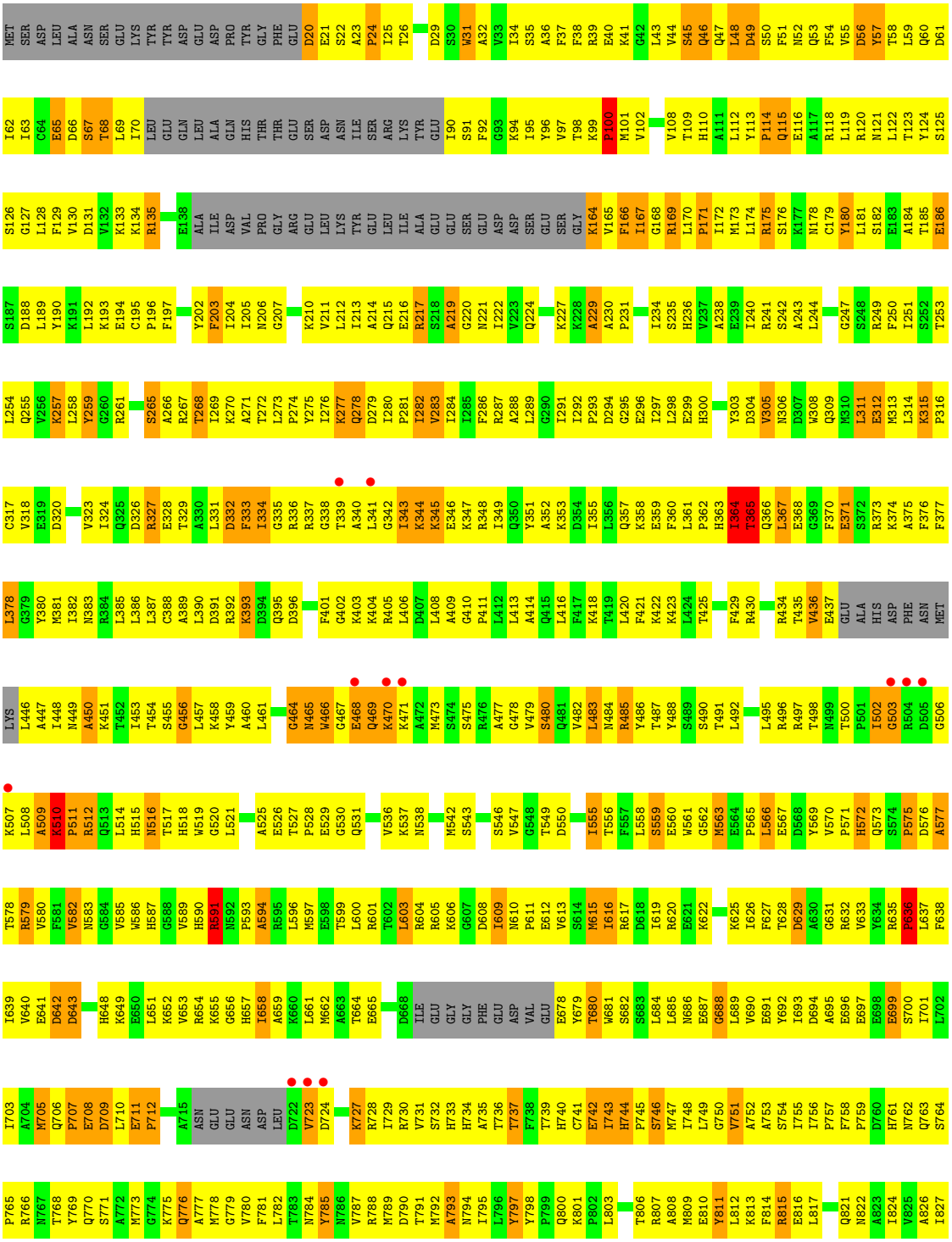
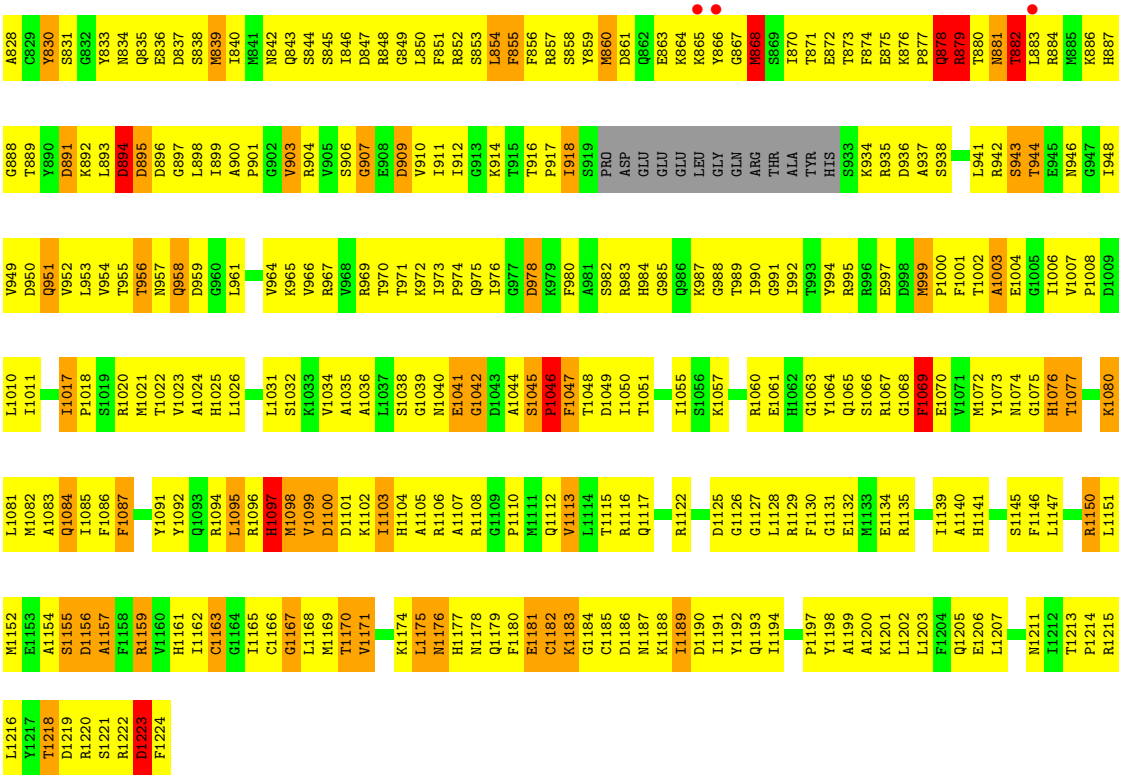
• Molecule 2: DNA-directed RNA polymerase II subunit RPB2

Chain B:

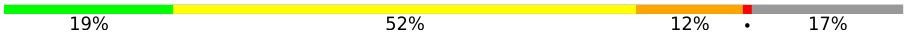


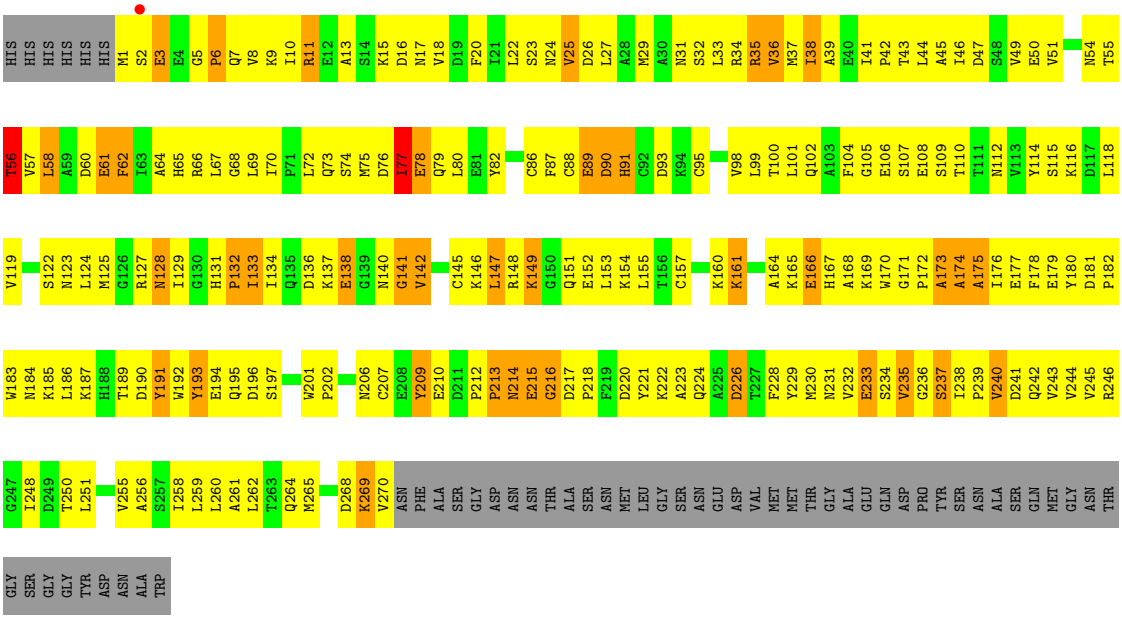




• Molecule 3: DNA-directed RNA polymerase II subunit RPB3

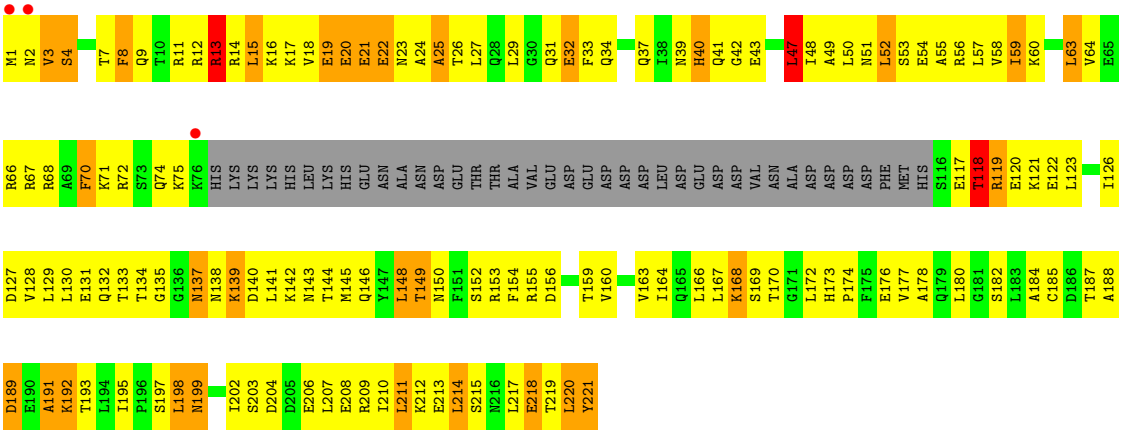
Chain C:





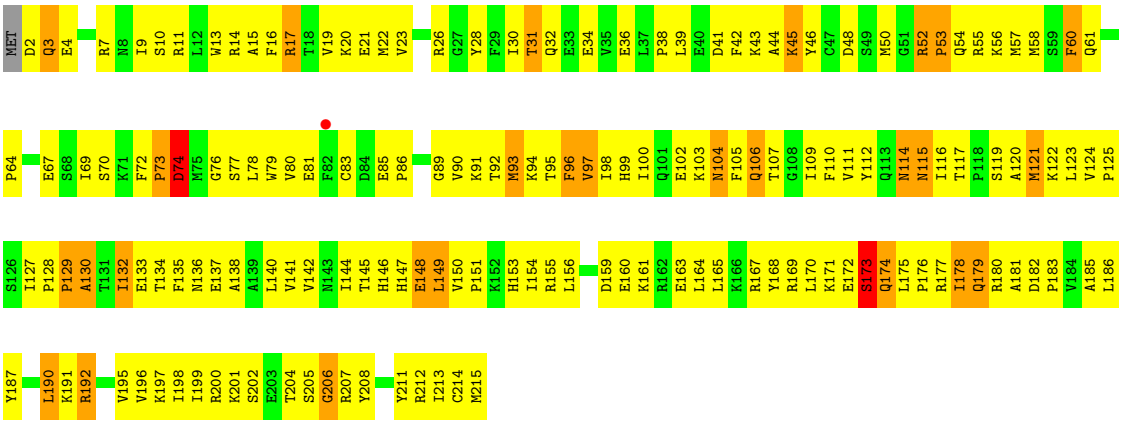
• Molecule 4: DNA-directed RNA polymerase II subunit RPB4

Chain D:



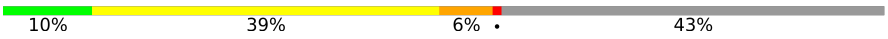
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

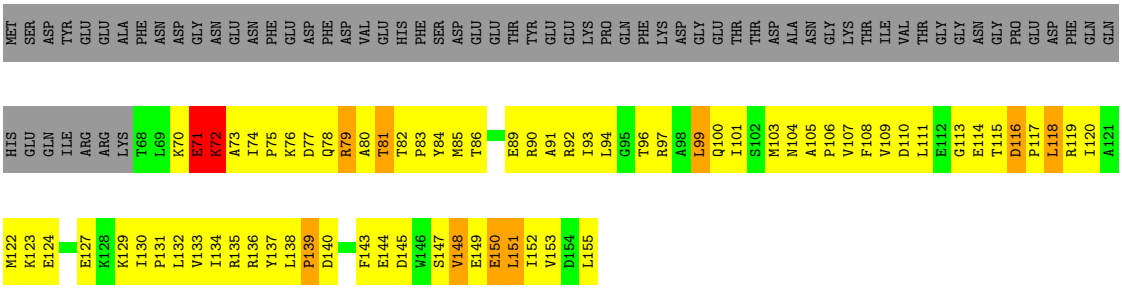
Chain E:



• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

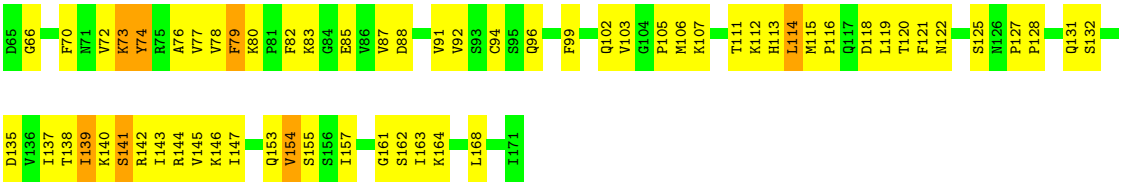
Chain F:



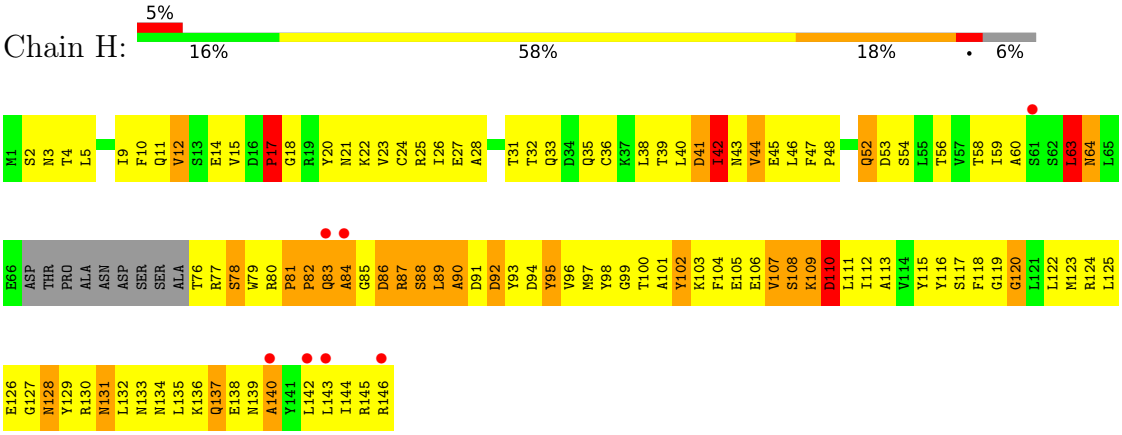


• Molecule 7: DNA-directed RNA polymerase II subunit RPB7

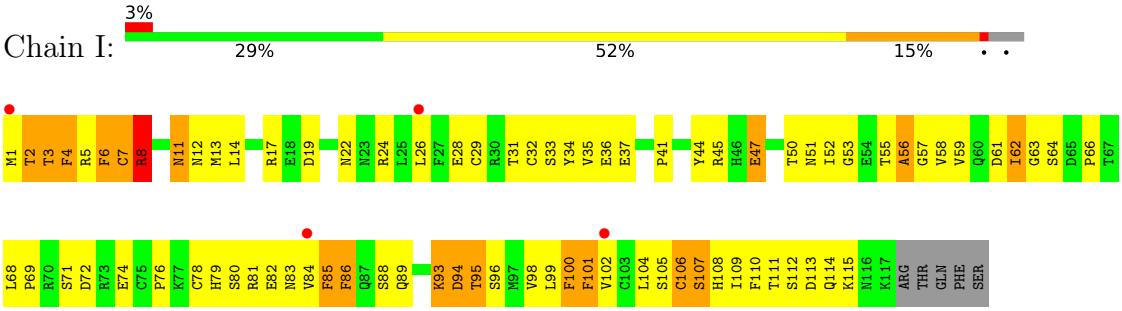
Chain G:



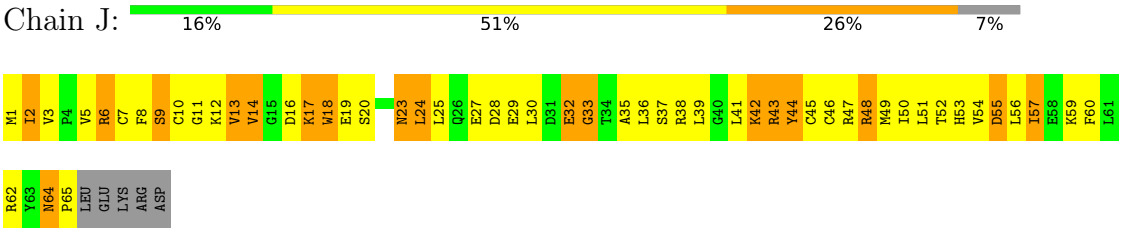
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3



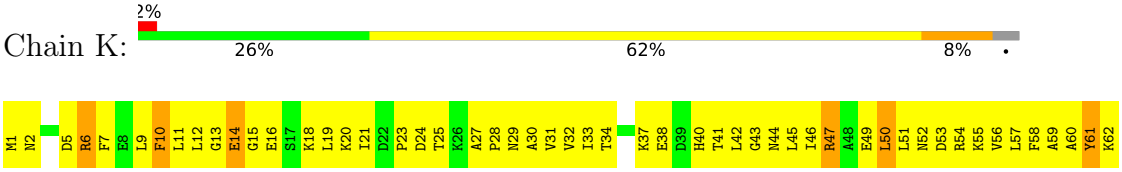
• Molecule 9: DNA-directed RNA polymerase II subunit RPB9



• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

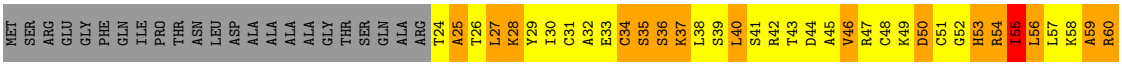


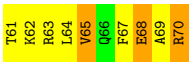
• Molecule 11: DNA-directed RNA polymerase II subunit RPB11



• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

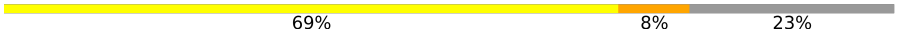
Chain L:





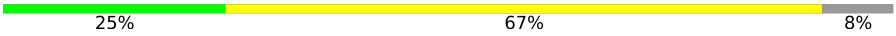
• Molecule 13: DNA (5'-D(*AP*G*CP*TP*CP*AP*AP*GP*TP*AP*CP*TP*TP*AP*(8OG)P*GP*CP*CP*(BRU)P*GP*GP*TP*CP*AP*TP*T)-3')

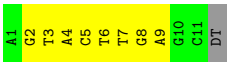
Chain T:



• Molecule 14: DNA (5'-D(*AP*GP*TP*AP*CP*TP*TP*GP*AP*GP*CP*T)-3')

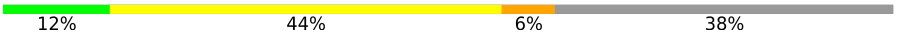
Chain N:





• Molecule 15: RNA (5'-R(*UP*GP*CP*AP*UP*C*UP*UP*CP*CP*AP*GP*GP*CP*AP*U)-3')

Chain P:



4 Data and refinement statistics (i)

Property	Value	Source
Space group	C 2 2 21	Depositor
Cell constants a, b, c, α, β, γ	221.17Å 394.15Å 282.34Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 3.90 49.81 – 3.90	Depositor EDS
% Data completeness (in resolution range)	99.6 (50.00-3.90) 100.0 (49.81-3.90)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$< I/\sigma(I) >$ [1]	2.80 (at 3.88Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.228 , 0.266 0.214 , 0.253	Depositor DCC
R_{free} test set	4364 reflections (2.01%)	wwPDB-VP
Wilson B-factor (Å^2)	128.1	Xtriage
Anisotropy	0.540	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 95.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.46$, $< L^2 > = 0.29$	Xtriage
Estimated twinning fraction	0.017 for 1/2*h-1/2*k,-3/2*h-1/2*k,-l 0.019 for 1/2*h+1/2*k,3/2*h-1/2*k,-l	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	32307	wwPDB-VP
Average B, all atoms (Å^2)	145.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.79% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: MG, BRU, ZN, 8OG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
1	A	0.43	0/11441	0.73	1/15473 (0.0%)
2	B	0.41	0/9116	0.69	1/12291 (0.0%)
3	C	0.42	0/2163	0.72	0/2930
4	D	0.39	0/1475	0.64	0/1976
5	E	0.39	0/1788	0.66	0/2406
6	F	0.46	0/724	0.82	0/977
7	G	0.44	0/1368	0.68	0/1844
8	H	0.38	0/1119	0.69	0/1514
9	I	0.36	0/970	0.66	0/1305
10	J	0.43	0/541	0.71	0/727
11	K	0.44	0/947	0.68	0/1279
12	L	0.45	0/372	0.75	0/495
13	T	0.61	0/405	0.84	0/618
14	N	0.67	0/251	0.93	0/386
15	P	0.54	0/230	0.82	0/356
All	All	0.42	0/32910	0.71	2/44577 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	1

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	882	THR	N-CA-C	5.61	126.14	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	567	LYS	C-N-CD	5.18	139.27	128.40

There are no chirality outliers.

All (1) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	797	TYR	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11240	0	11313	1726	0
2	B	8942	0	8987	1312	0
3	C	2125	0	2090	327	0
4	D	1465	0	1489	212	0
5	E	1752	0	1776	229	0
6	F	712	0	738	127	0
7	G	1340	0	1357	167	0
8	H	1101	0	1075	211	0
9	I	952	0	913	140	0
10	J	532	0	542	113	0
11	K	929	0	939	132	0
12	L	370	0	394	89	0
13	T	407	0	225	43	0
14	N	224	0	126	11	0
15	P	207	0	109	9	0
16	A	1	0	0	0	0
17	A	2	0	0	0	0
17	B	1	0	0	0	0
17	C	1	0	0	0	0
17	I	2	0	0	0	0
17	J	1	0	0	0	0
17	L	1	0	0	0	0
All	All	32307	0	32073	4433	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 69.

All (4433) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:577:ALA:HB1	2:B:589:VAL:HG11	1.19	1.14
1:A:320:ARG:HB2	1:A:320:ARG:HH11	1.07	1.14
8:H:33:GLN:HE21	8:H:35:GLN:HB2	1.12	1.13
1:A:899:VAL:HB	1:A:929:LEU:HD11	1.25	1.12
1:A:590:ARG:HH21	1:A:620:LYS:HB3	1.06	1.12
7:G:138:THR:HG22	7:G:139:ILE:H	1.05	1.12
2:B:999:MET:HG3	2:B:1000:PRO:HD2	1.32	1.12
2:B:638:PHE:HA	2:B:690:VAL:HG22	1.31	1.11
3:C:66:ARG:HH12	10:J:2:ILE:HG21	0.96	1.10
7:G:122:ASN:HD22	7:G:125:SER:HB3	1.11	1.10
2:B:806:THR:HG22	2:B:808:ALA:H	1.11	1.10
1:A:1244:ARG:HB3	1:A:1245:PRO:HA	1.21	1.09
1:A:567:LYS:HG3	8:H:95:TYR:HA	1.32	1.08
6:F:109:VAL:HG12	6:F:110:ASP:H	1.13	1.08
1:A:41:MET:HB2	1:A:49:LYS:HA	1.35	1.08
5:E:180:ARG:HH21	5:E:192:ARG:HB2	1.12	1.08
1:A:768:GLN:HG2	1:A:816:HIS:HA	1.35	1.08
1:A:1420:ASP:HB3	1:A:1422:ARG:HG3	1.33	1.07
2:B:1095:LEU:H	2:B:1095:LEU:HD12	1.14	1.07
1:A:1006:ILE:HD11	5:E:163:GLU:HG3	1.38	1.06
7:G:49:LEU:HD21	7:G:77:VAL:HG23	1.30	1.05
2:B:642:ASP:HA	2:B:649:LYS:HA	1.36	1.05
1:A:1017:LEU:HB2	5:E:206:GLY:H	1.14	1.04
1:A:1424:VAL:HG13	1:A:1436:ILE:HD11	1.38	1.04
2:B:165:VAL:HG11	2:B:448:ILE:HD12	1.36	1.04
3:C:66:ARG:NH1	10:J:2:ILE:HG21	1.72	1.04
2:B:186:GLU:HG3	10:J:62:ARG:HH22	1.22	1.04
1:A:981:LEU:HD21	1:A:1039:LYS:HA	1.39	1.03
2:B:340:ALA:HB3	2:B:343:ILE:HG12	1.33	1.03
6:F:130:ILE:O	6:F:148:VAL:HG21	1.58	1.03
2:B:287:ARG:HG2	2:B:292:ILE:HA	1.41	1.02
10:J:64:ASN:HB3	10:J:65:PRO:CD	1.88	1.02
9:I:7:CYS:HB3	9:I:14:LEU:HD21	1.42	1.02
3:C:101:LEU:HD13	3:C:118:LEU:HD23	1.41	1.01
1:A:108:MET:HB3	1:A:210:ILE:HD13	1.40	1.01
2:B:603:LEU:HB3	2:B:609:ILE:HD11	1.40	1.01
1:A:901:LEU:H	1:A:926:GLN:NE2	1.59	1.01
2:B:1099:VAL:HG13	2:B:1100:ASP:H	1.25	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:934:LYS:HG2	2:B:934:LYS:O	1.62	0.99
12:L:34:CYS:HB3	12:L:51:CYS:SG	2.03	0.99
1:A:563:PRO:HG3	1:A:572:TRP:CZ2	1.97	0.99
1:A:53:LEU:HD23	1:A:54:ASN:N	1.77	0.99
3:C:43:THR:HG22	3:C:44:LEU:H	1.25	0.98
1:A:1409:LEU:HD13	2:B:1207:LEU:HD11	1.42	0.98
11:K:46:ILE:O	11:K:50:LEU:HB2	1.64	0.98
1:A:1002:GLY:HA3	1:A:1007:ILE:HG21	1.42	0.98
12:L:32:ALA:HB2	12:L:55:ILE:HG13	1.43	0.98
1:A:14:VAL:H	1:A:1432:GLN:HE22	1.12	0.97
5:E:22:MET:HE3	5:E:26:ARG:HH11	1.27	0.97
2:B:882:THR:HG22	2:B:884:ARG:HB2	1.45	0.97
7:G:62:LEU:HB3	7:G:63:PRO:HD2	1.45	0.97
12:L:61:THR:HG22	12:L:63:ARG:H	1.26	0.97
4:D:134:THR:HG22	4:D:135:GLY:H	1.28	0.97
1:A:567:LYS:HE2	8:H:47:PHE:HB2	1.45	0.97
1:A:763:ALA:O	1:A:803:SER:HB3	1.65	0.97
2:B:746:SER:HB2	2:B:1046:PRO:HG2	1.46	0.97
2:B:1002:THR:CG2	2:B:1006:ILE:HG13	1.94	0.97
3:C:45:ALA:HA	3:C:72:LEU:HD12	1.45	0.96
2:B:497:ARG:HH22	2:B:775:LYS:HE2	1.26	0.96
1:A:1445:ILE:H	1:A:1445:ILE:HD12	1.31	0.96
10:J:48:ARG:HE	10:J:49:MET:HE2	1.25	0.95
1:A:1254:ALA:O	1:A:1255:GLU:HB2	1.66	0.95
11:K:65:HIS:HD2	11:K:67:PHE:H	1.01	0.95
1:A:637:LYS:HB3	1:A:641:VAL:HG21	1.48	0.95
2:B:723:VAL:HG12	2:B:724:ASP:H	1.28	0.95
1:A:93:VAL:HG13	1:A:301:ALA:HB1	1.47	0.94
8:H:25:ARG:HA	8:H:41:ASP:HA	1.47	0.94
1:A:855:THR:HG21	1:A:857:ARG:HE	1.33	0.94
2:B:637:LEU:HD12	2:B:693:ILE:HD12	1.48	0.94
1:A:49:LYS:HZ1	1:A:61:ILE:H	1.11	0.94
11:K:65:HIS:CD2	11:K:67:PHE:H	1.85	0.94
3:C:244:VAL:O	3:C:248:ILE:HG13	1.68	0.94
2:B:611:PRO:HG2	2:B:685:LEU:HD21	1.50	0.94
1:A:1227:ILE:HG22	1:A:1228:TRP:H	1.33	0.93
1:A:666:ILE:HD12	1:A:667:GLY:H	1.31	0.93
2:B:217:ARG:HE	2:B:405:ARG:HB2	1.32	0.93
4:D:47:LEU:HD13	4:D:48:ILE:H	1.32	0.93
1:A:1100:ARG:HH21	1:A:1351:GLU:HG2	1.29	0.93
2:B:559:SER:HA	2:B:563:MET:HB3	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:399:HIS:HB3	1:A:400:PRO:HD3	1.48	0.92
8:H:64:ASN:HB2	8:H:88:SER:HB2	1.50	0.92
1:A:754:SER:H	1:A:757:ASN:HD22	1.17	0.92
2:B:273:LEU:HB2	2:B:276:ILE:HD12	1.50	0.92
1:A:40:THR:HG22	1:A:41:MET:HG3	1.52	0.92
1:A:390:GLN:O	1:A:394:ASN:HB2	1.69	0.92
1:A:1369:ALA:O	1:A:1372:VAL:HG12	1.68	0.91
1:A:1160:SER:HA	1:A:1170:ILE:HD13	1.52	0.91
1:A:808:LEU:HD23	1:A:813:PHE:HA	1.52	0.91
2:B:944:THR:HG21	2:B:1122:ARG:NH2	1.85	0.91
1:A:1116:LEU:HB3	1:A:1308:THR:CG2	2.01	0.91
1:A:590:ARG:NH2	1:A:620:LYS:HB3	1.86	0.91
2:B:430:ARG:O	2:B:434:ARG:HD2	1.71	0.91
4:D:53:SER:H	4:D:148:LEU:CD2	1.84	0.90
5:E:22:MET:CE	5:E:26:ARG:HH11	1.83	0.90
12:L:26:THR:HG23	12:L:62:LYS:NZ	1.86	0.90
3:C:57:VAL:HG11	10:J:60:PHE:HB3	1.52	0.90
13:T:16:DT:H2"	13:T:17:DT:H5'	1.51	0.90
1:A:239:LEU:HD12	1:A:240:PRO:HD2	1.52	0.90
1:A:1189:SER:O	1:A:1241:ARG:HD3	1.72	0.90
12:L:40:LEU:HD13	12:L:44:ASP:HB3	1.51	0.90
1:A:49:LYS:HZ1	1:A:61:ILE:N	1.70	0.90
1:A:1332:PHE:H	1:A:1332:PHE:HD2	1.13	0.90
7:G:15:PRO:HA	7:G:18:PHE:CD1	2.07	0.90
11:K:31:VAL:HG12	11:K:32:VAL:H	1.36	0.90
2:B:654:ARG:H	2:B:657:HIS:HD2	1.17	0.89
1:A:828:ALA:HB2	2:B:530:GLY:HA2	1.53	0.89
10:J:64:ASN:HB3	10:J:65:PRO:HD2	1.51	0.89
1:A:567:LYS:CG	8:H:95:TYR:HA	2.02	0.89
2:B:1150:ARG:HG3	2:B:1150:ARG:HH11	1.37	0.89
7:G:138:THR:HG22	7:G:139:ILE:N	1.88	0.89
3:C:73:GLN:HE21	3:C:75:MET:H	1.21	0.89
4:D:168:LYS:HG3	4:D:177:VAL:HG11	1.53	0.89
1:A:567:LYS:HB2	8:H:96:VAL:H	1.38	0.89
1:A:665:GLY:O	1:A:667:GLY:N	2.06	0.89
1:A:1343:ALA:HB2	5:E:150:VAL:HG22	1.54	0.89
12:L:30:ILE:O	12:L:56:LEU:HA	1.72	0.89
1:A:1057:VAL:HG12	1:A:1058:VAL:H	1.38	0.88
2:B:515:HIS:H	2:B:518:HIS:HD2	1.18	0.88
3:C:61:GLU:HA	3:C:64:ALA:HB3	1.54	0.88
3:C:66:ARG:HH12	10:J:2:ILE:CG2	1.84	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:111:LEU:HD12	6:F:111:LEU:H	1.38	0.88
1:A:902:LEU:HG	1:A:926:GLN:HG3	1.56	0.88
7:G:34:VAL:HG12	7:G:45:ILE:HG21	1.54	0.88
1:A:1244:ARG:HB3	1:A:1245:PRO:CA	2.03	0.88
2:B:364:ILE:O	2:B:365:THR:HB	1.72	0.88
2:B:882:THR:CG2	2:B:884:ARG:HB2	2.02	0.88
10:J:12:LYS:O	10:J:14:VAL:HG23	1.74	0.88
8:H:135:LEU:HD13	8:H:137:GLN:NE2	1.89	0.88
1:A:565:ILE:O	1:A:570:PRO:HA	1.74	0.88
1:A:308:ILE:HG22	1:A:309:ALA:H	1.39	0.88
1:A:320:ARG:HB2	1:A:320:ARG:NH1	1.89	0.87
1:A:946:VAL:HG13	5:E:201:LYS:HB3	1.54	0.87
1:A:1121:GLU:HG2	1:A:1122:PRO:HD2	1.56	0.87
4:D:11:ARG:HD2	4:D:31:GLN:HE22	1.38	0.87
9:I:111:THR:HG22	9:I:113:ASP:H	1.39	0.87
1:A:600:PRO:HG2	1:A:601:LYS:H	1.38	0.87
1:A:351:THR:HG22	2:B:1103:ILE:HA	1.56	0.87
5:E:114:ASN:O	5:E:115:ASN:HB3	1.73	0.87
1:A:42:ASP:O	1:A:44:THR:N	2.08	0.87
1:A:340:LEU:HD13	1:A:1429:ILE:HG23	1.57	0.87
1:A:962:ARG:HA	1:A:965:GLN:HB2	1.56	0.87
8:H:102:TYR:H	8:H:102:TYR:HD2	1.15	0.87
2:B:168:GLY:H	2:B:450:ALA:HB1	1.40	0.87
2:B:800:GLN:HB3	10:J:52:THR:HG21	1.56	0.87
1:A:43:GLU:HB2	1:A:46:THR:HB	1.57	0.86
2:B:637:LEU:O	2:B:690:VAL:HG13	1.75	0.86
6:F:136:ARG:O	6:F:143:PHE:HB2	1.74	0.86
1:A:22:PHE:HB2	2:B:1211:ASN:OD1	1.75	0.86
5:E:117:THR:HG22	5:E:119:SER:H	1.37	0.86
2:B:46:GLN:HG3	2:B:47:GLN:H	1.39	0.86
11:K:12:LEU:H	11:K:12:LEU:HD12	1.40	0.86
11:K:47:ARG:HB3	11:K:47:ARG:HH11	1.39	0.86
3:C:148:ARG:H	3:C:151:GLN:HG3	1.40	0.86
3:C:38:ILE:HA	3:C:173:ALA:HB2	1.58	0.86
1:A:666:ILE:H	2:B:1026:LEU:HD13	1.39	0.86
4:D:71:LYS:HG2	4:D:74:GLN:NE2	1.89	0.86
9:I:26:LEU:HD23	9:I:37:GLU:HA	1.55	0.86
1:A:466:SER:HB3	2:B:1103:ILE:HG12	1.57	0.86
2:B:1165:ILE:HD11	4:D:17:LYS:HD3	1.57	0.86
2:B:126:SER:OG	2:B:172:ILE:HD11	1.75	0.85
2:B:842:ASN:HD22	2:B:845:SER:HB3	1.40	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:13:DT:H2"	13:T:14:DA:OP2	1.74	0.85
6:F:109:VAL:HG12	6:F:110:ASP:N	1.89	0.85
2:B:880:THR:HB	2:B:934:LYS:HD3	1.57	0.85
7:G:122:ASN:ND2	7:G:125:SER:HB3	1.91	0.85
1:A:537:ARG:HD2	8:H:20:TYR:HE1	1.41	0.85
1:A:1261:LYS:O	1:A:1264:GLU:HB3	1.76	0.85
2:B:776:GLN:OE1	15:P:9:C:H4'	1.76	0.85
14:N:3:DT:H1'	14:N:4:DA:C8	2.12	0.85
1:A:470:LEU:HD13	1:A:487:MET:HE1	1.59	0.85
2:B:115:GLN:HG2	2:B:193:LYS:HB2	1.57	0.85
1:A:180:LYS:NZ	1:A:294:SER:HB3	1.92	0.85
12:L:61:THR:HG21	12:L:63:ARG:HE	1.42	0.85
1:A:30:ILE:HG23	2:B:1170:THR:HG23	1.59	0.85
12:L:32:ALA:CB	12:L:55:ILE:HG13	2.07	0.85
1:A:196:GLU:HB2	1:A:197:PRO:HD2	1.58	0.85
2:B:1181:GLU:O	2:B:1182:CYS:HB3	1.74	0.85
1:A:2:VAL:HG11	2:B:1157:ALA:HB1	1.59	0.84
1:A:70:CYS:O	1:A:72:GLU:HG2	1.77	0.84
2:B:953:LEU:HD21	2:B:965:LYS:HB2	1.59	0.84
6:F:103:MET:CE	7:G:66:GLY:H	1.88	0.84
1:A:98:LYS:O	1:A:102:VAL:HG23	1.77	0.84
6:F:86:THR:OG1	6:F:89:GLU:HG3	1.77	0.84
7:G:7:LEU:HB2	7:G:74:TYR:CE2	2.11	0.84
8:H:128:ASN:H	8:H:130:ARG:NH1	1.75	0.84
1:A:269:ILE:HG12	1:A:299:HIS:HB3	1.59	0.84
1:A:372:LYS:HA	1:A:435:HIS:ND1	1.91	0.84
3:C:6:PRO:HB2	11:K:101:LEU:HD12	1.57	0.84
2:B:521:LEU:HD22	2:B:633:VAL:HG12	1.57	0.84
12:L:55:ILE:HD13	12:L:55:ILE:H	1.41	0.84
1:A:1323:ASP:OD1	1:A:1325:THR:HG22	1.78	0.84
4:D:118:THR:HG21	4:D:121:LYS:HD2	1.57	0.84
13:T:15:DC:H2"	13:T:16:DT:H71	1.57	0.84
2:B:622:LYS:HE2	9:I:59:VAL:HG22	1.57	0.84
2:B:882:THR:HG21	2:B:935:ARG:HA	1.59	0.84
3:C:43:THR:HG22	3:C:44:LEU:N	1.92	0.84
1:A:35:ILE:HG22	1:A:84:ILE:HD12	1.58	0.84
1:A:746:MET:CE	2:B:1018:PRO:HG2	2.07	0.84
2:B:167:ILE:HG22	2:B:453:ILE:HD12	1.59	0.84
8:H:15:VAL:HG13	8:H:26:ILE:HG12	1.60	0.84
1:A:225:ASN:ND2	1:A:228:PHE:H	1.75	0.84
1:A:1047:SER:O	1:A:1050:GLU:HB3	1.77	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:664:THR:HG1	2:B:678:GLU:N	1.75	0.84
1:A:442:VAL:HG12	1:A:490:HIS:O	1.78	0.83
5:E:180:ARG:NH2	5:E:192:ARG:HB2	1.94	0.83
12:L:26:THR:HG23	12:L:62:LYS:HZ3	1.44	0.83
2:B:824:ILE:HG22	2:B:1087:PHE:HE2	1.41	0.83
1:A:470:LEU:HD23	1:A:470:LEU:H	1.44	0.83
2:B:515:HIS:HD2	2:B:517:THR:H	1.22	0.83
2:B:1159:ARG:HB3	2:B:1159:ARG:NH1	1.93	0.83
4:D:139:LYS:HE2	4:D:143:ASN:HD21	1.42	0.83
10:J:48:ARG:HD2	10:J:49:MET:N	1.92	0.83
1:A:188:ASP:HB3	1:A:191:THR:HB	1.60	0.83
1:A:779:PHE:HE1	1:A:785:PRO:HD3	1.42	0.83
2:B:1096:ARG:O	2:B:1097:HIS:HB2	1.78	0.83
1:A:384:ASN:OD1	1:A:388:LEU:HD12	1.78	0.82
2:B:469:GLN:HG3	2:B:470:LYS:H	1.45	0.82
5:E:197:LYS:HE2	5:E:199:ILE:HD11	1.60	0.82
2:B:515:HIS:H	2:B:518:HIS:CD2	1.96	0.82
13:T:24:DG:H2'	13:T:25:DG:C8	2.14	0.82
1:A:84:ILE:HD11	1:A:270:LEU:HD13	1.62	0.82
3:C:32:SER:O	3:C:36:VAL:HG23	1.80	0.82
2:B:640:VAL:HG22	2:B:651:LEU:HD23	1.61	0.82
1:A:49:LYS:NZ	1:A:61:ILE:H	1.78	0.81
1:A:857:ARG:HD3	1:A:861:GLY:O	1.79	0.81
4:D:34:GLN:O	4:D:47:LEU:HD23	1.79	0.81
8:H:26:ILE:HG22	8:H:27:GLU:H	1.45	0.81
10:J:8:PHE:H	10:J:49:MET:HE1	1.45	0.81
5:E:78:LEU:HA	5:E:107:THR:HB	1.63	0.81
1:A:567:LYS:HB3	1:A:568:PRO:HD3	1.62	0.81
1:A:1242:VAL:HG12	1:A:1243:VAL:H	1.44	0.81
2:B:706:GLN:HE21	2:B:730:ARG:HH11	1.29	0.81
4:D:18:VAL:O	4:D:19:GLU:HB2	1.79	0.81
8:H:81:PRO:HB2	8:H:82:PRO:CD	2.11	0.81
10:J:35:ALA:O	10:J:39:LEU:HD12	1.80	0.81
1:A:255:SER:OG	2:B:918:ILE:CG2	2.27	0.81
2:B:193:LYS:NZ	12:L:32:ALA:HB1	1.96	0.81
13:T:9:DC:H2"	13:T:10:DA:C8	2.15	0.81
2:B:1072:MET:HE3	2:B:1085:ILE:HB	1.61	0.81
3:C:20:PHE:HE1	3:C:22:LEU:HB2	1.45	0.81
4:D:8:PHE:HZ	4:D:37:GLN:HB2	1.46	0.81
8:H:100:THR:OG1	8:H:138:GLU:HG3	1.81	0.81
2:B:229:ALA:HB1	2:B:231:PRO:HD2	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:288:ALA:HA	2:B:331:LEU:HD12	1.62	0.81
2:B:1099:VAL:HG13	2:B:1100:ASP:N	1.96	0.81
2:B:1165:ILE:CD1	4:D:17:LYS:HD3	2.10	0.81
3:C:142:VAL:H	10:J:16:ASP:HB3	1.46	0.81
2:B:378:LEU:O	2:B:382:ILE:HG13	1.81	0.81
2:B:1072:MET:CE	2:B:1085:ILE:HB	2.11	0.81
1:A:320:ARG:HH11	1:A:320:ARG:CB	1.91	0.81
3:C:177:GLU:HB2	3:C:231:ASN:HB3	1.62	0.81
4:D:155:ARG:HD3	4:D:221:TYR:CZ	2.16	0.81
5:E:17:ARG:HB2	5:E:17:ARG:HH11	1.43	0.81
12:L:55:ILE:O	12:L:56:LEU:HB2	1.81	0.81
2:B:503:GLY:HA3	2:B:507:LYS:HE2	1.61	0.80
2:B:639:ILE:HD11	2:B:691:GLU:HG3	1.61	0.80
4:D:8:PHE:HD2	7:G:6:ASP:HB2	1.45	0.80
1:A:535:THR:HG21	1:A:616:VAL:HA	1.63	0.80
3:C:66:ARG:HH21	10:J:5:VAL:HG23	1.46	0.80
1:A:903:ASN:HD22	1:A:904:THR:H	1.26	0.80
1:A:1435:PRO:HA	1:A:1439:GLY:O	1.82	0.80
2:B:1115:THR:HG22	2:B:1117:GLN:HG3	1.63	0.80
5:E:178:ILE:HB	5:E:212:ARG:HD2	1.63	0.80
1:A:741:ASN:ND2	1:A:744:LYS:H	1.80	0.80
2:B:827:ILE:HD12	2:B:1086:PHE:HD2	1.46	0.80
2:B:1159:ARG:HB3	2:B:1159:ARG:HH11	1.46	0.80
5:E:17:ARG:HB2	5:E:17:ARG:NH1	1.97	0.80
7:G:27:LYS:HE2	7:G:54:ILE:HB	1.63	0.80
1:A:855:THR:CG2	1:A:857:ARG:HE	1.94	0.80
1:A:1187:GLN:O	1:A:1244:ARG:HG3	1.81	0.80
1:A:1187:GLN:HG3	1:A:1188:GLN:HG3	1.64	0.80
4:D:71:LYS:HG2	4:D:74:GLN:HE21	1.45	0.80
6:F:103:MET:HE2	7:G:66:GLY:H	1.43	0.80
11:K:21:ILE:HG22	11:K:31:VAL:HG11	1.64	0.80
1:A:1394:THR:HG21	1:A:1398:MET:SD	2.22	0.80
13:T:10:DA:H2"	13:T:11:DA:C8	2.16	0.80
4:D:40:HIS:CD2	7:G:73:LYS:HG2	2.17	0.80
1:A:524:VAL:HG12	1:A:525:GLN:N	1.97	0.79
5:E:156:LEU:HD12	5:E:195:VAL:HB	1.62	0.79
1:A:41:MET:CB	1:A:49:LYS:HA	2.11	0.79
1:A:445:ASN:HB2	1:A:455:MET:HG2	1.64	0.79
2:B:186:GLU:HG3	10:J:62:ARG:NH2	1.97	0.79
2:B:193:LYS:HD3	2:B:787:VAL:HG11	1.65	0.79
2:B:746:SER:CB	2:B:1046:PRO:HG2	2.13	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:577:ILE:O	1:A:580:VAL:HG23	1.83	0.79
5:E:19:VAL:O	5:E:23:VAL:HG23	1.82	0.79
1:A:323:LYS:H	1:A:323:LYS:HD2	1.47	0.79
1:A:825:ILE:HD11	2:B:512:ARG:HD3	1.65	0.79
1:A:1447:GLU:OE2	7:G:23:LYS:HB2	1.83	0.79
3:C:8:VAL:O	3:C:9:LYS:HG3	1.81	0.79
4:D:180:LEU:HD23	4:D:195:ILE:HD12	1.63	0.79
6:F:82:THR:HG22	6:F:84:TYR:H	1.47	0.79
1:A:117:GLU:H	1:A:117:GLU:CD	1.86	0.79
1:A:809:THR:H	1:A:812:GLU:HB2	1.46	0.79
2:B:364:ILE:HG12	2:B:585:VAL:HG13	1.65	0.79
4:D:71:LYS:HA	4:D:74:GLN:HG3	1.65	0.79
1:A:829:VAL:HG11	2:B:508:LEU:HD22	1.63	0.79
1:A:1004:ASN:ND2	5:E:167:ARG:HD2	1.97	0.79
5:E:31:THR:HG23	5:E:34:GLU:HB2	1.65	0.79
8:H:100:THR:HG23	8:H:138:GLU:HA	1.65	0.79
1:A:472:LEU:O	1:A:475:THR:HB	1.82	0.79
2:B:1183:LYS:O	2:B:1185:CYS:N	2.15	0.78
2:B:745:PRO:O	2:B:748:ILE:HG12	1.84	0.78
12:L:30:ILE:O	12:L:56:LEU:HD23	1.83	0.78
2:B:821:GLN:HE22	2:B:851:PHE:H	1.30	0.78
5:E:4:GLU:HB3	5:E:7:ARG:HE	1.48	0.78
6:F:99:LEU:O	6:F:103:MET:HG2	1.83	0.78
1:A:392:VAL:HG13	1:A:415:LEU:HD11	1.65	0.78
2:B:516:ASN:HD22	2:B:516:ASN:N	1.77	0.78
2:B:777:ALA:HA	2:B:1095:LEU:HA	1.64	0.78
10:J:44:TYR:H	10:J:44:TYR:HD2	1.29	0.78
1:A:93:VAL:HG22	1:A:301:ALA:HA	1.65	0.78
1:A:590:ARG:HB3	1:A:605:MET:H	1.48	0.78
1:A:1267:MET:HA	1:A:1271:ILE:HD12	1.63	0.78
2:B:830:TYR:HE2	2:B:1000:PRO:HD3	1.48	0.78
1:A:1057:VAL:HG12	1:A:1058:VAL:N	1.98	0.78
2:B:277:LYS:HG3	2:B:338:GLY:HA2	1.66	0.78
1:A:849:MET:HE1	1:A:1061:GLY:HA2	1.63	0.78
1:A:1030:ARG:HG3	1:A:1034:GLU:OE2	1.83	0.78
4:D:213:GLU:O	4:D:217:LEU:HG	1.84	0.78
1:A:560:ILE:HD11	8:H:79:TRP:H	1.47	0.78
2:B:217:ARG:NE	2:B:405:ARG:HB2	1.98	0.78
2:B:345:LYS:O	2:B:347:LYS:HG2	1.84	0.78
1:A:372:LYS:HA	1:A:435:HIS:HD1	1.48	0.78
1:A:779:PHE:CE1	1:A:785:PRO:HD3	2.17	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:21:DC:H2"	13:T:22:DC:H5'	1.64	0.78
1:A:1130:GLN:HG3	1:A:1134:ILE:HD11	1.65	0.77
2:B:345:LYS:O	2:B:347:LYS:N	2.17	0.77
4:D:8:PHE:CD2	7:G:6:ASP:HB2	2.18	0.77
7:G:13:LEU:HD23	7:G:14:HIS:H	1.49	0.77
1:A:266:LEU:HD21	1:A:303:TYR:CE1	2.20	0.77
7:G:128:PRO:O	7:G:138:THR:HG23	1.83	0.77
2:B:46:GLN:HB2	2:B:408:LEU:HD21	1.64	0.77
2:B:826:ALA:HB2	2:B:1008:PRO:HB3	1.67	0.77
1:A:1008:GLN:O	1:A:1011:GLN:HB3	1.85	0.77
1:A:1227:ILE:HG22	1:A:1228:TRP:N	1.99	0.77
2:B:244:LEU:HD11	2:B:366:GLN:HE22	1.49	0.77
2:B:577:ALA:HB1	2:B:589:VAL:CG1	2.10	0.77
2:B:852:ARG:HH22	12:L:70:ARG:C	1.88	0.77
2:B:879:ARG:NH1	2:B:883:LEU:HD23	1.98	0.77
4:D:8:PHE:CZ	4:D:37:GLN:HB2	2.19	0.77
1:A:896:ARG:NH2	1:A:1030:ARG:HE	1.82	0.77
2:B:212:LEU:HD23	2:B:480:SER:HB2	1.65	0.77
13:T:15:DC:C2'	13:T:16:DT:H71	2.14	0.77
1:A:305:ASP:OD2	1:A:326:ARG:HD2	1.84	0.77
2:B:1065:GLN:HE21	2:B:1067:ARG:H	1.32	0.77
7:G:127:PRO:HG2	7:G:138:THR:HG21	1.67	0.77
3:C:116:LYS:HD3	3:C:140:ASN:HA	1.65	0.77
1:A:1027:ALA:O	1:A:1031:VAL:HG23	1.84	0.77
2:B:430:ARG:O	2:B:434:ARG:CD	2.32	0.77
4:D:173:HIS:HD2	4:D:174:PRO:HD2	1.48	0.77
8:H:40:LEU:HB2	8:H:123:MET:HE3	1.65	0.77
1:A:1081:LEU:HD11	1:A:1098:VAL:H	1.48	0.77
1:A:1268:LEU:O	1:A:1269:GLU:HG3	1.85	0.77
2:B:879:ARG:O	2:B:934:LYS:HE2	1.85	0.77
1:A:382:PRO:HD3	1:A:428:TYR:HD2	1.49	0.77
2:B:120:ARG:NE	2:B:955:THR:HG21	1.99	0.77
3:C:238:ILE:HD13	3:C:246:ARG:HH11	1.50	0.77
7:G:115:MET:HB2	7:G:116:PRO:HD2	1.66	0.77
11:K:50:LEU:HD11	11:K:75:ILE:HD13	1.67	0.77
1:A:55:ASP:C	1:A:57:ARG:H	1.84	0.76
1:A:899:VAL:HB	1:A:929:LEU:CD1	2.11	0.76
2:B:497:ARG:NH2	2:B:775:LYS:HE2	2.00	0.76
5:E:23:VAL:HG13	5:E:78:LEU:HD13	1.66	0.76
8:H:91:ASP:O	8:H:93:TYR:N	2.16	0.76
2:B:794:ASN:C	2:B:795:ILE:HD12	2.06	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:57:ILE:HA	10:J:60:PHE:HD2	1.50	0.76
1:A:995:GLU:HA	1:A:995:GLU:OE1	1.84	0.76
1:A:1116:LEU:HB3	1:A:1308:THR:HG22	1.66	0.76
2:B:810:GLU:HB2	2:B:815:ARG:HH22	1.48	0.76
2:B:661:LEU:HD23	2:B:679:TYR:O	1.85	0.76
4:D:134:THR:HG22	4:D:135:GLY:N	1.99	0.76
2:B:549:THR:HB	2:B:628:THR:OG1	1.85	0.76
2:B:579:ARG:HA	2:B:589:VAL:HG22	1.68	0.76
4:D:57:LEU:HD11	4:D:160:VAL:HG21	1.66	0.76
5:E:180:ARG:HH21	5:E:192:ARG:CB	1.97	0.76
10:J:5:VAL:HG12	10:J:6:ARG:HG3	1.67	0.76
4:D:24:ALA:C	4:D:26:THR:H	1.88	0.76
1:A:230:ARG:H	1:A:233:TRP:HE3	1.34	0.76
1:A:903:ASN:HD22	1:A:904:THR:N	1.84	0.76
2:B:430:ARG:O	2:B:434:ARG:HG3	1.86	0.76
9:I:74:GLU:HA	9:I:80:SER:O	1.86	0.76
1:A:7:SER:HB3	2:B:1175:LEU:HD22	1.68	0.76
9:I:105:SER:O	9:I:106:CYS:HB3	1.85	0.76
1:A:534:LEU:O	1:A:574:GLY:HA3	1.86	0.76
7:G:153:GLN:HG2	7:G:154:VAL:HG23	1.68	0.76
8:H:130:ARG:HB3	8:H:134:ASN:HB2	1.66	0.76
1:A:1325:THR:O	5:E:148:GLU:HB2	1.86	0.76
2:B:1150:ARG:HH11	2:B:1150:ARG:CG	1.99	0.76
1:A:672:ASP:HB3	1:A:675:THR:HB	1.68	0.75
2:B:123:THR:OG1	2:B:458:LYS:HE2	1.86	0.75
2:B:579:ARG:HB2	2:B:586:TRP:NE1	2.00	0.75
3:C:101:LEU:O	3:C:102:GLN:HG3	1.85	0.75
1:A:317:LYS:HA	2:B:471:LYS:HE2	1.68	0.75
1:A:910:PRO:HB3	1:A:917:SER:H	1.51	0.75
1:A:1130:GLN:O	1:A:1134:ILE:HG13	1.85	0.75
7:G:138:THR:CG2	7:G:139:ILE:H	1.89	0.75
8:H:26:ILE:O	8:H:27:GLU:HG3	1.86	0.75
10:J:64:ASN:HD22	10:J:65:PRO:HD3	1.48	0.75
1:A:1100:ARG:HH21	1:A:1351:GLU:CG	1.99	0.75
2:B:806:THR:HG22	2:B:808:ALA:N	1.95	0.75
2:B:1095:LEU:HD12	2:B:1095:LEU:N	1.98	0.75
1:A:107:CYS:N	1:A:114:LEU:HD21	2.01	0.75
2:B:168:GLY:HA2	2:B:454:THR:OG1	1.87	0.75
2:B:866:TYR:O	2:B:868:MET:N	2.19	0.75
4:D:144:THR:O	4:D:148:LEU:HB2	1.86	0.75
8:H:84:ALA:HB2	8:H:87:ARG:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:SER:HA	1:A:233:TRP:NE1	2.02	0.75
1:A:695:LYS:HA	1:A:698:GLN:HB2	1.67	0.75
1:A:683:ILE:HD13	1:A:801:GLU:HG3	1.69	0.75
1:A:816:HIS:CD2	2:B:764:SER:HB2	2.22	0.75
5:E:124:VAL:HA	5:E:132:ILE:HD12	1.68	0.75
11:K:45:LEU:HG	11:K:94:ILE:HD13	1.68	0.75
1:A:898:ARG:HD2	1:A:899:VAL:H	1.52	0.75
1:A:1148:ILE:HD11	1:A:1198:ASP:HA	1.69	0.75
2:B:577:ALA:CB	2:B:589:VAL:HG11	2.10	0.75
2:B:789:MET:HE2	2:B:965:LYS:HB3	1.68	0.75
1:A:135:PHE:HD1	1:A:222:LEU:HD22	1.51	0.75
2:B:101:MET:HB2	2:B:169:ARG:HH22	1.52	0.75
2:B:293:PRO:HG2	2:B:296:GLU:HB3	1.68	0.75
1:A:380:VAL:HG12	1:A:428:TYR:HA	1.69	0.75
2:B:710:LEU:HA	2:B:733:HIS:HB3	1.67	0.75
10:J:23:ASN:C	10:J:25:LEU:H	1.90	0.75
1:A:302:THR:HA	1:A:305:ASP:O	1.87	0.74
1:A:1100:ARG:NH2	1:A:1351:GLU:HG2	2.01	0.74
2:B:770:GLN:OE1	2:B:983:ARG:HA	1.87	0.74
3:C:7:GLN:HG2	11:K:104:ASN:ND2	2.01	0.74
9:I:6:PHE:HB3	9:I:12:ASN:O	1.86	0.74
1:A:12:ARG:HB2	2:B:1218:THR:HG22	1.68	0.74
1:A:148:CYS:O	1:A:168:GLY:HA2	1.86	0.74
1:A:697:ALA:HB2	1:A:702:LEU:HD12	1.69	0.74
9:I:111:THR:HG22	9:I:113:ASP:N	2.01	0.74
13:T:18:DA:H1'	13:T:19:8OG:H5'	1.69	0.74
2:B:326:ASP:OD2	2:B:328:GLU:HB3	1.86	0.74
2:B:497:ARG:HH22	2:B:775:LYS:CE	1.99	0.74
2:B:636:PRO:O	2:B:743:ILE:HD11	1.88	0.74
4:D:148:LEU:O	4:D:152:SER:HB3	1.87	0.74
11:K:107:THR:O	11:K:111:LEU:HG	1.87	0.74
1:A:438:ASP:O	1:A:439:ASN:HB2	1.85	0.74
4:D:159:THR:O	4:D:163:VAL:HG23	1.87	0.74
5:E:97:VAL:HG13	5:E:127:ILE:HD13	1.69	0.74
1:A:1193:LEU:HB2	1:A:1260:LEU:HD11	1.69	0.74
3:C:238:ILE:CG2	3:C:242:GLN:HB2	2.17	0.74
3:C:174:ALA:O	10:J:10:CYS:HB2	1.88	0.74
2:B:866:TYR:HB2	2:B:870:ILE:HB	1.68	0.74
2:B:1002:THR:HG23	2:B:1006:ILE:HG13	1.68	0.74
2:B:1201:LYS:HE2	2:B:1205:GLN:OE1	1.87	0.74
1:A:403:LYS:O	1:A:415:LEU:HB2	1.88	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:591:PHE:HA	1:A:595:THR:HG21	1.70	0.74
2:B:807:ARG:HG2	2:B:1045:SER:OG	1.86	0.74
2:B:911:ILE:HD11	2:B:941:LEU:HD13	1.70	0.74
10:J:1:MET:H1	10:J:57:ILE:H	1.33	0.74
14:N:3:DT:H4'	14:N:4:DA:H5'	1.70	0.74
2:B:1159:ARG:HD3	2:B:1193:GLN:HG3	1.70	0.74
3:C:76:ASP:O	3:C:78:GLU:N	2.21	0.74
3:C:259:LEU:HD21	11:K:91:CYS:HB3	1.68	0.74
1:A:135:PHE:CD1	1:A:222:LEU:HD22	2.22	0.74
1:A:808:LEU:HG	1:A:812:GLU:HB3	1.70	0.74
1:A:933:TYR:O	1:A:937:VAL:HG23	1.88	0.74
6:F:75:PRO:HG2	6:F:77:ASP:O	1.87	0.74
1:A:1009:ASN:HA	1:A:1012:ARG:NH1	2.02	0.73
1:A:567:LYS:HG3	8:H:94:ASP:O	1.88	0.73
1:A:825:ILE:HD11	2:B:512:ARG:HB3	1.70	0.73
2:B:351:TYR:O	2:B:355:ILE:HG13	1.89	0.73
2:B:661:LEU:HD11	2:B:684:LEU:HD11	1.68	0.73
2:B:830:TYR:CE2	2:B:1000:PRO:HD3	2.23	0.73
2:B:859:TYR:CZ	2:B:941:LEU:HD12	2.23	0.73
8:H:99:GLY:HA3	8:H:118:PHE:HA	1.69	0.73
2:B:60:GLN:O	2:B:63:ILE:HG22	1.88	0.73
3:C:115:SER:HB3	3:C:142:VAL:HB	1.69	0.73
8:H:130:ARG:N	8:H:130:ARG:HD2	2.03	0.73
1:A:71:GLN:HG3	1:A:72:GLU:H	1.54	0.73
1:A:215:SER:HB3	1:A:218:ASP:OD2	1.87	0.73
2:B:526:GLU:HG2	2:B:538:ASN:HD22	1.54	0.73
3:C:101:LEU:CD1	3:C:118:LEU:HD23	2.15	0.73
3:C:148:ARG:N	3:C:151:GLN:HG3	2.02	0.73
11:K:82:ASP:OD1	11:K:84:LYS:HG3	1.88	0.73
8:H:81:PRO:HG2	8:H:82:PRO:HD2	1.69	0.73
11:K:65:HIS:HD2	11:K:67:PHE:N	1.84	0.73
1:A:825:ILE:CD1	2:B:512:ARG:HB3	2.18	0.73
1:A:87:ALA:HB1	1:A:276:LEU:HD23	1.70	0.73
1:A:849:MET:HB2	1:A:1062:GLU:O	1.89	0.73
1:A:896:ARG:HH21	1:A:1030:ARG:NE	1.87	0.73
1:A:919:ILE:HG23	1:A:925:LEU:HD12	1.70	0.73
7:G:102:GLN:HG3	7:G:106:MET:O	1.88	0.73
13:T:7:DC:H2"	13:T:8:DT:C5	2.24	0.73
1:A:709:THR:HG22	1:A:711:ARG:H	1.54	0.73
2:B:220:GLY:O	2:B:222:ILE:HG13	1.89	0.73
4:D:60:LYS:O	4:D:64:VAL:HG23	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:129:TYR:HA	8:H:131:ASN:ND2	2.04	0.73
2:B:216:GLU:HB3	2:B:500:THR:HG23	1.70	0.73
2:B:613:VAL:HG22	2:B:628:THR:HA	1.70	0.73
3:C:98:VAL:C	3:C:99:LEU:HD23	2.09	0.73
1:A:701:LEU:HD21	9:I:114:GLN:HB2	1.71	0.73
2:B:230:ALA:N	2:B:231:PRO:HD2	2.04	0.73
4:D:137:ASN:ND2	4:D:137:ASN:H	1.87	0.73
9:I:82:GLU:HB3	9:I:104:LEU:HD12	1.71	0.73
1:A:1198:ASP:HB3	1:A:1201:ALA:HB3	1.71	0.72
2:B:906:SER:O	2:B:941:LEU:HD23	1.89	0.72
5:E:92:THR:O	5:E:95:THR:HB	1.89	0.72
7:G:13:LEU:HD21	7:G:17:PHE:HB2	1.70	0.72
1:A:845:LEU:HD12	1:A:1069:ALA:HB2	1.71	0.72
1:A:963:ILE:HD13	1:A:1049:ILE:HG12	1.71	0.72
2:B:95:ILE:HB	2:B:130:VAL:HG22	1.71	0.72
2:B:335:GLY:HA3	2:B:348:ARG:HB2	1.71	0.72
3:C:62:PHE:O	3:C:66:ARG:HG3	1.89	0.72
11:K:21:ILE:HG23	11:K:33:ILE:HG12	1.71	0.72
1:A:167:CYS:HB2	1:A:169:ASN:ND2	2.03	0.72
1:A:847:ASP:OD2	1:A:858:ASN:HB2	1.89	0.72
1:A:1345:ARG:HG3	1:A:1376:THR:HG21	1.71	0.72
7:G:88:ASP:HB3	7:G:144:ARG:HA	1.70	0.72
1:A:37:PHE:HD1	1:A:37:PHE:H	1.38	0.72
1:A:855:THR:HG21	1:A:857:ARG:NE	2.04	0.72
5:E:61:GLN:HG3	5:E:78:LEU:O	1.90	0.72
1:A:774:ARG:NH1	1:A:797:LYS:HG3	2.04	0.72
1:A:1002:GLY:HA3	1:A:1007:ILE:CG2	2.19	0.72
4:D:139:LYS:HE2	4:D:143:ASN:ND2	2.03	0.72
8:H:44:VAL:HG13	8:H:48:PRO:HA	1.72	0.72
1:A:38:PRO:HA	1:A:270:LEU:HD23	1.70	0.72
1:A:567:LYS:HD2	8:H:95:TYR:CD2	2.25	0.72
1:A:1308:THR:HG23	1:A:1309:ASP:N	2.03	0.72
2:B:112:LEU:HD12	2:B:113:TYR:H	1.54	0.72
6:F:109:VAL:CG1	6:F:110:ASP:H	1.97	0.72
1:A:100:LYS:HE2	1:A:104:GLU:OE2	1.89	0.72
1:A:646:PHE:O	1:A:650:GLN:HB2	1.90	0.72
1:A:1332:PHE:N	1:A:1332:PHE:CD2	2.55	0.72
1:A:71:GLN:HG3	1:A:72:GLU:N	2.04	0.72
1:A:332:LYS:H	1:A:337:ARG:HB3	1.55	0.72
1:A:524:VAL:HG12	1:A:525:GLN:H	1.54	0.72
2:B:23:ALA:H	2:B:654:ARG:HB3	1.55	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:175:ALA:HB2	10:J:10:CYS:HB2	1.70	0.72
1:A:53:LEU:HD23	1:A:54:ASN:H	1.53	0.72
1:A:751:SER:O	1:A:752:LYS:HG2	1.89	0.72
1:A:885:THR:O	1:A:940:ARG:HD2	1.88	0.72
1:A:1045:VAL:O	1:A:1049:ILE:HG13	1.90	0.72
2:B:118:ARG:HG2	2:B:204:ILE:HD13	1.72	0.72
7:G:40:GLY:HA2	7:G:157:ILE:HD11	1.72	0.72
8:H:36:CYS:HA	8:H:126:GLU:O	1.89	0.72
1:A:71:GLN:CG	1:A:72:GLU:H	2.00	0.72
2:B:435:THR:O	2:B:435:THR:HG22	1.89	0.72
2:B:801:LYS:O	10:J:52:THR:HG23	1.89	0.72
5:E:52:ARG:HB3	5:E:53:PRO:HD2	1.71	0.72
8:H:38:LEU:HD12	8:H:124:ARG:O	1.90	0.72
12:L:32:ALA:HB3	12:L:33:GLU:OE2	1.89	0.72
1:A:1237:ILE:HG22	1:A:1238:ILE:N	2.05	0.71
1:A:1315:GLU:C	1:A:1317:MET:H	1.92	0.71
3:C:128:ASN:O	3:C:129:ILE:HG13	1.90	0.71
8:H:89:LEU:C	8:H:91:ASP:H	1.91	0.71
1:A:265:LYS:HE2	1:A:302:THR:HG23	1.72	0.71
1:A:567:LYS:HG3	8:H:95:TYR:CA	2.17	0.71
2:B:1085:ILE:N	2:B:1085:ILE:HD12	2.05	0.71
1:A:32:VAL:HG21	1:A:68:GLN:NE2	2.05	0.71
1:A:34:LYS:CB	1:A:36:ARG:HH21	2.03	0.71
1:A:849:MET:CE	1:A:1061:GLY:HA2	2.20	0.71
2:B:1183:LYS:HA	2:B:1186:ASP:HA	1.70	0.71
6:F:72:LYS:HA	6:F:72:LYS:HE3	1.72	0.71
1:A:55:ASP:CG	1:A:55:ASP:O	2.29	0.71
1:A:629:LEU:O	1:A:633:VAL:HG23	1.89	0.71
2:B:277:LYS:O	2:B:278:GLN:HB2	1.88	0.71
2:B:999:MET:HA	2:B:999:MET:CE	2.20	0.71
7:G:62:LEU:HB3	7:G:63:PRO:CD	2.18	0.71
1:A:1161:THR:HG22	1:A:1163:ILE:H	1.55	0.71
2:B:954:VAL:HG13	2:B:964:VAL:HG22	1.72	0.71
3:C:20:PHE:CE1	3:C:22:LEU:HB2	2.25	0.71
1:A:382:PRO:HD3	1:A:428:TYR:CD2	2.25	0.71
3:C:147:LEU:HB2	3:C:151:GLN:HB2	1.71	0.71
3:C:268:ASP:O	3:C:269:LYS:HB2	1.90	0.71
7:G:9:LEU:HD12	7:G:10:ASN:N	2.04	0.71
1:A:822:GLU:O	1:A:825:ILE:HG22	1.90	0.71
1:A:1436:ILE:HD13	2:B:1139:ILE:HG23	1.73	0.71
2:B:179:CYS:SG	2:B:181:LEU:HD12	2.30	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:124:VAL:N	5:E:125:PRO:HD2	2.04	0.71
6:F:80:ALA:HB3	6:F:144:GLU:OE2	1.91	0.71
1:A:590:ARG:HH21	1:A:620:LYS:CB	1.96	0.71
8:H:128:ASN:H	8:H:130:ARG:HH11	1.39	0.71
12:L:40:LEU:HD22	12:L:44:ASP:CG	2.11	0.71
1:A:868:TYR:HD2	1:A:1058:VAL:HG21	1.55	0.71
1:A:901:LEU:H	1:A:926:GLN:HE21	1.37	0.71
2:B:313:MET:O	2:B:316:PRO:HD2	1.91	0.71
2:B:603:LEU:HD12	2:B:609:ILE:HG12	1.73	0.71
4:D:208:GLU:HG3	4:D:212:LYS:HE3	1.73	0.71
11:K:68:PHE:HB3	11:K:70:ARG:HH11	1.55	0.71
2:B:359:GLU:O	2:B:362:PRO:HD3	1.91	0.71
6:F:135:ARG:HG2	6:F:137:TYR:CE1	2.26	0.71
7:G:143:ILE:HG22	7:G:144:ARG:N	2.05	0.71
1:A:92:HIS:HB2	1:A:236:LEU:HD21	1.71	0.70
1:A:853:ASP:O	1:A:854:ASN:HB2	1.91	0.70
1:A:868:TYR:OH	1:A:1366:ARG:HD3	1.90	0.70
3:C:193:TYR:HD2	3:C:197:SER:HB3	1.54	0.70
3:C:256:ALA:HA	3:C:259:LEU:HD23	1.72	0.70
1:A:332:LYS:CA	1:A:337:ARG:HD2	2.21	0.70
1:A:888:GLY:O	1:A:940:ARG:NH2	2.24	0.70
2:B:900:ALA:HB3	12:L:61:THR:OG1	1.91	0.70
2:B:1065:GLN:HG3	2:B:1067:ARG:H	1.56	0.70
2:B:1215:ARG:NH1	4:D:15:LEU:HD21	2.05	0.70
6:F:97:ARG:O	6:F:101:ILE:HG13	1.92	0.70
1:A:7:SER:CB	2:B:1175:LEU:HD22	2.20	0.70
1:A:10:PRO:HB3	4:D:3:VAL:HA	1.73	0.70
1:A:315:LEU:HD13	2:B:471:LYS:HB3	1.72	0.70
1:A:896:ARG:HH21	1:A:1030:ARG:HE	1.35	0.70
3:C:56:THR:HG21	3:C:145:CYS:SG	2.32	0.70
9:I:58:VAL:HG13	9:I:62:ILE:HD12	1.72	0.70
2:B:898:LEU:HD13	2:B:952:VAL:HG11	1.73	0.70
8:H:32:THR:HG22	8:H:33:GLN:H	1.57	0.70
7:G:1:MET:SD	7:G:79:PHE:HD1	2.14	0.70
11:K:68:PHE:HB3	11:K:70:ARG:NH1	2.06	0.70
1:A:526:ASP:HB2	2:B:835:GLN:OE1	1.91	0.70
2:B:464:GLY:O	2:B:477:ALA:HA	1.91	0.70
3:C:239:PRO:HB2	3:C:241:ASP:OD1	1.90	0.70
7:G:34:VAL:HG11	7:G:74:TYR:HE1	1.56	0.70
1:A:35:ILE:CG2	1:A:84:ILE:HD12	2.21	0.70
1:A:828:ALA:CB	2:B:530:GLY:HA2	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:589:VAL:HG12	2:B:590:HIS:N	2.06	0.70
6:F:90:ARG:HG3	6:F:91:ALA:N	2.06	0.70
1:A:84:ILE:O	1:A:84:ILE:HG23	1.92	0.70
2:B:101:MET:HB2	2:B:169:ARG:NH2	2.07	0.70
2:B:824:ILE:HG22	2:B:1087:PHE:CE2	2.27	0.70
8:H:64:ASN:HD22	8:H:88:SER:CB	2.04	0.70
1:A:49:LYS:NZ	1:A:61:ILE:HG13	2.06	0.70
2:B:850:LEU:HD12	2:B:851:PHE:N	2.06	0.70
2:B:978:ASP:OD2	2:B:1098:MET:HG2	1.91	0.70
5:E:100:ILE:HG23	5:E:105:PHE:HB2	1.73	0.70
1:A:852:TYR:CD2	1:A:1060:PRO:HB2	2.27	0.69
2:B:54:PHE:O	2:B:58:THR:HB	1.92	0.69
2:B:60:GLN:HE22	2:B:94:LYS:HA	1.57	0.69
4:D:47:LEU:HD13	4:D:48:ILE:N	2.04	0.69
5:E:16:PHE:CZ	5:E:20:LYS:HE2	2.27	0.69
6:F:106:PRO:HB2	6:F:108:PHE:CE2	2.27	0.69
1:A:353:ILE:HD13	1:A:487:MET:HE2	1.72	0.69
1:A:447:GLN:HE22	13:T:20:DG:H4'	1.55	0.69
1:A:852:TYR:CD1	6:F:136:ARG:HB3	2.28	0.69
1:A:1006:ILE:CD1	5:E:163:GLU:HG3	2.20	0.69
1:A:1210:GLY:O	1:A:1214:GLU:HG2	1.92	0.69
2:B:465:ASN:N	2:B:465:ASN:ND2	2.40	0.69
3:C:73:GLN:HE21	3:C:75:MET:N	1.89	0.69
6:F:73:ALA:HB1	6:F:143:PHE:O	1.91	0.69
10:J:44:TYR:HA	10:J:47:ARG:HB2	1.73	0.69
1:A:14:VAL:N	1:A:1432:GLN:HE22	1.87	0.69
1:A:602:ASP:HB3	1:A:616:VAL:HG23	1.74	0.69
2:B:291:ILE:HD13	2:B:300:HIS:NE2	2.07	0.69
2:B:1065:GLN:HE21	2:B:1067:ARG:N	1.89	0.69
3:C:18:VAL:HG23	3:C:240:VAL:HG12	1.74	0.69
3:C:89:GLU:O	3:C:90:ASP:HB3	1.90	0.69
12:L:60:ARG:HH21	12:L:65:VAL:HG21	1.57	0.69
1:A:567:LYS:CB	1:A:568:PRO:HD3	2.23	0.69
1:A:825:ILE:HG23	1:A:826:ASP:N	2.08	0.69
1:A:1120:LEU:H	1:A:1120:LEU:HD12	1.57	0.69
2:B:243:ALA:HB2	2:B:251:ILE:HG12	1.74	0.69
2:B:465:ASN:N	2:B:465:ASN:HD22	1.89	0.69
2:B:821:GLN:HE22	2:B:851:PHE:N	1.90	0.69
5:E:168:TYR:HB3	5:E:170:LEU:HG	1.74	0.69
1:A:443:LEU:HD23	1:A:501:LEU:CD2	2.22	0.69
1:A:1420:ASP:O	1:A:1421:CYS:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:183:TRP:CZ2	3:C:207:CYS:HB3	2.28	0.69
5:E:124:VAL:HG13	5:E:132:ILE:HG13	1.73	0.69
5:E:190:LEU:HD12	5:E:214:CYS:HB2	1.75	0.69
1:A:53:LEU:HD23	1:A:54:ASN:HB3	1.74	0.69
1:A:1161:THR:HG22	1:A:1163:ILE:HG13	1.74	0.69
2:B:326:ASP:C	2:B:328:GLU:H	1.95	0.69
2:B:1202:LEU:O	2:B:1206:GLU:HG3	1.92	0.69
3:C:261:ALA:O	3:C:265:MET:HB2	1.92	0.69
7:G:45:ILE:HA	7:G:78:VAL:HG12	1.73	0.69
7:G:96:GLN:O	7:G:112:LYS:HD3	1.92	0.69
7:G:125:SER:OG	7:G:128:PRO:HA	1.92	0.69
8:H:14:GLU:HG2	8:H:15:VAL:N	2.08	0.69
8:H:82:PRO:HG3	11:K:54:ARG:HH11	1.56	0.69
1:A:72:GLU:HB3	1:A:76:GLU:HG2	1.75	0.69
1:A:106:VAL:HG13	1:A:112:LYS:O	1.93	0.69
1:A:596:THR:C	1:A:598:LEU:H	1.97	0.69
2:B:121:ASN:HA	2:B:207:GLY:HA2	1.75	0.69
2:B:169:ARG:HB2	2:B:454:THR:HG23	1.75	0.69
3:C:238:ILE:HG23	3:C:242:GLN:HB2	1.75	0.69
1:A:49:LYS:HZ3	1:A:61:ILE:HG13	1.58	0.69
1:A:356:ASP:HB2	1:A:469:ARG:HH12	1.58	0.69
1:A:1151:GLU:HG2	9:I:45:ARG:HB2	1.75	0.69
1:A:1312:ASN:O	1:A:1316:VAL:HG23	1.93	0.69
2:B:25:ILE:HD11	2:B:653:VAL:O	1.92	0.69
2:B:563:MET:CE	2:B:580:VAL:HB	2.23	0.69
2:B:1017:ILE:HB	2:B:1018:PRO:HD3	1.74	0.69
9:I:58:VAL:HG13	9:I:62:ILE:CD1	2.23	0.69
1:A:353:ILE:HG21	1:A:487:MET:HE3	1.74	0.68
1:A:567:LYS:CE	8:H:47:PHE:HB2	2.23	0.68
1:A:898:ARG:HD2	1:A:899:VAL:N	2.08	0.68
1:A:1032:LEU:O	1:A:1036:ARG:HD3	1.94	0.68
2:B:289:LEU:HD13	2:B:375:ALA:CB	2.23	0.68
2:B:613:VAL:HG13	2:B:627:PHE:O	1.92	0.68
3:C:36:VAL:HG21	3:C:251:LEU:HD13	1.74	0.68
3:C:251:LEU:O	3:C:255:VAL:HG23	1.94	0.68
1:A:12:ARG:HD2	2:B:1218:THR:HB	1.73	0.68
1:A:1208:THR:HB	1:A:1211:GLN:HG3	1.75	0.68
5:E:145:THR:HG21	5:E:187:TYR:CE2	2.28	0.68
7:G:119:LEU:HD12	7:G:131:GLN:O	1.93	0.68
1:A:382:PRO:HB3	1:A:428:TYR:HE2	1.56	0.68
1:A:442:VAL:O	1:A:457:ALA:HA	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:LEU:HD23	1:A:799:PHE:CD1	2.28	0.68
1:A:1081:LEU:HD11	1:A:1097:GLY:HA3	1.75	0.68
1:A:1116:LEU:HB3	1:A:1308:THR:HG21	1.75	0.68
2:B:309:GLN:OE1	9:I:52:ILE:HD11	1.93	0.68
5:E:202:SER:OG	5:E:204:THR:HG22	1.94	0.68
1:A:11:LEU:HD12	2:B:1193:GLN:O	1.92	0.68
1:A:547:LEU:HD22	11:K:58:PHE:CE1	2.28	0.68
1:A:1348:LEU:O	1:A:1352:VAL:HG23	1.93	0.68
7:G:44:TYR:HE1	7:G:157:ILE:H	1.40	0.68
1:A:1063:MET:CG	1:A:1436:ILE:HG23	2.24	0.68
1:A:573:SER:O	1:A:576:GLN:HB2	1.93	0.68
1:A:1345:ARG:NH1	5:E:200:ARG:HH22	1.92	0.68
2:B:90:ILE:HG23	2:B:133:LYS:O	1.93	0.68
2:B:253:THR:HG22	2:B:254:LEU:H	1.58	0.68
2:B:952:VAL:HG22	2:B:966:VAL:HG13	1.74	0.68
2:B:1095:LEU:H	2:B:1095:LEU:CD1	1.96	0.68
4:D:40:HIS:HD2	7:G:73:LYS:HG2	1.57	0.68
11:K:55:LYS:HB3	11:K:81:TYR:CD1	2.28	0.68
2:B:620:ARG:NH1	9:I:68:LEU:HD21	2.08	0.68
8:H:109:LYS:HD2	8:H:111:LEU:HD11	1.76	0.68
9:I:99:LEU:O	9:I:111:THR:HG23	1.94	0.68
1:A:741:ASN:HD22	1:A:744:LYS:H	1.42	0.68
1:A:960:ILE:HA	1:A:963:ILE:HG22	1.76	0.68
2:B:326:ASP:CG	2:B:328:GLU:HB3	2.14	0.68
2:B:1069:PHE:HA	2:B:1085:ILE:O	1.94	0.68
2:B:1084:GLN:OE1	3:C:189:THR:HG22	1.92	0.68
3:C:43:THR:CG2	3:C:44:LEU:H	1.95	0.68
3:C:238:ILE:CD1	3:C:246:ARG:HH11	2.07	0.68
11:K:31:VAL:HG12	11:K:32:VAL:N	2.06	0.68
1:A:717:ASN:HA	1:A:720:ARG:NH1	2.09	0.68
2:B:824:ILE:CG2	2:B:1087:PHE:HE2	2.06	0.68
3:C:34:ARG:HA	3:C:37:MET:HE2	1.76	0.68
4:D:47:LEU:O	4:D:48:ILE:HD13	1.92	0.68
5:E:22:MET:HE3	5:E:26:ARG:NH1	2.06	0.68
6:F:84:TYR:CE2	6:F:152:ILE:HD12	2.29	0.68
1:A:1081:LEU:CD1	1:A:1098:VAL:H	2.07	0.68
2:B:219:ALA:HB2	2:B:405:ARG:NH1	2.08	0.68
2:B:563:MET:HE3	2:B:580:VAL:HB	1.76	0.68
2:B:1099:VAL:CG1	2:B:1100:ASP:H	2.05	0.68
6:F:74:ILE:HG23	6:F:75:PRO:HD2	1.75	0.68
2:B:211:VAL:HG23	2:B:483:LEU:HB2	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:654:ARG:H	2:B:657:HIS:CD2	2.08	0.67
2:B:701:ILE:HD11	2:B:703:ILE:HD11	1.74	0.67
1:A:180:LYS:HZ1	1:A:294:SER:HB3	1.57	0.67
1:A:528:LEU:O	1:A:531:ILE:HG22	1.95	0.67
1:A:903:ASN:ND2	1:A:904:THR:N	2.41	0.67
1:A:1308:THR:HG23	1:A:1310:GLY:H	1.59	0.67
2:B:1224:PHE:CE1	5:E:171:LYS:HG3	2.29	0.67
1:A:102:VAL:HB	1:A:211:PHE:CZ	2.30	0.67
1:A:526:ASP:HB2	2:B:835:GLN:CD	2.15	0.67
1:A:1223:ASP:HA	1:A:1243:VAL:HG11	1.76	0.67
1:A:1276:VAL:HG12	1:A:1277:GLU:H	1.58	0.67
2:B:31:TRP:CZ3	2:B:34:ILE:HD12	2.28	0.67
2:B:521:LEU:HB3	2:B:633:VAL:HG11	1.75	0.67
1:A:33:ALA:HB3	1:A:82:GLY:HA3	1.77	0.67
1:A:709:THR:HG21	9:I:93:LYS:O	1.95	0.67
1:A:836:TYR:CE2	1:A:840:ARG:HD2	2.29	0.67
1:A:866:PHE:C	1:A:867:ILE:HD12	2.14	0.67
1:A:129:LYS:O	1:A:130:ASP:HB2	1.93	0.67
3:C:3:GLU:CB	11:K:104:ASN:HD21	2.07	0.67
9:I:71:SER:OG	9:I:83:ASN:HB2	1.93	0.67
1:A:608:ILE:HB	1:A:613:ILE:HD11	1.76	0.67
1:A:732:LEU:O	1:A:736:ASN:HB2	1.95	0.67
2:B:289:LEU:HD13	2:B:375:ALA:HB2	1.76	0.67
2:B:942:ARG:HH22	13:T:23:BRU:H5"	1.58	0.67
1:A:265:LYS:HE2	1:A:302:THR:CG2	2.24	0.67
1:A:1144:LYS:HB2	1:A:1268:LEU:O	1.94	0.67
1:A:1224:LEU:HD11	1:A:1240:CYS:HB2	1.76	0.67
2:B:579:ARG:HB2	2:B:586:TRP:HE1	1.56	0.67
2:B:1174:LYS:O	2:B:1176:ASN:N	2.28	0.67
14:N:2:DG:H4'	14:N:3:DT:OP1	1.93	0.67
1:A:963:ILE:HD11	1:A:1048:ASN:CB	2.25	0.67
1:A:1175:SER:O	1:A:1176:LEU:HB2	1.94	0.67
2:B:800:GLN:HB3	10:J:52:THR:CG2	2.24	0.67
5:E:136:ASN:O	5:E:140:LEU:HG	1.95	0.67
11:K:21:ILE:HG22	11:K:31:VAL:CG1	2.24	0.67
1:A:335:ARG:CD	2:B:1202:LEU:HD23	2.25	0.67
2:B:430:ARG:O	2:B:434:ARG:CG	2.43	0.67
2:B:1150:ARG:HA	2:B:1154:ALA:HB3	1.77	0.67
1:A:2:VAL:HG11	2:B:1157:ALA:CB	2.25	0.67
1:A:58:LEU:HD22	1:A:80:HIS:O	1.95	0.67
1:A:630:ILE:HD11	1:A:646:PHE:HZ	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:647:GLY:O	1:A:651:LYS:HG3	1.94	0.67
1:A:1127:ASP:CG	1:A:1130:GLN:HB2	2.15	0.67
1:A:1372:VAL:O	1:A:1376:THR:HG22	1.95	0.67
2:B:35:SER:O	2:B:39:ARG:HG3	1.94	0.67
3:C:184:ASN:ND2	3:C:187:LYS:HA	2.09	0.67
7:G:23:LYS:HG3	7:G:56:ILE:CD1	2.24	0.67
2:B:769:TYR:CE1	15:P:11:U:H2'	2.30	0.66
2:B:785:TYR:CE1	2:B:795:ILE:HG12	2.30	0.66
1:A:284:ALA:C	1:A:286:HIS:H	1.96	0.66
1:A:399:HIS:CB	1:A:400:PRO:HD3	2.24	0.66
1:A:406:ILE:HG13	1:A:431:LYS:HB2	1.75	0.66
1:A:504:LEU:HD11	6:F:91:ALA:HB1	1.77	0.66
1:A:1052:GLN:HA	1:A:1055:ARG:NH1	2.10	0.66
1:A:869:GLY:O	5:E:204:THR:HG21	1.95	0.66
2:B:102:VAL:HG11	12:L:54:ARG:NH2	2.09	0.66
2:B:294:ASP:O	2:B:296:GLU:N	2.29	0.66
2:B:416:LEU:HD11	2:B:466:TRP:CZ2	2.30	0.66
2:B:827:ILE:HD12	2:B:1086:PHE:CD2	2.29	0.66
2:B:999:MET:HA	2:B:999:MET:HE3	1.75	0.66
4:D:117:GLU:O	4:D:118:THR:HG23	1.94	0.66
1:A:335:ARG:HH11	2:B:1202:LEU:CD2	2.07	0.66
1:A:873:MET:C	1:A:1058:VAL:HG23	2.16	0.66
2:B:575:PRO:HG2	2:B:576:ASP:H	1.59	0.66
2:B:583:ASN:HD21	2:B:628:THR:HG22	1.60	0.66
2:B:792:MET:HA	2:B:856:PHE:O	1.96	0.66
2:B:1215:ARG:C	2:B:1216:LEU:HD23	2.15	0.66
8:H:26:ILE:HG22	8:H:27:GLU:N	2.10	0.66
2:B:114:PRO:HG2	2:B:115:GLN:H	1.61	0.66
2:B:639:ILE:HD11	2:B:691:GLU:CG	2.26	0.66
3:C:8:VAL:HG12	3:C:9:LYS:H	1.60	0.66
8:H:125:LEU:HG	8:H:126:GLU:H	1.59	0.66
11:K:53:ASP:HB3	11:K:56:VAL:HG23	1.75	0.66
1:A:310:GLY:O	1:A:312:PRO:HD2	1.94	0.66
1:A:1120:LEU:HD22	1:A:1124:HIS:O	1.96	0.66
7:G:23:LYS:HG3	7:G:56:ILE:HD11	1.78	0.66
1:A:335:ARG:HD2	2:B:1206:GLU:OE1	1.94	0.66
1:A:541:ILE:HD13	1:A:549:MET:CE	2.26	0.66
1:A:746:MET:HE3	2:B:1018:PRO:HG2	1.78	0.66
2:B:164:LYS:HE2	2:B:164:LYS:N	2.11	0.66
2:B:253:THR:HG22	2:B:254:LEU:N	2.11	0.66
2:B:343:ILE:HD12	2:B:347:LYS:HE2	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1048:THR:OG1	2:B:1050:ILE:HD13	1.96	0.66
5:E:156:LEU:HA	5:E:160:GLU:OE1	1.95	0.66
1:A:265:LYS:HD3	1:A:303:TYR:HA	1.76	0.66
2:B:276:ILE:HA	2:B:337:ARG:O	1.95	0.66
2:B:800:GLN:HB2	2:B:821:GLN:HA	1.76	0.66
4:D:56:ARG:HB2	4:D:148:LEU:HD22	1.77	0.66
5:E:153:HIS:HB3	5:E:196:VAL:CG1	2.26	0.66
9:I:35:VAL:HG12	9:I:36:GLU:N	2.11	0.66
9:I:76:PRO:HD2	9:I:108:HIS:HD2	1.60	0.66
10:J:64:ASN:CB	10:J:65:PRO:CD	2.71	0.66
1:A:407:ARG:HG2	1:A:430:TRP:CH2	2.31	0.66
1:A:832:ALA:HA	13:T:18:DA:C8	2.30	0.66
2:B:102:VAL:HG23	2:B:112:LEU:HB2	1.77	0.66
3:C:242:GLN:C	3:C:244:VAL:H	1.98	0.66
4:D:32:GLU:OE1	7:G:41:LYS:HE2	1.96	0.66
2:B:723:VAL:HG12	2:B:724:ASP:N	2.08	0.66
2:B:934:LYS:O	2:B:934:LYS:CG	2.41	0.66
2:B:1084:GLN:HG2	3:C:201:TRP:CZ2	2.30	0.66
5:E:55:ARG:C	5:E:57:MET:H	1.99	0.66
9:I:71:SER:HG	9:I:101:PHE:HD2	1.44	0.66
1:A:356:ASP:OD1	1:A:358:ASN:N	2.27	0.65
2:B:57:TYR:H	2:B:57:TYR:HD1	1.41	0.65
2:B:314:LEU:O	2:B:318:VAL:HG23	1.96	0.65
2:B:546:SER:OG	2:B:631:GLY:N	2.27	0.65
2:B:599:THR:O	2:B:603:LEU:HB2	1.96	0.65
2:B:980:PHE:HE2	2:B:1094:ARG:HB2	1.61	0.65
2:B:1183:LYS:C	2:B:1186:ASP:H	1.99	0.65
4:D:53:SER:H	4:D:148:LEU:HD21	1.59	0.65
4:D:134:THR:CG2	4:D:135:GLY:H	2.07	0.65
13:T:9:DC:H2"	13:T:10:DA:H8	1.58	0.65
1:A:43:GLU:HG3	1:A:48:ALA:HB3	1.78	0.65
1:A:528:LEU:HD23	1:A:751:SER:HB3	1.78	0.65
1:A:575:LYS:HD2	8:H:120:GLY:HA2	1.79	0.65
1:A:666:ILE:HD12	1:A:667:GLY:N	2.06	0.65
1:A:1111:MET:HE1	1:A:1331:SER:HA	1.77	0.65
4:D:155:ARG:HH11	4:D:155:ARG:HG3	1.62	0.65
4:D:180:LEU:CD2	4:D:195:ILE:HD12	2.26	0.65
5:E:124:VAL:N	5:E:125:PRO:CD	2.59	0.65
8:H:33:GLN:NE2	8:H:35:GLN:HB2	1.98	0.65
9:I:82:GLU:O	9:I:104:LEU:HG	1.97	0.65
1:A:174:ILE:HG22	1:A:175:ARG:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:572:TRP:HA	1:A:576:GLN:OE1	1.96	0.65
2:B:778:MET:HE2	2:B:1094:ARG:HG2	1.77	0.65
3:C:176:ILE:HG22	3:C:177:GLU:N	2.11	0.65
4:D:173:HIS:CD2	4:D:174:PRO:HD2	2.31	0.65
8:H:81:PRO:CG	8:H:82:PRO:HD2	2.26	0.65
1:A:12:ARG:O	2:B:1194:ILE:HG22	1.96	0.65
1:A:321:PRO:O	1:A:322:VAL:HG12	1.96	0.65
1:A:541:ILE:HD13	1:A:549:MET:HE3	1.79	0.65
2:B:243:ALA:HA	2:B:250:PHE:O	1.95	0.65
2:B:460:ALA:HB1	2:B:466:TRP:CZ3	2.30	0.65
4:D:137:ASN:HD22	4:D:137:ASN:N	1.94	0.65
4:D:155:ARG:HD3	4:D:221:TYR:CE1	2.32	0.65
9:I:4:PHE:HE1	9:I:6:PHE:HE2	1.43	0.65
1:A:682:THR:CG2	1:A:728:LYS:HE3	2.27	0.65
2:B:708:GLU:HG3	2:B:709:ASP:H	1.61	0.65
2:B:857:ARG:HH21	2:B:942:ARG:NH2	1.92	0.65
8:H:64:ASN:CG	8:H:90:ALA:H	1.99	0.65
10:J:14:VAL:O	10:J:14:VAL:HG12	1.96	0.65
1:A:1424:VAL:HG13	1:A:1436:ILE:CD1	2.20	0.65
3:C:68:GLY:O	3:C:169:LYS:HB2	1.97	0.65
10:J:30:LEU:HD11	10:J:38:ARG:NH1	2.11	0.65
1:A:851:HIS:O	1:A:853:ASP:N	2.30	0.65
1:A:1036:ARG:HG2	1:A:1036:ARG:HH11	1.61	0.65
2:B:578:THR:H	2:B:589:VAL:CG1	2.10	0.65
2:B:872:GLU:OE1	2:B:914:LYS:HE3	1.96	0.65
2:B:1180:PHE:HB3	2:B:1191:ILE:HD12	1.78	0.65
3:C:82:TYR:CZ	3:C:161:LYS:HG2	2.32	0.65
1:A:427:GLN:HB2	1:A:430:TRP:CE2	2.32	0.65
2:B:1069:PHE:H	2:B:1069:PHE:HD1	1.44	0.65
1:A:35:ILE:HA	1:A:52:GLY:O	1.97	0.65
1:A:93:VAL:CG2	1:A:301:ALA:HA	2.26	0.65
1:A:743:VAL:O	1:A:747:VAL:HG23	1.97	0.65
2:B:387:LEU:O	2:B:392:ARG:HB2	1.97	0.65
6:F:75:PRO:O	6:F:77:ASP:O	2.15	0.65
1:A:306:ASN:ND2	1:A:322:VAL:HG12	2.12	0.65
1:A:332:LYS:HA	1:A:337:ARG:HD2	1.79	0.65
1:A:416:ARG:HG3	1:A:417:TYR:CE2	2.32	0.65
1:A:666:ILE:N	2:B:1026:LEU:HD13	2.08	0.65
1:A:832:ALA:HA	13:T:18:DA:N7	2.11	0.65
1:A:868:TYR:CE1	1:A:1064:VAL:HG11	2.31	0.65
1:A:886:ILE:HG23	1:A:887:GLY:N	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1223:ASP:HA	1:A:1243:VAL:CG1	2.27	0.65
1:A:1259:MET:HG3	1:A:1262:LYS:HZ2	1.62	0.65
2:B:25:ILE:HG23	2:B:658:ILE:HD11	1.79	0.65
2:B:172:ILE:HD13	2:B:178:ASN:HD22	1.61	0.65
2:B:999:MET:HE2	2:B:1000:PRO:HD3	1.77	0.65
3:C:39:ALA:O	3:C:164:ALA:HB3	1.97	0.65
4:D:180:LEU:HD21	4:D:198:LEU:HD11	1.79	0.65
7:G:13:LEU:HD23	7:G:14:HIS:N	2.11	0.65
9:I:111:THR:HG22	9:I:112:SER:N	2.12	0.65
1:A:1074:GLU:C	1:A:1076:ALA:H	2.01	0.64
2:B:283:VAL:HG21	2:B:317:CYS:O	1.97	0.64
2:B:999:MET:HG3	2:B:1000:PRO:CD	2.20	0.64
3:C:181:ASP:OD2	3:C:185:LYS:N	2.30	0.64
5:E:114:ASN:O	5:E:115:ASN:CB	2.45	0.64
6:F:118:LEU:HD12	6:F:118:LEU:O	1.97	0.64
8:H:80:ARG:HH11	11:K:57:LEU:HD21	1.62	0.64
1:A:981:LEU:CD2	1:A:1039:LYS:HA	2.23	0.64
1:A:65:LEU:HD22	1:A:71:GLN:OE1	1.97	0.64
1:A:356:ASP:HB2	1:A:469:ARG:NH1	2.11	0.64
1:A:384:ASN:O	1:A:386:ASP:N	2.31	0.64
2:B:956:THR:HG22	2:B:957:ASN:H	1.63	0.64
3:C:5:GLY:O	3:C:7:GLN:HG3	1.98	0.64
6:F:79:ARG:HG2	6:F:79:ARG:NH1	2.11	0.64
9:I:50:THR:HG22	9:I:51:ASN:N	2.11	0.64
10:J:2:ILE:CG2	10:J:3:VAL:N	2.59	0.64
11:K:19:LEU:HD22	11:K:33:ILE:HG21	1.79	0.64
11:K:61:TYR:C	11:K:61:TYR:CD2	2.70	0.64
1:A:868:TYR:CD2	1:A:1058:VAL:HG21	2.32	0.64
2:B:1007:VAL:CG2	2:B:1008:PRO:HD2	2.27	0.64
9:I:76:PRO:HD2	9:I:108:HIS:CD2	2.32	0.64
2:B:516:ASN:N	2:B:516:ASN:ND2	2.45	0.64
2:B:854:LEU:O	2:B:855:PHE:HB2	1.96	0.64
2:B:1001:PHE:CE1	2:B:1073:TYR:HB2	2.31	0.64
6:F:119:ARG:HH11	6:F:119:ARG:HG3	1.62	0.64
8:H:42:ILE:HG12	8:H:95:TYR:CE1	2.32	0.64
1:A:172:PRO:HB3	1:A:185:TRP:CD2	2.33	0.64
1:A:182:VAL:HG22	1:A:201:VAL:HA	1.78	0.64
1:A:630:ILE:HG23	1:A:631:HIS:N	2.13	0.64
1:A:903:ASN:ND2	1:A:904:THR:H	1.94	0.64
1:A:1155:ASP:OD2	1:A:1161:THR:HA	1.98	0.64
2:B:68:THR:OG1	2:B:91:SER:HB3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:637:LEU:C	2:B:690:VAL:HG13	2.18	0.64
3:C:232:VAL:HG21	3:C:244:VAL:HG22	1.78	0.64
7:G:15:PRO:HA	7:G:18:PHE:CE1	2.32	0.64
2:B:1084:GLN:N	2:B:1084:GLN:NE2	2.46	0.64
1:A:567:LYS:HD3	1:A:568:PRO:HD3	1.80	0.64
1:A:1072:ILE:HD11	1:A:1368:MET:HA	1.80	0.64
2:B:706:GLN:NE2	2:B:730:ARG:HH11	1.94	0.64
1:A:68:GLN:O	1:A:70:CYS:N	2.28	0.64
1:A:1063:MET:HG3	1:A:1436:ILE:HG23	1.80	0.64
1:A:1211:GLN:O	1:A:1214:GLU:HB2	1.98	0.64
2:B:23:ALA:HB1	2:B:24:PRO:HD2	1.78	0.64
2:B:165:VAL:HG11	2:B:448:ILE:CD1	2.18	0.64
3:C:24:ASN:HA	3:C:226:ASP:HB3	1.79	0.64
4:D:68:ARG:O	4:D:72:ARG:HG3	1.98	0.64
1:A:1066:VAL:O	1:A:1070:GLN:HG3	1.98	0.64
1:A:1293:SER:OG	1:A:1295:THR:HG23	1.98	0.64
2:B:53:GLN:HG2	2:B:547:VAL:CG2	2.28	0.64
2:B:593:PRO:HG2	2:B:617:ARG:CZ	2.28	0.64
2:B:755:ILE:HG23	2:B:809:MET:CE	2.28	0.64
2:B:882:THR:HG22	2:B:884:ARG:H	1.61	0.64
1:A:69:THR:C	1:A:71:GLN:N	2.49	0.63
1:A:947:PHE:CE2	1:A:954:TRP:CE2	2.86	0.63
1:A:1141:THR:OG1	1:A:1205:LYS:HD3	1.97	0.63
1:A:1441:PHE:CE2	6:F:89:GLU:HG2	2.34	0.63
2:B:1007:VAL:HG22	2:B:1008:PRO:HD2	1.80	0.63
3:C:166:GLU:C	11:K:6:ARG:HH11	2.01	0.63
5:E:167:ARG:O	5:E:168:TYR:HD2	1.81	0.63
1:A:993:LEU:HD23	1:A:1022:LEU:HD11	1.79	0.63
1:A:1343:ALA:O	1:A:1346:ALA:HB3	1.97	0.63
2:B:865:LYS:HD2	2:B:961:LEU:HD21	1.80	0.63
5:E:124:VAL:HG13	5:E:132:ILE:CG1	2.28	0.63
1:A:1404:GLU:HB2	1:A:1408:ILE:CD1	2.29	0.63
1:A:1444:MET:HB3	7:G:59:GLY:O	1.97	0.63
2:B:127:GLY:C	2:B:128:LEU:HD12	2.19	0.63
2:B:520:GLY:H	2:B:748:ILE:HG22	1.62	0.63
2:B:983:ARG:HD2	2:B:1091:TYR:HB3	1.80	0.63
2:B:1072:MET:HE3	2:B:1085:ILE:HD13	1.79	0.63
3:C:66:ARG:HH22	10:J:2:ILE:CG2	2.12	0.63
3:C:169:LYS:NZ	12:L:69:ALA:HB3	2.12	0.63
7:G:106:MET:HG2	7:G:107:LYS:N	2.13	0.63
1:A:111:GLY:O	1:A:214:ILE:HA	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:285:PRO:HG2	1:A:288:ALA:HB3	1.80	0.63
1:A:443:LEU:HD11	1:A:455:MET:HB3	1.81	0.63
1:A:860:LEU:HD13	1:A:1393:ASN:HD22	1.63	0.63
2:B:130:VAL:HG23	2:B:167:ILE:HD13	1.80	0.63
2:B:363:HIS:O	2:B:364:ILE:HB	1.97	0.63
2:B:806:THR:HG23	2:B:1046:PRO:HD3	1.81	0.63
2:B:955:THR:CG2	2:B:956:THR:N	2.60	0.63
8:H:100:THR:HG22	8:H:101:ALA:N	2.14	0.63
1:A:76:GLU:O	1:A:78:PRO:HD3	1.98	0.63
1:A:79:GLY:HA3	1:A:243:PRO:HG3	1.79	0.63
1:A:986:ILE:HD12	1:A:1032:LEU:HD11	1.80	0.63
2:B:53:GLN:HG2	2:B:547:VAL:HG23	1.79	0.63
2:B:785:TYR:HA	2:B:788:ARG:HG3	1.80	0.63
3:C:112:ASN:HB2	3:C:114:TYR:HE1	1.63	0.63
4:D:40:HIS:HB2	7:G:73:LYS:HD3	1.80	0.63
9:I:4:PHE:CD1	9:I:4:PHE:C	2.70	0.63
10:J:7:CYS:O	10:J:11:GLY:HA2	1.97	0.63
1:A:1115:SER:C	1:A:1308:THR:HG22	2.19	0.63
1:A:1260:LEU:HD12	1:A:1260:LEU:O	1.97	0.63
2:B:558:LEU:C	2:B:560:GLU:H	2.01	0.63
2:B:860:MET:HG2	2:B:861:ASP:N	2.12	0.63
2:B:1050:ILE:HD12	2:B:1050:ILE:N	2.14	0.63
7:G:28:THR:O	7:G:32:GLU:HG3	1.98	0.63
8:H:89:LEU:O	8:H:91:ASP:N	2.29	0.63
1:A:825:ILE:CG2	1:A:826:ASP:N	2.61	0.63
2:B:469:GLN:CG	2:B:470:LYS:H	2.11	0.63
2:B:810:GLU:HA	2:B:815:ARG:HH12	1.64	0.63
2:B:847:ASP:C	2:B:849:GLY:H	2.02	0.63
5:E:106:GLN:HA	5:E:130:ALA:CB	2.29	0.63
1:A:103:CYS:SG	1:A:207:ILE:HD12	2.39	0.63
1:A:1276:VAL:HG12	1:A:1277:GLU:N	2.14	0.63
2:B:593:PRO:HA	2:B:596:LEU:HB3	1.81	0.63
3:C:241:ASP:O	3:C:245:VAL:HG23	1.99	0.63
5:E:15:ALA:O	5:E:19:VAL:HG23	1.99	0.63
5:E:128:PRO:HA	5:E:129:PRO:O	1.99	0.63
1:A:767:GLN:HB2	1:A:799:PHE:HD1	1.64	0.63
1:A:1152:ILE:HD11	9:I:44:TYR:HD2	1.63	0.63
2:B:123:THR:O	2:B:125:SER:N	2.32	0.63
2:B:186:GLU:CG	10:J:62:ARG:HH22	2.05	0.63
2:B:527:THR:OG1	2:B:528:PRO:HD2	1.99	0.63
2:B:615:MET:HB3	2:B:626:ILE:HG12	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:899:ILE:HG21	2:B:949:VAL:HG21	1.80	0.63
3:C:39:ALA:HA	3:C:164:ALA:HB3	1.78	0.63
4:D:66:ARG:HD2	4:D:133:THR:HB	1.80	0.63
5:E:100:ILE:HG22	5:E:100:ILE:O	1.99	0.63
8:H:82:PRO:HG3	11:K:54:ARG:HD2	1.81	0.63
1:A:504:LEU:HD11	6:F:91:ALA:CB	2.29	0.62
1:A:913:LEU:HD12	1:A:914:GLU:H	1.62	0.62
2:B:579:ARG:HG2	2:B:579:ARG:HH11	1.64	0.62
2:B:653:VAL:CG2	2:B:689:LEU:HB3	2.28	0.62
2:B:847:ASP:OD2	3:C:167:HIS:HD2	1.82	0.62
10:J:64:ASN:ND2	10:J:65:PRO:HD3	2.14	0.62
1:A:35:ILE:HD12	1:A:241:VAL:HG21	1.81	0.62
1:A:523:ILE:HD12	1:A:622:VAL:HG21	1.82	0.62
1:A:590:ARG:HB3	1:A:605:MET:N	2.13	0.62
1:A:814:PHE:CE1	2:B:519:TRP:HA	2.34	0.62
1:A:1158:PRO:HB2	1:A:1188:GLN:HE22	1.64	0.62
2:B:878:GLN:O	2:B:934:LYS:HE2	1.99	0.62
7:G:143:ILE:CG2	7:G:144:ARG:N	2.62	0.62
8:H:84:ALA:CB	8:H:87:ARG:HD2	2.29	0.62
9:I:50:THR:HG22	9:I:51:ASN:H	1.64	0.62
12:L:61:THR:HG21	12:L:63:ARG:NE	2.14	0.62
1:A:25:GLU:OE1	1:A:25:GLU:N	2.32	0.62
1:A:474:VAL:HA	1:A:521:MET:HE2	1.81	0.62
1:A:675:THR:OG1	1:A:736:ASN:ND2	2.32	0.62
2:B:281:PRO:O	2:B:283:VAL:N	2.33	0.62
9:I:17:ARG:HG3	9:I:28:GLU:OE1	1.99	0.62
11:K:42:LEU:HD23	11:K:42:LEU:C	2.19	0.62
1:A:768:GLN:CG	1:A:816:HIS:HA	2.23	0.62
1:A:902:LEU:HD11	1:A:923:LEU:HD21	1.79	0.62
1:A:1017:LEU:HB2	5:E:206:GLY:N	2.00	0.62
1:A:1412:ALA:HA	1:A:1417:GLU:OE2	1.99	0.62
2:B:847:ASP:HB3	3:C:167:HIS:CD2	2.35	0.62
3:C:75:MET:HB3	3:C:128:ASN:HB3	1.81	0.62
7:G:114:LEU:HG	7:G:162:SER:HB3	1.81	0.62
1:A:754:SER:N	1:A:757:ASN:HD22	1.96	0.62
1:A:1340:GLY:O	1:A:1342:GLU:N	2.32	0.62
2:B:244:LEU:HD21	2:B:366:GLN:NE2	2.14	0.62
2:B:351:TYR:CE1	2:B:355:ILE:HD11	2.35	0.62
3:C:6:PRO:HB3	3:C:25:VAL:HG12	1.82	0.62
3:C:132:PRO:O	3:C:134:ILE:HG13	2.00	0.62
13:T:21:DC:H2"	13:T:22:DC:C5'	2.30	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:ILE:O	1:A:52:GLY:N	2.33	0.62
1:A:115:LEU:CD1	1:A:141:LEU:HB3	2.30	0.62
1:A:259:GLU:OE1	1:A:263:THR:HG21	1.99	0.62
1:A:427:GLN:HB2	1:A:430:TRP:CD2	2.34	0.62
1:A:1279:ILE:HG22	1:A:1279:ILE:O	1.99	0.62
1:A:1341:ILE:HG23	1:A:1342:GLU:N	2.14	0.62
2:B:1002:THR:HG21	2:B:1006:ILE:HG13	1.80	0.62
2:B:1162:ILE:HD11	2:B:1194:ILE:HD13	1.81	0.62
3:C:46:ILE:HG23	3:C:157:CYS:HB3	1.81	0.62
7:G:1:MET:SD	7:G:79:PHE:CD1	2.92	0.62
1:A:255:SER:OG	2:B:918:ILE:HG21	1.98	0.62
1:A:963:ILE:HD11	1:A:1048:ASN:HB3	1.82	0.62
1:A:1074:GLU:HB3	1:A:1075:PRO:CD	2.29	0.62
1:A:1293:SER:HB2	1:A:1299:VAL:HG23	1.82	0.62
1:A:1445:ILE:H	1:A:1445:ILE:CD1	1.99	0.62
2:B:244:LEU:HD13	2:B:247:GLY:O	2.00	0.62
2:B:1115:THR:O	2:B:1116:ARG:HB2	1.99	0.62
5:E:31:THR:CG2	5:E:34:GLU:HB2	2.29	0.62
5:E:54:GLN:O	5:E:57:MET:HB3	1.99	0.62
5:E:138:ALA:HA	5:E:141:VAL:HG23	1.82	0.62
8:H:93:TYR:HB3	8:H:144:ILE:O	2.00	0.62
13:T:10:DA:H2"	13:T:11:DA:H8	1.61	0.62
1:A:335:ARG:HA	1:A:339:ASN:HD22	1.64	0.62
1:A:463:ILE:HD11	1:A:469:ARG:HG3	1.82	0.62
1:A:606:LEU:HG	1:A:613:ILE:HD12	1.81	0.62
1:A:857:ARG:NH2	6:F:139:PRO:HG3	2.14	0.62
2:B:20:ASP:C	2:B:22:SER:H	2.01	0.62
2:B:331:LEU:HD23	2:B:353:LYS:HG2	1.81	0.62
2:B:899:ILE:CG2	2:B:949:VAL:HG21	2.29	0.62
4:D:59:ILE:O	4:D:63:LEU:HB2	2.00	0.62
6:F:103:MET:O	6:F:104:ASN:HB2	2.00	0.62
12:L:53:HIS:HB3	12:L:55:ILE:CD1	2.30	0.62
13:T:24:DG:H2'	13:T:25:DG:H8	1.65	0.62
1:A:438:ASP:OD1	1:A:462:VAL:HG23	2.00	0.62
1:A:744:LYS:O	1:A:748:MET:HG3	2.00	0.62
1:A:834:THR:HG21	1:A:1077:THR:HG23	1.81	0.62
1:A:901:LEU:HB2	1:A:926:GLN:HG2	1.80	0.62
2:B:211:VAL:CG2	2:B:483:LEU:HB2	2.29	0.62
2:B:276:ILE:HD13	2:B:280:ILE:HD11	1.82	0.62
1:A:1140:HIS:HA	1:A:1275:GLY:HA3	1.82	0.62
2:B:521:LEU:HD13	2:B:633:VAL:HB	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:100:THR:HG22	3:C:101:LEU:H	1.64	0.62
3:C:258:ILE:HD11	11:K:42:LEU:HD11	1.81	0.62
7:G:1:MET:SD	7:G:2:PHE:N	2.72	0.62
8:H:109:LYS:HD2	8:H:111:LEU:CD1	2.30	0.62
10:J:48:ARG:NE	10:J:49:MET:HE2	2.08	0.62
12:L:34:CYS:O	12:L:34:CYS:SG	2.58	0.62
1:A:335:ARG:O	1:A:339:ASN:HB2	1.99	0.61
1:A:954:TRP:HB3	1:A:955:PRO:HD2	1.82	0.61
2:B:838:SER:HB2	2:B:989:THR:O	1.99	0.61
3:C:124:LEU:O	3:C:127:ARG:HG2	2.00	0.61
11:K:7:PHE:O	11:K:11:LEU:HD23	1.99	0.61
1:A:335:ARG:HD2	2:B:1202:LEU:HD23	1.82	0.61
1:A:1160:SER:HA	1:A:1170:ILE:CD1	2.28	0.61
2:B:100:PRO:HD2	2:B:180:TYR:CE1	2.36	0.61
2:B:167:ILE:HD12	2:B:167:ILE:N	2.14	0.61
2:B:193:LYS:HZ1	12:L:32:ALA:HB1	1.65	0.61
2:B:593:PRO:HG2	2:B:617:ARG:NH2	2.15	0.61
9:I:78:CYS:O	9:I:80:SER:N	2.32	0.61
1:A:1187:GLN:HG3	1:A:1188:GLN:N	2.15	0.61
2:B:114:PRO:HG3	2:B:181:LEU:HD11	1.82	0.61
2:B:611:PRO:CG	2:B:685:LEU:HD21	2.27	0.61
2:B:1096:ARG:O	2:B:1097:HIS:CB	2.46	0.61
4:D:118:THR:OG1	4:D:121:LYS:HB2	2.00	0.61
6:F:103:MET:HE2	7:G:66:GLY:N	2.14	0.61
11:K:93:SER:O	11:K:97:LYS:HG3	2.00	0.61
1:A:93:VAL:HG23	1:A:304:MET:HE3	1.82	0.61
1:A:184:SER:HB3	1:A:199:LEU:HD23	1.83	0.61
2:B:1215:ARG:O	2:B:1216:LEU:HD23	2.00	0.61
4:D:13:ARG:O	4:D:13:ARG:HD3	1.99	0.61
1:A:40:THR:HB	1:A:41:MET:CE	2.30	0.61
1:A:65:LEU:O	1:A:71:GLN:HA	2.00	0.61
1:A:68:GLN:C	1:A:70:CYS:H	2.04	0.61
1:A:224:PHE:CE2	1:A:231:PRO:HG3	2.35	0.61
2:B:882:THR:HG22	2:B:884:ARG:CB	2.26	0.61
2:B:899:ILE:HD11	2:B:911:ILE:HA	1.81	0.61
6:F:77:ASP:O	6:F:78:GLN:HB2	2.01	0.61
6:F:85:MET:O	6:F:155:LEU:HD21	2.00	0.61
8:H:32:THR:HG22	8:H:33:GLN:N	2.15	0.61
1:A:67:CYS:O	1:A:68:GLN:HB2	2.00	0.61
1:A:744:LYS:HG2	1:A:748:MET:CE	2.31	0.61
2:B:860:MET:HG3	2:B:965:LYS:HG2	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:GLN:HG2	1:A:1418:LEU:HD13	1.83	0.61
1:A:93:VAL:HG21	1:A:301:ALA:O	2.01	0.61
1:A:1214:GLU:OE1	1:A:1214:GLU:HA	2.00	0.61
2:B:20:ASP:O	2:B:22:SER:N	2.30	0.61
2:B:25:ILE:HD11	2:B:653:VAL:C	2.20	0.61
2:B:485:ARG:NH2	2:B:782:LEU:HD11	2.16	0.61
2:B:766:ARG:HG2	2:B:766:ARG:NH1	2.15	0.61
2:B:842:ASN:HD22	2:B:845:SER:CB	2.10	0.61
3:C:50:GLU:HG2	12:L:64:LEU:HD22	1.82	0.61
3:C:112:ASN:HB2	3:C:114:TYR:CE1	2.36	0.61
7:G:30:LEU:HD13	7:G:72:VAL:HG11	1.83	0.61
8:H:24:CYS:HB2	8:H:44:VAL:HG21	1.82	0.61
8:H:81:PRO:CB	8:H:82:PRO:CD	2.77	0.61
1:A:825:ILE:HD11	2:B:512:ARG:CB	2.31	0.61
1:A:1308:THR:HG21	1:A:1310:GLY:O	2.01	0.61
2:B:169:ARG:HB3	2:B:169:ARG:HH11	1.65	0.61
2:B:604:ARG:C	2:B:606:LYS:H	2.03	0.61
2:B:980:PHE:CE2	2:B:1094:ARG:HB2	2.34	0.61
3:C:22:LEU:HD13	3:C:230:MET:HE3	1.83	0.61
1:A:332:LYS:H	1:A:337:ARG:CB	2.13	0.61
1:A:531:ILE:CD1	1:A:653:VAL:HG21	2.30	0.61
1:A:858:ASN:C	1:A:858:ASN:HD22	2.04	0.61
1:A:875:ALA:HB2	1:A:1366:ARG:HD2	1.83	0.61
1:A:1420:ASP:CB	1:A:1422:ARG:HG3	2.22	0.61
3:C:58:LEU:HD22	3:C:58:LEU:N	2.16	0.61
5:E:69:ILE:HA	5:E:72:PHE:O	2.01	0.61
7:G:145:VAL:HG12	7:G:146:LYS:N	2.15	0.61
8:H:12:VAL:HB	8:H:52:GLN:N	2.15	0.61
8:H:104:PHE:CZ	8:H:136:LYS:HA	2.36	0.61
1:A:438:ASP:OD2	1:A:461:LYS:HD2	2.00	0.61
1:A:560:ILE:CD1	8:H:79:TRP:H	2.12	0.61
1:A:726:ARG:O	1:A:729:ALA:HB3	2.00	0.61
1:A:1213:GLY:HA2	1:A:1216:ILE:HG13	1.82	0.61
7:G:49:LEU:HG	7:G:76:ALA:HA	1.82	0.61
12:L:49:LYS:O	12:L:50:ASP:HB2	1.99	0.61
1:A:30:ILE:HG23	2:B:1170:THR:CG2	2.30	0.60
1:A:1291:VAL:HG13	1:A:1292:PRO:HD2	1.83	0.60
1:A:1343:ALA:CB	5:E:150:VAL:HG22	2.30	0.60
2:B:180:TYR:HD1	2:B:180:TYR:H	1.48	0.60
2:B:190:TYR:CE1	2:B:196:PRO:HG3	2.36	0.60
2:B:244:LEU:O	2:B:249:ARG:HG2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:591:ARG:O	2:B:593:PRO:HD3	2.01	0.60
3:C:193:TYR:CD2	3:C:197:SER:HB3	2.35	0.60
5:E:173:SER:O	5:E:175:LEU:N	2.33	0.60
7:G:7:LEU:HB2	7:G:74:TYR:HE2	1.64	0.60
7:G:39:THR:HG22	7:G:41:LYS:H	1.66	0.60
8:H:40:LEU:HD22	8:H:123:MET:HE1	1.83	0.60
9:I:4:PHE:C	9:I:4:PHE:HD1	2.04	0.60
1:A:418:SER:O	1:A:420:ARG:N	2.28	0.60
1:A:709:THR:HB	1:A:712:GLU:H	1.65	0.60
1:A:885:THR:O	1:A:885:THR:HG22	2.01	0.60
1:A:1114:PRO:C	1:A:1330:ASN:HD21	2.05	0.60
1:A:1258:HIS:HB3	1:A:1259:MET:HE3	1.83	0.60
2:B:571:PRO:HG2	2:B:572:HIS:ND1	2.15	0.60
5:E:44:ALA:O	5:E:45:LYS:HB2	2.00	0.60
1:A:299:HIS:HA	1:A:302:THR:HG22	1.81	0.60
1:A:340:LEU:HD21	2:B:1199:ALA:HB3	1.83	0.60
1:A:666:ILE:HD11	2:B:1067:ARG:O	2.01	0.60
1:A:809:THR:HG23	1:A:812:GLU:OE1	2.00	0.60
1:A:996:ASN:O	1:A:998:LEU:HD12	2.02	0.60
2:B:57:TYR:CD1	2:B:57:TYR:N	2.70	0.60
2:B:193:LYS:HZ3	12:L:32:ALA:HB1	1.67	0.60
2:B:485:ARG:CZ	2:B:782:LEU:HD11	2.31	0.60
3:C:18:VAL:HG23	3:C:240:VAL:CG1	2.31	0.60
5:E:179:GLN:HB2	5:E:182:ASP:HB2	1.83	0.60
1:A:71:GLN:CG	1:A:72:GLU:N	2.64	0.60
1:A:313:GLN:O	1:A:314:ALA:C	2.40	0.60
1:A:451:HIS:CD2	1:A:1074:GLU:HG3	2.37	0.60
1:A:635:ARG:HH11	1:A:635:ARG:HA	1.65	0.60
1:A:1244:ARG:CB	1:A:1245:PRO:HA	2.14	0.60
2:B:273:LEU:HD12	2:B:280:ILE:HD12	1.83	0.60
3:C:46:ILE:CG2	3:C:157:CYS:HB3	2.31	0.60
3:C:261:ALA:HA	3:C:264:GLN:OE1	2.02	0.60
6:F:106:PRO:HB2	6:F:108:PHE:HE2	1.66	0.60
7:G:146:LYS:HB2	7:G:168:LEU:HD11	1.83	0.60
11:K:65:HIS:CD2	11:K:67:PHE:HB2	2.37	0.60
1:A:55:ASP:C	1:A:57:ARG:N	2.55	0.60
1:A:69:THR:O	1:A:71:GLN:N	2.34	0.60
1:A:523:ILE:HG23	1:A:527:THR:HB	1.83	0.60
2:B:850:LEU:HD12	2:B:851:PHE:H	1.67	0.60
5:E:42:PHE:HZ	5:E:58:MET:HE1	1.66	0.60
5:E:111:VAL:HG12	5:E:137:GLU:HG2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:103:MET:CE	7:G:66:GLY:N	2.63	0.60
11:K:47:ARG:HH11	11:K:47:ARG:CB	2.13	0.60
1:A:87:ALA:HB2	1:A:273:ASN:OD1	2.02	0.60
1:A:524:VAL:CG1	1:A:525:GLN:H	2.15	0.60
1:A:853:ASP:OD1	1:A:855:THR:HG22	2.01	0.60
1:A:925:LEU:HD13	1:A:983:ILE:HD12	1.84	0.60
1:A:1220:PHE:CE2	1:A:1263:ILE:HG23	2.36	0.60
1:A:1424:VAL:O	1:A:1428:VAL:HG23	2.00	0.60
1:A:1445:ILE:HD12	1:A:1445:ILE:N	2.09	0.60
2:B:288:ALA:HA	2:B:331:LEU:CD1	2.32	0.60
2:B:467:GLY:O	2:B:469:GLN:N	2.35	0.60
2:B:766:ARG:HG3	2:B:1022:THR:HG23	1.82	0.60
2:B:1097:HIS:N	2:B:1098:MET:HE2	2.16	0.60
3:C:102:GLN:HG2	3:C:154:LYS:HG2	1.82	0.60
3:C:107:SER:C	3:C:109:SER:H	2.03	0.60
12:L:61:THR:HG22	12:L:63:ARG:N	2.08	0.60
1:A:186:LYS:O	1:A:187:LYS:HB3	2.01	0.60
1:A:280:GLU:C	1:A:282:ASN:H	2.04	0.60
2:B:190:TYR:HD2	10:J:62:ARG:O	1.85	0.60
2:B:258:LEU:HG	2:B:258:LEU:O	2.02	0.60
2:B:393:LYS:HA	2:B:393:LYS:HE3	1.83	0.60
2:B:603:LEU:HD13	2:B:608:ASP:HB3	1.82	0.60
2:B:1000:PRO:O	2:B:1007:VAL:HG23	2.02	0.60
2:B:1186:ASP:O	4:D:17:LYS:HE2	2.01	0.60
3:C:13:ALA:O	11:K:114:LEU:HD22	2.01	0.60
9:I:7:CYS:HB2	9:I:34:TYR:CD2	2.37	0.60
1:A:105:CYS:O	1:A:114:LEU:HG	2.02	0.60
1:A:401:GLY:C	1:A:435:HIS:HD2	2.05	0.60
1:A:567:LYS:HD2	8:H:95:TYR:CG	2.36	0.60
1:A:993:LEU:CD2	1:A:1022:LEU:HD11	2.32	0.60
1:A:1101:LEU:HB2	1:A:1355:VAL:HG11	1.82	0.60
2:B:638:PHE:HA	2:B:690:VAL:CG2	2.20	0.60
2:B:642:ASP:HB3	2:B:649:LYS:HD2	1.83	0.60
2:B:882:THR:O	2:B:883:LEU:HB2	2.02	0.60
12:L:38:LEU:HD23	12:L:56:LEU:HD21	1.84	0.60
1:A:224:PHE:CD2	1:A:231:PRO:HG3	2.37	0.60
1:A:282:ASN:O	1:A:284:ALA:N	2.35	0.60
1:A:381:THR:HG23	1:A:382:PRO:HD2	1.83	0.60
1:A:542:GLU:HG3	1:A:544:ASP:OD1	2.02	0.60
1:A:590:ARG:HG3	1:A:590:ARG:NH1	2.17	0.60
1:A:918:GLU:HG3	1:A:918:GLU:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:95:ILE:CB	2:B:130:VAL:HG22	2.31	0.60
2:B:230:ALA:N	2:B:231:PRO:CD	2.64	0.60
2:B:327:ARG:O	2:B:331:LEU:HD13	2.01	0.60
2:B:641:GLU:HB2	2:B:643:ASP:OD2	2.02	0.60
2:B:882:THR:CG2	2:B:935:ARG:HA	2.32	0.60
3:C:236:GLY:O	3:C:238:ILE:N	2.35	0.60
4:D:22:GLU:H	4:D:22:GLU:CD	2.05	0.60
6:F:89:GLU:O	6:F:93:ILE:HG13	2.01	0.60
12:L:27:LEU:HD23	12:L:27:LEU:N	2.16	0.60
1:A:12:ARG:CZ	2:B:1192:TYR:HE2	2.15	0.60
1:A:262:LEU:HD21	1:A:303:TYR:CE1	2.36	0.60
1:A:1063:MET:SD	1:A:1436:ILE:HG23	2.42	0.60
1:A:1081:LEU:CD1	1:A:1098:VAL:HG23	2.32	0.60
5:E:17:ARG:HH11	5:E:17:ARG:CB	2.14	0.60
5:E:161:LYS:HD2	5:E:195:VAL:HG23	1.83	0.60
7:G:91:VAL:HG23	7:G:141:SER:O	2.02	0.60
8:H:104:PHE:CE2	8:H:136:LYS:HG2	2.37	0.60
9:I:58:VAL:O	9:I:58:VAL:HG12	1.99	0.60
1:A:93:VAL:CG2	1:A:304:MET:HE3	2.32	0.59
1:A:276:LEU:HD13	1:A:293:GLU:HA	1.83	0.59
1:A:471:ASN:OD1	1:A:472:LEU:N	2.35	0.59
1:A:1242:VAL:HG12	1:A:1243:VAL:N	2.15	0.59
2:B:365:THR:OG1	2:B:367:LEU:HG	2.02	0.59
4:D:123:LEU:HD11	4:D:150:ASN:OD1	2.02	0.59
5:E:100:ILE:CG2	5:E:105:PHE:HB2	2.31	0.59
7:G:6:ASP:HB3	7:G:73:LYS:HZ1	1.66	0.59
8:H:139:ASN:O	8:H:140:ALA:HB2	2.02	0.59
10:J:1:MET:N	10:J:56:LEU:HB2	2.17	0.59
1:A:92:HIS:CD2	1:A:304:MET:HE1	2.37	0.59
1:A:248:PRO:O	1:A:260:ASP:HB2	2.02	0.59
1:A:322:VAL:O	1:A:322:VAL:CG1	2.50	0.59
1:A:1315:GLU:O	1:A:1317:MET:N	2.35	0.59
2:B:596:LEU:O	2:B:600:LEU:HG	2.02	0.59
2:B:870:ILE:HG22	2:B:917:PRO:HG2	1.83	0.59
3:C:18:VAL:HG12	3:C:18:VAL:O	2.02	0.59
4:D:170:THR:CG2	4:D:172:LEU:HG	2.32	0.59
8:H:81:PRO:HB2	8:H:82:PRO:HD2	1.84	0.59
1:A:12:ARG:HB2	2:B:1218:THR:CG2	2.32	0.59
1:A:19:PHE:O	1:A:1416:ALA:HA	2.01	0.59
1:A:24:PRO:HB3	1:A:237:THR:HB	1.84	0.59
1:A:49:LYS:NZ	1:A:61:ILE:N	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:56:PRO:O	1:A:57:ARG:HG3	2.03	0.59
1:A:227:VAL:C	1:A:228:PHE:HD2	2.05	0.59
1:A:865:GLN:HE21	1:A:1370:LEU:HA	1.67	0.59
1:A:1149:ALA:CB	9:I:47:GLU:HA	2.33	0.59
1:A:1315:GLU:C	1:A:1317:MET:N	2.55	0.59
2:B:51:PHE:O	2:B:55:VAL:HG23	2.02	0.59
2:B:638:PHE:CB	2:B:651:LEU:HD22	2.32	0.59
5:E:55:ARG:C	5:E:57:MET:N	2.55	0.59
8:H:12:VAL:HB	8:H:52:GLN:H	1.66	0.59
1:A:55:ASP:N	1:A:56:PRO:HD3	2.16	0.59
1:A:524:VAL:CG1	1:A:525:GLN:N	2.64	0.59
1:A:1116:LEU:HD13	1:A:1329:THR:HB	1.84	0.59
2:B:446:LEU:O	2:B:447:ALA:HB3	2.03	0.59
2:B:821:GLN:HE22	2:B:850:LEU:HD12	1.66	0.59
2:B:955:THR:OG1	12:L:55:ILE:HA	2.03	0.59
3:C:36:VAL:CG2	3:C:251:LEU:HD13	2.32	0.59
4:D:40:HIS:HB2	7:G:73:LYS:NZ	2.17	0.59
4:D:71:LYS:HA	4:D:74:GLN:CG	2.32	0.59
4:D:137:ASN:ND2	4:D:137:ASN:N	2.48	0.59
5:E:180:ARG:NH2	5:E:192:ARG:HD2	2.18	0.59
7:G:138:THR:HG22	7:G:139:ILE:HG13	1.83	0.59
1:A:62:ASP:O	1:A:63:ARG:C	2.41	0.59
1:A:341:MET:CE	1:A:843:LYS:NZ	2.66	0.59
1:A:356:ASP:OD2	11:K:65:HIS:HE1	1.84	0.59
1:A:434:ARG:HG2	1:A:434:ARG:HH11	1.68	0.59
1:A:852:TYR:CE2	1:A:1060:PRO:HB2	2.37	0.59
2:B:555:ILE:HD11	2:B:587:HIS:CE1	2.38	0.59
2:B:658:ILE:HG22	2:B:662:MET:HE2	1.84	0.59
1:A:172:PRO:HG3	1:A:185:TRP:CZ2	2.38	0.59
1:A:466:SER:O	2:B:1103:ILE:HD11	2.02	0.59
1:A:645:LEU:O	1:A:649:ILE:HG13	2.02	0.59
1:A:1324:PRO:HB2	5:E:142:VAL:HG11	1.83	0.59
1:A:1373:ASP:HA	1:A:1376:THR:CG2	2.32	0.59
1:A:1402:PHE:O	1:A:1403:GLU:HB2	2.03	0.59
2:B:579:ARG:N	2:B:589:VAL:HG13	2.17	0.59
3:C:47:ASP:HA	12:L:69:ALA:HB3	1.84	0.59
3:C:88:CYS:SG	3:C:91:HIS:C	2.80	0.59
3:C:166:GLU:HB3	3:C:170:TRP:HZ3	1.67	0.59
4:D:52:LEU:HD12	4:D:182:SER:HB2	1.83	0.59
5:E:198:ILE:N	5:E:198:ILE:HD12	2.18	0.59
12:L:55:ILE:O	12:L:56:LEU:CB	2.48	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:37:PHE:N	1:A:37:PHE:CD1	2.68	0.59
1:A:233:TRP:C	1:A:235:ILE:H	2.04	0.59
1:A:1290:LYS:O	1:A:1291:VAL:HG23	2.02	0.59
1:A:1313:LEU:O	1:A:1315:GLU:N	2.35	0.59
1:A:1345:ARG:NH1	5:E:200:ARG:NH2	2.50	0.59
2:B:383:ASN:C	2:B:387:LEU:HD13	2.22	0.59
2:B:410:GLY:HA2	2:B:413:LEU:HD12	1.85	0.59
2:B:597:MET:HA	2:B:597:MET:CE	2.33	0.59
2:B:853:SER:O	2:B:854:LEU:HD23	2.02	0.59
2:B:1040:ASN:O	2:B:1042:GLY:N	2.35	0.59
3:C:137:LYS:HB2	3:C:138:GLU:OE1	2.03	0.59
8:H:118:PHE:O	8:H:120:GLY:N	2.35	0.59
11:K:18:LYS:NZ	11:K:38:GLU:HG2	2.17	0.59
1:A:445:ASN:CB	1:A:455:MET:HG2	2.32	0.59
1:A:590:ARG:O	1:A:591:PHE:HB2	2.02	0.59
1:A:825:ILE:HD11	2:B:512:ARG:CD	2.31	0.59
1:A:1164:PRO:HG2	1:A:1165:GLU:H	1.68	0.59
1:A:1377:THR:OG1	1:A:1378:GLN:N	2.36	0.59
2:B:174:LEU:HD22	2:B:202:TYR:CE1	2.37	0.59
2:B:175:ARG:HG2	2:B:175:ARG:HH11	1.67	0.59
2:B:642:ASP:HB3	2:B:649:LYS:CD	2.33	0.59
3:C:93:ASP:OD1	3:C:122:SER:HB2	2.03	0.59
3:C:165:LYS:O	11:K:6:ARG:NH1	2.36	0.59
5:E:198:ILE:HD11	5:E:212:ARG:HB2	1.85	0.59
8:H:44:VAL:O	8:H:44:VAL:HG12	2.03	0.59
9:I:102:VAL:HA	9:I:108:HIS:O	2.03	0.59
1:A:466:SER:HB2	2:B:1099:VAL:CG2	2.33	0.59
1:A:468:PHE:CZ	1:A:489:LEU:HD23	2.37	0.59
1:A:477:PRO:HG2	1:A:521:MET:CE	2.33	0.59
1:A:541:ILE:N	1:A:572:TRP:O	2.35	0.59
2:B:188:ASP:O	2:B:192:LEU:HD12	2.02	0.59
2:B:1006:ILE:HD13	10:J:44:TYR:CE2	2.37	0.59
4:D:204:ASP:O	4:D:208:GLU:HB2	2.02	0.59
11:K:102:LYS:O	11:K:106:GLU:HG3	2.03	0.59
12:L:26:THR:HG23	12:L:62:LYS:HZ1	1.66	0.59
1:A:346:ASP:OD1	2:B:1108:ARG:HA	2.02	0.59
1:A:531:ILE:HD12	1:A:653:VAL:HG21	1.83	0.59
1:A:738:LYS:NZ	3:C:194:GLU:HA	2.18	0.59
1:A:898:ARG:HD3	1:A:933:TYR:CD1	2.37	0.59
1:A:1404:GLU:CB	1:A:1408:ILE:HG13	2.33	0.59
2:B:642:ASP:CA	2:B:649:LYS:HG3	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:773:MET:CE	2:B:985:GLY:HA2	2.32	0.59
3:C:169:LYS:HZ3	12:L:69:ALA:HB3	1.67	0.59
4:D:49:ALA:HB1	4:D:178:ALA:HB2	1.84	0.59
9:I:6:PHE:HD1	9:I:11:ASN:OD1	1.86	0.59
1:A:219:PHE:CD2	1:A:231:PRO:HD2	2.37	0.58
1:A:323:LYS:HD2	1:A:323:LYS:N	2.17	0.58
1:A:848:ILE:HA	1:A:857:ARG:O	2.03	0.58
1:A:1057:VAL:CG1	1:A:1058:VAL:H	2.14	0.58
1:A:1146:VAL:HG11	1:A:1207:LEU:HD12	1.86	0.58
2:B:911:ILE:HD11	2:B:941:LEU:CD1	2.33	0.58
3:C:186:LEU:HD21	3:C:224:GLN:O	2.04	0.58
4:D:144:THR:HG21	7:G:46:LEU:HD13	1.83	0.58
11:K:23:PRO:HA	11:K:31:VAL:HG13	1.83	0.58
11:K:45:LEU:HG	11:K:94:ILE:CD1	2.32	0.58
1:A:40:THR:HB	1:A:41:MET:HE2	1.85	0.58
1:A:56:PRO:O	1:A:57:ARG:CG	2.51	0.58
1:A:233:TRP:C	1:A:235:ILE:N	2.55	0.58
1:A:345:VAL:HG21	2:B:1150:ARG:NH2	2.17	0.58
2:B:335:GLY:CA	2:B:348:ARG:HB2	2.32	0.58
2:B:582:VAL:HG22	2:B:626:ILE:CG2	2.33	0.58
2:B:839:MET:HG3	2:B:1010:LEU:HD11	1.83	0.58
2:B:1001:PHE:CZ	2:B:1073:TYR:HB2	2.38	0.58
10:J:44:TYR:CD2	10:J:44:TYR:N	2.68	0.58
12:L:30:ILE:HD11	12:L:59:ALA:HB2	1.85	0.58
1:A:41:MET:H	1:A:41:MET:HE3	1.68	0.58
1:A:845:LEU:CD2	1:A:1374:VAL:HG21	2.33	0.58
1:A:1074:GLU:HB3	1:A:1075:PRO:HD3	1.84	0.58
1:A:1107:VAL:HG12	1:A:1107:VAL:O	2.03	0.58
2:B:336:ARG:HE	2:B:348:ARG:NH1	2.00	0.58
2:B:781:PHE:HE2	2:B:793:ALA:HB1	1.69	0.58
2:B:1002:THR:HG21	2:B:1006:ILE:CD1	2.33	0.58
2:B:1178:ASN:O	2:B:1179:GLN:C	2.42	0.58
3:C:107:SER:O	3:C:109:SER:N	2.30	0.58
3:C:167:HIS:CE1	12:L:70:ARG:HA	2.38	0.58
4:D:40:HIS:CB	7:G:73:LYS:NZ	2.65	0.58
1:A:107:CYS:H	1:A:114:LEU:HD21	1.69	0.58
1:A:567:LYS:CG	1:A:568:PRO:HD3	2.34	0.58
2:B:171:PRO:HD2	2:B:457:LEU:CD1	2.33	0.58
2:B:519:TRP:HE1	2:B:635:ARG:NH2	2.02	0.58
2:B:622:LYS:HE2	9:I:59:VAL:CG2	2.31	0.58
2:B:811:TYR:N	2:B:811:TYR:CD1	2.70	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:105:GLY:HA3	3:C:148:ARG:O	2.02	0.58
8:H:23:VAL:HG22	8:H:43:ASN:HA	1.85	0.58
8:H:129:TYR:H	8:H:130:ARG:HH11	1.52	0.58
9:I:13:MET:CE	9:I:14:LEU:H	2.16	0.58
1:A:69:THR:C	1:A:71:GLN:H	2.05	0.58
1:A:450:LEU:HD13	1:A:1074:GLU:HG2	1.84	0.58
1:A:506:ALA:HB1	1:A:508:PRO:HD2	1.85	0.58
1:A:897:TYR:HD2	1:A:936:LEU:HD13	1.69	0.58
2:B:65:GLU:HG3	2:B:66:ASP:N	2.18	0.58
2:B:121:ASN:HA	2:B:207:GLY:CA	2.34	0.58
2:B:654:ARG:N	2:B:657:HIS:HD2	1.97	0.58
3:C:166:GLU:HB3	3:C:170:TRP:CZ3	2.38	0.58
3:C:238:ILE:HG22	3:C:243:VAL:HG23	1.85	0.58
14:N:4:DA:H2"	14:N:5:DC:C6	2.39	0.58
1:A:332:LYS:HG3	1:A:333:GLU:HG2	1.85	0.58
1:A:547:LEU:HD22	11:K:58:PHE:CD1	2.39	0.58
2:B:120:ARG:HE	2:B:955:THR:HG21	1.68	0.58
2:B:648:HIS:CG	2:B:649:LYS:H	2.20	0.58
2:B:1222:ARG:O	2:B:1223:ASP:HB2	2.03	0.58
3:C:3:GLU:HG3	11:K:104:ASN:OD1	2.03	0.58
3:C:80:LEU:HD11	3:C:95:CYS:C	2.24	0.58
3:C:173:ALA:O	3:C:174:ALA:CB	2.52	0.58
4:D:167:LEU:O	4:D:170:THR:OG1	2.21	0.58
10:J:1:MET:H1	10:J:57:ILE:N	2.01	0.58
10:J:23:ASN:O	10:J:25:LEU:N	2.36	0.58
11:K:50:LEU:HD11	11:K:75:ILE:CD1	2.33	0.58
1:A:115:LEU:O	1:A:122:MET:HG2	2.04	0.58
1:A:212:LYS:HG2	1:A:232:GLU:HB2	1.85	0.58
1:A:243:PRO:HB2	1:A:244:PRO:HD2	1.86	0.58
1:A:332:LYS:N	1:A:337:ARG:HB3	2.19	0.58
1:A:396:PRO:HB3	1:A:403:LYS:HA	1.84	0.58
1:A:1201:ALA:O	1:A:1203:ASN:N	2.35	0.58
2:B:115:GLN:HG2	2:B:193:LYS:CB	2.30	0.58
2:B:857:ARG:NH2	2:B:942:ARG:CZ	2.67	0.58
6:F:147:SER:OG	6:F:150:GLU:HG3	2.04	0.58
7:G:34:VAL:HG11	7:G:74:TYR:CE1	2.37	0.58
8:H:4:THR:HA	8:H:60:ALA:HB2	1.85	0.58
12:L:68:GLU:H	12:L:68:GLU:CD	2.07	0.58
1:A:20:GLY:O	1:A:21:LEU:HD23	2.04	0.58
1:A:619:LYS:HD2	1:A:750:GLY:O	2.04	0.58
2:B:980:PHE:HE1	2:B:990:ILE:HD11	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:15:LYS:HG2	3:C:15:LYS:O	2.03	0.58
3:C:174:ALA:O	3:C:175:ALA:HB2	2.04	0.58
3:C:243:VAL:O	3:C:243:VAL:HG12	2.03	0.58
4:D:130:LEU:O	4:D:132:GLN:N	2.35	0.58
1:A:152:VAL:CG1	1:A:153:PRO:HD2	2.33	0.58
1:A:353:ILE:HG21	1:A:487:MET:HG3	1.85	0.58
1:A:385:ILE:HG22	1:A:386:ASP:N	2.18	0.58
1:A:590:ARG:CG	1:A:590:ARG:HH11	2.17	0.58
1:A:596:THR:O	1:A:598:LEU:N	2.33	0.58
1:A:1227:ILE:CG2	1:A:1228:TRP:H	2.12	0.58
2:B:229:ALA:CB	2:B:231:PRO:HD2	2.33	0.58
2:B:331:LEU:CD2	2:B:353:LYS:HG2	2.33	0.58
10:J:48:ARG:HD2	10:J:48:ARG:C	2.23	0.58
13:T:11:DA:H2"	13:T:12:DG:H8	1.69	0.58
1:A:115:LEU:HG	1:A:142:CYS:HB3	1.85	0.58
1:A:447:GLN:NE2	13:T:20:DG:H4'	2.19	0.58
2:B:284:ILE:HD13	2:B:333:PHE:CD2	2.39	0.58
2:B:639:ILE:CG2	2:B:641:GLU:HG2	2.34	0.58
2:B:842:ASN:ND2	2:B:845:SER:HB3	2.14	0.58
2:B:866:TYR:HD1	2:B:870:ILE:O	1.86	0.58
2:B:1065:GLN:HB2	3:C:201:TRP:CZ3	2.39	0.58
2:B:1084:GLN:HG2	3:C:201:TRP:HZ2	1.66	0.58
3:C:100:THR:HG22	3:C:101:LEU:N	2.19	0.58
3:C:174:ALA:O	10:J:10:CYS:O	2.22	0.58
4:D:25:ALA:C	4:D:27:LEU:H	2.06	0.58
6:F:152:ILE:HG22	6:F:153:VAL:H	1.68	0.58
8:H:15:VAL:HG22	8:H:26:ILE:HD13	1.85	0.58
1:A:306:ASN:HD22	1:A:322:VAL:HG12	1.68	0.57
1:A:794:PRO:HG2	1:A:795:GLU:OE2	2.03	0.57
1:A:1377:THR:O	1:A:1379:GLY:N	2.36	0.57
2:B:801:LYS:N	10:J:52:THR:HG23	2.18	0.57
6:F:79:ARG:HG2	6:F:79:ARG:HH11	1.69	0.57
1:A:341:MET:HE3	1:A:843:LYS:HZ1	1.68	0.57
2:B:31:TRP:CE3	2:B:31:TRP:HA	2.39	0.57
2:B:133:LYS:HE3	2:B:135:ARG:HH21	1.70	0.57
2:B:181:LEU:HD23	2:B:189:LEU:HD22	1.86	0.57
2:B:351:TYR:CZ	2:B:355:ILE:HD11	2.39	0.57
2:B:508:LEU:O	2:B:509:ALA:HB2	2.03	0.57
2:B:975:GLN:O	2:B:990:ILE:HD12	2.04	0.57
4:D:153:ARG:HB3	4:D:154:PHE:CD1	2.39	0.57
5:E:99:HIS:CE1	5:E:103:LYS:HG3	2.39	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:111:VAL:CG1	5:E:137:GLU:HG2	2.34	0.57
6:F:111:LEU:HD12	6:F:111:LEU:N	2.15	0.57
8:H:100:THR:HG23	8:H:138:GLU:CA	2.33	0.57
9:I:100:PHE:N	9:I:100:PHE:HD1	2.02	0.57
1:A:477:PRO:HG2	1:A:521:MET:HE2	1.85	0.57
2:B:236:HIS:CE1	2:B:389:ALA:HA	2.39	0.57
2:B:570:VAL:HG21	2:B:573:GLN:HB3	1.85	0.57
8:H:14:GLU:O	8:H:26:ILE:HG23	2.03	0.57
8:H:81:PRO:CB	8:H:82:PRO:HD2	2.34	0.57
1:A:79:GLY:CA	1:A:243:PRO:HG3	2.34	0.57
1:A:372:LYS:HA	1:A:435:HIS:CE1	2.38	0.57
1:A:709:THR:HG22	1:A:710:LEU:N	2.19	0.57
1:A:729:ALA:HA	1:A:732:LEU:HD12	1.87	0.57
1:A:1152:ILE:CD1	9:I:44:TYR:HD2	2.17	0.57
1:A:1213:GLY:HA2	1:A:1216:ILE:CG1	2.34	0.57
1:A:1394:THR:CG2	1:A:1398:MET:SD	2.92	0.57
2:B:31:TRP:CE3	2:B:34:ILE:HD12	2.39	0.57
2:B:498:THR:O	2:B:536:VAL:HA	2.05	0.57
2:B:997:GLU:CD	2:B:997:GLU:H	2.08	0.57
8:H:127:GLY:O	8:H:128:ASN:HB2	2.04	0.57
10:J:57:ILE:HA	10:J:60:PHE:CD2	2.37	0.57
1:A:53:LEU:CD2	1:A:54:ASN:HB3	2.34	0.57
1:A:740:LEU:HD12	1:A:741:ASN:N	2.20	0.57
1:A:1187:GLN:HG3	1:A:1188:GLN:H	1.68	0.57
2:B:278:GLN:HG2	2:B:279:ASP:H	1.69	0.57
2:B:309:GLN:O	2:B:312:GLU:HB3	2.04	0.57
2:B:333:PHE:CE1	2:B:337:ARG:NH2	2.73	0.57
4:D:24:ALA:C	4:D:26:THR:N	2.58	0.57
1:A:469:ARG:NH1	1:A:469:ARG:HB3	2.19	0.57
1:A:1100:ARG:HH12	1:A:1111:MET:HE3	1.68	0.57
1:A:1149:ALA:HB2	9:I:47:GLU:HA	1.86	0.57
1:A:1284:MET:O	1:A:1285:MET:HG2	2.04	0.57
2:B:899:ILE:HD11	2:B:910:VAL:O	2.05	0.57
2:B:1200:ALA:HA	2:B:1203:LEU:HB3	1.87	0.57
6:F:111:LEU:H	6:F:111:LEU:CD1	2.13	0.57
7:G:116:PRO:HG2	7:G:119:LEU:HB2	1.86	0.57
10:J:24:LEU:HA	10:J:28:ASP:HB2	1.86	0.57
1:A:335:ARG:HH11	2:B:1202:LEU:HD23	1.68	0.57
1:A:537:ARG:HH12	8:H:122:LEU:HG	1.70	0.57
1:A:786:HIS:HE1	2:B:519:TRP:CZ2	2.22	0.57
2:B:167:ILE:HG22	2:B:453:ILE:CD1	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:589:VAL:HG12	2:B:590:HIS:H	1.69	0.57
2:B:899:ILE:CD1	2:B:911:ILE:HA	2.35	0.57
3:C:35:ARG:NH1	11:K:41:THR:OG1	2.37	0.57
3:C:58:LEU:H	3:C:58:LEU:CD2	2.18	0.57
6:F:70:LYS:C	6:F:72:LYS:H	2.07	0.57
7:G:59:GLY:HA3	7:G:70:PHE:CD2	2.39	0.57
7:G:153:GLN:O	7:G:154:VAL:C	2.42	0.57
11:K:6:ARG:O	11:K:9:LEU:HG	2.05	0.57
1:A:341:MET:HE1	2:B:1135:ARG:NH1	2.19	0.57
1:A:567:LYS:HZ3	8:H:95:TYR:CB	2.18	0.57
1:A:594:GLY:H	1:A:603:ASN:ND2	2.02	0.57
1:A:774:ARG:NH2	1:A:797:LYS:HB2	2.19	0.57
1:A:913:LEU:HD11	1:A:981:LEU:O	2.04	0.57
1:A:1103:GLU:O	1:A:1108:ALA:HB2	2.05	0.57
1:A:1373:ASP:O	1:A:1377:THR:HG23	2.05	0.57
3:C:123:ASN:CG	3:C:125:MET:H	2.08	0.57
6:F:86:THR:HG23	6:F:89:GLU:OE1	2.04	0.57
7:G:119:LEU:HD12	7:G:132:SER:HB2	1.86	0.57
8:H:125:LEU:HG	8:H:126:GLU:N	2.20	0.57
11:K:63:VAL:HG23	11:K:63:VAL:O	2.05	0.57
1:A:409:SER:O	1:A:411:ASP:N	2.38	0.57
1:A:808:LEU:HD23	1:A:813:PHE:CA	2.33	0.57
1:A:947:PHE:N	1:A:947:PHE:CD1	2.73	0.57
1:A:1011:GLN:O	1:A:1015:VAL:HG23	2.05	0.57
1:A:1258:HIS:HB3	1:A:1259:MET:CE	2.35	0.57
2:B:601:ARG:HD3	2:B:605:ARG:HH21	1.69	0.57
2:B:638:PHE:HB3	2:B:651:LEU:HD22	1.87	0.57
3:C:241:ASP:O	3:C:244:VAL:HB	2.04	0.57
5:E:17:ARG:O	5:E:21:GLU:HG3	2.04	0.57
5:E:182:ASP:O	5:E:185:ALA:HB3	2.05	0.57
9:I:69:PRO:HG2	9:I:85:PHE:CD2	2.39	0.57
10:J:1:MET:N	10:J:56:LEU:N	2.53	0.57
1:A:108:MET:HA	1:A:210:ILE:CG2	2.35	0.57
1:A:1005:GLU:HG3	1:A:1006:ILE:N	2.19	0.57
2:B:181:LEU:HD23	2:B:189:LEU:CD2	2.35	0.57
2:B:635:ARG:HB2	2:B:636:PRO:HD2	1.86	0.57
2:B:882:THR:C	2:B:884:ARG:H	2.09	0.57
4:D:51:ASN:OD1	4:D:54:GLU:HB3	2.05	0.57
5:E:144:ILE:HG13	5:E:145:THR:H	1.69	0.57
12:L:26:THR:HG22	12:L:27:LEU:N	2.20	0.57
1:A:564:ALA:O	8:H:97:MET:HA	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1121:GLU:CG	1:A:1122:PRO:HD2	2.34	0.56
2:B:299:GLU:HG2	2:B:571:PRO:HG3	1.87	0.56
2:B:594:ALA:HA	2:B:617:ARG:NH1	2.18	0.56
2:B:1146:PHE:CE1	2:B:1150:ARG:HD3	2.39	0.56
3:C:25:VAL:HG22	3:C:228:PHE:HE1	1.70	0.56
1:A:32:VAL:HG21	1:A:68:GLN:HE22	1.70	0.56
1:A:52:GLY:O	1:A:56:PRO:HG2	2.05	0.56
1:A:340:LEU:CD2	2:B:1199:ALA:HB3	2.36	0.56
1:A:899:VAL:HG13	1:A:908:LEU:HD21	1.87	0.56
2:B:615:MET:HA	2:B:625:LYS:O	2.05	0.56
2:B:980:PHE:HD2	2:B:1094:ARG:HA	1.70	0.56
3:C:2:SER:O	3:C:3:GLU:HB2	2.06	0.56
3:C:51:VAL:HB	12:L:65:VAL:HG23	1.85	0.56
3:C:242:GLN:C	3:C:244:VAL:N	2.58	0.56
6:F:103:MET:HE1	7:G:66:GLY:H	1.69	0.56
7:G:79:PHE:HZ	7:G:106:MET:HE2	1.70	0.56
10:J:2:ILE:O	10:J:53:HIS:NE2	2.38	0.56
1:A:78:PRO:HB2	2:B:1201:LYS:HE3	1.87	0.56
1:A:150:THR:HG22	1:A:150:THR:O	2.05	0.56
1:A:186:LYS:O	1:A:194:ALA:HB1	2.05	0.56
1:A:252:PHE:O	1:A:256:GLN:HB2	2.06	0.56
1:A:427:GLN:HB2	1:A:430:TRP:CD1	2.39	0.56
1:A:446:ARG:HB2	1:A:487:MET:SD	2.45	0.56
1:A:889:SER:HA	1:A:1297:GLU:N	2.21	0.56
1:A:901:LEU:HG	1:A:926:GLN:HE21	1.69	0.56
1:A:947:PHE:N	1:A:947:PHE:HD1	2.02	0.56
1:A:979:SER:OG	1:A:980:ASP:N	2.37	0.56
2:B:364:ILE:CG1	2:B:585:VAL:HG13	2.33	0.56
2:B:686:ASN:C	2:B:688:GLY:H	2.09	0.56
3:C:66:ARG:NH1	10:J:2:ILE:CG2	2.56	0.56
3:C:73:GLN:HB3	3:C:131:HIS:H	1.70	0.56
3:C:101:LEU:C	3:C:102:GLN:HG3	2.26	0.56
5:E:9:ILE:HD11	5:E:53:PRO:HD3	1.85	0.56
5:E:180:ARG:HB2	5:E:215:MET:OXT	2.04	0.56
7:G:9:LEU:HD12	7:G:10:ASN:H	1.70	0.56
7:G:85:GLU:HB3	7:G:147:ILE:HD12	1.87	0.56
8:H:64:ASN:HD22	8:H:88:SER:HB2	1.68	0.56
10:J:36:LEU:HB2	10:J:47:ARG:NH1	2.20	0.56
13:T:15:DC:H2"	13:T:16:DT:C7	2.33	0.56
1:A:22:PHE:HE2	1:A:30:ILE:HD12	1.71	0.56
1:A:90:VAL:HG12	1:A:297:GLN:NE2	2.21	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:767:GLN:OE1	1:A:799:PHE:HB2	2.04	0.56
1:A:871:ASP:OD2	1:A:873:MET:HB2	2.06	0.56
1:A:1042:PHE:CE2	1:A:1046:LEU:HD11	2.41	0.56
2:B:224:GLN:NE2	2:B:403:LYS:HD3	2.20	0.56
10:J:27:GLU:C	10:J:29:GLU:H	2.08	0.56
1:A:358:ASN:ND2	2:B:833:TYR:OH	2.39	0.56
1:A:463:ILE:HB	1:A:464:PRO:HD2	1.86	0.56
1:A:466:SER:HB2	2:B:1099:VAL:HG21	1.87	0.56
1:A:717:ASN:HA	1:A:720:ARG:HH12	1.70	0.56
1:A:818:MET:HA	2:B:514:LEU:HB3	1.88	0.56
2:B:95:ILE:CG1	2:B:130:VAL:HG22	2.36	0.56
2:B:365:THR:HG23	2:B:367:LEU:H	1.70	0.56
2:B:766:ARG:HG2	2:B:766:ARG:HH11	1.70	0.56
3:C:57:VAL:HG11	10:J:60:PHE:CB	2.31	0.56
3:C:112:ASN:CB	3:C:114:TYR:CE1	2.89	0.56
3:C:167:HIS:HA	11:K:6:ARG:HH12	1.71	0.56
5:E:171:LYS:HG2	5:E:174:GLN:OE1	2.06	0.56
6:F:138:LEU:O	6:F:140:ASP:N	2.38	0.56
7:G:48:VAL:HA	7:G:76:ALA:HB2	1.86	0.56
11:K:55:LYS:HB3	11:K:81:TYR:HD1	1.69	0.56
1:A:341:MET:CE	1:A:843:LYS:HZ1	2.18	0.56
1:A:341:MET:HE3	1:A:843:LYS:NZ	2.20	0.56
1:A:353:ILE:CD1	1:A:487:MET:HE2	2.36	0.56
1:A:860:LEU:CD1	1:A:1393:ASN:HD22	2.18	0.56
1:A:986:ILE:CD1	1:A:1032:LEU:HD11	2.36	0.56
2:B:562:GLY:HA3	2:B:590:HIS:ND1	2.20	0.56
2:B:846:ILE:HG23	2:B:974:PRO:HG2	1.87	0.56
3:C:213:PRO:HG2	3:C:214:ASN:H	1.71	0.56
4:D:50:LEU:HD11	7:G:4:ILE:HD11	1.88	0.56
4:D:130:LEU:C	4:D:132:GLN:H	2.08	0.56
7:G:14:HIS:ND1	7:G:15:PRO:HD2	2.20	0.56
1:A:41:MET:SD	1:A:42:ASP:N	2.78	0.56
1:A:90:VAL:CG1	1:A:297:GLN:HA	2.36	0.56
1:A:583:PRO:HG2	1:A:586:ILE:HG13	1.87	0.56
1:A:1259:MET:C	1:A:1261:LYS:H	2.09	0.56
2:B:370:PHE:HD2	2:B:373:ARG:HD2	1.71	0.56
2:B:652:LYS:O	2:B:689:LEU:HD22	2.05	0.56
2:B:1159:ARG:NE	2:B:1193:GLN:HE21	2.04	0.56
2:B:1180:PHE:HB3	2:B:1191:ILE:CD1	2.35	0.56
1:A:244:PRO:HG2	1:A:245:PRO:HD3	1.86	0.56
1:A:560:ILE:HD11	8:H:79:TRP:N	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:11:ARG:H	3:C:20:PHE:HA	1.69	0.56
3:C:123:ASN:HD21	3:C:125:MET:HA	1.70	0.56
4:D:27:LEU:HD22	4:D:173:HIS:ND1	2.21	0.56
4:D:118:THR:CG2	4:D:121:LYS:HD2	2.32	0.56
5:E:145:THR:HG21	5:E:187:TYR:CD2	2.41	0.56
1:A:427:GLN:HB2	1:A:430:TRP:CG	2.40	0.56
1:A:446:ARG:HB3	1:A:478:TYR:HB3	1.88	0.56
1:A:993:LEU:HD22	1:A:1046:LEU:CD2	2.36	0.56
1:A:1019:CYS:O	1:A:1022:LEU:HB3	2.05	0.56
2:B:294:ASP:C	2:B:296:GLU:H	2.09	0.56
2:B:309:GLN:CD	9:I:52:ILE:HD11	2.26	0.56
2:B:611:PRO:HB3	2:B:685:LEU:HD11	1.87	0.56
5:E:144:ILE:HG13	5:E:145:THR:N	2.20	0.56
6:F:76:LYS:HA	6:F:79:ARG:HD3	1.87	0.56
8:H:17:PRO:HB3	8:H:24:CYS:SG	2.45	0.56
1:A:901:LEU:N	1:A:926:GLN:NE2	2.43	0.56
1:A:1198:ASP:HB3	1:A:1201:ALA:CB	2.35	0.56
1:A:1220:PHE:O	1:A:1221:LYS:HB2	2.06	0.56
2:B:29:ASP:CG	2:B:658:ILE:HD13	2.25	0.56
2:B:32:ALA:O	2:B:35:SER:HB2	2.05	0.56
2:B:405:ARG:HA	2:B:631:GLY:O	2.06	0.56
2:B:555:ILE:HG22	2:B:556:THR:N	2.19	0.56
5:E:124:VAL:H	5:E:125:PRO:HD2	1.69	0.56
5:E:156:LEU:HD12	5:E:195:VAL:CB	2.33	0.56
8:H:111:LEU:HA	8:H:127:GLY:O	2.06	0.56
1:A:93:VAL:CG1	1:A:301:ALA:HB1	2.28	0.55
1:A:116:ASP:C	1:A:118:HIS:N	2.55	0.55
1:A:298:PHE:CZ	1:A:314:ALA:HB2	2.41	0.55
1:A:567:LYS:HZ2	8:H:95:TYR:N	2.04	0.55
1:A:696:GLU:OE2	1:A:702:LEU:HD21	2.06	0.55
1:A:1009:ASN:HA	1:A:1012:ARG:HH11	1.68	0.55
1:A:1120:LEU:HD11	1:A:1304:TRP:O	2.05	0.55
2:B:844:SER:O	2:B:847:ASP:HB2	2.05	0.55
8:H:102:TYR:OH	8:H:122:LEU:HD22	2.06	0.55
1:A:613:ILE:O	1:A:614:PHE:HB3	2.04	0.55
1:A:960:ILE:O	1:A:963:ILE:HG22	2.06	0.55
1:A:1107:VAL:CG2	1:A:1383:SER:HB3	2.36	0.55
2:B:510:LYS:CB	2:B:511:PRO:HD3	2.36	0.55
2:B:1192:TYR:CD2	2:B:1218:THR:HG21	2.41	0.55
3:C:42:PRO:HB3	3:C:161:LYS:HE3	1.89	0.55
3:C:66:ARG:CZ	10:J:2:ILE:HG21	2.34	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:156:ASP:HB3	4:D:159:THR:OG1	2.06	0.55
6:F:136:ARG:O	6:F:143:PHE:CB	2.52	0.55
8:H:102:TYR:CD2	8:H:102:TYR:N	2.68	0.55
9:I:100:PHE:N	9:I:100:PHE:CD1	2.72	0.55
11:K:49:GLU:HG3	11:K:94:ILE:CG1	2.36	0.55
13:T:19:8OG:H2"	13:T:19:8OG:N3	2.20	0.55
1:A:189:ARG:O	1:A:190:ALA:HB3	2.06	0.55
1:A:897:TYR:CD2	1:A:936:LEU:HD13	2.40	0.55
1:A:1267:MET:O	1:A:1271:ILE:HB	2.07	0.55
2:B:102:VAL:O	2:B:102:VAL:HG12	2.06	0.55
2:B:542:MET:HG2	2:B:747:MET:CE	2.36	0.55
2:B:616:ILE:CG1	2:B:697:GLU:HA	2.36	0.55
2:B:770:GLN:CD	2:B:983:ARG:HA	2.27	0.55
2:B:773:MET:SD	2:B:987:LYS:HG2	2.46	0.55
2:B:873:THR:O	2:B:914:LYS:HA	2.05	0.55
5:E:98:ILE:O	5:E:102:GLU:HG3	2.07	0.55
5:E:109:ILE:HG22	5:E:110:PHE:N	2.21	0.55
12:L:53:HIS:O	12:L:55:ILE:HD13	2.07	0.55
1:A:606:LEU:HB3	1:A:614:PHE:CD2	2.42	0.55
1:A:675:THR:O	1:A:679:ILE:HG13	2.07	0.55
1:A:825:ILE:CG2	1:A:826:ASP:H	2.18	0.55
2:B:785:TYR:CD1	2:B:795:ILE:HG12	2.42	0.55
5:E:23:VAL:HG13	5:E:78:LEU:CD1	2.36	0.55
5:E:78:LEU:HD23	5:E:79:TRP:N	2.21	0.55
1:A:511:ILE:HG21	1:A:634:THR:HG21	1.87	0.55
2:B:629:ASP:HB3	2:B:632:ARG:HE	1.71	0.55
3:C:73:GLN:NE2	3:C:74:SER:H	2.04	0.55
3:C:100:THR:HG22	3:C:102:GLN:HE21	1.71	0.55
9:I:95:THR:HG22	9:I:96:SER:O	2.07	0.55
12:L:38:LEU:CD1	12:L:49:LYS:HG2	2.36	0.55
1:A:144:THR:O	1:A:146:MET:HG3	2.07	0.55
1:A:845:LEU:O	1:A:846:GLU:C	2.45	0.55
1:A:1030:ARG:HG3	1:A:1034:GLU:CD	2.27	0.55
1:A:1161:THR:C	1:A:1163:ILE:H	2.08	0.55
2:B:243:ALA:CB	2:B:251:ILE:HG12	2.36	0.55
2:B:289:LEU:HD22	2:B:371:GLU:O	2.07	0.55
2:B:345:LYS:HA	2:B:348:ARG:HG2	1.88	0.55
2:B:616:ILE:CD1	2:B:625:LYS:HB2	2.36	0.55
3:C:50:GLU:HG2	3:C:50:GLU:O	2.06	0.55
5:E:167:ARG:O	5:E:168:TYR:CD2	2.60	0.55
9:I:85:PHE:CD2	9:I:85:PHE:N	2.63	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:79:GLU:HG3	11:K:80:GLY:H	1.72	0.55
1:A:108:MET:HB3	1:A:210:ILE:CD1	2.27	0.55
1:A:1057:VAL:CG1	1:A:1058:VAL:N	2.70	0.55
2:B:590:HIS:CD2	2:B:596:LEU:HD22	2.42	0.55
10:J:23:ASN:C	10:J:25:LEU:N	2.59	0.55
13:T:7:DC:H2"	13:T:8:DT:C7	2.36	0.55
13:T:18:DA:H3'	13:T:18:DA:OP1	2.06	0.55
1:A:34:LYS:HB3	1:A:36:ARG:HH21	1.72	0.55
1:A:381:THR:CG2	1:A:382:PRO:HD2	2.37	0.55
1:A:496:GLU:O	1:A:499:ALA:HB3	2.06	0.55
1:A:506:ALA:HB3	1:A:509:LEU:HD12	1.88	0.55
1:A:512:VAL:HA	1:A:519:PRO:HA	1.88	0.55
1:A:1237:ILE:CG2	1:A:1238:ILE:N	2.69	0.55
2:B:999:MET:HE2	2:B:1000:PRO:CD	2.37	0.55
3:C:212:PRO:HB3	3:C:213:PRO:HD2	1.87	0.55
4:D:40:HIS:HB2	7:G:73:LYS:CD	2.37	0.55
4:D:138:ASN:HD21	7:G:35:GLU:HB3	1.71	0.55
5:E:103:LYS:HB3	5:E:105:PHE:CE2	2.42	0.55
11:K:79:GLU:HG3	11:K:80:GLY:N	2.22	0.55
12:L:43:THR:HG22	12:L:43:THR:O	2.07	0.55
1:A:399:HIS:HB3	1:A:400:PRO:CD	2.29	0.55
1:A:470:LEU:H	1:A:470:LEU:CD2	2.18	0.55
1:A:1015:VAL:HG12	1:A:1019:CYS:SG	2.46	0.55
1:A:1130:GLN:HG3	1:A:1134:ILE:CD1	2.36	0.55
1:A:1272:THR:C	1:A:1273:LEU:HD12	2.27	0.55
1:A:1341:ILE:O	1:A:1344:GLY:N	2.40	0.55
1:A:1396:ALA:HA	1:A:1399:ARG:NH2	2.22	0.55
2:B:565:PRO:O	2:B:567:GLU:N	2.39	0.55
2:B:1159:ARG:HE	2:B:1193:GLN:HE21	1.54	0.55
3:C:175:ALA:HB2	10:J:10:CYS:CB	2.37	0.55
5:E:13:TRP:CZ3	5:E:39:LEU:HB2	2.41	0.55
5:E:117:THR:HG22	5:E:119:SER:N	2.14	0.55
6:F:108:PHE:HE1	6:F:131:PRO:HG3	1.72	0.55
7:G:17:PHE:N	7:G:17:PHE:CD2	2.74	0.55
9:I:109:ILE:HG22	9:I:109:ILE:O	2.07	0.55
1:A:267:ALA:O	1:A:271:LYS:HG3	2.06	0.55
1:A:1173:HIS:CD2	1:A:1227:ILE:HG23	2.42	0.55
2:B:217:ARG:HD2	2:B:217:ARG:C	2.27	0.55
2:B:343:ILE:O	2:B:345:LYS:N	2.39	0.55
2:B:449:ASN:O	2:B:451:LYS:N	2.40	0.55
2:B:562:GLY:O	2:B:590:HIS:ND1	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:570:VAL:CG2	2:B:573:GLN:HB3	2.37	0.55
2:B:839:MET:HG3	2:B:1010:LEU:CD1	2.37	0.55
2:B:948:ILE:CD1	12:L:67:PHE:HE2	2.20	0.55
2:B:1122:ARG:HB3	13:T:22:DC:OP1	2.06	0.55
3:C:7:GLN:HG2	11:K:104:ASN:HD22	1.72	0.55
1:A:18:GLN:NE2	1:A:228:PHE:CE1	2.75	0.54
1:A:458:HIS:CE1	1:A:507:VAL:HG21	2.43	0.54
1:A:890:ASP:H	1:A:1296:GLY:HA3	1.72	0.54
1:A:1404:GLU:HB2	1:A:1408:ILE:HG13	1.88	0.54
2:B:378:LEU:O	2:B:378:LEU:HD12	2.07	0.54
2:B:483:LEU:HD11	2:B:491:THR:HG23	1.88	0.54
2:B:515:HIS:CD2	2:B:517:THR:H	2.14	0.54
2:B:696:GLU:O	2:B:699:GLU:HB2	2.06	0.54
2:B:776:GLN:O	2:B:1095:LEU:HB3	2.07	0.54
2:B:857:ARG:HH21	2:B:942:ARG:CZ	2.20	0.54
2:B:898:LEU:HD13	2:B:952:VAL:CG1	2.36	0.54
2:B:1063:GLY:O	3:C:202:PRO:HG2	2.07	0.54
9:I:6:PHE:N	9:I:6:PHE:CD2	2.71	0.54
1:A:567:LYS:HZ3	8:H:95:TYR:HB2	1.71	0.54
2:B:405:ARG:NE	2:B:629:ASP:OD2	2.37	0.54
2:B:488:TYR:CE2	2:B:813:LYS:HB2	2.42	0.54
2:B:520:GLY:N	2:B:748:ILE:HG22	2.22	0.54
2:B:1031:LEU:HA	2:B:1055:ILE:HD13	1.90	0.54
2:B:1038:SER:O	10:J:33:GLY:HA3	2.07	0.54
9:I:106:CYS:O	9:I:107:SER:HB2	2.05	0.54
1:A:79:GLY:HA3	1:A:243:PRO:CG	2.36	0.54
1:A:279:LEU:HB3	1:A:289:ILE:HG12	1.89	0.54
1:A:548:ASN:HA	11:K:60:ALA:HB1	1.90	0.54
1:A:1028:THR:O	1:A:1032:LEU:HD12	2.07	0.54
1:A:1054:LEU:O	1:A:1057:VAL:HG23	2.07	0.54
1:A:1158:PRO:O	1:A:1159:ARG:HG2	2.08	0.54
2:B:284:ILE:HG23	2:B:324:ILE:CD1	2.36	0.54
2:B:562:GLY:HA3	2:B:590:HIS:CE1	2.42	0.54
2:B:906:SER:HA	2:B:946:ASN:HB2	1.90	0.54
2:B:953:LEU:HD23	2:B:965:LYS:O	2.07	0.54
4:D:70:PHE:O	4:D:74:GLN:HG3	2.07	0.54
5:E:52:ARG:HB3	5:E:53:PRO:CD	2.38	0.54
8:H:82:PRO:HG3	11:K:54:ARG:NH1	2.23	0.54
1:A:54:ASN:HB2	1:A:247:ARG:HH12	1.73	0.54
1:A:233:TRP:O	1:A:235:ILE:N	2.40	0.54
1:A:418:SER:C	1:A:420:ARG:H	2.10	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1389:PHE:CD1	1:A:1389:PHE:C	2.80	0.54
2:B:326:ASP:C	2:B:328:GLU:N	2.61	0.54
2:B:948:ILE:HD11	12:L:67:PHE:HE2	1.73	0.54
2:B:1039:GLY:HA2	10:J:51:LEU:HD21	1.88	0.54
2:B:1182:CYS:O	2:B:1183:LYS:O	2.24	0.54
3:C:13:ALA:O	11:K:114:LEU:HD13	2.06	0.54
3:C:148:ARG:HG2	3:C:149:LYS:H	1.71	0.54
7:G:47:CYS:O	7:G:76:ALA:HB1	2.07	0.54
8:H:11:GLN:O	8:H:28:ALA:HB1	2.08	0.54
1:A:963:ILE:HD13	1:A:1049:ILE:CG1	2.36	0.54
2:B:29:ASP:HB3	2:B:658:ILE:HD13	1.89	0.54
2:B:65:GLU:HG3	2:B:66:ASP:OD1	2.06	0.54
2:B:648:HIS:CG	2:B:649:LYS:N	2.76	0.54
2:B:837:ASP:OD2	2:B:1020:ARG:NH2	2.41	0.54
2:B:1049:ASP:C	2:B:1050:ILE:HD12	2.28	0.54
5:E:124:VAL:HA	5:E:132:ILE:CD1	2.36	0.54
5:E:129:PRO:O	5:E:130:ALA:C	2.46	0.54
9:I:35:VAL:HG12	9:I:36:GLU:H	1.71	0.54
9:I:99:LEU:C	9:I:100:PHE:HD1	2.10	0.54
1:A:254:GLU:HB2	2:B:935:ARG:NH2	2.22	0.54
1:A:663:SER:OG	1:A:664:THR:N	2.40	0.54
1:A:711:ARG:O	1:A:714:PHE:HB3	2.07	0.54
2:B:29:ASP:HB3	2:B:658:ILE:CD1	2.38	0.54
2:B:388:CYS:C	2:B:390:LEU:N	2.59	0.54
3:C:43:THR:O	3:C:77:ILE:HG13	2.08	0.54
3:C:147:LEU:N	3:C:147:LEU:HD23	2.23	0.54
11:K:27:ALA:HB1	11:K:28:PRO:HD2	1.90	0.54
1:A:61:ILE:HG22	1:A:62:ASP:H	1.73	0.54
1:A:383:TYR:N	1:A:383:TYR:CD2	2.74	0.54
1:A:630:ILE:HD11	1:A:646:PHE:CZ	2.43	0.54
1:A:896:ARG:HD3	1:A:897:TYR:CE1	2.43	0.54
1:A:1370:LEU:O	1:A:1373:ASP:HB2	2.08	0.54
7:G:49:LEU:CD2	7:G:77:VAL:HG23	2.21	0.54
7:G:88:ASP:HB3	7:G:144:ARG:CB	2.38	0.54
1:A:1151:GLU:HG2	9:I:45:ARG:CB	2.37	0.54
2:B:215:GLN:OE1	2:B:479:VAL:HG22	2.07	0.54
2:B:266:ALA:O	2:B:268:THR:HG22	2.08	0.54
3:C:41:ILE:HB	3:C:172:PRO:HG3	1.89	0.54
7:G:88:ASP:HB3	7:G:144:ARG:CA	2.36	0.54
8:H:82:PRO:O	8:H:84:ALA:N	2.38	0.54
10:J:2:ILE:HG22	10:J:3:VAL:N	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:32:GLU:CD	10:J:32:GLU:H	2.11	0.54
14:N:6:DT:H2"	14:N:7:DT:OP2	2.06	0.54
1:A:193:ASP:O	1:A:194:ALA:HB3	2.08	0.54
1:A:345:VAL:HG21	2:B:1150:ARG:HH22	1.73	0.54
1:A:488:ASN:OD1	2:B:1128:LEU:HD13	2.08	0.54
1:A:783:THR:HG21	1:A:815:PHE:CZ	2.42	0.54
1:A:1158:PRO:CB	1:A:1188:GLN:HE22	2.20	0.54
4:D:60:LYS:CE	4:D:126:ILE:HD11	2.38	0.54
6:F:70:LYS:O	6:F:72:LYS:HD2	2.08	0.54
11:K:53:ASP:OD1	11:K:55:LYS:HB2	2.07	0.54
12:L:30:ILE:HG22	12:L:31:CYS:H	1.71	0.54
15:P:3:U:H2'	15:P:4:C:C6	2.43	0.54
1:A:9:ALA:HB3	2:B:1193:GLN:HB2	1.89	0.54
1:A:24:PRO:HD3	1:A:233:TRP:CD1	2.42	0.54
1:A:41:MET:O	1:A:42:ASP:O	2.26	0.54
1:A:456:MET:HE2	1:A:507:VAL:HA	1.89	0.54
1:A:567:LYS:HG2	1:A:568:PRO:N	2.23	0.54
1:A:741:ASN:ND2	1:A:744:LYS:N	2.54	0.54
1:A:1015:VAL:O	1:A:1017:LEU:N	2.41	0.54
1:A:1104:ILE:HG21	1:A:1352:VAL:HG22	1.90	0.54
2:B:613:VAL:CG2	2:B:628:THR:HA	2.38	0.54
3:C:191:TYR:HB3	3:C:201:TRP:CD1	2.43	0.54
4:D:64:VAL:HG22	4:D:129:LEU:HD22	1.89	0.54
7:G:34:VAL:CG1	7:G:45:ILE:HG21	2.32	0.54
7:G:87:VAL:HB	7:G:103:VAL:HG11	1.90	0.54
7:G:127:PRO:HG3	7:G:139:ILE:CD1	2.38	0.54
8:H:10:PHE:O	8:H:54:SER:HA	2.08	0.54
13:T:18:DA:H1'	13:T:19:8OG:C5'	2.37	0.54
1:A:21:LEU:HD11	1:A:1414:ALA:HA	1.90	0.53
1:A:537:ARG:HD2	8:H:20:TYR:CE1	2.31	0.53
1:A:547:LEU:HB3	11:K:58:PHE:CE1	2.43	0.53
1:A:863:VAL:HG11	1:A:866:PHE:CE2	2.42	0.53
2:B:484:ASN:ND2	2:B:486:TYR:HE1	2.06	0.53
2:B:503:GLY:CA	2:B:507:LYS:HE2	2.35	0.53
2:B:510:LYS:CG	2:B:511:PRO:HD3	2.37	0.53
2:B:773:MET:HE1	2:B:985:GLY:HA2	1.90	0.53
5:E:22:MET:HG3	5:E:187:TYR:CD1	2.43	0.53
7:G:41:LYS:HD3	7:G:42:PHE:CE1	2.42	0.53
8:H:76:THR:HG23	8:H:77:ARG:HG3	1.88	0.53
11:K:49:GLU:HA	11:K:52:ASN:HD22	1.72	0.53
1:A:211:PHE:HA	1:A:214:ILE:HG13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:798:GLY:HA2	1:A:815:PHE:CD1	2.44	0.53
1:A:993:LEU:HD22	1:A:1046:LEU:HD23	1.90	0.53
2:B:67:SER:OG	2:B:68:THR:N	2.42	0.53
2:B:701:ILE:HB	2:B:739:THR:OG1	2.07	0.53
2:B:756:ILE:O	2:B:759:PRO:HD3	2.08	0.53
2:B:992:ILE:HD11	11:K:66:PRO:HB2	1.90	0.53
3:C:50:GLU:CG	12:L:64:LEU:HD22	2.39	0.53
10:J:36:LEU:HB2	10:J:47:ARG:HH12	1.72	0.53
1:A:98:LYS:HE2	1:A:224:PHE:CZ	2.42	0.53
1:A:798:GLY:HA2	1:A:815:PHE:HD1	1.73	0.53
1:A:1050:GLU:O	1:A:1053:PHE:HB3	2.08	0.53
1:A:1081:LEU:CD1	1:A:1097:GLY:HA3	2.38	0.53
1:A:1239:ARG:C	1:A:1240:CYS:SG	2.86	0.53
2:B:583:ASN:HD21	2:B:628:THR:CG2	2.21	0.53
3:C:25:VAL:HG22	3:C:228:PHE:CE1	2.43	0.53
8:H:100:THR:HG23	8:H:138:GLU:CB	2.38	0.53
10:J:3:VAL:HG21	10:J:18:TRP:CB	2.38	0.53
1:A:923:LEU:O	1:A:927:VAL:HG23	2.09	0.53
1:A:1215:ARG:HG2	1:A:1215:ARG:HH11	1.73	0.53
1:A:1423:GLY:HA3	1:A:1426:GLU:HG2	1.90	0.53
2:B:46:GLN:HG3	2:B:47:GLN:N	2.18	0.53
2:B:642:ASP:N	2:B:649:LYS:HG3	2.24	0.53
4:D:141:LEU:HD22	7:G:46:LEU:O	2.07	0.53
4:D:195:ILE:HG22	4:D:198:LEU:HG	1.89	0.53
5:E:138:ALA:HA	5:E:141:VAL:CG2	2.39	0.53
1:A:102:VAL:HB	1:A:211:PHE:HZ	1.71	0.53
1:A:317:LYS:O	1:A:318:SER:CB	2.56	0.53
1:A:475:THR:HG23	1:A:476:SER:N	2.24	0.53
1:A:567:LYS:CB	1:A:568:PRO:CD	2.87	0.53
1:A:1178:ASP:O	1:A:1179:GLU:HG3	2.09	0.53
1:A:1373:ASP:HA	1:A:1376:THR:HG22	1.90	0.53
2:B:1003:ALA:HA	3:C:178:PHE:O	2.09	0.53
2:B:1166:CYS:SG	2:B:1185:CYS:SG	3.06	0.53
3:C:133:ILE:HG21	3:C:236:GLY:HA3	1.90	0.53
11:K:108:GLU:O	11:K:112:GLN:HG2	2.08	0.53
12:L:39:SER:O	12:L:40:LEU:HB2	2.09	0.53
13:T:11:DA:H2"	13:T:12:DG:C8	2.43	0.53
1:A:125:ALA:C	1:A:127:ALA:H	2.12	0.53
1:A:286:HIS:O	1:A:288:ALA:N	2.41	0.53
1:A:322:VAL:O	1:A:322:VAL:HG13	2.08	0.53
1:A:535:THR:CG2	1:A:616:VAL:HA	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:756:ILE:O	1:A:759:ALA:HB3	2.09	0.53
1:A:1153:TYR:HB2	1:A:1192:LEU:HD23	1.91	0.53
1:A:1366:ARG:HG2	1:A:1366:ARG:HH11	1.73	0.53
2:B:549:THR:HG22	2:B:550:ASP:N	2.23	0.53
2:B:603:LEU:CD1	2:B:608:ASP:HB3	2.39	0.53
2:B:616:ILE:CG2	2:B:700:SER:OG	2.56	0.53
2:B:711:GLU:HB2	2:B:712:PRO:CD	2.38	0.53
8:H:89:LEU:C	8:H:91:ASP:N	2.62	0.53
9:I:85:PHE:N	9:I:85:PHE:HD2	2.04	0.53
10:J:57:ILE:O	10:J:60:PHE:HB2	2.09	0.53
1:A:289:ILE:O	1:A:292:ALA:N	2.31	0.53
1:A:1075:PRO:O	1:A:1079:MET:HG3	2.09	0.53
1:A:1201:ALA:C	1:A:1203:ASN:H	2.11	0.53
1:A:1220:PHE:CD1	1:A:1224:LEU:HD23	2.44	0.53
1:A:1291:VAL:HG13	1:A:1292:PRO:CD	2.39	0.53
2:B:216:GLU:HA	2:B:406:LEU:HD23	1.91	0.53
2:B:706:GLN:NE2	2:B:730:ARG:HD3	2.24	0.53
5:E:185:ALA:O	5:E:190:LEU:HB2	2.09	0.53
11:K:30:ALA:HB2	11:K:76:GLN:HG3	1.90	0.53
11:K:42:LEU:HD21	11:K:46:ILE:CD1	2.39	0.53
12:L:30:ILE:HG22	12:L:31:CYS:N	2.24	0.53
1:A:75:ASN:O	1:A:76:GLU:CB	2.57	0.53
1:A:265:LYS:CE	1:A:302:THR:HG23	2.39	0.53
1:A:286:HIS:C	1:A:288:ALA:H	2.11	0.53
1:A:456:MET:CE	1:A:507:VAL:HG13	2.39	0.53
1:A:658:LEU:HD23	1:A:659:HIS:CE1	2.44	0.53
1:A:699:ALA:HB1	9:I:114:GLN:HE21	1.74	0.53
2:B:616:ILE:HG23	2:B:700:SER:OG	2.09	0.53
3:C:236:GLY:O	3:C:237:SER:C	2.46	0.53
4:D:63:LEU:O	4:D:129:LEU:HD11	2.08	0.53
5:E:83:CYS:C	5:E:85:GLU:H	2.11	0.53
5:E:182:ASP:HB3	5:E:185:ALA:HB2	1.91	0.53
8:H:40:LEU:HD22	8:H:123:MET:CE	2.39	0.53
9:I:55:THR:HG23	9:I:86:PHE:HZ	1.73	0.53
10:J:20:SER:O	10:J:24:LEU:HG	2.08	0.53
1:A:42:ASP:OD2	1:A:45:GLN:HA	2.09	0.53
1:A:57:ARG:O	1:A:58:LEU:O	2.27	0.53
1:A:150:THR:HG23	1:A:165:GLY:O	2.09	0.53
1:A:219:PHE:CE1	1:A:230:ARG:HD3	2.44	0.53
1:A:326:ARG:HG3	1:A:327:ALA:N	2.24	0.53
1:A:537:ARG:HH22	8:H:122:LEU:CD1	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:29:ASP:OD1	2:B:658:ILE:HD13	2.09	0.53
2:B:203:PHE:N	2:B:203:PHE:CD1	2.77	0.53
2:B:687:GLU:HB3	2:B:689:LEU:HG	1.91	0.53
2:B:999:MET:HG2	2:B:1007:VAL:HG22	1.91	0.53
4:D:70:PHE:O	4:D:74:GLN:NE2	2.42	0.53
5:E:176:PRO:O	5:E:212:ARG:HA	2.09	0.53
1:A:266:LEU:HD21	1:A:303:TYR:CZ	2.44	0.53
1:A:503:GLN:C	1:A:504:LEU:HD12	2.29	0.53
1:A:600:PRO:CG	1:A:601:LYS:H	2.13	0.53
1:A:777:PHE:CD1	1:A:781:ASP:HA	2.44	0.53
1:A:1264:GLU:HG3	1:A:1265:ASN:N	2.24	0.53
1:A:1449:SER:HB2	1:A:1453:TYR:CE1	2.44	0.53
2:B:190:TYR:CE2	10:J:62:ARG:HD3	2.44	0.53
2:B:221:ASN:N	2:B:241:ARG:O	2.41	0.53
2:B:284:ILE:HG23	2:B:324:ILE:HD13	1.91	0.53
3:C:66:ARG:NH2	10:J:3:VAL:O	2.42	0.53
3:C:182:PRO:HD2	3:C:210:GLU:OE1	2.09	0.53
4:D:126:ILE:HD13	4:D:145:MET:CE	2.39	0.53
5:E:110:PHE:HE2	5:E:112:TYR:HB3	1.73	0.53
7:G:13:LEU:CD2	7:G:14:HIS:N	2.73	0.53
13:T:22:DC:H2'	13:T:23:BRU:H6	1.90	0.53
1:A:41:MET:HE3	1:A:41:MET:N	2.24	0.52
1:A:88:LYS:HE3	1:A:280:GLU:OE2	2.09	0.52
1:A:108:MET:CB	1:A:210:ILE:HD13	2.26	0.52
1:A:569:LYS:O	1:A:571:LEU:HD13	2.09	0.52
1:A:836:TYR:CZ	1:A:840:ARG:HD2	2.44	0.52
2:B:863:GLU:OE2	2:B:873:THR:HA	2.09	0.52
2:B:1165:ILE:HD13	4:D:17:LYS:HD3	1.90	0.52
3:C:89:GLU:O	3:C:90:ASP:CB	2.57	0.52
4:D:118:THR:CB	4:D:121:LYS:HB2	2.38	0.52
5:E:91:LYS:C	5:E:93:MET:H	2.13	0.52
1:A:57:ARG:HG2	1:A:57:ARG:HH11	1.74	0.52
1:A:350:ARG:HH11	1:A:350:ARG:HG3	1.73	0.52
1:A:452:LYS:HE3	2:B:1141:HIS:CE1	2.44	0.52
1:A:664:THR:HG22	1:A:665:GLY:N	2.24	0.52
2:B:259:TYR:HB2	2:B:268:THR:HG23	1.90	0.52
2:B:291:ILE:HG22	2:B:291:ILE:O	2.08	0.52
2:B:582:VAL:HB	2:B:587:HIS:HD2	1.74	0.52
2:B:990:ILE:HG22	2:B:991:GLY:N	2.24	0.52
2:B:1084:GLN:HE21	2:B:1084:GLN:H	1.57	0.52
2:B:1150:ARG:CG	2:B:1150:ARG:NH1	2.67	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1167:GLY:HA3	2:B:1216:LEU:H	1.74	0.52
3:C:152:GLU:HG2	3:C:153:LEU:H	1.72	0.52
5:E:22:MET:O	5:E:26:ARG:HB2	2.09	0.52
9:I:111:THR:CG2	9:I:112:SER:N	2.71	0.52
1:A:164:ARG:HG3	1:A:165:GLY:N	2.24	0.52
1:A:279:LEU:O	1:A:289:ILE:HD11	2.09	0.52
1:A:315:LEU:HD22	1:A:319:GLY:O	2.08	0.52
1:A:689:LYS:HE2	1:A:721:PHE:CZ	2.45	0.52
1:A:904:THR:O	1:A:904:THR:HG22	2.09	0.52
2:B:65:GLU:HG3	2:B:66:ASP:H	1.74	0.52
2:B:227:LYS:HB2	2:B:395:GLN:OE1	2.08	0.52
2:B:549:THR:HG22	2:B:550:ASP:H	1.75	0.52
2:B:601:ARG:C	2:B:603:LEU:H	2.11	0.52
2:B:723:VAL:CG1	2:B:724:ASP:H	2.11	0.52
3:C:75:MET:O	3:C:246:ARG:NH2	2.42	0.52
6:F:119:ARG:HG3	6:F:119:ARG:NH1	2.24	0.52
7:G:140:LYS:O	7:G:141:SER:C	2.47	0.52
13:T:10:DA:C2	13:T:11:DA:C4	2.97	0.52
1:A:16:GLU:HG3	2:B:1220:ARG:HA	1.91	0.52
1:A:390:GLN:O	1:A:394:ASN:N	2.42	0.52
1:A:897:TYR:N	1:A:897:TYR:CD1	2.77	0.52
2:B:188:ASP:C	2:B:192:LEU:HD12	2.30	0.52
2:B:546:SER:HA	2:B:612:GLU:OE2	2.10	0.52
2:B:559:SER:CA	2:B:563:MET:HB3	2.29	0.52
2:B:871:THR:HG22	2:B:872:GLU:N	2.24	0.52
3:C:167:HIS:ND1	3:C:169:LYS:HG2	2.25	0.52
4:D:52:LEU:HA	4:D:148:LEU:HD21	1.91	0.52
5:E:110:PHE:CE2	5:E:112:TYR:HB3	2.44	0.52
5:E:207:ARG:HB3	5:E:207:ARG:HH11	1.75	0.52
6:F:116:ASP:O	6:F:120:ILE:HG13	2.09	0.52
7:G:45:ILE:HD13	7:G:78:VAL:CG1	2.40	0.52
8:H:44:VAL:CG1	8:H:48:PRO:HA	2.40	0.52
10:J:24:LEU:HD12	10:J:39:LEU:HD11	1.90	0.52
12:L:41:SER:O	12:L:44:ASP:HB2	2.10	0.52
1:A:262:LEU:HD21	1:A:303:TYR:HE1	1.75	0.52
1:A:401:GLY:C	1:A:435:HIS:CD2	2.83	0.52
1:A:591:PHE:HA	1:A:595:THR:CG2	2.37	0.52
1:A:655:PHE:O	1:A:658:LEU:HB3	2.09	0.52
1:A:683:ILE:HD13	1:A:801:GLU:CG	2.38	0.52
1:A:884:ASP:HB3	1:A:896:ARG:HH12	1.74	0.52
1:A:899:VAL:HG13	1:A:908:LEU:CD2	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:542:MET:SD	2:B:747:MET:HE2	2.49	0.52
2:B:744:HIS:HD2	2:B:746:SER:OG	1.93	0.52
2:B:847:ASP:C	2:B:849:GLY:N	2.63	0.52
3:C:147:LEU:HD12	3:C:151:GLN:O	2.10	0.52
4:D:41:GLN:HB2	4:D:43:GLU:HG3	1.92	0.52
4:D:154:PHE:CD1	4:D:154:PHE:N	2.78	0.52
5:E:55:ARG:O	5:E:57:MET:N	2.43	0.52
5:E:153:HIS:O	5:E:154:ILE:HG13	2.09	0.52
6:F:127:GLU:O	6:F:129:LYS:HG3	2.09	0.52
7:G:99:PHE:HZ	7:G:163:ILE:HD13	1.74	0.52
9:I:82:GLU:HB3	9:I:104:LEU:CD1	2.40	0.52
1:A:157:ASP:C	1:A:159:THR:H	2.12	0.52
1:A:172:PRO:HD3	1:A:185:TRP:NE1	2.24	0.52
1:A:567:LYS:HB3	1:A:568:PRO:CD	2.37	0.52
1:A:944:ARG:NE	1:A:1298:TYR:HE1	2.07	0.52
1:A:1001:ARG:O	1:A:1002:GLY:O	2.28	0.52
3:C:33:LEU:O	3:C:34:ARG:C	2.48	0.52
3:C:235:VAL:HG12	10:J:13:VAL:HG23	1.91	0.52
4:D:54:GLU:O	4:D:58:VAL:HG23	2.10	0.52
1:A:108:MET:O	1:A:109:HIS:HB2	2.09	0.52
1:A:188:ASP:CB	1:A:191:THR:HB	2.33	0.52
1:A:196:GLU:CB	1:A:197:PRO:HD2	2.36	0.52
1:A:317:LYS:O	1:A:318:SER:HB3	2.09	0.52
1:A:898:ARG:O	1:A:1029:ARG:NH1	2.43	0.52
1:A:1036:ARG:HG2	1:A:1036:ARG:NH1	2.25	0.52
1:A:1236:LEU:C	1:A:1237:ILE:HG13	2.29	0.52
2:B:196:PRO:HG2	2:B:197:PHE:H	1.74	0.52
2:B:361:LEU:HD21	2:B:377:PHE:CD2	2.44	0.52
2:B:1095:LEU:C	2:B:1096:ARG:O	2.46	0.52
3:C:152:GLU:HG2	3:C:153:LEU:N	2.24	0.52
4:D:51:ASN:O	4:D:52:LEU:C	2.48	0.52
4:D:56:ARG:NH2	4:D:155:ARG:HA	2.25	0.52
8:H:76:THR:O	8:H:77:ARG:HB2	2.09	0.52
9:I:69:PRO:HB2	9:I:85:PHE:CE2	2.45	0.52
1:A:15:LYS:HG3	2:B:1219:ASP:HA	1.92	0.52
1:A:350:ARG:HG3	1:A:350:ARG:NH1	2.24	0.52
1:A:475:THR:CG2	1:A:476:SER:N	2.72	0.52
1:A:973:ILE:O	1:A:973:ILE:HG22	2.09	0.52
1:A:1118:VAL:O	1:A:1305:VAL:HG13	2.09	0.52
1:A:1127:ASP:HB3	1:A:1130:GLN:CB	2.39	0.52
1:A:1156:PRO:HA	1:A:1190:PRO:HB3	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1289:ARG:HD2	1:A:1303:GLU:OE2	2.09	0.52
2:B:613:VAL:HG13	2:B:627:PHE:C	2.30	0.52
3:C:125:MET:HG3	3:C:127:ARG:NH2	2.25	0.52
5:E:31:THR:HG23	5:E:34:GLU:CB	2.38	0.52
1:A:18:GLN:HB2	2:B:1215:ARG:HB2	1.91	0.52
1:A:320:ARG:NH2	15:P:3:U:O2'	2.42	0.52
1:A:531:ILE:HD11	1:A:578:LEU:HD11	1.91	0.52
1:A:645:LEU:HG	1:A:649:ILE:HD11	1.91	0.52
1:A:896:ARG:HD3	1:A:897:TYR:HE1	1.74	0.52
1:A:896:ARG:HB3	1:A:897:TYR:CD1	2.45	0.52
1:A:936:LEU:O	1:A:939:ASP:HB2	2.10	0.52
1:A:1115:SER:O	1:A:1116:LEU:HB2	2.10	0.52
2:B:205:ILE:N	2:B:205:ILE:HD12	2.25	0.52
2:B:806:THR:HB	2:B:809:MET:HG3	1.92	0.52
6:F:130:ILE:HG22	6:F:132:LEU:HG	1.91	0.52
9:I:26:LEU:HD23	9:I:37:GLU:CA	2.36	0.52
1:A:2:VAL:HG11	2:B:1157:ALA:C	2.31	0.52
1:A:396:PRO:HB3	1:A:402:ALA:O	2.09	0.52
1:A:399:HIS:CB	1:A:400:PRO:CD	2.88	0.52
1:A:537:ARG:HH22	8:H:122:LEU:HG	1.74	0.52
1:A:629:LEU:HD11	1:A:645:LEU:HD21	1.92	0.52
1:A:722:LEU:HD21	1:A:794:PRO:HB3	1.92	0.52
1:A:858:ASN:ND2	1:A:860:LEU:H	2.08	0.52
1:A:1152:ILE:HG23	1:A:1193:LEU:HD13	1.92	0.52
2:B:254:LEU:CD1	2:B:273:LEU:HD23	2.40	0.52
2:B:620:ARG:NH2	9:I:89:GLN:NE2	2.57	0.52
2:B:750:GLY:O	2:B:751:VAL:C	2.47	0.52
2:B:1084:GLN:N	2:B:1084:GLN:HE21	2.07	0.52
10:J:3:VAL:HG21	10:J:18:TRP:HB2	1.92	0.52
10:J:64:ASN:HB3	10:J:65:PRO:HD3	1.84	0.52
12:L:28:LYS:HB2	12:L:39:SER:HB2	1.91	0.52
1:A:1162:VAL:HG11	9:I:41:PRO:HG3	1.91	0.51
1:A:1173:HIS:ND1	1:A:1173:HIS:O	2.43	0.51
2:B:113:TYR:HB3	2:B:114:PRO:HD2	1.91	0.51
2:B:192:LEU:O	2:B:193:LYS:HB2	2.09	0.51
2:B:269:ILE:CG2	2:B:282:ILE:HD13	2.40	0.51
2:B:294:ASP:HB2	9:I:12:ASN:HA	1.92	0.51
2:B:521:LEU:HD13	2:B:633:VAL:CG1	2.40	0.51
2:B:770:GLN:HG2	2:B:983:ARG:O	2.09	0.51
4:D:53:SER:H	4:D:148:LEU:HD22	1.71	0.51
9:I:62:ILE:O	9:I:62:ILE:HG12	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:200:ARG:HG3	1:A:201:VAL:N	2.25	0.51
1:A:337:ARG:HD3	2:B:1132:GLU:OE1	2.09	0.51
1:A:560:ILE:HD12	8:H:79:TRP:HB3	1.92	0.51
1:A:685:GLU:OE2	1:A:686:ALA:HB2	2.11	0.51
1:A:700:ASN:HB2	9:I:98:VAL:HG21	1.92	0.51
1:A:1151:GLU:OE2	9:I:45:ARG:HD2	2.10	0.51
1:A:1154:TYR:HD1	1:A:1191:TRP:CZ3	2.28	0.51
2:B:68:THR:OG1	2:B:91:SER:CB	2.58	0.51
2:B:102:VAL:HB	2:B:110:HIS:HB3	1.92	0.51
2:B:216:GLU:HB3	2:B:500:THR:CG2	2.37	0.51
2:B:314:LEU:O	2:B:317:CYS:HB3	2.11	0.51
2:B:327:ARG:O	2:B:327:ARG:HG2	2.10	0.51
2:B:360:PHE:O	2:B:361:LEU:C	2.49	0.51
2:B:806:THR:HG22	2:B:807:ARG:N	2.24	0.51
2:B:1162:ILE:HD11	2:B:1194:ILE:CD1	2.41	0.51
3:C:18:VAL:O	3:C:20:PHE:HD2	1.93	0.51
3:C:176:ILE:HG22	3:C:177:GLU:H	1.74	0.51
5:E:124:VAL:CG1	5:E:132:ILE:HG13	2.39	0.51
7:G:137:ILE:HG21	7:G:143:ILE:HD11	1.93	0.51
1:A:10:PRO:HG2	2:B:1191:ILE:O	2.09	0.51
1:A:12:ARG:CB	2:B:1218:THR:HG22	2.38	0.51
1:A:630:ILE:HG23	1:A:631:HIS:H	1.74	0.51
1:A:672:ASP:OD2	1:A:674:PRO:HG2	2.10	0.51
1:A:942:PHE:HZ	5:E:207:ARG:HG3	1.75	0.51
1:A:1163:ILE:HG22	1:A:1165:GLU:HG2	1.91	0.51
2:B:38:PHE:CD1	2:B:811:TYR:HD2	2.29	0.51
2:B:100:PRO:HD2	2:B:180:TYR:HE1	1.73	0.51
2:B:176:SER:O	2:B:182:SER:HB3	2.10	0.51
2:B:547:VAL:HG12	2:B:612:GLU:OE2	2.10	0.51
2:B:558:LEU:O	2:B:560:GLU:N	2.38	0.51
2:B:616:ILE:HD12	2:B:616:ILE:N	2.25	0.51
4:D:51:ASN:O	4:D:52:LEU:O	2.27	0.51
4:D:63:LEU:HD12	4:D:129:LEU:HG	1.92	0.51
4:D:150:ASN:HB3	7:G:142:ARG:HH22	1.75	0.51
7:G:88:ASP:OD2	7:G:88:ASP:N	2.42	0.51
7:G:143:ILE:CG2	7:G:144:ARG:H	2.23	0.51
11:K:12:LEU:H	11:K:12:LEU:CD1	2.18	0.51
12:L:68:GLU:OE1	12:L:68:GLU:N	2.27	0.51
1:A:72:GLU:O	1:A:73:GLY:O	2.29	0.51
1:A:332:LYS:HB2	1:A:337:ARG:HH11	1.75	0.51
1:A:816:HIS:HE2	2:B:764:SER:H	1.58	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:830:LYS:HE2	1:A:1081:LEU:HB2	1.91	0.51
2:B:44:VAL:HG23	2:B:48:LEU:HD11	1.90	0.51
2:B:46:GLN:HE22	2:B:496:ARG:CB	2.24	0.51
2:B:210:LYS:HD3	2:B:482:VAL:HG12	1.93	0.51
2:B:274:PRO:HG2	2:B:359:GLU:HB3	1.92	0.51
2:B:1067:ARG:NH2	3:C:194:GLU:OE2	2.43	0.51
3:C:123:ASN:C	3:C:125:MET:H	2.12	0.51
3:C:146:LYS:C	3:C:147:LEU:HD23	2.30	0.51
3:C:166:GLU:C	11:K:6:ARG:NH1	2.64	0.51
5:E:181:ALA:O	5:E:182:ASP:C	2.49	0.51
8:H:11:GLN:HA	8:H:53:ASP:O	2.09	0.51
8:H:129:TYR:HA	8:H:131:ASN:HD21	1.75	0.51
11:K:10:PHE:N	11:K:10:PHE:CD2	2.78	0.51
1:A:35:ILE:HG22	1:A:35:ILE:O	2.11	0.51
1:A:443:LEU:HD23	1:A:501:LEU:HD21	1.90	0.51
1:A:592:ASP:N	1:A:595:THR:OG1	2.44	0.51
1:A:844:ALA:HB2	1:A:1389:PHE:CE2	2.46	0.51
1:A:889:SER:HB3	1:A:1297:GLU:CG	2.41	0.51
1:A:1039:LYS:HE3	1:A:1043:ASP:OD2	2.10	0.51
1:A:1191:TRP:CE3	1:A:1191:TRP:HA	2.44	0.51
2:B:214:ALA:HB3	2:B:497:ARG:O	2.10	0.51
2:B:283:VAL:CG2	2:B:317:CYS:O	2.59	0.51
2:B:293:PRO:O	2:B:297:ILE:HG13	2.11	0.51
2:B:376:PHE:CZ	2:B:569:TYR:HB3	2.46	0.51
2:B:547:VAL:N	2:B:612:GLU:OE2	2.41	0.51
2:B:648:HIS:CD2	2:B:649:LYS:H	2.28	0.51
4:D:7:THR:HG23	4:D:9:GLN:H	1.75	0.51
4:D:187:THR:HG22	4:D:189:ASP:H	1.75	0.51
5:E:52:ARG:CG	5:E:52:ARG:HH11	2.23	0.51
9:I:50:THR:CG2	9:I:52:ILE:HG12	2.41	0.51
10:J:1:MET:N	10:J:57:ILE:H	2.07	0.51
10:J:7:CYS:SG	10:J:49:MET:HE3	2.50	0.51
1:A:108:MET:HA	1:A:210:ILE:HG21	1.91	0.51
1:A:268:ASP:HB3	1:A:299:HIS:CE1	2.46	0.51
1:A:1166:ASP:O	1:A:1168:GLU:N	2.43	0.51
2:B:65:GLU:OE1	2:B:418:LYS:HE3	2.10	0.51
2:B:244:LEU:HD21	2:B:366:GLN:HE21	1.76	0.51
2:B:1081:LEU:O	2:B:1083:ALA:N	2.44	0.51
3:C:260:LEU:O	3:C:264:GLN:HG3	2.10	0.51
4:D:207:LEU:O	4:D:211:LEU:HB2	2.11	0.51
5:E:67:GLU:O	5:E:70:SER:HB3	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:4:THR:HA	8:H:60:ALA:CB	2.40	0.51
8:H:118:PHE:C	8:H:120:GLY:H	2.14	0.51
9:I:4:PHE:CE1	9:I:6:PHE:HE2	2.27	0.51
1:A:230:ARG:HG3	1:A:233:TRP:CZ3	2.46	0.51
1:A:265:LYS:HG3	1:A:265:LYS:O	2.11	0.51
1:A:1313:LEU:C	1:A:1315:GLU:H	2.14	0.51
2:B:128:LEU:HD12	2:B:128:LEU:N	2.25	0.51
2:B:288:ALA:O	2:B:331:LEU:HD11	2.11	0.51
2:B:875:GLU:HG3	2:B:877:PRO:HD3	1.92	0.51
3:C:77:ILE:N	3:C:129:ILE:HD11	2.26	0.51
4:D:123:LEU:HG	4:D:149:THR:HG21	1.91	0.51
11:K:68:PHE:CB	11:K:70:ARG:HH11	2.21	0.51
1:A:384:ASN:O	1:A:387:ARG:N	2.43	0.51
1:A:556:TRP:CE3	1:A:558:GLY:HA2	2.46	0.51
1:A:899:VAL:CG1	1:A:908:LEU:HD21	2.40	0.51
2:B:798:TYR:CZ	3:C:62:PHE:HE2	2.28	0.51
2:B:837:ASP:O	2:B:988:GLY:HA2	2.10	0.51
2:B:1001:PHE:CE2	3:C:34:ARG:NE	2.79	0.51
2:B:1161:HIS:NE2	2:B:1175:LEU:HD21	2.25	0.51
3:C:3:GLU:HG3	11:K:104:ASN:ND2	2.26	0.51
3:C:33:LEU:HG	3:C:37:MET:HE1	1.91	0.51
8:H:31:THR:O	8:H:31:THR:HG22	2.10	0.51
9:I:86:PHE:CE1	9:I:100:PHE:HB2	2.46	0.51
9:I:101:PHE:N	9:I:101:PHE:CD1	2.78	0.51
1:A:146:MET:HB3	1:A:171:GLN:O	2.11	0.51
1:A:666:ILE:HG23	2:B:1026:LEU:CB	2.41	0.51
3:C:215:GLU:O	3:C:216:GLY:C	2.49	0.51
4:D:202:ILE:HD11	4:D:206:GLU:HB3	1.93	0.51
7:G:1:MET:HE1	7:G:80:LYS:H	1.74	0.51
11:K:10:PHE:HA	11:K:37:LYS:HB3	1.92	0.51
1:A:180:LYS:HZ2	1:A:294:SER:HB3	1.76	0.51
1:A:817:ALA:O	1:A:820:GLY:N	2.44	0.51
1:A:1167:GLU:O	1:A:1170:ILE:HG13	2.10	0.51
1:A:1215:ARG:HG2	1:A:1215:ARG:NH1	2.25	0.51
1:A:1335:ILE:HG23	1:A:1339:LEU:HD12	1.93	0.51
2:B:326:ASP:O	2:B:328:GLU:N	2.43	0.51
2:B:1106:ARG:HD3	2:B:1127:GLY:CA	2.41	0.51
5:E:117:THR:HB	5:E:120:ALA:HB2	1.93	0.51
9:I:78:CYS:SG	9:I:105:SER:HB2	2.51	0.51
1:A:440:ASP:O	1:A:442:VAL:HG22	2.11	0.50
1:A:699:ALA:CB	9:I:114:GLN:HE21	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:719:VAL:O	1:A:720:ARG:C	2.48	0.50
2:B:63:ILE:HD12	2:B:421:PHE:CE2	2.46	0.50
2:B:613:VAL:HG13	2:B:628:THR:HA	1.93	0.50
2:B:944:THR:HG21	2:B:1122:ARG:HH21	1.68	0.50
3:C:107:SER:C	3:C:109:SER:N	2.65	0.50
4:D:53:SER:CB	4:D:152:SER:HB2	2.41	0.50
5:E:149:LEU:N	5:E:149:LEU:HD23	2.26	0.50
8:H:84:ALA:HA	8:H:87:ARG:CG	2.41	0.50
8:H:89:LEU:CB	8:H:91:ASP:OD1	2.59	0.50
8:H:101:ALA:HA	8:H:116:TYR:HA	1.92	0.50
9:I:13:MET:HE3	9:I:14:LEU:H	1.75	0.50
12:L:24:THR:O	12:L:25:ALA:HB3	2.11	0.50
1:A:35:ILE:CD1	1:A:241:VAL:HG21	2.41	0.50
1:A:149:GLU:HB2	1:A:164:ARG:HH21	1.76	0.50
1:A:152:VAL:HG13	1:A:153:PRO:HD2	1.92	0.50
1:A:170:THR:HG22	1:A:171:GLN:N	2.25	0.50
1:A:472:LEU:O	1:A:475:THR:CB	2.57	0.50
1:A:1273:LEU:HD12	1:A:1273:LEU:N	2.25	0.50
2:B:185:THR:O	2:B:186:GLU:C	2.49	0.50
2:B:778:MET:CE	2:B:853:SER:HB3	2.41	0.50
2:B:1034:VAL:C	2:B:1036:ALA:H	2.13	0.50
5:E:128:PRO:HA	5:E:129:PRO:C	2.31	0.50
6:F:70:LYS:O	6:F:72:LYS:N	2.35	0.50
15:P:4:C:H2'	15:P:5:C:C6	2.46	0.50
1:A:149:GLU:HB2	1:A:164:ARG:NH2	2.27	0.50
1:A:225:ASN:ND2	1:A:228:PHE:N	2.53	0.50
1:A:560:ILE:CG1	8:H:79:TRP:H	2.24	0.50
1:A:698:GLN:NE2	9:I:99:LEU:HD11	2.26	0.50
1:A:803:SER:OG	1:A:806:ARG:HG3	2.12	0.50
1:A:1118:VAL:HG12	1:A:1327:ILE:HG13	1.92	0.50
2:B:60:GLN:NE2	2:B:94:LYS:HA	2.26	0.50
2:B:542:MET:HG2	2:B:747:MET:HE3	1.94	0.50
2:B:597:MET:HE3	2:B:600:LEU:HD12	1.93	0.50
3:C:100:THR:CG2	3:C:102:GLN:NE2	2.75	0.50
4:D:185:CYS:O	4:D:211:LEU:HD22	2.10	0.50
8:H:39:THR:O	8:H:123:MET:HG3	2.11	0.50
9:I:8:ARG:HG3	9:I:34:TYR:CE1	2.45	0.50
10:J:1:MET:H1	10:J:56:LEU:HB2	1.75	0.50
1:A:269:ILE:CG1	1:A:299:HIS:HB3	2.35	0.50
1:A:310:GLY:C	1:A:312:PRO:HD2	2.31	0.50
1:A:919:ILE:HG21	1:A:983:ILE:CD1	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1070:GLN:O	1:A:1074:GLU:HB2	2.11	0.50
1:A:1120:LEU:O	1:A:1323:ASP:HB2	2.11	0.50
2:B:340:ALA:CB	2:B:343:ILE:HG12	2.24	0.50
2:B:703:ILE:HG23	2:B:741:CYS:HA	1.92	0.50
2:B:827:ILE:O	2:B:1085:ILE:HG23	2.11	0.50
2:B:880:THR:CB	2:B:934:LYS:HD3	2.38	0.50
4:D:19:GLU:O	4:D:20:GLU:C	2.50	0.50
4:D:24:ALA:O	4:D:26:THR:N	2.44	0.50
8:H:81:PRO:HB2	8:H:82:PRO:HD3	1.91	0.50
9:I:111:THR:HG21	9:I:113:ASP:HB2	1.93	0.50
1:A:326:ARG:HH22	1:A:1407:GLU:HG2	1.76	0.50
1:A:802:ASN:ND2	2:B:728:ARG:HB2	2.27	0.50
1:A:901:LEU:HD22	1:A:919:ILE:HG22	1.92	0.50
1:A:1156:PRO:HA	1:A:1190:PRO:CB	2.42	0.50
2:B:313:MET:CE	2:B:390:LEU:HD11	2.42	0.50
2:B:358:LYS:HA	2:B:366:GLN:HB3	1.92	0.50
2:B:521:LEU:HD13	2:B:633:VAL:CB	2.42	0.50
4:D:26:THR:O	4:D:26:THR:HG22	2.12	0.50
4:D:67:ARG:CA	4:D:133:THR:HG21	2.41	0.50
4:D:185:CYS:HB2	4:D:211:LEU:HD21	1.92	0.50
4:D:191:ALA:CB	4:D:207:LEU:HD21	2.42	0.50
4:D:206:GLU:O	4:D:210:ILE:HG13	2.11	0.50
6:F:73:ALA:HB1	6:F:143:PHE:H	1.76	0.50
7:G:4:ILE:HA	7:G:76:ALA:O	2.12	0.50
8:H:63:LEU:HD13	8:H:64:ASN:H	1.77	0.50
11:K:31:VAL:CG1	11:K:32:VAL:H	2.18	0.50
11:K:49:GLU:HG3	11:K:94:ILE:HG12	1.93	0.50
12:L:47:ARG:NH2	12:L:54:ARG:HE	2.09	0.50
1:A:404:TYR:HB2	1:A:433:GLU:HB2	1.94	0.50
1:A:734:GLU:C	1:A:736:ASN:H	2.14	0.50
1:A:775:ILE:HD12	1:A:818:MET:SD	2.52	0.50
1:A:863:VAL:HG11	1:A:866:PHE:CD2	2.46	0.50
1:A:886:ILE:CG2	1:A:887:GLY:N	2.74	0.50
2:B:179:CYS:SG	2:B:181:LEU:HB2	2.51	0.50
2:B:461:LEU:H	2:B:461:LEU:CD1	2.24	0.50
2:B:579:ARG:CA	2:B:589:VAL:HG22	2.40	0.50
2:B:847:ASP:HB3	3:C:167:HIS:NE2	2.26	0.50
11:K:53:ASP:HB3	11:K:56:VAL:CG2	2.40	0.50
1:A:42:ASP:C	1:A:44:THR:N	2.65	0.50
1:A:102:VAL:HG11	1:A:211:PHE:CE2	2.47	0.50
1:A:113:LEU:O	1:A:114:LEU:HD23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:LEU:C	1:A:114:LEU:HD23	2.32	0.50
1:A:343:LYS:HD3	2:B:1155:SER:OG	2.11	0.50
1:A:567:LYS:CD	1:A:568:PRO:HD3	2.41	0.50
1:A:767:GLN:HA	1:A:799:PHE:HA	1.93	0.50
1:A:896:ARG:NH2	1:A:1030:ARG:HH21	2.10	0.50
1:A:1011:GLN:NE2	1:A:1015:VAL:CG2	2.75	0.50
1:A:1067:LEU:O	1:A:1068:ALA:C	2.48	0.50
1:A:1155:ASP:OD2	1:A:1161:THR:HG23	2.11	0.50
1:A:1209:MET:CE	1:A:1236:LEU:HB3	2.42	0.50
2:B:842:ASN:ND2	2:B:845:SER:H	2.10	0.50
5:E:124:VAL:HG13	5:E:132:ILE:CB	2.42	0.50
5:E:153:HIS:HB3	5:E:196:VAL:HG11	1.94	0.50
6:F:117:PRO:C	6:F:119:ARG:H	2.15	0.50
1:A:41:MET:CB	1:A:50:ILE:H	2.25	0.50
1:A:95:PHE:CD1	1:A:234:MET:HG2	2.47	0.50
1:A:344:ARG:HA	2:B:1129:ARG:HA	1.93	0.50
1:A:551:TYR:CD2	11:K:62:LYS:HD3	2.47	0.50
1:A:555:ASP:O	1:A:556:TRP:C	2.50	0.50
1:A:568:PRO:HD2	1:A:569:LYS:H	1.76	0.50
1:A:590:ARG:HG3	1:A:590:ARG:HH11	1.77	0.50
1:A:598:LEU:O	1:A:599:SER:C	2.50	0.50
1:A:771:GLU:O	1:A:773:LYS:HG3	2.11	0.50
1:A:1093:LYS:O	1:A:1094:VAL:HG13	2.12	0.50
2:B:67:SER:O	2:B:68:THR:O	2.30	0.50
2:B:370:PHE:HE2	2:B:373:ARG:HH11	1.57	0.50
2:B:641:GLU:C	2:B:643:ASP:H	2.14	0.50
2:B:1163:CYS:SG	2:B:1165:ILE:HB	2.51	0.50
4:D:202:ILE:HG23	4:D:207:LEU:HB2	1.93	0.50
5:E:94:LYS:HG3	5:E:98:ILE:CD1	2.41	0.50
6:F:74:ILE:HD12	6:F:144:GLU:HG3	1.93	0.50
7:G:18:PHE:HA	7:G:22:MET:CE	2.42	0.50
8:H:83:GLN:C	8:H:85:GLY:H	2.15	0.50
1:A:374:LEU:O	1:A:436:ILE:HG12	2.11	0.50
1:A:590:ARG:HB2	1:A:605:MET:HB3	1.94	0.50
2:B:96:TYR:N	2:B:129:PHE:O	2.43	0.50
2:B:357:GLN:O	2:B:366:GLN:HA	2.12	0.50
2:B:1189:ILE:HD11	7:G:39:THR:HG23	1.93	0.50
3:C:182:PRO:HG3	3:C:206:ASN:O	2.12	0.50
4:D:168:LYS:HG3	4:D:177:VAL:CG1	2.35	0.50
5:E:45:LYS:HB3	5:E:46:TYR:CD1	2.47	0.50
8:H:100:THR:O	8:H:117:SER:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:16:ASP:OD1	10:J:17:LYS:HD2	2.11	0.50
11:K:49:GLU:OE2	11:K:97:LYS:HE3	2.12	0.50
1:A:63:ARG:HG3	1:A:63:ARG:O	2.12	0.49
1:A:335:ARG:HD3	2:B:1202:LEU:HD23	1.93	0.49
1:A:700:ASN:ND2	9:I:115:LYS:HD2	2.27	0.49
1:A:781:ASP:O	1:A:790:ASP:N	2.46	0.49
1:A:1299:VAL:HG12	1:A:1300:LYS:N	2.27	0.49
2:B:284:ILE:HG12	2:B:324:ILE:HD12	1.94	0.49
2:B:526:GLU:HG2	2:B:526:GLU:O	2.11	0.49
2:B:563:MET:HE1	2:B:580:VAL:HB	1.94	0.49
2:B:758:PHE:CZ	2:B:1044:ALA:HA	2.47	0.49
3:C:8:VAL:HG12	3:C:9:LYS:N	2.25	0.49
5:E:134:THR:C	5:E:135:PHE:HD1	2.15	0.49
8:H:15:VAL:HG13	8:H:26:ILE:CG1	2.37	0.49
8:H:100:THR:HG22	8:H:101:ALA:H	1.76	0.49
8:H:102:TYR:CE2	8:H:115:TYR:HB3	2.47	0.49
1:A:32:VAL:O	1:A:57:ARG:CD	2.61	0.49
1:A:280:GLU:C	1:A:282:ASN:N	2.65	0.49
1:A:393:ARG:CB	1:A:393:ARG:HH11	2.26	0.49
1:A:596:THR:O	1:A:597:LEU:HB2	2.12	0.49
1:A:676:MET:O	1:A:679:ILE:HB	2.11	0.49
2:B:39:ARG:NH2	2:B:665:GLU:HG2	2.27	0.49
2:B:165:VAL:HG12	2:B:166:PHE:N	2.27	0.49
2:B:360:PHE:HD2	2:B:374:LYS:HD3	1.77	0.49
2:B:604:ARG:HG3	2:B:611:PRO:HA	1.93	0.49
2:B:661:LEU:HG	2:B:679:TYR:CD2	2.47	0.49
2:B:1084:GLN:OE1	3:C:189:THR:CG2	2.60	0.49
7:G:74:TYR:H	7:G:74:TYR:HD2	1.59	0.49
9:I:50:THR:HG22	9:I:52:ILE:H	1.77	0.49
1:A:208:LEU:HD23	1:A:209:ASN:N	2.27	0.49
1:A:243:PRO:CB	1:A:244:PRO:HD2	2.40	0.49
1:A:427:GLN:O	1:A:430:TRP:HB2	2.12	0.49
1:A:492:PRO:O	1:A:493:GLN:NE2	2.45	0.49
1:A:523:ILE:HD11	1:A:649:ILE:HB	1.93	0.49
1:A:546:VAL:HG13	1:A:577:ILE:HG21	1.93	0.49
1:A:590:ARG:HD3	1:A:592:ASP:OD2	2.12	0.49
1:A:666:ILE:HG23	2:B:1026:LEU:HB2	1.94	0.49
1:A:865:GLN:NE2	1:A:1370:LEU:HA	2.28	0.49
1:A:944:ARG:CZ	1:A:1298:TYR:HE1	2.25	0.49
1:A:1265:ASN:O	1:A:1266:THR:C	2.51	0.49
1:A:1341:ILE:CG2	1:A:1342:GLU:N	2.75	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:213:ILE:HD11	2:B:497:ARG:H	1.77	0.49
2:B:244:LEU:HD11	2:B:366:GLN:NE2	2.21	0.49
2:B:313:MET:HE2	2:B:390:LEU:HD11	1.93	0.49
2:B:377:PHE:O	2:B:380:TYR:N	2.45	0.49
2:B:707:PRO:HG2	2:B:708:GLU:H	1.77	0.49
2:B:857:ARG:NH2	2:B:942:ARG:NH2	2.60	0.49
2:B:1001:PHE:CD2	3:C:34:ARG:NH2	2.80	0.49
2:B:1002:THR:CG2	2:B:1006:ILE:CG1	2.80	0.49
2:B:1077:THR:HG22	11:K:44:ASN:ND2	2.26	0.49
3:C:258:ILE:O	3:C:262:LEU:HG	2.11	0.49
4:D:29:LEU:HD22	7:G:82:PHE:CE2	2.47	0.49
5:E:186:LEU:N	5:E:186:LEU:HD23	2.27	0.49
7:G:23:LYS:HG3	7:G:56:ILE:HD12	1.95	0.49
1:A:100:LYS:O	1:A:104:GLU:HG3	2.13	0.49
1:A:331:GLY:O	1:A:332:LYS:O	2.31	0.49
1:A:464:PRO:HG2	1:A:465:TYR:HD1	1.77	0.49
1:A:524:VAL:HG12	1:A:525:GLN:CG	2.41	0.49
1:A:567:LYS:CD	8:H:95:TYR:HA	2.42	0.49
1:A:666:ILE:HD11	2:B:1086:PHE:HE1	1.77	0.49
1:A:683:ILE:HG21	1:A:801:GLU:CD	2.32	0.49
1:A:971:PHE:O	1:A:973:ILE:N	2.45	0.49
1:A:1161:THR:C	1:A:1163:ILE:N	2.65	0.49
1:A:1443:VAL:CG1	6:F:132:LEU:HD13	2.42	0.49
2:B:455:SER:O	2:B:456:GLY:C	2.49	0.49
2:B:604:ARG:C	2:B:606:LYS:N	2.64	0.49
2:B:766:ARG:HG3	2:B:1022:THR:CG2	2.42	0.49
2:B:801:LYS:O	10:J:52:THR:CG2	2.59	0.49
2:B:1020:ARG:HH11	2:B:1020:ARG:HG3	1.76	0.49
3:C:58:LEU:N	3:C:58:LEU:CD2	2.73	0.49
5:E:73:PRO:HB2	5:E:74:ASP:OD1	2.11	0.49
5:E:100:ILE:HG23	5:E:105:PHE:CD1	2.47	0.49
6:F:99:LEU:O	6:F:99:LEU:HD12	2.13	0.49
8:H:105:GLU:O	8:H:112:ILE:HG23	2.13	0.49
9:I:55:THR:HG22	9:I:58:VAL:HG21	1.94	0.49
12:L:36:SER:O	12:L:37:LYS:C	2.51	0.49
15:P:6:A:H2'	15:P:7:G:C8	2.46	0.49
1:A:159:THR:O	1:A:159:THR:HG22	2.12	0.49
1:A:174:ILE:HG22	1:A:175:ARG:H	1.76	0.49
1:A:189:ARG:O	1:A:190:ALA:CB	2.60	0.49
1:A:359:LEU:O	1:A:471:ASN:ND2	2.45	0.49
1:A:964:ILE:O	1:A:967:ALA:HB3	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1124:HIS:ND1	1:A:1124:HIS:N	2.60	0.49
1:A:1391:ARG:HG3	1:A:1392:SER:N	2.26	0.49
2:B:100:PRO:CG	2:B:180:TYR:HE1	2.25	0.49
2:B:278:GLN:CG	2:B:279:ASP:H	2.25	0.49
2:B:461:LEU:N	2:B:461:LEU:HD12	2.27	0.49
2:B:583:ASN:ND2	2:B:628:THR:HG22	2.28	0.49
3:C:132:PRO:O	3:C:133:ILE:C	2.49	0.49
8:H:89:LEU:HB3	8:H:91:ASP:OD1	2.13	0.49
12:L:47:ARG:HH11	12:L:47:ARG:HG3	1.78	0.49
1:A:202:LEU:HA	1:A:206:GLU:OE1	2.13	0.49
1:A:311:GLN:HB2	1:A:312:PRO:HD3	1.95	0.49
1:A:489:LEU:C	1:A:489:LEU:HD12	2.32	0.49
1:A:524:VAL:HG12	1:A:525:GLN:HG3	1.94	0.49
1:A:1356:ILE:HD12	1:A:1368:MET:SD	2.53	0.49
1:A:1430:LEU:HB3	1:A:1432:GLN:HG3	1.95	0.49
2:B:36:ALA:HA	2:B:39:ARG:HD2	1.94	0.49
2:B:901:PRO:O	2:B:949:VAL:HB	2.12	0.49
4:D:195:ILE:HG22	4:D:195:ILE:O	2.12	0.49
5:E:178:ILE:CG2	5:E:212:ARG:HB3	2.43	0.49
5:E:197:LYS:CE	5:E:199:ILE:HD11	2.35	0.49
1:A:39:GLU:OE1	1:A:50:ILE:HD12	2.13	0.49
1:A:262:LEU:CD2	1:A:303:TYR:HE1	2.25	0.49
1:A:311:GLN:O	1:A:312:PRO:C	2.50	0.49
1:A:332:LYS:O	1:A:333:GLU:CB	2.60	0.49
1:A:537:ARG:NH1	8:H:120:GLY:O	2.46	0.49
1:A:600:PRO:C	1:A:602:ASP:H	2.16	0.49
1:A:745:GLN:N	1:A:748:MET:HE2	2.27	0.49
1:A:1280:GLU:O	1:A:1309:ASP:HB3	2.12	0.49
2:B:44:VAL:O	2:B:45:SER:C	2.51	0.49
2:B:56:ASP:HB2	2:B:57:TYR:HD1	1.77	0.49
2:B:258:LEU:O	2:B:258:LEU:CG	2.60	0.49
2:B:510:LYS:HB2	2:B:511:PRO:HD3	1.94	0.49
2:B:582:VAL:HB	2:B:587:HIS:CD2	2.47	0.49
2:B:616:ILE:HD13	2:B:625:LYS:HB2	1.95	0.49
4:D:40:HIS:CB	7:G:73:LYS:HZ2	2.26	0.49
4:D:203:SER:OG	4:D:206:GLU:HB2	2.13	0.49
8:H:118:PHE:CZ	8:H:142:LEU:HD22	2.48	0.49
1:A:390:GLN:O	1:A:394:ASN:CB	2.53	0.49
1:A:567:LYS:CG	1:A:568:PRO:CD	2.91	0.49
1:A:841:LEU:HD21	1:A:1371:LEU:HD22	1.95	0.49
1:A:1100:ARG:HH12	1:A:1111:MET:CE	2.25	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1344:GLY:O	1:A:1345:ARG:C	2.50	0.49
2:B:23:ALA:N	2:B:654:ARG:HB3	2.25	0.49
2:B:180:TYR:CD1	2:B:180:TYR:N	2.80	0.49
2:B:734:HIS:O	2:B:735:ALA:HB3	2.13	0.49
2:B:737:THR:CG2	9:I:66:PRO:HA	2.42	0.49
2:B:778:MET:HE2	2:B:1094:ARG:CG	2.43	0.49
2:B:864:LYS:HD2	2:B:872:GLU:OE2	2.13	0.49
2:B:916:THR:HB	2:B:935:ARG:CG	2.43	0.49
3:C:44:LEU:HB2	3:C:77:ILE:HD11	1.94	0.49
3:C:82:TYR:CE1	3:C:161:LYS:HG2	2.47	0.49
5:E:16:PHE:O	5:E:19:VAL:N	2.46	0.49
8:H:101:ALA:HB2	8:H:116:TYR:CZ	2.48	0.49
9:I:44:TYR:CD1	9:I:45:ARG:N	2.80	0.49
1:A:9:ALA:CB	2:B:1193:GLN:HB2	2.43	0.49
1:A:32:VAL:O	1:A:57:ARG:HD3	2.13	0.49
1:A:547:LEU:HD22	11:K:58:PHE:HE1	1.73	0.49
1:A:899:VAL:HG22	1:A:1029:ARG:HG2	1.94	0.49
1:A:1226:VAL:HG22	1:A:1240:CYS:HB3	1.95	0.49
1:A:1316:VAL:O	1:A:1316:VAL:HG12	2.13	0.49
2:B:125:SER:HB3	2:B:171:PRO:HA	1.95	0.49
2:B:311:LEU:O	2:B:312:GLU:C	2.51	0.49
2:B:401:PHE:HD2	2:B:521:LEU:HD12	1.76	0.49
2:B:821:GLN:NE2	2:B:851:PHE:HA	2.28	0.49
2:B:1060:ARG:HA	2:B:1060:ARG:HD2	1.53	0.49
3:C:98:VAL:O	3:C:99:LEU:HD23	2.13	0.49
3:C:148:ARG:HG2	3:C:149:LYS:N	2.28	0.49
4:D:40:HIS:HB2	7:G:73:LYS:CE	2.43	0.49
6:F:82:THR:HG22	6:F:84:TYR:N	2.23	0.49
11:K:18:LYS:HZ3	11:K:38:GLU:HG2	1.76	0.49
1:A:86:LEU:HD13	1:A:90:VAL:HG23	1.95	0.49
1:A:187:LYS:O	1:A:188:ASP:HB2	2.13	0.49
1:A:288:ALA:HA	1:A:291:GLU:OE2	2.12	0.49
1:A:364:VAL:O	1:A:364:VAL:HG13	2.12	0.49
1:A:590:ARG:NH1	1:A:590:ARG:CG	2.74	0.49
1:A:591:PHE:HA	1:A:595:THR:CB	2.43	0.49
1:A:753:GLY:HA2	1:A:757:ASN:ND2	2.28	0.49
1:A:1074:GLU:C	1:A:1076:ALA:N	2.66	0.49
1:A:1451:VAL:C	1:A:1453:TYR:H	2.15	0.49
2:B:40:GLU:OE1	2:B:682:SER:HB2	2.13	0.49
2:B:171:PRO:HD2	2:B:457:LEU:HD13	1.94	0.49
2:B:172:ILE:HG22	2:B:173:MET:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:190:TYR:CE2	10:J:62:ARG:HB3	2.48	0.49
2:B:273:LEU:HD12	2:B:276:ILE:HD12	1.93	0.49
2:B:273:LEU:CB	2:B:276:ILE:HD12	2.35	0.49
2:B:873:THR:CG2	2:B:874:PHE:N	2.75	0.49
3:C:41:ILE:CG2	3:C:172:PRO:HG3	2.43	0.49
7:G:88:ASP:CB	7:G:144:ARG:HA	2.39	0.49
8:H:118:PHE:N	8:H:118:PHE:CD1	2.81	0.49
11:K:55:LYS:HB2	11:K:81:TYR:HE1	1.77	0.49
11:K:67:PHE:C	11:K:68:PHE:HD2	2.16	0.49
1:A:83:HIS:C	1:A:83:HIS:CD2	2.87	0.48
1:A:594:GLY:N	1:A:603:ASN:ND2	2.60	0.48
1:A:867:ILE:HG22	1:A:872:GLY:N	2.28	0.48
1:A:1239:ARG:HH11	1:A:1239:ARG:HB3	1.78	0.48
2:B:38:PHE:CD1	2:B:811:TYR:CD2	3.01	0.48
2:B:171:PRO:HD2	2:B:457:LEU:HD12	1.94	0.48
2:B:497:ARG:HH22	2:B:775:LYS:CD	2.26	0.48
2:B:525:ALA:O	2:B:768:THR:HG23	2.13	0.48
2:B:635:ARG:HB2	2:B:636:PRO:CD	2.42	0.48
2:B:651:LEU:C	2:B:653:VAL:H	2.17	0.48
2:B:801:LYS:N	10:J:52:THR:CG2	2.75	0.48
2:B:1002:THR:HG21	2:B:1006:ILE:CG1	2.41	0.48
2:B:1215:ARG:CZ	4:D:15:LEU:HD21	2.43	0.48
2:B:1219:ASP:C	2:B:1219:ASP:OD1	2.52	0.48
3:C:36:VAL:HG21	3:C:251:LEU:HB2	1.94	0.48
4:D:14:ARG:O	4:D:16:LYS:HG2	2.13	0.48
4:D:56:ARG:CA	4:D:148:LEU:HD13	2.43	0.48
4:D:214:LEU:O	4:D:218:GLU:HB2	2.13	0.48
5:E:106:GLN:HA	5:E:130:ALA:HB2	1.95	0.48
7:G:132:SER:HB3	7:G:135:ASP:HB2	1.95	0.48
9:I:7:CYS:SG	9:I:8:ARG:O	2.71	0.48
12:L:46:VAL:O	12:L:56:LEU:HD11	2.13	0.48
1:A:9:ALA:O	1:A:10:PRO:C	2.49	0.48
1:A:186:LYS:O	1:A:187:LYS:CB	2.61	0.48
1:A:231:PRO:C	1:A:233:TRP:H	2.15	0.48
1:A:427:GLN:HG3	1:A:430:TRP:CZ2	2.48	0.48
1:A:443:LEU:CD1	1:A:455:MET:HB3	2.42	0.48
1:A:491:VAL:HG12	1:A:492:PRO:O	2.13	0.48
1:A:666:ILE:CD1	1:A:667:GLY:N	2.73	0.48
1:A:680:THR:HG23	2:B:729:ILE:CD1	2.43	0.48
1:A:731:ARG:HA	1:A:734:GLU:HB3	1.94	0.48
1:A:914:GLU:HB2	1:A:979:SER:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:639:ILE:HG22	2:B:641:GLU:HG2	1.95	0.48
2:B:810:GLU:HA	2:B:815:ARG:NH1	2.28	0.48
2:B:864:LYS:HB2	2:B:872:GLU:CD	2.33	0.48
2:B:918:ILE:HG13	2:B:935:ARG:CZ	2.43	0.48
2:B:1081:LEU:C	2:B:1083:ALA:N	2.65	0.48
2:B:1104:HIS:CG	2:B:1122:ARG:HB2	2.48	0.48
3:C:55:THR:O	3:C:56:THR:O	2.31	0.48
3:C:164:ALA:HA	3:C:167:HIS:O	2.13	0.48
3:C:179:GLU:HG2	3:C:180:TYR:N	2.28	0.48
4:D:202:ILE:CG2	4:D:207:LEU:HB2	2.43	0.48
6:F:89:GLU:HB3	6:F:134:ILE:HD11	1.95	0.48
6:F:101:ILE:HG23	6:F:107:VAL:HG22	1.94	0.48
7:G:26:LEU:HD12	7:G:56:ILE:HD13	1.95	0.48
12:L:38:LEU:HD13	12:L:49:LYS:HG2	1.94	0.48
1:A:7:SER:C	1:A:9:ALA:H	2.16	0.48
1:A:598:LEU:O	1:A:598:LEU:HD23	2.14	0.48
1:A:598:LEU:HA	8:H:122:LEU:HD13	1.96	0.48
1:A:787:PHE:CE1	1:A:796:SER:HA	2.49	0.48
1:A:889:SER:HB3	1:A:1297:GLU:HG2	1.94	0.48
1:A:913:LEU:HD12	1:A:914:GLU:N	2.28	0.48
1:A:1041:ALA:O	1:A:1045:VAL:HG23	2.13	0.48
2:B:411:PRO:O	2:B:414:ALA:HB3	2.13	0.48
2:B:418:LYS:HG2	2:B:422:LYS:HE3	1.96	0.48
2:B:579:ARG:CB	2:B:586:TRP:HE1	2.24	0.48
2:B:681:TRP:HA	2:B:684:LEU:HD12	1.95	0.48
2:B:755:ILE:HG23	2:B:809:MET:HE3	1.95	0.48
2:B:843:GLN:O	2:B:844:SER:C	2.52	0.48
2:B:1001:PHE:CD1	2:B:1001:PHE:C	2.87	0.48
2:B:1150:ARG:NH1	2:B:1150:ARG:HB3	2.28	0.48
4:D:54:GLU:OE2	4:D:164:ILE:HD11	2.14	0.48
5:E:64:PRO:HB2	5:E:69:ILE:HD11	1.94	0.48
6:F:148:VAL:HG23	6:F:149:GLU:H	1.78	0.48
7:G:6:ASP:HB3	7:G:73:LYS:NZ	2.28	0.48
9:I:11:ASN:C	9:I:12:ASN:HD22	2.17	0.48
1:A:10:PRO:HA	4:D:1:MET:HB2	1.94	0.48
1:A:492:PRO:HB3	1:A:501:LEU:HD12	1.95	0.48
1:A:1356:ILE:HG21	1:A:1363:VAL:HG21	1.95	0.48
2:B:22:SER:HA	2:B:654:ARG:CB	2.43	0.48
2:B:67:SER:HB2	2:B:92:PHE:CD1	2.48	0.48
2:B:435:THR:C	2:B:437:GLU:H	2.16	0.48
2:B:459:TYR:C	2:B:459:TYR:CD2	2.87	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:653:VAL:HG13	2:B:657:HIS:CG	2.49	0.48
2:B:821:GLN:NE2	2:B:850:LEU:HD12	2.28	0.48
2:B:895:ASP:C	2:B:897:GLY:H	2.16	0.48
2:B:1068:GLY:O	2:B:1069:PHE:O	2.31	0.48
5:E:22:MET:HE1	5:E:26:ARG:HH11	1.74	0.48
12:L:39:SER:O	12:L:40:LEU:CB	2.60	0.48
12:L:47:ARG:HG2	12:L:52:GLY:O	2.13	0.48
1:A:963:ILE:HD11	1:A:1048:ASN:HB2	1.95	0.48
1:A:1120:LEU:O	1:A:1323:ASP:N	2.47	0.48
1:A:1142:THR:HB	1:A:1271:ILE:O	2.14	0.48
1:A:1356:ILE:HG21	1:A:1363:VAL:CG2	2.44	0.48
2:B:169:ARG:CB	2:B:454:THR:HG23	2.43	0.48
2:B:1072:MET:HE2	2:B:1087:PHE:HB2	1.95	0.48
3:C:35:ARG:HB3	3:C:35:ARG:HH11	1.78	0.48
3:C:160:LYS:O	3:C:161:LYS:O	2.31	0.48
3:C:259:LEU:HD21	11:K:91:CYS:CB	2.41	0.48
5:E:78:LEU:HD11	5:E:109:ILE:HD11	1.95	0.48
5:E:202:SER:HB3	5:E:205:SER:O	2.13	0.48
6:F:74:ILE:CG2	6:F:75:PRO:HD2	2.42	0.48
6:F:89:GLU:HB3	6:F:134:ILE:CD1	2.44	0.48
8:H:40:LEU:HG	8:H:41:ASP:O	2.13	0.48
8:H:41:ASP:O	8:H:42:ILE:HG13	2.14	0.48
8:H:42:ILE:HG22	8:H:44:VAL:HG22	1.95	0.48
9:I:6:PHE:CD1	9:I:11:ASN:OD1	2.64	0.48
11:K:65:HIS:CD2	11:K:67:PHE:N	2.67	0.48
1:A:71:GLN:C	1:A:73:GLY:H	2.16	0.48
1:A:90:VAL:HG11	1:A:297:GLN:HA	1.96	0.48
1:A:105:CYS:SG	1:A:139:TRP:HA	2.54	0.48
1:A:353:ILE:HD13	1:A:487:MET:CE	2.40	0.48
1:A:452:LYS:HG3	2:B:1140:ALA:CB	2.44	0.48
1:A:474:VAL:HG22	1:A:474:VAL:O	2.12	0.48
1:A:833:GLU:HG2	1:A:1102:LYS:HD2	1.94	0.48
1:A:960:ILE:HA	1:A:963:ILE:CG2	2.43	0.48
1:A:1005:GLU:O	1:A:1006:ILE:C	2.51	0.48
2:B:1107:ALA:O	2:B:1108:ARG:HB3	2.13	0.48
5:E:77:SER:O	5:E:105:PHE:HB3	2.13	0.48
5:E:100:ILE:HG23	5:E:105:PHE:CB	2.42	0.48
7:G:15:PRO:CA	7:G:18:PHE:CD1	2.91	0.48
7:G:79:PHE:CE2	7:G:105:PRO:HD2	2.49	0.48
10:J:14:VAL:HG12	10:J:50:ILE:HD11	1.95	0.48
13:T:15:DC:H2'	13:T:16:DT:H71	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:ALA:O	1:A:83:HIS:HD2	1.97	0.48
1:A:381:THR:HG22	1:A:383:TYR:H	1.79	0.48
1:A:427:GLN:O	1:A:428:TYR:C	2.52	0.48
1:A:658:LEU:HD12	2:B:830:TYR:CD1	2.49	0.48
1:A:915:SER:O	1:A:919:ILE:HG13	2.13	0.48
2:B:181:LEU:CD2	2:B:189:LEU:HD22	2.43	0.48
2:B:213:ILE:HD12	2:B:214:ALA:H	1.78	0.48
2:B:254:LEU:HD11	2:B:273:LEU:HD23	1.96	0.48
2:B:340:ALA:C	2:B:342:GLY:H	2.17	0.48
2:B:600:LEU:O	2:B:609:ILE:HD11	2.14	0.48
2:B:1187:ASN:OD1	2:B:1190:ASP:N	2.43	0.48
3:C:73:GLN:HE21	3:C:74:SER:H	1.62	0.48
4:D:192:LYS:HE3	4:D:204:ASP:OD1	2.14	0.48
5:E:2:ASP:O	5:E:3:GLN:HG2	2.14	0.48
5:E:100:ILE:HG23	5:E:105:PHE:CG	2.49	0.48
9:I:69:PRO:HB2	9:I:85:PHE:HE2	1.77	0.48
11:K:18:LYS:NZ	11:K:37:LYS:O	2.47	0.48
12:L:33:GLU:C	12:L:35:SER:H	2.17	0.48
12:L:58:LYS:O	12:L:58:LYS:HG2	2.12	0.48
1:A:130:ASP:C	1:A:132:LYS:H	2.17	0.48
1:A:540:PHE:HA	1:A:572:TRP:O	2.12	0.48
1:A:608:ILE:C	1:A:610:GLY:N	2.67	0.48
1:A:814:PHE:HE1	2:B:519:TRP:HA	1.77	0.48
1:A:843:LYS:HZ1	2:B:1135:ARG:HH12	1.62	0.48
1:A:958:VAL:CG2	1:A:1053:PHE:HA	2.44	0.48
1:A:1001:ARG:HD2	6:F:81:THR:O	2.14	0.48
2:B:274:PRO:O	2:B:275:TYR:HB2	2.13	0.48
2:B:299:GLU:CG	2:B:571:PRO:HG3	2.43	0.48
2:B:589:VAL:CG1	2:B:590:HIS:N	2.75	0.48
2:B:635:ARG:O	2:B:692:TYR:HA	2.13	0.48
2:B:653:VAL:HG13	2:B:657:HIS:CD2	2.48	0.48
2:B:814:PHE:O	2:B:817:LEU:N	2.47	0.48
2:B:855:PHE:CD2	2:B:972:LYS:HE3	2.48	0.48
3:C:33:LEU:HG	3:C:37:MET:CE	2.44	0.48
3:C:66:ARG:NH2	10:J:2:ILE:CG2	2.76	0.48
4:D:163:VAL:O	4:D:166:LEU:HB3	2.13	0.48
5:E:90:VAL:O	5:E:90:VAL:HG22	2.13	0.48
5:E:91:LYS:C	5:E:93:MET:N	2.65	0.48
5:E:133:GLU:HG2	5:E:135:PHE:HE1	1.79	0.48
5:E:147:HIS:HD2	5:E:149:LEU:H	1.61	0.48
6:F:94:LEU:CD2	6:F:122:MET:HA	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:130:ILE:O	6:F:148:VAL:CG2	2.46	0.48
6:F:135:ARG:NH2	6:F:145:ASP:OD2	2.46	0.48
8:H:56:THR:HB	8:H:145:ARG:HG2	1.96	0.48
10:J:7:CYS:SG	10:J:49:MET:CE	3.02	0.48
11:K:42:LEU:HD22	11:K:71:PHE:HZ	1.79	0.48
11:K:85:ASP:O	11:K:88:LYS:HB2	2.14	0.48
1:A:556:TRP:C	1:A:558:GLY:H	2.16	0.48
1:A:919:ILE:HD13	1:A:983:ILE:CD1	2.44	0.48
1:A:1273:LEU:N	1:A:1273:LEU:CD1	2.76	0.48
2:B:743:ILE:HD13	2:B:743:ILE:N	2.28	0.48
2:B:865:LYS:CD	2:B:961:LEU:HD21	2.43	0.48
2:B:1187:ASN:O	2:B:1188:LYS:CB	2.62	0.48
3:C:3:GLU:HB3	11:K:104:ASN:HD21	1.78	0.48
3:C:29:MET:O	3:C:32:SER:HB2	2.14	0.48
5:E:78:LEU:HD23	5:E:78:LEU:C	2.34	0.48
8:H:43:ASN:HB3	8:H:95:TYR:OH	2.13	0.48
8:H:107:VAL:HG21	8:H:124:ARG:NH2	2.29	0.48
8:H:142:LEU:C	8:H:143:LEU:HD12	2.34	0.48
12:L:38:LEU:HD11	12:L:49:LYS:HE2	1.96	0.48
1:A:21:LEU:HD21	1:A:1413:GLY:C	2.34	0.48
1:A:299:HIS:C	1:A:301:ALA:H	2.18	0.48
1:A:308:ILE:HG22	1:A:309:ALA:N	2.19	0.48
1:A:345:VAL:HG23	1:A:346:ASP:O	2.13	0.48
1:A:958:VAL:HG11	1:A:1049:ILE:HG23	1.95	0.48
1:A:971:PHE:C	1:A:973:ILE:H	2.17	0.48
1:A:1348:LEU:HD21	1:A:1375:MET:SD	2.54	0.48
1:A:1404:GLU:HB3	1:A:1408:ILE:HG13	1.96	0.48
2:B:67:SER:HB2	2:B:92:PHE:HD1	1.79	0.48
2:B:126:SER:CB	2:B:172:ILE:HD11	2.43	0.48
2:B:361:LEU:N	2:B:362:PRO:CD	2.77	0.48
2:B:1156:ASP:O	2:B:1157:ALA:HB3	2.14	0.48
3:C:77:ILE:HG22	3:C:78:GLU:N	2.29	0.48
3:C:209:TYR:N	3:C:209:TYR:CD1	2.82	0.48
4:D:40:HIS:HB3	7:G:73:LYS:NZ	2.28	0.48
6:F:99:LEU:HD12	6:F:99:LEU:C	2.34	0.48
6:F:134:ILE:O	6:F:134:ILE:HG22	2.12	0.48
6:F:148:VAL:O	6:F:149:GLU:C	2.51	0.48
8:H:42:ILE:O	8:H:44:VAL:HG23	2.13	0.48
9:I:19:ASP:OD1	9:I:22:ASN:HB2	2.13	0.48
1:A:853:ASP:OD1	1:A:855:THR:CG2	2.62	0.47
1:A:1035:TYR:O	1:A:1037:LEU:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:843:GLN:N	2:B:994:TYR:O	2.31	0.47
2:B:973:ILE:CG2	2:B:974:PRO:HD2	2.44	0.47
2:B:1017:ILE:CB	2:B:1018:PRO:HD3	2.41	0.47
3:C:195:GLN:HB3	3:C:196:ASP:H	1.51	0.47
4:D:137:ASN:H	4:D:137:ASN:HD22	1.51	0.47
8:H:100:THR:N	8:H:117:SER:O	2.41	0.47
1:A:6:TYR:CD1	1:A:7:SER:N	2.82	0.47
1:A:323:LYS:H	1:A:323:LYS:CD	2.24	0.47
1:A:347:PHE:HB3	1:A:491:VAL:HB	1.96	0.47
1:A:361:LEU:HA	1:A:471:ASN:ND2	2.29	0.47
1:A:444:PHE:CB	1:A:458:HIS:HD2	2.27	0.47
1:A:500:GLU:O	1:A:504:LEU:HD13	2.14	0.47
1:A:886:ILE:CG2	1:A:952:ALA:HB2	2.44	0.47
2:B:466:TRP:N	2:B:475:SER:HB2	2.29	0.47
2:B:593:PRO:O	2:B:596:LEU:N	2.47	0.47
2:B:616:ILE:HD12	2:B:616:ILE:H	1.79	0.47
2:B:807:ARG:NH1	2:B:807:ARG:HB3	2.28	0.47
2:B:882:THR:HG22	2:B:884:ARG:N	2.29	0.47
6:F:138:LEU:CD2	6:F:139:PRO:HD2	2.43	0.47
7:G:96:GLN:HA	7:G:121:PHE:CZ	2.50	0.47
11:K:24:ASP:H	11:K:31:VAL:HA	1.79	0.47
12:L:55:ILE:HG12	12:L:56:LEU:N	2.28	0.47
13:T:15:DC:H2"	13:T:16:DT:OP2	2.14	0.47
1:A:608:ILE:C	1:A:610:GLY:H	2.16	0.47
1:A:774:ARG:O	1:A:775:ILE:C	2.52	0.47
1:A:784:LEU:C	1:A:786:HIS:H	2.17	0.47
2:B:616:ILE:HG12	2:B:697:GLU:HA	1.96	0.47
2:B:814:PHE:O	2:B:816:GLU:N	2.47	0.47
2:B:826:ALA:CB	2:B:1008:PRO:HB3	2.42	0.47
2:B:880:THR:HG22	2:B:880:THR:O	2.14	0.47
2:B:891:ASP:C	2:B:893:LEU:H	2.16	0.47
3:C:105:GLY:O	3:C:149:LYS:O	2.31	0.47
3:C:124:LEU:HD23	3:C:124:LEU:HA	1.72	0.47
4:D:23:ASN:O	7:G:83:LYS:HD2	2.14	0.47
4:D:118:THR:HB	4:D:121:LYS:HB2	1.96	0.47
6:F:119:ARG:O	6:F:122:MET:HB2	2.14	0.47
8:H:92:ASP:C	8:H:93:TYR:CD1	2.87	0.47
9:I:111:THR:CG2	9:I:113:ASP:HB2	2.45	0.47
11:K:55:LYS:CB	11:K:81:TYR:CE1	2.97	0.47
12:L:31:CYS:HB2	12:L:48:CYS:SG	2.53	0.47
13:T:11:DA:H2"	13:T:12:DG:O5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:7:SER:HB2	2:B:1175:LEU:HD22	1.94	0.47
1:A:116:ASP:C	1:A:118:HIS:H	2.16	0.47
1:A:228:PHE:N	1:A:228:PHE:CD2	2.83	0.47
1:A:311:GLN:HB2	1:A:312:PRO:CD	2.44	0.47
1:A:350:ARG:HB2	1:A:488:ASN:OD1	2.15	0.47
1:A:774:ARG:CZ	1:A:797:LYS:CB	2.92	0.47
1:A:1114:PRO:O	1:A:1115:SER:O	2.31	0.47
2:B:286:PHE:HA	2:B:289:LEU:HD12	1.96	0.47
2:B:755:ILE:HG23	2:B:809:MET:HE2	1.96	0.47
2:B:840:ILE:CG2	2:B:994:TYR:HD1	2.26	0.47
2:B:1065:GLN:HB3	2:B:1069:PHE:O	2.14	0.47
2:B:1165:ILE:HG22	4:D:15:LEU:HA	1.97	0.47
5:E:136:ASN:OD1	5:E:137:GLU:N	2.47	0.47
7:G:119:LEU:CD1	7:G:132:SER:HB2	2.44	0.47
7:G:164:LYS:O	7:G:164:LYS:HG2	2.13	0.47
8:H:63:LEU:HD13	8:H:64:ASN:N	2.29	0.47
10:J:25:LEU:O	10:J:29:GLU:HA	2.15	0.47
11:K:55:LYS:HD2	11:K:81:TYR:HD1	1.78	0.47
1:A:265:LYS:O	1:A:269:ILE:HG13	2.14	0.47
1:A:442:VAL:HG11	1:A:489:LEU:HD11	1.97	0.47
1:A:707:GLY:O	1:A:708:MET:HG3	2.14	0.47
1:A:870:GLU:HG2	5:E:208:TYR:CD2	2.49	0.47
1:A:1242:VAL:CG1	1:A:1243:VAL:H	2.14	0.47
2:B:99:LYS:HB3	2:B:100:PRO:HD2	1.96	0.47
2:B:455:SER:O	2:B:458:LYS:HB2	2.13	0.47
2:B:558:LEU:C	2:B:560:GLU:N	2.68	0.47
3:C:176:ILE:CG2	3:C:177:GLU:N	2.78	0.47
6:F:109:VAL:HG11	6:F:123:LYS:CD	2.44	0.47
8:H:86:ASP:O	8:H:87:ARG:O	2.32	0.47
10:J:57:ILE:CA	10:J:60:PHE:HD2	2.24	0.47
1:A:84:ILE:O	1:A:84:ILE:CG2	2.61	0.47
1:A:265:LYS:HD3	1:A:303:TYR:CA	2.44	0.47
1:A:326:ARG:NH2	1:A:1407:GLU:HG2	2.29	0.47
1:A:384:ASN:O	1:A:385:ILE:C	2.53	0.47
1:A:709:THR:HG23	9:I:94:ASP:HA	1.97	0.47
1:A:733:ALA:O	1:A:737:LEU:HG	2.14	0.47
1:A:1121:GLU:HB3	1:A:1124:HIS:CD2	2.49	0.47
1:A:1423:GLY:H	1:A:1426:GLU:HG3	1.80	0.47
2:B:276:ILE:O	2:B:278:GLN:N	2.40	0.47
2:B:363:HIS:C	2:B:365:THR:H	2.17	0.47
2:B:891:ASP:O	2:B:893:LEU:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1034:VAL:HG21	2:B:1055:ILE:HG23	1.97	0.47
2:B:1047:PHE:CD1	2:B:1047:PHE:N	2.82	0.47
2:B:1065:GLN:NE2	2:B:1067:ARG:H	2.06	0.47
2:B:1112:GLN:HG2	2:B:1113:VAL:N	2.29	0.47
4:D:22:GLU:OE1	4:D:22:GLU:N	2.37	0.47
6:F:79:ARG:HH22	6:F:150:GLU:CD	2.17	0.47
9:I:85:PHE:HD2	9:I:85:PHE:H	1.50	0.47
1:A:116:ASP:OD2	1:A:164:ARG:HD2	2.15	0.47
1:A:170:THR:CG2	1:A:171:GLN:N	2.76	0.47
1:A:174:ILE:CG2	1:A:175:ARG:N	2.78	0.47
1:A:444:PHE:HD1	1:A:489:LEU:HB2	1.80	0.47
1:A:446:ARG:HD2	1:A:480:ALA:HB2	1.95	0.47
1:A:477:PRO:HG3	1:A:520:CYS:O	2.15	0.47
1:A:515:GLN:HA	1:A:1367:HIS:NE2	2.30	0.47
1:A:777:PHE:C	1:A:779:PHE:H	2.16	0.47
1:A:834:THR:HG21	1:A:1077:THR:CB	2.45	0.47
1:A:940:ARG:HG2	1:A:940:ARG:HH11	1.80	0.47
1:A:1081:LEU:HD11	1:A:1098:VAL:N	2.25	0.47
1:A:1115:SER:O	1:A:1311:VAL:HG22	2.15	0.47
1:A:1214:GLU:O	1:A:1218:GLN:HG2	2.15	0.47
1:A:1265:ASN:C	1:A:1267:MET:N	2.66	0.47
1:A:1360:GLY:O	1:A:1361:SER:O	2.32	0.47
2:B:240:ILE:HG21	2:B:381:MET:HE1	1.95	0.47
2:B:352:ALA:HA	2:B:355:ILE:HD12	1.97	0.47
2:B:363:HIS:O	2:B:364:ILE:CB	2.63	0.47
2:B:1057:LYS:O	2:B:1061:GLU:HG3	2.14	0.47
2:B:1201:LYS:HE2	2:B:1205:GLN:CD	2.35	0.47
3:C:43:THR:O	3:C:44:LEU:HB2	2.14	0.47
3:C:167:HIS:HE1	12:L:70:ARG:HA	1.80	0.47
3:C:233:GLU:HB3	3:C:234:SER:H	1.53	0.47
4:D:29:LEU:HB3	7:G:82:PHE:CE2	2.50	0.47
4:D:67:ARG:HA	4:D:133:THR:CG2	2.45	0.47
5:E:52:ARG:HH11	5:E:52:ARG:HG3	1.78	0.47
5:E:79:TRP:HE1	5:E:81:GLU:HB2	1.79	0.47
6:F:73:ALA:HB2	6:F:143:PHE:CD2	2.50	0.47
7:G:44:TYR:CD2	7:G:105:PRO:HB2	2.49	0.47
7:G:112:LYS:O	7:G:115:MET:HG2	2.14	0.47
8:H:103:LYS:HG2	8:H:104:PHE:N	2.30	0.47
9:I:98:VAL:HG12	9:I:99:LEU:N	2.28	0.47
1:A:203:SER:OG	1:A:206:GLU:HB2	2.15	0.47
1:A:244:PRO:CB	1:A:245:PRO:HD3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:469:ARG:HB3	1:A:469:ARG:HH11	1.80	0.47
1:A:511:ILE:CG2	1:A:634:THR:HG21	2.44	0.47
1:A:552:TRP:CE3	1:A:651:LYS:HB3	2.50	0.47
1:A:600:PRO:HG2	1:A:601:LYS:N	2.18	0.47
1:A:726:ARG:HD2	1:A:765:VAL:O	2.15	0.47
1:A:883:LEU:O	1:A:886:ILE:HG22	2.15	0.47
1:A:1445:ILE:HD13	7:G:70:PHE:CZ	2.50	0.47
2:B:29:ASP:CB	2:B:658:ILE:HD13	2.44	0.47
2:B:46:GLN:NE2	2:B:496:ARG:HB3	2.30	0.47
3:C:35:ARG:HD3	11:K:41:THR:HA	1.96	0.47
4:D:119:ARG:HD3	4:D:221:TYR:CD2	2.50	0.47
8:H:12:VAL:HG13	8:H:26:ILE:HG21	1.96	0.47
11:K:49:GLU:HA	11:K:52:ASN:ND2	2.30	0.47
11:K:101:LEU:C	11:K:101:LEU:HD23	2.35	0.47
13:T:15:DC:C2'	13:T:16:DT:C7	2.88	0.47
1:A:154:SER:OG	1:A:162:VAL:HG23	2.15	0.47
1:A:541:ILE:HD11	1:A:656:TRP:NE1	2.28	0.47
1:A:1327:ILE:HG23	5:E:147:HIS:HE1	1.80	0.47
2:B:269:ILE:HG21	2:B:282:ILE:HD13	1.96	0.47
2:B:435:THR:C	2:B:437:GLU:N	2.68	0.47
2:B:542:MET:CE	2:B:636:PRO:HG3	2.45	0.47
2:B:957:ASN:O	2:B:959:ASP:N	2.48	0.47
2:B:1223:ASP:HB3	2:B:1224:PHE:H	1.50	0.47
5:E:212:ARG:HH11	5:E:212:ARG:HG3	1.79	0.47
6:F:72:LYS:HE3	6:F:72:LYS:CA	2.44	0.47
7:G:88:ASP:HB2	7:G:143:ILE:O	2.15	0.47
7:G:91:VAL:HB	7:G:139:ILE:O	2.13	0.47
8:H:43:ASN:OD1	8:H:46:LEU:N	2.48	0.47
1:A:284:ALA:C	1:A:286:HIS:N	2.65	0.47
1:A:552:TRP:NE1	11:K:62:LYS:HB2	2.30	0.47
1:A:852:TYR:CD2	1:A:1060:PRO:CB	2.96	0.47
1:A:1058:VAL:O	1:A:1060:PRO:HD3	2.15	0.47
1:A:1284:MET:HA	1:A:1306:LEU:HD23	1.97	0.47
2:B:54:PHE:CZ	2:B:59:LEU:HD13	2.50	0.47
2:B:195:CYS:HB2	2:B:784:ASN:HB3	1.97	0.47
2:B:687:GLU:O	2:B:689:LEU:N	2.48	0.47
2:B:745:PRO:O	2:B:747:MET:N	2.48	0.47
2:B:746:SER:HB3	2:B:1046:PRO:CB	2.45	0.47
3:C:221:TYR:CE1	3:C:222:LYS:HG3	2.50	0.47
8:H:116:TYR:HE2	8:H:140:ALA:CB	2.27	0.47
9:I:80:SER:OG	9:I:105:SER:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:226:GLU:O	1:A:226:GLU:HG2	2.15	0.46
1:A:299:HIS:O	1:A:301:ALA:N	2.48	0.46
1:A:316:GLN:O	1:A:317:LYS:C	2.53	0.46
1:A:317:LYS:HG2	2:B:471:LYS:NZ	2.29	0.46
1:A:567:LYS:CB	8:H:96:VAL:H	2.18	0.46
1:A:701:LEU:O	1:A:702:LEU:HG	2.14	0.46
1:A:821:ARG:HB2	1:A:821:ARG:NH1	2.30	0.46
1:A:921:GLY:O	1:A:923:LEU:N	2.48	0.46
2:B:170:LEU:O	2:B:172:ILE:N	2.48	0.46
2:B:289:LEU:HD22	2:B:375:ALA:HB2	1.97	0.46
2:B:487:THR:O	2:B:490:SER:HB3	2.15	0.46
2:B:492:LEU:O	2:B:495:LEU:N	2.48	0.46
2:B:687:GLU:CB	2:B:689:LEU:HG	2.44	0.46
2:B:693:ILE:HD13	2:B:701:ILE:HD13	1.97	0.46
2:B:1023:VAL:O	2:B:1026:LEU:N	2.48	0.46
2:B:1097:HIS:H	2:B:1098:MET:HE2	1.79	0.46
3:C:88:CYS:SG	3:C:91:HIS:CA	3.03	0.46
9:I:53:GLY:O	9:I:89:GLN:HB2	2.15	0.46
11:K:44:ASN:N	11:K:61:TYR:CE1	2.83	0.46
1:A:441:PRO:HD2	1:A:498:ARG:NH2	2.30	0.46
1:A:482:PHE:CD2	1:A:482:PHE:N	2.80	0.46
1:A:1081:LEU:HD12	1:A:1098:VAL:HG23	1.97	0.46
1:A:1237:ILE:HG22	1:A:1238:ILE:H	1.78	0.46
2:B:26:THR:O	2:B:29:ASP:HB2	2.15	0.46
3:C:169:LYS:HE3	3:C:170:TRP:CZ2	2.50	0.46
5:E:147:HIS:CD2	5:E:149:LEU:H	2.33	0.46
7:G:106:MET:CG	7:G:107:LYS:N	2.78	0.46
8:H:40:LEU:CD1	8:H:123:MET:HB2	2.45	0.46
8:H:101:ALA:HB2	8:H:116:TYR:CE2	2.49	0.46
8:H:110:ASP:O	8:H:128:ASN:HB2	2.15	0.46
11:K:7:PHE:HA	11:K:10:PHE:CE2	2.49	0.46
11:K:78:THR:O	11:K:81:TYR:HB3	2.14	0.46
1:A:693:VAL:O	1:A:693:VAL:HG12	2.15	0.46
1:A:709:THR:HB	1:A:712:GLU:HG3	1.96	0.46
1:A:847:ASP:O	1:A:858:ASN:HA	2.16	0.46
1:A:873:MET:HG3	1:A:1056:SER:O	2.15	0.46
1:A:1002:GLY:CA	1:A:1007:ILE:HG21	2.29	0.46
1:A:1444:MET:O	6:F:132:LEU:HA	2.15	0.46
2:B:102:VAL:CG2	2:B:112:LEU:HB2	2.44	0.46
2:B:118:ARG:CG	2:B:204:ILE:HD13	2.43	0.46
2:B:120:ARG:NH1	12:L:54:ARG:HH11	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:312:GLU:O	2:B:315:LYS:HB2	2.15	0.46
2:B:792:MET:HG2	2:B:855:PHE:HE1	1.79	0.46
2:B:896:ASP:OD1	2:B:898:LEU:HB2	2.16	0.46
3:C:11:ARG:NH2	3:C:206:ASN:OD1	2.47	0.46
3:C:181:ASP:CG	3:C:186:LEU:HD13	2.36	0.46
4:D:118:THR:O	4:D:120:GLU:N	2.47	0.46
6:F:96:THR:O	6:F:100:GLN:HG3	2.16	0.46
7:G:88:ASP:HB3	7:G:144:ARG:HB2	1.97	0.46
7:G:96:GLN:HA	7:G:121:PHE:CE2	2.50	0.46
8:H:80:ARG:HH12	11:K:57:LEU:HD11	1.80	0.46
12:L:26:THR:CG2	12:L:27:LEU:N	2.79	0.46
1:A:215:SER:HB3	1:A:218:ASP:HB2	1.96	0.46
1:A:215:SER:HB3	1:A:218:ASP:CG	2.34	0.46
1:A:269:ILE:HG23	1:A:300:VAL:CG2	2.46	0.46
1:A:332:LYS:HB2	1:A:337:ARG:HD2	1.96	0.46
1:A:402:ALA:HB1	1:A:433:GLU:O	2.16	0.46
1:A:596:THR:C	1:A:598:LEU:N	2.63	0.46
1:A:834:THR:HG21	1:A:1077:THR:CA	2.46	0.46
1:A:1067:LEU:O	1:A:1069:ALA:N	2.48	0.46
1:A:1345:ARG:NH1	1:A:1373:ASP:OD1	2.48	0.46
1:A:1423:GLY:CA	1:A:1426:GLU:HG2	2.46	0.46
2:B:768:THR:O	2:B:771:SER:HB2	2.16	0.46
2:B:847:ASP:O	2:B:849:GLY:N	2.49	0.46
3:C:5:GLY:O	3:C:7:GLN:N	2.48	0.46
5:E:129:PRO:O	5:E:130:ALA:O	2.33	0.46
11:K:42:LEU:HD21	11:K:46:ILE:HD12	1.97	0.46
12:L:55:ILE:CG1	12:L:56:LEU:H	2.29	0.46
14:N:5:DC:H2'	14:N:6:DT:H72	1.98	0.46
15:P:6:A:H2'	15:P:7:G:H8	1.80	0.46
1:A:23:SER:O	1:A:25:GLU:N	2.49	0.46
1:A:37:PHE:HB2	1:A:52:GLY:HA3	1.98	0.46
1:A:227:VAL:C	1:A:228:PHE:CD2	2.88	0.46
1:A:537:ARG:O	1:A:540:PHE:CE1	2.68	0.46
1:A:542:GLU:O	1:A:546:VAL:HG23	2.16	0.46
1:A:725:ALA:HA	1:A:728:LYS:HE2	1.96	0.46
1:A:840:ARG:HH12	1:A:1102:LYS:HE3	1.81	0.46
1:A:901:LEU:HD11	1:A:983:ILE:HD13	1.97	0.46
1:A:1015:VAL:CG1	1:A:1019:CYS:SG	3.03	0.46
1:A:1152:ILE:HG22	1:A:1193:LEU:HA	1.96	0.46
1:A:1213:GLY:O	1:A:1216:ILE:N	2.49	0.46
1:A:1371:LEU:O	1:A:1375:MET:HG3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:388:CYS:O	2:B:390:LEU:N	2.48	0.46
2:B:496:ARG:HD2	2:B:751:VAL:CG2	2.45	0.46
2:B:653:VAL:HA	2:B:657:HIS:CD2	2.50	0.46
2:B:831:SER:HB3	2:B:994:TYR:OH	2.15	0.46
2:B:975:GLN:HE22	2:B:1100:ASP:CG	2.18	0.46
2:B:1073:TYR:CE2	2:B:1080:LYS:HG2	2.50	0.46
2:B:1077:THR:HG22	11:K:44:ASN:HD21	1.81	0.46
2:B:1166:CYS:SG	2:B:1166:CYS:O	2.73	0.46
3:C:3:GLU:HG3	11:K:104:ASN:CG	2.35	0.46
3:C:17:ASN:OD1	3:C:233:GLU:HG2	2.15	0.46
3:C:31:ASN:OD1	3:C:34:ARG:HD3	2.16	0.46
3:C:115:SER:O	3:C:118:LEU:HG	2.15	0.46
5:E:23:VAL:O	5:E:28:TYR:HD1	1.98	0.46
6:F:117:PRO:C	6:F:119:ARG:N	2.69	0.46
8:H:145:ARG:O	8:H:146:ARG:HB2	2.15	0.46
1:A:42:ASP:OD1	1:A:47:ARG:HA	2.15	0.46
1:A:675:THR:HG21	1:A:736:ASN:ND2	2.30	0.46
1:A:829:VAL:O	1:A:832:ALA:N	2.49	0.46
1:A:853:ASP:OD1	1:A:855:THR:N	2.49	0.46
1:A:1215:ARG:O	1:A:1218:GLN:HG3	2.16	0.46
1:A:1289:ARG:HH12	1:A:1326:ARG:NH1	2.13	0.46
1:A:1389:PHE:CD1	1:A:1390:ASN:N	2.83	0.46
1:A:1404:GLU:HB2	1:A:1408:ILE:CG1	2.46	0.46
2:B:642:ASP:HB3	2:B:649:LYS:CG	2.45	0.46
2:B:762:ASN:OD1	2:B:1022:THR:HA	2.16	0.46
2:B:785:TYR:HE2	10:J:60:PHE:CE1	2.33	0.46
2:B:955:THR:HG22	2:B:956:THR:N	2.29	0.46
2:B:1069:PHE:CD1	2:B:1069:PHE:N	2.82	0.46
2:B:1098:MET:CE	2:B:1098:MET:H	2.29	0.46
3:C:69:LEU:N	3:C:69:LEU:HD12	2.31	0.46
3:C:76:ASP:OD2	3:C:128:ASN:N	2.47	0.46
3:C:167:HIS:CD2	3:C:168:ALA:H	2.32	0.46
4:D:140:ASP:O	4:D:143:ASN:N	2.49	0.46
4:D:154:PHE:HA	4:D:219:THR:HB	1.98	0.46
4:D:187:THR:HG22	4:D:188:ALA:N	2.31	0.46
5:E:116:ILE:HG22	5:E:117:THR:N	2.31	0.46
6:F:113:GLY:O	6:F:115:THR:HG23	2.15	0.46
8:H:22:LYS:HD3	8:H:45:GLU:OE2	2.16	0.46
8:H:82:PRO:HG3	11:K:54:ARG:CD	2.45	0.46
11:K:20:LYS:HB3	11:K:34:THR:HB	1.97	0.46
1:A:95:PHE:O	1:A:96:ILE:C	2.54	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:CYS:C	1:A:144:THR:H	2.18	0.46
1:A:332:LYS:HB2	1:A:337:ARG:NH1	2.30	0.46
1:A:830:LYS:HG3	1:A:1098:VAL:HG11	1.98	0.46
1:A:1211:GLN:O	1:A:1212:VAL:C	2.54	0.46
2:B:69:LEU:HB3	2:B:70:ILE:H	1.63	0.46
2:B:213:ILE:HG12	2:B:497:ARG:HB3	1.98	0.46
2:B:855:PHE:HD2	2:B:972:LYS:HE3	1.79	0.46
2:B:911:ILE:CG2	2:B:966:VAL:HG11	2.46	0.46
2:B:971:THR:OG1	3:C:61:GLU:HG3	2.14	0.46
2:B:1085:ILE:N	2:B:1085:ILE:CD1	2.74	0.46
2:B:1130:PHE:CE1	2:B:1134:GLU:HB3	2.51	0.46
3:C:76:ASP:O	3:C:77:ILE:C	2.54	0.46
3:C:82:TYR:CE2	3:C:161:LYS:HG2	2.51	0.46
3:C:123:ASN:ND2	3:C:125:MET:HG2	2.30	0.46
3:C:154:LYS:O	3:C:155:LEU:HD23	2.15	0.46
4:D:142:LYS:O	4:D:146:GLN:HG3	2.15	0.46
5:E:121:MET:C	5:E:123:LEU:H	2.19	0.46
7:G:137:ILE:CG2	7:G:143:ILE:HD11	2.45	0.46
8:H:113:ALA:HB1	8:H:125:LEU:O	2.16	0.46
10:J:9:SER:HB2	10:J:45:CYS:HB2	1.97	0.46
10:J:24:LEU:O	10:J:30:LEU:HB2	2.16	0.46
1:A:52:GLY:N	1:A:56:PRO:HG3	2.31	0.46
1:A:367:PRO:HG2	1:A:370:ILE:HD12	1.96	0.46
1:A:432:VAL:O	1:A:432:VAL:HG12	2.15	0.46
1:A:439:ASN:N	1:A:460:VAL:O	2.46	0.46
1:A:553:VAL:HG22	1:A:652:VAL:CG2	2.46	0.46
1:A:877:HIS:CG	1:A:1056:SER:HA	2.51	0.46
1:A:949:ASP:HB3	1:A:951:GLU:H	1.80	0.46
1:A:1042:PHE:HE2	1:A:1046:LEU:HD11	1.78	0.46
1:A:1166:ASP:O	1:A:1167:GLU:C	2.53	0.46
1:A:1325:THR:CG2	1:A:1326:ARG:HG3	2.46	0.46
2:B:215:GLN:HA	2:B:215:GLN:NE2	2.31	0.46
2:B:251:ILE:O	2:B:251:ILE:HG22	2.16	0.46
2:B:746:SER:HB3	2:B:1046:PRO:HB2	1.98	0.46
2:B:1072:MET:CE	2:B:1087:PHE:HB2	2.45	0.46
2:B:1181:GLU:N	2:B:1188:LYS:HG3	2.31	0.46
3:C:173:ALA:O	3:C:174:ALA:HB2	2.16	0.46
5:E:100:ILE:O	5:E:100:ILE:CG2	2.63	0.46
5:E:163:GLU:OE2	5:E:167:ARG:HG2	2.15	0.46
6:F:90:ARG:HG3	6:F:91:ALA:H	1.79	0.46
8:H:112:ILE:CG2	8:H:113:ALA:N	2.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:50:THR:CG2	9:I:51:ASN:N	2.79	0.46
1:A:14:VAL:H	1:A:1432:GLN:NE2	1.96	0.46
1:A:65:LEU:O	1:A:66:LYS:C	2.54	0.46
1:A:127:ALA:O	1:A:129:LYS:N	2.49	0.46
1:A:230:ARG:O	1:A:231:PRO:C	2.54	0.46
1:A:377:PRO:CD	1:A:493:GLN:OE1	2.64	0.46
1:A:575:LYS:HB3	1:A:612:ILE:CG2	2.45	0.46
1:A:618:GLU:O	1:A:620:LYS:N	2.49	0.46
1:A:640:GLN:O	1:A:641:VAL:C	2.53	0.46
1:A:667:GLY:HA3	3:C:192:TRP:CH2	2.50	0.46
1:A:726:ARG:HD3	1:A:766:GLY:HA2	1.98	0.46
1:A:786:HIS:CE1	2:B:519:TRP:CZ2	3.02	0.46
1:A:883:LEU:HD11	1:A:1017:LEU:HD11	1.98	0.46
1:A:1004:ASN:ND2	1:A:1007:ILE:HG12	2.31	0.46
1:A:1041:ALA:O	1:A:1044:TRP:HB3	2.15	0.46
1:A:1126:ALA:O	1:A:1128:GLN:N	2.49	0.46
1:A:1178:ASP:C	1:A:1179:GLU:HG3	2.36	0.46
1:A:1187:GLN:HA	1:A:1244:ARG:CD	2.45	0.46
2:B:120:ARG:NH1	12:L:54:ARG:NH1	2.64	0.46
2:B:515:HIS:O	2:B:518:HIS:HB2	2.16	0.46
2:B:591:ARG:O	2:B:593:PRO:CD	2.64	0.46
2:B:773:MET:SD	2:B:987:LYS:HE3	2.55	0.46
2:B:794:ASN:O	2:B:795:ILE:HD12	2.15	0.46
2:B:830:TYR:HE2	2:B:1000:PRO:CD	2.22	0.46
2:B:860:MET:HG2	2:B:861:ASP:H	1.78	0.46
3:C:27:LEU:HD11	3:C:178:PHE:HE2	1.80	0.46
8:H:80:ARG:NH1	11:K:57:LEU:HD11	2.31	0.46
9:I:6:PHE:HA	9:I:14:LEU:HG	1.98	0.46
1:A:255:SER:OG	2:B:918:ILE:HG23	2.14	0.46
1:A:332:LYS:HA	1:A:337:ARG:HB3	1.98	0.46
1:A:353:ILE:HD11	1:A:480:ALA:HB1	1.97	0.46
1:A:700:ASN:HB2	9:I:98:VAL:CG2	2.46	0.46
1:A:725:ALA:O	1:A:728:LYS:HG2	2.15	0.46
1:A:817:ALA:O	1:A:818:MET:C	2.53	0.46
1:A:1308:THR:CG2	1:A:1310:GLY:O	2.63	0.46
2:B:25:ILE:HG23	2:B:658:ILE:CD1	2.44	0.46
2:B:67:SER:O	2:B:68:THR:C	2.54	0.46
2:B:244:LEU:HB2	2:B:249:ARG:HA	1.98	0.46
2:B:390:LEU:O	2:B:392:ARG:N	2.48	0.46
2:B:707:PRO:O	2:B:708:GLU:C	2.54	0.46
2:B:857:ARG:O	2:B:967:ARG:HA	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:859:TYR:H	2:B:859:TYR:HD1	1.62	0.46
2:B:969:ARG:HG2	2:B:970:THR:N	2.31	0.46
2:B:1050:ILE:N	2:B:1050:ILE:CD1	2.79	0.46
3:C:118:LEU:HD12	3:C:132:PRO:HG3	1.98	0.46
3:C:138:GLU:HB2	3:C:140:ASN:ND2	2.31	0.46
3:C:176:ILE:HG22	3:C:177:GLU:O	2.16	0.46
4:D:63:LEU:O	4:D:63:LEU:HD13	2.16	0.46
6:F:138:LEU:HD23	6:F:138:LEU:HA	1.73	0.46
8:H:40:LEU:HD13	8:H:123:MET:SD	2.56	0.46
8:H:131:ASN:C	8:H:133:ASN:H	2.19	0.46
1:A:280:GLU:O	1:A:282:ASN:N	2.48	0.45
1:A:513:SER:OG	1:A:515:GLN:HG2	2.15	0.45
1:A:626:ASN:O	1:A:631:HIS:CD2	2.70	0.45
1:A:666:ILE:CD1	1:A:667:GLY:H	2.13	0.45
1:A:761:MET:HA	1:A:804:TYR:HB2	1.97	0.45
1:A:774:ARG:CZ	1:A:797:LYS:HG3	2.45	0.45
1:A:833:GLU:HG3	1:A:1102:LYS:NZ	2.31	0.45
1:A:1389:PHE:CG	1:A:1390:ASN:N	2.83	0.45
2:B:101:MET:HB3	2:B:109:THR:CG2	2.46	0.45
2:B:435:THR:O	2:B:437:GLU:N	2.49	0.45
2:B:453:ILE:O	2:B:454:THR:C	2.53	0.45
2:B:689:LEU:O	2:B:690:VAL:HG23	2.15	0.45
2:B:879:ARG:HD3	2:B:879:ARG:HA	1.51	0.45
2:B:889:THR:HG23	2:B:891:ASP:OD2	2.16	0.45
3:C:100:THR:HG22	3:C:102:GLN:NE2	2.31	0.45
3:C:147:LEU:HB2	3:C:151:GLN:CB	2.42	0.45
3:C:232:VAL:HG11	3:C:244:VAL:CG2	2.46	0.45
4:D:128:VAL:O	4:D:132:GLN:HG3	2.16	0.45
4:D:192:LYS:HZ3	4:D:199:ASN:HA	1.81	0.45
9:I:19:ASP:HB2	9:I:24:ARG:HG3	1.98	0.45
9:I:72:ASP:HB2	9:I:81:ARG:HB3	1.98	0.45
1:A:208:LEU:HD23	1:A:208:LEU:C	2.36	0.45
1:A:507:VAL:HG13	1:A:521:MET:HE1	1.97	0.45
1:A:606:LEU:HD11	1:A:608:ILE:HG13	1.99	0.45
1:A:689:LYS:HE2	1:A:721:PHE:CE2	2.51	0.45
1:A:768:GLN:NE2	1:A:816:HIS:ND1	2.65	0.45
1:A:836:TYR:CD2	1:A:840:ARG:HD2	2.51	0.45
1:A:857:ARG:NH1	6:F:139:PRO:HB2	2.32	0.45
1:A:899:VAL:HG22	1:A:908:LEU:HD21	1.98	0.45
1:A:1445:ILE:HD12	7:G:59:GLY:O	2.17	0.45
2:B:57:TYR:HD1	2:B:57:TYR:N	2.09	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:102:VAL:N	2:B:110:HIS:O	2.44	0.45
2:B:221:ASN:OD1	2:B:242:SER:HA	2.16	0.45
2:B:261:ARG:HH11	2:B:261:ARG:HG3	1.81	0.45
2:B:265:SER:O	2:B:266:ALA:HB3	2.16	0.45
2:B:324:ILE:HG12	2:B:329:THR:HG22	1.98	0.45
2:B:680:THR:OG1	2:B:681:TRP:N	2.48	0.45
2:B:762:ASN:HD21	2:B:1024:ALA:HB3	1.82	0.45
2:B:912:ILE:O	2:B:938:SER:HA	2.16	0.45
2:B:942:ARG:O	2:B:944:THR:N	2.50	0.45
2:B:1084:GLN:C	2:B:1085:ILE:HD12	2.37	0.45
3:C:123:ASN:C	3:C:125:MET:N	2.69	0.45
4:D:16:LYS:C	4:D:18:VAL:H	2.19	0.45
6:F:80:ALA:H	6:F:144:GLU:CD	2.20	0.45
11:K:43:GLY:HA3	11:K:61:TYR:CE1	2.51	0.45
12:L:55:ILE:HG12	12:L:56:LEU:H	1.82	0.45
1:A:44:THR:O	1:A:45:GLN:HB2	2.17	0.45
1:A:52:GLY:H	1:A:56:PRO:HG3	1.80	0.45
1:A:146:MET:O	1:A:170:THR:HG23	2.15	0.45
1:A:230:ARG:O	1:A:232:GLU:N	2.49	0.45
1:A:283:GLY:O	1:A:285:PRO:HD3	2.16	0.45
1:A:1004:ASN:ND2	5:E:167:ARG:CD	2.74	0.45
2:B:43:LEU:HA	2:B:43:LEU:HD23	1.78	0.45
2:B:97:VAL:HG22	2:B:128:LEU:HG	1.97	0.45
2:B:240:ILE:HG23	2:B:240:ILE:O	2.16	0.45
2:B:253:THR:CG2	2:B:254:LEU:N	2.80	0.45
2:B:261:ARG:HG3	2:B:261:ARG:NH1	2.31	0.45
2:B:383:ASN:O	2:B:387:LEU:HD13	2.16	0.45
2:B:779:GLY:O	2:B:795:ILE:HA	2.16	0.45
2:B:858:SER:HA	2:B:966:VAL:O	2.16	0.45
2:B:1159:ARG:CD	2:B:1193:GLN:HE21	2.28	0.45
2:B:1166:CYS:O	2:B:1168:LEU:N	2.41	0.45
3:C:11:ARG:HD3	3:C:209:TYR:OH	2.16	0.45
3:C:77:ILE:O	3:C:79:GLN:N	2.50	0.45
3:C:238:ILE:CD1	3:C:246:ARG:NH1	2.78	0.45
4:D:119:ARG:HD3	4:D:221:TYR:CE2	2.52	0.45
7:G:96:GLN:O	7:G:112:LYS:CD	2.63	0.45
1:A:639:PRO:CD	1:A:640:GLN:H	2.28	0.45
1:A:1120:LEU:H	1:A:1120:LEU:CD1	2.20	0.45
1:A:1127:ASP:HB3	1:A:1130:GLN:HB2	1.99	0.45
1:A:1144:LYS:HD2	1:A:1268:LEU:O	2.17	0.45
1:A:1341:ILE:HG23	1:A:1342:GLU:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:402:GLY:CA	2:B:695:ALA:HB3	2.46	0.45
2:B:605:ARG:HB3	2:B:688:GLY:HA2	1.99	0.45
2:B:620:ARG:NH2	9:I:89:GLN:HE22	2.15	0.45
2:B:661:LEU:HD11	2:B:684:LEU:CD1	2.43	0.45
2:B:661:LEU:CD1	2:B:684:LEU:HD11	2.42	0.45
2:B:806:THR:HG21	2:B:808:ALA:HB3	1.98	0.45
2:B:815:ARG:O	10:J:54:VAL:HG21	2.16	0.45
2:B:942:ARG:O	2:B:943:SER:C	2.55	0.45
2:B:1087:PHE:C	2:B:1087:PHE:CD2	2.88	0.45
3:C:15:LYS:O	3:C:240:VAL:CG2	2.65	0.45
3:C:17:ASN:N	3:C:240:VAL:HG11	2.32	0.45
4:D:117:GLU:OE2	4:D:155:ARG:O	2.33	0.45
4:D:191:ALA:HB3	4:D:207:LEU:HD21	1.99	0.45
5:E:78:LEU:HD21	5:E:109:ILE:HD12	1.99	0.45
8:H:83:GLN:O	8:H:85:GLY:N	2.49	0.45
9:I:33:SER:O	9:I:35:VAL:HG23	2.16	0.45
14:N:4:DA:H2"	14:N:5:DC:H6	1.81	0.45
1:A:38:PRO:CA	1:A:270:LEU:HD23	2.44	0.45
1:A:262:LEU:HD12	1:A:328:ARG:NH2	2.32	0.45
1:A:300:VAL:O	1:A:300:VAL:HG12	2.16	0.45
1:A:332:LYS:CA	1:A:337:ARG:HB3	2.46	0.45
1:A:560:ILE:CD1	8:H:79:TRP:HB3	2.46	0.45
1:A:777:PHE:C	1:A:779:PHE:N	2.69	0.45
1:A:836:TYR:HB2	13:T:18:DA:H5'	1.97	0.45
1:A:929:LEU:HD23	1:A:983:ILE:HG21	1.99	0.45
1:A:939:ASP:O	1:A:942:PHE:N	2.46	0.45
2:B:63:ILE:O	2:B:67:SER:HB3	2.16	0.45
2:B:287:ARG:NH1	2:B:324:ILE:O	2.49	0.45
2:B:343:ILE:CG2	2:B:347:LYS:HG3	2.47	0.45
2:B:529:GLU:OE2	2:B:769:TYR:CD1	2.70	0.45
2:B:542:MET:HE3	2:B:636:PRO:HG3	1.99	0.45
2:B:751:VAL:HG13	2:B:812:LEU:HD22	1.99	0.45
2:B:766:ARG:HH21	15:P:11:U:H3	1.65	0.45
2:B:911:ILE:O	2:B:911:ILE:HG22	2.16	0.45
2:B:1161:HIS:CE1	2:B:1175:LEU:HD21	2.52	0.45
3:C:49:VAL:HG21	3:C:64:ALA:HA	1.98	0.45
3:C:168:ALA:O	3:C:171:GLY:N	2.47	0.45
4:D:51:ASN:OD1	4:D:54:GLU:CB	2.65	0.45
5:E:60:PHE:C	5:E:60:PHE:CD2	2.88	0.45
5:E:172:GLU:HG3	5:E:213:ILE:CD1	2.47	0.45
7:G:119:LEU:HA	7:G:131:GLN:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:9:ILE:HG12	8:H:56:THR:HA	1.98	0.45
8:H:59:ILE:HG12	8:H:142:LEU:HD12	1.96	0.45
9:I:99:LEU:C	9:I:100:PHE:CD1	2.90	0.45
10:J:53:HIS:CE1	10:J:55:ASP:HA	2.51	0.45
12:L:32:ALA:H	12:L:55:ILE:HG13	1.82	0.45
1:A:347:PHE:N	1:A:347:PHE:CD1	2.85	0.45
1:A:783:THR:O	1:A:784:LEU:HD23	2.16	0.45
1:A:1017:LEU:HD12	1:A:1017:LEU:O	2.16	0.45
1:A:1259:MET:HG3	1:A:1262:LYS:NZ	2.28	0.45
1:A:1341:ILE:HD12	1:A:1379:GLY:O	2.17	0.45
2:B:95:ILE:HG13	2:B:130:VAL:HG22	1.98	0.45
2:B:120:ARG:NE	2:B:955:THR:CG2	2.74	0.45
2:B:282:ILE:HD11	2:B:317:CYS:SG	2.56	0.45
2:B:365:THR:HG23	2:B:367:LEU:N	2.30	0.45
2:B:766:ARG:HA	2:B:766:ARG:HD3	1.80	0.45
2:B:801:LYS:O	2:B:822:ASN:ND2	2.50	0.45
2:B:936:ASP:OD1	2:B:937:ALA:N	2.49	0.45
5:E:42:PHE:HZ	5:E:58:MET:CE	2.29	0.45
7:G:138:THR:CG2	7:G:139:ILE:N	2.60	0.45
8:H:130:ARG:N	8:H:130:ARG:CD	2.74	0.45
9:I:7:CYS:O	9:I:8:ARG:O	2.34	0.45
10:J:56:LEU:O	10:J:59:LYS:N	2.50	0.45
11:K:55:LYS:HB3	11:K:81:TYR:CE1	2.51	0.45
1:A:49:LYS:NZ	1:A:61:ILE:CG1	2.78	0.45
1:A:79:GLY:H	2:B:1205:GLN:HE22	1.63	0.45
1:A:95:PHE:HD1	1:A:234:MET:HA	1.82	0.45
1:A:134:ARG:HG2	1:A:138:ILE:HD11	1.99	0.45
1:A:452:LYS:HE3	2:B:1141:HIS:ND1	2.32	0.45
1:A:562:THR:HA	1:A:563:PRO:HD3	1.79	0.45
1:A:971:PHE:HE2	1:A:1040:GLN:HG2	1.82	0.45
1:A:1123:GLY:O	1:A:1125:ALA:N	2.49	0.45
1:A:1431:GLY:HA3	2:B:1152:MET:SD	2.56	0.45
2:B:58:THR:O	2:B:62:ILE:HG13	2.17	0.45
2:B:100:PRO:CD	2:B:180:TYR:HE1	2.29	0.45
2:B:582:VAL:HG22	2:B:626:ILE:HG21	1.99	0.45
2:B:616:ILE:HG13	2:B:697:GLU:HA	1.98	0.45
2:B:640:VAL:HG23	2:B:740:HIS:HA	1.99	0.45
2:B:658:ILE:HG22	2:B:659:ALA:N	2.32	0.45
2:B:1002:THR:O	2:B:1003:ALA:C	2.55	0.45
3:C:114:TYR:HB3	3:C:140:ASN:O	2.17	0.45
4:D:130:LEU:HD13	4:D:142:LYS:HG3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:46:TYR:CE2	5:E:58:MET:HA	2.51	0.45
5:E:124:VAL:HG13	5:E:132:ILE:HB	1.97	0.45
5:E:147:HIS:O	5:E:148:GLU:C	2.55	0.45
5:E:202:SER:C	5:E:204:THR:H	2.19	0.45
7:G:20:PRO:HG2	7:G:21:ARG:H	1.81	0.45
1:A:12:ARG:HD2	2:B:1218:THR:CB	2.43	0.45
1:A:541:ILE:HG22	1:A:546:VAL:HG23	1.99	0.45
1:A:683:ILE:HG21	1:A:801:GLU:HG3	1.99	0.45
1:A:834:THR:HG21	1:A:1077:THR:CG2	2.46	0.45
1:A:850:VAL:HG21	1:A:1058:VAL:HG11	1.99	0.45
1:A:883:LEU:CD2	1:A:1021:LEU:HB2	2.46	0.45
1:A:902:LEU:HD11	1:A:923:LEU:CD2	2.44	0.45
1:A:1127:ASP:HB3	1:A:1130:GLN:HB3	1.99	0.45
2:B:211:VAL:O	2:B:211:VAL:HG12	2.16	0.45
2:B:234:ILE:CG2	2:B:235:SER:N	2.79	0.45
2:B:515:HIS:CD2	2:B:516:ASN:H	2.34	0.45
2:B:611:PRO:HB3	2:B:685:LEU:CD1	2.47	0.45
2:B:638:PHE:CA	2:B:690:VAL:HG22	2.23	0.45
2:B:755:ILE:O	2:B:755:ILE:HG22	2.17	0.45
2:B:995:ARG:HH12	3:C:165:LYS:HG2	1.82	0.45
2:B:1112:GLN:HG2	2:B:1113:VAL:H	1.81	0.45
2:B:1171:VAL:HA	2:B:1182:CYS:HB2	1.99	0.45
3:C:46:ILE:HG13	3:C:72:LEU:HD11	1.98	0.45
4:D:8:PHE:CD2	7:G:6:ASP:O	2.70	0.45
5:E:73:PRO:HB2	5:E:74:ASP:H	1.61	0.45
8:H:64:ASN:CB	8:H:88:SER:HB2	2.34	0.45
9:I:1:MET:CE	9:I:4:PHE:HB3	2.46	0.45
9:I:1:MET:HE1	9:I:4:PHE:HD2	1.82	0.45
1:A:76:GLU:O	1:A:78:PRO:CD	2.65	0.45
1:A:270:LEU:O	1:A:273:ASN:HB3	2.17	0.45
1:A:332:LYS:CG	1:A:333:GLU:HG2	2.46	0.45
1:A:600:PRO:HA	8:H:25:ARG:NH2	2.31	0.45
1:A:722:LEU:H	1:A:722:LEU:HD12	1.82	0.45
1:A:744:LYS:HG2	1:A:748:MET:HE2	1.97	0.45
1:A:767:GLN:NE2	1:A:774:ARG:HB2	2.32	0.45
1:A:1259:MET:HA	1:A:1262:LYS:HG3	1.98	0.45
2:B:128:LEU:HB2	2:B:167:ILE:O	2.17	0.45
2:B:653:VAL:HG22	2:B:689:LEU:HD22	1.99	0.45
2:B:899:ILE:HG23	2:B:903:VAL:HG21	1.97	0.45
3:C:65:HIS:O	3:C:69:LEU:HD13	2.17	0.45
4:D:7:THR:HB	7:G:42:PHE:CE2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:41:GLN:OE1	4:D:41:GLN:HA	2.17	0.45
4:D:55:ALA:HB3	4:D:148:LEU:HD11	1.98	0.45
4:D:119:ARG:CG	4:D:221:TYR:HE2	2.29	0.45
7:G:115:MET:SD	7:G:119:LEU:HD23	2.56	0.45
8:H:5:LEU:CD1	8:H:135:LEU:HD12	2.47	0.45
13:T:20:DG:H2"	13:T:21:DC:H5'	1.99	0.45
1:A:40:THR:HB	1:A:41:MET:HE3	1.97	0.45
1:A:106:VAL:HG12	1:A:107:CYS:N	2.32	0.45
1:A:162:VAL:HG12	1:A:163:SER:N	2.32	0.45
1:A:225:ASN:HD22	1:A:228:PHE:H	1.56	0.45
1:A:507:VAL:N	1:A:508:PRO:CD	2.79	0.45
1:A:567:LYS:HE2	8:H:46:LEU:O	2.17	0.45
1:A:880:LYS:HA	1:A:954:TRP:O	2.17	0.45
1:A:896:ARG:HH21	1:A:1030:ARG:CZ	2.29	0.45
1:A:1100:ARG:O	1:A:1104:ILE:HG13	2.17	0.45
1:A:1237:ILE:CG2	1:A:1238:ILE:H	2.30	0.45
1:A:1293:SER:HB2	1:A:1299:VAL:CG2	2.47	0.45
1:A:1377:THR:O	1:A:1378:GLN:C	2.55	0.45
1:A:1395:GLY:HA3	1:A:1419:ASP:OD2	2.16	0.45
2:B:953:LEU:HD23	2:B:953:LEU:H	1.81	0.45
3:C:239:PRO:O	3:C:241:ASP:N	2.50	0.45
5:E:90:VAL:O	5:E:93:MET:HB3	2.17	0.45
5:E:186:LEU:O	5:E:187:TYR:C	2.55	0.45
6:F:99:LEU:HD21	7:G:64:THR:O	2.16	0.45
11:K:78:THR:O	11:K:79:GLU:O	2.35	0.45
12:L:52:GLY:O	12:L:54:ARG:N	2.50	0.45
1:A:52:GLY:C	1:A:56:PRO:HG2	2.37	0.44
1:A:153:PRO:HA	1:A:161:LEU:HA	1.99	0.44
1:A:326:ARG:CG	1:A:327:ALA:N	2.78	0.44
1:A:464:PRO:HG2	1:A:465:TYR:CD1	2.52	0.44
1:A:755:PHE:HA	1:A:758:ILE:HD12	1.98	0.44
1:A:932:GLU:O	1:A:936:LEU:HG	2.17	0.44
1:A:942:PHE:C	1:A:942:PHE:CD2	2.91	0.44
1:A:946:VAL:C	1:A:947:PHE:HD1	2.20	0.44
1:A:1152:ILE:CG2	1:A:1193:LEU:HD13	2.46	0.44
1:A:1325:THR:OG1	5:E:146:HIS:O	2.33	0.44
1:A:1339:LEU:O	5:E:183:PRO:HB2	2.16	0.44
2:B:116:GLU:C	2:B:118:ARG:N	2.71	0.44
2:B:313:MET:CE	2:B:386:LEU:HD22	2.47	0.44
2:B:344:LYS:O	2:B:345:LYS:O	2.34	0.44
2:B:461:LEU:CD1	2:B:461:LEU:N	2.80	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1034:VAL:C	2:B:1036:ALA:N	2.71	0.44
2:B:1150:ARG:HG3	2:B:1150:ARG:NH1	2.18	0.44
3:C:38:ILE:H	3:C:38:ILE:HG13	1.44	0.44
5:E:23:VAL:HB	5:E:30:ILE:HD11	1.99	0.44
5:E:78:LEU:HD21	5:E:80:VAL:HG23	1.98	0.44
7:G:154:VAL:HG12	7:G:155:SER:N	2.32	0.44
8:H:38:LEU:HD13	8:H:125:LEU:HD13	1.99	0.44
8:H:64:ASN:HA	8:H:90:ALA:HB2	1.99	0.44
1:A:18:GLN:CB	2:B:1215:ARG:HB2	2.47	0.44
1:A:75:ASN:O	1:A:76:GLU:HB2	2.17	0.44
1:A:202:LEU:HD13	1:A:207:ILE:HD11	1.99	0.44
1:A:1161:THR:CG2	1:A:1163:ILE:HG13	2.45	0.44
2:B:460:ALA:HB1	2:B:466:TRP:CE3	2.53	0.44
2:B:649:LYS:HD3	2:B:736:THR:O	2.16	0.44
2:B:846:ILE:CG2	2:B:974:PRO:HG2	2.47	0.44
2:B:1050:ILE:HG22	2:B:1051:THR:N	2.33	0.44
3:C:99:LEU:HD23	3:C:99:LEU:N	2.31	0.44
4:D:39:ASN:HD22	4:D:41:GLN:HB2	1.82	0.44
6:F:79:ARG:HH11	6:F:79:ARG:CG	2.28	0.44
7:G:145:VAL:HG12	7:G:146:LYS:H	1.81	0.44
8:H:100:THR:CB	8:H:138:GLU:HG3	2.47	0.44
9:I:55:THR:HG23	9:I:86:PHE:CZ	2.52	0.44
11:K:90:ALA:O	11:K:93:SER:HB3	2.17	0.44
1:A:332:LYS:CB	1:A:337:ARG:HD2	2.47	0.44
1:A:478:TYR:O	1:A:479:ASN:CB	2.65	0.44
1:A:630:ILE:CD1	1:A:646:PHE:CZ	2.99	0.44
1:A:637:LYS:HG3	1:A:641:VAL:HG11	1.98	0.44
1:A:754:SER:O	1:A:755:PHE:C	2.55	0.44
1:A:874:ASP:O	1:A:876:ALA:N	2.51	0.44
2:B:306:ASN:C	2:B:308:TRP:H	2.21	0.44
2:B:601:ARG:C	2:B:603:LEU:N	2.70	0.44
2:B:830:TYR:CE2	2:B:1000:PRO:CD	2.97	0.44
2:B:1152:MET:C	2:B:1157:ALA:HB2	2.38	0.44
3:C:112:ASN:HB3	3:C:114:TYR:CE1	2.52	0.44
3:C:138:GLU:OE1	3:C:138:GLU:N	2.50	0.44
5:E:10:SER:O	5:E:13:TRP:HB3	2.17	0.44
8:H:64:ASN:ND2	8:H:88:SER:C	2.71	0.44
8:H:106:GLU:O	8:H:108:SER:N	2.50	0.44
9:I:4:PHE:HD1	9:I:5:ARG:N	2.15	0.44
10:J:9:SER:CB	10:J:45:CYS:HB2	2.47	0.44
13:T:8:DT:H2"	13:T:9:DC:OP2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:54:ASN:C	1:A:56:PRO:HD3	2.38	0.44
1:A:293:GLU:O	1:A:296:LEU:N	2.48	0.44
1:A:682:THR:HG23	1:A:728:LYS:HE3	1.98	0.44
1:A:784:LEU:HB3	1:A:785:PRO:HD2	1.99	0.44
1:A:1072:ILE:HG23	1:A:1356:ILE:HD11	1.99	0.44
1:A:1095:THR:HG22	1:A:1100:ARG:HB2	2.00	0.44
1:A:1197:LEU:HD11	1:A:1238:ILE:HD11	1.99	0.44
1:A:1239:ARG:HB3	1:A:1239:ARG:NH1	2.32	0.44
1:A:1244:ARG:CB	1:A:1245:PRO:CA	2.86	0.44
2:B:269:ILE:HD11	2:B:386:LEU:HD21	1.97	0.44
2:B:451:LYS:O	2:B:455:SER:OG	2.32	0.44
2:B:834:ASN:HA	2:B:839:MET:HA	1.98	0.44
2:B:953:LEU:HD23	2:B:953:LEU:N	2.33	0.44
2:B:1045:SER:O	2:B:1046:PRO:O	2.36	0.44
4:D:7:THR:HB	7:G:42:PHE:HE2	1.83	0.44
14:N:3:DT:H3'	14:N:3:DT:OP2	2.17	0.44
1:A:22:PHE:CE1	2:B:1213:THR:HG22	2.52	0.44
1:A:244:PRO:HB2	1:A:245:PRO:HD3	1.98	0.44
1:A:278:THR:O	1:A:278:THR:HG22	2.17	0.44
1:A:299:HIS:C	1:A:301:ALA:N	2.71	0.44
1:A:630:ILE:CG2	1:A:631:HIS:N	2.80	0.44
1:A:645:LEU:CG	1:A:649:ILE:HD11	2.48	0.44
1:A:1018:PHE:O	1:A:1021:LEU:HB3	2.16	0.44
1:A:1159:ARG:O	1:A:1160:SER:HB3	2.17	0.44
1:A:1278:ASN:HD22	1:A:1312:ASN:HB2	1.81	0.44
1:A:1289:ARG:NH1	1:A:1326:ARG:NH1	2.65	0.44
2:B:797:TYR:CE1	2:B:971:THR:HG23	2.53	0.44
2:B:801:LYS:HD2	2:B:815:ARG:HB3	1.99	0.44
2:B:877:PRO:HB2	2:B:934:LYS:HD2	2.00	0.44
2:B:997:GLU:HB3	3:C:35:ARG:NH1	2.32	0.44
2:B:1115:THR:CG2	2:B:1117:GLN:HG3	2.42	0.44
3:C:20:PHE:CZ	3:C:230:MET:HB2	2.53	0.44
3:C:77:ILE:C	3:C:79:GLN:H	2.21	0.44
3:C:172:PRO:CD	3:C:173:ALA:H	2.31	0.44
4:D:18:VAL:O	4:D:19:GLU:CB	2.58	0.44
4:D:60:LYS:HE3	4:D:126:ILE:HD11	1.99	0.44
4:D:145:MET:O	4:D:149:THR:N	2.50	0.44
4:D:166:LEU:HD11	4:D:210:ILE:HG23	1.99	0.44
9:I:1:MET:HE1	9:I:4:PHE:CD2	2.53	0.44
10:J:56:LEU:O	10:J:57:ILE:C	2.54	0.44
13:T:11:DA:C2	13:T:12:DG:C4	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:275:SER:O	1:A:279:LEU:HG	2.17	0.44
1:A:341:MET:CE	2:B:1135:ARG:NH1	2.80	0.44
1:A:1259:MET:HG3	1:A:1262:LYS:CE	2.48	0.44
1:A:1364:ASN:O	1:A:1365:TYR:C	2.56	0.44
1:A:1398:MET:O	1:A:1400:CYS:N	2.50	0.44
2:B:20:ASP:C	2:B:22:SER:N	2.68	0.44
2:B:496:ARG:HD2	2:B:751:VAL:HG23	2.00	0.44
2:B:684:LEU:HD23	2:B:689:LEU:HD12	1.99	0.44
2:B:705:MET:CE	2:B:742:GLU:HG2	2.48	0.44
3:C:235:VAL:HG11	10:J:6:ARG:NH2	2.32	0.44
9:I:105:SER:O	9:I:106:CYS:CB	2.59	0.44
13:T:25:DG:H2"	13:T:26:DT:H5'	1.99	0.44
1:A:54:ASN:CB	1:A:247:ARG:HH22	2.31	0.44
1:A:72:GLU:HB3	1:A:76:GLU:CG	2.45	0.44
1:A:101:LYS:HA	1:A:104:GLU:OE1	2.17	0.44
1:A:230:ARG:O	1:A:233:TRP:N	2.51	0.44
1:A:442:VAL:CG2	1:A:460:VAL:HG23	2.48	0.44
1:A:682:THR:HG22	1:A:728:LYS:HE3	1.98	0.44
1:A:1127:ASP:CB	1:A:1130:GLN:HB2	2.47	0.44
1:A:1271:ILE:O	1:A:1271:ILE:HG22	2.16	0.44
1:A:1272:THR:HG22	1:A:1273:LEU:N	2.32	0.44
2:B:189:LEU:O	2:B:192:LEU:N	2.50	0.44
2:B:213:ILE:HD11	2:B:497:ARG:CA	2.48	0.44
2:B:348:ARG:O	2:B:351:TYR:HB3	2.18	0.44
2:B:357:GLN:HG2	2:B:366:GLN:O	2.17	0.44
2:B:388:CYS:C	2:B:390:LEU:H	2.21	0.44
2:B:616:ILE:HD12	2:B:625:LYS:HB2	1.99	0.44
2:B:870:ILE:CG2	2:B:917:PRO:HG2	2.48	0.44
3:C:67:LEU:HD11	3:C:155:LEU:CD1	2.47	0.44
4:D:126:ILE:HD13	4:D:145:MET:HE3	2.00	0.44
5:E:50:MET:N	5:E:50:MET:HE2	2.32	0.44
5:E:154:ILE:HG22	5:E:155:ARG:O	2.17	0.44
7:G:17:PHE:O	7:G:19:GLY:N	2.44	0.44
9:I:69:PRO:HG2	9:I:85:PHE:CE2	2.52	0.44
1:A:40:THR:CG2	1:A:41:MET:HE2	2.48	0.44
1:A:208:LEU:HD21	1:A:212:LYS:HE3	1.99	0.44
1:A:407:ARG:HB3	1:A:430:TRP:CZ2	2.53	0.44
1:A:914:GLU:C	1:A:916:GLY:H	2.22	0.44
1:A:1115:SER:O	1:A:1116:LEU:CB	2.65	0.44
1:A:1138:ILE:C	1:A:1275:GLY:HA2	2.37	0.44
1:A:1170:ILE:HG13	1:A:1170:ILE:H	1.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1291:VAL:HG13	1:A:1292:PRO:N	2.33	0.44
2:B:266:ALA:C	2:B:268:THR:H	2.18	0.44
2:B:305:VAL:O	2:B:305:VAL:HG12	2.18	0.44
2:B:803:LEU:CD1	2:B:1032:SER:HB3	2.48	0.44
2:B:1004:GLU:HB2	2:B:1006:ILE:HG12	1.98	0.44
3:C:67:LEU:HD23	3:C:70:ILE:CD1	2.47	0.44
3:C:87:PHE:N	3:C:87:PHE:CD1	2.85	0.44
5:E:95:THR:O	5:E:99:HIS:HB2	2.17	0.44
5:E:121:MET:O	5:E:124:VAL:HG23	2.18	0.44
6:F:84:TYR:CD2	6:F:152:ILE:HB	2.52	0.44
6:F:114:GLU:HA	6:F:114:GLU:OE2	2.18	0.44
6:F:116:ASP:HB3	6:F:119:ARG:HB2	2.00	0.44
7:G:27:LYS:O	7:G:31:LEU:HG	2.17	0.44
8:H:84:ALA:HA	8:H:87:ARG:HG3	2.00	0.44
8:H:100:THR:CG2	8:H:101:ALA:N	2.80	0.44
10:J:27:GLU:C	10:J:29:GLU:N	2.71	0.44
11:K:1:MET:HG3	11:K:2:ASN:N	2.33	0.44
12:L:34:CYS:O	12:L:35:SER:C	2.55	0.44
12:L:38:LEU:O	12:L:39:SER:HB3	2.18	0.44
1:A:23:SER:HA	1:A:233:TRP:CD1	2.53	0.44
1:A:64:ASN:O	1:A:65:LEU:C	2.55	0.44
1:A:157:ASP:C	1:A:159:THR:N	2.71	0.44
1:A:552:TRP:HE1	11:K:62:LYS:HB2	1.83	0.44
1:A:577:ILE:HA	1:A:580:VAL:HG23	1.99	0.44
1:A:767:GLN:HE21	1:A:774:ARG:CB	2.31	0.44
1:A:853:ASP:OD1	1:A:855:THR:CB	2.66	0.44
1:A:1021:LEU:O	1:A:1024:SER:HB3	2.18	0.44
1:A:1436:ILE:O	1:A:1437:GLY:C	2.56	0.44
2:B:186:GLU:HA	2:B:186:GLU:OE2	2.17	0.44
2:B:361:LEU:O	2:B:363:HIS:O	2.36	0.44
2:B:737:THR:HG22	9:I:66:PRO:HA	2.00	0.44
3:C:184:ASN:HD21	3:C:187:LYS:HA	1.79	0.44
3:C:215:GLU:O	3:C:217:ASP:N	2.50	0.44
4:D:155:ARG:HH11	4:D:155:ARG:CG	2.28	0.44
5:E:177:ARG:C	5:E:212:ARG:HD3	2.38	0.44
6:F:94:LEU:HD21	6:F:122:MET:HA	2.00	0.44
10:J:37:SER:OG	10:J:47:ARG:NH2	2.49	0.44
12:L:61:THR:HG22	12:L:62:LYS:N	2.33	0.44
1:A:22:PHE:HE2	1:A:30:ILE:CD1	2.31	0.43
1:A:339:ASN:O	1:A:343:LYS:HG2	2.17	0.43
1:A:456:MET:HB2	1:A:478:TYR:OH	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:606:LEU:CG	1:A:613:ILE:HD12	2.47	0.43
1:A:817:ALA:O	1:A:819:GLY:N	2.50	0.43
1:A:1220:PHE:O	1:A:1221:LYS:CB	2.65	0.43
1:A:1230:GLU:C	1:A:1232:ASN:N	2.71	0.43
2:B:758:PHE:HB3	2:B:761:HIS:CD2	2.53	0.43
2:B:843:GLN:HB3	2:B:995:ARG:HG3	2.00	0.43
2:B:854:LEU:HB3	2:B:855:PHE:H	1.70	0.43
2:B:999:MET:CG	2:B:1000:PRO:HD2	2.24	0.43
4:D:191:ALA:C	4:D:193:THR:H	2.21	0.43
4:D:218:GLU:O	4:D:219:THR:C	2.56	0.43
6:F:72:LYS:HB3	6:F:73:ALA:H	1.53	0.43
7:G:115:MET:HB2	7:G:116:PRO:CD	2.43	0.43
8:H:42:ILE:HG22	8:H:44:VAL:CG2	2.48	0.43
8:H:64:ASN:OD1	8:H:90:ALA:N	2.35	0.43
1:A:133:LYS:O	1:A:136:ALA:HB3	2.18	0.43
1:A:332:LYS:O	1:A:333:GLU:HB2	2.17	0.43
1:A:899:VAL:CG2	1:A:908:LEU:HD21	2.48	0.43
1:A:1164:PRO:C	1:A:1166:ASP:N	2.71	0.43
1:A:1164:PRO:O	1:A:1166:ASP:N	2.51	0.43
2:B:39:ARG:CZ	2:B:665:GLU:HG2	2.49	0.43
2:B:68:THR:HG22	2:B:69:LEU:N	2.32	0.43
2:B:258:LEU:HB2	2:B:385:LEU:HD21	2.00	0.43
2:B:270:LYS:HG2	2:B:281:PRO:HA	2.00	0.43
2:B:416:LEU:HD11	2:B:466:TRP:CE2	2.53	0.43
2:B:436:VAL:O	2:B:436:VAL:HG12	2.17	0.43
2:B:1084:GLN:NE2	2:B:1084:GLN:H	2.13	0.43
3:C:58:LEU:HD22	3:C:58:LEU:H	1.78	0.43
3:C:123:ASN:ND2	3:C:125:MET:HA	2.32	0.43
3:C:220:ASP:OD1	3:C:223:ALA:N	2.51	0.43
4:D:39:ASN:O	4:D:42:GLY:N	2.50	0.43
7:G:127:PRO:HB3	7:G:139:ILE:HD11	2.00	0.43
9:I:7:CYS:C	9:I:8:ARG:O	2.56	0.43
11:K:88:LYS:O	11:K:91:CYS:HB2	2.18	0.43
1:A:116:ASP:O	1:A:118:HIS:N	2.52	0.43
1:A:179:LEU:HD13	1:A:297:GLN:HG3	2.00	0.43
1:A:184:SER:HB3	1:A:199:LEU:CD2	2.47	0.43
1:A:239:LEU:HA	1:A:240:PRO:HD2	1.86	0.43
1:A:402:ALA:CB	1:A:434:ARG:HA	2.49	0.43
1:A:445:ASN:HB2	1:A:454:SER:O	2.19	0.43
1:A:453:MET:HE3	1:A:513:SER:HB2	2.01	0.43
1:A:556:TRP:CZ3	1:A:558:GLY:HA2	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:682:THR:HG22	1:A:682:THR:O	2.18	0.43
1:A:858:ASN:C	1:A:858:ASN:ND2	2.72	0.43
1:A:947:PHE:HE2	1:A:954:TRP:CD1	2.36	0.43
1:A:1430:LEU:CB	1:A:1432:GLN:HG3	2.48	0.43
2:B:204:ILE:C	2:B:205:ILE:HD12	2.39	0.43
2:B:370:PHE:HE2	2:B:373:ARG:NH1	2.16	0.43
2:B:766:ARG:HA	2:B:769:TYR:HD2	1.82	0.43
4:D:37:GLN:OE1	7:G:5:LYS:HD2	2.18	0.43
5:E:7:ARG:HD2	5:E:7:ARG:C	2.38	0.43
5:E:178:ILE:HG22	5:E:212:ARG:HB3	2.01	0.43
7:G:13:LEU:HD22	7:G:14:HIS:O	2.17	0.43
1:A:55:ASP:N	1:A:56:PRO:CD	2.80	0.43
1:A:107:CYS:SG	1:A:148:CYS:HB2	2.58	0.43
1:A:295:LEU:O	1:A:298:PHE:HB3	2.18	0.43
1:A:727:ASP:O	1:A:730:GLY:N	2.51	0.43
1:A:941:LYS:O	1:A:945:GLU:HB2	2.18	0.43
1:A:1130:GLN:HE21	1:A:1134:ILE:HD11	1.83	0.43
2:B:510:LYS:CB	2:B:511:PRO:CD	2.96	0.43
2:B:572:HIS:O	2:B:573:GLN:C	2.56	0.43
2:B:597:MET:HA	2:B:597:MET:HE2	1.99	0.43
2:B:889:THR:HG22	2:B:891:ASP:HB2	2.01	0.43
2:B:1002:THR:O	2:B:1004:GLU:N	2.52	0.43
2:B:1099:VAL:O	2:B:1101:ASP:N	2.52	0.43
3:C:22:LEU:HD23	3:C:23:SER:N	2.34	0.43
3:C:46:ILE:HD12	3:C:67:LEU:O	2.17	0.43
4:D:56:ARG:HH21	4:D:155:ARG:HA	1.83	0.43
4:D:170:THR:HG22	4:D:172:LEU:HG	2.00	0.43
5:E:11:ARG:C	5:E:13:TRP:N	2.70	0.43
5:E:173:SER:C	5:E:175:LEU:H	2.21	0.43
7:G:18:PHE:HA	7:G:22:MET:HE2	2.00	0.43
8:H:118:PHE:C	8:H:120:GLY:N	2.72	0.43
13:T:11:DA:C2	13:T:12:DG:C5	3.06	0.43
1:A:87:ALA:CB	1:A:276:LEU:HD23	2.43	0.43
1:A:298:PHE:HZ	1:A:314:ALA:HB2	1.82	0.43
1:A:492:PRO:HB3	1:A:501:LEU:CD1	2.49	0.43
1:A:515:GLN:HB2	1:A:1071:SER:HB3	2.00	0.43
1:A:645:LEU:HG	1:A:649:ILE:CD1	2.48	0.43
1:A:664:THR:CG2	1:A:665:GLY:N	2.81	0.43
1:A:728:LYS:O	1:A:732:LEU:HG	2.19	0.43
1:A:853:ASP:OD1	1:A:855:THR:HB	2.18	0.43
1:A:1161:THR:HG22	1:A:1163:ILE:N	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1293:SER:OG	1:A:1294:PRO:HD2	2.19	0.43
1:A:1341:ILE:C	1:A:1344:GLY:H	2.22	0.43
1:A:1376:THR:O	1:A:1377:THR:C	2.57	0.43
2:B:44:VAL:CG2	2:B:48:LEU:HD11	2.49	0.43
2:B:49:ASP:HA	2:B:52:ASN:HD22	1.84	0.43
2:B:401:PHE:HA	2:B:404:LYS:HG3	2.00	0.43
2:B:687:GLU:O	2:B:688:GLY:C	2.55	0.43
2:B:811:TYR:N	2:B:811:TYR:HD1	2.13	0.43
2:B:830:TYR:CZ	2:B:1000:PRO:HB3	2.53	0.43
2:B:854:LEU:O	2:B:855:PHE:CB	2.63	0.43
2:B:950:ASP:O	2:B:951:GLN:CB	2.66	0.43
3:C:27:LEU:HD11	3:C:178:PHE:CE2	2.54	0.43
3:C:212:PRO:CB	3:C:213:PRO:HD2	2.48	0.43
4:D:39:ASN:ND2	4:D:41:GLN:HB2	2.34	0.43
4:D:120:GLU:HA	4:D:123:LEU:HD12	2.00	0.43
5:E:151:PRO:HB3	5:E:200:ARG:HB3	2.00	0.43
5:E:196:VAL:HG12	5:E:197:LYS:N	2.33	0.43
6:F:81:THR:HB	6:F:136:ARG:HH11	1.84	0.43
6:F:105:ALA:HB1	6:F:106:PRO:CD	2.49	0.43
8:H:40:LEU:HD13	8:H:123:MET:CE	2.48	0.43
8:H:127:GLY:O	8:H:128:ASN:CB	2.66	0.43
9:I:74:GLU:O	9:I:74:GLU:HG3	2.18	0.43
12:L:32:ALA:H	12:L:55:ILE:CG1	2.32	0.43
13:T:12:DG:N2	14:N:6:DT:C2	2.87	0.43
13:T:15:DC:H2"	13:T:16:DT:C6	2.53	0.43
1:A:206:GLU:O	1:A:210:ILE:HG13	2.19	0.43
1:A:262:LEU:CD2	1:A:303:TYR:CE1	3.00	0.43
1:A:441:PRO:HD2	1:A:498:ARG:CZ	2.48	0.43
1:A:744:LYS:HG2	1:A:748:MET:SD	2.58	0.43
1:A:1213:GLY:HA2	1:A:1216:ILE:HD12	2.01	0.43
2:B:69:LEU:HD11	2:B:425:THR:HG22	2.00	0.43
2:B:502:ILE:HG22	2:B:507:LYS:HB2	2.01	0.43
2:B:558:LEU:HD21	2:B:600:LEU:HD11	2.00	0.43
2:B:639:ILE:CD1	2:B:691:GLU:HG3	2.41	0.43
2:B:762:ASN:ND2	2:B:1024:ALA:HB3	2.34	0.43
2:B:876:LYS:HD2	2:B:893:LEU:O	2.17	0.43
3:C:269:LYS:O	3:C:270:VAL:HG22	2.18	0.43
4:D:207:LEU:HA	4:D:210:ILE:HD12	2.01	0.43
9:I:13:MET:HG3	9:I:14:LEU:N	2.33	0.43
9:I:68:LEU:HB3	9:I:84:VAL:HG23	2.00	0.43
12:L:38:LEU:HD11	12:L:49:LYS:HG2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:44:ASP:O	12:L:45:ALA:HB3	2.18	0.43
1:A:500:GLU:CD	2:B:1145:SER:HB2	2.39	0.43
1:A:1013:ASP:HB3	5:E:207:ARG:O	2.19	0.43
1:A:1168:GLU:O	1:A:1172:LEU:HG	2.19	0.43
1:A:1209:MET:O	1:A:1210:GLY:C	2.56	0.43
1:A:1402:PHE:CD1	1:A:1403:GLU:HG3	2.53	0.43
2:B:68:THR:CG2	2:B:69:LEU:N	2.82	0.43
2:B:335:GLY:O	2:B:339:THR:HG21	2.19	0.43
2:B:763:GLN:HG2	2:B:765:PRO:HD2	1.99	0.43
5:E:46:TYR:CD2	5:E:58:MET:HG2	2.54	0.43
5:E:198:ILE:HD12	5:E:198:ILE:H	1.83	0.43
7:G:35:GLU:OE2	7:G:48:VAL:HG23	2.19	0.43
8:H:5:LEU:O	8:H:133:ASN:HB3	2.19	0.43
8:H:82:PRO:CG	11:K:54:ARG:HD2	2.46	0.43
8:H:95:TYR:CE2	8:H:97:MET:HG3	2.53	0.43
10:J:14:VAL:CG1	10:J:50:ILE:HD11	2.49	0.43
1:A:244:PRO:CG	1:A:245:PRO:HD3	2.48	0.43
1:A:452:LYS:HG3	2:B:1140:ALA:HB1	1.99	0.43
1:A:489:LEU:HD12	1:A:490:HIS:N	2.33	0.43
1:A:525:GLN:OE1	2:B:836:GLU:HG2	2.19	0.43
1:A:784:LEU:HD11	1:A:815:PHE:CE2	2.54	0.43
1:A:942:PHE:C	1:A:942:PHE:HD2	2.22	0.43
1:A:1116:LEU:HA	1:A:1329:THR:HA	2.01	0.43
1:A:1120:LEU:HD12	1:A:1120:LEU:N	2.28	0.43
1:A:1213:GLY:HA2	1:A:1216:ILE:CD1	2.48	0.43
1:A:1434:ALA:HA	1:A:1435:PRO:HD3	1.89	0.43
2:B:378:LEU:CD1	2:B:382:ILE:HD11	2.49	0.43
2:B:483:LEU:HD11	2:B:491:THR:CG2	2.49	0.43
2:B:502:ILE:HG22	2:B:507:LYS:HG3	2.01	0.43
2:B:560:GLU:O	2:B:561:TRP:CD1	2.72	0.43
3:C:29:MET:HE2	11:K:98:LEU:HD23	2.01	0.43
3:C:190:ASP:O	3:C:191:TYR:C	2.57	0.43
4:D:60:LYS:NZ	4:D:122:GLU:OE2	2.52	0.43
5:E:89:GLY:C	5:E:91:LYS:H	2.21	0.43
6:F:82:THR:HA	6:F:83:PRO:HD3	1.66	0.43
6:F:93:ILE:HG23	6:F:132:LEU:HD12	2.00	0.43
6:F:108:PHE:CD2	6:F:108:PHE:N	2.85	0.43
9:I:98:VAL:HG12	9:I:99:LEU:H	1.84	0.43
11:K:43:GLY:HA3	11:K:61:TYR:HE1	1.84	0.43
14:N:8:DG:H2"	14:N:9:DA:OP2	2.18	0.43
1:A:57:ARG:O	1:A:68:GLN:HG3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:153:PRO:HB3	1:A:161:LEU:CD2	2.49	0.43
1:A:254:GLU:O	1:A:255:SER:OG	2.29	0.43
1:A:332:LYS:C	1:A:334:GLY:H	2.22	0.43
1:A:483:ASP:HB2	2:B:987:LYS:CB	2.49	0.43
1:A:541:ILE:HD13	1:A:549:MET:HE1	2.00	0.43
1:A:590:ARG:HG2	1:A:591:PHE:N	2.32	0.43
1:A:993:LEU:HD23	1:A:1022:LEU:HD21	2.01	0.43
1:A:1094:VAL:HG12	1:A:1113:THR:HG21	1.99	0.43
1:A:1348:LEU:HD23	1:A:1372:VAL:HG23	2.00	0.43
2:B:210:LYS:HG3	2:B:461:LEU:O	2.18	0.43
2:B:273:LEU:O	2:B:276:ILE:HB	2.19	0.43
2:B:293:PRO:HG2	2:B:296:GLU:CB	2.45	0.43
2:B:566:LEU:HD22	2:B:586:TRP:O	2.19	0.43
2:B:864:LYS:HG3	2:B:872:GLU:OE1	2.18	0.43
2:B:1181:GLU:H	2:B:1188:LYS:HG3	1.83	0.43
3:C:229:TYR:CD1	3:C:229:TYR:N	2.87	0.43
4:D:9:GLN:HE22	4:D:31:GLN:HB3	1.84	0.43
5:E:90:VAL:HG23	5:E:120:ALA:HA	2.01	0.43
5:E:155:ARG:O	5:E:156:LEU:HD23	2.19	0.43
6:F:74:ILE:HG22	6:F:75:PRO:N	2.33	0.43
6:F:138:LEU:HD22	6:F:139:PRO:HD2	2.00	0.43
9:I:55:THR:O	9:I:58:VAL:HG23	2.19	0.43
10:J:36:LEU:HD22	10:J:41:LEU:HD12	2.01	0.43
1:A:506:ALA:CB	1:A:508:PRO:HD2	2.49	0.43
1:A:531:ILE:N	1:A:653:VAL:HG11	2.34	0.43
1:A:540:PHE:CD1	1:A:540:PHE:N	2.87	0.43
1:A:586:ILE:HD11	1:A:633:VAL:HA	2.00	0.43
1:A:699:ALA:HB1	9:I:114:GLN:NE2	2.34	0.43
1:A:867:ILE:HD12	1:A:867:ILE:N	2.33	0.43
1:A:886:ILE:HG23	1:A:887:GLY:H	1.80	0.43
1:A:939:ASP:O	1:A:940:ARG:C	2.57	0.43
1:A:1341:ILE:CG2	1:A:1342:GLU:H	2.32	0.43
2:B:603:LEU:HB3	2:B:609:ILE:CD1	2.29	0.43
2:B:700:SER:O	2:B:701:ILE:HG22	2.18	0.43
2:B:816:GLU:N	2:B:816:GLU:OE1	2.49	0.43
3:C:31:ASN:O	3:C:32:SER:C	2.58	0.43
3:C:77:ILE:HA	3:C:129:ILE:HD11	2.01	0.43
3:C:174:ALA:O	3:C:175:ALA:CB	2.67	0.43
4:D:214:LEU:O	4:D:218:GLU:N	2.50	0.43
7:G:114:LEU:HD12	7:G:114:LEU:HA	1.90	0.43
9:I:88:SER:HB3	9:I:95:THR:HG21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:12:LEU:HD23	11:K:16:GLU:O	2.19	0.43
1:A:123:ARG:O	1:A:124:GLN:C	2.57	0.42
1:A:179:LEU:CD1	1:A:297:GLN:HG3	2.49	0.42
1:A:380:VAL:HG13	1:A:385:ILE:CD1	2.48	0.42
1:A:477:PRO:HG2	1:A:521:MET:HG2	2.00	0.42
1:A:730:GLY:O	1:A:731:ARG:C	2.56	0.42
1:A:811:GLN:O	1:A:812:GLU:C	2.57	0.42
1:A:1202:MET:HE1	1:A:1207:LEU:HB3	2.00	0.42
1:A:1303:GLU:HG3	1:A:1303:GLU:O	2.19	0.42
1:A:1453:TYR:O	1:A:1454:MET:HB3	2.19	0.42
2:B:35:SER:HA	2:B:811:TYR:HE2	1.84	0.42
2:B:459:TYR:CE1	2:B:469:GLN:HB3	2.54	0.42
2:B:469:GLN:CG	2:B:470:LYS:N	2.80	0.42
2:B:498:THR:N	2:B:537:LYS:O	2.52	0.42
2:B:727:LYS:HE2	2:B:1049:ASP:OD1	2.20	0.42
2:B:731:VAL:HG12	2:B:732:SER:N	2.33	0.42
2:B:758:PHE:HZ	2:B:1031:LEU:HD22	1.84	0.42
2:B:797:TYR:O	10:J:1:MET:HG2	2.19	0.42
2:B:888:GLY:O	2:B:889:THR:C	2.56	0.42
2:B:1070:GLU:OE1	10:J:44:TYR:OH	2.36	0.42
2:B:1162:ILE:HG22	2:B:1163:CYS:N	2.33	0.42
3:C:24:ASN:CA	3:C:226:ASP:HB3	2.47	0.42
3:C:55:THR:O	3:C:55:THR:HG22	2.19	0.42
3:C:124:LEU:CD2	3:C:129:ILE:O	2.68	0.42
4:D:39:ASN:ND2	4:D:41:GLN:CG	2.82	0.42
4:D:153:ARG:NH2	4:D:184:ALA:HA	2.34	0.42
4:D:219:THR:HG22	4:D:220:LEU:O	2.19	0.42
5:E:136:ASN:OD1	5:E:138:ALA:N	2.52	0.42
7:G:38:CYS:HA	7:G:43:GLY:O	2.19	0.42
7:G:62:LEU:CB	7:G:63:PRO:CD	2.91	0.42
8:H:10:PHE:CD1	8:H:10:PHE:N	2.87	0.42
1:A:53:LEU:HD23	1:A:54:ASN:CB	2.46	0.42
1:A:293:GLU:O	1:A:295:LEU:N	2.52	0.42
1:A:335:ARG:HA	1:A:339:ASN:ND2	2.32	0.42
1:A:353:ILE:O	1:A:353:ILE:HG13	2.19	0.42
1:A:373:THR:HG21	2:B:1105:ALA:HB3	2.00	0.42
1:A:751:SER:O	1:A:752:LYS:CG	2.65	0.42
1:A:864:ILE:HG21	1:A:1374:VAL:HG22	2.02	0.42
1:A:1100:ARG:O	1:A:1100:ARG:HD2	2.19	0.42
1:A:1135:ARG:C	1:A:1137:ALA:H	2.22	0.42
1:A:1140:HIS:CA	1:A:1275:GLY:HA3	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1166:ASP:OD2	1:A:1239:ARG:NE	2.45	0.42
1:A:1376:THR:HG23	1:A:1377:THR:H	1.85	0.42
2:B:332:ASP:C	2:B:334:ILE:H	2.22	0.42
2:B:351:TYR:CD1	2:B:355:ILE:HD11	2.54	0.42
2:B:654:ARG:C	2:B:656:GLY:N	2.71	0.42
2:B:882:THR:HG21	2:B:935:ARG:CA	2.40	0.42
2:B:891:ASP:C	2:B:893:LEU:N	2.72	0.42
3:C:58:LEU:HD12	3:C:62:PHE:CD1	2.54	0.42
4:D:119:ARG:HG3	4:D:221:TYR:HE2	1.84	0.42
5:E:31:THR:OG1	5:E:34:GLU:N	2.35	0.42
5:E:154:ILE:O	5:E:196:VAL:HA	2.20	0.42
6:F:75:PRO:C	6:F:77:ASP:N	2.70	0.42
6:F:116:ASP:OD1	6:F:118:LEU:N	2.52	0.42
7:G:111:THR:HG22	7:G:113:HIS:H	1.84	0.42
8:H:143:LEU:HD12	8:H:143:LEU:N	2.34	0.42
9:I:55:THR:HG22	9:I:55:THR:O	2.20	0.42
9:I:55:THR:O	9:I:56:ALA:C	2.58	0.42
9:I:86:PHE:HE1	9:I:100:PHE:HB2	1.84	0.42
1:A:12:ARG:HD2	2:B:1218:THR:CG2	2.48	0.42
1:A:25:GLU:O	1:A:28:ARG:N	2.52	0.42
1:A:705:LYS:O	1:A:706:HIS:C	2.57	0.42
1:A:722:LEU:HD12	1:A:722:LEU:N	2.33	0.42
1:A:781:ASP:HB3	1:A:790:ASP:H	1.83	0.42
1:A:814:PHE:O	1:A:817:ALA:HB3	2.20	0.42
1:A:1400:CYS:O	1:A:1405:THR:HA	2.19	0.42
1:A:1409:LEU:O	1:A:1412:ALA:HB3	2.19	0.42
2:B:420:LEU:O	2:B:423:LYS:N	2.48	0.42
2:B:824:ILE:HG12	10:J:48:ARG:HH12	1.84	0.42
2:B:893:LEU:HD22	2:B:897:GLY:O	2.20	0.42
2:B:1065:GLN:HG3	2:B:1067:ARG:N	2.31	0.42
3:C:69:LEU:N	3:C:69:LEU:CD1	2.81	0.42
3:C:86:CYS:SG	3:C:87:PHE:N	2.92	0.42
3:C:131:HIS:HA	3:C:132:PRO:HD3	1.76	0.42
3:C:136:ASP:CB	3:C:141:GLY:H	2.32	0.42
6:F:71:GLU:O	6:F:72:LYS:C	2.57	0.42
6:F:74:ILE:HG22	6:F:75:PRO:O	2.19	0.42
6:F:82:THR:HG23	6:F:83:PRO:HD2	2.01	0.42
7:G:145:VAL:CG1	7:G:146:LYS:N	2.81	0.42
8:H:58:THR:C	8:H:59:ILE:HG13	2.40	0.42
12:L:36:SER:O	12:L:37:LYS:O	2.37	0.42
12:L:58:LYS:O	12:L:59:ALA:O	2.37	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:T:16:DT:H2"	13:T:17:DT:C5'	2.37	0.42
1:A:38:PRO:CD	1:A:39:GLU:H	2.32	0.42
1:A:90:VAL:HG13	1:A:297:GLN:HA	2.01	0.42
1:A:398:GLU:O	1:A:399:HIS:C	2.57	0.42
1:A:567:LYS:CG	8:H:94:ASP:O	2.64	0.42
1:A:578:LEU:HD23	1:A:612:ILE:CD1	2.50	0.42
1:A:692:ASP:C	1:A:694:THR:H	2.21	0.42
1:A:709:THR:HG22	1:A:710:LEU:H	1.84	0.42
1:A:1243:VAL:HG22	1:A:1244:ARG:N	2.34	0.42
1:A:1369:ALA:HA	1:A:1372:VAL:HG12	2.01	0.42
1:A:1450:LEU:HD11	7:G:18:PHE:O	2.18	0.42
2:B:205:ILE:O	2:B:206:ASN:C	2.57	0.42
2:B:298:LEU:N	2:B:298:LEU:CD2	2.82	0.42
2:B:449:ASN:C	2:B:451:LYS:N	2.70	0.42
2:B:700:SER:O	2:B:701:ILE:CG2	2.68	0.42
2:B:766:ARG:NH2	15:P:11:U:H3	2.17	0.42
2:B:828:ALA:HB2	2:B:1085:ILE:HG23	2.02	0.42
2:B:880:THR:O	2:B:881:ASN:HB2	2.20	0.42
2:B:955:THR:HG23	2:B:956:THR:N	2.33	0.42
2:B:975:GLN:HG2	2:B:976:ILE:H	1.84	0.42
4:D:208:GLU:O	4:D:209:ARG:C	2.58	0.42
6:F:108:PHE:CE1	6:F:131:PRO:HG3	2.54	0.42
6:F:150:GLU:O	6:F:151:LEU:C	2.57	0.42
7:G:1:MET:O	7:G:2:PHE:O	2.36	0.42
7:G:45:ILE:HD13	7:G:78:VAL:HG11	2.01	0.42
14:N:4:DA:H2"	14:N:5:DC:C5	2.54	0.42
1:A:96:ILE:HG22	1:A:97:ALA:N	2.34	0.42
1:A:222:LEU:HB3	1:A:223:GLY:H	1.72	0.42
1:A:862:ASN:HA	5:E:174:GLN:HB3	2.01	0.42
1:A:971:PHE:C	1:A:973:ILE:N	2.72	0.42
1:A:1019:CYS:HA	1:A:1022:LEU:HB3	2.02	0.42
1:A:1054:LEU:HD13	6:F:84:TYR:OH	2.19	0.42
1:A:1121:GLU:O	1:A:1122:PRO:C	2.57	0.42
1:A:1129:GLU:O	1:A:1130:GLN:C	2.57	0.42
1:A:1202:MET:SD	1:A:1207:LEU:HD12	2.60	0.42
2:B:247:GLY:C	2:B:249:ARG:H	2.23	0.42
2:B:510:LYS:HD2	2:B:511:PRO:HD3	2.00	0.42
2:B:593:PRO:CA	2:B:596:LEU:HB3	2.49	0.42
2:B:653:VAL:HG22	2:B:689:LEU:HD13	2.02	0.42
2:B:806:THR:O	2:B:809:MET:HG3	2.20	0.42
2:B:821:GLN:HE22	2:B:851:PHE:CA	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:955:THR:HG23	2:B:956:THR:H	1.84	0.42
3:C:238:ILE:HG12	3:C:246:ARG:NH1	2.35	0.42
4:D:53:SER:HB3	4:D:153:ARG:H	1.84	0.42
4:D:156:ASP:O	4:D:160:VAL:HG23	2.20	0.42
4:D:210:ILE:O	4:D:213:GLU:HB2	2.19	0.42
7:G:21:ARG:HG2	7:G:24:GLN:HG2	2.02	0.42
7:G:99:PHE:O	7:G:99:PHE:CD1	2.73	0.42
7:G:153:GLN:HG2	7:G:154:VAL:N	2.34	0.42
8:H:3:ASN:O	8:H:60:ALA:HB1	2.20	0.42
8:H:11:GLN:O	8:H:28:ALA:CB	2.67	0.42
8:H:139:ASN:O	8:H:140:ALA:CB	2.67	0.42
10:J:16:ASP:O	10:J:18:TRP:N	2.52	0.42
12:L:28:LYS:HD2	12:L:39:SER:OG	2.18	0.42
1:A:464:PRO:O	1:A:465:TYR:HB2	2.20	0.42
1:A:474:VAL:HG23	1:A:521:MET:HE1	2.02	0.42
1:A:637:LYS:HB3	1:A:641:VAL:CG2	2.33	0.42
1:A:857:ARG:CD	1:A:861:GLY:O	2.60	0.42
1:A:859:SER:HB2	1:A:1422:ARG:HB2	2.01	0.42
1:A:867:ILE:HG12	1:A:1000:LEU:HD11	2.01	0.42
1:A:946:VAL:HG22	5:E:201:LYS:HD2	2.02	0.42
1:A:1011:GLN:NE2	1:A:1015:VAL:HG21	2.35	0.42
1:A:1152:ILE:HD11	9:I:44:TYR:CD2	2.47	0.42
1:A:1164:PRO:C	1:A:1166:ASP:H	2.23	0.42
1:A:1189:SER:OG	1:A:1256:GLU:OE1	2.32	0.42
2:B:46:GLN:NE2	2:B:496:ARG:CB	2.82	0.42
2:B:227:LYS:H	2:B:395:GLN:CD	2.23	0.42
2:B:294:ASP:C	2:B:296:GLU:N	2.72	0.42
2:B:459:TYR:CZ	2:B:469:GLN:HB3	2.55	0.42
2:B:806:THR:CG2	2:B:1046:PRO:HD3	2.47	0.42
2:B:992:ILE:CD1	11:K:66:PRO:HB2	2.49	0.42
2:B:1110:PRO:HG3	2:B:1125:ASP:HB3	2.01	0.42
3:C:100:THR:HG21	3:C:102:GLN:NE2	2.35	0.42
3:C:166:GLU:HG3	11:K:10:PHE:HZ	1.84	0.42
4:D:52:LEU:O	4:D:53:SER:OG	2.36	0.42
4:D:119:ARG:HB2	4:D:221:TYR:CE2	2.53	0.42
5:E:78:LEU:CA	5:E:107:THR:HB	2.41	0.42
6:F:70:LYS:C	6:F:72:LYS:N	2.72	0.42
7:G:51:TYR:C	7:G:51:TYR:CD2	2.93	0.42
7:G:53:ASN:N	7:G:53:ASN:HD22	2.17	0.42
7:G:111:THR:O	7:G:112:LYS:C	2.57	0.42
8:H:5:LEU:HD13	8:H:135:LEU:HD12	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:129:TYR:H	8:H:130:ARG:NH1	2.14	0.42
9:I:50:THR:HG23	9:I:52:ILE:HG12	2.02	0.42
10:J:35:ALA:O	10:J:38:ARG:HB3	2.19	0.42
10:J:42:LYS:HE2	10:J:43:ARG:H	1.85	0.42
11:K:79:GLU:CG	11:K:80:GLY:N	2.82	0.42
12:L:70:ARG:HG2	12:L:70:ARG:HH11	1.84	0.42
1:A:443:LEU:HD22	1:A:443:LEU:HA	1.87	0.42
1:A:640:GLN:HA	1:A:640:GLN:OE1	2.19	0.42
1:A:680:THR:HG23	2:B:729:ILE:HD11	2.01	0.42
1:A:715:GLU:OE1	1:A:774:ARG:HD3	2.19	0.42
1:A:768:GLN:HG2	1:A:816:HIS:CA	2.26	0.42
1:A:1074:GLU:H	1:A:1075:PRO:HD2	1.85	0.42
1:A:1119:TYR:O	1:A:1120:LEU:O	2.38	0.42
1:A:1161:THR:O	1:A:1163:ILE:N	2.53	0.42
2:B:122:LEU:O	2:B:206:ASN:N	2.53	0.42
2:B:257:LYS:N	2:B:270:LYS:O	2.53	0.42
2:B:469:GLN:HG3	2:B:470:LYS:N	2.23	0.42
2:B:653:VAL:HG22	2:B:689:LEU:HB3	2.02	0.42
2:B:831:SER:CB	2:B:994:TYR:OH	2.68	0.42
2:B:969:ARG:HD3	3:C:61:GLU:OE2	2.20	0.42
2:B:1116:ARG:HD2	2:B:1198:TYR:CD1	2.55	0.42
3:C:3:GLU:HG3	11:K:104:ASN:HD21	1.85	0.42
3:C:26:ASP:O	3:C:29:MET:HB3	2.20	0.42
3:C:114:TYR:CD2	3:C:140:ASN:HB3	2.55	0.42
4:D:137:ASN:C	4:D:139:LYS:H	2.23	0.42
5:E:96:PHE:O	5:E:99:HIS:HB3	2.18	0.42
6:F:77:ASP:O	6:F:78:GLN:CB	2.65	0.42
7:G:29:LYS:O	7:G:30:LEU:C	2.58	0.42
9:I:76:PRO:HD3	9:I:110:PHE:CD2	2.54	0.42
9:I:80:SER:OG	9:I:105:SER:CB	2.68	0.42
11:K:79:GLU:C	11:K:81:TYR:H	2.23	0.42
1:A:332:LYS:C	1:A:333:GLU:HG2	2.40	0.42
1:A:351:THR:HG21	2:B:1103:ILE:HG13	2.01	0.42
1:A:370:ILE:CG2	1:A:374:LEU:HG	2.50	0.42
1:A:531:ILE:HD13	1:A:653:VAL:HG21	1.98	0.42
1:A:785:PRO:HG2	1:A:786:HIS:CD2	2.54	0.42
1:A:867:ILE:CG1	1:A:1000:LEU:HD11	2.50	0.42
1:A:1114:PRO:O	1:A:1330:ASN:ND2	2.53	0.42
1:A:1115:SER:OG	1:A:1116:LEU:N	2.51	0.42
1:A:1293:SER:HB3	1:A:1297:GLU:O	2.20	0.42
1:A:1438:THR:O	6:F:92:ARG:NH1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1450:LEU:O	1:A:1450:LEU:HG	2.19	0.42
2:B:53:GLN:CG	2:B:547:VAL:CG2	2.96	0.42
2:B:281:PRO:HB3	2:B:320:ASP:OD2	2.18	0.42
2:B:642:ASP:CA	2:B:649:LYS:HA	2.27	0.42
2:B:659:ALA:HA	2:B:662:MET:HE2	2.02	0.42
2:B:800:GLN:CB	10:J:52:THR:CG2	2.96	0.42
2:B:839:MET:CE	2:B:1010:LEU:HD11	2.50	0.42
2:B:1034:VAL:O	2:B:1036:ALA:N	2.52	0.42
2:B:1065:GLN:NE2	2:B:1066:SER:N	2.67	0.42
3:C:213:PRO:O	3:C:214:ASN:HB3	2.19	0.42
4:D:64:VAL:HG22	4:D:129:LEU:CD2	2.49	0.42
7:G:1:MET:HE1	7:G:3:PHE:HE1	1.85	0.42
9:I:53:GLY:HA2	9:I:56:ALA:HB2	2.02	0.42
1:A:115:LEU:CD1	1:A:142:CYS:HB3	2.50	0.42
1:A:134:ARG:C	1:A:136:ALA:N	2.73	0.42
1:A:444:PHE:HB3	1:A:458:HIS:CD2	2.55	0.42
1:A:528:LEU:HD23	1:A:751:SER:CB	2.45	0.42
1:A:537:ARG:HH22	8:H:122:LEU:CG	2.32	0.42
1:A:896:ARG:HB3	1:A:897:TYR:HD1	1.85	0.42
1:A:1402:PHE:O	1:A:1403:GLU:CB	2.68	0.42
2:B:449:ASN:O	2:B:450:ALA:C	2.58	0.42
2:B:610:ASN:HA	2:B:611:PRO:HD3	1.92	0.42
2:B:895:ASP:C	2:B:897:GLY:N	2.73	0.42
2:B:1023:VAL:C	2:B:1025:HIS:N	2.73	0.42
3:C:31:ASN:O	3:C:34:ARG:HB3	2.20	0.42
4:D:67:ARG:HA	4:D:133:THR:HG21	2.02	0.42
5:E:156:LEU:HD12	5:E:195:VAL:CG1	2.50	0.42
8:H:4:THR:HG22	8:H:5:LEU:N	2.35	0.42
8:H:98:TYR:HE1	8:H:139:ASN:HA	1.85	0.42
12:L:49:LYS:O	12:L:50:ASP:CB	2.66	0.42
1:A:62:ASP:O	1:A:62:ASP:OD1	2.38	0.42
1:A:168:GLY:O	1:A:169:ASN:C	2.58	0.42
1:A:362:ASP:O	1:A:458:HIS:HA	2.20	0.42
1:A:391:LEU:O	1:A:394:ASN:HB3	2.20	0.42
1:A:440:ASP:O	1:A:460:VAL:HG23	2.20	0.42
1:A:456:MET:HE1	1:A:507:VAL:HG13	2.00	0.42
1:A:474:VAL:C	1:A:477:PRO:HD2	2.39	0.42
1:A:521:MET:O	1:A:624:SER:HB3	2.20	0.42
1:A:528:LEU:HD11	1:A:619:LYS:H	1.85	0.42
1:A:616:VAL:HG12	1:A:617:VAL:N	2.34	0.42
1:A:626:ASN:C	1:A:628:GLY:H	2.21	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:675:THR:HG21	1:A:736:ASN:CG	2.41	0.42
1:A:744:LYS:C	1:A:748:MET:HE2	2.40	0.42
1:A:765:VAL:HG23	1:A:802:ASN:O	2.20	0.42
1:A:879:GLU:OE2	1:A:959:ASN:HB2	2.20	0.42
1:A:885:THR:HG23	1:A:893:PHE:HE1	1.85	0.42
1:A:1017:LEU:HD23	5:E:204:THR:C	2.40	0.42
1:A:1277:GLU:O	1:A:1279:ILE:HD12	2.20	0.42
1:A:1314:SER:C	1:A:1315:GLU:HG3	2.40	0.42
2:B:906:SER:O	2:B:907:GLY:O	2.38	0.42
2:B:956:THR:HG22	2:B:957:ASN:N	2.34	0.42
3:C:16:ASP:O	3:C:17:ASN:CG	2.59	0.42
5:E:13:TRP:O	5:E:16:PHE:N	2.53	0.42
5:E:16:PHE:CD1	5:E:58:MET:HE2	2.54	0.42
5:E:134:THR:O	5:E:135:PHE:CD1	2.73	0.42
5:E:207:ARG:HB3	5:E:207:ARG:NH1	2.34	0.42
7:G:153:GLN:CG	7:G:154:VAL:HG23	2.43	0.42
8:H:12:VAL:HG13	8:H:26:ILE:CG2	2.50	0.42
8:H:26:ILE:CG2	8:H:27:GLU:H	2.24	0.42
8:H:84:ALA:HA	8:H:87:ARG:HB2	2.01	0.42
9:I:19:ASP:CB	9:I:24:ARG:HG3	2.50	0.42
1:A:293:GLU:C	1:A:295:LEU:N	2.73	0.41
1:A:315:LEU:CD1	2:B:471:LYS:HB3	2.45	0.41
1:A:562:THR:HB	8:H:98:TYR:CE2	2.55	0.41
1:A:779:PHE:HD1	1:A:784:LEU:HA	1.85	0.41
1:A:800:VAL:HG11	1:A:808:LEU:HD11	2.02	0.41
1:A:840:ARG:HH22	1:A:1106:ASN:HD21	1.67	0.41
1:A:885:THR:O	1:A:885:THR:CG2	2.67	0.41
1:A:898:ARG:HA	1:A:933:TYR:CD1	2.55	0.41
1:A:1010:ALA:HA	1:A:1013:ASP:OD2	2.20	0.41
1:A:1033:GLN:O	1:A:1036:ARG:NH1	2.53	0.41
1:A:1191:TRP:HD1	1:A:1256:GLU:CB	2.32	0.41
2:B:44:VAL:HG23	2:B:48:LEU:CD1	2.50	0.41
2:B:235:SER:HB3	2:B:258:LEU:HG	2.02	0.41
2:B:980:PHE:HE2	2:B:1094:ARG:CB	2.29	0.41
2:B:1100:ASP:OD2	11:K:1:MET:HB2	2.20	0.41
2:B:1177:HIS:O	2:B:1178:ASN:HB2	2.18	0.41
3:C:67:LEU:HD23	3:C:70:ILE:HD11	2.02	0.41
5:E:98:ILE:HG22	5:E:102:GLU:CD	2.41	0.41
5:E:167:ARG:HA	5:E:167:ARG:HD3	1.76	0.41
6:F:85:MET:HG2	6:F:89:GLU:HB2	2.02	0.41
8:H:108:SER:O	8:H:110:ASP:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:41:MET:HE1	1:A:42:ASP:HB2	2.02	0.41
1:A:334:GLY:O	1:A:335:ARG:C	2.58	0.41
1:A:481:ASP:OD2	1:A:481:ASP:N	2.53	0.41
1:A:537:ARG:NH1	8:H:122:LEU:HG	2.34	0.41
1:A:636:GLU:OE2	1:A:962:ARG:NH1	2.53	0.41
1:A:745:GLN:HA	1:A:748:MET:CE	2.50	0.41
1:A:838:GLN:O	1:A:841:LEU:HB2	2.20	0.41
2:B:23:ALA:O	2:B:654:ARG:HB3	2.20	0.41
2:B:610:ASN:C	2:B:612:GLU:H	2.23	0.41
2:B:664:THR:CG2	2:B:678:GLU:N	2.83	0.41
2:B:781:PHE:O	2:B:782:LEU:HG	2.20	0.41
2:B:1011:ILE:O	2:B:1011:ILE:HG22	2.19	0.41
2:B:1047:PHE:O	2:B:1048:THR:HG23	2.20	0.41
2:B:1064:TYR:O	2:B:1065:GLN:C	2.59	0.41
2:B:1072:MET:HE3	2:B:1085:ILE:CB	2.41	0.41
2:B:1135:ARG:HG2	2:B:1139:ILE:HD11	2.02	0.41
3:C:124:LEU:HD21	3:C:129:ILE:O	2.20	0.41
3:C:213:PRO:O	3:C:214:ASN:CB	2.68	0.41
3:C:269:LYS:HD3	3:C:270:VAL:HG13	2.01	0.41
4:D:53:SER:OG	4:D:54:GLU:N	2.52	0.41
4:D:68:ARG:C	4:D:70:PHE:H	2.22	0.41
9:I:2:THR:O	9:I:3:THR:C	2.58	0.41
9:I:61:ASP:C	9:I:63:GLY:H	2.23	0.41
10:J:6:ARG:HB3	10:J:11:GLY:O	2.20	0.41
11:K:13:GLY:O	11:K:14:GLU:O	2.38	0.41
13:T:12:DG:H2"	13:T:13:DT:O5'	2.20	0.41
1:A:134:ARG:C	1:A:136:ALA:H	2.23	0.41
1:A:705:LYS:HB2	1:A:708:MET:CE	2.49	0.41
1:A:767:GLN:NE2	1:A:797:LYS:O	2.53	0.41
1:A:846:GLU:OE1	1:A:1425:SER:OG	2.38	0.41
1:A:894:GLU:HG2	1:A:933:TYR:OH	2.21	0.41
1:A:910:PRO:HB3	1:A:917:SER:N	2.29	0.41
1:A:946:VAL:HG13	5:E:201:LYS:CB	2.38	0.41
1:A:1107:VAL:HG21	1:A:1383:SER:HB3	2.02	0.41
1:A:1330:ASN:O	1:A:1332:PHE:N	2.53	0.41
2:B:26:THR:HA	2:B:708:GLU:OE1	2.20	0.41
2:B:886:LYS:HB3	2:B:887:HIS:H	1.73	0.41
2:B:982:SER:HB3	2:B:1092:TYR:CE2	2.55	0.41
2:B:1001:PHE:HD2	3:C:34:ARG:HH21	1.64	0.41
5:E:52:ARG:CG	5:E:52:ARG:NH1	2.81	0.41
5:E:89:GLY:HA2	5:E:117:THR:OG1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:116:ASP:OD1	6:F:119:ARG:N	2.54	0.41
8:H:24:CYS:HB2	8:H:44:VAL:CG2	2.48	0.41
8:H:41:ASP:O	8:H:42:ILE:CB	2.67	0.41
1:A:92:HIS:O	1:A:94:GLY:N	2.53	0.41
1:A:343:LYS:HB3	2:B:1117:GLN:OE1	2.21	0.41
1:A:377:PRO:HD2	1:A:493:GLN:OE1	2.20	0.41
1:A:500:GLU:OE2	1:A:1438:THR:HG21	2.21	0.41
1:A:516:SER:O	1:A:518:LYS:HB3	2.20	0.41
1:A:543:LEU:HD12	1:A:547:LEU:HG	2.03	0.41
1:A:1037:LEU:HD13	1:A:1041:ALA:CB	2.50	0.41
1:A:1276:VAL:CG1	1:A:1277:GLU:H	2.29	0.41
1:A:1444:MET:O	6:F:133:VAL:N	2.53	0.41
2:B:344:LYS:O	2:B:345:LYS:C	2.59	0.41
2:B:355:ILE:HG13	2:B:355:ILE:H	1.71	0.41
2:B:593:PRO:CG	2:B:617:ARG:NH2	2.83	0.41
2:B:619:ILE:CG2	9:I:61:ASP:HB2	2.51	0.41
2:B:685:LEU:HG	2:B:686:ASN:N	2.33	0.41
2:B:745:PRO:C	2:B:747:MET:N	2.72	0.41
2:B:868:MET:O	2:B:870:ILE:HG13	2.19	0.41
2:B:1183:LYS:C	2:B:1185:CYS:N	2.73	0.41
4:D:2:ASN:O	4:D:4:SER:N	2.44	0.41
4:D:155:ARG:CG	4:D:155:ARG:NH1	2.84	0.41
6:F:90:ARG:HG2	6:F:155:LEU:HD13	2.02	0.41
7:G:20:PRO:CG	7:G:21:ARG:H	2.33	0.41
8:H:63:LEU:CD1	8:H:64:ASN:N	2.84	0.41
12:L:27:LEU:HB2	12:L:28:LYS:H	1.78	0.41
1:A:188:ASP:O	1:A:195:ASP:HA	2.20	0.41
1:A:218:ASP:O	1:A:219:PHE:C	2.59	0.41
1:A:483:ASP:HB2	2:B:987:LYS:HB3	2.01	0.41
1:A:614:PHE:CB	8:H:122:LEU:HD21	2.50	0.41
1:A:865:GLN:OE1	1:A:869:GLY:N	2.44	0.41
1:A:930:ASP:O	1:A:931:GLU:C	2.58	0.41
1:A:1035:TYR:O	1:A:1036:ARG:C	2.58	0.41
1:A:1317:MET:C	1:A:1319:VAL:H	2.24	0.41
1:A:1431:GLY:HA3	2:B:1197:PRO:HD3	2.02	0.41
1:A:1446:ASP:O	1:A:1447:GLU:C	2.58	0.41
2:B:119:LEU:HD22	2:B:789:MET:HB2	2.02	0.41
2:B:343:ILE:HG23	2:B:347:LYS:HE2	2.01	0.41
2:B:744:HIS:CG	2:B:745:PRO:HD2	2.55	0.41
2:B:795:ILE:HD12	2:B:795:ILE:N	2.36	0.41
2:B:880:THR:HB	2:B:934:LYS:CD	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:893:LEU:C	2:B:894:ASP:O	2.58	0.41
2:B:957:ASN:O	2:B:958:GLN:C	2.58	0.41
2:B:1074:ASN:O	2:B:1076:HIS:N	2.53	0.41
3:C:209:TYR:H	3:C:209:TYR:HD1	1.69	0.41
6:F:73:ALA:CB	6:F:143:PHE:H	2.34	0.41
6:F:118:LEU:O	6:F:122:MET:CG	2.68	0.41
12:L:53:HIS:C	12:L:55:ILE:HD13	2.41	0.41
1:A:16:GLU:CG	2:B:1220:ARG:HA	2.51	0.41
1:A:58:LEU:O	1:A:59:GLY:O	2.39	0.41
1:A:441:PRO:HG3	1:A:498:ARG:HB2	2.02	0.41
1:A:455:MET:HE3	2:B:1134:GLU:HG3	2.02	0.41
1:A:523:ILE:CD1	1:A:649:ILE:HG21	2.51	0.41
1:A:552:TRP:HE3	1:A:651:LYS:HB3	1.85	0.41
1:A:622:VAL:O	1:A:622:VAL:HG22	2.20	0.41
1:A:870:GLU:O	1:A:871:ASP:HB3	2.19	0.41
1:A:874:ASP:OD1	1:A:874:ASP:C	2.59	0.41
1:A:1325:THR:HG22	1:A:1326:ARG:HG3	2.01	0.41
1:A:1420:ASP:O	1:A:1421:CYS:CB	2.64	0.41
2:B:116:GLU:C	2:B:118:ARG:H	2.24	0.41
2:B:255:GLN:O	2:B:271:ALA:HB1	2.20	0.41
2:B:278:GLN:HG2	2:B:279:ASP:N	2.35	0.41
2:B:303:TYR:HH	2:B:586:TRP:HH2	1.65	0.41
2:B:705:MET:HE1	2:B:742:GLU:HG2	2.02	0.41
2:B:1003:ALA:O	3:C:177:GLU:HG2	2.21	0.41
4:D:130:LEU:C	4:D:132:GLN:N	2.73	0.41
4:D:153:ARG:HD3	4:D:154:PHE:CE1	2.54	0.41
5:E:205:SER:O	5:E:206:GLY:C	2.59	0.41
8:H:77:ARG:O	8:H:78:SER:O	2.38	0.41
9:I:35:VAL:CG1	9:I:36:GLU:N	2.79	0.41
11:K:98:LEU:O	11:K:99:GLY:C	2.59	0.41
1:A:515:GLN:HB2	1:A:1071:SER:CB	2.51	0.41
1:A:567:LYS:HG2	1:A:568:PRO:CD	2.51	0.41
1:A:874:ASP:N	1:A:1058:VAL:HG23	2.36	0.41
1:A:967:ALA:HA	1:A:1044:TRP:CZ3	2.56	0.41
1:A:1118:VAL:O	1:A:1118:VAL:HG23	2.20	0.41
1:A:1135:ARG:HB2	1:A:1306:LEU:HD11	2.02	0.41
1:A:1230:GLU:C	1:A:1232:ASN:H	2.23	0.41
1:A:1434:ALA:O	1:A:1436:ILE:N	2.53	0.41
2:B:51:PHE:O	2:B:54:PHE:HB3	2.21	0.41
2:B:224:GLN:O	2:B:238:ALA:HA	2.20	0.41
2:B:467:GLY:N	2:B:475:SER:HB3	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:582:VAL:O	2:B:582:VAL:HG12	2.21	0.41
2:B:656:GLY:O	2:B:657:HIS:C	2.59	0.41
2:B:757:PRO:HG2	2:B:984:HIS:CE1	2.55	0.41
2:B:766:ARG:HH11	2:B:766:ARG:CG	2.31	0.41
2:B:797:TYR:O	10:J:1:MET:CG	2.69	0.41
3:C:43:THR:CG2	3:C:44:LEU:N	2.60	0.41
3:C:99:LEU:HA	3:C:119:VAL:O	2.20	0.41
4:D:176:GLU:HG2	4:D:197:SER:OG	2.20	0.41
5:E:14:ARG:HB3	5:E:141:VAL:O	2.19	0.41
5:E:112:TYR:CZ	5:E:136:ASN:HB2	2.55	0.41
5:E:112:TYR:HE1	5:E:136:ASN:HD22	1.68	0.41
5:E:159:ASP:O	5:E:160:GLU:C	2.59	0.41
5:E:164:LEU:HD11	5:E:211:TYR:CE1	2.56	0.41
5:E:165:LEU:HD21	5:E:175:LEU:HD11	2.03	0.41
5:E:172:GLU:O	5:E:175:LEU:HB2	2.21	0.41
5:E:190:LEU:HA	5:E:190:LEU:HD22	1.84	0.41
6:F:89:GLU:OE2	6:F:134:ILE:HG21	2.20	0.41
6:F:109:VAL:CG2	6:F:124:GLU:HG2	2.50	0.41
8:H:89:LEU:HB2	8:H:91:ASP:OD1	2.21	0.41
8:H:128:ASN:OD1	8:H:128:ASN:O	2.38	0.41
9:I:61:ASP:O	9:I:63:GLY:N	2.54	0.41
1:A:239:LEU:HD12	1:A:239:LEU:HA	1.65	0.41
1:A:565:ILE:HD13	8:H:46:LEU:HD12	2.03	0.41
1:A:635:ARG:HH21	1:A:877:HIS:HA	1.84	0.41
1:A:913:LEU:HD21	1:A:915:SER:OG	2.20	0.41
1:A:921:GLY:O	1:A:922:ASP:C	2.58	0.41
1:A:1301:GLU:O	1:A:1302:PRO:O	2.39	0.41
1:A:1342:GLU:CD	5:E:198:ILE:HG21	2.41	0.41
2:B:120:ARG:CD	2:B:955:THR:HG21	2.50	0.41
2:B:705:MET:HE3	2:B:742:GLU:HB2	2.02	0.41
2:B:840:ILE:HB	2:B:1011:ILE:HB	2.02	0.41
2:B:1020:ARG:HG3	2:B:1020:ARG:NH1	2.34	0.41
3:C:20:PHE:HE2	3:C:232:VAL:HG23	1.86	0.41
3:C:79:GLN:HG3	3:C:127:ARG:HD2	2.03	0.41
3:C:221:TYR:CD1	3:C:222:LYS:HG3	2.55	0.41
4:D:71:LYS:HA	4:D:74:GLN:HB2	2.02	0.41
4:D:130:LEU:CD1	4:D:142:LYS:HG3	2.51	0.41
5:E:38:PRO:HG2	5:E:41:ASP:OD2	2.21	0.41
5:E:94:LYS:HE2	5:E:98:ILE:HD11	2.02	0.41
6:F:96:THR:O	6:F:99:LEU:HB3	2.21	0.41
9:I:29:CYS:SG	9:I:31:THR:HB	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:111:THR:CG2	9:I:112:SER:H	2.33	0.41
10:J:14:VAL:O	10:J:14:VAL:CG1	2.68	0.41
10:J:44:TYR:HD2	10:J:44:TYR:N	2.03	0.41
10:J:56:LEU:HB3	10:J:60:PHE:CE2	2.55	0.41
1:A:298:PHE:O	1:A:301:ALA:HB3	2.21	0.41
1:A:319:GLY:O	1:A:320:ARG:C	2.60	0.41
1:A:349:ALA:C	2:B:1128:LEU:HD11	2.41	0.41
1:A:351:THR:CG2	2:B:1103:ILE:HG13	2.51	0.41
1:A:360:GLU:C	1:A:471:ASN:HD22	2.24	0.41
1:A:371:ALA:HB2	1:A:462:VAL:HG13	2.03	0.41
1:A:383:TYR:N	1:A:383:TYR:HD2	2.15	0.41
1:A:427:GLN:HB2	1:A:430:TRP:NE1	2.35	0.41
1:A:434:ARG:HG2	1:A:434:ARG:NH1	2.33	0.41
1:A:535:THR:HG23	1:A:575:LYS:HG2	2.02	0.41
1:A:600:PRO:HG2	1:A:601:LYS:HG3	2.03	0.41
1:A:614:PHE:HB2	8:H:122:LEU:HD21	2.02	0.41
1:A:741:ASN:HD22	1:A:744:LYS:N	2.14	0.41
1:A:886:ILE:CG2	1:A:887:GLY:H	2.34	0.41
1:A:897:TYR:HD1	1:A:897:TYR:H	1.67	0.41
1:A:919:ILE:HD13	1:A:983:ILE:HD12	2.03	0.41
1:A:944:ARG:CZ	1:A:1298:TYR:CE1	3.04	0.41
1:A:1006:ILE:HD12	5:E:167:ARG:HB2	2.03	0.41
1:A:1026:LEU:HD23	1:A:1026:LEU:HA	1.72	0.41
1:A:1094:VAL:O	1:A:1095:THR:C	2.60	0.41
1:A:1139:GLU:O	1:A:1140:HIS:C	2.60	0.41
1:A:1224:LEU:HD12	1:A:1241:ARG:O	2.21	0.41
1:A:1276:VAL:CG1	1:A:1277:GLU:N	2.82	0.41
2:B:114:PRO:O	2:B:116:GLU:N	2.54	0.41
2:B:221:ASN:HA	2:B:241:ARG:O	2.21	0.41
2:B:306:ASN:C	2:B:308:TRP:N	2.74	0.41
2:B:311:LEU:O	2:B:314:LEU:N	2.54	0.41
2:B:323:VAL:O	2:B:323:VAL:HG12	2.20	0.41
2:B:326:ASP:OD1	2:B:329:THR:N	2.47	0.41
2:B:332:ASP:OD1	2:B:348:ARG:CZ	2.69	0.41
2:B:334:ILE:HB	2:B:352:ALA:HB2	2.02	0.41
2:B:571:PRO:HG2	2:B:572:HIS:CE1	2.56	0.41
2:B:619:ILE:HD13	9:I:64:SER:OG	2.21	0.41
2:B:620:ARG:NH2	9:I:86:PHE:CD2	2.89	0.41
2:B:686:ASN:C	2:B:688:GLY:N	2.74	0.41
2:B:859:TYR:OH	2:B:941:LEU:HD12	2.21	0.41
2:B:918:ILE:HD12	2:B:935:ARG:NH1	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:999:MET:HG2	2:B:1007:VAL:CG2	2.50	0.41
2:B:999:MET:HB3	2:B:1007:VAL:HG21	2.03	0.41
2:B:1041:GLU:O	2:B:1042:GLY:C	2.59	0.41
2:B:1169:MET:O	2:B:1170:THR:C	2.58	0.41
3:C:101:LEU:HD13	3:C:118:LEU:CD2	2.31	0.41
5:E:74:ASP:OD1	5:E:74:ASP:N	2.50	0.41
6:F:75:PRO:C	6:F:77:ASP:H	2.24	0.41
6:F:85:MET:HB3	6:F:155:LEU:HD11	2.02	0.41
6:F:90:ARG:CG	6:F:91:ALA:N	2.81	0.41
7:G:20:PRO:HG2	7:G:21:ARG:N	2.36	0.41
7:G:114:LEU:HD23	7:G:161:GLY:O	2.20	0.41
8:H:32:THR:CG2	8:H:33:GLN:N	2.80	0.41
9:I:82:GLU:HB3	9:I:104:LEU:CG	2.50	0.41
9:I:94:ASP:O	9:I:95:THR:O	2.38	0.41
10:J:2:ILE:HG23	10:J:3:VAL:H	1.85	0.41
11:K:40:HIS:O	11:K:41:THR:C	2.59	0.41
11:K:51:LEU:HD13	11:K:59:ALA:HB3	2.03	0.41
12:L:29:TYR:HA	12:L:57:LEU:O	2.20	0.41
1:A:112:LYS:HG2	1:A:113:LEU:N	2.36	0.41
1:A:227:VAL:O	1:A:228:PHE:HD2	2.04	0.41
1:A:355:GLY:HA3	1:A:482:PHE:CZ	2.56	0.41
1:A:416:ARG:NH1	1:A:417:TYR:HE2	2.19	0.41
1:A:574:GLY:O	1:A:575:LYS:C	2.59	0.41
1:A:783:THR:HG21	1:A:815:PHE:CE2	2.56	0.41
1:A:818:MET:N	2:B:514:LEU:HD23	2.35	0.41
1:A:825:ILE:HD13	2:B:512:ARG:HB3	2.00	0.41
1:A:1224:LEU:HG	1:A:1226:VAL:HG23	2.02	0.41
1:A:1225:PHE:HZ	1:A:1227:ILE:HD11	1.85	0.41
2:B:98:THR:O	2:B:126:SER:CB	2.69	0.41
2:B:662:MET:HA	2:B:665:GLU:HB2	2.03	0.41
2:B:758:PHE:HB3	2:B:761:HIS:HD2	1.87	0.41
2:B:785:TYR:CE2	10:J:60:PHE:CE1	3.08	0.41
2:B:843:GLN:NE2	2:B:847:ASP:OD1	2.52	0.41
2:B:911:ILE:HG23	2:B:966:VAL:HG11	2.02	0.41
2:B:1060:ARG:NE	3:C:202:PRO:HG3	2.36	0.41
4:D:53:SER:O	4:D:57:LEU:HG	2.21	0.41
4:D:189:ASP:O	4:D:193:THR:CB	2.69	0.41
6:F:113:GLY:O	6:F:114:GLU:C	2.59	0.41
6:F:118:LEU:O	6:F:122:MET:HG3	2.20	0.41
8:H:82:PRO:HG2	8:H:83:GLN:H	1.86	0.41
10:J:45:CYS:O	10:J:48:ARG:NE	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:7:PHE:HA	11:K:10:PHE:HE2	1.86	0.41
1:A:68:GLN:C	1:A:70:CYS:N	2.72	0.40
1:A:130:ASP:O	1:A:132:LYS:N	2.54	0.40
1:A:317:LYS:HG2	2:B:471:LYS:HZ1	1.85	0.40
1:A:497:THR:O	1:A:500:GLU:HB2	2.21	0.40
1:A:584:ASN:HA	1:A:609:ASP:O	2.22	0.40
1:A:630:ILE:CD1	1:A:646:PHE:HZ	2.31	0.40
1:A:1191:TRP:HD1	1:A:1256:GLU:HB3	1.86	0.40
1:A:1444:MET:HE2	1:A:1444:MET:HB2	1.91	0.40
2:B:56:ASP:HB2	2:B:57:TYR:CD1	2.56	0.40
2:B:345:LYS:C	2:B:348:ARG:HG2	2.42	0.40
2:B:684:LEU:O	2:B:689:LEU:HB2	2.21	0.40
2:B:863:GLU:O	2:B:961:LEU:HD22	2.21	0.40
2:B:1102:LYS:CA	2:B:1122:ARG:NH1	2.84	0.40
3:C:3:GLU:CG	11:K:104:ASN:HD21	2.33	0.40
4:D:57:LEU:CD1	4:D:160:VAL:HG21	2.44	0.40
4:D:123:LEU:HG	4:D:149:THR:CG2	2.51	0.40
6:F:117:PRO:HG2	6:F:118:LEU:H	1.86	0.40
9:I:1:MET:HE2	9:I:4:PHE:HB3	2.03	0.40
11:K:68:PHE:N	11:K:68:PHE:CD2	2.89	0.40
1:A:40:THR:CB	1:A:41:MET:HE2	2.49	0.40
1:A:51:GLY:HA2	1:A:56:PRO:HA	2.03	0.40
1:A:335:ARG:HA	1:A:335:ARG:HE	1.85	0.40
1:A:335:ARG:NH1	2:B:1202:LEU:CD2	2.79	0.40
1:A:596:THR:C	1:A:597:LEU:HD12	2.41	0.40
1:A:605:MET:HG2	1:A:621:THR:CG2	2.51	0.40
1:A:804:TYR:HE1	2:B:1021:MET:HE3	1.85	0.40
1:A:814:PHE:CD1	2:B:519:TRP:HE3	2.39	0.40
1:A:953:ASN:C	1:A:954:TRP:CD1	2.95	0.40
1:A:982:THR:C	1:A:984:LYS:N	2.75	0.40
1:A:1050:GLU:HG3	1:A:1051:ALA:N	2.35	0.40
1:A:1127:ASP:OD1	1:A:1130:GLN:HB2	2.20	0.40
1:A:1170:ILE:HG22	1:A:1174:PHE:CE1	2.57	0.40
2:B:258:LEU:O	2:B:259:TYR:O	2.39	0.40
2:B:782:LEU:HD12	2:B:788:ARG:HH11	1.86	0.40
2:B:901:PRO:HA	2:B:949:VAL:HG12	2.03	0.40
3:C:114:TYR:HE2	10:J:19:GLU:OE2	2.05	0.40
5:E:207:ARG:NH1	5:E:207:ARG:CB	2.84	0.40
8:H:135:LEU:HD13	8:H:137:GLN:HE21	1.81	0.40
9:I:7:CYS:CB	9:I:14:LEU:HD21	2.31	0.40
12:L:32:ALA:HB2	12:L:55:ILE:CG1	2.32	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:33:ALA:O	1:A:83:HIS:CD2	2.74	0.40
1:A:73:GLY:O	1:A:74:MET:C	2.60	0.40
1:A:91:PHE:HB3	1:A:96:ILE:CG1	2.51	0.40
1:A:320:ARG:HA	1:A:321:PRO:HD3	1.94	0.40
1:A:672:ASP:O	1:A:673:GLY:C	2.59	0.40
1:A:1192:LEU:HD13	1:A:1239:ARG:NH1	2.36	0.40
2:B:50:SER:OG	2:B:411:PRO:HD3	2.21	0.40
2:B:497:ARG:HH12	2:B:775:LYS:HE2	1.86	0.40
2:B:640:VAL:HG12	2:B:640:VAL:O	2.21	0.40
2:B:658:ILE:HG22	2:B:662:MET:CE	2.49	0.40
2:B:749:LEU:HB3	2:B:753:ALA:HB3	2.02	0.40
2:B:785:TYR:N	2:B:785:TYR:CD2	2.89	0.40
2:B:944:THR:HG21	2:B:1122:ARG:CZ	2.48	0.40
2:B:1146:PHE:O	2:B:1147:LEU:C	2.60	0.40
3:C:54:ASN:HB2	3:C:153:LEU:HD12	2.02	0.40
3:C:112:ASN:N	3:C:112:ASN:HD22	2.19	0.40
4:D:31:GLN:C	4:D:33:PHE:H	2.23	0.40
4:D:56:ARG:HA	4:D:148:LEU:HD13	2.02	0.40
4:D:75:LYS:HE2	4:D:75:LYS:HB3	1.92	0.40
4:D:187:THR:C	4:D:189:ASP:N	2.75	0.40
4:D:189:ASP:O	4:D:193:THR:HB	2.20	0.40
5:E:32:GLN:HG3	5:E:36:GLU:OE2	2.22	0.40
5:E:161:LYS:O	5:E:164:LEU:N	2.54	0.40
5:E:190:LEU:HD13	5:E:191:LYS:H	1.87	0.40
7:G:127:PRO:CB	7:G:139:ILE:HD11	2.51	0.40
9:I:68:LEU:HB3	9:I:84:VAL:CG2	2.52	0.40
11:K:6:ARG:HA	11:K:6:ARG:HD3	1.90	0.40
1:A:72:GLU:CB	1:A:76:GLU:HG2	2.48	0.40
1:A:78:PRO:CB	2:B:1201:LYS:HE3	2.49	0.40
1:A:230:ARG:N	1:A:233:TRP:HE3	2.11	0.40
1:A:269:ILE:CG2	1:A:300:VAL:HG22	2.51	0.40
1:A:284:ALA:O	1:A:286:HIS:N	2.47	0.40
1:A:334:GLY:O	1:A:336:ILE:N	2.55	0.40
1:A:356:ASP:OD2	11:K:65:HIS:CE1	2.70	0.40
1:A:438:ASP:O	1:A:439:ASN:CB	2.64	0.40
1:A:473:SER:OG	1:A:646:PHE:HD2	2.04	0.40
1:A:514:PRO:HB2	1:A:875:ALA:HB3	2.04	0.40
1:A:546:VAL:HG21	1:A:572:TRP:CE3	2.57	0.40
1:A:556:TRP:C	1:A:558:GLY:N	2.74	0.40
1:A:608:ILE:CB	1:A:613:ILE:HD11	2.48	0.40
1:A:688:LYS:HA	1:A:691:LEU:HB3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:873:MET:C	1:A:1058:VAL:CG2	2.89	0.40
1:A:1067:LEU:HD12	1:A:1367:HIS:CE1	2.57	0.40
2:B:276:ILE:HG22	2:B:278:GLN:O	2.21	0.40
2:B:293:PRO:C	2:B:294:ASP:O	2.58	0.40
2:B:349:ILE:O	2:B:353:LYS:HG3	2.22	0.40
2:B:582:VAL:CG2	2:B:626:ILE:HB	2.51	0.40
2:B:903:VAL:HG12	2:B:904:ARG:N	2.37	0.40
2:B:1135:ARG:HG3	2:B:1147:LEU:HD11	2.03	0.40
3:C:183:TRP:O	3:C:184:ASN:C	2.59	0.40
3:C:233:GLU:O	3:C:240:VAL:HG13	2.22	0.40
3:C:242:GLN:O	3:C:244:VAL:N	2.54	0.40
4:D:7:THR:HG21	4:D:32:GLU:OE2	2.20	0.40
8:H:138:GLU:O	8:H:139:ASN:C	2.58	0.40
11:K:28:PRO:O	11:K:29:ASN:C	2.58	0.40
12:L:47:ARG:HG3	12:L:47:ARG:NH1	2.36	0.40
1:A:77:CYS:C	1:A:78:PRO:O	2.59	0.40
1:A:341:MET:CE	1:A:843:LYS:HZ2	2.35	0.40
1:A:417:TYR:O	1:A:418:SER:C	2.60	0.40
1:A:418:SER:C	1:A:420:ARG:N	2.72	0.40
1:A:481:ASP:OD1	1:A:483:ASP:OD1	2.39	0.40
1:A:565:ILE:O	1:A:565:ILE:HG22	2.22	0.40
1:A:590:ARG:HD2	1:A:605:MET:HB2	2.04	0.40
1:A:720:ARG:NH1	1:A:720:ARG:HB2	2.36	0.40
1:A:734:GLU:C	1:A:736:ASN:N	2.74	0.40
1:A:833:GLU:HG3	1:A:1102:LYS:HZ1	1.86	0.40
1:A:977:LYS:HB3	1:A:978:PRO:HD2	2.03	0.40
1:A:1277:GLU:C	1:A:1279:ILE:H	2.25	0.40
1:A:1342:GLU:OE2	5:E:212:ARG:NH1	2.55	0.40
2:B:95:ILE:HA	2:B:129:PHE:O	2.22	0.40
2:B:167:ILE:N	2:B:167:ILE:CD1	2.82	0.40
2:B:167:ILE:CG2	2:B:453:ILE:HD12	2.40	0.40
2:B:170:LEU:HD12	2:B:171:PRO:N	2.37	0.40
2:B:195:CYS:HB2	2:B:784:ASN:OD1	2.22	0.40
2:B:253:THR:CG2	2:B:254:LEU:H	2.28	0.40
2:B:326:ASP:OD1	2:B:328:GLU:HB3	2.21	0.40
2:B:467:GLY:O	2:B:468:GLU:C	2.59	0.40
2:B:705:MET:HB3	2:B:706:GLN:H	1.70	0.40
2:B:791:THR:HG22	2:B:858:SER:HB2	2.04	0.40
2:B:797:TYR:HE1	2:B:971:THR:HG23	1.87	0.40
2:B:834:ASN:HB3	2:B:840:ILE:HG13	2.03	0.40
2:B:995:ARG:NH1	3:C:165:LYS:HG2	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1006:ILE:HD13	10:J:44:TYR:CZ	2.56	0.40
2:B:1197:PRO:C	2:B:1199:ALA:N	2.74	0.40
3:C:131:HIS:O	3:C:133:ILE:N	2.54	0.40
4:D:39:ASN:HD21	4:D:41:GLN:CG	2.33	0.40
4:D:130:LEU:HA	4:D:134:THR:OG1	2.22	0.40
5:E:153:HIS:C	5:E:154:ILE:HG13	2.42	0.40
5:E:173:SER:C	5:E:175:LEU:N	2.75	0.40
10:J:7:CYS:CB	10:J:49:MET:HE3	2.51	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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1421/1733 (82%)	929 (65%)	311 (22%)	181 (13%)	0 5
2	B	1111/1224 (91%)	712 (64%)	251 (23%)	148 (13%)	0 4
3	C	268/324 (83%)	165 (62%)	69 (26%)	34 (13%)	0 5
4	D	178/221 (80%)	125 (70%)	29 (16%)	24 (14%)	0 4
5	E	212/215 (99%)	145 (68%)	42 (20%)	25 (12%)	0 6
6	F	86/155 (56%)	60 (70%)	21 (24%)	5 (6%)	1 21
7	G	169/171 (99%)	133 (79%)	25 (15%)	11 (6%)	1 19
8	H	133/146 (91%)	78 (59%)	26 (20%)	29 (22%)	0 1
9	I	115/122 (94%)	72 (63%)	29 (25%)	14 (12%)	0 6
10	J	63/70 (90%)	35 (56%)	14 (22%)	14 (22%)	0 1
11	K	114/120 (95%)	80 (70%)	31 (27%)	3 (3%)	5 35
12	L	45/70 (64%)	18 (40%)	13 (29%)	14 (31%)	0 0
All	All	3915/4571 (86%)	2552 (65%)	861 (22%)	502 (13%)	0 5

All (502) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	4	GLN
1	A	41	MET
1	A	43	GLU
1	A	48	ALA
1	A	54	ASN
1	A	58	LEU
1	A	67	CYS
1	A	69	THR
1	A	73	GLY
1	A	76	GLU
1	A	84	ILE
1	A	130	ASP
1	A	154	SER
1	A	167	CYS
1	A	187	LYS
1	A	193	ASP
1	A	259	GLU
1	A	311	GLN
1	A	312	PRO
1	A	317	LYS
1	A	318	SER
1	A	385	ILE
1	A	410	GLY
1	A	439	ASN
1	A	536	LEU
1	A	567	LYS
1	A	583	PRO
1	A	603	ASN
1	A	641	VAL
1	A	666	ILE
1	A	775	ILE
1	A	846	GLU
1	A	852	TYR
1	A	875	ALA
1	A	916	GLY
1	A	968	GLN
1	A	973	ILE
1	A	1002	GLY
1	A	1016	THR
1	A	1036	ARG
1	A	1114	PRO
1	A	1115	SER

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Mol	Chain	Res	Type
1	A	1116	LEU
1	A	1120	LEU
1	A	1122	PRO
1	A	1167	GLU
1	A	1176	LEU
1	A	1177	LEU
1	A	1178	ASP
1	A	1202	MET
1	A	1212	VAL
1	A	1223	ASP
1	A	1233	ASP
1	A	1244	ARG
1	A	1255	GLU
1	A	1314	SER
1	A	1341	ILE
1	A	1361	SER
1	A	1365	TYR
1	A	1378	GLN
2	B	46	GLN
2	B	68	THR
2	B	108	VAL
2	B	124	TYR
2	B	186	GLU
2	B	229	ALA
2	B	282	ILE
2	B	344	LYS
2	B	345	LYS
2	B	346	GLU
2	B	365	THR
2	B	367	LEU
2	B	391	ASP
2	B	468	GLU
2	B	469	GLN
2	B	509	ALA
2	B	511	PRO
2	B	543	SER
2	B	566	LEU
2	B	575	PRO
2	B	629	ASP
2	B	705	MET
2	B	707	PRO
2	B	708	GLU

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Mol	Chain	Res	Type
2	B	712	PRO
2	B	723	VAL
2	B	751	VAL
2	B	855	PHE
2	B	867	GLY
2	B	879	ARG
2	B	882	THR
2	B	907	GLY
2	B	958	GLN
2	B	1041	GLU
2	B	1045	SER
2	B	1046	PRO
2	B	1069	PHE
2	B	1097	HIS
2	B	1156	ASP
2	B	1171	VAL
2	B	1175	LEU
2	B	1181	GLU
2	B	1183	LYS
3	C	6	PRO
3	C	56	THR
3	C	60	ASP
3	C	77	ILE
3	C	90	ASP
3	C	110	THR
3	C	133	ILE
3	C	141	GLY
3	C	149	LYS
3	C	161	LYS
3	C	173	ALA
3	C	174	ALA
3	C	175	ALA
3	C	215	GLU
3	C	216	GLY
3	C	237	SER
3	C	269	LYS
4	D	3	VAL
4	D	12	ARG
4	D	19	GLU
4	D	52	LEU
4	D	169	SER
5	E	43	LYS

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Mol	Chain	Res	Type
5	E	45	LYS
5	E	73	PRO
5	E	106	GLN
5	E	115	ASN
5	E	129	PRO
5	E	130	ALA
5	E	174	GLN
5	E	192	ARG
5	E	206	GLY
6	F	71	GLU
6	F	72	LYS
6	F	81	THR
6	F	139	PRO
7	G	2	PHE
7	G	120	THR
7	G	139	ILE
7	G	154	VAL
8	H	42	ILE
8	H	78	SER
8	H	84	ALA
8	H	87	ARG
8	H	92	ASP
8	H	128	ASN
8	H	131	ASN
8	H	140	ALA
9	I	8	ARG
9	I	11	ASN
9	I	79	HIS
9	I	95	THR
9	I	106	CYS
10	J	2	ILE
10	J	64	ASN
11	K	14	GLU
11	K	79	GLU
12	L	40	LEU
12	L	42	ARG
12	L	50	ASP
12	L	55	ILE
12	L	59	ALA
12	L	60	ARG
1	A	57	ARG
1	A	70	CYS

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Mol	Chain	Res	Type
1	A	74	MET
1	A	93	VAL
1	A	96	ILE
1	A	131	SER
1	A	148	CYS
1	A	281	HIS
1	A	283	GLY
1	A	313	GLN
1	A	332	LYS
1	A	399	HIS
1	A	419	LYS
1	A	556	TRP
1	A	591	PHE
1	A	600	PRO
1	A	619	LYS
1	A	706	HIS
1	A	719	VAL
1	A	752	LYS
1	A	780	VAL
1	A	789	LYS
1	A	871	ASP
1	A	922	ASP
1	A	969	GLN
1	A	972	HIS
1	A	1050	GLU
1	A	1064	VAL
1	A	1140	HIS
1	A	1206	ASP
1	A	1221	LYS
1	A	1279	ILE
1	A	1302	PRO
1	A	1316	VAL
1	A	1393	ASN
1	A	1437	GLY
2	B	21	GLU
2	B	45	SER
2	B	48	LEU
2	B	56	ASP
2	B	65	GLU
2	B	134	LYS
2	B	135	ARG
2	B	257	LYS

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Mol	Chain	Res	Type
2	B	259	TYR
2	B	277	LYS
2	B	278	GLN
2	B	312	GLU
2	B	327	ARG
2	B	341	LEU
2	B	364	ILE
2	B	450	ALA
2	B	470	LYS
2	B	483	LEU
2	B	506	GLY
2	B	512	ARG
2	B	577	ALA
2	B	709	ASP
2	B	727	LYS
2	B	752	ALA
2	B	754	SER
2	B	894	ASP
2	B	943	SER
2	B	951	GLN
2	B	956	THR
2	B	1075	GLY
2	B	1099	VAL
2	B	1100	ASP
2	B	1131	GLY
2	B	1167	GLY
2	B	1184	GLY
2	B	1223	ASP
3	C	61	GLU
3	C	78	GLU
3	C	128	ASN
3	C	240	VAL
4	D	20	GLU
4	D	47	LEU
4	D	119	ARG
4	D	131	GLU
4	D	192	LYS
4	D	218	GLU
4	D	220	LEU
5	E	3	GLN
5	E	76	GLY
5	E	97	VAL

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Mol	Chain	Res	Type
5	E	121	MET
6	F	150	GLU
7	G	63	PRO
7	G	64	THR
7	G	114	LEU
8	H	18	GLY
8	H	63	LEU
8	H	81	PRO
8	H	82	PRO
8	H	90	ALA
8	H	119	GLY
8	H	137	GLN
9	I	2	THR
9	I	3	THR
9	I	32	CYS
9	I	56	ALA
10	J	17	LYS
10	J	24	LEU
10	J	32	GLU
11	K	15	GLY
12	L	28	LYS
12	L	37	LYS
12	L	53	HIS
12	L	56	LEU
1	A	5	GLN
1	A	38	PRO
1	A	42	ASP
1	A	77	CYS
1	A	86	LEU
1	A	128	ILE
1	A	222	LEU
1	A	232	GLU
1	A	287	HIS
1	A	423	ASP
1	A	424	ILE
1	A	568	PRO
1	A	601	LYS
1	A	604	GLY
1	A	661	GLY
1	A	847	ASP
1	A	885	THR
1	A	979	SER

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Mol	Chain	Res	Type
1	A	1067	LEU
1	A	1105	LEU
1	A	1124	HIS
1	A	1127	ASP
1	A	1165	GLU
1	A	1229	SER
1	A	1331	SER
1	A	1405	THR
1	A	1450	LEU
2	B	37	PHE
2	B	100	PRO
2	B	184	ALA
2	B	265	SER
2	B	295	GLY
2	B	304	ASP
2	B	333	PHE
2	B	343	ILE
2	B	368	GLU
2	B	409	ALA
2	B	559	SER
2	B	591	ARG
2	B	711	GLU
2	B	746	SER
2	B	815	ARG
2	B	848	ARG
2	B	878	GLN
2	B	892	LYS
2	B	909	ASP
2	B	1003	ALA
2	B	1035	ALA
2	B	1082	MET
2	B	1126	GLY
2	B	1155	SER
2	B	1157	ALA
2	B	1176	ASN
3	C	132	PRO
3	C	142	VAL
3	C	213	PRO
4	D	21	GLU
4	D	25	ALA
4	D	32	GLU
4	D	59	ILE

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Mol	Chain	Res	Type
4	D	139	LYS
4	D	168	LYS
4	D	198	LEU
4	D	199	ASN
5	E	48	ASP
5	E	74	ASP
5	E	93	MET
5	E	104	ASN
5	E	173	SER
7	G	141	SER
8	H	2	SER
8	H	107	VAL
8	H	108	SER
8	H	109	LYS
8	H	110	ASP
9	I	47	GLU
10	J	6	ARG
10	J	18	TRP
1	A	55	ASP
1	A	59	GLY
1	A	63	ARG
1	A	126	LEU
1	A	164	ARG
1	A	190	ALA
1	A	196	GLU
1	A	257	ARG
1	A	286	HIS
1	A	300	VAL
1	A	322	VAL
1	A	330	LYS
1	A	409	SER
1	A	525	GLN
1	A	535	THR
1	A	557	ASP
1	A	592	ASP
1	A	738	LYS
1	A	765	VAL
1	A	854	ASN
1	A	1005	GLU
1	A	1068	ALA
1	A	1240	CYS
1	A	1242	VAL

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Mol	Chain	Res	Type
1	A	1366	ARG
1	A	1377	THR
1	A	1399	ARG
1	A	1402	PHE
2	B	41	LYS
2	B	115	GLN
2	B	131	ASP
2	B	267	ARG
2	B	531	GLN
2	B	642	ASP
2	B	688	GLY
2	B	699	GLU
2	B	868	MET
2	B	881	ASN
2	B	891	ASP
2	B	1017	ILE
3	C	108	GLU
3	C	191	TYR
3	C	214	ASN
4	D	4	SER
4	D	13	ARG
4	D	118	THR
5	E	122	LYS
5	E	179	GLN
7	G	118	ASP
8	H	17	PRO
8	H	41	ASP
8	H	52	GLN
8	H	83	GLN
9	I	93	LYS
9	I	107	SER
10	J	9	SER
10	J	14	VAL
10	J	33	GLY
12	L	35	SER
1	A	35	ILE
1	A	52	GLY
1	A	113	LEU
1	A	234	MET
1	A	294	SER
1	A	917	SER
1	A	958	VAL

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Mol	Chain	Res	Type
1	A	986	ILE
1	A	1006	ILE
1	A	1133	LEU
1	A	1211	GLN
2	B	24	PRO
2	B	49	ASP
2	B	171	PRO
2	B	283	VAL
2	B	311	LEU
2	B	456	GLY
2	B	480	SER
2	B	510	LYS
2	B	579	ARG
2	B	594	ALA
2	B	643	ASP
2	B	655	LYS
2	B	793	ALA
2	B	1042	GLY
3	C	11	ARG
4	D	191	ALA
5	E	56	LYS
5	E	148	GLU
7	G	20	PRO
8	H	21	ASN
8	H	132	LEU
10	J	13	VAL
10	J	42	LYS
12	L	36	SER
12	L	46	VAL
1	A	24	PRO
1	A	170	THR
1	A	314	ALA
1	A	517	ASN
1	A	652	VAL
1	A	704	ALA
1	A	818	MET
1	A	845	LEU
1	A	1454	MET
2	B	67	SER
2	B	219	ALA
2	B	903	VAL
2	B	1080	LYS

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Mol	Chain	Res	Type
2	B	1214	PRO
3	C	3	GLU
3	C	36	VAL
3	C	89	GLU
3	C	218	PRO
10	J	55	ASP
12	L	25	ALA
1	A	231	PRO
1	A	244	PRO
1	A	910	PRO
2	B	436	VAL
2	B	478	GLY
2	B	503	GLY
3	C	25	VAL
8	H	120	GLY
1	A	258	GLY
2	B	315	LYS
2	B	780	VAL
9	I	62	ILE
1	A	250	ILE
2	B	305	VAL
2	B	636	PRO
2	B	744	HIS
5	E	86	PRO
7	G	92	VAL
9	I	57	GLY
10	J	57	ILE
1	A	51	GLY
1	A	197	PRO
1	A	718	VAL
1	A	1162	VAL
2	B	114	PRO
2	B	464	GLY
2	B	658	ILE
5	E	53	PRO
8	H	12	VAL
1	A	78	PRO
2	B	334	ILE
3	C	10	ILE
8	H	44	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1249/1520 (82%)	1126 (90%)	123 (10%)	8 31
2	B	974/1061 (92%)	888 (91%)	86 (9%)	10 37
3	C	238/280 (85%)	219 (92%)	19 (8%)	12 41
4	D	164/200 (82%)	145 (88%)	19 (12%)	5 26
5	E	196/197 (100%)	182 (93%)	14 (7%)	14 44
6	F	78/137 (57%)	70 (90%)	8 (10%)	7 30
7	G	152/152 (100%)	144 (95%)	8 (5%)	22 52
8	H	121/128 (94%)	111 (92%)	10 (8%)	11 39
9	I	111/116 (96%)	102 (92%)	9 (8%)	11 40
10	J	60/65 (92%)	55 (92%)	5 (8%)	11 39
11	K	99/102 (97%)	89 (90%)	10 (10%)	7 30
12	L	41/57 (72%)	34 (83%)	7 (17%)	2 14
All	All	3483/4015 (87%)	3165 (91%)	318 (9%)	9 35

All (318) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	18	GLN
1	A	34	LYS
1	A	37	PHE
1	A	38	PRO
1	A	41	MET
1	A	54	ASN
1	A	70	CYS
1	A	83	HIS
1	A	85	ASP
1	A	93	VAL
1	A	157	ASP
1	A	185	TRP
1	A	200	ARG
1	A	236	LEU

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Mol	Chain	Res	Type
1	A	245	PRO
1	A	262	LEU
1	A	265	LYS
1	A	275	SER
1	A	307	ASP
1	A	312	PRO
1	A	320	ARG
1	A	322	VAL
1	A	326	ARG
1	A	332	LYS
1	A	335	ARG
1	A	352	VAL
1	A	379	VAL
1	A	385	ILE
1	A	406	ILE
1	A	408	ASP
1	A	412	ARG
1	A	438	ASP
1	A	442	VAL
1	A	443	LEU
1	A	445	ASN
1	A	449	SER
1	A	450	LEU
1	A	451	HIS
1	A	453	MET
1	A	454	SER
1	A	466	SER
1	A	489	LEU
1	A	493	GLN
1	A	503	GLN
1	A	511	ILE
1	A	518	LYS
1	A	540	PHE
1	A	542	GLU
1	A	552	TRP
1	A	557	ASP
1	A	590	ARG
1	A	618	GLU
1	A	634	THR
1	A	635	ARG
1	A	711	ARG
1	A	720	ARG

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Mol	Chain	Res	Type
1	A	727	ASP
1	A	740	LEU
1	A	774	ARG
1	A	779	PHE
1	A	821	ARG
1	A	833	GLU
1	A	842	VAL
1	A	858	ASN
1	A	871	ASP
1	A	903	ASN
1	A	918	GLU
1	A	920	LEU
1	A	929	LEU
1	A	940	ARG
1	A	942	PHE
1	A	947	PHE
1	A	948	VAL
1	A	949	ASP
1	A	976	THR
1	A	995	GLU
1	A	1001	ARG
1	A	1017	LEU
1	A	1019	CYS
1	A	1029	ARG
1	A	1035	TYR
1	A	1037	LEU
1	A	1067	LEU
1	A	1077	THR
1	A	1111	MET
1	A	1120	LEU
1	A	1122	PRO
1	A	1124	HIS
1	A	1128	GLN
1	A	1166	ASP
1	A	1170	ILE
1	A	1178	ASP
1	A	1206	ASP
1	A	1233	ASP
1	A	1239	ARG
1	A	1240	CYS
1	A	1245	PRO
1	A	1255	GLU

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Mol	Chain	Res	Type
1	A	1257	ASP
1	A	1259	MET
1	A	1260	LEU
1	A	1264	GLU
1	A	1280	GLU
1	A	1288	ASP
1	A	1295	THR
1	A	1297	GLU
1	A	1300	LYS
1	A	1308	THR
1	A	1314	SER
1	A	1332	PHE
1	A	1333	ILE
1	A	1336	MET
1	A	1359	ASP
1	A	1364	ASN
1	A	1366	ARG
1	A	1389	PHE
1	A	1391	ARG
1	A	1393	ASN
1	A	1394	THR
1	A	1400	CYS
1	A	1443	VAL
1	A	1445	ILE
1	A	1454	MET
2	B	20	ASP
2	B	31	TRP
2	B	57	TYR
2	B	61	ASP
2	B	100	PRO
2	B	164	LYS
2	B	166	PHE
2	B	167	ILE
2	B	169	ARG
2	B	175	ARG
2	B	180	TYR
2	B	194	GLU
2	B	203	PHE
2	B	217	ARG
2	B	268	THR
2	B	272	THR
2	B	332	ASP

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Mol	Chain	Res	Type
2	B	364	ILE
2	B	365	THR
2	B	371	GLU
2	B	378	LEU
2	B	393	LYS
2	B	396	ASP
2	B	429	PHE
2	B	465	ASN
2	B	466	TRP
2	B	473	MET
2	B	485	ARG
2	B	502	ILE
2	B	510	LYS
2	B	516	ASN
2	B	555	ILE
2	B	563	MET
2	B	572	HIS
2	B	582	VAL
2	B	591	ARG
2	B	603	LEU
2	B	609	ILE
2	B	615	MET
2	B	616	ILE
2	B	636	PRO
2	B	680	THR
2	B	694	ASP
2	B	737	THR
2	B	742	GLU
2	B	743	ILE
2	B	776	GLN
2	B	785	TYR
2	B	790	ASP
2	B	811	TYR
2	B	830	TYR
2	B	839	MET
2	B	854	LEU
2	B	860	MET
2	B	868	MET
2	B	878	GLN
2	B	879	ARG
2	B	894	ASP
2	B	895	ASP

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Mol	Chain	Res	Type
2	B	909	ASP
2	B	918	ILE
2	B	944	THR
2	B	978	ASP
2	B	999	MET
2	B	1046	PRO
2	B	1047	PHE
2	B	1069	PHE
2	B	1076	HIS
2	B	1077	THR
2	B	1084	GLN
2	B	1087	PHE
2	B	1095	LEU
2	B	1097	HIS
2	B	1098	MET
2	B	1103	ILE
2	B	1113	VAL
2	B	1150	ARG
2	B	1151	LEU
2	B	1159	ARG
2	B	1163	CYS
2	B	1170	THR
2	B	1182	CYS
2	B	1189	ILE
2	B	1218	THR
2	B	1221	SER
2	B	1223	ASP
3	C	1	MET
3	C	35	ARG
3	C	38	ILE
3	C	56	THR
3	C	58	LEU
3	C	62	PHE
3	C	77	ILE
3	C	91	HIS
3	C	104	PHE
3	C	106	GLU
3	C	138	GLU
3	C	147	LEU
3	C	166	GLU
3	C	193	TYR
3	C	209	TYR

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Mol	Chain	Res	Type
3	C	226	ASP
3	C	233	GLU
3	C	235	VAL
3	C	250	THR
4	D	8	PHE
4	D	13	ARG
4	D	15	LEU
4	D	21	GLU
4	D	22	GLU
4	D	40	HIS
4	D	47	LEU
4	D	63	LEU
4	D	70	PHE
4	D	118	THR
4	D	127	ASP
4	D	137	ASN
4	D	148	LEU
4	D	149	THR
4	D	189	ASP
4	D	211	LEU
4	D	214	LEU
4	D	215	SER
4	D	221	TYR
5	E	17	ARG
5	E	31	THR
5	E	52	ARG
5	E	60	PHE
5	E	74	ASP
5	E	96	PHE
5	E	104	ASN
5	E	114	ASN
5	E	132	ILE
5	E	149	LEU
5	E	169	ARG
5	E	173	SER
5	E	178	ILE
5	E	190	LEU
6	F	71	GLU
6	F	72	LYS
6	F	79	ARG
6	F	99	LEU
6	F	116	ASP

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Mol	Chain	Res	Type
6	F	118	LEU
6	F	148	VAL
6	F	151	LEU
7	G	1	MET
7	G	13	LEU
7	G	21	ARG
7	G	52	ASP
7	G	73	LYS
7	G	74	TYR
7	G	79	PHE
7	G	94	CYS
8	H	17	PRO
8	H	42	ILE
8	H	63	LEU
8	H	64	ASN
8	H	86	ASP
8	H	88	SER
8	H	89	LEU
8	H	95	TYR
8	H	102	TYR
8	H	110	ASP
9	I	4	PHE
9	I	6	PHE
9	I	7	CYS
9	I	8	ARG
9	I	85	PHE
9	I	86	PHE
9	I	94	ASP
9	I	100	PHE
9	I	101	PHE
10	J	23	ASN
10	J	43	ARG
10	J	44	TYR
10	J	46	CYS
10	J	48	ARG
11	K	5	ASP
11	K	6	ARG
11	K	10	PHE
11	K	25	THR
11	K	47	ARG
11	K	50	LEU
11	K	61	TYR

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Mol	Chain	Res	Type
11	K	81	TYR
11	K	111	LEU
11	K	114	LEU
12	L	27	LEU
12	L	34	CYS
12	L	54	ARG
12	L	55	ILE
12	L	65	VAL
12	L	68	GLU
12	L	70	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (120) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	68	GLN
1	A	83	HIS
1	A	92	HIS
1	A	109	HIS
1	A	169	ASN
1	A	225	ASN
1	A	256	GLN
1	A	299	HIS
1	A	306	ASN
1	A	339	ASN
1	A	358	ASN
1	A	399	HIS
1	A	435	HIS
1	A	445	ASN
1	A	447	GLN
1	A	493	GLN
1	A	603	ASN
1	A	659	HIS
1	A	700	ASN
1	A	736	ASN
1	A	741	ASN
1	A	757	ASN
1	A	767	GLN
1	A	768	GLN
1	A	786	HIS
1	A	851	HIS
1	A	858	ASN
1	A	903	ASN

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Mol	Chain	Res	Type
1	A	926	GLN
1	A	935	GLN
1	A	968	GLN
1	A	975	HIS
1	A	1106	ASN
1	A	1130	GLN
1	A	1140	HIS
1	A	1188	GLN
1	A	1203	ASN
1	A	1278	ASN
1	A	1312	ASN
1	A	1364	ASN
1	A	1393	ASN
1	A	1427	ASN
1	A	1432	GLN
2	B	46	GLN
2	B	60	GLN
2	B	178	ASN
2	B	224	GLN
2	B	236	HIS
2	B	366	GLN
2	B	465	ASN
2	B	484	ASN
2	B	499	ASN
2	B	515	HIS
2	B	516	ASN
2	B	518	HIS
2	B	538	ASN
2	B	587	HIS
2	B	686	ASN
2	B	706	GLN
2	B	744	HIS
2	B	763	GLN
2	B	786	ASN
2	B	821	GLN
2	B	842	ASN
2	B	862	GLN
2	B	951	GLN
2	B	975	GLN
2	B	1015	HIS
2	B	1065	GLN
2	B	1076	HIS

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Mol	Chain	Res	Type
2	B	1084	GLN
2	B	1117	GLN
2	B	1178	ASN
2	B	1179	GLN
2	B	1193	GLN
3	C	24	ASN
3	C	65	HIS
3	C	73	GLN
3	C	79	GLN
3	C	102	GLN
3	C	112	ASN
3	C	140	ASN
3	C	167	HIS
3	C	252	GLN
4	D	2	ASN
4	D	9	GLN
4	D	31	GLN
4	D	39	ASN
4	D	40	HIS
4	D	74	GLN
4	D	137	ASN
4	D	138	ASN
4	D	143	ASN
5	E	32	GLN
5	E	99	HIS
5	E	101	GLN
5	E	104	ASN
5	E	114	ASN
5	E	147	HIS
6	F	100	GLN
7	G	53	ASN
7	G	122	ASN
7	G	126	ASN
8	H	33	GLN
8	H	131	ASN
8	H	137	GLN
9	I	12	ASN
9	I	89	GLN
9	I	90	GLN
9	I	108	HIS
9	I	114	GLN
10	J	64	ASN

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Mol	Chain	Res	Type
11	K	29	ASN
11	K	44	ASN
11	K	52	ASN
11	K	65	HIS
11	K	76	GLN
11	K	104	ASN
11	K	110	ASN
12	L	53	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
15	P	9/16 (56%)	2 (22%)	0

All (2) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
15	P	10	A
15	P	11	U

There are no RNA pucker outliers to report.

5.4 Non-standard residues in protein, DNA, RNA chains

2 non-standard protein/DNA/RNA residues are modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
13	8OG	T	19	15,13	22,25,26	1.04	1 (4%)	30,37,40	1.47	3 (10%)
13	BRU	T	23	15,13	18,21,22	3.92	1 (5%)	26,30,33	0.98	2 (7%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
13	8OG	T	19	15,13	-	2/7/21/22	0/3/3/3
13	BRU	T	23	15,13	-	1/7/21/22	0/2/2/2

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	T	23	BRU	BR-C5	-16.55	1.49	1.88
13	T	19	8OG	C8-N7	-3.92	1.30	1.38

All (5) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	T	19	8OG	N7-C8-N9	5.56	113.18	106.58
13	T	19	8OG	C5-N7-C8	-3.67	104.19	109.47
13	T	23	BRU	C6-C5-C4	-2.58	118.05	120.67
13	T	19	8OG	C4-C5-N7	2.46	110.81	106.08
13	T	23	BRU	O3'-C3'-C2'	-2.17	103.15	110.90

There are no chirality outliers.

All (3) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
13	T	19	8OG	O4'-C4'-C5'-O5'
13	T	19	8OG	C3'-C4'-C5'-O5'
13	T	23	BRU	C2'-C1'-N1-C2

There are no ring outliers.

2 monomers are involved in 5 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
13	T	19	8OG	3	0
13	T	23	BRU	2	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry

Of 9 ligands modelled in this entry, 9 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	1429/1733 (82%)	-0.21	3 (0%) 95 93	73, 132, 187, 200	0
2	B	1125/1224 (91%)	-0.05	15 (1%) 77 68	79, 146, 196, 200	0
3	C	270/324 (83%)	-0.21	1 (0%) 92 87	92, 133, 183, 200	0
4	D	182/221 (82%)	-0.18	3 (1%) 72 62	122, 160, 195, 200	0
5	E	214/215 (99%)	-0.21	1 (0%) 91 85	111, 170, 198, 200	0
6	F	88/155 (56%)	-0.26	0 100 100	77, 110, 145, 175	0
7	G	171/171 (100%)	-0.16	0 100 100	113, 140, 176, 182	0
8	H	137/146 (93%)	0.28	7 (5%) 28 23	147, 178, 198, 200	0
9	I	117/122 (95%)	-0.01	4 (3%) 45 35	126, 178, 197, 200	0
10	J	65/70 (92%)	-0.30	0 100 100	112, 129, 171, 180	0
11	K	116/120 (96%)	-0.23	2 (1%) 70 60	96, 135, 160, 199	0
12	L	47/70 (67%)	-0.14	0 100 100	128, 169, 190, 200	0
13	T	18/26 (69%)	0.30	0 100 100	182, 200, 200, 200	0
14	N	11/12 (91%)	0.80	0 100 100	196, 200, 200, 200	0
15	P	10/16 (62%)	-0.14	0 100 100	199, 200, 200, 200	0
All	All	4000/4625 (86%)	-0.14	36 (0%) 84 77	73, 142, 196, 200	0

All (36) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
2	B	471	LYS	7.2
2	B	504	ARG	4.0
9	I	1	MET	3.9
4	D	76	LYS	3.5
8	H	140	ALA	3.4
2	B	503	GLY	3.3
2	B	722	ASP	3.2

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Mol	Chain	Res	Type	RSRZ
2	B	883	LEU	3.1
2	B	470	LYS	3.0
11	K	116	ALA	2.9
8	H	142	LEU	2.9
2	B	505	ASP	2.8
2	B	468	GLU	2.8
2	B	507	LYS	2.7
11	K	115	ALA	2.6
2	B	341	LEU	2.6
8	H	146	ARG	2.5
2	B	339	THR	2.5
8	H	84	ALA	2.4
4	D	1	MET	2.3
8	H	83	GLN	2.3
2	B	723	VAL	2.3
2	B	865	LYS	2.3
2	B	724	ASP	2.2
8	H	143	LEU	2.2
9	I	102	VAL	2.2
3	C	2	SER	2.2
4	D	2	ASN	2.1
1	A	145	LYS	2.1
1	A	1150	SER	2.1
8	H	61	SER	2.1
9	I	84	VAL	2.1
1	A	1455	PRO	2.1
5	E	82	PHE	2.0
2	B	866	TYR	2.0
9	I	26	LEU	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
13	BRU	T	23	20/21	0.71	0.23	198,199,200,200	0
13	8OG	T	19	23/24	0.91	0.17	186,193,198,199	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
16	MG	A	2458	1/1	0.93	0.09	200,200,200,200	0
17	ZN	I	1122	1/1	0.95	0.05	198,198,198,198	0
17	ZN	A	2456	1/1	0.97	0.06	150,150,150,150	0
17	ZN	B	2225	1/1	0.99	0.22	106,106,106,106	0
17	ZN	A	2457	1/1	0.99	0.15	107,107,107,107	0
17	ZN	J	1066	1/1	0.99	0.27	135,135,135,135	0
17	ZN	L	1071	1/1	0.99	0.08	158,158,158,158	0
17	ZN	I	1121	1/1	1.00	0.12	140,140,140,140	0
17	ZN	C	1269	1/1	1.00	0.14	101,101,101,101	0

6.5 Other polymers (i)

There are no such residues in this entry.