Full wwPDB EM Validation Report ⓘ

Nov 1, 2022 – 03:14 PM EDT

PDB ID	:	5JUL
EMDB ID	:	EMD-8177
Title	:	Near atomic structure of the Dark apoptosome
Authors	:	Cheng, T.C.; Akey, I.V.; Yuan, S.; Yu, Z.; Ludtke, S.J.; Akey, C.W.
Deposited on	:	2016-05-10
Resolution	:	4.40 Å(reported)

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

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

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

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

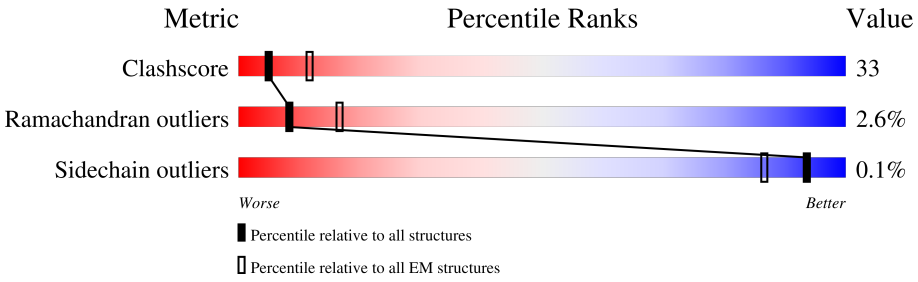
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.2

1 Overall quality at a glance

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

The reported resolution of this entry is 4.40 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	1440	45% 48% 35% · 14%
1	B	1440	45% 47% 36% · 14%
1	C	1440	45% 47% 36% · 14%
1	D	1440	45% 46% 36% · 14%
1	E	1440	45% 48% 35% · 14%
1	F	1440	45% 47% 36% · 14%
1	G	1440	45% 47% 35% · 14%
1	H	1440	45% 47% 35% · 14%

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Mol	Chain	Length	Quality of chain
1	I	1440	45% 47% 36% 14%
1	J	1440	45% 48% 35% 14%
1	K	1440	45% 47% 36% 14%
1	L	1440	45% 47% 36% 14%
1	M	1440	45% 47% 36% 14%
1	N	1440	45% 47% 35% 14%
1	O	1440	45% 47% 36% 14%
1	P	1440	45% 47% 35% 14%

2 Entry composition (i)

There are 2 unique types of molecules in this entry. The entry contains 161200 atoms, of which 0 are hydrogens and 0 are deuteriums.

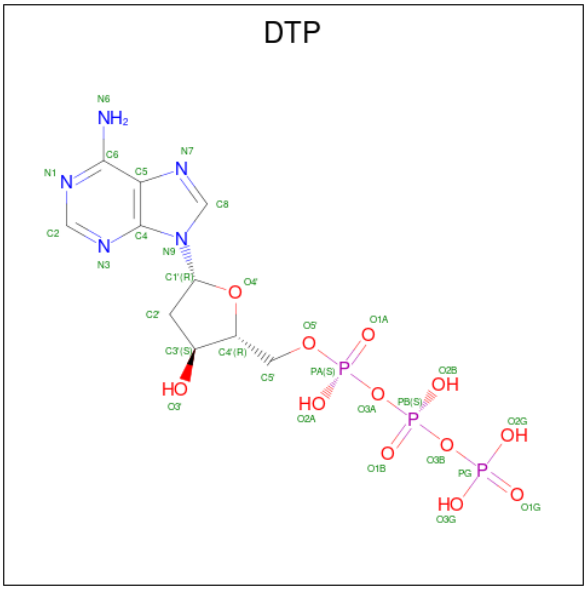
In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Apaf-1 related killer DARK.

Mol	Chain	Residues	Atoms						AltConf	Trace
1	A	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	B	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	C	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	D	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	E	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	F	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	G	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	H	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	I	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	J	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	K	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	L	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	M	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	N	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	O	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		
1	P	1233	Total	C	N	O	P	S	0	0
			10045	6434	1698	1860	1	52		

- Molecule 2 is 2'-DEOXYADENOSINE 5'-TRIPHOSPHATE (three-letter code: DTP) (for-

mula: $C_{10}H_{16}N_5O_{12}P_3$).



Mol	Chain	Residues	Atoms					AltConf
2	A	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	B	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	C	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	D	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	E	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	F	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	G	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	H	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	I	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	J	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	K	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	L	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	M	1	Total	C	N	O	P	0
			30	10	5	12	3	

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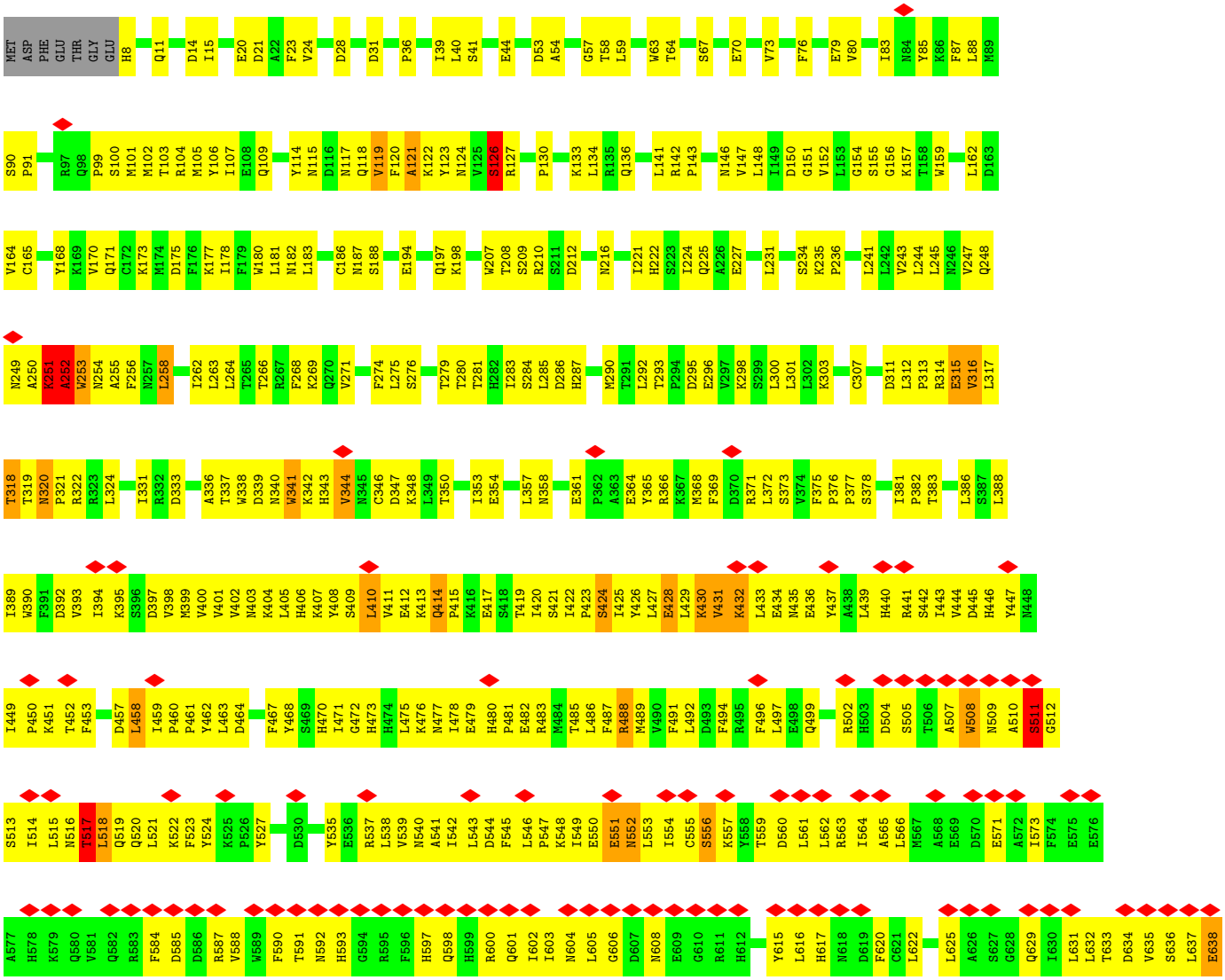
Mol	Chain	Residues	Atoms					AltConf
2	N	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	O	1	Total	C	N	O	P	0
			30	10	5	12	3	
2	P	1	Total	C	N	O	P	0
			30	10	5	12	3	

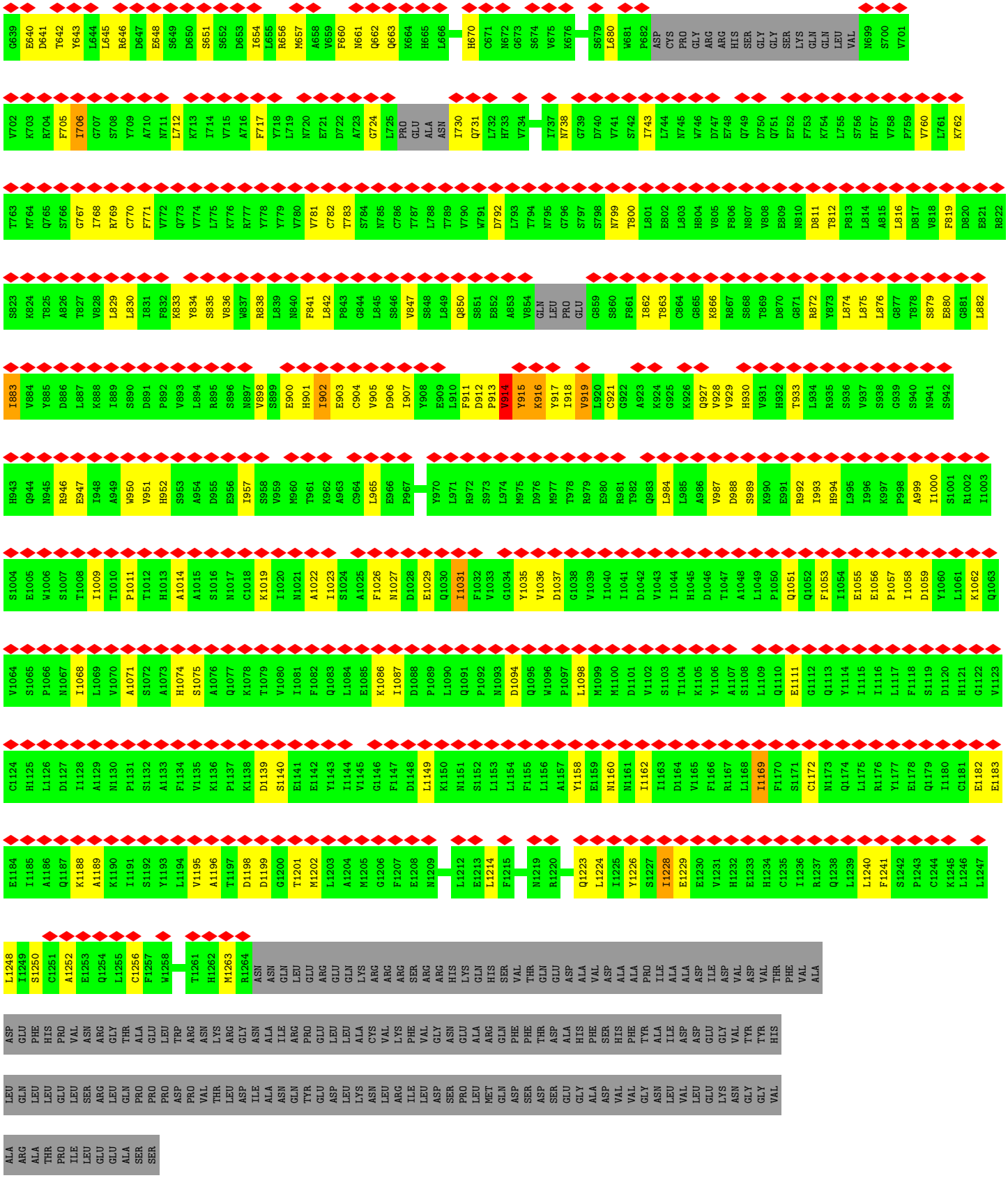
3 Residue-property plots (i)

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

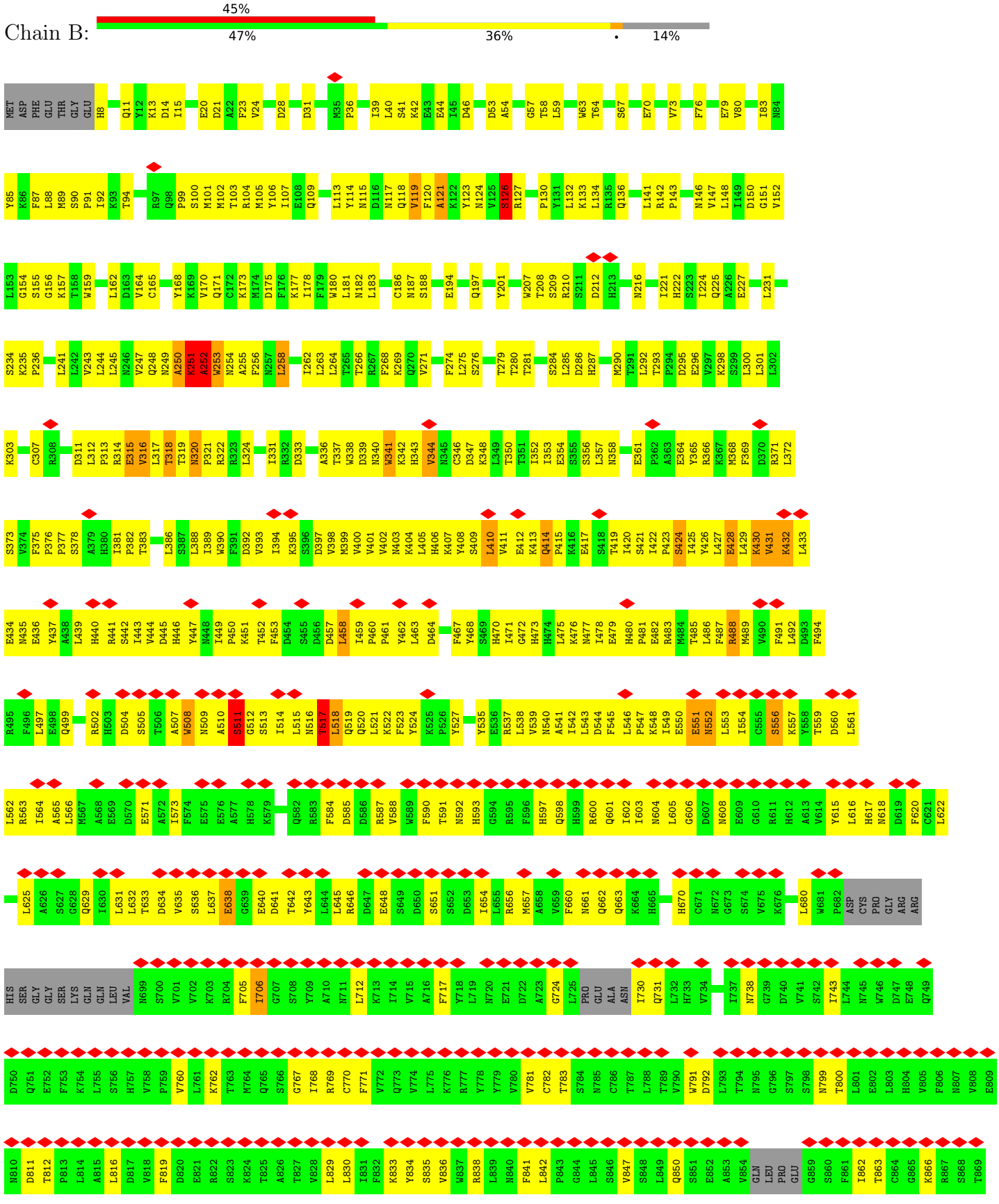
- Molecule 1: Apaf-1 related killer DARK

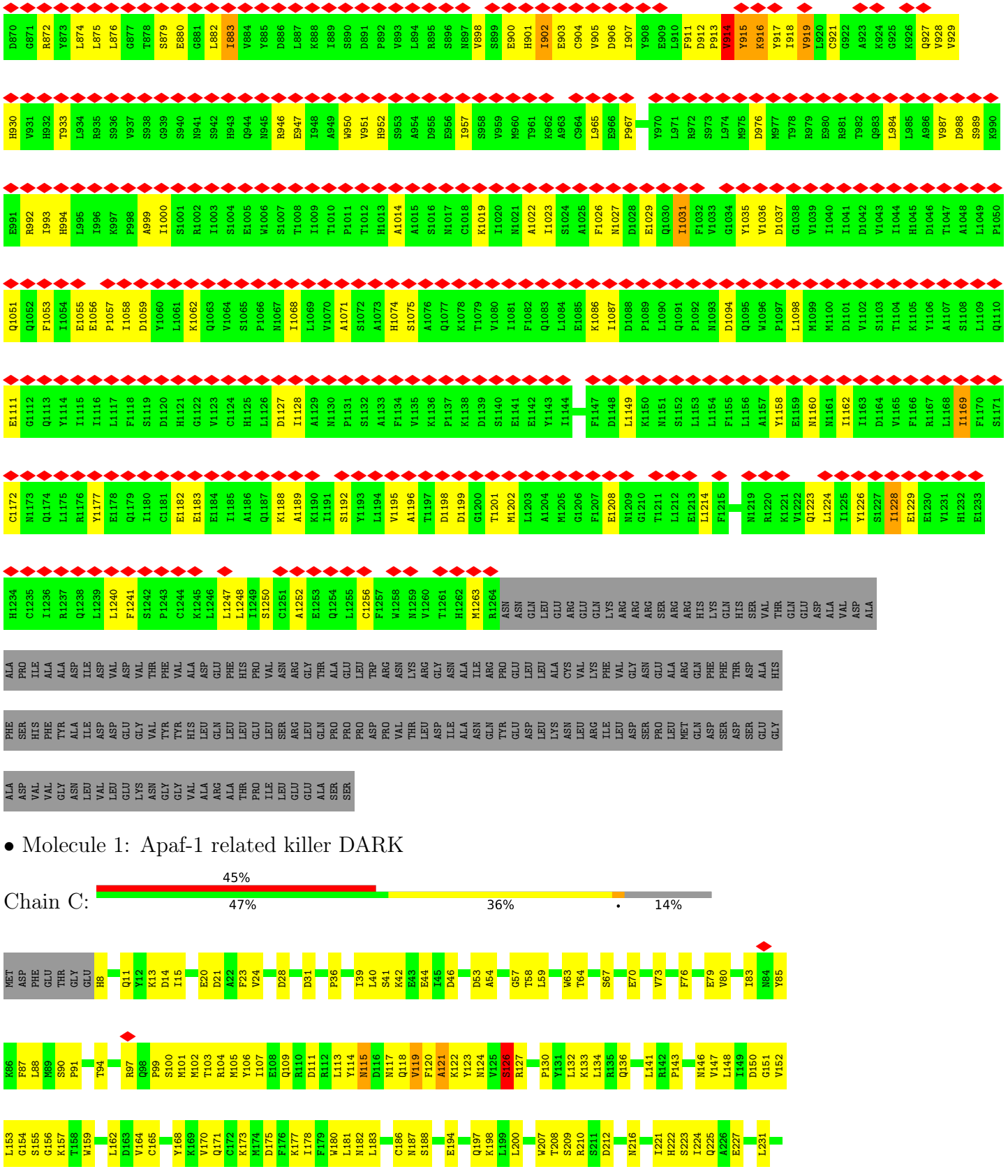
Chain A:





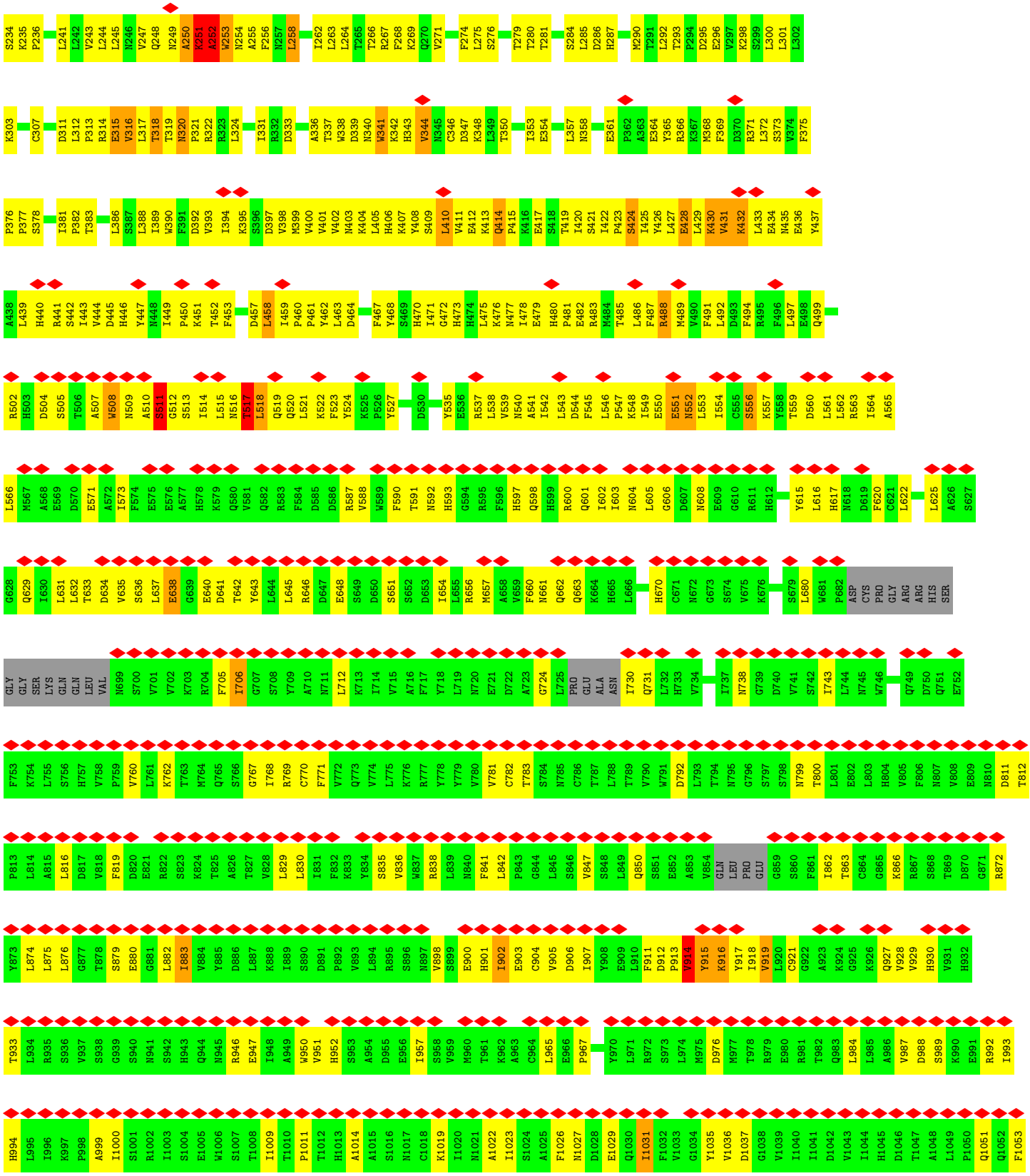
• Molecule 1: Apaf-1 related killer DARK


Chain B:
45%
47%
36%
14%



- Molecule 1: Apaf-1 related killer DARK

Chain C: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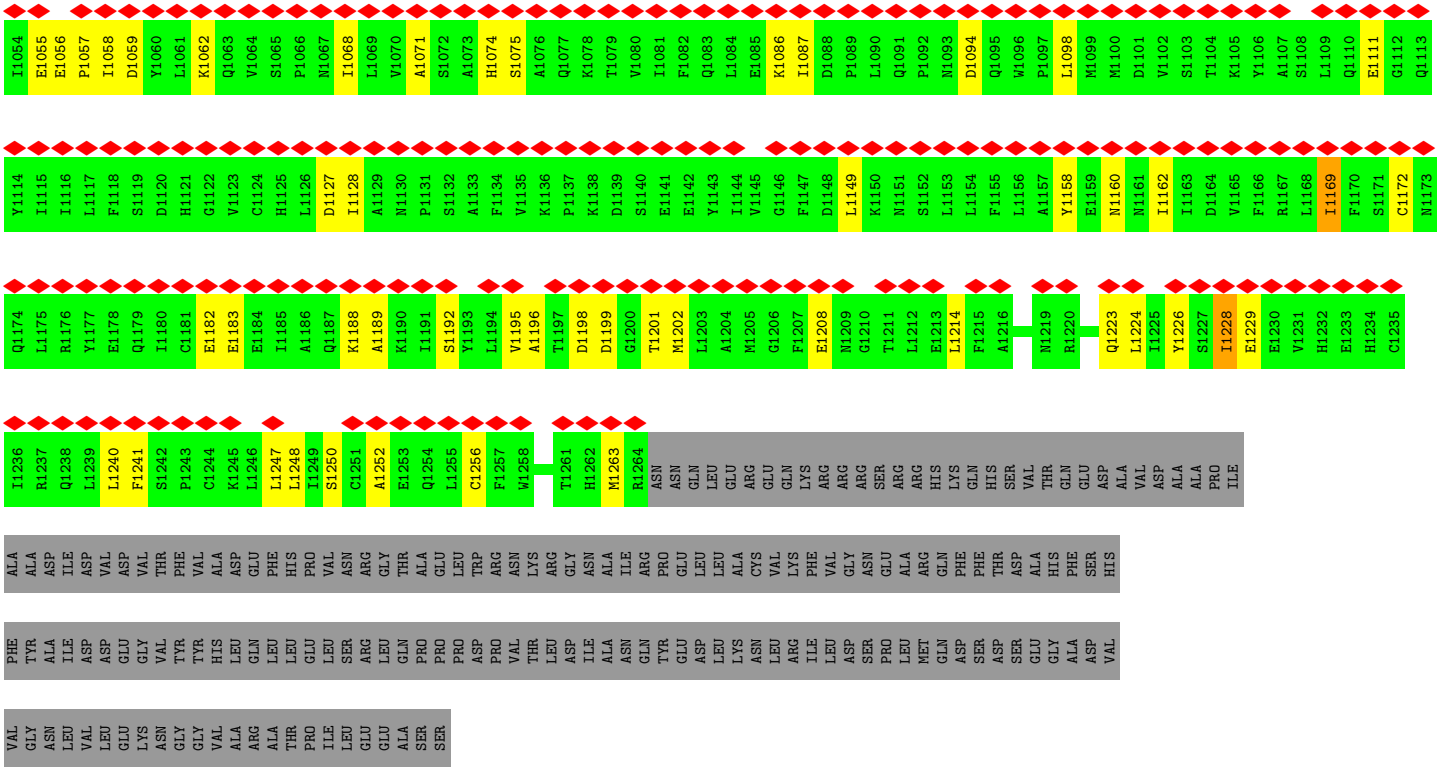
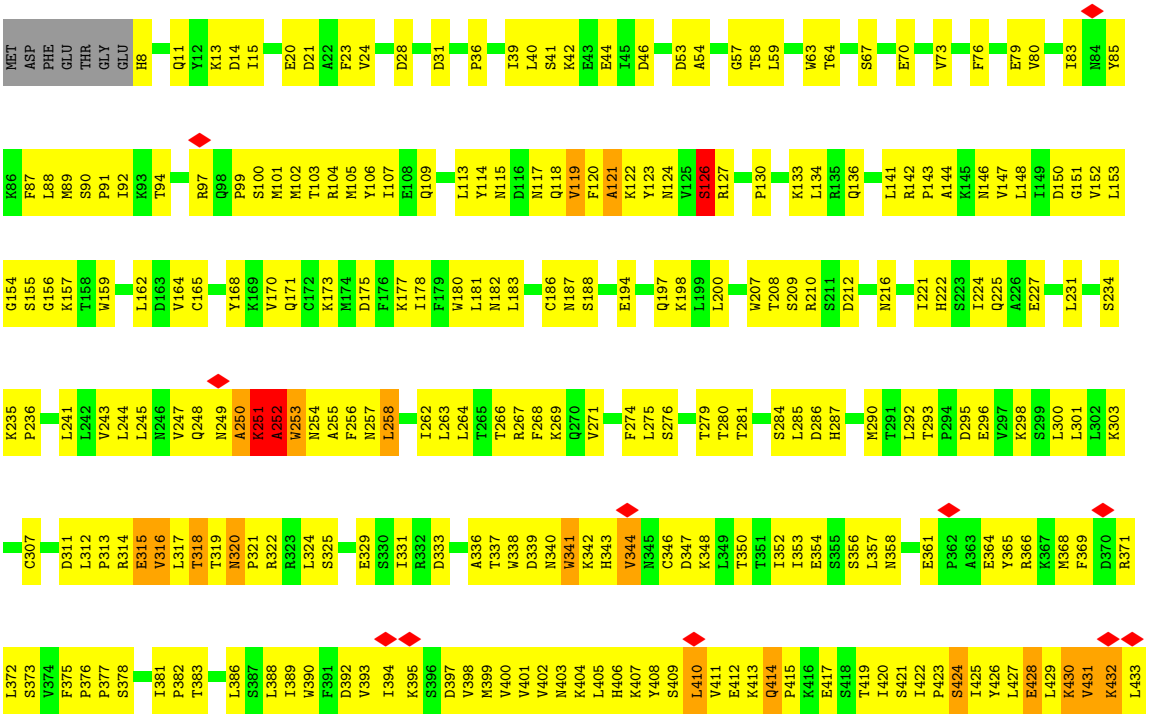
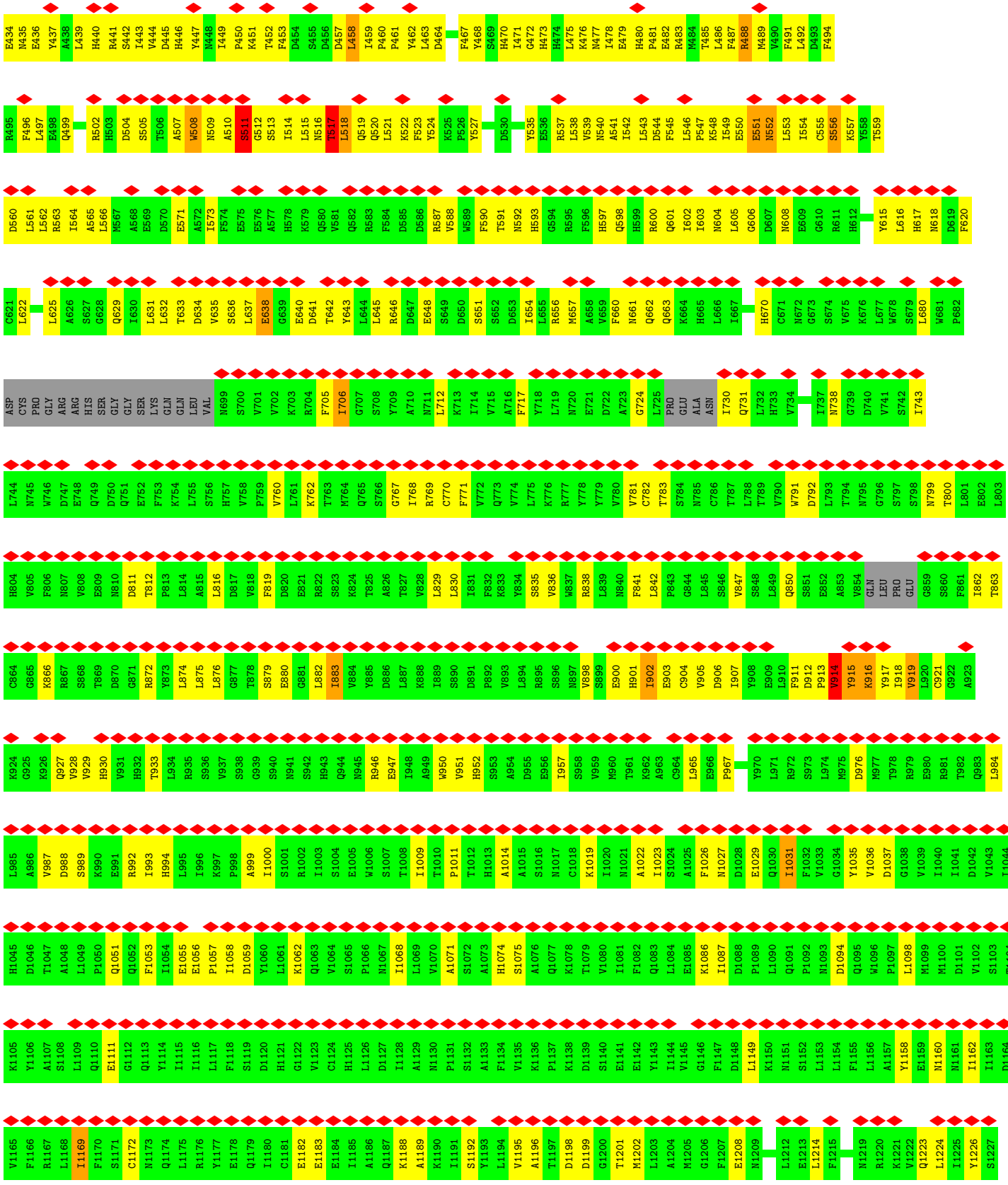
K303 C307 D311 L312 P313 R314 E315 V316 L317 T318 T319 N320 P321 R322 R323 L324 I331 R332 D333 A336 T337 W338 D339 N340 W341 K342 H343 V344 N345 C346 D347 K348 L349 T350 I353 E354 L357 N358 E361 P362 A363 E364 Y365 R366 K367 M368 F369 D370 R371 L372 S373 V374 F375
P376 P377 S378 I381 P382 T383 L386 S387 L388 I389 W390 F391 D392 V393 I394 K395 S396 D397 V398 M399 V400 V401 V402 N403 K404 L405 H406 K407 Y408 S409 L410 V411 E412 K413 Q414 P415 K416 E417 S418 T419 I420 S421 I422 P423 S424 I425 Y426 L427 E428 L429 K430 V431 K432 L433 E434 N435 E436 Y437
A438 L439 H440 R441 S442 I443 V444 D445 H446 Y447 N448 I449 P450 K451 T452 F453 D457 L458 I459 P460 P461 Y462 L463 D464 F467 Y468 S469 H470 I471 G472 H473 H474 L475 K476 N477 I478 E479 H480 P481 E482 R483 M484 T485 L486 F487 R488 M489 V490 F491 L492 D493 F494 R495 F496 L497 E498 Q499
R502 H503 D504 S505 T506 A507 W508 N509 A510 S511 G512 S513 I514 L515 N516 T517 L518 Q519 Q520 L521 K522 F523 Y524 K525 P526 Y527 D530 Y535 E536 R537 L538 V539 N540 A541 I542 L543 D544 F545 L546 P547 K548 I549 E550 E551 N552 L553 I554 C555 S556 K557 Y558 T559 D560 L561 L562 R563 I564 A565
L566 M567 A568 E569 D570 E571 A572 I573 F574 E575 E576 A577 H578 K579 Q580 V581 Q582 R583 F584 D585 D586 R587 V588 W589 F590 T591 N592 H593 G594 R595 F596 H597 Q598 H599 R600 Q601 I602 I603 N604 L605 G606 D607 N608 E609 G610 R611 H612 Y615 L616 H617 N618 D619 F620 C621 L622 L625 A626 S627
G628 Q629 I630 L631 L632 T633 D634 V635 S636 L637 E638 G639 E640 D641 T642 Y643 L644 L645 R646 D647 E648 S649 D650 S651 S652 D653 I654 L655 R656 M657 A658 V659 F660 N661 Q662 Q663 K664 H665 L666 H670 C671 N672 G673 S674 V675 K676 S679 L680 W681 P682 ASP CYS PRO GLY ARG ARG HIS SER
GLY GLY SER LYS GLN GLN LEU VAL N699 S700 V701 V702 K703 R704 F705 I706 G707 S708 Y709 A710 N711 L712 K713 I714 V715 A716 F717 Y718 L719 N720 E721 D722 A723 G724 L725 PRO GLU ALA ASN I730 Q731 L732 H733 V734 I737 N738 G739 D740 V741 S742 I743 L744 N745 W746 Q749 D750 Q751 E752
F753 K754 L755 S756 H757 V758 P759 V760 L761 K762 T763 M764 Q765 S766 G767 I768 R769 C770 F771 V772 Q773 V774 L775 K776 R777 Y778 Y779 V780 V781 C782 T783 S784 N785 C786 T787 L788 T789 V790 W791 D792 L793 T794 N795 G796 S797 S798 N799 T800 L801 E802 L803 H804 V805 F806 N807 V808 E809 N810 D811 T812
P813 L814 A815 L816 D817 V818 F819 D820 E821 R822 S823 K824 T825 A826 T827 V828 L829 L830 I831 F832 K833 Y834 S835 V836 W837 R838 L839 N840 F841 L842 P843 G844 L845 S846 V847 S848 L849 Q850 S851 E852 A853 V854 GLN LEU PRO GLU G859 S860 F861 I862 T863 C864 G865 K866 R867 S868 T869 D870 G871 R872
Y873 L874 L875 L876 G877 T878 S879 E880 G881 L882 I883 V884 Y885 D886 L887 K888 I889 S890 D891 P892 V893 L894 R895 S896 N897 V898 S899 E900 H901 I902 E903 C904 V905 D906 I907 Y908 E909 L910 F911 D912 P913 V914 Y915 K916 Y917 I918 V919 L920 C921 G922 A923 K924 G925 K926 Q927 V928 V929 H930 V931 H932
T933 L934 R935 S936 V937 S938 G939 S940 N941 S942 H943 Q944 N945 R946 E947 I948 A949 W950 V951 H952 S953 A954 D955 E956 I957 S958 V959 M960 T961 K962 A963 C964 L965 E966 P967 Y970 L971 R972 S973 L974 M975 D976 M977 T978 R979 E980 R981 T982 Q983 L984 L985 A986 V987 D988 S989 K990 E991 R992 I993
H994 L995 I996 K997 P998 A999 I1000 S1001 R1002 I1003 S1004 E1005 W1006 S1007 T1008 I1009 T1010 P1011 T1012 H1013 A1014 A1015 S1016 N1017 C1018 K1019 I1020 N1021 A1022 I1023 S1024 A1025 F1026 N1027 D1028 E1029 Q1030 I1031 F1032 V1033 G1034 Y1035 V1036 D1037 G1038 V1039 I1040 I1041 D1042 V1043 I1044 H1045 D1046 T1047 A1048 L1049 P1050 Q1051 Q1052 F1053

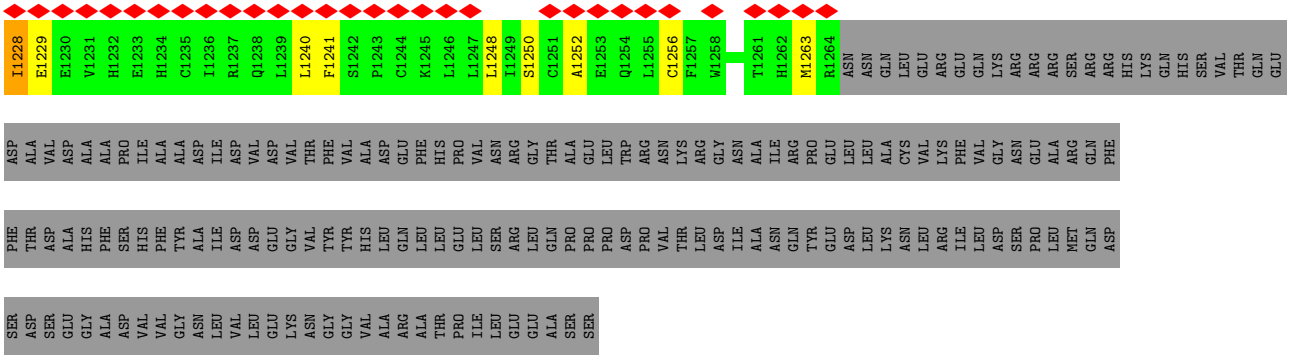


• Molecule 1: Apaf-1 related killer DARK

Chain D:

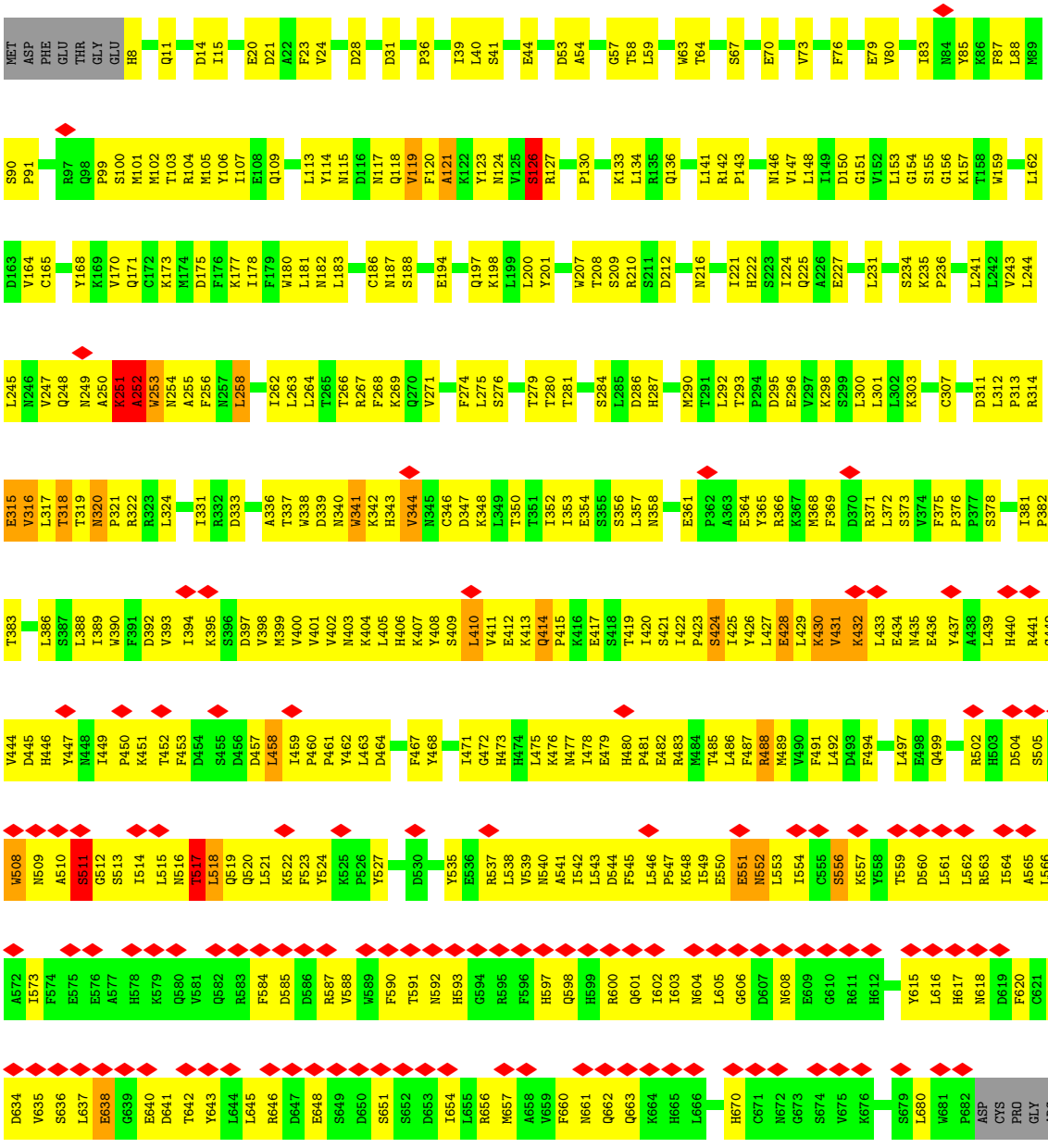


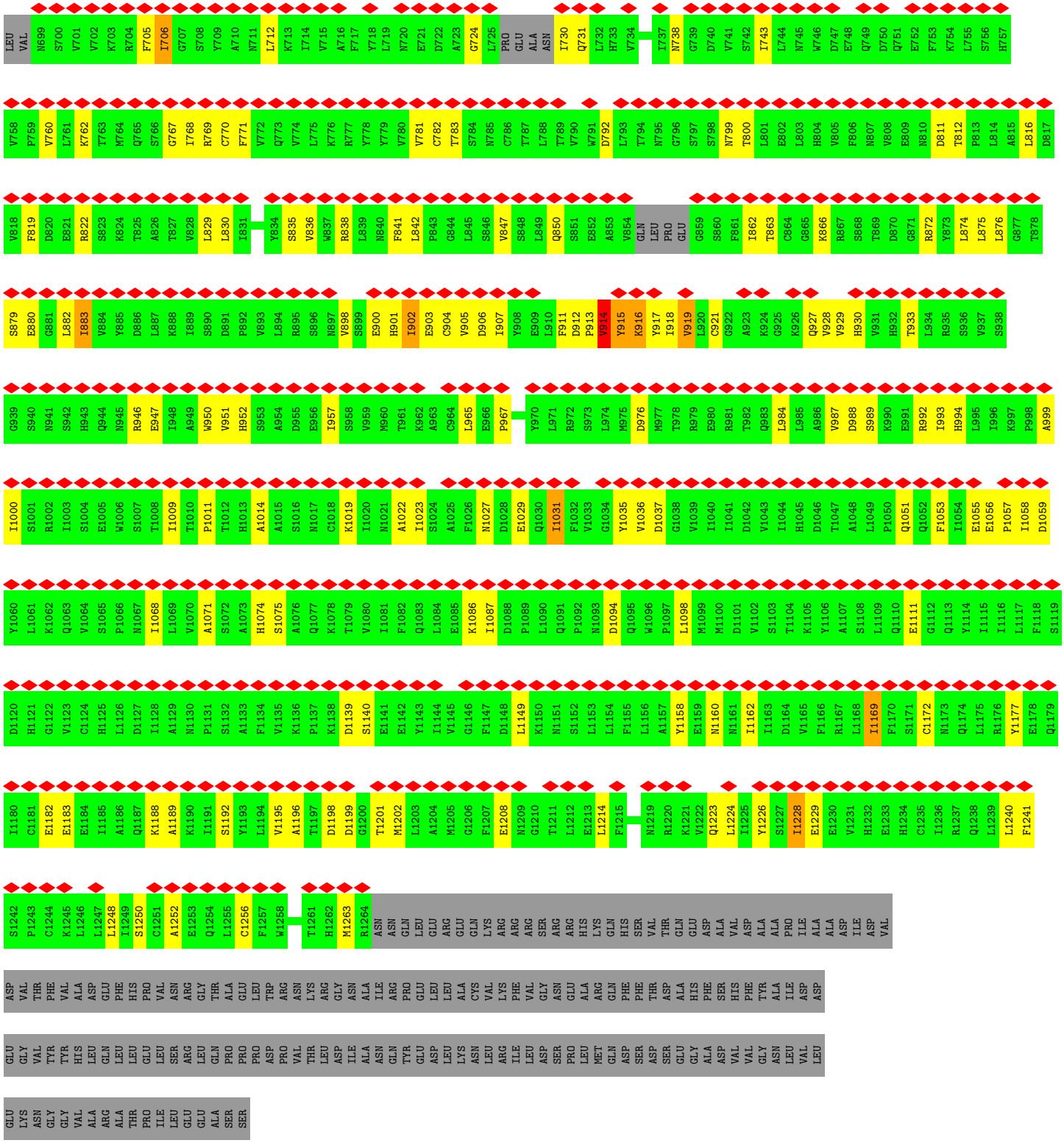

E434 N435 E436 Y437 A438 L439 H440 R441 S442 I443 V444 D445 H446 Y447 N448 I449 P450 K451 T452 F453 D454 S455 D456 D457 L458 I459 P460 P461 Y462 L463 D464 F467 Y468 S469 H470 I471 G472 H473 H474 L475 K476 N477 I478 E479 H480 P481 E482 R483 M484 T485 L486 F487 R488 M489 V490 F491 L492 D493 F494
R495 F496 L497 E498 Q499 R502 H503 D504 S505 T506 A507 W508 N509 A510 S511 G512 S513 I514 L515 N516 T517 L518 Q519 Q520 L521 K522 F523 Y524 K525 P526 Y527 D530 Y535 E536 R537 L538 V539 N540 A541 I542 L543 D544 F545 L546 F547 K548 I549 E550 E551 N552 L553 I554 C555 S556 K557 Y558 T559
D560 L561 L562 R563 I564 A565 L566 M567 A568 E569 D570 E571 A572 I573 F574 E575 E576 A577 H578 K579 Q580 V581 Q582 R583 F584 D585 D586 R587 V588 W589 F590 T591 N592 H593 G594 R595 F596 H597 Q598 H599 R600 Q601 I602 I603 N604 L605 G606 D607 N608 E609 G610 R611 H612 Y615 L616 H617 N618 D619 F620
C621 L622 L625 A626 S627 G628 Q629 I630 L631 L632 T633 D634 V635 S636 L637 E638 G639 E640 D641 T642 Y643 L644 L645 R646 D647 E648 S649 D650 S651 S652 D653 I654 L655 R656 M657 A658 V659 F660 N661 Q662 Q663 K664 H665 L666 I667 H670 C671 N672 G673 S674 V675 K676 L677 W678 S679 L680 W681 P682
ASP CYS PRO GLY ARG ARG HIS SER GLY GLY SER LYS GLN GLN LEU VAL N699 S700 V701 V702 K703 R704 F705 I706 G707 S708 Y709 A710 N711 L712 K713 I714 V715 A716 F717 Y718 L719 N720 E721 D722 A723 G724 L725 PRO GLU ALA ASN I730 Q731 L732 H733 V734 I737 N738 G739 D740 V741 S742 I743
L744 N745 W746 D747 E748 Q749 D750 Q751 E752 F753 K754 L755 S756 H757 V758 P759 V760 L761 K762 T763 M764 Q765 S766 G767 I768 R769 C770 F771 V772 Q773 V774 L775 K776 R777 Y778 Y779 V780 V781 C782 T783 S784 N785 C786 T787 L788 T789 V790 W791 D792 L793 T794 N795 G796 S797 S798 N799 T800 L801 E802 L803
H804 V805 F806 N807 V808 E809 N810 D811 T812 P813 L814 A815 L816 D817 V818 F819 D820 E821 R822 S823 K824 T825 A826 T827 V828 L829 L830 I831 F832 K833 Y834 S835 V836 W837 R838 L839 N840 F841 L842 P843 G844 L845 S846 V847 S848 L849 Q850 S851 E852 A853 Y854 GLN LEU PRO GLU G859 S860 F861 I862 T863
C864 G865 K866 R867 S868 T869 D870 G871 R872 Y873 L874 L875 L876 G877 T878 S879 E880 G881 L882 I883 V884 Y885 D886 L887 K888 I889 S890 D891 P892 V893 L894 R895 S896 N897 V898 S899 E900 H901 I902 E903 C904 V905 D906 I907 Y908 E909 L910 F911 D912 P913 V914 Y915 K916 Y917 I918 V919 L920 C921 G922 A923
K924 G925 K926 Q927 V928 V929 H930 V931 H932 T933 L934 R935 S936 V937 S938 G939 S940 N941 S942 H943 Q944 N945 R946 E947 I948 A949 W950 V951 H952 S953 A954 D955 E956 I957 S958 V959 M960 T961 K962 A963 C964 L965 E966 P967 Y970 L971 R972 S973 L974 M975 D976 M977 T978 R979 E980 R981 T982 Q983 L984
L985 A986 V987 D988 S989 K990 E991 R992 I993 H994 L995 I996 K997 P998 A999 I1000 S1001 R1002 I1003 S1004 E1005 W1006 S1007 T1008 I1009 T1010 P1011 T1012 H1013 A1014 A1015 S1016 N1017 C1018 K1019 I1020 N1021 A1022 I1023 S1024 A1025 F1026 N1027 D1028 E1029 Q1030 I1031 F1032 V1033 G1034 Y1035 V1036 D1037 G1038 V1039 I1040 I1041 D1042 V1043 I1044
H1045 D1046 T1047 A1048 L1049 P1050 Q1051 Q1052 F1053 I1054 E1055 E1056 P1057 I1058 D1059 Y1060 L1061 K1062 Q1063 V1064 S1065 P1066 N1067 I1068 L1069 Y1070 A1071 S1072 A1073 H1074 S1075 A1076 Q1077 K1078 T1079 V1080 I1081 F1082 Q1083 L1084 E1085 K1086 I1087 D1088 P1089 L1090 Q1091 P1092 N1093 D1094 Q1095 W1096 P1097 L1098 M1099 M1100 D1101 V1102 S1103 T1104
K1105 Y1106 A1107 S1108 L1109 Q1110 E1111 G1112 Q1113 Y1114 I1115 I1116 L1117 F1118 S1119 D1120 H1121 G1122 V1123 C1124 H1125 L1126 D1127 I1128 A1129 N1130 P1131 S1132 A1133 F1134 V1135 K1136 P1137 K1138 D1139 S1140 E1141 E1142 Y1143 I1144 V1145 G1146 F1147 D1148 L1149 K1150 N1151 S1152 L1153 L1154 F1155 L1156 A1157 Y1158 E1159 N1160 N1161 I1162 I1163 D1164
V1165 F1166 R1167 L1168 I1169 F1170 S1171 C1172 N1173 Q1174 L1175 R1176 Y1177 E1178 Q1179 I1180 C1181 E1182 E1183 E1184 I1185 A1186 Q1187 K1188 A1189 K1190 I1191 S1192 Y1193 L1194 V1195 A1196 T1197 D1198 D1199 G1200 T1201 M1202 L1203 A1204 M1205 G1206 F1207 E1208 N1209 L1212 E1213 L1214 F1215 N1219 R1220 K1221 V1222 Q1223 L1224 I1225 Y1226 S1227



• Molecule 1: Apaf-1 related killer DARK

Chain E:





- Molecule 1: Apaf-1 related killer DARK

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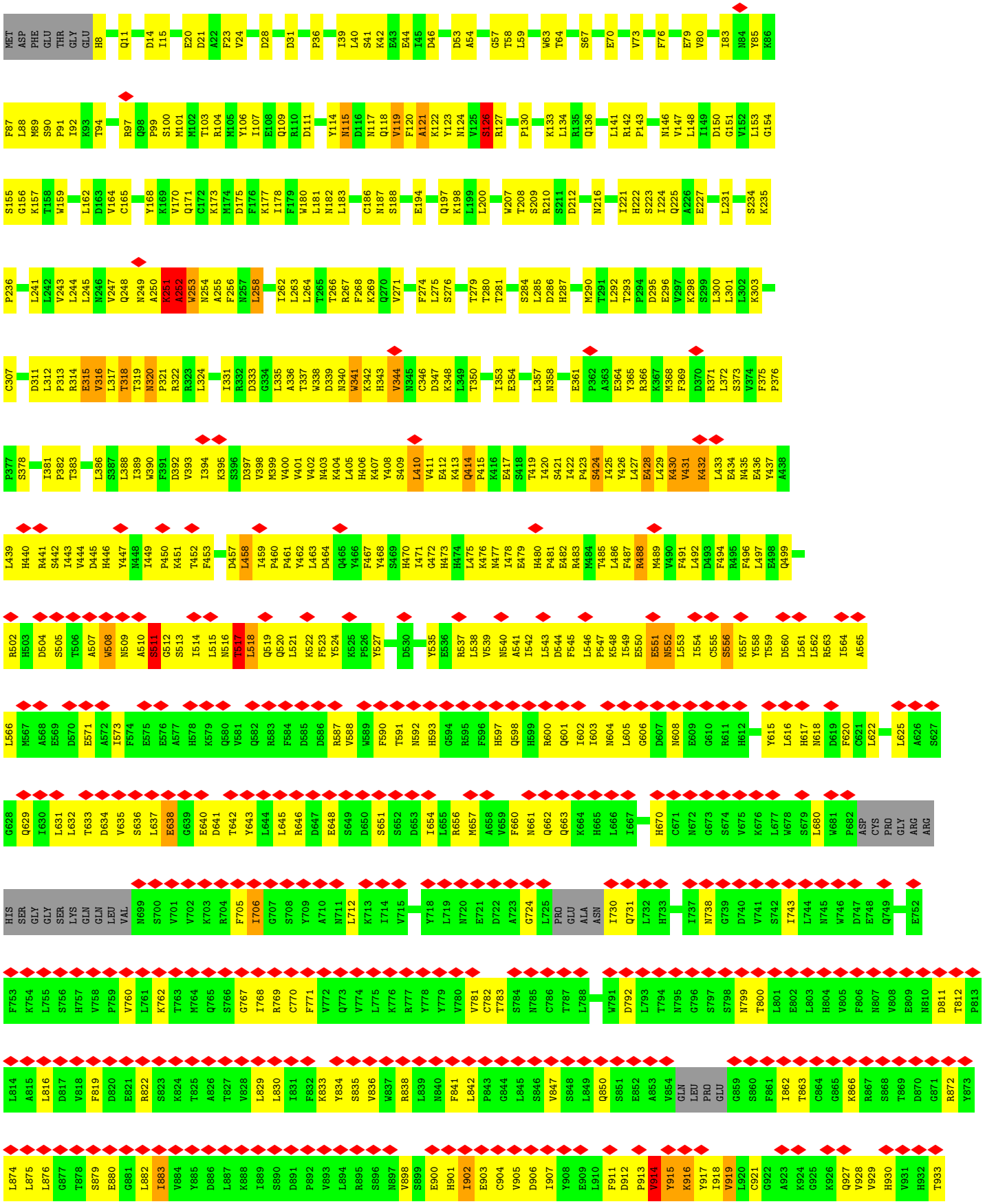
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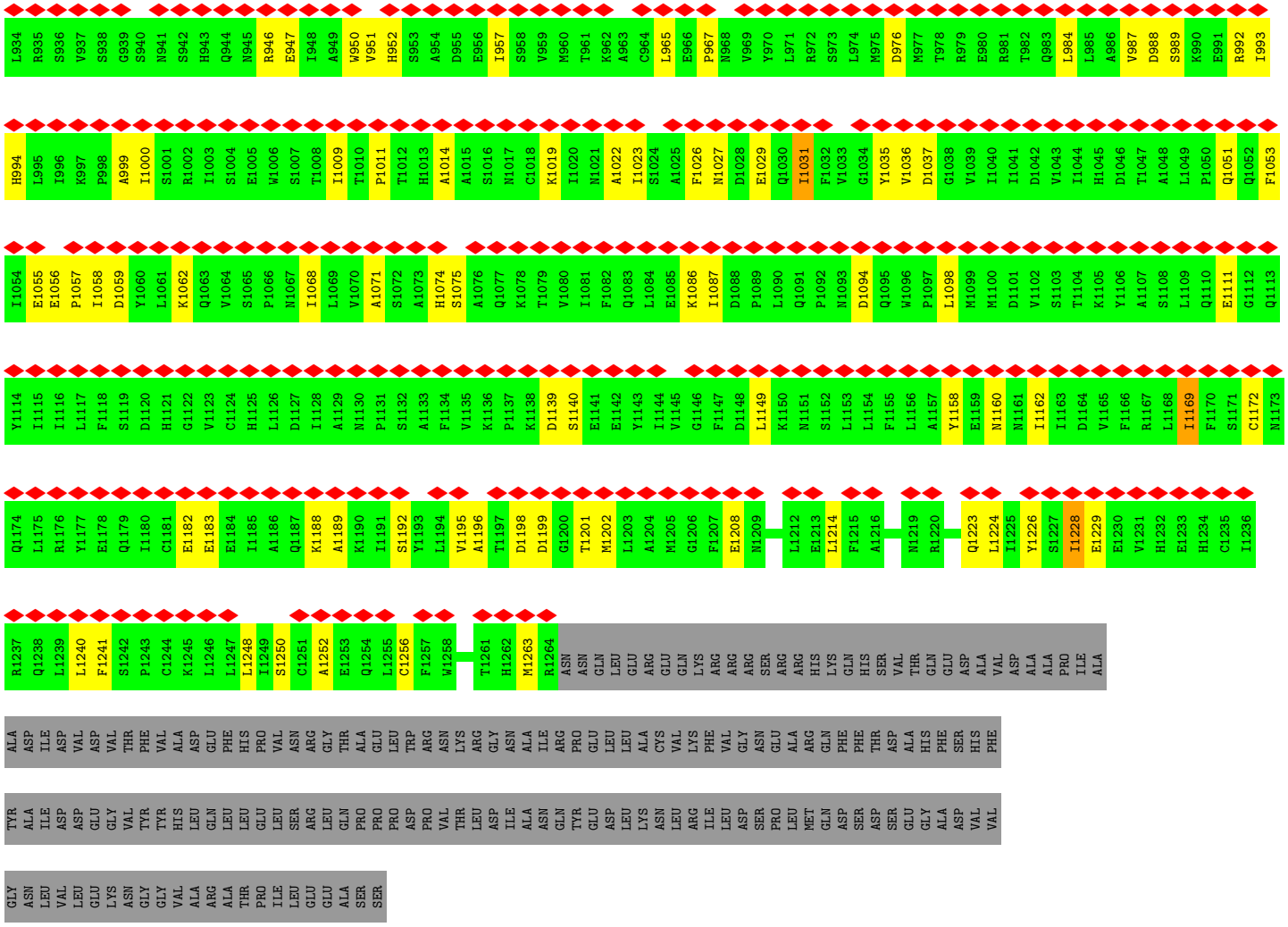
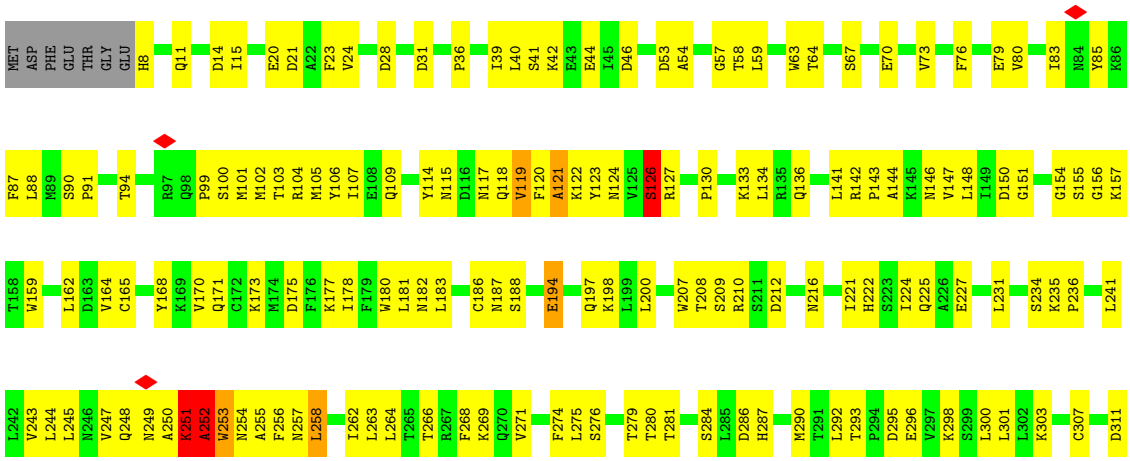
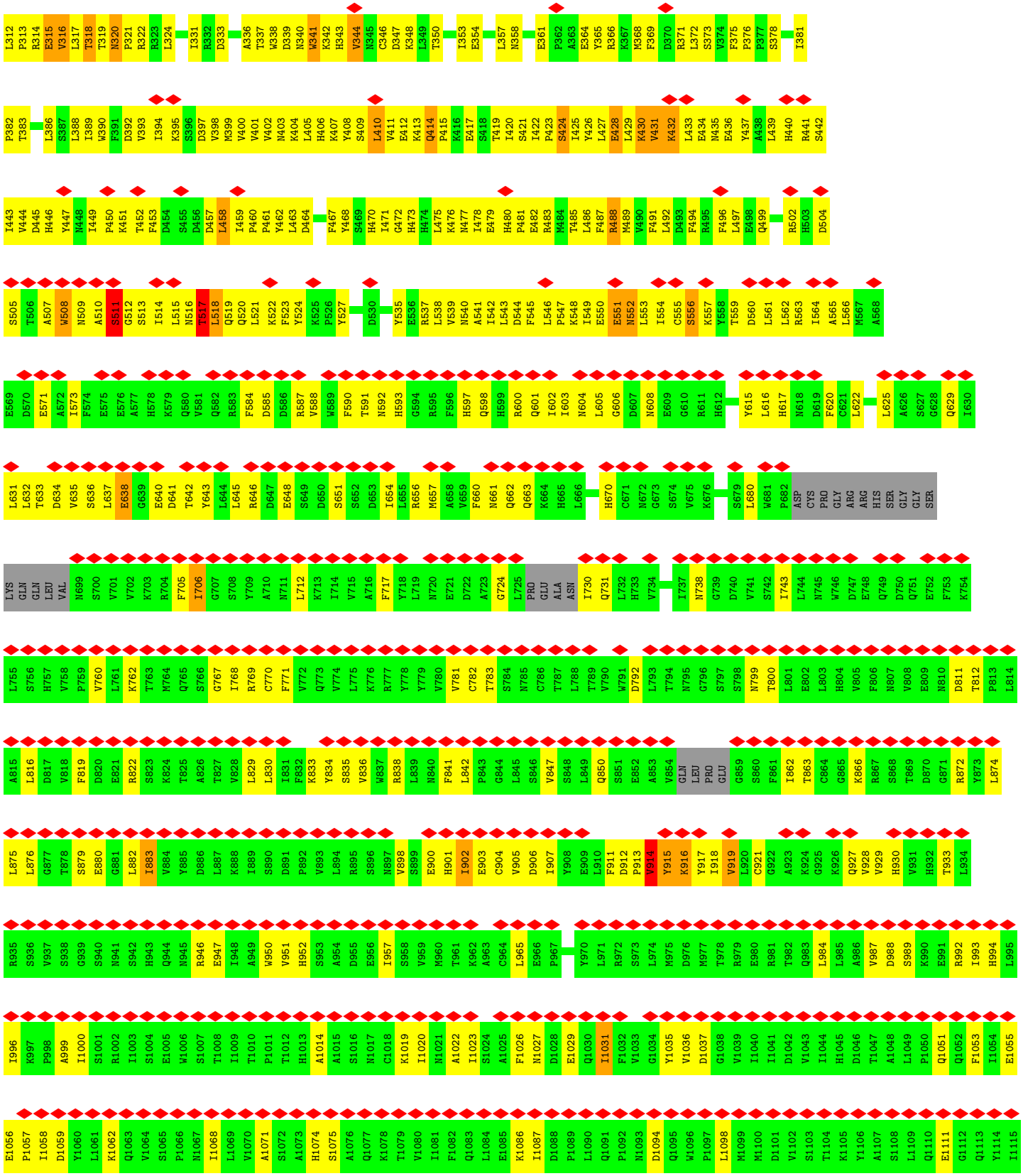


- Molecule 1: Apaf-1 related killer DARK

Chain G:

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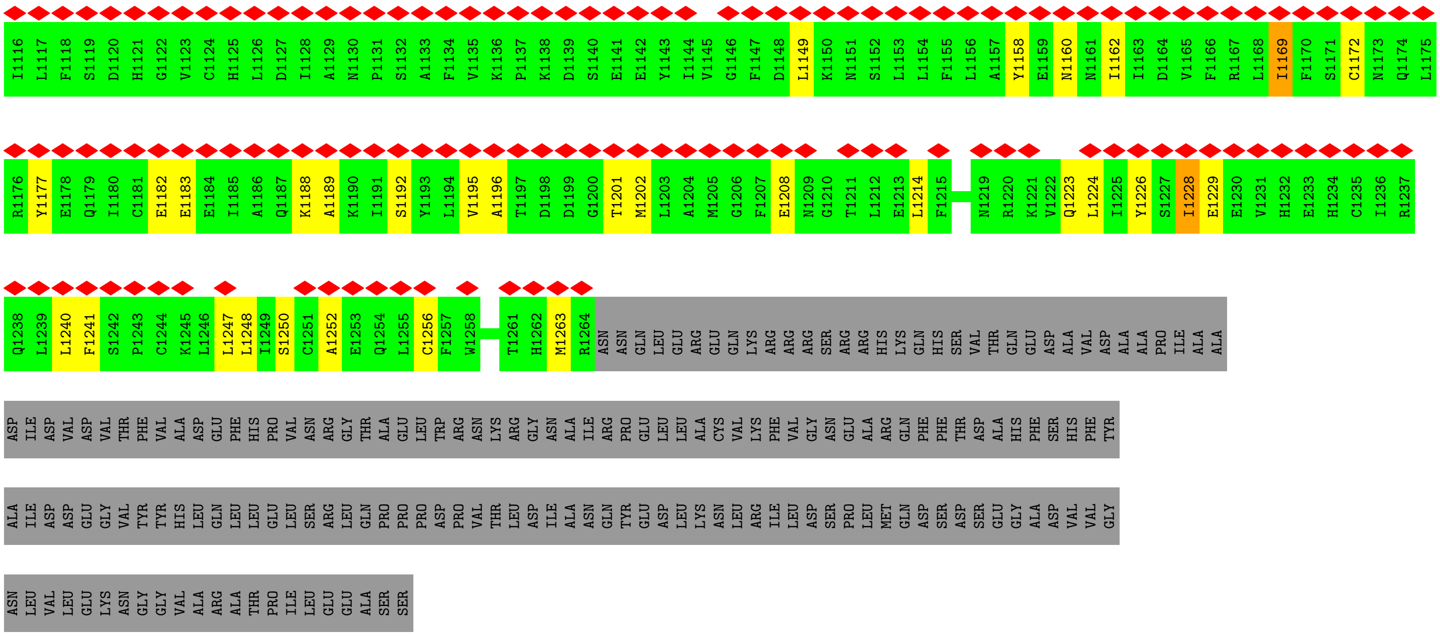
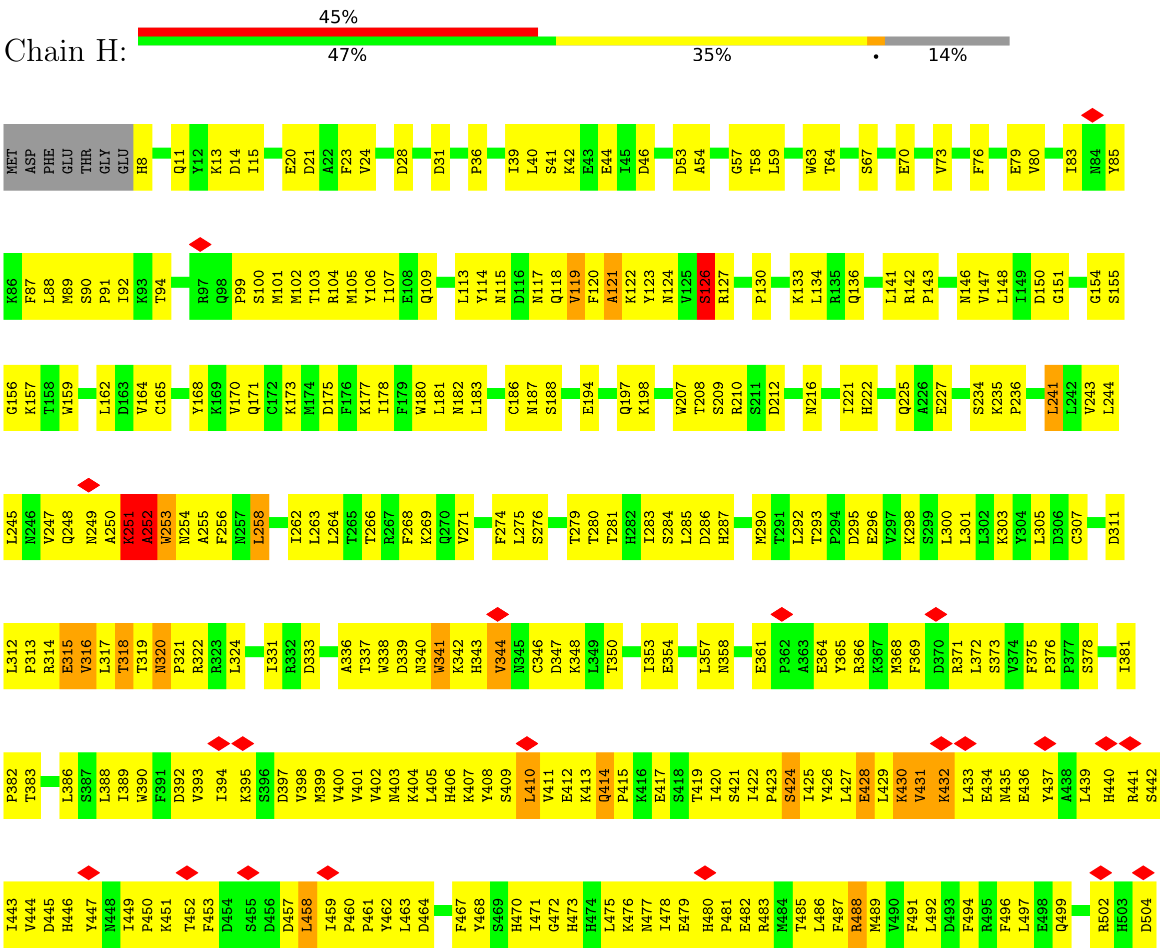
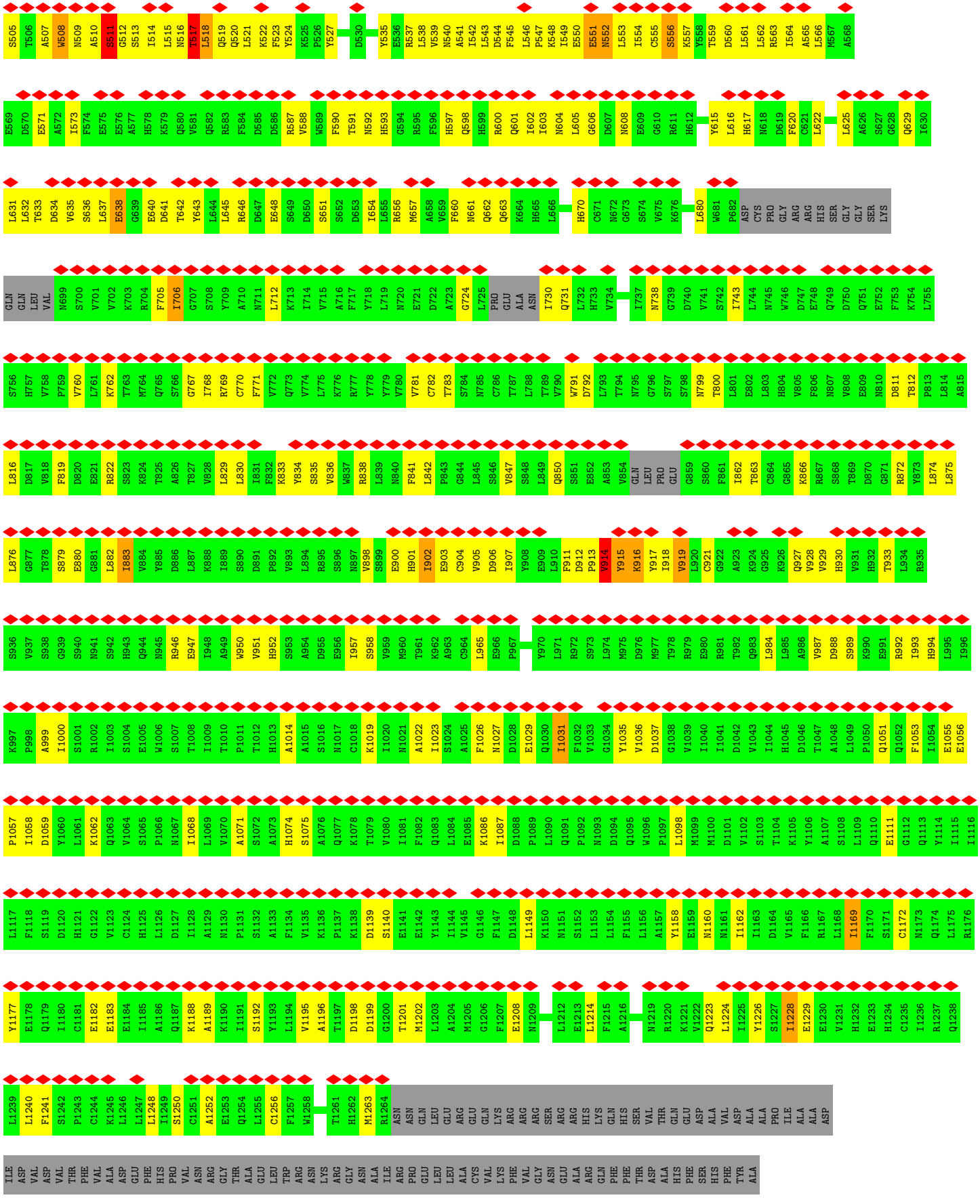


• Molecule 1: Apaf-1 related killer DARK

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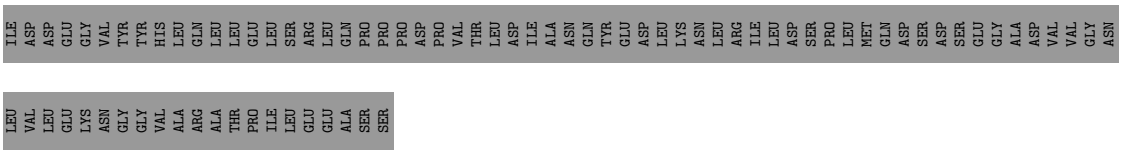
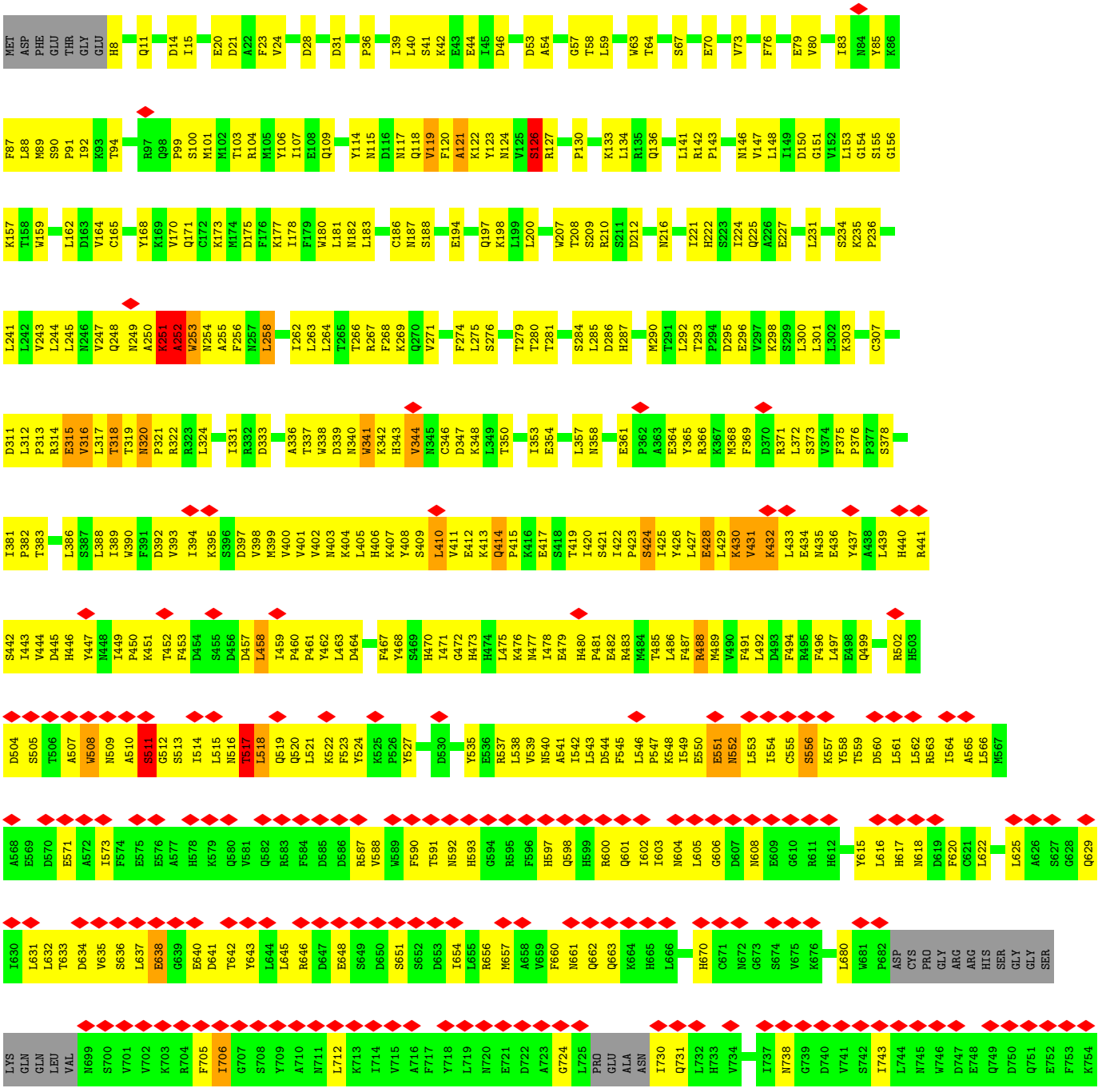
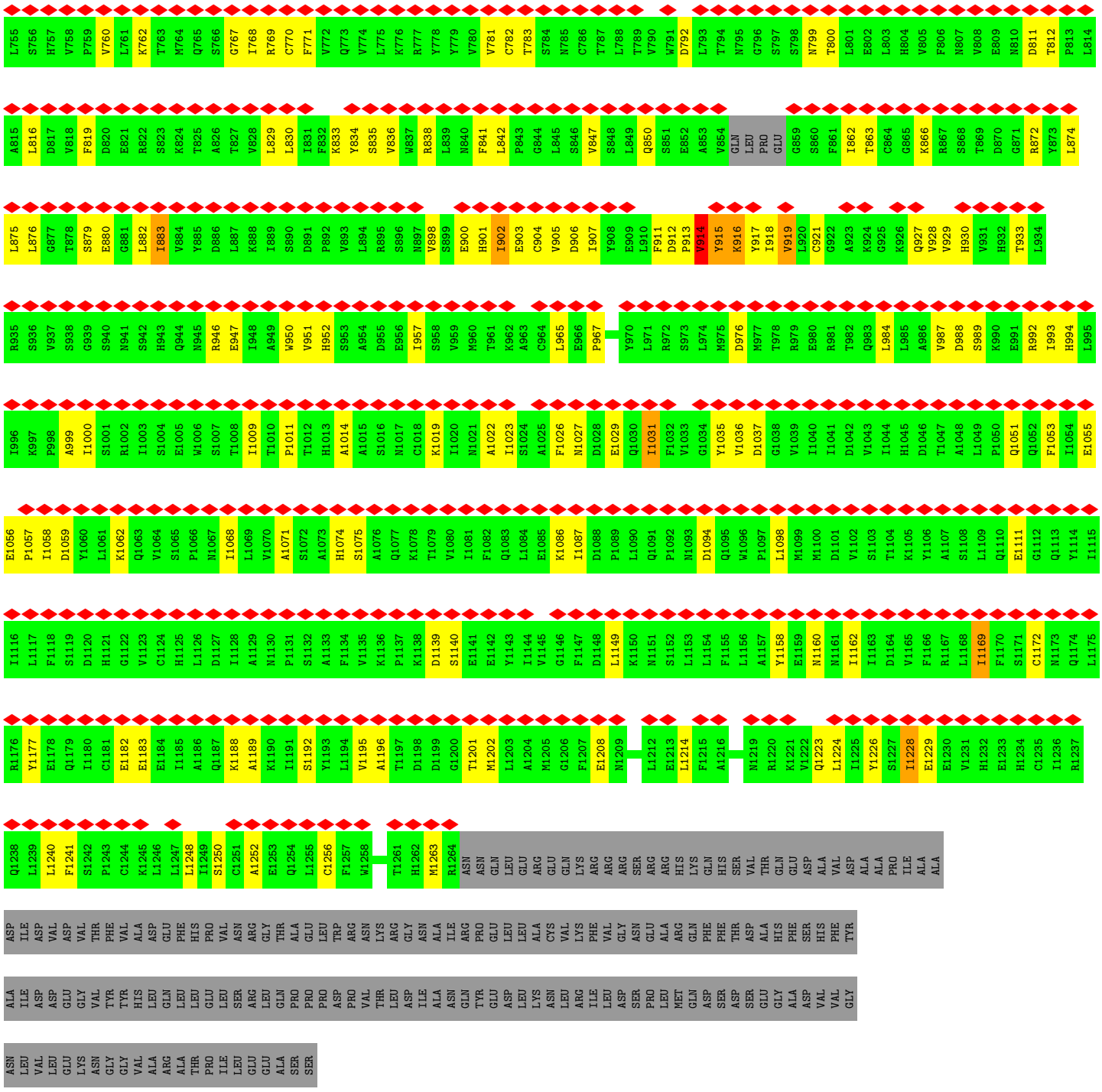
ILE ASP VAL ASP VAL THR PHE VAL ALA ASP GLU PHE HIS PRO VAL ASN ARG GLY THR ALA GLU LEU TRP ARG ASN LYS ARG GLY ASN ALA ILE ARG PRO GLU LEU LEU ALA CYS VAL LYS PHE VAL GLY ASN GLU ALA ARG GLN PHE PHE THR ASP ALA HIS PHE SER HIS PHE TYR ALA



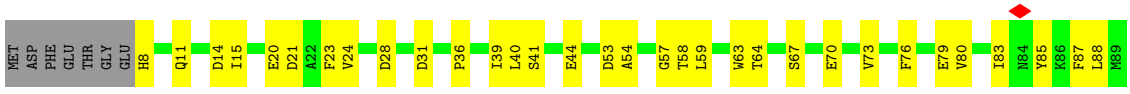
• Molecule 1: Apaf-1 related killer DARK

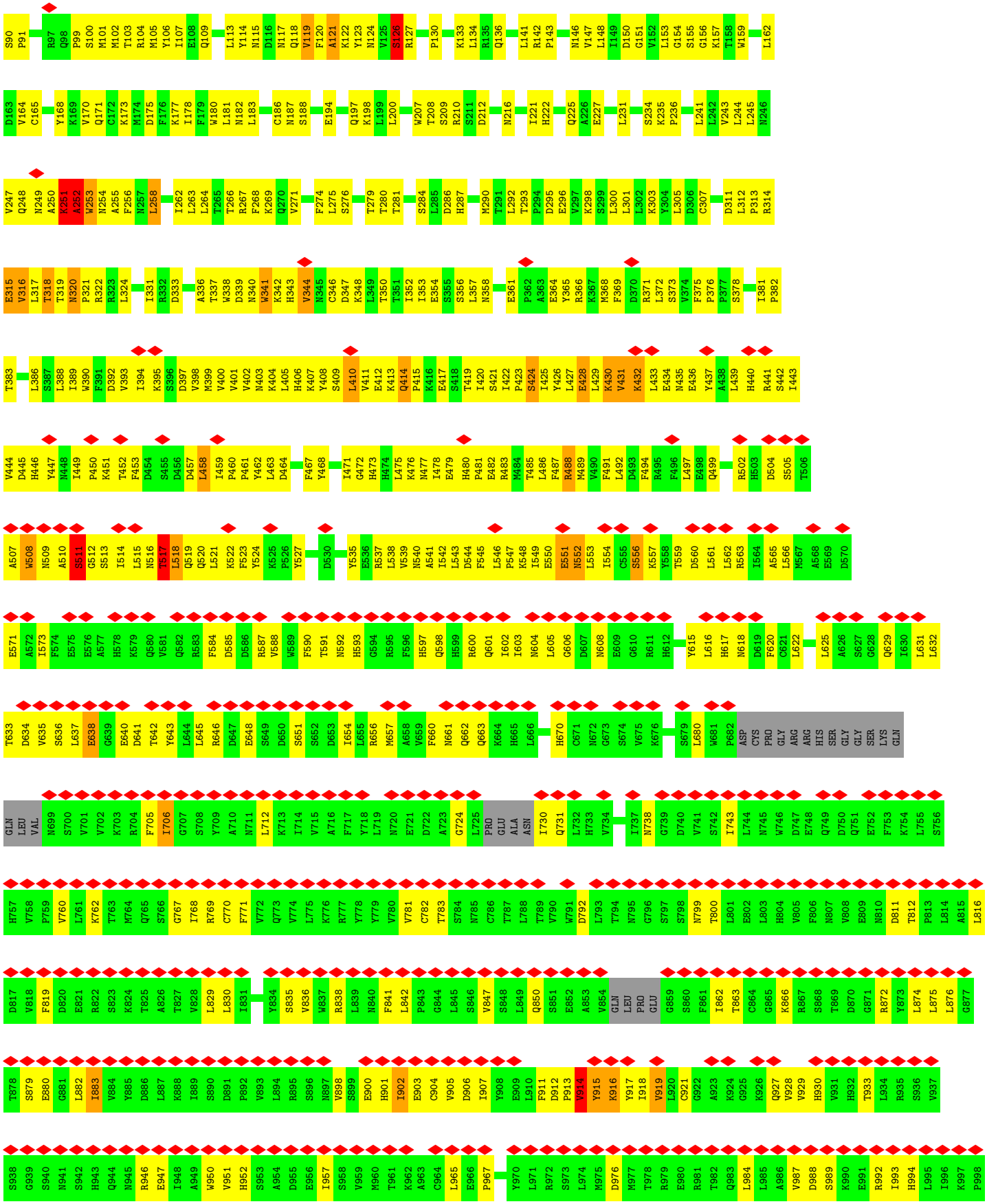
Chain I:

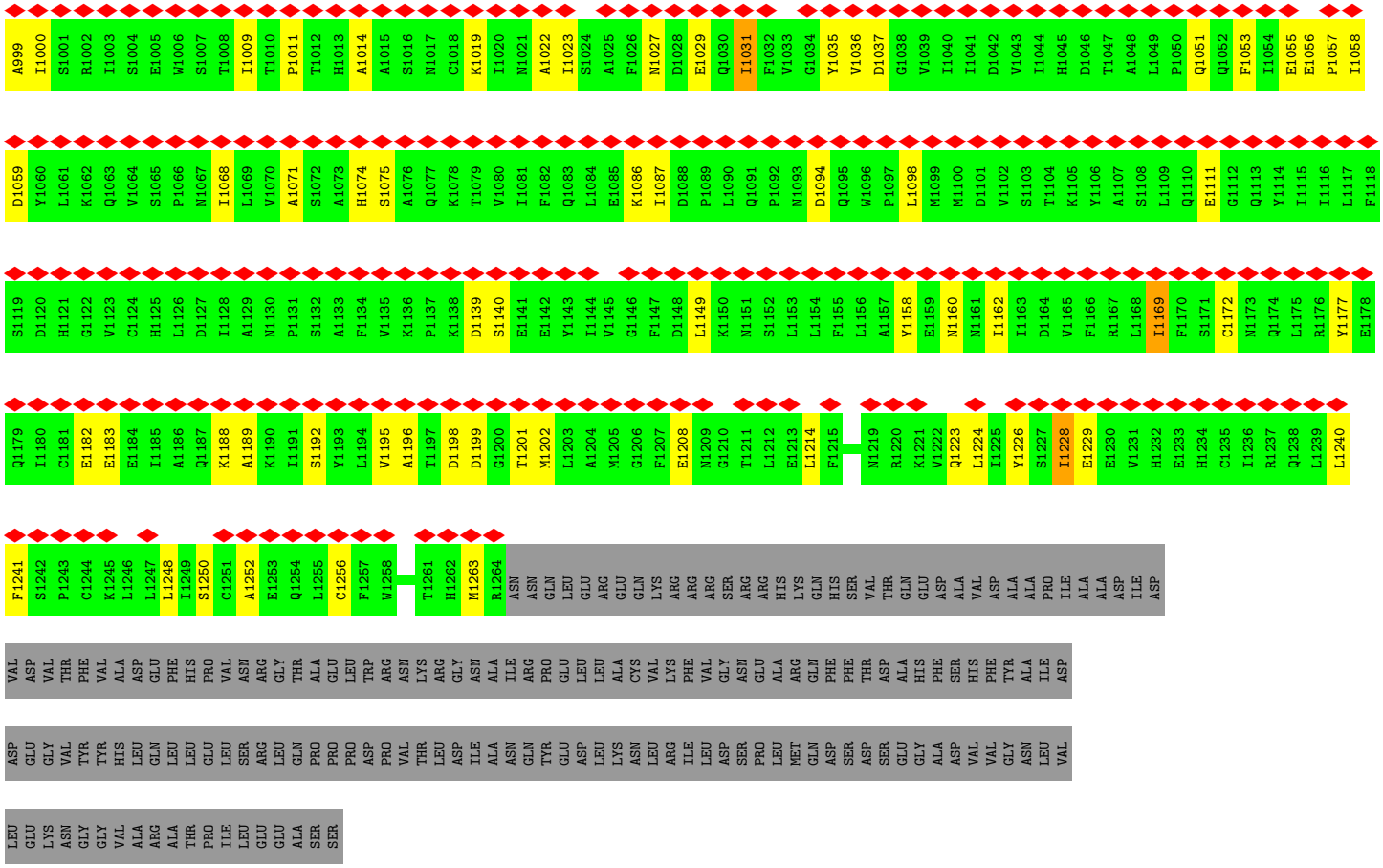




• Molecule 1: Apaf-1 related killer DARK

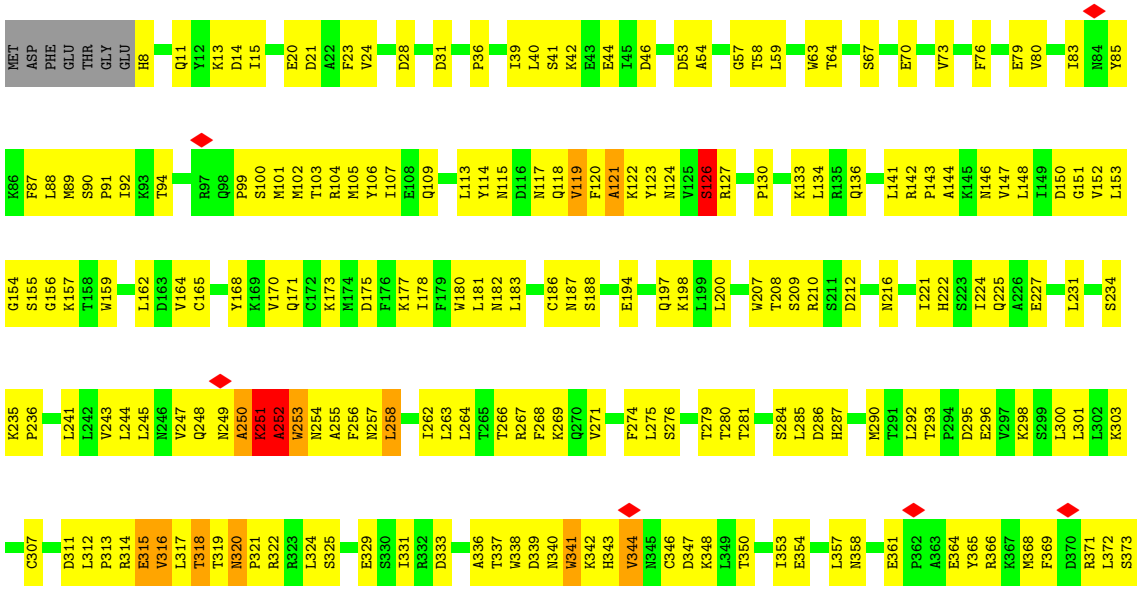


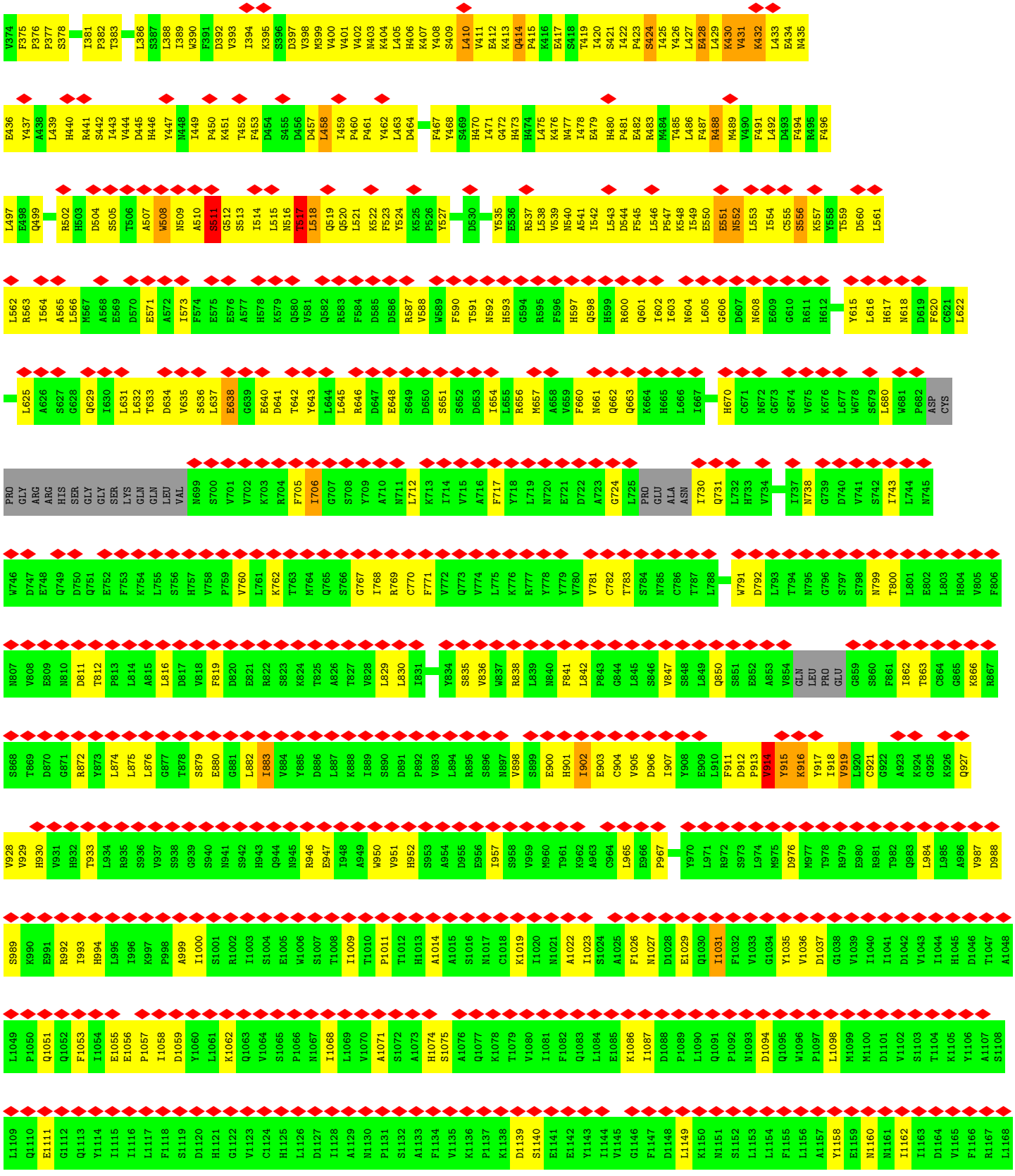




• Molecule 1: Apaf-1 related killer DARK

Chain K:

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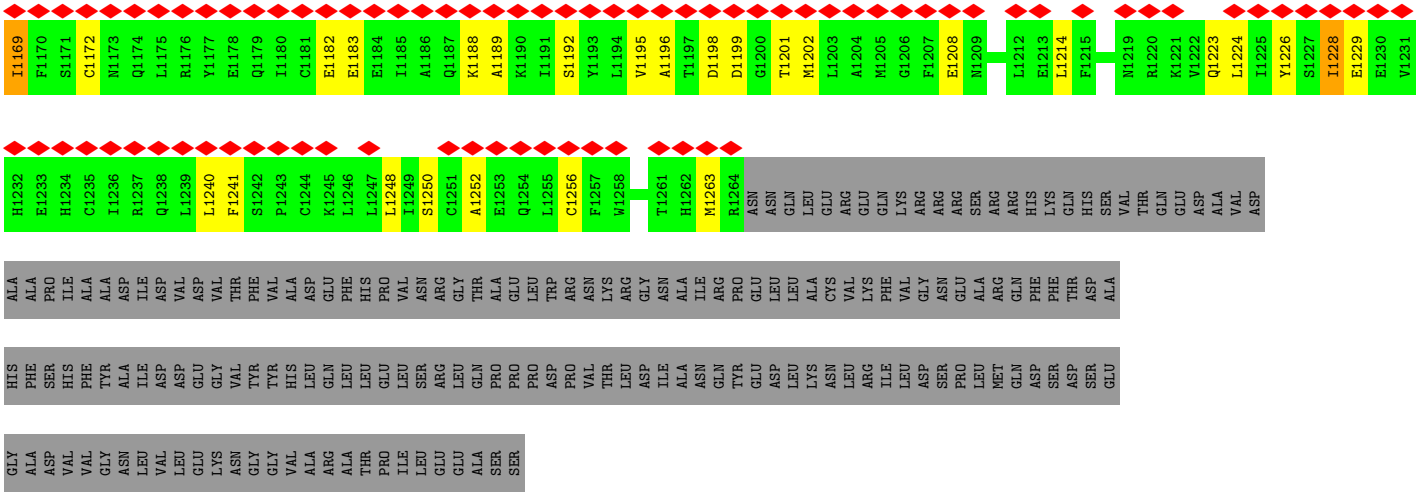
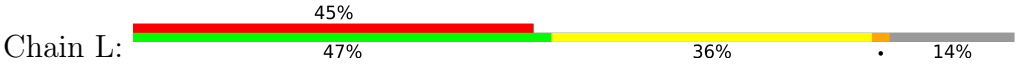
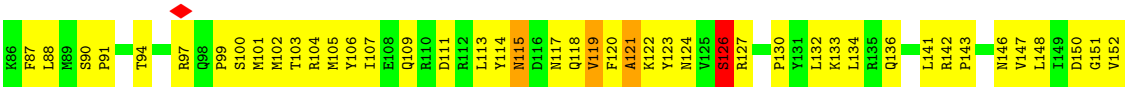
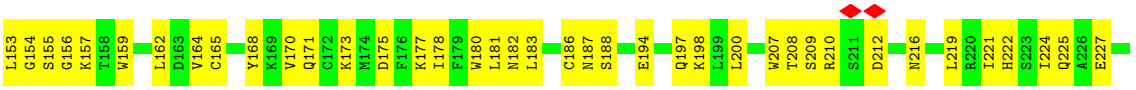
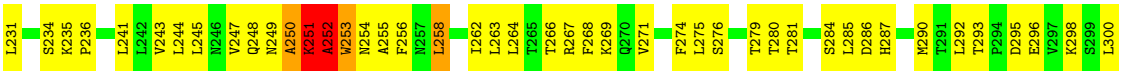


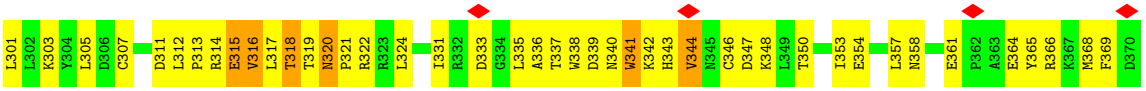
• Molecule 1: Apaf-1 related killer DARK

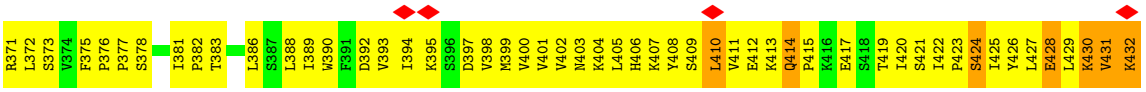


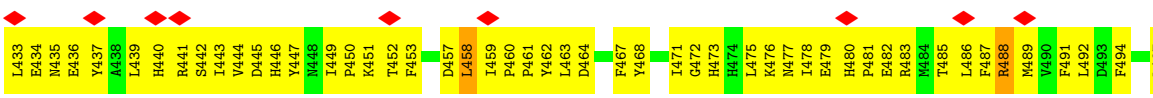


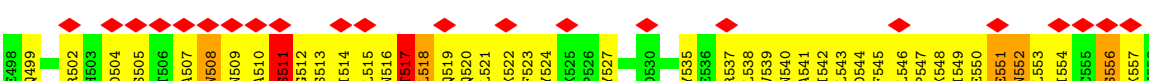


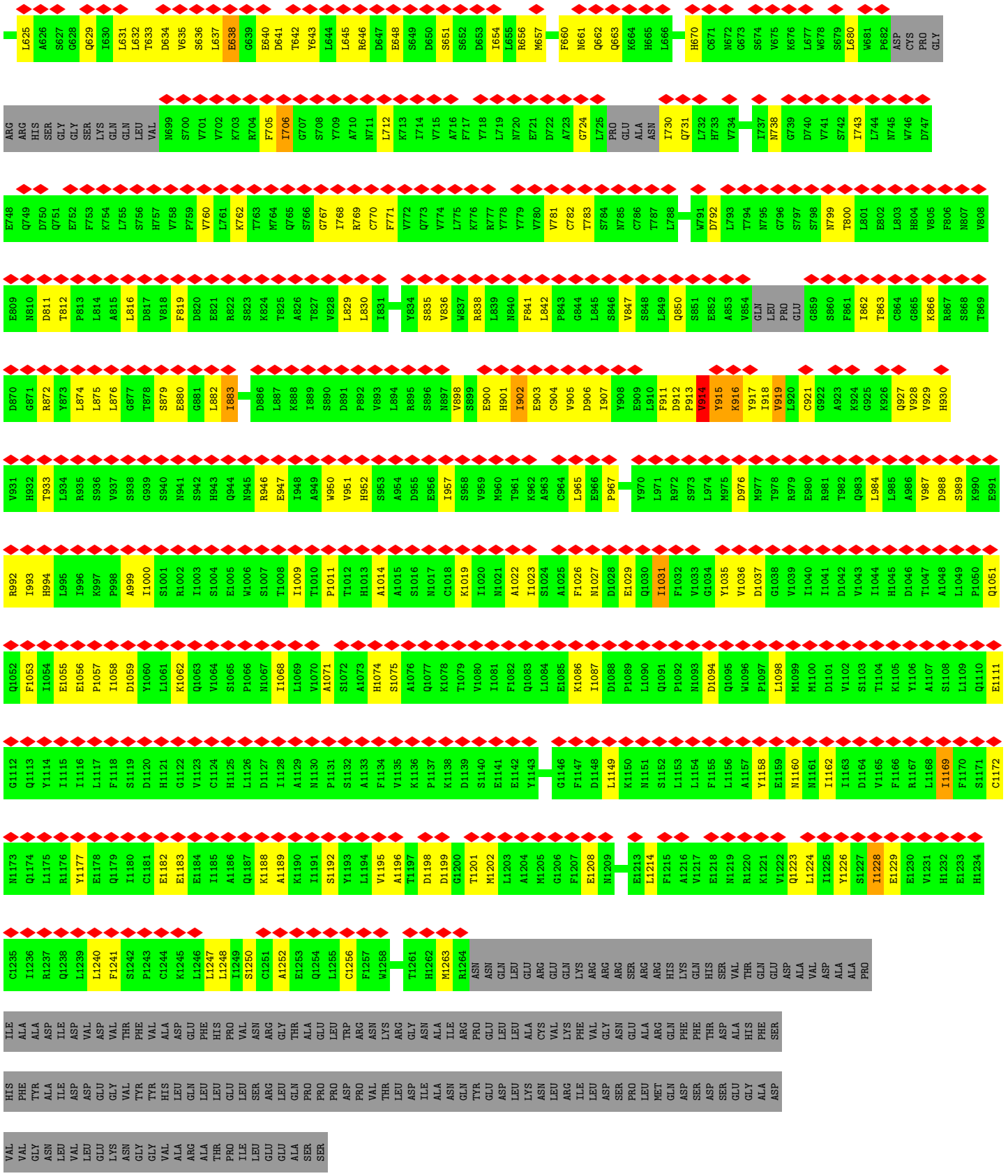






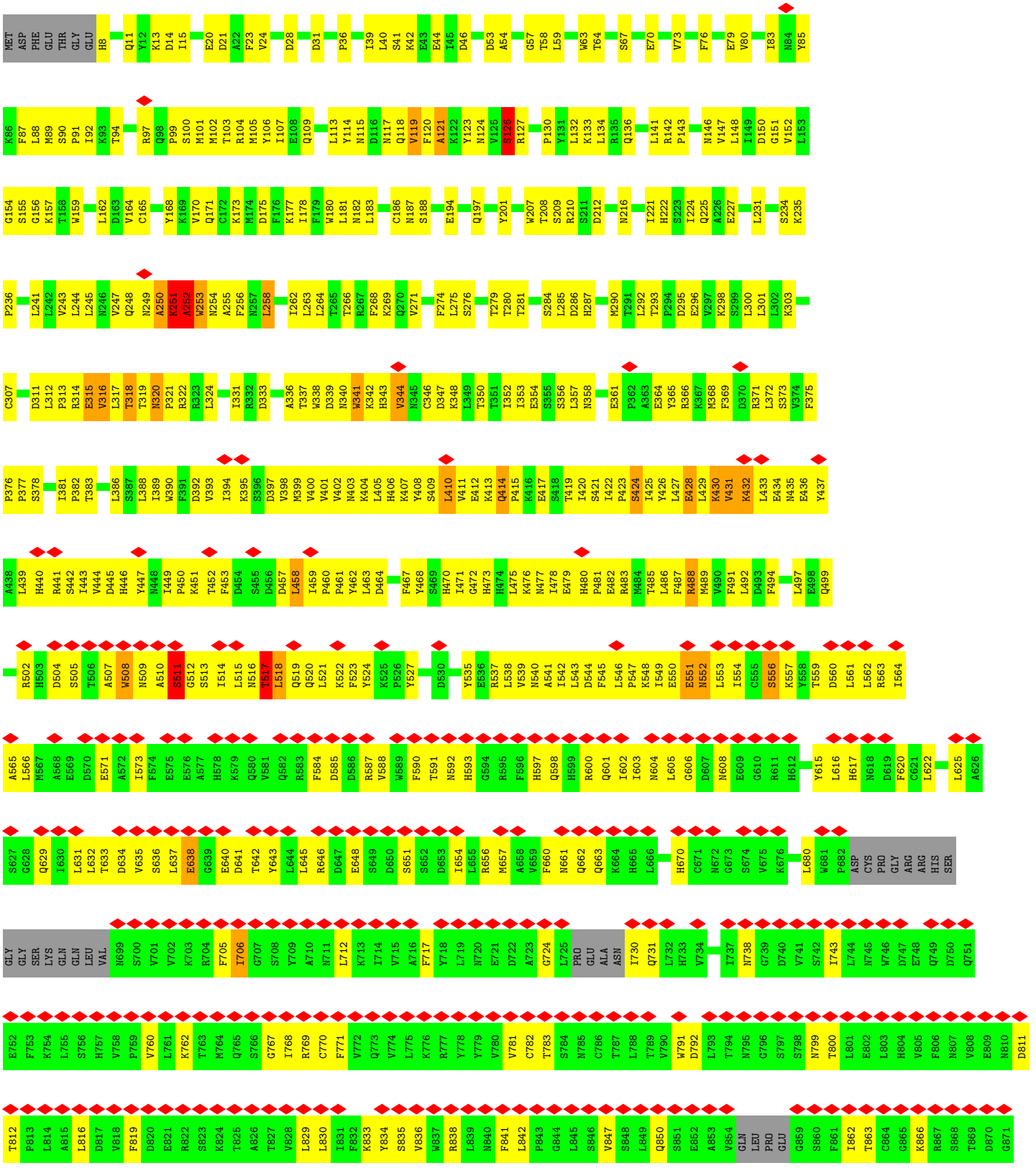


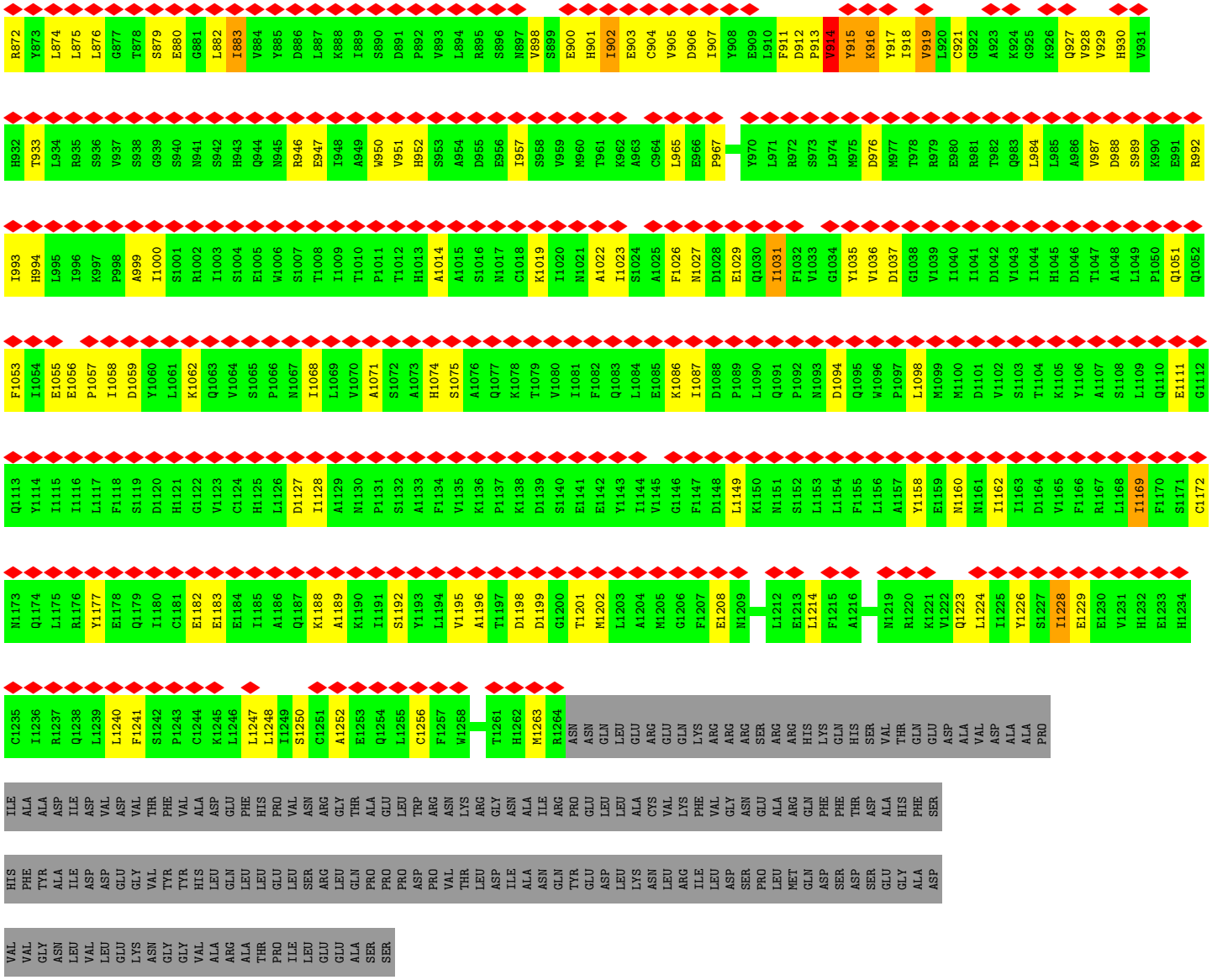




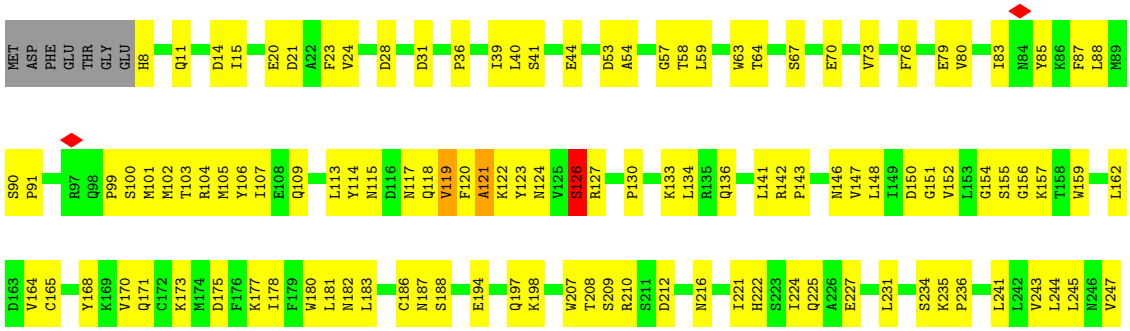
• Molecule 1: Apaf-1 related killer DARK

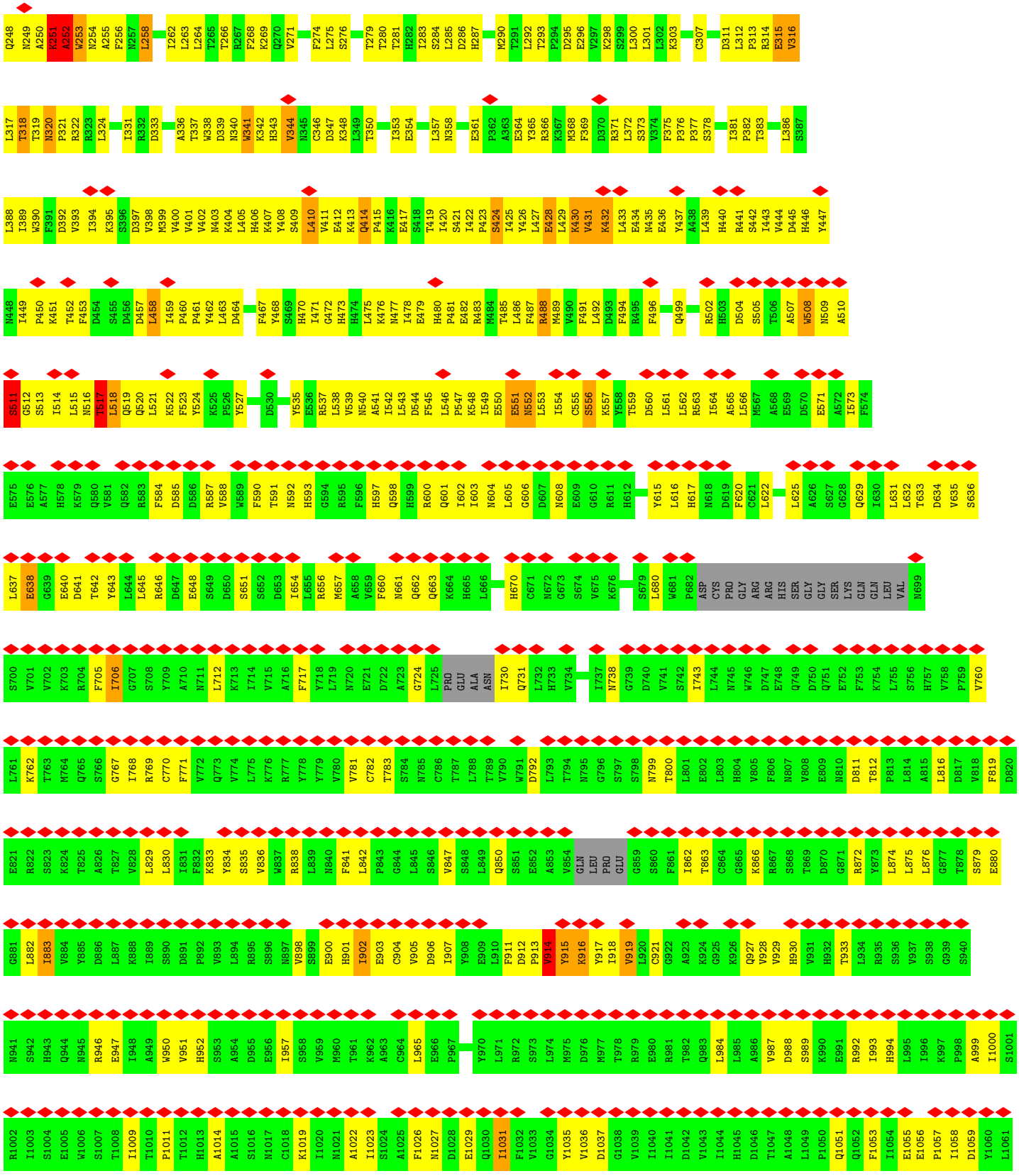
Chain M:





- Molecule 1: Apaf-1 related killer DARK

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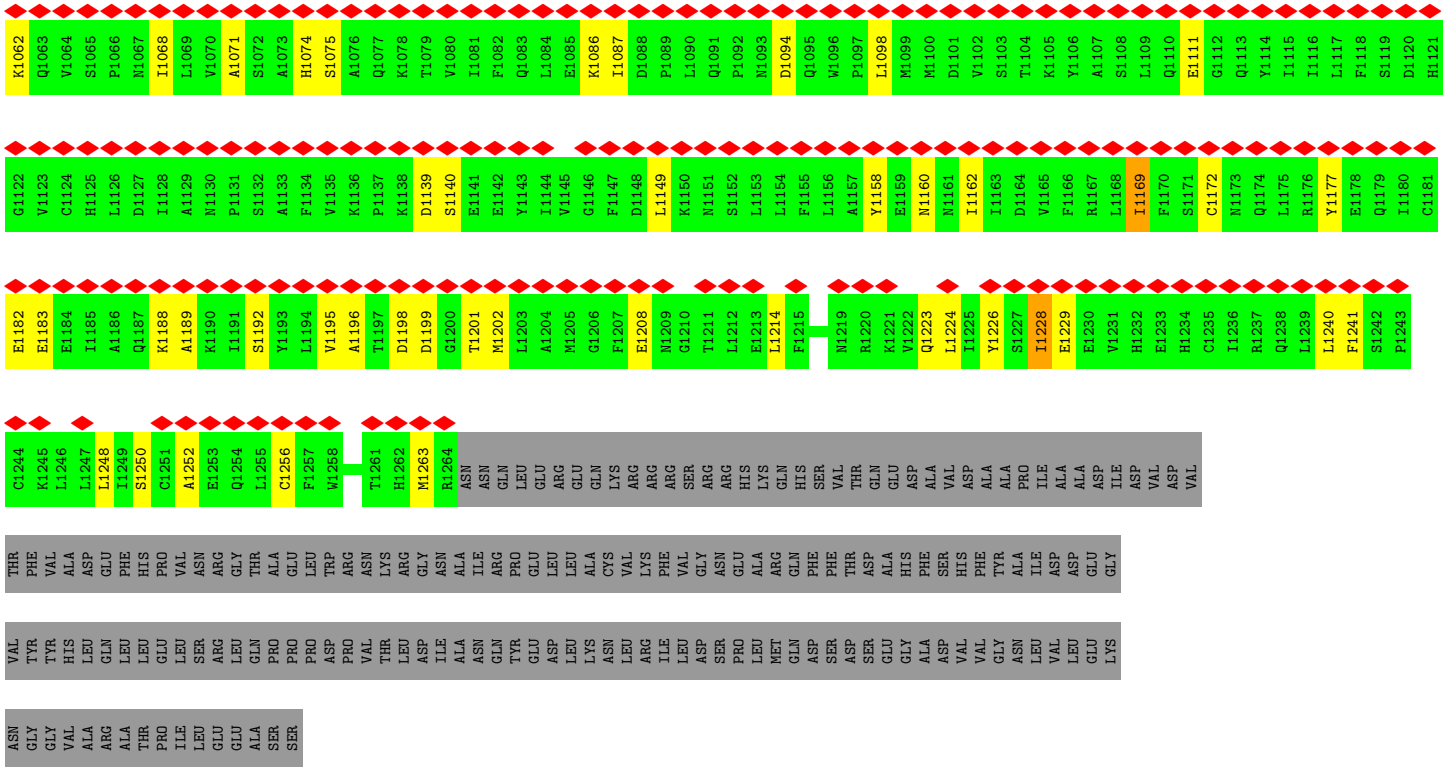
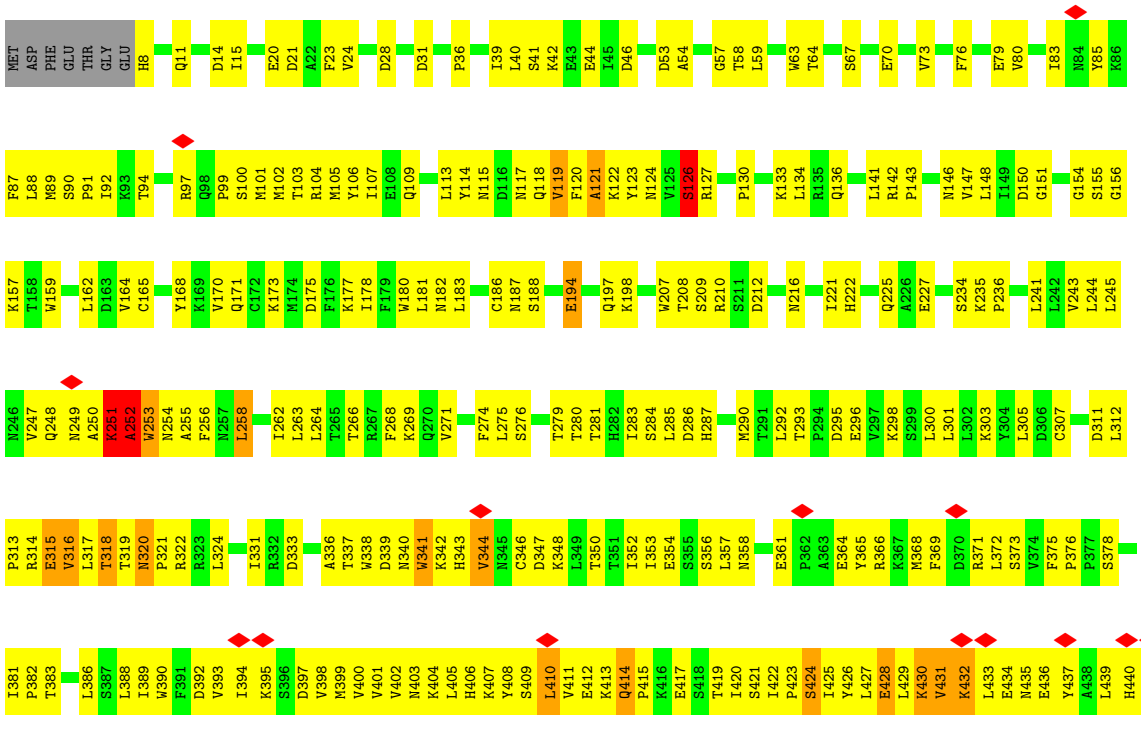
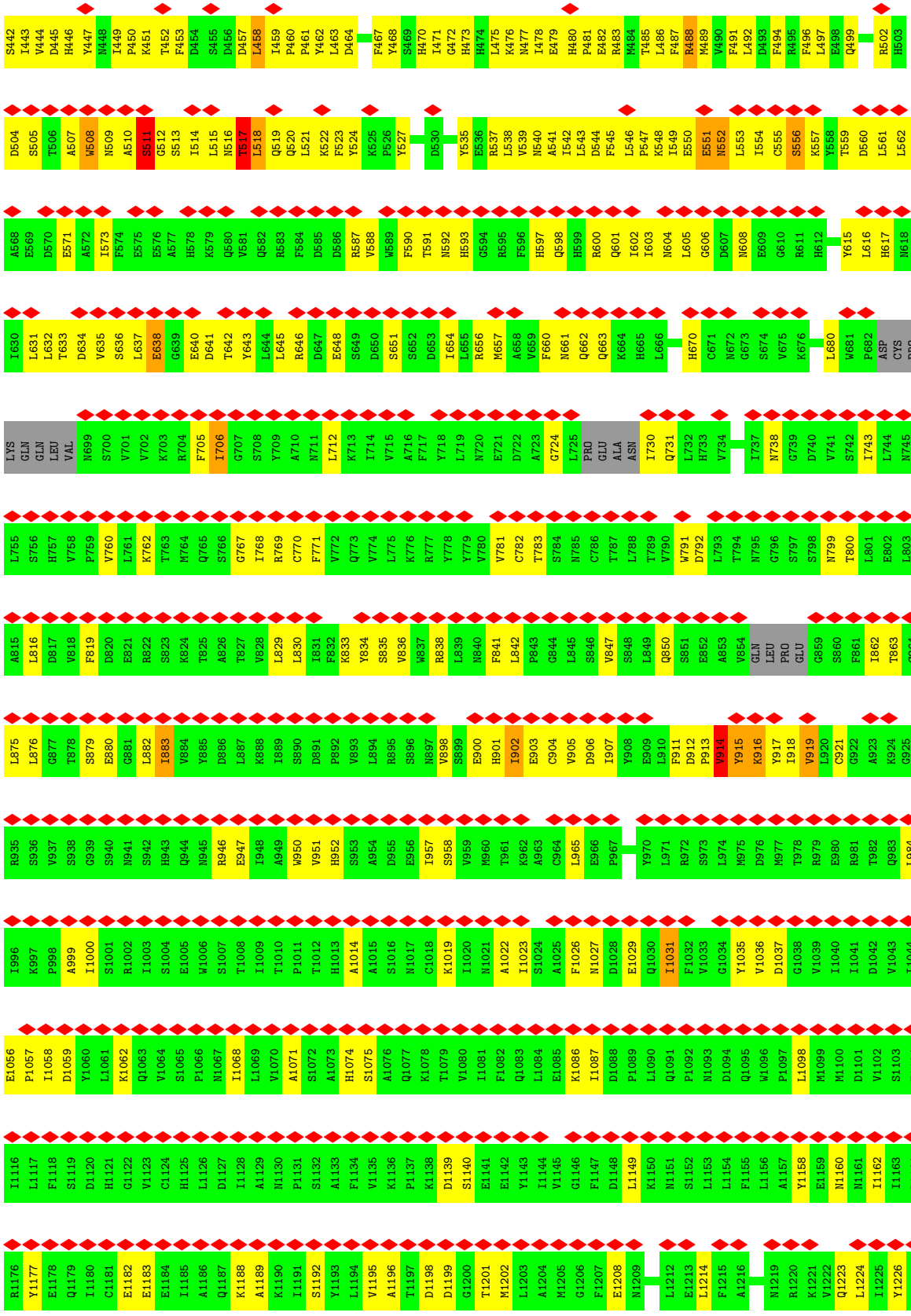


• Molecule 1: Apaf-1 related killer DARK

Chain O:

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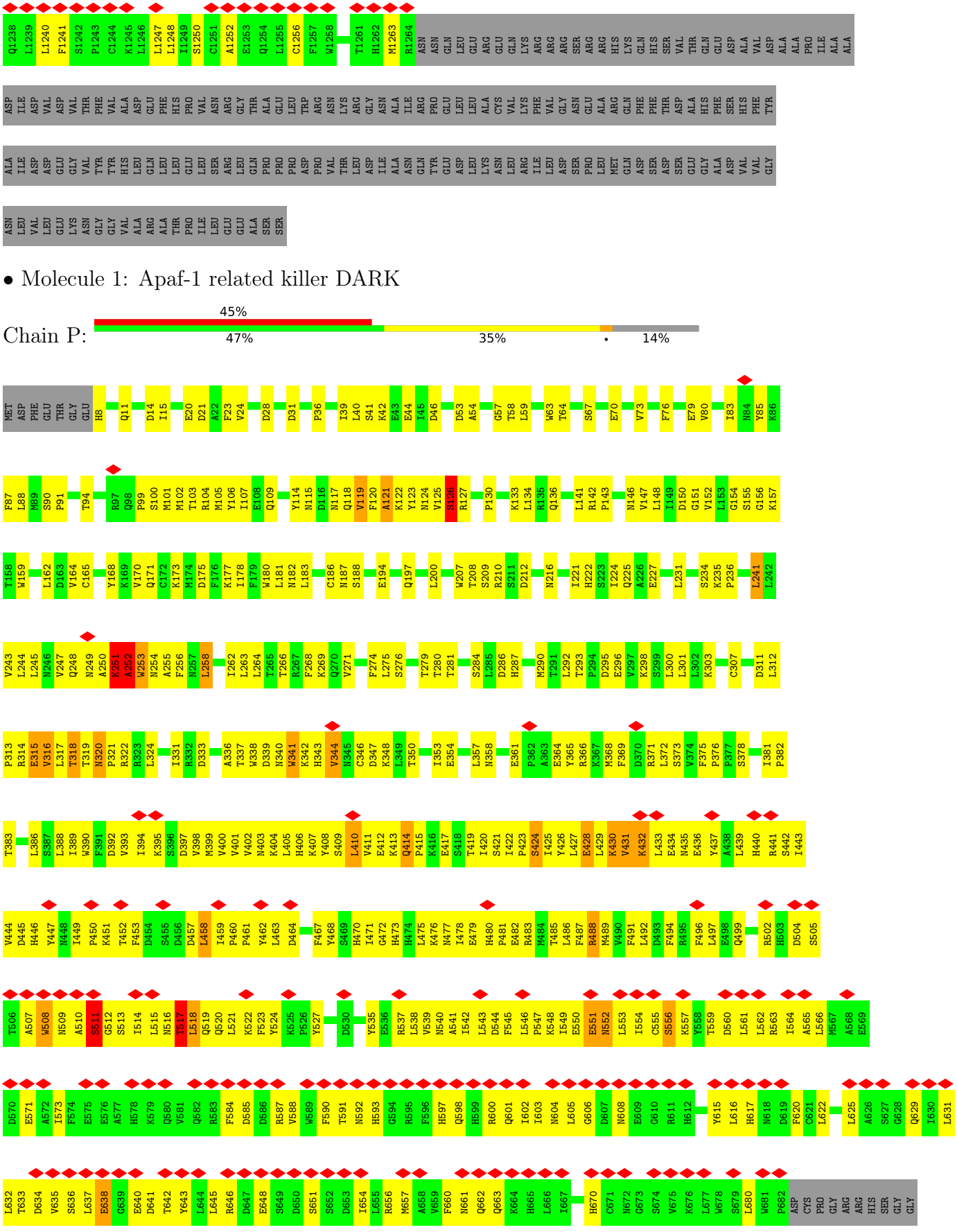
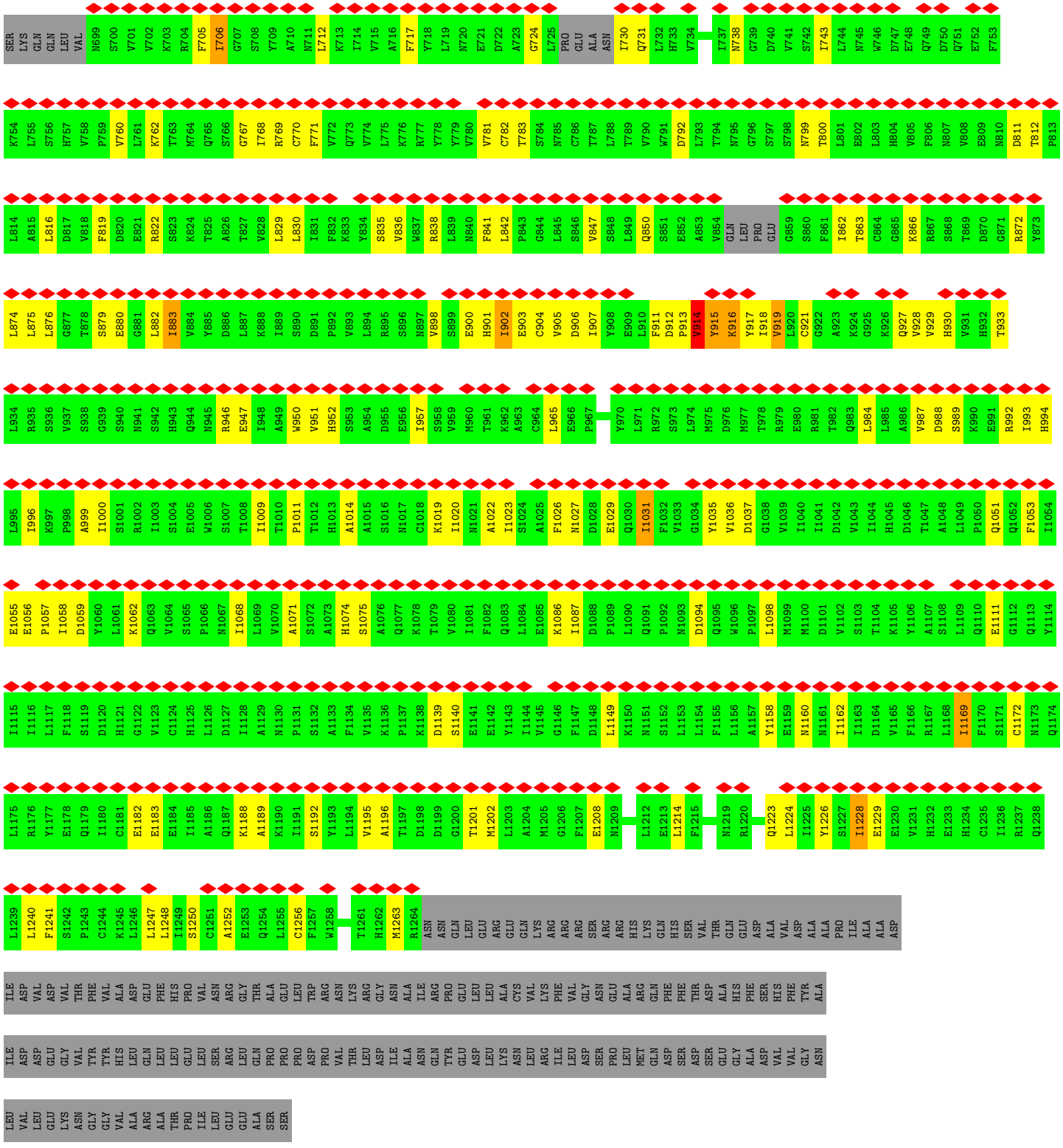
I1116 L1117 F1118 S1119 D1120 H1121 G1122 V1123 C1124 H1125 L1126 D1127 I1128 A1129 N1130 P1131 S1132 A1133 F1134 V1135 K1136 P1137 K1138 D1139 S1140 E1141 E1142 Y1143 I1144 V1145 G1146 F1147 D1148 L1149 K1150 N1151 S1152 L1153 L1154 F1155 L1156 A1157 Y1158 E1159 N1160 N1161 I1162 I1163 D1164 V1165 F1166 R1167 L1168 I1169 F1170 S1171 C1172 N1173 Q1174 L1175
R1176 Y1177 E1178 Q1179 I1180 C1181 E1182 E1183 E1184 I1185 A1186 Q1187 K1188 A1189 K1190 I1191 S1192 Y1193 L1194 V1195 A1196 T1197 D1198 D1199 G1200 T1201 M1202 L1203 A1204 M1205 G1206 F1207 E1208 N1209 L1212 E1213 L1214 F1215 A1216 N1219 R1220 K1221 V1222 Q1223 L1224 I1225 Y1226 S1227 I1228 E1229 E1230 V1231 H1232 E1233 H1234 C1235 I1236 R1237



• Molecule 1: Apaf-1 related killer DARK

Chain P: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K754 L755 S756 H757 V758 P759 V760 L761 K762 T763 M764 Q765 S766 G767 I768 R769 C770 F771 V772 Q773 V774 L775 K776 R777 Y778 Y779 V780 V781 C782 T783 S784 N785 C786 T787 L788 T789 V790 W791 D792 L793 T794 N795 G796 S797 S798 N799 T800 L801 E802 L803 H804 V805 F806 N807 V808 E809 N810 D811 T812 P813
L814 A815 L816 D817 V818 F819 D820 E821 R822 S823 K824 T825 A826 T827 V828 L829 L830 I831 F832 K833 Y834 S835 V836 W837 R838 L839 N840 F841 L842 P843 G844 L845 S846 V847 S848 L849 Q850 S851 E852 A853 V854 GLN LEU PRO GLU G859 S860 F861 I862 T863 C864 G865 K866 R867 S868 T869 D870 G871 R872 Y873
L874 L875 L876 G877 T878 S879 E880 G881 L882 I883 V884 Y885 D886 L887 K888 I889 S890 D891 P892 V893 L894 R895 S896 N897 V898 S899 E900 H901 I902 E903 C904 V905 D906 I907 Y908 E909 L910 F911 D912 P913 V914 Y915 K916 Y917 I918 V919 L920 C921 G922 A923 K924 G925 K926 Q927 V928 V929 H930 V931 H932 T933
L934 R935 S936 V937 S938 G939 S940 N941 S942 H943 Q944 N945 R946 E947 I948 A949 W950 V951 H952 S953 A954 D955 E956 I957 S958 V959 M960 T961 K962 A963 C964 L965 E966 P967 Y970 L971 R972 S973 L974 M975 D976 M977 T978 R979 E980 R981 T982 Q983 L984 L985 A986 V987 D988 S989 K990 E991 R992 I993 H994
L995 I996 K997 P998 A999 I1000 S1001 R1002 I1003 S1004 E1005 W1006 S1007 T1008 I1009 T1010 P1011 T1012 H1013 A1014 A1015 S1016 N1017 C1018 K1019 I1020 N1021 A1022 I1023 S1024 A1025 F1026 N1027 D1028 E1029 Q1030 I1031 F1032 V1033 G1034 Y1035 V1036 D1037 G1038 V1039 I1040 I1041 D1042 V1043 I1044 H1045 D1046 T1047 A1048 L1049 P1050 Q1051 Q1052 F1053 I1054
E1055 E1056 P1057 I1058 D1059 Y1060 L1061 K1062 Q1063 V1064 S1065 P1066 N1067 I1068 L1069 V1070 A1071 S1072 A1073 H1074 S1075 A1076 Q1077 K1078 T1079 V1080 I1081 F1082 Q1083 L1084 E1085 K1086 I1087 D1088 P1089 L1090 Q1091 P1092 N1093 D1094 Q1095 W1096 P1097 L1098 M1099 M1100 D1101 V1102 S1103 T1104 K1105 Y1106 A1107 S1108 L1109 Q1110 E1111 G1112 Q1113 Y1114
I1115 I1116 L1117 F1118 S1119 D1120 H1121 G1122 V1123 C1124 H1125 L1126 D1127 I1128 A1129 N1130 P1131 S1132 A1133 F1134 V1135 K1136 P1137 K1138 D1139 S1140 E1141 E1142 Y1143 I1144 V1145 G1146 F1147 D1148 L1149 K1150 N1151 S1152 L1153 L1154 F1155 L1156 A1157 Y1158 E1159 N1160 M1161 I1162 I1163 D1164 V1165 F1166 R1167 L1168 I1169 F1170 S1171 C1172 N1173 Q1174
L1175 R1176 Y1177 E1178 Q1179 I1180 C1181 E1182 E1183 E1184 I1185 A1186 Q1187 K1188 A1189 K1190 I1191 S1192 Y1193 L1194 V1195 A1196 T1197 D1198 D1199 G1200 T1201 M1202 L1203 A1204 M1205 G1206 F1207 E1208 N1209 L1212 E1213 L1214 F1215 N1219 R1220 Q1223 L1224 I1225 Y1226 S1227 I1228 E1229 E1230 V1231 H1232 E1233 H1234 C1235 I1236 R1237 Q1238
L1239 L1240 F1241 S1242 P1243 C1244 K1245 L1246 L1247 L1248 I1249 S1250 C1251 A1252 E1253 Q1254 L1255 C1256 F1257 W1258 T1261 H1262 M1263 R1264 ASN ASN GLN LEU GLU ARG GLU GLN LYS ARG ARG SER ARG ARG HIS LYS GLN HIS SER VAL THR GLN GLU ASP ALA VAL ASP ALA ALA PRO ILE ALA ALA ASP
ILE ASP VAL ASP VAL THR PHE VAL ALA ASP GLU GLU PHE HIS PRO VAL ASN ARG GLY THR ALA GLU LEU TRP ARG ASN LYS ARG GLY ASN GLU ALA ARG ILE ARG PRO GLU LEU LEU ALA CYS VAL LYS PHE VAL GLY ASN GLU ALA ARG GLN PHE PHE THR ASP ALA HIS PHE SER HIS PHE TYR ALA
ILE ASP ASP GLU GLY VAL TYR TYR HIS LEU GLN LEU GLU LEU SER ARG LEU GLN PRO PRO PRO ASP PRO VAL THR LEU ASP ILE ALA ASN GLN TYR GLU ASP LEU LYS ASN LEU ARG ILE LEU ASP SER PRO LEU MET GLN ASP SER ASP SER GLU GLY ALA ASP VAL VAL GLY ASN
LEU VAL LEU GLU LYS ASN GLY GLY VAL ALA ARG ALA THR PRO ILE LEU GLU GLU ALA SER SER

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, D8	Depositor
Number of particles used	17769	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	1.8	Depositor
Minimum defocus (nm)	1500	Depositor
Maximum defocus (nm)	2400	Depositor
Magnification	81000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	0.222	Depositor
Minimum map value	-0.151	Depositor
Average map value	0.001	Depositor
Map value standard deviation	0.007	Depositor
Recommended contour level	0.03	Depositor
Map size (Å)	432.0, 432.0, 432.0	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.35, 1.35, 1.35	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	B	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	C	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	D	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	E	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	F	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	G	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	H	0.51	6/10231 (0.1%)	0.62	10/13873 (0.1%)
1	I	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	J	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	K	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	L	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	M	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	N	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	O	0.51	6/10231 (0.1%)	0.62	9/13873 (0.1%)
1	P	0.51	6/10231 (0.1%)	0.62	10/13873 (0.1%)
All	All	0.51	96/163696 (0.1%)	0.62	146/221968 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	15
1	B	0	15
1	C	0	15
1	D	0	15
1	E	0	15
1	F	0	15
1	G	0	15

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Mol	Chain	#Chirality outliers	#Planarity outliers
1	H	0	15
1	I	0	15
1	J	0	15
1	K	0	15
1	L	0	15
1	M	0	15
1	N	0	15
1	O	0	15
1	P	0	15
All	All	0	240

All (96) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	250	ALA	CA-CB	-10.19	1.31	1.52
1	J	250	ALA	CA-CB	-10.19	1.31	1.52
1	F	250	ALA	CA-CB	-10.18	1.31	1.52
1	L	250	ALA	CA-CB	-10.17	1.31	1.52
1	B	250	ALA	CA-CB	-10.16	1.31	1.52
1	C	250	ALA	CA-CB	-10.16	1.31	1.52
1	E	250	ALA	CA-CB	-10.16	1.31	1.52
1	A	250	ALA	CA-CB	-10.15	1.31	1.52
1	H	250	ALA	CA-CB	-10.15	1.31	1.52
1	G	250	ALA	CA-CB	-10.15	1.31	1.52
1	I	250	ALA	CA-CB	-10.14	1.31	1.52
1	M	250	ALA	CA-CB	-10.14	1.31	1.52
1	O	250	ALA	CA-CB	-10.14	1.31	1.52
1	K	250	ALA	CA-CB	-10.14	1.31	1.52
1	D	250	ALA	CA-CB	-10.13	1.31	1.52
1	N	250	ALA	CA-CB	-10.12	1.31	1.52
1	L	252	ALA	CA-CB	-8.64	1.34	1.52
1	H	252	ALA	CA-CB	-8.64	1.34	1.52
1	J	252	ALA	CA-CB	-8.62	1.34	1.52
1	N	252	ALA	CA-CB	-8.62	1.34	1.52
1	P	252	ALA	CA-CB	-8.61	1.34	1.52
1	A	252	ALA	CA-CB	-8.60	1.34	1.52
1	B	252	ALA	CA-CB	-8.60	1.34	1.52
1	I	252	ALA	CA-CB	-8.60	1.34	1.52
1	C	252	ALA	CA-CB	-8.59	1.34	1.52
1	D	252	ALA	CA-CB	-8.59	1.34	1.52
1	G	252	ALA	CA-CB	-8.59	1.34	1.52
1	M	252	ALA	CA-CB	-8.58	1.34	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	O	252	ALA	CA-CB	-8.58	1.34	1.52
1	K	252	ALA	CA-CB	-8.58	1.34	1.52
1	F	252	ALA	CA-CB	-8.58	1.34	1.52
1	E	252	ALA	CA-CB	-8.57	1.34	1.52
1	O	414	GLN	C-N	6.97	1.47	1.34
1	P	414	GLN	C-N	6.94	1.47	1.34
1	D	414	GLN	C-N	6.94	1.47	1.34
1	I	414	GLN	C-N	6.93	1.47	1.34
1	F	414	GLN	C-N	6.92	1.47	1.34
1	B	414	GLN	C-N	6.92	1.47	1.34
1	G	414	GLN	C-N	6.92	1.47	1.34
1	A	414	GLN	C-N	6.92	1.47	1.34
1	E	414	GLN	C-N	6.92	1.47	1.34
1	M	414	GLN	C-N	6.91	1.47	1.34
1	K	414	GLN	C-N	6.91	1.47	1.34
1	J	414	GLN	C-N	6.91	1.47	1.34
1	N	414	GLN	C-N	6.91	1.47	1.34
1	C	414	GLN	C-N	6.89	1.47	1.34
1	H	414	GLN	C-N	6.88	1.47	1.34
1	L	414	GLN	C-N	6.87	1.47	1.34
1	E	559	THR	C-N	6.71	1.49	1.34
1	M	559	THR	C-N	6.71	1.49	1.34
1	D	559	THR	C-N	6.70	1.49	1.34
1	L	559	THR	C-N	6.70	1.49	1.34
1	N	559	THR	C-N	6.70	1.49	1.34
1	C	559	THR	C-N	6.69	1.49	1.34
1	I	559	THR	C-N	6.68	1.49	1.34
1	A	559	THR	C-N	6.68	1.49	1.34
1	B	559	THR	C-N	6.67	1.49	1.34
1	K	559	THR	C-N	6.66	1.49	1.34
1	P	559	THR	C-N	6.66	1.49	1.34
1	J	559	THR	C-N	6.66	1.49	1.34
1	H	559	THR	C-N	6.66	1.49	1.34
1	O	559	THR	C-N	6.66	1.49	1.34
1	F	559	THR	C-N	6.64	1.49	1.34
1	G	559	THR	C-N	6.64	1.49	1.34
1	K	250	ALA	CA-C	-5.75	1.38	1.52
1	G	250	ALA	CA-C	-5.74	1.38	1.52
1	B	250	ALA	CA-C	-5.73	1.38	1.52
1	M	250	ALA	CA-C	-5.73	1.38	1.52
1	O	250	ALA	CA-C	-5.73	1.38	1.52
1	E	250	ALA	CA-C	-5.73	1.38	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	250	ALA	CA-C	-5.72	1.38	1.52
1	A	250	ALA	CA-C	-5.72	1.38	1.52
1	J	250	ALA	CA-C	-5.72	1.38	1.52
1	D	250	ALA	CA-C	-5.72	1.38	1.52
1	C	250	ALA	CA-C	-5.71	1.38	1.52
1	P	250	ALA	CA-C	-5.71	1.38	1.52
1	H	250	ALA	CA-C	-5.70	1.38	1.52
1	L	250	ALA	CA-C	-5.70	1.38	1.52
1	F	250	ALA	CA-C	-5.70	1.38	1.52
1	I	250	ALA	CA-C	-5.68	1.38	1.52
1	H	508	TRP	CB-CG	-5.49	1.40	1.50
1	I	508	TRP	CB-CG	-5.47	1.40	1.50
1	E	508	TRP	CB-CG	-5.46	1.40	1.50
1	A	508	TRP	CB-CG	-5.44	1.40	1.50
1	K	508	TRP	CB-CG	-5.44	1.40	1.50
1	D	508	TRP	CB-CG	-5.44	1.40	1.50
1	J	508	TRP	CB-CG	-5.44	1.40	1.50
1	N	508	TRP	CB-CG	-5.44	1.40	1.50
1	F	508	TRP	CB-CG	-5.44	1.40	1.50
1	C	508	TRP	CB-CG	-5.43	1.40	1.50
1	L	508	TRP	CB-CG	-5.43	1.40	1.50
1	B	508	TRP	CB-CG	-5.42	1.40	1.50
1	M	508	TRP	CB-CG	-5.42	1.40	1.50
1	O	508	TRP	CB-CG	-5.42	1.40	1.50
1	G	508	TRP	CB-CG	-5.40	1.40	1.50
1	P	508	TRP	CB-CG	-5.39	1.40	1.50

All (146) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	559	THR	O-C-N	-7.67	110.42	122.70
1	L	559	THR	O-C-N	-7.66	110.44	122.70
1	N	559	THR	O-C-N	-7.66	110.44	122.70
1	J	559	THR	O-C-N	-7.65	110.46	122.70
1	D	559	THR	O-C-N	-7.65	110.46	122.70
1	I	559	THR	O-C-N	-7.65	110.47	122.70
1	C	559	THR	O-C-N	-7.64	110.47	122.70
1	A	559	THR	O-C-N	-7.64	110.48	122.70
1	O	559	THR	O-C-N	-7.64	110.48	122.70
1	P	559	THR	O-C-N	-7.64	110.48	122.70
1	F	559	THR	O-C-N	-7.64	110.48	122.70
1	G	559	THR	O-C-N	-7.63	110.49	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	559	THR	O-C-N	-7.63	110.49	122.70
1	B	559	THR	O-C-N	-7.62	110.51	122.70
1	H	559	THR	O-C-N	-7.62	110.52	122.70
1	K	559	THR	O-C-N	-7.61	110.52	122.70
1	L	414	GLN	O-C-N	7.59	135.52	121.10
1	I	414	GLN	O-C-N	7.58	135.50	121.10
1	P	414	GLN	O-C-N	7.57	135.49	121.10
1	C	414	GLN	O-C-N	7.57	135.49	121.10
1	K	414	GLN	O-C-N	7.57	135.49	121.10
1	F	414	GLN	O-C-N	7.57	135.48	121.10
1	J	414	GLN	O-C-N	7.56	135.46	121.10
1	A	414	GLN	O-C-N	7.56	135.46	121.10
1	N	414	GLN	O-C-N	7.56	135.46	121.10
1	G	414	GLN	O-C-N	7.55	135.45	121.10
1	M	414	GLN	O-C-N	7.55	135.44	121.10
1	E	414	GLN	O-C-N	7.54	135.43	121.10
1	O	414	GLN	O-C-N	7.54	135.43	121.10
1	B	414	GLN	O-C-N	7.54	135.42	121.10
1	D	414	GLN	O-C-N	7.53	135.41	121.10
1	H	414	GLN	O-C-N	7.53	135.41	121.10
1	N	559	THR	C-N-CA	7.42	140.24	121.70
1	M	559	THR	C-N-CA	7.41	140.23	121.70
1	P	559	THR	C-N-CA	7.41	140.23	121.70
1	C	559	THR	C-N-CA	7.40	140.20	121.70
1	J	559	THR	C-N-CA	7.40	140.20	121.70
1	F	559	THR	C-N-CA	7.40	140.20	121.70
1	I	559	THR	C-N-CA	7.40	140.20	121.70
1	L	559	THR	C-N-CA	7.40	140.20	121.70
1	K	559	THR	C-N-CA	7.40	140.19	121.70
1	A	559	THR	C-N-CA	7.39	140.19	121.70
1	O	559	THR	C-N-CA	7.39	140.19	121.70
1	B	559	THR	C-N-CA	7.39	140.18	121.70
1	D	559	THR	C-N-CA	7.39	140.17	121.70
1	G	559	THR	C-N-CA	7.39	140.17	121.70
1	H	559	THR	C-N-CA	7.39	140.17	121.70
1	E	559	THR	C-N-CA	7.38	140.16	121.70
1	J	458	LEU	CA-CB-CG	6.47	130.19	115.30
1	E	458	LEU	CA-CB-CG	6.47	130.18	115.30
1	G	458	LEU	CA-CB-CG	6.46	130.16	115.30
1	N	458	LEU	CA-CB-CG	6.46	130.15	115.30
1	D	458	LEU	CA-CB-CG	6.46	130.15	115.30
1	O	458	LEU	CA-CB-CG	6.45	130.14	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	H	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	B	458	LEU	CA-CB-CG	6.45	130.13	115.30
1	L	458	LEU	CA-CB-CG	6.45	130.12	115.30
1	K	458	LEU	CA-CB-CG	6.44	130.12	115.30
1	C	458	LEU	CA-CB-CG	6.44	130.11	115.30
1	F	458	LEU	CA-CB-CG	6.44	130.11	115.30
1	P	458	LEU	CA-CB-CG	6.43	130.09	115.30
1	I	458	LEU	CA-CB-CG	6.42	130.08	115.30
1	M	458	LEU	CA-CB-CG	6.42	130.08	115.30
1	N	559	THR	CA-C-N	5.74	129.82	117.20
1	C	559	THR	CA-C-N	5.74	129.82	117.20
1	F	559	THR	CA-C-N	5.74	129.82	117.20
1	H	559	THR	CA-C-N	5.73	129.81	117.20
1	L	559	THR	CA-C-N	5.73	129.81	117.20
1	O	559	THR	CA-C-N	5.73	129.81	117.20
1	B	559	THR	CA-C-N	5.73	129.80	117.20
1	J	559	THR	CA-C-N	5.73	129.80	117.20
1	A	559	THR	CA-C-N	5.72	129.79	117.20
1	G	559	THR	CA-C-N	5.72	129.79	117.20
1	P	559	THR	CA-C-N	5.72	129.79	117.20
1	M	559	THR	CA-C-N	5.72	129.78	117.20
1	I	559	THR	CA-C-N	5.72	129.78	117.20
1	E	559	THR	CA-C-N	5.71	129.77	117.20
1	K	559	THR	CA-C-N	5.71	129.77	117.20
1	D	559	THR	CA-C-N	5.71	129.76	117.20
1	C	252	ALA	C-N-CA	-5.27	108.53	121.70
1	B	252	ALA	C-N-CA	-5.26	108.55	121.70
1	E	252	ALA	C-N-CA	-5.26	108.55	121.70
1	G	252	ALA	C-N-CA	-5.26	108.55	121.70
1	A	252	ALA	C-N-CA	-5.26	108.56	121.70
1	I	252	ALA	C-N-CA	-5.26	108.56	121.70
1	O	252	ALA	C-N-CA	-5.25	108.56	121.70
1	D	252	ALA	C-N-CA	-5.25	108.56	121.70
1	F	252	ALA	C-N-CA	-5.25	108.57	121.70
1	K	252	ALA	C-N-CA	-5.25	108.57	121.70
1	M	252	ALA	C-N-CA	-5.25	108.57	121.70
1	N	252	ALA	C-N-CA	-5.25	108.57	121.70
1	P	252	ALA	C-N-CA	-5.25	108.57	121.70
1	H	252	ALA	C-N-CA	-5.25	108.57	121.70
1	J	252	ALA	C-N-CA	-5.25	108.58	121.70
1	L	252	ALA	C-N-CA	-5.24	108.60	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	258	LEU	CA-CB-CG	-5.17	103.41	115.30
1	D	258	LEU	CA-CB-CG	-5.16	103.42	115.30
1	G	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	J	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	L	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	N	258	LEU	CA-CB-CG	-5.16	103.44	115.30
1	A	258	LEU	CA-CB-CG	-5.15	103.45	115.30
1	K	258	LEU	CA-CB-CG	-5.15	103.45	115.30
1	P	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	C	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	H	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	I	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	M	258	LEU	CA-CB-CG	-5.15	103.46	115.30
1	F	258	LEU	CA-CB-CG	-5.14	103.47	115.30
1	O	258	LEU	CA-CB-CG	-5.14	103.47	115.30
1	E	258	LEU	CA-CB-CG	-5.14	103.48	115.30
1	E	517	THR	N-CA-C	5.13	124.86	111.00
1	J	517	THR	N-CA-C	5.13	124.86	111.00
1	F	517	THR	N-CA-C	5.12	124.84	111.00
1	D	517	THR	N-CA-C	5.12	124.82	111.00
1	A	517	THR	N-CA-C	5.12	124.82	111.00
1	L	517	THR	N-CA-C	5.12	124.82	111.00
1	C	517	THR	N-CA-C	5.11	124.80	111.00
1	K	517	THR	N-CA-C	5.11	124.81	111.00
1	I	517	THR	N-CA-C	5.11	124.80	111.00
1	B	517	THR	N-CA-C	5.10	124.78	111.00
1	H	517	THR	N-CA-C	5.10	124.78	111.00
1	N	517	THR	N-CA-C	5.10	124.77	111.00
1	P	517	THR	N-CA-C	5.10	124.77	111.00
1	M	517	THR	N-CA-C	5.10	124.77	111.00
1	O	517	THR	N-CA-C	5.10	124.77	111.00
1	G	517	THR	N-CA-C	5.10	124.76	111.00
1	C	320	ASN	N-CA-C	-5.09	97.25	111.00
1	P	320	ASN	N-CA-C	-5.08	97.28	111.00
1	G	320	ASN	N-CA-C	-5.08	97.28	111.00
1	M	320	ASN	N-CA-C	-5.08	97.29	111.00
1	D	320	ASN	N-CA-C	-5.08	97.30	111.00
1	L	320	ASN	N-CA-C	-5.08	97.29	111.00
1	N	320	ASN	N-CA-C	-5.08	97.30	111.00
1	O	320	ASN	N-CA-C	-5.07	97.30	111.00
1	E	320	ASN	N-CA-C	-5.07	97.30	111.00
1	H	320	ASN	N-CA-C	-5.07	97.31	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	320	ASN	N-CA-C	-5.07	97.31	111.00
1	F	320	ASN	N-CA-C	-5.07	97.31	111.00
1	B	320	ASN	N-CA-C	-5.06	97.33	111.00
1	J	320	ASN	N-CA-C	-5.06	97.33	111.00
1	I	320	ASN	N-CA-C	-5.06	97.35	111.00
1	K	320	ASN	N-CA-C	-5.06	97.35	111.00
1	P	241	LEU	CA-CB-CG	5.00	126.81	115.30
1	H	241	LEU	CA-CB-CG	5.00	126.80	115.30

There are no chirality outliers.

All (240) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	115	ASN	Peptide
1	A	123	TYR	Peptide
1	A	126	SER	Peptide
1	A	143	PRO	Peptide
1	A	236	PRO	Peptide
1	A	251	APK	Mainchain
1	A	252	ALA	Mainchain
1	A	428	GLU	Mainchain
1	A	431	VAL	Peptide
1	A	488	ARG	Peptide
1	A	511	SER	Peptide
1	A	551	GLU	Peptide
1	A	552	ASN	Peptide
1	A	556	SER	Peptide
1	A	8	HIS	Peptide
1	B	115	ASN	Peptide
1	B	123	TYR	Peptide
1	B	126	SER	Peptide
1	B	143	PRO	Peptide
1	B	236	PRO	Peptide
1	B	251	APK	Mainchain
1	B	252	ALA	Mainchain
1	B	428	GLU	Mainchain
1	B	431	VAL	Peptide
1	B	488	ARG	Peptide
1	B	511	SER	Peptide
1	B	551	GLU	Peptide
1	B	552	ASN	Peptide
1	B	556	SER	Peptide

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Mol	Chain	Res	Type	Group
1	B	8	HIS	Peptide
1	C	115	ASN	Peptide
1	C	123	TYR	Peptide
1	C	126	SER	Peptide
1	C	143	PRO	Peptide
1	C	236	PRO	Peptide
1	C	251	APK	Mainchain
1	C	252	ALA	Mainchain
1	C	428	GLU	Mainchain
1	C	431	VAL	Peptide
1	C	488	ARG	Peptide
1	C	511	SER	Peptide
1	C	551	GLU	Peptide
1	C	552	ASN	Peptide
1	C	556	SER	Peptide
1	C	8	HIS	Peptide
1	D	115	ASN	Peptide
1	D	123	TYR	Peptide
1	D	126	SER	Peptide
1	D	143	PRO	Peptide
1	D	236	PRO	Peptide
1	D	251	APK	Mainchain
1	D	252	ALA	Mainchain
1	D	428	GLU	Mainchain
1	D	431	VAL	Peptide
1	D	488	ARG	Peptide
1	D	511	SER	Peptide
1	D	551	GLU	Peptide
1	D	552	ASN	Peptide
1	D	556	SER	Peptide
1	D	8	HIS	Peptide
1	E	115	ASN	Peptide
1	E	123	TYR	Peptide
1	E	126	SER	Peptide
1	E	143	PRO	Peptide
1	E	236	PRO	Peptide
1	E	251	APK	Mainchain
1	E	252	ALA	Mainchain
1	E	428	GLU	Mainchain
1	E	431	VAL	Peptide
1	E	488	ARG	Peptide
1	E	511	SER	Peptide

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Mol	Chain	Res	Type	Group
1	E	551	GLU	Peptide
1	E	552	ASN	Peptide
1	E	556	SER	Peptide
1	E	8	HIS	Peptide
1	F	115	ASN	Peptide
1	F	123	TYR	Peptide
1	F	126	SER	Peptide
1	F	143	PRO	Peptide
1	F	236	PRO	Peptide
1	F	251	APK	Mainchain
1	F	252	ALA	Mainchain
1	F	428	GLU	Mainchain
1	F	431	VAL	Peptide
1	F	488	ARG	Peptide
1	F	511	SER	Peptide
1	F	551	GLU	Peptide
1	F	552	ASN	Peptide
1	F	556	SER	Peptide
1	F	8	HIS	Peptide
1	G	115	ASN	Peptide
1	G	123	TYR	Peptide
1	G	126	SER	Peptide
1	G	143	PRO	Peptide
1	G	236	PRO	Peptide
1	G	251	APK	Mainchain
1	G	252	ALA	Mainchain
1	G	428	GLU	Mainchain
1	G	431	VAL	Peptide
1	G	488	ARG	Peptide
1	G	511	SER	Peptide
1	G	551	GLU	Peptide
1	G	552	ASN	Peptide
1	G	556	SER	Peptide
1	G	8	HIS	Peptide
1	H	115	ASN	Peptide
1	H	123	TYR	Peptide
1	H	126	SER	Peptide
1	H	143	PRO	Peptide
1	H	236	PRO	Peptide
1	H	251	APK	Mainchain
1	H	252	ALA	Mainchain
1	H	428	GLU	Mainchain

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Mol	Chain	Res	Type	Group
1	H	431	VAL	Peptide
1	H	488	ARG	Peptide
1	H	511	SER	Peptide
1	H	551	GLU	Peptide
1	H	552	ASN	Peptide
1	H	556	SER	Peptide
1	H	8	HIS	Peptide
1	I	115	ASN	Peptide
1	I	123	TYR	Peptide
1	I	126	SER	Peptide
1	I	143	PRO	Peptide
1	I	236	PRO	Peptide
1	I	251	APK	Mainchain
1	I	252	ALA	Mainchain
1	I	428	GLU	Mainchain
1	I	431	VAL	Peptide
1	I	488	ARG	Peptide
1	I	511	SER	Peptide
1	I	551	GLU	Peptide
1	I	552	ASN	Peptide
1	I	556	SER	Peptide
1	I	8	HIS	Peptide
1	J	115	ASN	Peptide
1	J	123	TYR	Peptide
1	J	126	SER	Peptide
1	J	143	PRO	Peptide
1	J	236	PRO	Peptide
1	J	251	APK	Mainchain
1	J	252	ALA	Mainchain
1	J	428	GLU	Mainchain
1	J	431	VAL	Peptide
1	J	488	ARG	Peptide
1	J	511	SER	Peptide
1	J	551	GLU	Peptide
1	J	552	ASN	Peptide
1	J	556	SER	Peptide
1	J	8	HIS	Peptide
1	K	115	ASN	Peptide
1	K	123	TYR	Peptide
1	K	126	SER	Peptide
1	K	143	PRO	Peptide
1	K	236	PRO	Peptide

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Mol	Chain	Res	Type	Group
1	K	251	APK	Mainchain
1	K	252	ALA	Mainchain
1	K	428	GLU	Mainchain
1	K	431	VAL	Peptide
1	K	488	ARG	Peptide
1	K	511	SER	Peptide
1	K	551	GLU	Peptide
1	K	552	ASN	Peptide
1	K	556	SER	Peptide
1	K	8	HIS	Peptide
1	L	115	ASN	Peptide
1	L	123	TYR	Peptide
1	L	126	SER	Peptide
1	L	143	PRO	Peptide
1	L	236	PRO	Peptide
1	L	251	APK	Mainchain
1	L	252	ALA	Mainchain
1	L	428	GLU	Mainchain
1	L	431	VAL	Peptide
1	L	488	ARG	Peptide
1	L	511	SER	Peptide
1	L	551	GLU	Peptide
1	L	552	ASN	Peptide
1	L	556	SER	Peptide
1	L	8	HIS	Peptide
1	M	115	ASN	Peptide
1	M	123	TYR	Peptide
1	M	126	SER	Peptide
1	M	143	PRO	Peptide
1	M	236	PRO	Peptide
1	M	251	APK	Mainchain
1	M	252	ALA	Mainchain
1	M	428	GLU	Mainchain
1	M	431	VAL	Peptide
1	M	488	ARG	Peptide
1	M	511	SER	Peptide
1	M	551	GLU	Peptide
1	M	552	ASN	Peptide
1	M	556	SER	Peptide
1	M	8	HIS	Peptide
1	N	115	ASN	Peptide
1	N	123	TYR	Peptide

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Mol	Chain	Res	Type	Group
1	N	126	SER	Peptide
1	N	143	PRO	Peptide
1	N	236	PRO	Peptide
1	N	251	APK	Mainchain
1	N	252	ALA	Mainchain
1	N	428	GLU	Mainchain
1	N	431	VAL	Peptide
1	N	488	ARG	Peptide
1	N	511	SER	Peptide
1	N	551	GLU	Peptide
1	N	552	ASN	Peptide
1	N	556	SER	Peptide
1	N	8	HIS	Peptide
1	O	115	ASN	Peptide
1	O	123	TYR	Peptide
1	O	126	SER	Peptide
1	O	143	PRO	Peptide
1	O	236	PRO	Peptide
1	O	251	APK	Mainchain
1	O	252	ALA	Mainchain
1	O	428	GLU	Mainchain
1	O	431	VAL	Peptide
1	O	488	ARG	Peptide
1	O	511	SER	Peptide
1	O	551	GLU	Peptide
1	O	552	ASN	Peptide
1	O	556	SER	Peptide
1	O	8	HIS	Peptide
1	P	115	ASN	Peptide
1	P	123	TYR	Peptide
1	P	126	SER	Peptide
1	P	143	PRO	Peptide
1	P	236	PRO	Peptide
1	P	251	APK	Mainchain
1	P	252	ALA	Mainchain
1	P	428	GLU	Mainchain
1	P	431	VAL	Peptide
1	P	488	ARG	Peptide
1	P	511	SER	Peptide
1	P	551	GLU	Peptide
1	P	552	ASN	Peptide
1	P	556	SER	Peptide

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Mol	Chain	Res	Type	Group
1	P	8	HIS	Peptide

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	10045	0	10046	666	0
1	B	10045	0	10046	684	0
1	C	10045	0	10046	679	0
1	D	10045	0	10046	692	0
1	E	10045	0	10046	670	0
1	F	10045	0	10046	692	0
1	G	10045	0	10046	683	0
1	H	10045	0	10046	661	0
1	I	10045	0	10046	671	0
1	J	10045	0	10046	666	0
1	K	10045	0	10046	694	0
1	L	10045	0	10046	686	0
1	M	10045	0	10045	674	0
1	N	10045	0	10046	662	0
1	O	10045	0	10046	666	0
1	P	10045	0	10046	672	0
2	A	30	0	9	6	0
2	B	30	0	9	7	0
2	C	30	0	9	6	0
2	D	30	0	9	6	0
2	E	30	0	9	6	0
2	F	30	0	9	6	0
2	G	30	0	9	6	0
2	H	30	0	9	6	0
2	I	30	0	9	6	0
2	J	30	0	9	6	0
2	K	30	0	9	6	0
2	L	30	0	9	6	0
2	M	30	0	9	6	0
2	N	30	0	9	6	0
2	O	30	0	9	6	0
2	P	30	0	9	6	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
All	All	161200	0	160879	10606	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 33.

All (10606) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:875:LEU:HD11	1:I:911:PHE:CE2	1.25	1.72
1:E:875:LEU:HD11	1:E:911:PHE:CE2	1.25	1.72
1:J:875:LEU:HD11	1:J:911:PHE:CE2	1.25	1.71
1:F:875:LEU:HD11	1:F:911:PHE:CE2	1.25	1.71
1:C:875:LEU:HD11	1:C:911:PHE:CE2	1.25	1.71
1:D:875:LEU:HD11	1:D:911:PHE:CE2	1.25	1.70
1:K:875:LEU:HD11	1:K:911:PHE:CE2	1.25	1.70
1:L:875:LEU:HD11	1:L:911:PHE:CE2	1.25	1.69
1:B:875:LEU:HD11	1:B:911:PHE:CE2	1.25	1.67
1:C:875:LEU:CD1	1:C:911:PHE:CE2	1.77	1.67
1:P:875:LEU:HD11	1:P:911:PHE:CE2	1.25	1.67
1:G:875:LEU:HD11	1:G:911:PHE:CE2	1.25	1.67
1:M:875:LEU:HD11	1:M:911:PHE:CE2	1.25	1.67
1:H:875:LEU:CD1	1:H:911:PHE:CE2	1.77	1.66
1:B:875:LEU:CD1	1:B:911:PHE:CE2	1.77	1.66
1:O:875:LEU:CD1	1:O:911:PHE:CE2	1.77	1.66
1:N:875:LEU:CD1	1:N:911:PHE:CE2	1.77	1.66
1:M:875:LEU:CD1	1:M:911:PHE:CE2	1.77	1.66
1:I:518:LEU:HD22	1:I:643:TYR:CD1	1.32	1.65
1:F:518:LEU:HD22	1:F:643:TYR:CD1	1.32	1.65
1:L:875:LEU:CD1	1:L:911:PHE:CE2	1.77	1.65
1:J:518:LEU:HD22	1:J:643:TYR:CD1	1.32	1.64
1:G:518:LEU:HD22	1:G:643:TYR:CD1	1.32	1.63
1:P:518:LEU:HD22	1:P:643:TYR:CD1	1.32	1.63
1:E:518:LEU:HD22	1:E:643:TYR:CD1	1.32	1.63
1:O:875:LEU:HD11	1:O:911:PHE:CE2	1.25	1.63
1:H:875:LEU:HD11	1:H:911:PHE:CE2	1.25	1.62
1:B:518:LEU:HD22	1:B:643:TYR:CD1	1.32	1.61
1:D:875:LEU:CD1	1:D:911:PHE:CE2	1.77	1.61
1:A:875:LEU:CD1	1:A:911:PHE:CE2	1.77	1.61
1:M:518:LEU:HD22	1:M:643:TYR:CD1	1.32	1.61
1:K:518:LEU:HD22	1:K:643:TYR:CD1	1.32	1.60
1:K:875:LEU:CD1	1:K:911:PHE:CE2	1.77	1.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:875:LEU:HD11	1:F:911:PHE:CD2	1.36	1.60
1:G:875:LEU:HD11	1:G:911:PHE:CD2	1.36	1.60
1:D:518:LEU:HD22	1:D:643:TYR:CD1	1.32	1.60
1:L:518:LEU:HD22	1:L:643:TYR:CD1	1.32	1.60
1:P:875:LEU:HD11	1:P:911:PHE:CD2	1.36	1.60
1:C:518:LEU:HD22	1:C:643:TYR:CD1	1.32	1.59
1:I:875:LEU:HD11	1:I:911:PHE:CD2	1.36	1.59
1:E:875:LEU:HD11	1:E:911:PHE:CD2	1.36	1.59
1:H:875:LEU:HD11	1:H:911:PHE:CD2	1.36	1.59
1:N:518:LEU:HD22	1:N:643:TYR:CD1	1.32	1.59
1:O:875:LEU:HD11	1:O:911:PHE:CD2	1.36	1.59
1:J:875:LEU:HD11	1:J:911:PHE:CD2	1.36	1.59
1:O:875:LEU:CD1	1:O:911:PHE:HE2	1.08	1.59
1:A:518:LEU:HD22	1:A:643:TYR:CD1	1.32	1.58
1:H:875:LEU:CD1	1:H:911:PHE:HE2	1.08	1.58
1:N:875:LEU:HD11	1:N:911:PHE:CE2	1.25	1.58
1:G:875:LEU:CD1	1:G:911:PHE:HE2	1.08	1.58
1:P:875:LEU:CD1	1:P:911:PHE:HE2	1.08	1.58
1:H:518:LEU:HD22	1:H:643:TYR:CD1	1.32	1.58
1:A:875:LEU:HD11	1:A:911:PHE:CE2	1.25	1.58
1:D:875:LEU:HD11	1:D:911:PHE:CD2	1.36	1.57
1:O:518:LEU:HD22	1:O:643:TYR:CD1	1.32	1.57
1:E:875:LEU:CD1	1:E:911:PHE:CE2	1.77	1.57
1:F:875:LEU:CD1	1:F:911:PHE:CE2	1.77	1.57
1:K:875:LEU:HD11	1:K:911:PHE:CD2	1.36	1.57
1:N:875:LEU:HD11	1:N:911:PHE:CD2	1.36	1.57
1:A:875:LEU:HD11	1:A:911:PHE:CD2	1.36	1.57
1:J:875:LEU:CD1	1:J:911:PHE:CE2	1.77	1.56
1:G:875:LEU:CD1	1:G:911:PHE:CE2	1.77	1.56
1:P:875:LEU:CD1	1:P:911:PHE:CE2	1.77	1.56
1:B:875:LEU:HD11	1:B:911:PHE:CD2	1.36	1.55
1:M:875:LEU:HD11	1:M:911:PHE:CD2	1.36	1.55
1:N:875:LEU:CD1	1:N:911:PHE:HE2	1.08	1.55
1:F:875:LEU:CD1	1:F:911:PHE:HE2	1.08	1.55
1:I:875:LEU:CD1	1:I:911:PHE:CE2	1.77	1.55
1:A:875:LEU:CD1	1:A:911:PHE:HE2	1.08	1.54
1:I:875:LEU:CD1	1:I:911:PHE:HE2	1.08	1.54
1:L:875:LEU:HD11	1:L:911:PHE:CD2	1.36	1.54
1:C:875:LEU:HD11	1:C:911:PHE:CD2	1.36	1.53
1:K:875:LEU:CD1	1:K:911:PHE:HE2	1.08	1.51
1:E:875:LEU:CD1	1:E:911:PHE:HE2	1.08	1.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:875:LEU:CD1	1:D:911:PHE:HE2	1.08	1.50
1:J:875:LEU:CD1	1:J:911:PHE:HE2	1.08	1.50
1:M:875:LEU:CD1	1:M:911:PHE:HE2	1.08	1.50
1:C:875:LEU:CD1	1:C:911:PHE:HE2	1.08	1.50
1:B:875:LEU:CD1	1:B:911:PHE:HE2	1.08	1.49
1:L:875:LEU:CD1	1:L:911:PHE:HE2	1.08	1.49
1:B:313:PRO:CB	1:B:338:TRP:HZ2	1.39	1.36
1:C:313:PRO:CB	1:C:338:TRP:HZ2	1.39	1.36
1:J:313:PRO:CB	1:J:338:TRP:HZ2	1.39	1.36
1:L:313:PRO:CB	1:L:338:TRP:HZ2	1.39	1.36
1:M:313:PRO:CB	1:M:338:TRP:HZ2	1.39	1.36
1:D:313:PRO:CB	1:D:338:TRP:HZ2	1.39	1.36
1:E:313:PRO:CB	1:E:338:TRP:HZ2	1.39	1.36
1:K:313:PRO:CB	1:K:338:TRP:HZ2	1.39	1.36
1:F:313:PRO:CB	1:F:338:TRP:HZ2	1.39	1.36
1:I:313:PRO:CB	1:I:338:TRP:HZ2	1.39	1.36
1:A:313:PRO:CB	1:A:338:TRP:HZ2	1.39	1.35
1:G:313:PRO:CB	1:G:338:TRP:HZ2	1.39	1.35
1:N:313:PRO:CB	1:N:338:TRP:HZ2	1.39	1.35
1:P:313:PRO:CB	1:P:338:TRP:HZ2	1.39	1.35
1:H:313:PRO:CB	1:H:338:TRP:HZ2	1.39	1.35
1:O:313:PRO:CB	1:O:338:TRP:HZ2	1.39	1.35
1:B:633:THR:HG21	1:B:642:THR:O	1.20	1.35
1:F:389:ILE:HD13	1:F:446:HIS:NE2	1.42	1.35
1:I:389:ILE:HD13	1:I:446:HIS:NE2	1.42	1.35
1:M:633:THR:HG21	1:M:642:THR:O	1.20	1.35
1:N:518:LEU:CD2	1:N:643:TYR:HD1	1.40	1.34
1:P:518:LEU:CD2	1:P:643:TYR:HD1	1.40	1.34
1:A:518:LEU:CD2	1:A:643:TYR:HD1	1.40	1.34
1:G:518:LEU:CD2	1:G:643:TYR:HD1	1.40	1.34
1:B:518:LEU:CD2	1:B:643:TYR:HD1	1.40	1.34
1:G:633:THR:HG21	1:G:642:THR:O	1.20	1.34
1:H:389:ILE:HD13	1:H:446:HIS:NE2	1.42	1.34
1:M:518:LEU:CD2	1:M:643:TYR:HD1	1.40	1.34
1:H:518:LEU:CD2	1:H:643:TYR:HD1	1.40	1.34
1:L:389:ILE:HD13	1:L:446:HIS:NE2	1.42	1.34
1:O:389:ILE:HD13	1:O:446:HIS:NE2	1.42	1.34
1:P:633:THR:HG21	1:P:642:THR:O	1.20	1.34
1:F:248:GLN:OE1	1:F:268:PHE:CE2	1.81	1.33
1:I:248:GLN:OE1	1:I:268:PHE:CE2	1.81	1.33
1:J:389:ILE:HD13	1:J:446:HIS:NE2	1.42	1.33

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:LEU:CD2	1:O:643:TYR:HD1	1.40	1.33
1:G:248:GLN:OE1	1:G:268:PHE:CE2	1.81	1.33
1:P:248:GLN:OE1	1:P:268:PHE:CE2	1.81	1.33
1:B:248:GLN:OE1	1:B:268:PHE:CE2	1.81	1.33
1:C:248:GLN:OE1	1:C:268:PHE:CE2	1.81	1.33
1:D:389:ILE:HD13	1:D:446:HIS:NE2	1.42	1.33
1:E:389:ILE:HD13	1:E:446:HIS:NE2	1.42	1.33
1:M:248:GLN:OE1	1:M:268:PHE:CE2	1.81	1.33
1:C:389:ILE:HD13	1:C:446:HIS:NE2	1.42	1.33
1:O:633:THR:HG21	1:O:642:THR:O	1.20	1.33
1:D:518:LEU:CD2	1:D:643:TYR:HD1	1.40	1.33
1:K:389:ILE:HD13	1:K:446:HIS:NE2	1.42	1.33
1:K:518:LEU:CD2	1:K:643:TYR:HD1	1.40	1.33
1:L:248:GLN:OE1	1:L:268:PHE:CE2	1.81	1.32
1:E:518:LEU:CD2	1:E:643:TYR:HD1	1.40	1.32
1:J:518:LEU:CD2	1:J:643:TYR:HD1	1.40	1.32
1:O:248:GLN:OE1	1:O:268:PHE:HE2	1.06	1.32
1:B:389:ILE:HD13	1:B:446:HIS:NE2	1.42	1.32
1:C:518:LEU:CD2	1:C:643:TYR:HD1	1.40	1.32
1:H:633:THR:HG21	1:H:642:THR:O	1.20	1.32
1:L:518:LEU:CD2	1:L:643:TYR:HD1	1.40	1.32
1:B:462:TYR:CE2	1:B:494:PHE:HE1	1.47	1.32
1:M:389:ILE:HD13	1:M:446:HIS:NE2	1.42	1.32
1:M:462:TYR:CE2	1:M:494:PHE:HE1	1.47	1.32
1:N:462:TYR:CE2	1:N:494:PHE:HE1	1.47	1.32
1:A:462:TYR:CE2	1:A:494:PHE:HE1	1.47	1.32
1:E:248:GLN:OE1	1:E:268:PHE:CE2	1.81	1.32
1:H:248:GLN:OE1	1:H:268:PHE:HE2	1.06	1.32
1:C:462:TYR:CE2	1:C:494:PHE:HE1	1.47	1.31
1:J:248:GLN:OE1	1:J:268:PHE:CE2	1.81	1.31
1:N:248:GLN:OE1	1:N:268:PHE:HE2	1.06	1.31
1:A:248:GLN:OE1	1:A:268:PHE:CE2	1.81	1.31
1:I:518:LEU:CD2	1:I:643:TYR:HD1	1.40	1.31
1:O:248:GLN:OE1	1:O:268:PHE:CE2	1.81	1.31
1:H:248:GLN:OE1	1:H:268:PHE:CE2	1.81	1.31
1:N:248:GLN:OE1	1:N:268:PHE:CE2	1.81	1.31
1:O:462:TYR:CE2	1:O:494:PHE:HE1	1.47	1.31
1:P:248:GLN:OE1	1:P:268:PHE:HE2	1.06	1.31
1:D:462:TYR:CE2	1:D:494:PHE:HE1	1.47	1.31
1:F:518:LEU:CD2	1:F:643:TYR:HD1	1.40	1.31
1:H:462:TYR:CE2	1:H:494:PHE:HE1	1.47	1.31

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:462:TYR:CE2	1:K:494:PHE:HE1	1.47	1.31
1:L:462:TYR:CE2	1:L:494:PHE:HE1	1.47	1.31
1:A:248:GLN:OE1	1:A:268:PHE:HE2	1.06	1.31
1:G:389:ILE:HD13	1:G:446:HIS:NE2	1.42	1.31
1:G:248:GLN:OE1	1:G:268:PHE:HE2	1.06	1.30
1:I:462:TYR:CE2	1:I:494:PHE:HE1	1.47	1.30
1:G:462:TYR:CE2	1:G:494:PHE:HE1	1.47	1.30
1:K:248:GLN:OE1	1:K:268:PHE:CE2	1.81	1.30
1:P:389:ILE:HD13	1:P:446:HIS:NE2	1.42	1.30
1:P:462:TYR:CE2	1:P:494:PHE:HE1	1.47	1.30
1:A:633:THR:HG21	1:A:642:THR:O	1.20	1.30
1:D:248:GLN:OE1	1:D:268:PHE:CE2	1.81	1.30
1:E:462:TYR:CE2	1:E:494:PHE:HE1	1.47	1.30
1:N:389:ILE:HD13	1:N:446:HIS:NE2	1.42	1.30
1:F:462:TYR:CE2	1:F:494:PHE:HE1	1.47	1.30
1:I:248:GLN:OE1	1:I:268:PHE:HE2	1.06	1.30
1:J:462:TYR:CE2	1:J:494:PHE:HE1	1.47	1.30
1:A:389:ILE:HD13	1:A:446:HIS:NE2	1.42	1.30
1:M:248:GLN:OE1	1:M:268:PHE:HE2	1.06	1.30
1:J:248:GLN:OE1	1:J:268:PHE:HE2	1.06	1.29
1:N:633:THR:HG21	1:N:642:THR:O	1.20	1.29
1:B:248:GLN:OE1	1:B:268:PHE:HE2	1.06	1.29
1:L:248:GLN:OE1	1:L:268:PHE:HE2	1.06	1.29
1:F:248:GLN:OE1	1:F:268:PHE:HE2	1.06	1.29
1:K:248:GLN:OE1	1:K:268:PHE:HE2	1.06	1.29
1:E:248:GLN:OE1	1:E:268:PHE:HE2	1.06	1.28
1:C:248:GLN:OE1	1:C:268:PHE:HE2	1.06	1.28
1:D:248:GLN:OE1	1:D:268:PHE:HE2	1.06	1.28
1:D:633:THR:HG21	1:D:642:THR:O	1.20	1.28
1:K:633:THR:HG21	1:K:642:THR:O	1.20	1.27
1:D:313:PRO:CA	1:D:338:TRP:HZ2	1.48	1.27
1:E:633:THR:HG21	1:E:642:THR:O	1.20	1.27
1:F:633:THR:HG21	1:F:642:THR:O	1.20	1.27
1:I:633:THR:HG21	1:I:642:THR:O	1.20	1.27
1:K:313:PRO:CA	1:K:338:TRP:HZ2	1.48	1.27
1:J:313:PRO:CA	1:J:338:TRP:HZ2	1.48	1.27
1:J:633:THR:HG21	1:J:642:THR:O	1.20	1.27
1:O:313:PRO:CA	1:O:338:TRP:HZ2	1.48	1.27
1:C:633:THR:HG21	1:C:642:THR:O	1.20	1.26
1:E:313:PRO:CA	1:E:338:TRP:HZ2	1.48	1.26
1:H:313:PRO:CA	1:H:338:TRP:HZ2	1.48	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:313:PRO:CA	1:N:338:TRP:HZ2	1.48	1.26
1:A:313:PRO:CA	1:A:338:TRP:HZ2	1.48	1.26
1:C:313:PRO:CA	1:C:338:TRP:HZ2	1.48	1.26
1:I:313:PRO:CA	1:I:338:TRP:HZ2	1.48	1.26
1:L:313:PRO:CA	1:L:338:TRP:HZ2	1.48	1.26
1:F:313:PRO:CA	1:F:338:TRP:HZ2	1.48	1.26
1:G:313:PRO:CA	1:G:338:TRP:HZ2	1.48	1.26
1:P:313:PRO:CA	1:P:338:TRP:HZ2	1.48	1.26
1:L:633:THR:HG21	1:L:642:THR:O	1.20	1.25
1:M:313:PRO:CA	1:M:338:TRP:HZ2	1.48	1.25
1:B:313:PRO:CA	1:B:338:TRP:HZ2	1.48	1.25
1:B:121:ALA:HB1	1:C:276:SER:CB	1.67	1.23
1:L:212:ASP:OD2	1:M:209:SER:OG	1.57	1.23
1:B:508:TRP:CA	1:B:606:GLY:HA3	1.70	1.22
1:L:508:TRP:CA	1:L:606:GLY:HA3	1.70	1.22
1:M:508:TRP:CA	1:M:606:GLY:HA3	1.70	1.22
1:C:508:TRP:CA	1:C:606:GLY:HA3	1.70	1.22
1:E:508:TRP:CA	1:E:606:GLY:HA3	1.70	1.22
1:I:508:TRP:CA	1:I:606:GLY:HA3	1.70	1.22
1:J:508:TRP:CA	1:J:606:GLY:HA3	1.70	1.22
1:A:508:TRP:CA	1:A:606:GLY:HA3	1.70	1.21
1:D:508:TRP:CA	1:D:606:GLY:HA3	1.70	1.21
1:K:508:TRP:CA	1:K:606:GLY:HA3	1.70	1.21
1:N:508:TRP:CA	1:N:606:GLY:HA3	1.70	1.21
1:F:508:TRP:CA	1:F:606:GLY:HA3	1.70	1.21
1:P:508:TRP:CA	1:P:606:GLY:HA3	1.70	1.21
1:B:313:PRO:HA	1:B:338:TRP:CZ2	1.77	1.20
1:G:508:TRP:CA	1:G:606:GLY:HA3	1.70	1.20
1:M:313:PRO:HA	1:M:338:TRP:CZ2	1.77	1.20
1:A:313:PRO:HA	1:A:338:TRP:CZ2	1.77	1.20
1:C:313:PRO:HA	1:C:338:TRP:CZ2	1.77	1.20
1:D:251:APK:O	1:D:253:TRP:N	1.75	1.20
1:H:508:TRP:CA	1:H:606:GLY:HA3	1.70	1.20
1:K:251:APK:O	1:K:253:TRP:N	1.75	1.20
1:L:313:PRO:HA	1:L:338:TRP:CZ2	1.77	1.20
1:N:313:PRO:HA	1:N:338:TRP:CZ2	1.77	1.20
1:O:508:TRP:CA	1:O:606:GLY:HA3	1.70	1.20
1:D:313:PRO:HA	1:D:338:TRP:CZ2	1.77	1.20
1:I:313:PRO:CA	1:I:338:TRP:CZ2	2.25	1.20
1:L:276:SER:HB3	1:M:121:ALA:HB1	1.20	1.20
1:F:313:PRO:CA	1:F:338:TRP:CZ2	2.25	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:313:PRO:CA	1:H:338:TRP:CZ2	2.25	1.19
1:I:313:PRO:HA	1:I:338:TRP:CZ2	1.77	1.19
1:N:251:APK:O	1:N:253:TRP:N	1.75	1.19
1:A:251:APK:O	1:A:253:TRP:N	1.75	1.19
1:F:251:APK:O	1:F:253:TRP:N	1.75	1.19
1:F:313:PRO:HA	1:F:338:TRP:CZ2	1.77	1.19
1:J:313:PRO:CB	1:J:338:TRP:CZ2	2.26	1.19
1:K:313:PRO:HA	1:K:338:TRP:CZ2	1.77	1.19
1:O:313:PRO:CA	1:O:338:TRP:CZ2	2.25	1.19
1:C:313:PRO:CB	1:C:338:TRP:CZ2	2.26	1.19
1:E:313:PRO:CB	1:E:338:TRP:CZ2	2.26	1.19
1:G:251:APK:O	1:G:253:TRP:N	1.75	1.19
1:L:313:PRO:CB	1:L:338:TRP:CZ2	2.26	1.19
1:A:313:PRO:CB	1:A:338:TRP:CZ2	2.26	1.19
1:G:313:PRO:HA	1:G:338:TRP:CZ2	1.77	1.19
1:H:251:APK:O	1:H:253:TRP:N	1.75	1.19
1:J:251:APK:O	1:J:253:TRP:N	1.75	1.19
1:N:313:PRO:CB	1:N:338:TRP:CZ2	2.26	1.19
1:O:313:PRO:HA	1:O:338:TRP:CZ2	1.77	1.19
1:P:251:APK:O	1:P:253:TRP:N	1.75	1.19
1:P:313:PRO:CB	1:P:338:TRP:CZ2	2.26	1.19
1:E:251:APK:O	1:E:253:TRP:N	1.75	1.19
1:E:313:PRO:CA	1:E:338:TRP:CZ2	2.25	1.19
1:F:313:PRO:CB	1:F:338:TRP:CZ2	2.26	1.19
1:G:313:PRO:CB	1:G:338:TRP:CZ2	2.26	1.19
1:I:251:APK:O	1:I:253:TRP:N	1.75	1.19
1:J:313:PRO:HA	1:J:338:TRP:CZ2	1.77	1.19
1:O:251:APK:O	1:O:253:TRP:N	1.75	1.19
1:P:313:PRO:HA	1:P:338:TRP:CZ2	1.77	1.19
1:C:251:APK:O	1:C:253:TRP:N	1.75	1.18
1:H:313:PRO:HA	1:H:338:TRP:CZ2	1.77	1.18
1:J:313:PRO:CA	1:J:338:TRP:CZ2	2.25	1.18
1:M:313:PRO:CB	1:M:338:TRP:CZ2	2.26	1.18
1:N:313:PRO:CA	1:N:338:TRP:CZ2	2.25	1.18
1:A:313:PRO:CA	1:A:338:TRP:CZ2	2.25	1.18
1:B:313:PRO:CB	1:B:338:TRP:CZ2	2.26	1.18
1:E:313:PRO:HA	1:E:338:TRP:CZ2	1.77	1.18
1:I:313:PRO:CB	1:I:338:TRP:CZ2	2.26	1.18
1:B:251:APK:O	1:B:253:TRP:N	1.75	1.17
1:C:313:PRO:CA	1:C:338:TRP:CZ2	2.25	1.17
1:D:313:PRO:CB	1:D:338:TRP:CZ2	2.26	1.17

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:313:PRO:CA	1:D:338:TRP:CZ2	2.25	1.17
1:G:313:PRO:CA	1:G:338:TRP:CZ2	2.25	1.17
1:K:313:PRO:CB	1:K:338:TRP:CZ2	2.26	1.17
1:K:313:PRO:CA	1:K:338:TRP:CZ2	2.25	1.17
1:L:251:APK:O	1:L:253:TRP:N	1.75	1.17
1:M:251:APK:O	1:M:253:TRP:N	1.75	1.17
1:B:313:PRO:CA	1:B:338:TRP:CZ2	2.25	1.17
1:L:313:PRO:CA	1:L:338:TRP:CZ2	2.25	1.17
1:M:313:PRO:CA	1:M:338:TRP:CZ2	2.25	1.17
1:P:313:PRO:CA	1:P:338:TRP:CZ2	2.25	1.17
1:C:209:SER:OG	1:D:212:ASP:OD2	1.62	1.17
1:G:508:TRP:HA	1:G:606:GLY:CA	1.75	1.17
1:P:508:TRP:HA	1:P:606:GLY:CA	1.75	1.17
1:H:313:PRO:CB	1:H:338:TRP:CZ2	2.26	1.17
1:N:389:ILE:HD13	1:N:446:HIS:CE1	1.80	1.17
1:O:313:PRO:CB	1:O:338:TRP:CZ2	2.26	1.17
1:A:389:ILE:HD13	1:A:446:HIS:CE1	1.80	1.16
1:E:389:ILE:HD13	1:E:446:HIS:CE1	1.80	1.16
1:F:508:TRP:HA	1:F:606:GLY:CA	1.75	1.16
1:G:442:SER:O	1:G:446:HIS:CD2	1.98	1.16
1:H:442:SER:O	1:H:446:HIS:CD2	1.98	1.16
1:I:508:TRP:HA	1:I:606:GLY:CA	1.75	1.16
1:J:389:ILE:HD13	1:J:446:HIS:CE1	1.80	1.16
1:O:442:SER:O	1:O:446:HIS:CD2	1.98	1.16
1:P:442:SER:O	1:P:446:HIS:CD2	1.98	1.16
1:F:389:ILE:HD13	1:F:446:HIS:CE1	1.80	1.16
1:O:508:TRP:HA	1:O:606:GLY:CA	1.75	1.16
1:H:508:TRP:HA	1:H:606:GLY:CA	1.75	1.16
1:O:389:ILE:HD13	1:O:446:HIS:CE1	1.80	1.16
1:A:442:SER:O	1:A:446:HIS:CD2	1.98	1.16
1:B:442:SER:O	1:B:446:HIS:CD2	1.98	1.16
1:E:209:SER:OG	1:F:212:ASP:OD2	1.63	1.16
1:E:508:TRP:HA	1:E:606:GLY:CA	1.75	1.16
1:H:389:ILE:HD13	1:H:446:HIS:CE1	1.80	1.16
1:K:389:ILE:HD13	1:K:446:HIS:CE1	1.80	1.16
1:M:442:SER:O	1:M:446:HIS:CD2	1.98	1.16
1:B:389:ILE:HD13	1:B:446:HIS:CE1	1.80	1.16
1:D:389:ILE:HD13	1:D:446:HIS:CE1	1.80	1.16
1:I:389:ILE:HD13	1:I:446:HIS:CE1	1.80	1.16
1:J:508:TRP:HA	1:J:606:GLY:CA	1.75	1.16
1:M:389:ILE:HD13	1:M:446:HIS:CE1	1.80	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:442:SER:O	1:N:446:HIS:CD2	1.98	1.16
1:O:276:SER:HB3	1:P:121:ALA:HB1	1.24	1.16
1:B:508:TRP:HA	1:B:606:GLY:CA	1.75	1.15
1:C:442:SER:O	1:C:446:HIS:CD2	1.98	1.15
1:C:508:TRP:HA	1:C:606:GLY:CA	1.75	1.15
1:D:508:TRP:HA	1:D:606:GLY:CA	1.75	1.15
1:K:276:SER:HB3	1:L:121:ALA:HB1	1.23	1.15
1:F:442:SER:O	1:F:446:HIS:CD2	1.98	1.15
1:I:442:SER:O	1:I:446:HIS:CD2	1.98	1.15
1:K:508:TRP:HA	1:K:606:GLY:CA	1.75	1.15
1:L:508:TRP:HA	1:L:606:GLY:CA	1.75	1.15
1:M:508:TRP:HA	1:M:606:GLY:CA	1.75	1.15
1:K:442:SER:O	1:K:446:HIS:CD2	1.98	1.15
1:L:442:SER:O	1:L:446:HIS:CD2	1.98	1.15
1:D:442:SER:O	1:D:446:HIS:CD2	1.98	1.15
1:G:389:ILE:HD13	1:G:446:HIS:CE1	1.80	1.15
1:N:508:TRP:HA	1:N:606:GLY:CA	1.75	1.15
1:P:389:ILE:HD13	1:P:446:HIS:CE1	1.80	1.15
1:A:508:TRP:HA	1:A:606:GLY:CA	1.75	1.15
1:A:276:SER:HB3	1:H:121:ALA:HB1	1.21	1.14
1:E:442:SER:O	1:E:446:HIS:CD2	1.98	1.14
1:G:121:ALA:HB1	1:H:276:SER:HB3	1.21	1.14
1:J:442:SER:O	1:J:446:HIS:CD2	1.98	1.14
1:L:389:ILE:HD13	1:L:446:HIS:CE1	1.80	1.14
1:F:633:THR:CG2	1:F:642:THR:O	1.96	1.14
1:G:633:THR:CG2	1:G:642:THR:O	1.96	1.14
1:M:276:SER:HB3	1:N:121:ALA:HB1	1.21	1.14
1:P:633:THR:CG2	1:P:642:THR:O	1.96	1.14
1:I:633:THR:CG2	1:I:642:THR:O	1.96	1.14
1:C:389:ILE:HD13	1:C:446:HIS:CE1	1.80	1.13
1:N:276:SER:HB3	1:O:121:ALA:HB1	1.19	1.13
1:A:633:THR:CG2	1:A:642:THR:O	1.96	1.13
1:N:633:THR:CG2	1:N:642:THR:O	1.96	1.13
1:D:121:ALA:HB1	1:E:276:SER:HB3	1.14	1.12
1:F:622:LEU:HB2	1:F:634:ASP:HB2	1.31	1.12
1:I:622:LEU:HB2	1:I:634:ASP:HB2	1.31	1.12
1:N:622:LEU:HB2	1:N:634:ASP:HB2	1.31	1.13
1:H:622:LEU:HB2	1:H:634:ASP:HB2	1.31	1.12
1:A:622:LEU:HB2	1:A:634:ASP:HB2	1.31	1.12
1:E:622:LEU:HB2	1:E:634:ASP:HB2	1.31	1.12
1:O:622:LEU:HB2	1:O:634:ASP:HB2	1.31	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:633:THR:CG2	1:H:642:THR:O	1.96	1.12
1:J:622:LEU:HB2	1:J:634:ASP:HB2	1.31	1.12
1:P:622:LEU:HB2	1:P:634:ASP:HB2	1.31	1.12
1:A:378:SER:H	1:A:422:ILE:CD1	1.63	1.12
1:B:633:THR:CG2	1:B:642:THR:O	1.96	1.12
1:E:504:ASP:OD1	1:E:608:ASN:ND2	1.83	1.12
1:G:622:LEU:HB2	1:G:634:ASP:HB2	1.31	1.12
1:J:504:ASP:OD1	1:J:608:ASN:ND2	1.83	1.12
1:K:633:THR:CG2	1:K:642:THR:O	1.96	1.12
1:O:633:THR:CG2	1:O:642:THR:O	1.96	1.12
1:D:633:THR:CG2	1:D:642:THR:O	1.96	1.12
1:H:378:SER:H	1:H:422:ILE:CD1	1.63	1.12
1:J:633:THR:CG2	1:J:642:THR:O	1.96	1.12
1:M:633:THR:CG2	1:M:642:THR:O	1.96	1.12
1:N:378:SER:H	1:N:422:ILE:CD1	1.63	1.12
1:O:378:SER:H	1:O:422:ILE:CD1	1.63	1.12
1:B:378:SER:H	1:B:422:ILE:CD1	1.63	1.11
1:E:633:THR:CG2	1:E:642:THR:O	1.96	1.11
1:G:378:SER:H	1:G:422:ILE:CD1	1.63	1.11
1:N:504:ASP:OD1	1:N:608:ASN:ND2	1.83	1.11
1:O:504:ASP:OD1	1:O:608:ASN:ND2	1.83	1.11
1:A:504:ASP:OD1	1:A:608:ASN:ND2	1.83	1.11
1:C:633:THR:CG2	1:C:642:THR:O	1.96	1.11
1:D:504:ASP:OD1	1:D:608:ASN:ND2	1.83	1.11
1:E:462:TYR:CE2	1:E:494:PHE:CE1	2.39	1.11
1:F:462:TYR:CE2	1:F:494:PHE:CE1	2.39	1.11
1:F:504:ASP:OD1	1:F:608:ASN:ND2	1.83	1.11
1:H:504:ASP:OD1	1:H:608:ASN:ND2	1.83	1.11
1:I:462:TYR:CE2	1:I:494:PHE:CE1	2.39	1.11
1:J:462:TYR:CE2	1:J:494:PHE:CE1	2.39	1.11
1:K:504:ASP:OD1	1:K:608:ASN:ND2	1.83	1.11
1:M:378:SER:H	1:M:422:ILE:CD1	1.63	1.11
1:P:378:SER:H	1:P:422:ILE:CD1	1.63	1.11
1:I:504:ASP:OD1	1:I:608:ASN:ND2	1.83	1.11
1:L:633:THR:CG2	1:L:642:THR:O	1.96	1.11
1:I:276:SER:HB3	1:J:121:ALA:HB1	1.21	1.11
1:L:504:ASP:OD1	1:L:608:ASN:ND2	1.83	1.11
1:B:504:ASP:OD1	1:B:608:ASN:ND2	1.83	1.11
1:C:378:SER:H	1:C:422:ILE:CD1	1.63	1.11
1:F:378:SER:H	1:F:422:ILE:CD1	1.63	1.11
1:I:314:ARG:O	1:I:315:GLU:HG3	1.51	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:622:LEU:HB2	1:L:634:ASP:HB2	1.31	1.11
1:M:504:ASP:OD1	1:M:608:ASN:ND2	1.83	1.11
1:E:314:ARG:O	1:E:315:GLU:HG3	1.51	1.10
1:F:314:ARG:O	1:F:315:GLU:HG3	1.51	1.10
1:H:314:ARG:O	1:H:315:GLU:HG3	1.51	1.10
1:I:378:SER:H	1:I:422:ILE:CD1	1.63	1.10
1:J:314:ARG:O	1:J:315:GLU:HG3	1.51	1.10
1:K:378:SER:H	1:K:422:ILE:CD1	1.63	1.10
1:L:378:SER:H	1:L:422:ILE:CD1	1.63	1.10
1:L:462:TYR:CE2	1:L:494:PHE:CE1	2.39	1.10
1:C:504:ASP:OD1	1:C:608:ASN:ND2	1.83	1.10
1:D:378:SER:H	1:D:422:ILE:CD1	1.63	1.10
1:E:378:SER:H	1:E:422:ILE:CD1	1.63	1.10
1:J:378:SER:H	1:J:422:ILE:CD1	1.63	1.10
1:O:314:ARG:O	1:O:315:GLU:HG3	1.51	1.10
1:C:462:TYR:CE2	1:C:494:PHE:CE1	2.39	1.10
1:M:622:LEU:HB2	1:M:634:ASP:HB2	1.31	1.10
1:C:622:LEU:HB2	1:C:634:ASP:HB2	1.31	1.10
1:K:462:TYR:CE2	1:K:494:PHE:CE1	2.39	1.10
1:K:622:LEU:HB2	1:K:634:ASP:HB2	1.31	1.10
1:P:504:ASP:OD1	1:P:608:ASN:ND2	1.83	1.10
1:D:462:TYR:CE2	1:D:494:PHE:CE1	2.39	1.10
1:D:622:LEU:HB2	1:D:634:ASP:HB2	1.31	1.10
1:G:462:TYR:CE2	1:G:494:PHE:CE1	2.39	1.10
1:A:462:TYR:CE2	1:A:494:PHE:CE1	2.39	1.09
1:B:462:TYR:CE2	1:B:494:PHE:CE1	2.38	1.09
1:B:622:LEU:HB2	1:B:634:ASP:HB2	1.31	1.09
1:F:14:ASP:OD2	1:G:142:ARG:NH1	1.83	1.09
1:G:314:ARG:O	1:G:315:GLU:HG3	1.51	1.09
1:G:504:ASP:OD1	1:G:608:ASN:ND2	1.83	1.09
1:H:462:TYR:CE2	1:H:494:PHE:CE1	2.39	1.09
1:K:314:ARG:O	1:K:315:GLU:HG3	1.51	1.09
1:M:462:TYR:CE2	1:M:494:PHE:CE1	2.39	1.09
1:N:462:TYR:CE2	1:N:494:PHE:CE1	2.38	1.09
1:O:462:TYR:CE2	1:O:494:PHE:CE1	2.39	1.09
1:P:314:ARG:O	1:P:315:GLU:HG3	1.51	1.09
1:P:462:TYR:CE2	1:P:494:PHE:CE1	2.38	1.09
1:C:462:TYR:CZ	1:C:494:PHE:CE1	2.41	1.09
1:D:314:ARG:O	1:D:315:GLU:HG3	1.51	1.09
1:O:462:TYR:CZ	1:O:494:PHE:CE1	2.41	1.09
1:D:462:TYR:CZ	1:D:494:PHE:CE1	2.41	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:TYR:CZ	1:G:494:PHE:CE1	2.41	1.09
1:H:462:TYR:CZ	1:H:494:PHE:CE1	2.41	1.09
1:L:462:TYR:CZ	1:L:494:PHE:CE1	2.41	1.09
1:P:462:TYR:CZ	1:P:494:PHE:CE1	2.41	1.09
1:K:462:TYR:CZ	1:K:494:PHE:CE1	2.41	1.09
1:O:378:SER:N	1:O:422:ILE:CD1	2.16	1.09
1:A:314:ARG:O	1:A:315:GLU:HG3	1.51	1.09
1:B:378:SER:N	1:B:422:ILE:CD1	2.16	1.09
1:H:378:SER:N	1:H:422:ILE:CD1	2.16	1.09
1:M:378:SER:N	1:M:422:ILE:CD1	2.16	1.09
1:E:121:ALA:HB1	1:F:276:SER:HB3	1.09	1.08
1:I:121:ALA:HB1	1:P:276:SER:HB3	1.27	1.08
1:N:314:ARG:O	1:N:315:GLU:HG3	1.51	1.08
1:B:462:TYR:CZ	1:B:494:PHE:CE1	2.41	1.08
1:N:462:TYR:CZ	1:N:494:PHE:CE1	2.41	1.08
1:A:378:SER:N	1:A:422:ILE:CD1	2.16	1.08
1:A:462:TYR:CZ	1:A:494:PHE:CE1	2.41	1.08
1:F:462:TYR:CZ	1:F:494:PHE:CE1	2.41	1.08
1:G:313:PRO:HB3	1:G:338:TRP:CZ2	1.88	1.08
1:M:462:TYR:CZ	1:M:494:PHE:CE1	2.41	1.08
1:P:313:PRO:HB3	1:P:338:TRP:CZ2	1.88	1.08
1:C:378:SER:N	1:C:422:ILE:CD1	2.16	1.08
1:J:276:SER:HB3	1:K:121:ALA:HB1	1.14	1.08
1:N:378:SER:N	1:N:422:ILE:CD1	2.16	1.08
1:A:313:PRO:HB3	1:A:338:TRP:CZ2	1.88	1.08
1:E:378:SER:N	1:E:422:ILE:CD1	2.16	1.08
1:J:378:SER:N	1:J:422:ILE:CD1	2.16	1.08
1:J:462:TYR:CZ	1:J:494:PHE:CE1	2.41	1.08
1:L:875:LEU:HD13	1:L:911:PHE:CE2	1.64	1.08
1:N:313:PRO:HB3	1:N:338:TRP:CZ2	1.88	1.08
1:A:121:ALA:HB1	1:B:276:SER:HB3	1.34	1.07
1:E:462:TYR:CZ	1:E:494:PHE:CE1	2.41	1.07
1:G:378:SER:N	1:G:422:ILE:CD1	2.16	1.07
1:I:462:TYR:CZ	1:I:494:PHE:CE1	2.41	1.07
1:L:378:SER:N	1:L:422:ILE:CD1	2.16	1.07
1:F:378:SER:N	1:F:422:ILE:CD1	2.16	1.07
1:L:314:ARG:O	1:L:315:GLU:HG3	1.51	1.07
1:P:378:SER:N	1:P:422:ILE:CD1	2.16	1.07
1:I:378:SER:N	1:I:422:ILE:CD1	2.16	1.07
1:B:314:ARG:O	1:B:315:GLU:HG3	1.51	1.07
1:H:313:PRO:HB3	1:H:338:TRP:CZ2	1.88	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:313:PRO:HB3	1:O:338:TRP:CZ2	1.88	1.07
1:D:378:SER:N	1:D:422:ILE:CD1	2.16	1.07
1:K:378:SER:N	1:K:422:ILE:CD1	2.16	1.07
1:M:314:ARG:O	1:M:315:GLU:HG3	1.51	1.07
1:C:314:ARG:O	1:C:315:GLU:HG3	1.51	1.06
1:I:373:SER:CB	1:I:433:LEU:HD12	1.85	1.06
1:F:373:SER:CB	1:F:433:LEU:HD12	1.85	1.06
1:K:313:PRO:HB3	1:K:338:TRP:CZ2	1.88	1.06
1:B:373:SER:CB	1:B:433:LEU:HD12	1.85	1.06
1:C:313:PRO:HA	1:C:338:TRP:CH2	1.90	1.06
1:D:313:PRO:HB3	1:D:338:TRP:CZ2	1.88	1.06
1:E:875:LEU:HD13	1:E:911:PHE:CE2	1.64	1.06
1:F:313:PRO:HB3	1:F:338:TRP:CZ2	1.88	1.06
1:G:373:SER:CB	1:G:433:LEU:HD12	1.85	1.06
1:H:313:PRO:HA	1:H:338:TRP:CH2	1.90	1.06
1:J:313:PRO:HB3	1:J:338:TRP:CZ2	1.88	1.06
1:M:373:SER:CB	1:M:433:LEU:HD12	1.85	1.06
1:O:313:PRO:HA	1:O:338:TRP:CH2	1.90	1.06
1:A:373:SER:CB	1:A:433:LEU:HD12	1.85	1.06
1:C:313:PRO:HB3	1:C:338:TRP:CZ2	1.88	1.06
1:G:313:PRO:HA	1:G:338:TRP:CH2	1.90	1.06
1:L:313:PRO:HA	1:L:338:TRP:CH2	1.90	1.06
1:P:313:PRO:HA	1:P:338:TRP:CH2	1.90	1.06
1:P:373:SER:CB	1:P:433:LEU:HD12	1.85	1.06
1:C:373:SER:CB	1:C:433:LEU:HD12	1.85	1.05
1:E:313:PRO:HB3	1:E:338:TRP:CZ2	1.88	1.05
1:L:313:PRO:HB3	1:L:338:TRP:CZ2	1.88	1.05
1:N:373:SER:CB	1:N:433:LEU:HD12	1.85	1.05
1:A:313:PRO:HA	1:A:338:TRP:CH2	1.90	1.05
1:E:373:SER:CB	1:E:433:LEU:HD12	1.85	1.05
1:I:313:PRO:HA	1:I:338:TRP:CH2	1.90	1.05
1:I:313:PRO:HB3	1:I:338:TRP:CZ2	1.88	1.05
1:J:373:SER:CB	1:J:433:LEU:HD12	1.85	1.05
1:J:875:LEU:HD13	1:J:911:PHE:CE2	1.64	1.05
1:N:313:PRO:HA	1:N:338:TRP:CH2	1.90	1.05
1:D:313:PRO:HA	1:D:338:TRP:CH2	1.90	1.05
1:D:373:SER:CB	1:D:433:LEU:HD12	1.85	1.05
1:F:313:PRO:HA	1:F:338:TRP:CH2	1.90	1.05
1:K:373:SER:CB	1:K:433:LEU:HD12	1.85	1.05
1:L:373:SER:CB	1:L:433:LEU:HD12	1.85	1.05
1:J:313:PRO:HA	1:J:338:TRP:CH2	1.90	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:313:PRO:HA	1:K:338:TRP:CH2	1.91	1.05
1:E:313:PRO:HA	1:E:338:TRP:CH2	1.90	1.05
1:F:916:LYS:HE2	1:G:1177:TYR:HE2	1.22	1.05
1:H:373:SER:CB	1:H:433:LEU:HD12	1.85	1.05
1:O:373:SER:CB	1:O:433:LEU:HD12	1.85	1.05
1:G:378:SER:N	1:G:422:ILE:HD12	1.73	1.04
1:P:378:SER:N	1:P:422:ILE:HD12	1.73	1.04
1:B:313:PRO:HA	1:B:338:TRP:CH2	1.90	1.04
1:C:378:SER:N	1:C:422:ILE:HD12	1.73	1.04
1:N:462:TYR:CZ	1:N:494:PHE:HE1	1.76	1.04
1:K:378:SER:N	1:K:422:ILE:HD12	1.73	1.04
1:L:378:SER:N	1:L:422:ILE:HD12	1.73	1.04
1:M:313:PRO:HA	1:M:338:TRP:CH2	1.91	1.04
1:D:378:SER:N	1:D:422:ILE:HD12	1.73	1.04
1:E:378:SER:N	1:E:422:ILE:HD12	1.73	1.04
1:I:378:SER:N	1:I:422:ILE:HD12	1.73	1.04
1:A:378:SER:N	1:A:422:ILE:HD12	1.73	1.03
1:B:313:PRO:HB3	1:B:338:TRP:CZ2	1.88	1.03
1:D:209:SER:OG	1:E:212:ASP:OD2	1.76	1.03
1:J:378:SER:N	1:J:422:ILE:HD12	1.73	1.03
1:M:313:PRO:HB3	1:M:338:TRP:CZ2	1.88	1.03
1:C:508:TRP:HA	1:C:606:GLY:HA3	1.03	1.03
1:F:509:ASN:HD21	1:F:632:LEU:HD13	1.23	1.03
1:G:509:ASN:HD21	1:G:632:LEU:HD13	1.23	1.03
1:N:378:SER:N	1:N:422:ILE:HD12	1.73	1.03
1:O:509:ASN:HD21	1:O:632:LEU:HD13	1.23	1.03
1:P:509:ASN:HD21	1:P:632:LEU:HD13	1.23	1.03
1:B:508:TRP:HA	1:B:606:GLY:HA3	1.03	1.03
1:F:378:SER:N	1:F:422:ILE:HD12	1.73	1.03
1:H:508:TRP:HA	1:H:606:GLY:HA3	1.03	1.03
1:H:509:ASN:HD21	1:H:632:LEU:HD13	1.23	1.03
1:O:508:TRP:HA	1:O:606:GLY:HA3	1.03	1.03
1:L:508:TRP:HA	1:L:606:GLY:HA3	1.03	1.03
1:M:508:TRP:HA	1:M:606:GLY:HA3	1.03	1.03
1:N:508:TRP:HA	1:N:606:GLY:HA3	1.03	1.03
1:A:508:TRP:HA	1:A:606:GLY:HA3	1.03	1.03
1:A:875:LEU:HD13	1:A:911:PHE:CE2	1.64	1.03
1:F:508:TRP:HA	1:F:606:GLY:HA3	1.04	1.03
1:I:508:TRP:HA	1:I:606:GLY:HA3	1.03	1.03
1:I:509:ASN:HD21	1:I:632:LEU:HD13	1.23	1.03
1:P:508:TRP:HA	1:P:606:GLY:HA3	1.03	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:508:TRP:HA	1:D:606:GLY:HA3	1.03	1.02
1:E:509:ASN:HD21	1:E:632:LEU:HD13	1.23	1.02
1:G:508:TRP:HA	1:G:606:GLY:HA3	1.03	1.02
1:N:509:ASN:HD21	1:N:632:LEU:HD13	1.23	1.02
1:A:509:ASN:HD21	1:A:632:LEU:HD13	1.23	1.02
1:E:557:LYS:HB3	1:E:1226:TYR:CZ	1.95	1.02
1:J:557:LYS:HB3	1:J:1226:TYR:CZ	1.95	1.02
1:K:508:TRP:HA	1:K:606:GLY:HA3	1.03	1.02
1:B:557:LYS:HB3	1:B:1226:TYR:CZ	1.95	1.02
1:C:557:LYS:HB3	1:C:1226:TYR:CZ	1.95	1.02
1:E:508:TRP:HA	1:E:606:GLY:HA3	1.03	1.02
1:J:508:TRP:HA	1:J:606:GLY:HA3	1.03	1.02
1:J:509:ASN:HD21	1:J:632:LEU:HD13	1.23	1.02
1:L:557:LYS:HB3	1:L:1226:TYR:CZ	1.95	1.02
1:M:557:LYS:HB3	1:M:1226:TYR:CZ	1.95	1.02
1:N:875:LEU:HD13	1:N:911:PHE:CE2	1.64	1.02
1:C:121:ALA:HB1	1:D:276:SER:HB3	1.39	1.02
1:F:121:ALA:HB1	1:G:276:SER:HB3	1.41	1.02
1:E:121:ALA:HB1	1:F:276:SER:CB	1.90	1.01
1:G:209:SER:OG	1:H:212:ASP:OD2	1.77	1.01
1:I:557:LYS:HB3	1:I:1226:TYR:CZ	1.95	1.01
1:L:509:ASN:HD21	1:L:632:LEU:HD13	1.23	1.01
1:A:389:ILE:CD1	1:A:446:HIS:NE2	2.23	1.01
1:F:557:LYS:HB3	1:F:1226:TYR:CZ	1.95	1.01
1:N:389:ILE:CD1	1:N:446:HIS:NE2	2.23	1.01
1:C:389:ILE:CD1	1:C:446:HIS:NE2	2.23	1.01
1:D:389:ILE:CD1	1:D:446:HIS:NE2	2.24	1.01
1:G:389:ILE:CD1	1:G:446:HIS:NE2	2.23	1.01
1:K:389:ILE:CD1	1:K:446:HIS:NE2	2.24	1.01
1:L:389:ILE:CD1	1:L:446:HIS:NE2	2.23	1.01
1:P:389:ILE:CD1	1:P:446:HIS:NE2	2.23	1.01
1:B:378:SER:N	1:B:422:ILE:HD12	1.73	1.01
1:D:509:ASN:HD21	1:D:632:LEU:HD13	1.23	1.01
1:E:389:ILE:CD1	1:E:446:HIS:NE2	2.24	1.01
1:H:389:ILE:CD1	1:H:446:HIS:NE2	2.24	1.01
1:H:557:LYS:HB3	1:H:1226:TYR:CZ	1.95	1.01
1:J:389:ILE:CD1	1:J:446:HIS:NE2	2.23	1.01
1:K:557:LYS:HB3	1:K:1226:TYR:CZ	1.95	1.01
1:M:378:SER:N	1:M:422:ILE:HD12	1.73	1.01
1:M:509:ASN:HD21	1:M:632:LEU:HD13	1.23	1.01
1:O:557:LYS:HB3	1:O:1226:TYR:CZ	1.95	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:509:ASN:HD21	1:B:632:LEU:HD13	1.23	1.01
1:D:557:LYS:HB3	1:D:1226:TYR:CZ	1.95	1.01
1:O:389:ILE:CD1	1:O:446:HIS:NE2	2.23	1.01
1:G:875:LEU:HD13	1:G:911:PHE:CE2	1.64	1.00
1:K:509:ASN:HD21	1:K:632:LEU:HD13	1.23	1.00
1:P:557:LYS:HB3	1:P:1226:TYR:CZ	1.95	1.00
1:F:875:LEU:HD13	1:F:911:PHE:CE2	1.64	1.00
1:G:557:LYS:HB3	1:G:1226:TYR:CZ	1.95	1.00
1:I:389:ILE:CD1	1:I:446:HIS:NE2	2.24	1.00
1:A:557:LYS:HB3	1:A:1226:TYR:CZ	1.95	1.00
1:F:389:ILE:CD1	1:F:446:HIS:NE2	2.23	1.00
1:C:509:ASN:HD21	1:C:632:LEU:HD13	1.23	1.00
1:N:557:LYS:HB3	1:N:1226:TYR:CZ	1.95	1.00
1:O:378:SER:N	1:O:422:ILE:HD12	1.73	1.00
1:P:875:LEU:HD13	1:P:911:PHE:CE2	1.64	1.00
1:H:378:SER:N	1:H:422:ILE:HD12	1.73	1.00
1:H:875:LEU:HD13	1:H:911:PHE:CE2	1.64	1.00
1:M:875:LEU:CD1	1:M:911:PHE:CD2	2.23	1.00
1:I:212:ASP:OD2	1:J:209:SER:OG	1.80	1.00
1:I:875:LEU:CD1	1:I:911:PHE:CD2	2.24	1.00
1:F:518:LEU:CD2	1:F:643:TYR:CD1	2.27	0.99
1:I:875:LEU:HD13	1:I:911:PHE:CE2	1.64	0.99
1:B:389:ILE:CD1	1:B:446:HIS:NE2	2.23	0.99
1:D:875:LEU:HD13	1:D:911:PHE:CE2	1.64	0.99
1:J:462:TYR:CZ	1:J:494:PHE:HE1	1.76	0.99
1:M:389:ILE:CD1	1:M:446:HIS:NE2	2.23	0.99
1:O:875:LEU:HD13	1:O:911:PHE:CE2	1.64	0.99
1:E:462:TYR:CZ	1:E:494:PHE:HE1	1.76	0.99
1:I:462:TYR:CZ	1:I:494:PHE:HE1	1.76	0.99
1:D:462:TYR:CZ	1:D:494:PHE:HE1	1.76	0.99
1:K:875:LEU:HD13	1:K:911:PHE:CE2	1.64	0.99
1:C:462:TYR:CZ	1:C:494:PHE:HE1	1.76	0.99
1:B:121:ALA:HB1	1:C:276:SER:HB3	1.02	0.99
1:H:251:APK:C	1:H:253:TRP:N	2.26	0.99
1:M:212:ASP:OD2	1:N:209:SER:OG	1.80	0.99
1:O:251:APK:C	1:O:253:TRP:N	2.26	0.99
1:D:313:PRO:HG3	1:D:338:TRP:HE1	1.28	0.99
1:K:462:TYR:CZ	1:K:494:PHE:HE1	1.76	0.99
1:N:212:ASP:OD2	1:O:209:SER:OG	1.79	0.99
1:N:251:APK:C	1:N:253:TRP:N	2.26	0.99
1:B:462:TYR:CZ	1:B:494:PHE:HE1	1.76	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:251:APK:C	1:G:253:TRP:N	2.26	0.98
1:K:313:PRO:HG3	1:K:338:TRP:HE1	1.28	0.98
1:L:462:TYR:CZ	1:L:494:PHE:HE1	1.76	0.98
1:P:251:APK:C	1:P:253:TRP:N	2.26	0.98
1:A:251:APK:C	1:A:253:TRP:N	2.26	0.98
1:A:298:LYS:HG3	1:A:312:LEU:HD12	1.44	0.98
1:F:313:PRO:HG3	1:F:338:TRP:NE1	1.79	0.98
1:F:462:TYR:CZ	1:F:494:PHE:HE1	1.76	0.98
1:I:518:LEU:CD2	1:I:643:TYR:CD1	2.27	0.98
1:I:313:PRO:HG3	1:I:338:TRP:NE1	1.79	0.98
1:N:298:LYS:HG3	1:N:312:LEU:HD12	1.44	0.98
1:B:313:PRO:HG3	1:B:338:TRP:NE1	1.79	0.98
1:H:298:LYS:HG3	1:H:312:LEU:HD12	1.44	0.98
1:L:313:PRO:HG3	1:L:338:TRP:NE1	1.79	0.98
1:M:313:PRO:HG3	1:M:338:TRP:NE1	1.79	0.98
1:M:462:TYR:CZ	1:M:494:PHE:HE1	1.76	0.98
1:C:313:PRO:HG3	1:C:338:TRP:NE1	1.79	0.98
1:I:301:LEU:HD21	1:I:313:PRO:HG2	1.45	0.98
1:J:251:APK:C	1:J:253:TRP:N	2.26	0.98
1:O:298:LYS:HG3	1:O:312:LEU:HD12	1.44	0.98
1:E:251:APK:C	1:E:253:TRP:N	2.26	0.98
1:M:251:APK:C	1:M:253:TRP:N	2.26	0.98
1:A:462:TYR:CZ	1:A:494:PHE:HE1	1.76	0.98
1:F:301:LEU:HD21	1:F:313:PRO:HG2	1.45	0.98
1:J:313:PRO:HG3	1:J:338:TRP:NE1	1.79	0.98
1:A:508:TRP:CE3	1:A:927:GLN:O	2.17	0.98
1:B:251:APK:C	1:B:253:TRP:N	2.26	0.98
1:D:251:APK:C	1:D:253:TRP:N	2.26	0.98
1:E:313:PRO:HG3	1:E:338:TRP:NE1	1.79	0.98
1:E:509:ASN:ND2	1:E:632:LEU:HD13	1.79	0.98
1:F:509:ASN:ND2	1:F:632:LEU:HD13	1.79	0.98
1:K:298:LYS:HG3	1:K:312:LEU:HD12	1.44	0.98
1:N:508:TRP:CE3	1:N:927:GLN:O	2.17	0.98
1:A:313:PRO:HG3	1:A:338:TRP:NE1	1.79	0.98
1:B:508:TRP:CE3	1:B:927:GLN:O	2.17	0.98
1:E:508:TRP:CE3	1:E:927:GLN:O	2.17	0.98
1:K:251:APK:C	1:K:253:TRP:N	2.26	0.98
1:K:317:LEU:O	1:K:318:THR:OG1	1.82	0.98
1:M:508:TRP:CE3	1:M:927:GLN:O	2.17	0.98
1:D:298:LYS:HG3	1:D:312:LEU:HD12	1.44	0.97
1:D:317:LEU:O	1:D:318:THR:OG1	1.82	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:462:TYR:CZ	1:G:494:PHE:HE1	1.76	0.97
1:J:317:LEU:O	1:J:318:THR:OG1	1.82	0.97
1:J:508:TRP:CE3	1:J:927:GLN:O	2.17	0.97
1:J:509:ASN:ND2	1:J:632:LEU:HD13	1.79	0.97
1:K:508:TRP:CE3	1:K:927:GLN:O	2.17	0.97
1:N:313:PRO:HG3	1:N:338:TRP:NE1	1.79	0.97
1:P:462:TYR:CZ	1:P:494:PHE:HE1	1.76	0.97
1:B:298:LYS:HG3	1:B:312:LEU:HD12	1.44	0.97
1:D:508:TRP:CE3	1:D:927:GLN:O	2.17	0.97
1:D:509:ASN:ND2	1:D:632:LEU:HD13	1.79	0.97
1:H:462:TYR:CZ	1:H:494:PHE:HE1	1.76	0.97
1:I:509:ASN:ND2	1:I:632:LEU:HD13	1.79	0.97
1:P:509:ASN:ND2	1:P:632:LEU:HD13	1.79	0.97
1:E:317:LEU:O	1:E:318:THR:OG1	1.82	0.97
1:G:509:ASN:ND2	1:G:632:LEU:HD13	1.79	0.97
1:H:508:TRP:CE3	1:H:927:GLN:O	2.17	0.97
1:M:298:LYS:HG3	1:M:312:LEU:HD12	1.44	0.97
1:E:637:LEU:O	1:E:638:GLU:HB2	1.65	0.97
1:G:792:ASP:OD2	1:G:799:ASN:ND2	1.98	0.97
1:K:313:PRO:HG3	1:K:338:TRP:NE1	1.79	0.97
1:K:509:ASN:ND2	1:K:632:LEU:HD13	1.79	0.97
1:O:508:TRP:CE3	1:O:927:GLN:O	2.17	0.97
1:P:792:ASP:OD2	1:P:799:ASN:ND2	1.98	0.97
1:D:313:PRO:HG3	1:D:338:TRP:NE1	1.79	0.97
1:G:301:LEU:HD21	1:G:313:PRO:HG2	1.45	0.97
1:I:508:TRP:CE3	1:I:927:GLN:O	2.17	0.97
1:J:301:LEU:HD21	1:J:313:PRO:HG2	1.45	0.97
1:J:637:LEU:O	1:J:638:GLU:HB2	1.65	0.97
1:B:792:ASP:OD2	1:B:799:ASN:ND2	1.98	0.97
1:L:251:APK:C	1:L:253:TRP:N	2.26	0.97
1:M:792:ASP:OD2	1:M:799:ASN:ND2	1.98	0.97
1:O:462:TYR:CZ	1:O:494:PHE:HE1	1.76	0.97
1:O:509:ASN:ND2	1:O:632:LEU:HD13	1.79	0.97
1:P:301:LEU:HD21	1:P:313:PRO:HG2	1.45	0.97
1:P:373:SER:HB3	1:P:433:LEU:HD12	1.46	0.97
1:A:875:LEU:CD1	1:A:911:PHE:CD2	2.23	0.97
1:E:301:LEU:HD21	1:E:313:PRO:HG2	1.45	0.97
1:F:508:TRP:CE3	1:F:927:GLN:O	2.17	0.97
1:G:298:LYS:HG3	1:G:312:LEU:HD12	1.44	0.97
1:G:373:SER:HB3	1:G:433:LEU:HD12	1.46	0.97
1:H:313:PRO:HG3	1:H:338:TRP:NE1	1.79	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:298:LYS:HG3	1:P:312:LEU:HD12	1.44	0.97
1:F:373:SER:HB3	1:F:433:LEU:HD12	1.46	0.97
1:F:637:LEU:O	1:F:638:GLU:HB2	1.65	0.97
1:G:313:PRO:HG3	1:G:338:TRP:NE1	1.79	0.97
1:H:509:ASN:ND2	1:H:632:LEU:HD13	1.79	0.97
1:I:373:SER:HB3	1:I:433:LEU:HD12	1.46	0.97
1:L:508:TRP:CE3	1:L:927:GLN:O	2.17	0.97
1:P:313:PRO:HG3	1:P:338:TRP:NE1	1.79	0.97
1:C:509:ASN:ND2	1:C:632:LEU:HD13	1.79	0.97
1:I:251:APK:C	1:I:253:TRP:N	2.26	0.97
1:P:313:PRO:HG3	1:P:338:TRP:HE1	1.28	0.97
1:C:251:APK:C	1:C:253:TRP:N	2.26	0.97
1:G:313:PRO:HG3	1:G:338:TRP:HE1	1.29	0.97
1:I:298:LYS:HG3	1:I:312:LEU:HD12	1.44	0.97
1:M:313:PRO:HG3	1:M:338:TRP:HE1	1.28	0.97
1:O:313:PRO:HG3	1:O:338:TRP:NE1	1.79	0.97
1:O:373:SER:HB3	1:O:433:LEU:HD12	1.46	0.97
1:A:317:LEU:O	1:A:318:THR:OG1	1.82	0.96
1:B:313:PRO:HG3	1:B:338:TRP:HE1	1.28	0.96
1:C:508:TRP:CE3	1:C:927:GLN:O	2.17	0.96
1:D:792:ASP:OD2	1:D:799:ASN:ND2	1.98	0.96
1:L:509:ASN:ND2	1:L:632:LEU:HD13	1.79	0.96
1:N:317:LEU:O	1:N:318:THR:OG1	1.82	0.96
1:N:792:ASP:OD2	1:N:799:ASN:ND2	1.98	0.96
1:A:451:LYS:HD3	1:A:486:LEU:HD21	1.47	0.96
1:A:792:ASP:OD2	1:A:799:ASN:ND2	1.98	0.96
1:B:509:ASN:ND2	1:B:632:LEU:HD13	1.79	0.96
1:F:251:APK:C	1:F:253:TRP:N	2.26	0.96
1:K:792:ASP:OD2	1:K:799:ASN:ND2	1.98	0.96
1:L:313:PRO:HG3	1:L:338:TRP:HE1	1.28	0.96
1:N:451:LYS:HD3	1:N:486:LEU:HD21	1.47	0.96
1:A:313:PRO:HG3	1:A:338:TRP:HE1	1.28	0.96
1:E:313:PRO:HG3	1:E:338:TRP:HE1	1.28	0.96
1:E:373:SER:HB3	1:E:433:LEU:HD12	1.46	0.96
1:H:317:LEU:O	1:H:318:THR:OG1	1.82	0.96
1:I:637:LEU:O	1:I:638:GLU:HB2	1.65	0.96
1:J:313:PRO:HG3	1:J:338:TRP:HE1	1.28	0.96
1:N:509:ASN:ND2	1:N:632:LEU:HD13	1.79	0.96
1:O:317:LEU:O	1:O:318:THR:OG1	1.82	0.96
1:P:502:ARG:HB3	1:P:516:ASN:OD1	1.66	0.96
1:G:502:ARG:HB3	1:G:516:ASN:OD1	1.66	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:518:LEU:CD2	1:L:643:TYR:CD1	2.27	0.96
1:A:509:ASN:ND2	1:A:632:LEU:HD13	1.79	0.96
1:B:301:LEU:HD21	1:B:313:PRO:HG2	1.45	0.96
1:D:508:TRP:O	1:D:606:GLY:N	1.98	0.96
1:E:792:ASP:OD2	1:E:799:ASN:ND2	1.98	0.96
1:F:298:LYS:HG3	1:F:312:LEU:HD12	1.44	0.96
1:H:373:SER:HB3	1:H:433:LEU:HD12	1.46	0.96
1:J:373:SER:HB3	1:J:433:LEU:HD12	1.46	0.96
1:J:792:ASP:OD2	1:J:799:ASN:ND2	1.98	0.96
1:K:508:TRP:O	1:K:606:GLY:N	1.98	0.96
1:M:509:ASN:ND2	1:M:632:LEU:HD13	1.79	0.96
1:N:313:PRO:HG3	1:N:338:TRP:HE1	1.28	0.96
1:P:508:TRP:CE3	1:P:927:GLN:O	2.17	0.96
1:L:276:SER:CB	1:M:121:ALA:HB1	1.95	0.96
1:N:875:LEU:CD1	1:N:911:PHE:CD2	2.24	0.96
1:D:373:SER:HB3	1:D:433:LEU:HD12	1.46	0.96
1:G:508:TRP:CE3	1:G:927:GLN:O	2.17	0.96
1:K:637:LEU:O	1:K:638:GLU:HB2	1.65	0.96
1:M:301:LEU:HD21	1:M:313:PRO:HG2	1.45	0.96
1:A:502:ARG:HB3	1:A:516:ASN:OD1	1.66	0.96
1:C:301:LEU:HD21	1:C:313:PRO:HG2	1.45	0.96
1:C:502:ARG:HB3	1:C:516:ASN:OD1	1.66	0.96
1:D:637:LEU:O	1:D:638:GLU:HB2	1.65	0.96
1:H:792:ASP:OD2	1:H:799:ASN:ND2	1.98	0.96
1:L:317:LEU:O	1:L:318:THR:OG1	1.82	0.96
1:L:792:ASP:OD2	1:L:799:ASN:ND2	1.98	0.96
1:N:373:SER:HB3	1:N:433:LEU:HD12	1.46	0.96
1:C:298:LYS:HG3	1:C:312:LEU:HD12	1.44	0.96
1:C:508:TRP:O	1:C:606:GLY:N	1.98	0.96
1:H:451:LYS:HD3	1:H:486:LEU:HD21	1.47	0.96
1:H:502:ARG:HB3	1:H:516:ASN:OD1	1.66	0.96
1:O:502:ARG:HB3	1:O:516:ASN:OD1	1.66	0.96
1:A:301:LEU:HD21	1:A:313:PRO:HG2	1.45	0.96
1:B:875:LEU:HD13	1:B:911:PHE:CE2	1.64	0.96
1:I:317:LEU:O	1:I:318:THR:OG1	1.82	0.96
1:M:451:LYS:HD3	1:M:486:LEU:HD21	1.47	0.96
1:N:502:ARG:HB3	1:N:516:ASN:OD1	1.66	0.96
1:N:505:SER:HG	1:N:513:SER:HG	1.02	0.96
1:B:451:LYS:HD3	1:B:486:LEU:HD21	1.47	0.95
1:C:313:PRO:HG3	1:C:338:TRP:HE1	1.28	0.95
1:C:317:LEU:O	1:C:318:THR:OG1	1.82	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:451:LYS:HD3	1:G:486:LEU:HD21	1.47	0.95
1:G:508:TRP:O	1:G:606:GLY:N	1.99	0.95
1:H:313:PRO:HG3	1:H:338:TRP:HE1	1.28	0.95
1:O:451:LYS:HD3	1:O:486:LEU:HD21	1.47	0.95
1:O:792:ASP:OD2	1:O:799:ASN:ND2	1.98	0.95
1:P:451:LYS:HD3	1:P:486:LEU:HD21	1.47	0.95
1:P:508:TRP:O	1:P:606:GLY:N	1.98	0.95
1:A:373:SER:HB3	1:A:433:LEU:HD12	1.46	0.95
1:D:502:ARG:HB3	1:D:516:ASN:OD1	1.66	0.95
1:F:792:ASP:OD2	1:F:799:ASN:ND2	1.98	0.95
1:K:502:ARG:HB3	1:K:516:ASN:OD1	1.66	0.95
1:L:378:SER:H	1:L:422:ILE:HD12	1.27	0.95
1:L:508:TRP:O	1:L:606:GLY:N	1.98	0.95
1:O:314:ARG:O	1:O:315:GLU:CG	2.14	0.95
1:G:317:LEU:O	1:G:318:THR:OG1	1.82	0.95
1:H:314:ARG:O	1:H:315:GLU:CG	2.15	0.95
1:K:373:SER:HB3	1:K:433:LEU:HD12	1.46	0.95
1:L:314:ARG:O	1:L:315:GLU:CG	2.14	0.95
1:N:301:LEU:HD21	1:N:313:PRO:HG2	1.45	0.95
1:B:373:SER:HB3	1:B:433:LEU:HD12	1.46	0.95
1:B:378:SER:H	1:B:422:ILE:HD12	1.27	0.95
1:C:378:SER:H	1:C:422:ILE:HD12	1.27	0.95
1:C:792:ASP:OD2	1:C:799:ASN:ND2	1.98	0.95
1:J:508:TRP:O	1:J:606:GLY:N	1.98	0.95
1:M:378:SER:H	1:M:422:ILE:HD12	1.27	0.95
1:P:317:LEU:O	1:P:318:THR:OG1	1.82	0.95
1:C:875:LEU:HD13	1:C:911:PHE:CE2	1.64	0.95
1:E:508:TRP:O	1:E:606:GLY:N	1.98	0.95
1:M:373:SER:HB3	1:M:433:LEU:HD12	1.46	0.95
1:O:508:TRP:O	1:O:606:GLY:N	1.99	0.95
1:C:314:ARG:O	1:C:315:GLU:CG	2.15	0.95
1:E:314:ARG:O	1:E:315:GLU:CG	2.14	0.95
1:H:508:TRP:O	1:H:606:GLY:N	1.99	0.95
1:I:314:ARG:O	1:I:315:GLU:CG	2.15	0.95
1:L:298:LYS:HG3	1:L:312:LEU:HD12	1.44	0.95
1:L:502:ARG:HB3	1:L:516:ASN:OD1	1.66	0.95
1:M:875:LEU:HD13	1:M:911:PHE:CE2	1.64	0.95
1:O:313:PRO:HG3	1:O:338:TRP:HE1	1.28	0.95
1:O:637:LEU:O	1:O:638:GLU:HB2	1.65	0.95
1:B:314:ARG:O	1:B:315:GLU:CG	2.14	0.95
1:D:518:LEU:CD2	1:D:643:TYR:CD1	2.27	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:314:ARG:O	1:F:315:GLU:CG	2.15	0.95
1:F:502:ARG:HB3	1:F:516:ASN:OD1	1.66	0.95
1:F:508:TRP:O	1:F:606:GLY:N	1.98	0.95
1:I:792:ASP:OD2	1:I:799:ASN:ND2	1.98	0.95
1:M:314:ARG:O	1:M:315:GLU:CG	2.15	0.95
1:F:317:LEU:O	1:F:318:THR:OG1	1.82	0.95
1:I:508:TRP:O	1:I:606:GLY:N	1.98	0.95
1:J:314:ARG:O	1:J:315:GLU:CG	2.14	0.95
1:K:378:SER:H	1:K:422:ILE:HD12	1.27	0.95
1:C:518:LEU:CD2	1:C:643:TYR:CD1	2.27	0.95
1:E:298:LYS:HG3	1:E:312:LEU:HD12	1.44	0.95
1:G:637:LEU:O	1:G:638:GLU:HB2	1.65	0.95
1:H:637:LEU:O	1:H:638:GLU:HB2	1.65	0.95
1:L:301:LEU:HD21	1:L:313:PRO:HG2	1.45	0.95
1:L:637:LEU:O	1:L:638:GLU:HB2	1.65	0.95
1:M:317:LEU:O	1:M:318:THR:OG1	1.82	0.95
1:A:508:TRP:O	1:A:606:GLY:N	1.98	0.94
1:B:317:LEU:O	1:B:318:THR:OG1	1.82	0.94
1:C:373:SER:HB3	1:C:433:LEU:HD12	1.46	0.94
1:I:209:SER:OG	1:P:212:ASP:OD2	1.81	0.94
1:J:502:ARG:HB3	1:J:516:ASN:OD1	1.66	0.94
1:K:314:ARG:O	1:K:315:GLU:CG	2.15	0.94
1:N:508:TRP:O	1:N:606:GLY:N	1.98	0.94
1:N:637:LEU:O	1:N:638:GLU:HB2	1.65	0.94
1:C:14:ASP:OD2	1:D:142:ARG:NH1	2.00	0.94
1:D:314:ARG:O	1:D:315:GLU:CG	2.15	0.94
1:D:378:SER:H	1:D:422:ILE:HD12	1.27	0.94
1:J:212:ASP:OD2	1:K:209:SER:OG	1.85	0.94
1:J:378:SER:H	1:J:422:ILE:HD12	1.27	0.94
1:K:518:LEU:CD2	1:K:643:TYR:CD1	2.27	0.94
1:M:508:TRP:O	1:M:606:GLY:N	1.98	0.94
1:B:508:TRP:O	1:B:606:GLY:N	1.98	0.94
1:E:502:ARG:HB3	1:E:516:ASN:OD1	1.66	0.94
1:G:314:ARG:O	1:G:315:GLU:CG	2.15	0.94
1:J:276:SER:CB	1:K:121:ALA:HB1	1.98	0.94
1:L:373:SER:HB3	1:L:433:LEU:HD12	1.46	0.94
1:P:314:ARG:O	1:P:315:GLU:CG	2.14	0.94
1:P:637:LEU:O	1:P:638:GLU:HB2	1.65	0.94
1:A:637:LEU:O	1:A:638:GLU:HB2	1.65	0.94
1:B:502:ARG:HB3	1:B:516:ASN:OD1	1.66	0.94
1:F:451:LYS:HD3	1:F:486:LEU:HD21	1.47	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:518:LEU:CD2	1:E:643:TYR:CD1	2.27	0.94
1:H:301:LEU:HD21	1:H:313:PRO:HG2	1.45	0.94
1:H:463:LEU:HD22	1:H:467:PHE:CE2	2.03	0.94
1:H:518:LEU:CD2	1:H:643:TYR:CD1	2.27	0.94
1:I:502:ARG:HB3	1:I:516:ASN:OD1	1.66	0.94
1:M:502:ARG:HB3	1:M:516:ASN:OD1	1.66	0.94
1:O:505:SER:HG	1:O:513:SER:HG	0.98	0.94
1:J:298:LYS:HG3	1:J:312:LEU:HD12	1.44	0.94
1:N:314:ARG:O	1:N:315:GLU:CG	2.15	0.94
1:N:378:SER:H	1:N:422:ILE:HD12	1.27	0.94
1:O:463:LEU:HD22	1:O:467:PHE:CE2	2.03	0.94
1:C:451:LYS:HD3	1:C:486:LEU:HD21	1.47	0.94
1:E:875:LEU:CD1	1:E:911:PHE:CD2	2.23	0.94
1:I:451:LYS:HD3	1:I:486:LEU:HD21	1.47	0.94
1:K:301:LEU:HD21	1:K:313:PRO:HG2	1.45	0.94
1:A:314:ARG:O	1:A:315:GLU:CG	2.14	0.94
1:A:378:SER:H	1:A:422:ILE:HD12	1.27	0.94
1:A:557:LYS:O	1:A:1226:TYR:OH	1.86	0.94
1:B:463:LEU:HD22	1:B:467:PHE:CE2	2.03	0.94
1:E:378:SER:H	1:E:422:ILE:HD12	1.27	0.94
1:F:463:LEU:HD22	1:F:467:PHE:CE2	2.03	0.94
1:F:916:LYS:CE	1:G:1177:TYR:HE2	1.81	0.94
1:H:557:LYS:O	1:H:1226:TYR:OH	1.86	0.94
1:I:378:SER:H	1:I:422:ILE:HD12	1.27	0.94
1:I:463:LEU:HD22	1:I:467:PHE:CE2	2.03	0.94
1:N:557:LYS:O	1:N:1226:TYR:OH	1.86	0.94
1:O:557:LYS:O	1:O:1226:TYR:OH	1.86	0.94
1:P:557:LYS:O	1:P:1226:TYR:OH	1.86	0.94
1:D:547:PRO:HB3	1:D:603:ILE:HG13	1.50	0.94
1:G:557:LYS:O	1:G:1226:TYR:OH	1.86	0.94
1:M:463:LEU:HD22	1:M:467:PHE:CE2	2.03	0.94
1:M:637:LEU:O	1:M:638:GLU:HB2	1.65	0.94
1:O:301:LEU:HD21	1:O:313:PRO:HG2	1.45	0.94
1:C:637:LEU:O	1:C:638:GLU:HB2	1.65	0.94
1:J:518:LEU:CD2	1:J:643:TYR:CD1	2.27	0.94
1:J:875:LEU:CD1	1:J:911:PHE:CD2	2.23	0.94
1:K:463:LEU:HD22	1:K:467:PHE:CE2	2.03	0.94
1:N:463:LEU:HD22	1:N:467:PHE:CE2	2.03	0.94
1:O:518:LEU:CD2	1:O:643:TYR:CD1	2.27	0.94
1:B:557:LYS:O	1:B:1226:TYR:OH	1.86	0.93
1:B:637:LEU:O	1:B:638:GLU:HB2	1.65	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:875:LEU:CD1	1:B:911:PHE:CD2	2.23	0.93
1:K:451:LYS:HD3	1:K:486:LEU:HD21	1.47	0.93
1:K:547:PRO:HB3	1:K:603:ILE:HG13	1.51	0.93
1:A:463:LEU:HD22	1:A:467:PHE:CE2	2.03	0.93
1:D:301:LEU:HD21	1:D:313:PRO:HG2	1.45	0.93
1:D:463:LEU:HD22	1:D:467:PHE:CE2	2.03	0.93
1:M:557:LYS:O	1:M:1226:TYR:OH	1.86	0.93
1:D:451:LYS:HD3	1:D:486:LEU:HD21	1.47	0.93
1:G:463:LEU:HD22	1:G:467:PHE:CE2	2.03	0.93
1:B:518:LEU:CD2	1:B:643:TYR:CD1	2.27	0.93
1:C:463:LEU:HD22	1:C:467:PHE:CE2	2.03	0.93
1:L:451:LYS:HD3	1:L:486:LEU:HD21	1.47	0.93
1:O:378:SER:H	1:O:422:ILE:HD12	1.27	0.93
1:P:463:LEU:HD22	1:P:467:PHE:CE2	2.03	0.93
1:M:518:LEU:CD2	1:M:643:TYR:CD1	2.27	0.93
1:E:463:LEU:HD22	1:E:467:PHE:CE2	2.03	0.93
1:F:547:PRO:HB3	1:F:603:ILE:HG13	1.50	0.93
1:O:212:ASP:OD2	1:P:209:SER:OG	1.85	0.93
1:P:378:SER:H	1:P:422:ILE:HD12	1.27	0.93
1:A:505:SER:HG	1:A:513:SER:HG	1.04	0.93
1:B:547:PRO:HB3	1:B:603:ILE:HG13	1.50	0.93
1:F:545:PHE:CZ	1:F:565:ALA:HA	2.04	0.93
1:I:545:PHE:CZ	1:I:565:ALA:HA	2.04	0.93
1:I:557:LYS:O	1:I:1226:TYR:OH	1.86	0.93
1:L:463:LEU:HD22	1:L:467:PHE:CE2	2.03	0.93
1:F:378:SER:H	1:F:422:ILE:HD12	1.27	0.93
1:F:557:LYS:O	1:F:1226:TYR:OH	1.86	0.93
1:G:547:PRO:HB3	1:G:603:ILE:HG13	1.51	0.93
1:M:547:PRO:HB3	1:M:603:ILE:HG13	1.51	0.93
1:P:547:PRO:HB3	1:P:603:ILE:HG13	1.51	0.93
1:A:875:LEU:HD13	1:A:911:PHE:HE2	0.76	0.93
1:G:378:SER:H	1:G:422:ILE:HD12	1.27	0.93
1:H:378:SER:H	1:H:422:ILE:HD12	1.27	0.93
1:J:451:LYS:HD3	1:J:486:LEU:HD21	1.47	0.93
1:J:463:LEU:HD22	1:J:467:PHE:CE2	2.03	0.93
1:N:875:LEU:HD13	1:N:911:PHE:HE2	0.76	0.93
1:P:545:PHE:CZ	1:P:565:ALA:HA	2.04	0.93
1:E:451:LYS:HD3	1:E:486:LEU:HD21	1.47	0.93
1:E:545:PHE:CZ	1:E:565:ALA:HA	2.04	0.93
1:C:557:LYS:O	1:C:1226:TYR:OH	1.86	0.92
1:D:121:ALA:HB1	1:E:276:SER:CB	1.99	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:545:PHE:CZ	1:G:565:ALA:HA	2.04	0.92
1:H:875:LEU:CD1	1:H:911:PHE:CD2	2.24	0.92
1:I:547:PRO:HB3	1:I:603:ILE:HG13	1.51	0.92
1:A:483:ARG:O	1:A:487:PHE:N	2.03	0.92
1:E:875:LEU:HD13	1:E:911:PHE:HE2	0.76	0.92
1:J:545:PHE:CZ	1:J:565:ALA:HA	2.04	0.92
1:B:875:LEU:HD11	1:B:911:PHE:HD2	1.34	0.92
1:D:312:LEU:HD23	1:D:313:PRO:N	1.85	0.92
1:D:483:ARG:O	1:D:487:PHE:N	2.03	0.92
1:E:333:ASP:OD2	1:F:403:ASN:ND2	2.01	0.92
1:J:875:LEU:HD13	1:J:911:PHE:HE2	0.76	0.92
1:K:483:ARG:O	1:K:487:PHE:N	2.03	0.92
1:M:875:LEU:HD11	1:M:911:PHE:HD2	1.34	0.92
1:N:483:ARG:O	1:N:487:PHE:N	2.03	0.92
1:B:382:PRO:HA	1:B:419:THR:HG22	1.52	0.92
1:B:875:LEU:HD13	1:B:911:PHE:HE2	0.76	0.92
1:F:875:LEU:HD13	1:F:911:PHE:HE2	0.76	0.92
1:J:547:PRO:HB3	1:J:603:ILE:HG13	1.50	0.92
1:K:312:LEU:HD23	1:K:313:PRO:N	1.85	0.92
1:O:382:PRO:HA	1:O:419:THR:HG22	1.52	0.92
1:O:545:PHE:CZ	1:O:565:ALA:HA	2.04	0.92
1:B:545:PHE:CZ	1:B:565:ALA:HA	2.04	0.92
1:H:382:PRO:HA	1:H:419:THR:HG22	1.52	0.92
1:I:875:LEU:HD13	1:I:911:PHE:HE2	0.76	0.92
1:L:312:LEU:HD23	1:L:313:PRO:N	1.85	0.92
1:M:483:ARG:O	1:M:487:PHE:N	2.03	0.92
1:M:545:PHE:CZ	1:M:565:ALA:HA	2.04	0.92
1:A:382:PRO:HA	1:A:419:THR:HG22	1.52	0.92
1:B:483:ARG:O	1:B:487:PHE:N	2.03	0.92
1:C:312:LEU:HD23	1:C:313:PRO:N	1.85	0.92
1:D:545:PHE:CZ	1:D:565:ALA:HA	2.04	0.92
1:E:312:LEU:HD23	1:E:313:PRO:N	1.85	0.92
1:H:545:PHE:CZ	1:H:565:ALA:HA	2.04	0.92
1:H:875:LEU:HD13	1:H:911:PHE:HE2	0.76	0.92
1:M:382:PRO:HA	1:M:419:THR:HG22	1.52	0.92
1:M:875:LEU:HD13	1:M:911:PHE:HE2	0.76	0.92
1:N:312:LEU:HD23	1:N:313:PRO:CD	2.00	0.92
1:O:875:LEU:CD1	1:O:911:PHE:CD2	2.23	0.92
1:O:875:LEU:HD13	1:O:911:PHE:HE2	0.76	0.92
1:A:312:LEU:HD23	1:A:313:PRO:CD	2.00	0.92
1:B:312:LEU:HD23	1:B:313:PRO:N	1.85	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:547:PRO:HB3	1:E:603:ILE:HG13	1.50	0.92
1:G:382:PRO:HA	1:G:419:THR:HG22	1.52	0.92
1:H:547:PRO:HB3	1:H:603:ILE:HG13	1.50	0.92
1:I:313:PRO:HG3	1:I:338:TRP:HE1	1.28	0.92
1:L:557:LYS:O	1:L:1226:TYR:OH	1.86	0.92
1:P:382:PRO:HA	1:P:419:THR:HG22	1.52	0.92
1:B:312:LEU:HD23	1:B:313:PRO:CD	2.00	0.92
1:C:547:PRO:HB3	1:C:603:ILE:HG13	1.50	0.92
1:F:916:LYS:HE2	1:G:1177:TYR:CE2	2.04	0.92
1:H:483:ARG:O	1:H:487:PHE:N	2.03	0.92
1:J:312:LEU:HD23	1:J:313:PRO:N	1.85	0.92
1:K:545:PHE:CZ	1:K:565:ALA:HA	2.04	0.92
1:M:312:LEU:HD23	1:M:313:PRO:CD	2.00	0.92
1:O:547:PRO:HB3	1:O:603:ILE:HG13	1.50	0.92
1:B:209:SER:OG	1:C:212:ASP:OD2	1.87	0.92
1:C:545:PHE:CZ	1:C:565:ALA:HA	2.04	0.92
1:D:875:LEU:HD13	1:D:911:PHE:HE2	0.76	0.92
1:K:557:LYS:HB3	1:K:1226:TYR:CE1	2.05	0.92
1:K:875:LEU:HD13	1:K:911:PHE:HE2	0.76	0.92
1:L:557:LYS:HB3	1:L:1226:TYR:CE1	2.05	0.92
1:M:312:LEU:HD23	1:M:313:PRO:N	1.85	0.92
1:O:483:ARG:O	1:O:487:PHE:N	2.03	0.92
1:F:875:LEU:CD1	1:F:911:PHE:CD2	2.23	0.92
1:N:382:PRO:HA	1:N:419:THR:HG22	1.52	0.92
1:O:312:LEU:HD23	1:O:313:PRO:CD	2.00	0.92
1:P:505:SER:HG	1:P:513:SER:HG	1.12	0.92
1:A:212:ASP:OD2	1:H:209:SER:OG	1.87	0.91
1:C:312:LEU:HD23	1:C:313:PRO:CD	2.00	0.91
1:D:557:LYS:HB3	1:D:1226:TYR:CE1	2.05	0.91
1:G:518:LEU:CD2	1:G:643:TYR:CD1	2.27	0.91
1:J:483:ARG:O	1:J:487:PHE:N	2.03	0.91
1:J:557:LYS:HB3	1:J:1226:TYR:CE1	2.05	0.91
1:L:483:ARG:O	1:L:487:PHE:N	2.03	0.91
1:L:545:PHE:CZ	1:L:565:ALA:HA	2.04	0.91
1:C:557:LYS:HB3	1:C:1226:TYR:CE1	2.05	0.91
1:E:557:LYS:HB3	1:E:1226:TYR:CE1	2.05	0.91
1:H:312:LEU:HD23	1:H:313:PRO:CD	2.00	0.91
1:J:557:LYS:O	1:J:1226:TYR:OH	1.86	0.91
1:L:875:LEU:HD13	1:L:911:PHE:HE2	0.76	0.91
1:N:545:PHE:CZ	1:N:565:ALA:HA	2.04	0.91
1:O:557:LYS:HB3	1:O:1226:TYR:CE1	2.05	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:LEU:HD13	1:C:911:PHE:HE2	0.76	0.91
1:E:483:ARG:O	1:E:487:PHE:N	2.03	0.91
1:G:483:ARG:O	1:G:487:PHE:N	2.03	0.91
1:H:557:LYS:HB3	1:H:1226:TYR:CE1	2.05	0.91
1:L:312:LEU:HD23	1:L:313:PRO:CD	2.00	0.91
1:P:483:ARG:O	1:P:487:PHE:N	2.03	0.91
1:A:545:PHE:CZ	1:A:565:ALA:HA	2.04	0.91
1:B:121:ALA:CB	1:C:276:SER:HB3	1.97	0.91
1:B:557:LYS:HB3	1:B:1226:TYR:CE1	2.05	0.91
1:C:382:PRO:HA	1:C:419:THR:HG22	1.52	0.91
1:C:483:ARG:O	1:C:487:PHE:N	2.03	0.91
1:E:557:LYS:O	1:E:1226:TYR:OH	1.86	0.91
1:F:382:PRO:HA	1:F:419:THR:HG22	1.52	0.91
1:F:483:ARG:O	1:F:487:PHE:N	2.03	0.91
1:K:453:PHE:CZ	1:K:460:PRO:HB3	2.06	0.91
1:L:382:PRO:HA	1:L:419:THR:HG22	1.52	0.91
1:M:557:LYS:HB3	1:M:1226:TYR:CE1	2.05	0.91
1:P:518:LEU:CD2	1:P:643:TYR:CD1	2.27	0.91
1:A:557:LYS:HB3	1:A:1226:TYR:CE1	2.05	0.91
1:D:453:PHE:CZ	1:D:460:PRO:HB3	2.06	0.91
1:F:313:PRO:HG3	1:F:338:TRP:HE1	1.28	0.91
1:H:518:LEU:O	1:H:522:LYS:N	2.04	0.91
1:N:557:LYS:HB3	1:N:1226:TYR:CE1	2.05	0.91
1:O:518:LEU:O	1:O:522:LYS:N	2.04	0.91
1:I:483:ARG:O	1:I:487:PHE:N	2.03	0.91
1:B:453:PHE:CZ	1:B:460:PRO:HB3	2.06	0.91
1:F:312:LEU:HD23	1:F:313:PRO:N	1.85	0.91
1:I:312:LEU:HD23	1:I:313:PRO:N	1.85	0.91
1:I:518:LEU:O	1:I:522:LYS:N	2.04	0.91
1:K:557:LYS:O	1:K:1226:TYR:OH	1.86	0.91
1:L:547:PRO:HB3	1:L:603:ILE:HG13	1.50	0.91
1:M:453:PHE:CZ	1:M:460:PRO:HB3	2.06	0.91
1:D:382:PRO:HA	1:D:419:THR:HG22	1.52	0.91
1:D:557:LYS:O	1:D:1226:TYR:OH	1.86	0.91
1:F:518:LEU:O	1:F:522:LYS:N	2.04	0.91
1:B:518:LEU:O	1:B:522:LYS:N	2.04	0.91
1:G:453:PHE:CZ	1:G:460:PRO:HB3	2.06	0.91
1:I:382:PRO:HA	1:I:419:THR:HG22	1.52	0.91
1:M:518:LEU:O	1:M:522:LYS:N	2.04	0.91
1:A:312:LEU:HD23	1:A:313:PRO:N	1.85	0.91
1:C:875:LEU:HD11	1:C:911:PHE:HD2	1.35	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:557:LYS:HB3	1:I:1226:TYR:CE1	2.05	0.91
1:K:382:PRO:HA	1:K:419:THR:HG22	1.52	0.91
1:N:312:LEU:HD23	1:N:313:PRO:N	1.85	0.91
1:P:557:LYS:HB3	1:P:1226:TYR:CE1	2.05	0.91
1:G:312:LEU:HD23	1:G:313:PRO:N	1.85	0.90
1:P:312:LEU:HD23	1:P:313:PRO:N	1.85	0.90
1:P:453:PHE:CZ	1:P:460:PRO:HB3	2.06	0.90
1:D:518:LEU:O	1:D:522:LYS:N	2.04	0.90
1:G:557:LYS:HB3	1:G:1226:TYR:CE1	2.05	0.90
1:G:875:LEU:CD1	1:G:911:PHE:CD2	2.23	0.90
1:A:453:PHE:CZ	1:A:460:PRO:HB3	2.06	0.90
1:E:382:PRO:HA	1:E:419:THR:HG22	1.52	0.90
1:K:518:LEU:O	1:K:522:LYS:N	2.04	0.90
1:L:557:LYS:HE3	1:L:1224:LEU:O	1.72	0.90
1:N:518:LEU:O	1:N:522:LYS:N	2.04	0.90
1:N:547:PRO:HB3	1:N:603:ILE:HG13	1.50	0.90
1:P:312:LEU:HD23	1:P:313:PRO:CD	2.00	0.90
1:P:557:LYS:HE3	1:P:1224:LEU:O	1.72	0.90
1:A:518:LEU:O	1:A:522:LYS:N	2.04	0.90
1:C:518:LEU:O	1:C:522:LYS:N	2.04	0.90
1:E:557:LYS:HE3	1:E:1224:LEU:O	1.72	0.90
1:F:312:LEU:HD23	1:F:313:PRO:CD	2.00	0.90
1:G:312:LEU:HD23	1:G:313:PRO:CD	2.00	0.90
1:J:557:LYS:HE3	1:J:1224:LEU:O	1.72	0.90
1:N:453:PHE:CZ	1:N:460:PRO:HB3	2.06	0.90
1:D:312:LEU:HD23	1:D:313:PRO:CD	2.00	0.90
1:F:557:LYS:HB3	1:F:1226:TYR:CE1	2.05	0.90
1:G:518:LEU:O	1:G:522:LYS:N	2.04	0.90
1:G:557:LYS:HE3	1:G:1224:LEU:O	1.72	0.90
1:H:453:PHE:CZ	1:H:460:PRO:HB3	2.06	0.90
1:I:453:PHE:CZ	1:I:460:PRO:HB3	2.06	0.90
1:O:453:PHE:CZ	1:O:460:PRO:HB3	2.06	0.90
1:P:875:LEU:CD1	1:P:911:PHE:CD2	2.24	0.90
1:A:547:PRO:HB3	1:A:603:ILE:HG13	1.50	0.90
1:C:557:LYS:HE3	1:C:1224:LEU:O	1.72	0.90
1:E:518:LEU:O	1:E:522:LYS:N	2.04	0.90
1:I:312:LEU:HD23	1:I:313:PRO:CD	2.00	0.90
1:J:382:PRO:HA	1:J:419:THR:HG22	1.52	0.90
1:P:518:LEU:O	1:P:522:LYS:N	2.04	0.90
1:G:875:LEU:HD13	1:G:911:PHE:HE2	0.76	0.90
1:K:312:LEU:HD23	1:K:313:PRO:CD	2.00	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:312:LEU:HD23	1:H:313:PRO:N	1.85	0.90
1:J:312:LEU:HD23	1:J:313:PRO:CD	2.00	0.90
1:J:518:LEU:O	1:J:522:LYS:N	2.04	0.90
1:L:518:LEU:O	1:L:522:LYS:N	2.04	0.90
1:N:557:LYS:HE3	1:N:1224:LEU:O	1.72	0.90
1:O:312:LEU:HD23	1:O:313:PRO:N	1.85	0.90
1:C:453:PHE:CZ	1:C:460:PRO:HB3	2.06	0.90
1:F:916:LYS:CE	1:G:1177:TYR:CE2	2.55	0.90
1:A:557:LYS:HE3	1:A:1224:LEU:O	1.72	0.90
1:E:312:LEU:HD23	1:E:313:PRO:CD	2.00	0.90
1:F:453:PHE:CZ	1:F:460:PRO:HB3	2.06	0.90
1:H:557:LYS:HE3	1:H:1224:LEU:O	1.72	0.90
1:P:875:LEU:HD13	1:P:911:PHE:HE2	0.76	0.90
1:O:557:LYS:HE3	1:O:1224:LEU:O	1.72	0.89
1:B:557:LYS:HE3	1:B:1224:LEU:O	1.72	0.89
1:E:453:PHE:CZ	1:E:460:PRO:HB3	2.06	0.89
1:J:453:PHE:CZ	1:J:460:PRO:HB3	2.06	0.89
1:L:453:PHE:CZ	1:L:460:PRO:HB3	2.06	0.89
1:M:557:LYS:HE3	1:M:1224:LEU:O	1.72	0.89
1:B:333:ASP:OD2	1:C:403:ASN:ND2	2.04	0.89
1:K:222:HIS:CG	1:L:198:LYS:HZ1	1.91	0.89
1:I:276:SER:CB	1:J:121:ALA:HB1	2.03	0.89
1:A:518:LEU:CD2	1:A:643:TYR:CD1	2.27	0.89
1:J:504:ASP:HB3	1:J:509:ASN:O	1.73	0.89
1:B:504:ASP:HB3	1:B:509:ASN:O	1.73	0.89
1:C:505:SER:HG	1:C:513:SER:HG	1.12	0.89
1:G:121:ALA:HB1	1:H:276:SER:CB	2.03	0.89
1:I:557:LYS:HE3	1:I:1224:LEU:O	1.72	0.89
1:I:504:ASP:HB3	1:I:509:ASN:O	1.73	0.89
1:M:504:ASP:HB3	1:M:509:ASN:O	1.73	0.89
1:N:518:LEU:CD2	1:N:643:TYR:CD1	2.27	0.89
1:E:504:ASP:HB3	1:E:509:ASN:O	1.73	0.88
1:H:504:ASP:HB3	1:H:509:ASN:O	1.73	0.88
1:K:557:LYS:HE3	1:K:1224:LEU:O	1.72	0.88
1:O:504:ASP:HB3	1:O:509:ASN:O	1.73	0.88
1:F:504:ASP:HB3	1:F:509:ASN:O	1.73	0.88
1:C:875:LEU:CD1	1:C:911:PHE:CD2	2.23	0.88
1:G:914:VAL:HG13	1:G:917:TYR:O	1.73	0.88
1:K:222:HIS:CG	1:L:198:LYS:NZ	2.41	0.88
1:H:914:VAL:HG13	1:H:917:TYR:O	1.74	0.88
1:P:914:VAL:HG13	1:P:917:TYR:O	1.74	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:557:LYS:HE3	1:D:1224:LEU:O	1.72	0.88
1:E:914:VAL:HG13	1:E:917:TYR:O	1.74	0.88
1:F:557:LYS:HE3	1:F:1224:LEU:O	1.72	0.88
1:J:914:VAL:HG13	1:J:917:TYR:O	1.73	0.88
1:K:504:ASP:HB3	1:K:509:ASN:O	1.73	0.88
1:O:914:VAL:HG13	1:O:917:TYR:O	1.74	0.88
1:B:914:VAL:HG13	1:B:917:TYR:O	1.73	0.88
1:M:914:VAL:HG13	1:M:917:TYR:O	1.73	0.88
1:K:875:LEU:HD11	1:K:911:PHE:HD2	1.35	0.88
1:N:276:SER:CB	1:O:121:ALA:HB1	2.02	0.88
1:D:504:ASP:HB3	1:D:509:ASN:O	1.73	0.88
1:L:505:SER:HG	1:L:513:SER:HG	1.12	0.88
1:L:875:LEU:CD1	1:L:911:PHE:CD2	2.24	0.88
1:M:276:SER:CB	1:N:121:ALA:HB1	2.03	0.88
1:D:875:LEU:HD11	1:D:911:PHE:HD2	1.35	0.88
1:G:504:ASP:HB3	1:G:509:ASN:O	1.73	0.88
1:L:442:SER:O	1:L:446:HIS:HD2	1.57	0.88
1:P:504:ASP:HB3	1:P:509:ASN:O	1.73	0.88
1:G:505:SER:HG	1:G:513:SER:HG	1.16	0.87
1:A:504:ASP:HB3	1:A:509:ASN:O	1.73	0.87
1:D:509:ASN:HD21	1:D:632:LEU:CD1	1.88	0.87
1:H:442:SER:O	1:H:446:HIS:HD2	1.57	0.87
1:K:509:ASN:HD21	1:K:632:LEU:CD1	1.88	0.87
1:N:504:ASP:HB3	1:N:509:ASN:O	1.73	0.87
1:C:442:SER:O	1:C:446:HIS:HD2	1.57	0.87
1:G:509:ASN:HD21	1:G:632:LEU:CD1	1.88	0.87
1:N:914:VAL:HG13	1:N:917:TYR:O	1.74	0.87
1:O:442:SER:O	1:O:446:HIS:HD2	1.57	0.87
1:P:509:ASN:HD21	1:P:632:LEU:CD1	1.88	0.87
1:C:504:ASP:HB3	1:C:509:ASN:O	1.73	0.87
1:J:505:SER:HG	1:J:513:SER:HG	1.17	0.87
1:L:914:VAL:HG13	1:L:917:TYR:O	1.73	0.87
1:N:509:ASN:HD21	1:N:632:LEU:CD1	1.88	0.87
1:A:509:ASN:HD21	1:A:632:LEU:CD1	1.88	0.87
1:B:509:ASN:HD21	1:B:632:LEU:CD1	1.88	0.87
1:F:509:ASN:HD21	1:F:632:LEU:CD1	1.88	0.87
1:F:914:VAL:HG13	1:F:917:TYR:O	1.74	0.87
1:I:509:ASN:HD21	1:I:632:LEU:CD1	1.88	0.87
1:A:914:VAL:HG13	1:A:917:TYR:O	1.74	0.87
1:M:509:ASN:HD21	1:M:632:LEU:CD1	1.88	0.87
1:L:504:ASP:HB3	1:L:509:ASN:O	1.73	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:875:LEU:HD11	1:N:911:PHE:HD2	1.34	0.87
1:J:442:SER:O	1:J:446:HIS:HD2	1.57	0.87
1:D:914:VAL:HG13	1:D:917:TYR:O	1.74	0.86
1:E:442:SER:O	1:E:446:HIS:HD2	1.57	0.86
1:I:914:VAL:HG13	1:I:917:TYR:O	1.74	0.86
1:C:914:VAL:HG13	1:C:917:TYR:O	1.73	0.86
1:F:442:SER:O	1:F:446:HIS:HD2	1.57	0.86
1:L:509:ASN:HD21	1:L:632:LEU:CD1	1.88	0.86
1:H:509:ASN:HD21	1:H:632:LEU:CD1	1.88	0.86
1:K:914:VAL:HG13	1:K:917:TYR:O	1.74	0.86
1:A:875:LEU:HD11	1:A:911:PHE:HD2	1.35	0.86
1:O:509:ASN:HD21	1:O:632:LEU:CD1	1.88	0.86
1:C:509:ASN:HD21	1:C:632:LEU:CD1	1.88	0.86
1:E:509:ASN:HD21	1:E:632:LEU:CD1	1.88	0.86
1:O:508:TRP:C	1:O:606:GLY:HA3	1.96	0.86
1:I:442:SER:O	1:I:446:HIS:HD2	1.57	0.86
1:H:508:TRP:C	1:H:606:GLY:HA3	1.97	0.86
1:J:403:ASN:ND2	1:K:333:ASP:OD2	2.09	0.86
1:J:509:ASN:HD21	1:J:632:LEU:CD1	1.88	0.86
1:A:276:SER:CB	1:H:121:ALA:HB1	2.04	0.85
1:F:508:TRP:C	1:F:606:GLY:HA3	1.97	0.85
1:E:505:SER:HG	1:E:513:SER:HG	1.18	0.85
1:E:508:TRP:C	1:E:606:GLY:HA3	1.96	0.85
1:G:875:LEU:HD11	1:G:911:PHE:HD2	1.34	0.85
1:I:508:TRP:C	1:I:606:GLY:HA3	1.96	0.85
1:J:508:TRP:C	1:J:606:GLY:HA3	1.97	0.85
1:M:508:TRP:C	1:M:606:GLY:HA3	1.96	0.85
1:B:508:TRP:C	1:B:606:GLY:HA3	1.97	0.85
1:O:276:SER:CB	1:P:121:ALA:HB1	2.06	0.85
1:P:875:LEU:HD11	1:P:911:PHE:HD2	1.35	0.85
1:D:298:LYS:HG3	1:D:312:LEU:CD1	2.07	0.85
1:H:505:SER:HG	1:H:513:SER:HG	1.07	0.85
1:K:298:LYS:HG3	1:K:312:LEU:CD1	2.07	0.85
1:N:442:SER:O	1:N:446:HIS:HD2	1.58	0.85
1:P:508:TRP:C	1:P:606:GLY:HA3	1.96	0.85
1:G:508:TRP:C	1:G:606:GLY:HA3	1.96	0.85
1:L:633:THR:HG21	1:L:643:TYR:HA	1.59	0.85
1:B:298:LYS:HG3	1:B:312:LEU:CD1	2.07	0.85
1:C:633:THR:HG21	1:C:643:TYR:HA	1.59	0.85
1:F:633:THR:HG21	1:F:643:TYR:HA	1.59	0.85
1:G:298:LYS:HG3	1:G:312:LEU:CD1	2.07	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:633:THR:HG21	1:I:643:TYR:HA	1.59	0.85
1:L:508:TRP:C	1:L:606:GLY:HA3	1.97	0.85
1:P:298:LYS:HG3	1:P:312:LEU:CD1	2.07	0.85
1:C:508:TRP:C	1:C:606:GLY:HA3	1.97	0.85
1:E:633:THR:HG21	1:E:643:TYR:HA	1.59	0.85
1:F:300:LEU:HD13	2:F:1501:DTP:H2	1.59	0.85
1:I:389:ILE:HD13	1:I:446:HIS:HE2	1.42	0.85
1:I:463:LEU:HD22	1:I:467:PHE:CD2	2.12	0.85
1:J:633:THR:HG21	1:J:643:TYR:HA	1.59	0.85
1:M:298:LYS:HG3	1:M:312:LEU:CD1	2.07	0.85
1:A:442:SER:O	1:A:446:HIS:HD2	1.57	0.84
1:E:463:LEU:HD22	1:E:467:PHE:CD2	2.12	0.84
1:I:300:LEU:HD13	2:I:1501:DTP:H2	1.60	0.84
1:P:442:SER:O	1:P:446:HIS:HD2	1.57	0.84
1:A:298:LYS:HG3	1:A:312:LEU:CD1	2.07	0.84
1:A:508:TRP:C	1:A:606:GLY:HA3	1.97	0.84
1:F:389:ILE:HD13	1:F:446:HIS:HE2	1.42	0.84
1:F:463:LEU:HD22	1:F:467:PHE:CD2	2.12	0.84
1:I:298:LYS:HG3	1:I:312:LEU:CD1	2.07	0.84
1:N:298:LYS:HG3	1:N:312:LEU:CD1	2.07	0.84
1:D:633:THR:HG21	1:D:643:TYR:HA	1.59	0.84
1:F:298:LYS:HG3	1:F:312:LEU:CD1	2.07	0.84
1:J:463:LEU:HD22	1:J:467:PHE:CD2	2.12	0.84
1:K:300:LEU:HD13	2:K:1501:DTP:H2	1.60	0.84
1:M:252:ALA:O	1:M:253:TRP:C	2.15	0.84
1:N:508:TRP:C	1:N:606:GLY:HA3	1.96	0.84
1:D:389:ILE:HD13	1:D:446:HIS:HE2	1.42	0.84
1:K:389:ILE:HD13	1:K:446:HIS:HE2	1.42	0.84
1:K:633:THR:HG21	1:K:643:TYR:HA	1.59	0.84
1:L:300:LEU:HD13	2:L:1501:DTP:H2	1.60	0.84
1:O:298:LYS:HG3	1:O:312:LEU:CD1	2.07	0.84
1:B:252:ALA:O	1:B:253:TRP:C	2.15	0.84
1:B:505:SER:HG	1:B:513:SER:HG	1.21	0.84
1:C:300:LEU:HD13	2:C:1501:DTP:H2	1.60	0.84
1:D:300:LEU:HD13	2:D:1501:DTP:H2	1.60	0.84
1:D:463:LEU:HD22	1:D:467:PHE:CD2	2.12	0.84
1:E:492:LEU:CD2	1:E:562:LEU:HD23	2.08	0.84
1:J:492:LEU:CD2	1:J:562:LEU:HD23	2.08	0.84
1:K:463:LEU:HD22	1:K:467:PHE:CD2	2.12	0.84
1:P:492:LEU:CD2	1:P:562:LEU:HD23	2.08	0.84
1:A:633:THR:HG21	1:A:643:TYR:HA	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:134:LEU:HD22	1:G:164:VAL:HG11	1.60	0.84
1:G:442:SER:O	1:G:446:HIS:HD2	1.57	0.84
1:G:492:LEU:CD2	1:G:562:LEU:HD23	2.08	0.84
1:H:298:LYS:HG3	1:H:312:LEU:CD1	2.07	0.84
1:N:633:THR:HG21	1:N:643:TYR:HA	1.59	0.84
1:A:252:ALA:O	1:A:253:TRP:C	2.15	0.84
1:E:300:LEU:HD13	2:E:1501:DTP:H2	1.60	0.84
1:E:875:LEU:HD11	1:E:911:PHE:HD2	1.35	0.84
1:G:300:LEU:HD13	2:G:1501:DTP:H2	1.60	0.84
1:J:875:LEU:HD11	1:J:911:PHE:HD2	1.34	0.84
1:M:492:LEU:CD2	1:M:562:LEU:HD23	2.08	0.84
1:O:134:LEU:HD22	1:O:164:VAL:HG11	1.59	0.84
1:P:134:LEU:HD22	1:P:164:VAL:HG11	1.60	0.84
1:B:492:LEU:CD2	1:B:562:LEU:HD23	2.08	0.84
1:E:252:ALA:O	1:E:253:TRP:C	2.15	0.84
1:J:252:ALA:O	1:J:253:TRP:C	2.15	0.84
1:J:300:LEU:HD13	2:J:1501:DTP:H2	1.60	0.84
1:M:505:SER:HG	1:M:513:SER:HG	1.21	0.84
1:P:300:LEU:HD13	2:P:1501:DTP:H2	1.60	0.84
1:D:492:LEU:CD2	1:D:562:LEU:HD23	2.08	0.84
1:G:633:THR:HG21	1:G:643:TYR:HA	1.59	0.84
1:H:134:LEU:HD22	1:H:164:VAL:HG11	1.60	0.84
1:H:389:ILE:HD13	1:H:446:HIS:HE2	1.42	0.84
1:K:492:LEU:CD2	1:K:562:LEU:HD23	2.08	0.84
1:L:492:LEU:CD2	1:L:562:LEU:HD23	2.08	0.84
1:N:252:ALA:O	1:N:253:TRP:C	2.15	0.84
1:N:389:ILE:HD13	1:N:446:HIS:HE2	1.42	0.84
1:O:492:LEU:CD2	1:O:562:LEU:HD23	2.08	0.84
1:A:389:ILE:HD13	1:A:446:HIS:HE2	1.42	0.84
1:A:492:LEU:CD2	1:A:562:LEU:HD23	2.08	0.84
1:B:389:ILE:HD13	1:B:446:HIS:HE2	1.42	0.84
1:B:442:SER:O	1:B:446:HIS:HD2	1.57	0.84
1:C:492:LEU:CD2	1:C:562:LEU:HD23	2.08	0.84
1:E:298:LYS:HG3	1:E:312:LEU:CD1	2.07	0.84
1:K:249:ASN:HB2	1:K:252:ALA:HB2	1.60	0.84
1:O:633:THR:HG21	1:O:643:TYR:HA	1.59	0.84
1:A:463:LEU:HD22	1:A:467:PHE:CD2	2.12	0.83
1:B:300:LEU:HD13	2:B:1501:DTP:H2	1.59	0.83
1:D:249:ASN:HB2	1:D:252:ALA:HB2	1.60	0.83
1:F:492:LEU:CD2	1:F:562:LEU:HD23	2.08	0.83
1:H:492:LEU:CD2	1:H:562:LEU:HD23	2.08	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:492:LEU:CD2	1:N:562:LEU:HD23	2.08	0.83
1:P:633:THR:HG21	1:P:643:TYR:HA	1.59	0.83
1:F:134:LEU:HD22	1:F:164:VAL:HG11	1.60	0.83
1:G:249:ASN:HB2	1:G:252:ALA:HB2	1.60	0.83
1:I:134:LEU:HD22	1:I:164:VAL:HG11	1.60	0.83
1:M:389:ILE:HD13	1:M:446:HIS:HE2	1.42	0.83
1:M:463:LEU:HD22	1:M:467:PHE:CD2	2.12	0.83
1:N:463:LEU:HD22	1:N:467:PHE:CD2	2.12	0.83
1:P:249:ASN:HB2	1:P:252:ALA:HB2	1.60	0.83
1:B:463:LEU:HD22	1:B:467:PHE:CD2	2.12	0.83
1:C:298:LYS:HG3	1:C:312:LEU:CD1	2.07	0.83
1:D:252:ALA:O	1:D:253:TRP:C	2.15	0.83
1:H:548:LYS:HZ2	1:H:601:GLN:HA	1.43	0.83
1:H:633:THR:HG21	1:H:643:TYR:HA	1.59	0.83
1:I:492:LEU:CD2	1:I:562:LEU:HD23	2.08	0.83
1:J:298:LYS:HG3	1:J:312:LEU:CD1	2.07	0.83
1:O:389:ILE:HD13	1:O:446:HIS:HE2	1.42	0.83
1:O:548:LYS:HZ2	1:O:601:GLN:HA	1.43	0.83
1:E:378:SER:CA	1:E:422:ILE:HD12	2.09	0.83
1:F:875:LEU:HD11	1:F:911:PHE:HD2	1.35	0.83
1:H:463:LEU:HD22	1:H:467:PHE:CD2	2.12	0.83
1:I:249:ASN:HB2	1:I:252:ALA:HB2	1.60	0.83
1:K:252:ALA:O	1:K:253:TRP:C	2.15	0.83
1:K:508:TRP:C	1:K:606:GLY:HA3	1.97	0.83
1:L:298:LYS:HG3	1:L:312:LEU:CD1	2.07	0.83
1:L:463:LEU:HD22	1:L:467:PHE:CD2	2.12	0.83
1:M:300:LEU:HD13	2:M:1501:DTP:H2	1.60	0.83
1:C:252:ALA:O	1:C:253:TRP:C	2.15	0.83
1:C:463:LEU:HD22	1:C:467:PHE:CD2	2.12	0.83
1:D:508:TRP:C	1:D:606:GLY:HA3	1.97	0.83
1:J:378:SER:CA	1:J:422:ILE:HD12	2.09	0.83
1:P:463:LEU:HD22	1:P:467:PHE:CD2	2.12	0.83
1:F:249:ASN:HB2	1:F:252:ALA:HB2	1.60	0.83
1:G:463:LEU:HD22	1:G:467:PHE:CD2	2.12	0.83
1:H:875:LEU:HD11	1:H:911:PHE:HD2	1.35	0.83
1:O:875:LEU:HD11	1:O:911:PHE:HD2	1.35	0.83
1:E:194:GLU:OE2	1:F:216:ASN:ND2	2.10	0.83
1:K:442:SER:O	1:K:446:HIS:HD2	1.58	0.83
1:L:914:VAL:CG1	1:L:917:TYR:O	2.27	0.83
1:O:300:LEU:HD13	2:O:1501:DTP:H2	1.60	0.83
1:O:463:LEU:HD22	1:O:467:PHE:CD2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:633:THR:HG21	1:G:642:THR:C	1.99	0.83
1:G:914:VAL:CG1	1:G:917:TYR:O	2.27	0.83
1:N:134:LEU:HD22	1:N:164:VAL:HG11	1.60	0.83
1:C:914:VAL:CG1	1:C:917:TYR:O	2.27	0.83
1:F:622:LEU:CB	1:F:634:ASP:HB2	2.09	0.83
1:F:633:THR:HG21	1:F:642:THR:C	1.99	0.83
1:H:300:LEU:HD13	2:H:1501:DTP:H2	1.60	0.83
1:I:633:THR:HG21	1:I:642:THR:C	1.99	0.83
1:I:914:VAL:CG1	1:I:917:TYR:O	2.27	0.83
1:L:252:ALA:O	1:L:253:TRP:C	2.15	0.83
1:M:622:LEU:CB	1:M:634:ASP:HB2	2.09	0.83
1:P:633:THR:HG21	1:P:642:THR:C	1.99	0.83
1:A:300:LEU:HD13	2:A:1501:DTP:H2	1.60	0.83
1:B:622:LEU:CB	1:B:634:ASP:HB2	2.09	0.83
1:D:914:VAL:CG1	1:D:917:TYR:O	2.27	0.83
1:F:914:VAL:CG1	1:F:917:TYR:O	2.27	0.83
1:I:622:LEU:CB	1:I:634:ASP:HB2	2.09	0.83
1:P:378:SER:CA	1:P:422:ILE:HD12	2.09	0.83
1:P:914:VAL:CG1	1:P:917:TYR:O	2.27	0.83
1:A:134:LEU:HD22	1:A:164:VAL:HG11	1.60	0.82
1:A:186:CYS:O	1:A:249:ASN:ND2	2.12	0.82
1:G:378:SER:CA	1:G:422:ILE:HD12	2.09	0.82
1:J:186:CYS:O	1:J:249:ASN:ND2	2.12	0.82
1:K:914:VAL:CG1	1:K:917:TYR:O	2.27	0.82
1:N:186:CYS:O	1:N:249:ASN:ND2	2.12	0.82
1:N:300:LEU:HD13	2:N:1501:DTP:H2	1.60	0.82
1:C:389:ILE:HD13	1:C:446:HIS:HE2	1.42	0.82
1:C:622:LEU:CB	1:C:634:ASP:HB2	2.09	0.82
1:D:442:SER:O	1:D:446:HIS:HD2	1.57	0.82
1:E:186:CYS:O	1:E:249:ASN:ND2	2.13	0.82
1:E:413:LYS:HD3	1:E:422:ILE:O	1.79	0.82
1:F:186:CYS:O	1:F:249:ASN:ND2	2.12	0.82
1:H:413:LYS:HD3	1:H:422:ILE:O	1.79	0.82
1:H:457:ASP:OD1	1:H:587:ARG:HB2	1.80	0.82
1:H:633:THR:HG21	1:H:642:THR:C	1.99	0.82
1:I:186:CYS:O	1:I:249:ASN:ND2	2.12	0.82
1:I:875:LEU:HD11	1:I:911:PHE:HD2	1.35	0.82
1:M:413:LYS:HD3	1:M:422:ILE:O	1.79	0.82
1:M:457:ASP:OD1	1:M:587:ARG:HB2	1.80	0.82
1:N:622:LEU:CB	1:N:634:ASP:HB2	2.09	0.82
1:O:413:LYS:HD3	1:O:422:ILE:O	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:249:ASN:HB2	1:A:252:ALA:HB2	1.60	0.82
1:A:622:LEU:CB	1:A:634:ASP:HB2	2.09	0.82
1:B:413:LYS:HD3	1:B:422:ILE:O	1.79	0.82
1:B:457:ASP:OD1	1:B:587:ARG:HB2	1.80	0.82
1:E:633:THR:HG21	1:E:642:THR:C	1.99	0.82
1:G:186:CYS:O	1:G:249:ASN:ND2	2.12	0.82
1:G:622:LEU:CB	1:G:634:ASP:HB2	2.09	0.82
1:H:622:LEU:CB	1:H:634:ASP:HB2	2.09	0.82
1:J:413:LYS:HD3	1:J:422:ILE:O	1.79	0.82
1:L:378:SER:CA	1:L:422:ILE:HD12	2.09	0.82
1:L:457:ASP:OD1	1:L:587:ARG:HB2	1.80	0.82
1:L:622:LEU:CB	1:L:634:ASP:HB2	2.09	0.82
1:O:457:ASP:OD1	1:O:587:ARG:HB2	1.80	0.82
1:O:633:THR:HG21	1:O:642:THR:C	1.99	0.82
1:P:186:CYS:O	1:P:249:ASN:ND2	2.12	0.82
1:P:622:LEU:CB	1:P:634:ASP:HB2	2.09	0.82
1:B:249:ASN:HB2	1:B:252:ALA:HB2	1.60	0.82
1:B:633:THR:HG21	1:B:642:THR:C	1.99	0.82
1:C:134:LEU:HD22	1:C:164:VAL:HG11	1.60	0.82
1:C:413:LYS:HD3	1:C:422:ILE:O	1.79	0.82
1:J:633:THR:HG21	1:J:642:THR:C	1.99	0.82
1:M:249:ASN:HB2	1:M:252:ALA:HB2	1.60	0.82
1:N:249:ASN:HB2	1:N:252:ALA:HB2	1.60	0.82
1:O:252:ALA:O	1:O:253:TRP:C	2.15	0.82
1:A:548:LYS:HZ2	1:A:601:GLN:HA	1.43	0.82
1:B:517:THR:O	1:B:520:GLN:N	2.13	0.82
1:C:186:CYS:O	1:C:249:ASN:ND2	2.12	0.82
1:C:457:ASP:OD1	1:C:587:ARG:HB2	1.80	0.82
1:D:505:SER:HG	1:D:513:SER:HG	1.26	0.82
1:D:875:LEU:CD1	1:D:911:PHE:CD2	2.24	0.82
1:E:249:ASN:HB2	1:E:252:ALA:HB2	1.60	0.82
1:H:252:ALA:O	1:H:253:TRP:C	2.15	0.82
1:K:457:ASP:OD1	1:K:587:ARG:HB2	1.80	0.82
1:L:389:ILE:HD13	1:L:446:HIS:HE2	1.42	0.82
1:L:413:LYS:HD3	1:L:422:ILE:O	1.79	0.82
1:M:517:THR:O	1:M:520:GLN:N	2.13	0.82
1:M:633:THR:HG21	1:M:642:THR:C	1.99	0.82
1:M:914:VAL:CG1	1:M:917:TYR:O	2.27	0.82
1:O:622:LEU:CB	1:O:634:ASP:HB2	2.09	0.82
1:D:186:CYS:O	1:D:249:ASN:ND2	2.12	0.82
1:D:457:ASP:OD1	1:D:587:ARG:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:389:ILE:HD13	1:E:446:HIS:HE2	1.42	0.82
1:F:517:THR:O	1:F:520:GLN:N	2.13	0.82
1:H:517:THR:O	1:H:520:GLN:N	2.13	0.82
1:I:378:SER:CA	1:I:422:ILE:HD12	2.09	0.82
1:I:457:ASP:OD1	1:I:587:ARG:HB2	1.80	0.82
1:K:186:CYS:O	1:K:249:ASN:ND2	2.12	0.82
1:L:186:CYS:O	1:L:249:ASN:ND2	2.12	0.82
1:N:252:ALA:O	1:N:254:ASN:N	2.13	0.82
1:O:249:ASN:HB2	1:O:252:ALA:HB2	1.60	0.82
1:O:517:THR:O	1:O:520:GLN:N	2.13	0.82
1:A:252:ALA:O	1:A:254:ASN:N	2.13	0.82
1:A:378:SER:CA	1:A:422:ILE:HD12	2.09	0.82
1:B:914:VAL:CG1	1:B:917:TYR:O	2.27	0.82
1:D:134:LEU:HD22	1:D:164:VAL:HG11	1.60	0.82
1:E:134:LEU:HD22	1:E:164:VAL:HG11	1.60	0.82
1:F:457:ASP:OD1	1:F:587:ARG:HB2	1.80	0.82
1:H:249:ASN:HB2	1:H:252:ALA:HB2	1.60	0.82
1:H:914:VAL:CG1	1:H:917:TYR:O	2.27	0.82
1:K:134:LEU:HD22	1:K:164:VAL:HG11	1.60	0.82
1:L:134:LEU:HD22	1:L:164:VAL:HG11	1.60	0.82
1:N:378:SER:CA	1:N:422:ILE:HD12	2.09	0.82
1:N:548:LYS:HZ2	1:N:601:GLN:HA	1.43	0.82
1:O:378:SER:CA	1:O:422:ILE:HD12	2.09	0.82
1:A:312:LEU:HD23	1:A:313:PRO:HD2	1.62	0.82
1:B:252:ALA:O	1:B:254:ASN:N	2.13	0.82
1:B:633:THR:HG21	1:B:643:TYR:HA	1.59	0.82
1:C:378:SER:CA	1:C:422:ILE:HD12	2.09	0.82
1:D:252:ALA:O	1:D:254:ASN:N	2.13	0.82
1:H:378:SER:CA	1:H:422:ILE:HD12	2.09	0.82
1:I:517:THR:O	1:I:520:GLN:N	2.13	0.82
1:J:914:VAL:CG1	1:J:917:TYR:O	2.27	0.82
1:K:875:LEU:CD1	1:K:911:PHE:CD2	2.23	0.82
1:L:517:THR:O	1:L:520:GLN:N	2.13	0.82
1:M:252:ALA:O	1:M:254:ASN:N	2.13	0.82
1:N:312:LEU:HD23	1:N:313:PRO:HD2	1.62	0.82
1:E:914:VAL:CG1	1:E:917:TYR:O	2.27	0.82
1:G:517:THR:O	1:G:520:GLN:N	2.13	0.82
1:H:492:LEU:HD23	1:H:562:LEU:HD23	1.62	0.82
1:K:252:ALA:O	1:K:254:ASN:N	2.13	0.82
1:K:517:THR:O	1:K:520:GLN:N	2.13	0.82
1:N:507:ALA:O	1:N:608:ASN:HB2	1.80	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:914:VAL:CG1	1:N:917:TYR:O	2.27	0.82
1:O:492:LEU:HD23	1:O:562:LEU:HD23	1.62	0.82
1:O:914:VAL:CG1	1:O:917:TYR:O	2.27	0.82
1:P:517:THR:O	1:P:520:GLN:N	2.13	0.82
1:A:507:ALA:O	1:A:608:ASN:HB2	1.80	0.82
1:A:914:VAL:CG1	1:A:917:TYR:O	2.27	0.82
1:C:517:THR:O	1:C:520:GLN:N	2.13	0.82
1:D:378:SER:CA	1:D:422:ILE:HD12	2.09	0.82
1:D:517:THR:O	1:D:520:GLN:N	2.13	0.82
1:E:252:ALA:O	1:E:254:ASN:N	2.13	0.82
1:E:457:ASP:OD1	1:E:587:ARG:HB2	1.80	0.82
1:H:252:ALA:O	1:H:254:ASN:N	2.13	0.82
1:J:134:LEU:HD22	1:J:164:VAL:HG11	1.60	0.82
1:J:249:ASN:HB2	1:J:252:ALA:HB2	1.60	0.82
1:J:457:ASP:OD1	1:J:587:ARG:HB2	1.80	0.82
1:M:633:THR:HG21	1:M:643:TYR:HA	1.59	0.82
1:O:507:ALA:O	1:O:608:ASN:HB2	1.80	0.82
1:F:378:SER:CA	1:F:422:ILE:HD12	2.09	0.81
1:I:413:LYS:HD3	1:I:422:ILE:O	1.79	0.81
1:J:252:ALA:O	1:J:254:ASN:N	2.13	0.81
1:J:389:ILE:HD13	1:J:446:HIS:HE2	1.42	0.81
1:K:378:SER:CA	1:K:422:ILE:HD12	2.09	0.81
1:L:604:ASN:HD22	1:L:929:VAL:H	1.28	0.81
1:O:186:CYS:O	1:O:249:ASN:ND2	2.12	0.81
1:O:252:ALA:O	1:O:254:ASN:N	2.13	0.81
1:P:252:ALA:O	1:P:253:TRP:C	2.15	0.81
1:B:186:CYS:O	1:B:249:ASN:ND2	2.12	0.81
1:C:604:ASN:HD22	1:C:929:VAL:H	1.28	0.81
1:H:186:CYS:O	1:H:249:ASN:ND2	2.12	0.81
1:K:413:LYS:HD3	1:K:422:ILE:O	1.79	0.81
1:M:186:CYS:O	1:M:249:ASN:ND2	2.12	0.81
1:N:633:THR:HG21	1:N:642:THR:C	1.99	0.81
1:A:633:THR:HG21	1:A:642:THR:C	1.99	0.81
1:C:633:THR:HG21	1:C:642:THR:C	1.99	0.81
1:D:413:LYS:HD3	1:D:422:ILE:O	1.79	0.81
1:D:633:THR:HG21	1:D:642:THR:C	1.99	0.81
1:F:413:LYS:HD3	1:F:422:ILE:O	1.79	0.81
1:F:508:TRP:CA	1:F:606:GLY:CA	2.48	0.81
1:G:252:ALA:O	1:G:253:TRP:C	2.15	0.81
1:H:507:ALA:O	1:H:608:ASN:HB2	1.80	0.81
1:K:507:ALA:O	1:K:608:ASN:HB2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:622:LEU:CB	1:K:634:ASP:HB2	2.09	0.81
1:K:633:THR:HG21	1:K:642:THR:C	1.99	0.81
1:L:252:ALA:O	1:L:254:ASN:N	2.13	0.81
1:L:875:LEU:HD11	1:L:911:PHE:HD2	1.34	0.81
1:P:492:LEU:HD23	1:P:562:LEU:HD23	1.62	0.81
1:B:134:LEU:HD22	1:B:164:VAL:HG11	1.60	0.81
1:F:252:ALA:O	1:F:253:TRP:C	2.15	0.81
1:G:492:LEU:HD23	1:G:562:LEU:HD23	1.62	0.81
1:O:312:LEU:HD23	1:O:313:PRO:HD2	1.62	0.81
1:A:413:LYS:HD3	1:A:422:ILE:O	1.79	0.81
1:A:508:TRP:CA	1:A:606:GLY:CA	2.48	0.81
1:C:194:GLU:OE2	1:D:216:ASN:ND2	2.14	0.81
1:D:507:ALA:O	1:D:608:ASN:HB2	1.80	0.81
1:D:622:LEU:CB	1:D:634:ASP:HB2	2.09	0.81
1:G:413:LYS:HD3	1:G:422:ILE:O	1.79	0.81
1:H:312:LEU:HD23	1:H:313:PRO:HD2	1.62	0.81
1:M:134:LEU:HD22	1:M:164:VAL:HG11	1.60	0.81
1:M:312:LEU:HD23	1:M:313:PRO:HD2	1.62	0.81
1:N:548:LYS:HZ2	1:N:601:GLN:CA	1.94	0.81
1:P:413:LYS:HD3	1:P:422:ILE:O	1.79	0.81
1:A:457:ASP:OD1	1:A:587:ARG:HB2	1.79	0.81
1:A:548:LYS:HZ2	1:A:601:GLN:CA	1.94	0.81
1:B:507:ALA:O	1:B:608:ASN:HB2	1.80	0.81
1:C:249:ASN:HB2	1:C:252:ALA:HB2	1.60	0.81
1:C:252:ALA:O	1:C:254:ASN:N	2.13	0.81
1:F:252:ALA:O	1:F:254:ASN:N	2.13	0.81
1:H:548:LYS:HZ2	1:H:601:GLN:CA	1.94	0.81
1:I:252:ALA:O	1:I:253:TRP:C	2.15	0.81
1:L:249:ASN:HB2	1:L:252:ALA:HB2	1.60	0.81
1:B:312:LEU:HD23	1:B:313:PRO:HD2	1.62	0.81
1:B:378:SER:CA	1:B:422:ILE:HD12	2.09	0.81
1:E:517:THR:O	1:E:520:GLN:N	2.13	0.81
1:I:508:TRP:CA	1:I:606:GLY:CA	2.48	0.81
1:J:517:THR:O	1:J:520:GLN:N	2.13	0.81
1:L:633:THR:HG21	1:L:642:THR:C	1.99	0.81
1:M:378:SER:CA	1:M:422:ILE:HD12	2.09	0.81
1:M:507:ALA:O	1:M:608:ASN:HB2	1.80	0.81
1:N:508:TRP:CA	1:N:606:GLY:CA	2.48	0.81
1:E:492:LEU:HD23	1:E:562:LEU:HD23	1.62	0.81
1:J:492:LEU:HD23	1:J:562:LEU:HD23	1.62	0.81
1:L:440:HIS:O	1:L:444:VAL:N	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:LYS:HD3	1:N:422:ILE:O	1.79	0.81
1:O:548:LYS:HZ2	1:O:601:GLN:CA	1.94	0.81
1:A:440:HIS:O	1:A:444:VAL:N	2.14	0.81
1:I:252:ALA:O	1:I:254:ASN:N	2.13	0.81
1:J:507:ALA:O	1:J:608:ASN:HB2	1.80	0.81
1:N:440:HIS:O	1:N:444:VAL:N	2.14	0.81
1:N:457:ASP:OD1	1:N:587:ARG:HB2	1.80	0.81
1:N:517:THR:O	1:N:520:GLN:N	2.13	0.81
1:A:517:THR:O	1:A:520:GLN:N	2.13	0.81
1:C:440:HIS:O	1:C:444:VAL:N	2.14	0.81
1:E:354:GLU:OE1	1:E:430:LYS:HE3	1.81	0.81
1:E:604:ASN:HD22	1:E:929:VAL:H	1.28	0.81
1:G:252:ALA:O	1:G:254:ASN:N	2.13	0.81
1:G:548:LYS:HZ2	1:G:601:GLN:HA	1.45	0.81
1:J:312:LEU:HD23	1:J:313:PRO:HD2	1.62	0.81
1:J:354:GLU:OE1	1:J:430:LYS:HE3	1.81	0.81
1:P:252:ALA:O	1:P:254:ASN:N	2.13	0.81
1:P:457:ASP:OD1	1:P:587:ARG:HB2	1.80	0.81
1:P:507:ALA:O	1:P:608:ASN:HB2	1.80	0.81
1:E:507:ALA:O	1:E:608:ASN:HB2	1.80	0.80
1:G:457:ASP:OD1	1:G:587:ARG:HB2	1.80	0.80
1:G:507:ALA:O	1:G:608:ASN:HB2	1.80	0.80
1:J:604:ASN:HD22	1:J:929:VAL:H	1.28	0.80
1:L:507:ALA:O	1:L:608:ASN:HB2	1.80	0.80
1:M:508:TRP:CA	1:M:606:GLY:CA	2.48	0.80
1:P:548:LYS:HZ2	1:P:601:GLN:HA	1.46	0.80
1:B:508:TRP:CA	1:B:606:GLY:CA	2.48	0.80
1:F:492:LEU:HD23	1:F:562:LEU:HD23	1.62	0.80
1:C:402:VAL:O	1:C:406:HIS:N	2.14	0.80
1:E:312:LEU:HD23	1:E:313:PRO:HD2	1.62	0.80
1:A:604:ASN:HD22	1:A:929:VAL:H	1.28	0.80
1:N:604:ASN:HD22	1:N:929:VAL:H	1.28	0.80
1:B:604:ASN:HD22	1:B:929:VAL:H	1.28	0.80
1:F:545:PHE:O	1:F:549:ILE:N	2.13	0.80
1:I:354:GLU:OE1	1:I:430:LYS:HE3	1.81	0.80
1:I:492:LEU:HD23	1:I:562:LEU:HD23	1.62	0.80
1:I:915:TYR:O	1:I:916:LYS:HB2	1.82	0.80
1:K:313:PRO:HG3	1:K:338:TRP:CE2	2.17	0.80
1:L:402:VAL:O	1:L:406:HIS:N	2.14	0.80
1:B:425:ILE:O	1:B:429:LEU:N	2.15	0.80
1:C:507:ALA:O	1:C:608:ASN:HB2	1.80	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:915:TYR:O	1:C:916:LYS:HB2	1.82	0.80
1:D:313:PRO:HG3	1:D:338:TRP:CE2	2.17	0.80
1:F:915:TYR:O	1:F:916:LYS:HB2	1.82	0.80
1:I:373:SER:HB3	1:I:433:LEU:CD1	2.12	0.80
1:M:425:ILE:O	1:M:429:LEU:N	2.15	0.80
1:D:312:LEU:HD23	1:D:313:PRO:HD2	1.62	0.80
1:E:915:TYR:O	1:E:916:LYS:HB2	1.82	0.80
1:F:373:SER:HB3	1:F:433:LEU:CD1	2.12	0.80
1:J:313:PRO:HG3	1:J:338:TRP:CE2	2.17	0.80
1:K:212:ASP:OD2	1:L:209:SER:OG	1.98	0.80
1:K:312:LEU:HD23	1:K:313:PRO:HD2	1.62	0.80
1:F:440:HIS:O	1:F:444:VAL:N	2.14	0.80
1:G:312:LEU:HD23	1:G:313:PRO:HD2	1.62	0.80
1:I:440:HIS:O	1:I:444:VAL:N	2.14	0.80
1:J:915:TYR:O	1:J:916:LYS:HB2	1.82	0.80
1:L:313:PRO:HG3	1:L:338:TRP:CE2	2.17	0.80
1:L:915:TYR:O	1:L:916:LYS:HB2	1.82	0.80
1:A:545:PHE:O	1:A:549:ILE:N	2.13	0.80
1:C:313:PRO:HG3	1:C:338:TRP:CE2	2.17	0.80
1:D:915:TYR:O	1:D:916:LYS:HB2	1.82	0.80
1:E:313:PRO:HG3	1:E:338:TRP:CE2	2.17	0.80
1:E:373:SER:HB3	1:E:433:LEU:CD1	2.12	0.80
1:E:508:TRP:HE3	1:E:927:GLN:O	1.65	0.80
1:F:209:SER:OG	1:G:212:ASP:OD2	1.98	0.80
1:F:312:LEU:HD23	1:F:313:PRO:HD2	1.62	0.80
1:F:354:GLU:OE1	1:F:430:LYS:HE3	1.81	0.80
1:G:354:GLU:OE1	1:G:430:LYS:HE3	1.81	0.80
1:G:373:SER:HB3	1:G:433:LEU:CD1	2.12	0.80
1:J:508:TRP:HE3	1:J:927:GLN:O	1.65	0.80
1:K:915:TYR:O	1:K:916:LYS:HB2	1.82	0.80
1:M:604:ASN:HD22	1:M:929:VAL:H	1.28	0.80
1:P:312:LEU:HD23	1:P:313:PRO:HD2	1.62	0.80
1:P:354:GLU:OE1	1:P:430:LYS:HE3	1.81	0.80
1:P:373:SER:HB3	1:P:433:LEU:CD1	2.12	0.80
1:I:545:PHE:O	1:I:549:ILE:N	2.13	0.80
1:J:373:SER:HB3	1:J:433:LEU:CD1	2.12	0.80
1:A:492:LEU:HD23	1:A:562:LEU:HD23	1.62	0.79
1:D:354:GLU:OE1	1:D:430:LYS:HE3	1.81	0.79
1:F:507:ALA:O	1:F:608:ASN:HB2	1.80	0.79
1:G:915:TYR:O	1:G:916:LYS:HB2	1.82	0.79
1:I:507:ALA:O	1:I:608:ASN:HB2	1.80	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:622:LEU:CB	1:J:634:ASP:HB2	2.09	0.79
1:K:354:GLU:OE1	1:K:430:LYS:HE3	1.81	0.79
1:N:545:PHE:O	1:N:549:ILE:N	2.13	0.79
1:O:314:ARG:O	1:O:315:GLU:CB	2.30	0.79
1:B:915:TYR:O	1:B:916:LYS:HB2	1.82	0.79
1:H:314:ARG:O	1:H:315:GLU:CB	2.30	0.79
1:N:492:LEU:HD23	1:N:562:LEU:HD23	1.62	0.79
1:O:373:SER:HB3	1:O:433:LEU:CD1	2.12	0.79
1:P:314:ARG:O	1:P:315:GLU:CB	2.30	0.79
1:P:915:TYR:O	1:P:916:LYS:HB2	1.82	0.79
1:B:402:VAL:O	1:B:406:HIS:N	2.14	0.79
1:D:373:SER:HB3	1:D:433:LEU:CD1	2.12	0.79
1:D:492:LEU:HD23	1:D:562:LEU:HD23	1.62	0.79
1:G:314:ARG:O	1:G:315:GLU:CB	2.30	0.79
1:I:312:LEU:HD23	1:I:313:PRO:HD2	1.62	0.79
1:K:492:LEU:HD23	1:K:562:LEU:HD23	1.62	0.79
1:M:402:VAL:O	1:M:406:HIS:N	2.14	0.79
1:M:915:TYR:O	1:M:916:LYS:HB2	1.82	0.79
1:A:403:ASN:ND2	1:H:333:ASP:OD2	2.14	0.79
1:C:314:ARG:O	1:C:315:GLU:CB	2.30	0.79
1:E:622:LEU:CB	1:E:634:ASP:HB2	2.09	0.79
1:F:313:PRO:HG3	1:F:338:TRP:CE2	2.17	0.79
1:I:313:PRO:HG3	1:I:338:TRP:CE2	2.17	0.79
1:K:314:ARG:O	1:K:315:GLU:CB	2.30	0.79
1:K:604:ASN:HD22	1:K:929:VAL:H	1.28	0.79
1:L:314:ARG:O	1:L:315:GLU:CB	2.30	0.79
1:P:443:ILE:HG21	1:P:477:ASN:HD22	1.48	0.79
1:B:313:PRO:HG3	1:B:338:TRP:CE2	2.17	0.79
1:B:373:SER:HB3	1:B:433:LEU:CD1	2.12	0.79
1:D:314:ARG:O	1:D:315:GLU:CB	2.30	0.79
1:G:443:ILE:HG21	1:G:477:ASN:HD22	1.48	0.79
1:G:548:LYS:HZ2	1:G:601:GLN:CA	1.95	0.79
1:H:373:SER:HB3	1:H:433:LEU:CD1	2.12	0.79
1:H:443:ILE:HG21	1:H:477:ASN:HD22	1.48	0.79
1:M:313:PRO:HG3	1:M:338:TRP:CE2	2.17	0.79
1:M:373:SER:HB3	1:M:433:LEU:CD1	2.12	0.79
1:M:442:SER:O	1:M:446:HIS:HD2	1.57	0.79
1:N:373:SER:HB3	1:N:433:LEU:CD1	2.12	0.79
1:O:443:ILE:HG21	1:O:477:ASN:HD22	1.48	0.79
1:G:389:ILE:HD13	1:G:446:HIS:HE2	1.42	0.79
1:A:314:ARG:O	1:A:315:GLU:CB	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:373:SER:HB3	1:A:433:LEU:CD1	2.12	0.79
1:A:443:ILE:HG21	1:A:477:ASN:HD22	1.48	0.79
1:E:508:TRP:CA	1:E:606:GLY:CA	2.48	0.79
1:H:354:GLU:OE1	1:H:430:LYS:HE3	1.81	0.79
1:H:508:TRP:HE3	1:H:927:GLN:O	1.65	0.79
1:K:373:SER:HB3	1:K:433:LEU:CD1	2.12	0.79
1:K:440:HIS:O	1:K:444:VAL:N	2.14	0.79
1:L:373:SER:HB3	1:L:433:LEU:CD1	2.12	0.79
1:N:314:ARG:O	1:N:315:GLU:CB	2.30	0.79
1:N:402:VAL:O	1:N:406:HIS:N	2.14	0.79
1:N:443:ILE:HG21	1:N:477:ASN:HD22	1.48	0.79
1:D:440:HIS:O	1:D:444:VAL:N	2.14	0.79
1:G:604:ASN:HD22	1:G:929:VAL:H	1.28	0.79
1:H:313:PRO:HG3	1:H:338:TRP:CE2	2.17	0.79
1:I:314:ARG:O	1:I:315:GLU:CB	2.30	0.79
1:L:312:LEU:HD23	1:L:313:PRO:HD2	1.61	0.79
1:M:354:GLU:OE1	1:M:430:LYS:HE3	1.81	0.79
1:O:354:GLU:OE1	1:O:430:LYS:HE3	1.81	0.79
1:P:313:PRO:HG3	1:P:338:TRP:CE2	2.17	0.79
1:P:548:LYS:HZ2	1:P:601:GLN:CA	1.96	0.79
1:P:604:ASN:HD22	1:P:929:VAL:H	1.28	0.79
1:A:313:PRO:HG3	1:A:338:TRP:CE2	2.17	0.79
1:B:354:GLU:OE1	1:B:430:LYS:HE3	1.82	0.79
1:C:312:LEU:HD23	1:C:313:PRO:HD2	1.62	0.79
1:D:425:ILE:O	1:D:429:LEU:N	2.15	0.79
1:D:604:ASN:HD22	1:D:929:VAL:H	1.28	0.79
1:G:545:PHE:O	1:G:549:ILE:N	2.13	0.79
1:H:425:ILE:O	1:H:429:LEU:N	2.15	0.79
1:I:508:TRP:HE3	1:I:927:GLN:O	1.65	0.79
1:J:508:TRP:CA	1:J:606:GLY:CA	2.48	0.79
1:K:20:GLU:O	1:K:24:VAL:N	2.16	0.79
1:K:425:ILE:O	1:K:429:LEU:N	2.15	0.79
1:L:354:GLU:OE1	1:L:430:LYS:HE3	1.81	0.79
1:L:492:LEU:HD23	1:L:562:LEU:HD23	1.62	0.79
1:L:545:PHE:O	1:L:549:ILE:N	2.13	0.79
1:M:492:LEU:HD23	1:M:562:LEU:HD23	1.62	0.79
1:O:403:ASN:ND2	1:P:333:ASP:OD2	2.16	0.79
1:O:425:ILE:O	1:O:429:LEU:N	2.15	0.79
1:P:440:HIS:O	1:P:444:VAL:N	2.14	0.79
1:A:354:GLU:OE1	1:A:430:LYS:HE3	1.81	0.79
1:C:373:SER:HB3	1:C:433:LEU:CD1	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:425:ILE:O	1:E:429:LEU:N	2.15	0.79
1:F:314:ARG:O	1:F:315:GLU:CB	2.30	0.79
1:G:313:PRO:HG3	1:G:338:TRP:CE2	2.17	0.79
1:G:440:HIS:O	1:G:444:VAL:N	2.14	0.79
1:H:604:ASN:HD22	1:H:929:VAL:H	1.28	0.79
1:M:440:HIS:O	1:M:444:VAL:N	2.14	0.79
1:N:313:PRO:HG3	1:N:338:TRP:CE2	2.17	0.79
1:N:354:GLU:OE1	1:N:430:LYS:HE3	1.81	0.79
1:P:402:VAL:O	1:P:406:HIS:N	2.14	0.79
1:P:545:PHE:O	1:P:549:ILE:N	2.13	0.79
1:A:402:VAL:O	1:A:406:HIS:N	2.14	0.78
1:B:492:LEU:HD23	1:B:562:LEU:HD23	1.62	0.78
1:C:545:PHE:O	1:C:549:ILE:N	2.13	0.78
1:D:20:GLU:O	1:D:24:VAL:N	2.16	0.78
1:G:402:VAL:O	1:G:406:HIS:N	2.14	0.78
1:J:425:ILE:O	1:J:429:LEU:N	2.15	0.78
1:M:548:LYS:HZ2	1:M:601:GLN:HA	1.48	0.78
1:O:508:TRP:HE3	1:O:927:GLN:O	1.66	0.78
1:C:492:LEU:HD23	1:C:562:LEU:HD23	1.62	0.78
1:H:20:GLU:O	1:H:24:VAL:N	2.16	0.78
1:O:20:GLU:O	1:O:24:VAL:N	2.16	0.78
1:O:313:PRO:HG3	1:O:338:TRP:CE2	2.17	0.78
1:O:604:ASN:HD22	1:O:929:VAL:H	1.28	0.78
1:P:389:ILE:HD13	1:P:446:HIS:HE2	1.42	0.78
1:B:440:HIS:O	1:B:444:VAL:N	2.14	0.78
1:C:354:GLU:OE1	1:C:430:LYS:HE3	1.82	0.78
1:G:20:GLU:O	1:G:24:VAL:N	2.16	0.78
1:P:20:GLU:O	1:P:24:VAL:N	2.16	0.78
1:N:508:TRP:HE3	1:N:927:GLN:O	1.65	0.78
1:D:508:TRP:HE3	1:D:927:GLN:O	1.65	0.78
1:I:425:ILE:O	1:I:429:LEU:N	2.15	0.78
1:K:508:TRP:HE3	1:K:927:GLN:O	1.65	0.78
1:M:403:ASN:ND2	1:N:333:ASP:OD2	2.17	0.78
1:O:915:TYR:O	1:O:916:LYS:HB2	1.82	0.78
1:A:508:TRP:HE3	1:A:927:GLN:O	1.65	0.78
1:B:443:ILE:HG21	1:B:477:ASN:HD22	1.48	0.78
1:F:443:ILE:HG21	1:F:477:ASN:HD22	1.48	0.78
1:F:508:TRP:HE3	1:F:927:GLN:O	1.65	0.78
1:H:915:TYR:O	1:H:916:LYS:HB2	1.82	0.78
1:K:402:VAL:O	1:K:406:HIS:N	2.14	0.78
1:M:443:ILE:HG21	1:M:477:ASN:HD22	1.48	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:425:ILE:O	1:F:429:LEU:N	2.15	0.78
1:G:157:LYS:NZ	2:G:1501:DTP:O3B	2.17	0.78
1:H:157:LYS:NZ	2:H:1501:DTP:O3B	2.17	0.78
1:O:157:LYS:NZ	2:O:1501:DTP:O3B	2.17	0.78
1:P:157:LYS:NZ	2:P:1501:DTP:O3B	2.17	0.78
1:D:402:VAL:O	1:D:406:HIS:N	2.14	0.78
1:I:604:ASN:HD22	1:I:929:VAL:H	1.28	0.78
1:N:425:ILE:O	1:N:429:LEU:N	2.15	0.78
1:B:187:ASN:HA	1:B:249:ASN:HD21	1.49	0.78
1:B:458:LEU:HD23	1:B:459:ILE:H	1.49	0.78
1:H:373:SER:OG	1:H:433:LEU:HD12	1.84	0.78
1:I:443:ILE:HG21	1:I:477:ASN:HD22	1.48	0.78
1:L:20:GLU:O	1:L:24:VAL:N	2.16	0.78
1:M:314:ARG:O	1:M:315:GLU:CB	2.30	0.78
1:M:458:LEU:HD23	1:M:459:ILE:H	1.49	0.78
1:O:373:SER:OG	1:O:433:LEU:HD12	1.84	0.78
1:P:425:ILE:O	1:P:429:LEU:N	2.15	0.78
1:A:425:ILE:O	1:A:429:LEU:N	2.15	0.78
1:B:314:ARG:O	1:B:315:GLU:CB	2.30	0.78
1:G:425:ILE:O	1:G:429:LEU:N	2.15	0.78
1:M:187:ASN:HA	1:M:249:ASN:HD21	1.49	0.78
1:B:301:LEU:HD21	1:B:313:PRO:CG	2.14	0.77
1:C:187:ASN:HA	1:C:249:ASN:HD21	1.50	0.77
1:C:333:ASP:OD2	1:D:403:ASN:ND2	2.17	0.77
1:F:20:GLU:O	1:F:24:VAL:N	2.16	0.77
1:M:301:LEU:HD21	1:M:313:PRO:CG	2.14	0.77
1:N:915:TYR:O	1:N:916:LYS:HB2	1.82	0.77
1:A:301:LEU:HD21	1:A:313:PRO:CG	2.14	0.77
1:C:20:GLU:O	1:C:24:VAL:N	2.16	0.77
1:C:458:LEU:HD23	1:C:459:ILE:H	1.49	0.77
1:E:545:PHE:O	1:E:549:ILE:N	2.13	0.77
1:F:604:ASN:HD22	1:F:929:VAL:H	1.28	0.77
1:L:187:ASN:HA	1:L:249:ASN:HD21	1.49	0.77
1:N:20:GLU:O	1:N:24:VAL:N	2.16	0.77
1:N:157:LYS:NZ	2:N:1501:DTP:O3B	2.17	0.77
1:N:301:LEU:HD21	1:N:313:PRO:CG	2.14	0.77
1:A:157:LYS:NZ	2:A:1501:DTP:O3B	2.17	0.77
1:A:915:TYR:O	1:A:916:LYS:HB2	1.82	0.77
1:E:314:ARG:O	1:E:315:GLU:CB	2.30	0.77
1:H:545:PHE:O	1:H:549:ILE:N	2.13	0.77
1:J:314:ARG:O	1:J:315:GLU:CB	2.30	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:LEU:HD23	1:L:459:ILE:H	1.49	0.77
1:L:508:TRP:CA	1:L:606:GLY:CA	2.48	0.77
1:M:548:LYS:HZ2	1:M:601:GLN:CA	1.97	0.77
1:A:20:GLU:O	1:A:24:VAL:N	2.16	0.77
1:A:458:LEU:HD23	1:A:459:ILE:H	1.49	0.77
1:C:313:PRO:CG	1:C:338:TRP:CZ2	2.68	0.77
1:E:443:ILE:HG21	1:E:477:ASN:HD22	1.48	0.77
1:F:122:LYS:HG3	1:G:276:SER:CB	2.15	0.77
1:G:373:SER:OG	1:G:433:LEU:HD12	1.84	0.77
1:J:915:TYR:CZ	1:J:916:LYS:HE3	2.20	0.77
1:O:545:PHE:O	1:O:549:ILE:N	2.13	0.77
1:P:373:SER:OG	1:P:433:LEU:HD12	1.84	0.77
1:B:548:LYS:HZ2	1:B:601:GLN:HA	1.49	0.77
1:D:508:TRP:CE3	1:D:927:GLN:C	2.58	0.77
1:F:157:LYS:NZ	2:F:1501:DTP:O3B	2.17	0.77
1:F:458:LEU:HD23	1:F:459:ILE:H	1.49	0.77
1:H:313:PRO:CG	1:H:338:TRP:CZ2	2.67	0.77
1:I:20:GLU:O	1:I:24:VAL:N	2.16	0.77
1:J:545:PHE:O	1:J:549:ILE:N	2.13	0.77
1:M:313:PRO:CG	1:M:338:TRP:CZ2	2.67	0.77
1:A:313:PRO:CG	1:A:338:TRP:CZ2	2.68	0.77
1:B:313:PRO:CG	1:B:338:TRP:CZ2	2.68	0.77
1:C:508:TRP:CE3	1:C:927:GLN:C	2.58	0.77
1:E:187:ASN:HA	1:E:249:ASN:HD21	1.49	0.77
1:E:915:TYR:CZ	1:E:916:LYS:HE3	2.20	0.77
1:F:548:LYS:HZ2	1:F:601:GLN:HA	1.48	0.77
1:G:458:LEU:HD23	1:G:459:ILE:H	1.49	0.77
1:I:458:LEU:HD23	1:I:459:ILE:H	1.49	0.77
1:L:313:PRO:CG	1:L:338:TRP:CZ2	2.68	0.77
1:L:915:TYR:CZ	1:L:916:LYS:HE3	2.20	0.77
1:N:187:ASN:HA	1:N:249:ASN:HD21	1.49	0.77
1:N:313:PRO:CG	1:N:338:TRP:CZ2	2.67	0.77
1:N:373:SER:OG	1:N:433:LEU:HD12	1.84	0.77
1:N:458:LEU:HD23	1:N:459:ILE:H	1.50	0.77
1:O:313:PRO:CG	1:O:338:TRP:CZ2	2.68	0.77
1:P:313:PRO:CG	1:P:338:TRP:CZ2	2.67	0.77
1:A:187:ASN:HA	1:A:249:ASN:HD21	1.49	0.77
1:A:373:SER:OG	1:A:433:LEU:HD12	1.84	0.77
1:B:508:TRP:CE3	1:B:927:GLN:C	2.58	0.77
1:C:508:TRP:CA	1:C:606:GLY:CA	2.48	0.77
1:C:915:TYR:CZ	1:C:916:LYS:HE3	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:915:TYR:CZ	1:D:916:LYS:HE3	2.20	0.77
1:F:402:VAL:O	1:F:406:HIS:N	2.14	0.77
1:F:548:LYS:HZ2	1:F:601:GLN:CA	1.97	0.77
1:G:313:PRO:CG	1:G:338:TRP:CZ2	2.68	0.77
1:I:157:LYS:NZ	2:I:1501:DTP:O3B	2.17	0.77
1:J:187:ASN:HA	1:J:249:ASN:HD21	1.49	0.77
1:K:915:TYR:CZ	1:K:916:LYS:HE3	2.20	0.77
1:M:508:TRP:CE3	1:M:927:GLN:C	2.58	0.77
1:B:1169:ILE:HD11	1:B:1172:CYS:HB2	1.67	0.77
1:C:157:LYS:NZ	2:C:1501:DTP:O3B	2.17	0.77
1:C:301:LEU:HD21	1:C:313:PRO:CG	2.14	0.77
1:E:313:PRO:CG	1:E:338:TRP:HZ2	1.98	0.77
1:E:440:HIS:O	1:E:444:VAL:N	2.14	0.77
1:F:187:ASN:HA	1:F:249:ASN:HD21	1.49	0.77
1:F:301:LEU:HD21	1:F:313:PRO:CG	2.14	0.77
1:H:458:LEU:HD23	1:H:459:ILE:H	1.49	0.77
1:I:301:LEU:HD21	1:I:313:PRO:CG	2.14	0.77
1:J:313:PRO:CG	1:J:338:TRP:HZ2	1.98	0.77
1:J:440:HIS:O	1:J:444:VAL:N	2.14	0.77
1:J:443:ILE:HG21	1:J:477:ASN:HD22	1.48	0.77
1:K:157:LYS:NZ	2:K:1501:DTP:O3B	2.17	0.77
1:L:157:LYS:NZ	2:L:1501:DTP:O3B	2.17	0.77
1:L:508:TRP:CE3	1:L:927:GLN:C	2.58	0.77
1:O:301:LEU:HD21	1:O:313:PRO:CG	2.14	0.77
1:O:440:HIS:O	1:O:444:VAL:N	2.14	0.77
1:O:458:LEU:HD23	1:O:459:ILE:H	1.49	0.77
1:P:458:LEU:HD23	1:P:459:ILE:H	1.49	0.77
1:P:508:TRP:HE3	1:P:927:GLN:O	1.65	0.77
1:B:633:THR:CG2	1:B:643:TYR:HA	2.15	0.77
1:D:157:LYS:NZ	2:D:1501:DTP:O3B	2.17	0.77
1:D:313:PRO:CG	1:D:338:TRP:CZ2	2.68	0.77
1:G:508:TRP:HE3	1:G:927:GLN:O	1.65	0.77
1:H:301:LEU:HD21	1:H:313:PRO:CG	2.14	0.77
1:I:187:ASN:HA	1:I:249:ASN:HD21	1.49	0.77
1:K:443:ILE:HG21	1:K:477:ASN:HD22	1.48	0.77
1:L:443:ILE:HG21	1:L:477:ASN:HD22	1.48	0.77
1:M:915:TYR:CZ	1:M:916:LYS:HE3	2.20	0.77
1:N:633:THR:CG2	1:N:643:TYR:HA	2.15	0.77
1:A:209:SER:OG	1:B:212:ASP:OD2	2.03	0.77
1:A:508:TRP:CE3	1:A:927:GLN:C	2.58	0.77
1:A:633:THR:CG2	1:A:643:TYR:HA	2.15	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:463:LEU:HB3	1:B:467:PHE:CD2	2.20	0.77
1:C:1169:ILE:HD11	1:C:1172:CYS:HB2	1.67	0.77
1:D:443:ILE:HG21	1:D:477:ASN:HD22	1.48	0.77
1:D:1169:ILE:HD11	1:D:1172:CYS:HB2	1.67	0.77
1:E:157:LYS:NZ	2:E:1501:DTP:O3B	2.17	0.77
1:F:633:THR:CG2	1:F:643:TYR:HA	2.15	0.77
1:G:508:TRP:CE3	1:G:927:GLN:C	2.58	0.77
1:I:403:ASN:ND2	1:J:333:ASP:OD2	2.17	0.77
1:I:548:LYS:HZ2	1:I:601:GLN:CA	1.97	0.77
1:J:157:LYS:NZ	2:J:1501:DTP:O3B	2.17	0.77
1:J:402:VAL:O	1:J:406:HIS:N	2.14	0.77
1:K:313:PRO:CG	1:K:338:TRP:CZ2	2.68	0.77
1:K:313:PRO:CG	1:K:338:TRP:HZ2	1.98	0.77
1:K:633:THR:CG2	1:K:643:TYR:HA	2.15	0.77
1:K:1169:ILE:HD11	1:K:1172:CYS:HB2	1.67	0.77
1:M:1169:ILE:HD11	1:M:1172:CYS:HB2	1.67	0.77
1:B:915:TYR:CZ	1:B:916:LYS:HE3	2.20	0.76
1:D:313:PRO:CG	1:D:338:TRP:HZ2	1.98	0.76
1:D:633:THR:CG2	1:D:643:TYR:HA	2.15	0.76
1:G:127:ARG:HE	1:G:130:PRO:HG3	1.51	0.76
1:G:301:LEU:HD21	1:G:313:PRO:CG	2.14	0.76
1:G:633:THR:CG2	1:G:643:TYR:HA	2.15	0.76
1:I:548:LYS:HZ2	1:I:601:GLN:HA	1.48	0.76
1:I:633:THR:CG2	1:I:643:TYR:HA	2.15	0.76
1:L:1169:ILE:HD11	1:L:1172:CYS:HB2	1.67	0.76
1:M:463:LEU:HB3	1:M:467:PHE:CD2	2.20	0.76
1:M:633:THR:CG2	1:M:643:TYR:HA	2.15	0.76
1:N:508:TRP:CE3	1:N:927:GLN:C	2.58	0.76
1:P:313:PRO:CG	1:P:338:TRP:HZ2	1.98	0.76
1:P:633:THR:CG2	1:P:643:TYR:HA	2.15	0.76
1:A:1169:ILE:HD11	1:A:1172:CYS:HB2	1.67	0.76
1:C:633:THR:CG2	1:C:643:TYR:HA	2.15	0.76
1:D:508:TRP:CA	1:D:606:GLY:CA	2.48	0.76
1:E:301:LEU:HD21	1:E:313:PRO:CG	2.14	0.76
1:E:402:VAL:O	1:E:406:HIS:N	2.14	0.76
1:F:915:TYR:CZ	1:F:916:LYS:HE3	2.20	0.76
1:G:463:LEU:HB3	1:G:467:PHE:CD2	2.20	0.76
1:G:915:TYR:CZ	1:G:916:LYS:HE3	2.20	0.76
1:H:127:ARG:HE	1:H:130:PRO:HG3	1.51	0.76
1:H:440:HIS:O	1:H:444:VAL:N	2.14	0.76
1:H:633:THR:CG2	1:H:643:TYR:HA	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:560:ASP:HA	1:J:592:ASN:HD21	1.50	0.76
1:L:301:LEU:HD21	1:L:313:PRO:CG	2.14	0.76
1:L:633:THR:CG2	1:L:643:TYR:HA	2.15	0.76
1:P:301:LEU:HD21	1:P:313:PRO:CG	2.14	0.76
1:P:463:LEU:HB3	1:P:467:PHE:CD2	2.20	0.76
1:B:157:LYS:NZ	2:B:1501:DTP:O3B	2.17	0.76
1:B:313:PRO:CG	1:B:338:TRP:HZ2	1.98	0.76
1:B:548:LYS:HZ2	1:B:601:GLN:CA	1.98	0.76
1:C:443:ILE:HG21	1:C:477:ASN:HD22	1.48	0.76
1:D:127:ARG:HE	1:D:130:PRO:HG3	1.51	0.76
1:E:458:LEU:HD23	1:E:459:ILE:H	1.49	0.76
1:E:560:ASP:HA	1:E:592:ASN:HD21	1.50	0.76
1:H:915:TYR:CZ	1:H:916:LYS:HE3	2.20	0.76
1:J:548:LYS:HZ2	1:J:601:GLN:HA	1.51	0.76
1:L:463:LEU:HB3	1:L:467:PHE:CD2	2.20	0.76
1:M:313:PRO:CG	1:M:338:TRP:HZ2	1.98	0.76
1:N:127:ARG:HE	1:N:130:PRO:HG3	1.51	0.76
1:N:1169:ILE:HD11	1:N:1172:CYS:HB2	1.67	0.76
1:O:127:ARG:HE	1:O:130:PRO:HG3	1.51	0.76
1:O:633:THR:CG2	1:O:643:TYR:HA	2.15	0.76
1:O:915:TYR:CZ	1:O:916:LYS:HE3	2.20	0.76
1:P:187:ASN:HA	1:P:249:ASN:HD21	1.49	0.76
1:P:508:TRP:CA	1:P:606:GLY:CA	2.48	0.76
1:P:915:TYR:CZ	1:P:916:LYS:HE3	2.20	0.76
1:A:127:ARG:HE	1:A:130:PRO:HG3	1.51	0.76
1:A:915:TYR:CZ	1:A:916:LYS:HE3	2.20	0.76
1:C:425:ILE:O	1:C:429:LEU:N	2.15	0.76
1:C:463:LEU:HB3	1:C:467:PHE:CD2	2.20	0.76
1:D:301:LEU:HD21	1:D:313:PRO:CG	2.14	0.76
1:E:548:LYS:HZ2	1:E:601:GLN:HA	1.51	0.76
1:G:313:PRO:CG	1:G:338:TRP:HZ2	1.98	0.76
1:G:508:TRP:CA	1:G:606:GLY:CA	2.48	0.76
1:H:313:PRO:CG	1:H:338:TRP:HZ2	1.98	0.76
1:J:301:LEU:HD21	1:J:313:PRO:CG	2.14	0.76
1:K:301:LEU:HD21	1:K:313:PRO:CG	2.14	0.76
1:K:508:TRP:CE3	1:K:927:GLN:C	2.58	0.76
1:M:157:LYS:NZ	2:M:1501:DTP:O3B	2.17	0.76
1:M:508:TRP:HE3	1:M:927:GLN:O	1.65	0.76
1:N:403:ASN:ND2	1:O:333:ASP:OD2	2.18	0.76
1:N:915:TYR:CZ	1:N:916:LYS:HE3	2.20	0.76
1:O:313:PRO:CG	1:O:338:TRP:HZ2	1.98	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:518:LEU:HD12	1:O:518:LEU:H	1.51	0.76
1:P:127:ARG:HE	1:P:130:PRO:HG3	1.51	0.76
1:A:463:LEU:HB3	1:A:467:PHE:CD2	2.20	0.76
1:C:373:SER:OG	1:C:433:LEU:HD12	1.84	0.76
1:C:560:ASP:HA	1:C:592:ASN:HD21	1.50	0.76
1:E:313:PRO:CG	1:E:338:TRP:CZ2	2.68	0.76
1:E:1169:ILE:HD11	1:E:1172:CYS:HB2	1.67	0.76
1:F:122:LYS:HG3	1:G:276:SER:HB2	1.66	0.76
1:F:313:PRO:CG	1:F:338:TRP:CZ2	2.67	0.76
1:F:373:SER:OG	1:F:433:LEU:HD12	1.84	0.76
1:G:187:ASN:HA	1:G:249:ASN:HD21	1.49	0.76
1:H:187:ASN:HA	1:H:249:ASN:HD21	1.49	0.76
1:H:518:LEU:H	1:H:518:LEU:HD12	1.51	0.76
1:I:915:TYR:CZ	1:I:916:LYS:HE3	2.20	0.76
1:J:313:PRO:CG	1:J:338:TRP:CZ2	2.68	0.76
1:J:1169:ILE:HD11	1:J:1172:CYS:HB2	1.67	0.76
1:K:127:ARG:HE	1:K:130:PRO:HG3	1.51	0.76
1:K:508:TRP:CA	1:K:606:GLY:CA	2.48	0.76
1:N:463:LEU:HB3	1:N:467:PHE:CD2	2.20	0.76
1:O:187:ASN:HA	1:O:249:ASN:HD21	1.49	0.76
1:B:508:TRP:HE3	1:B:927:GLN:O	1.65	0.76
1:D:187:ASN:HA	1:D:249:ASN:HD21	1.49	0.76
1:F:508:TRP:CE3	1:F:927:GLN:C	2.58	0.76
1:I:463:LEU:HB3	1:I:467:PHE:CD2	2.20	0.76
1:L:127:ARG:HE	1:L:130:PRO:HG3	1.51	0.76
1:P:508:TRP:CE3	1:P:927:GLN:C	2.58	0.76
1:B:560:ASP:HA	1:B:592:ASN:HD21	1.50	0.76
1:C:127:ARG:HE	1:C:130:PRO:HG3	1.51	0.76
1:E:548:LYS:HZ2	1:E:601:GLN:CA	1.99	0.76
1:F:127:ARG:HE	1:F:130:PRO:HG3	1.51	0.76
1:F:313:PRO:CG	1:F:338:TRP:HZ2	1.98	0.76
1:I:508:TRP:CE3	1:I:927:GLN:C	2.58	0.76
1:J:458:LEU:HD23	1:J:459:ILE:H	1.50	0.76
1:J:548:LYS:HZ2	1:J:601:GLN:CA	1.99	0.76
1:J:633:THR:CG2	1:J:643:TYR:HA	2.15	0.76
1:K:276:SER:CB	1:L:121:ALA:HB1	2.12	0.76
1:K:458:LEU:HD23	1:K:459:ILE:H	1.49	0.76
1:D:458:LEU:HD23	1:D:459:ILE:H	1.50	0.76
1:E:633:THR:CG2	1:E:643:TYR:HA	2.15	0.76
1:G:518:LEU:HD12	1:G:518:LEU:H	1.51	0.76
1:H:560:ASP:HA	1:H:592:ASN:HD21	1.50	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:425:ILE:O	1:L:429:LEU:N	2.15	0.76
1:M:560:ASP:HA	1:M:592:ASN:HD21	1.50	0.76
1:P:518:LEU:H	1:P:518:LEU:HD12	1.51	0.76
1:P:560:ASP:HA	1:P:592:ASN:HD21	1.50	0.76
1:A:560:ASP:HA	1:A:592:ASN:HD21	1.50	0.76
1:B:20:GLU:O	1:B:24:VAL:N	2.16	0.76
1:E:373:SER:OG	1:E:433:LEU:HD12	1.84	0.76
1:G:560:ASP:HA	1:G:592:ASN:HD21	1.50	0.76
1:H:508:TRP:CA	1:H:606:GLY:CA	2.48	0.76
1:I:127:ARG:HE	1:I:130:PRO:HG3	1.51	0.76
1:I:313:PRO:CG	1:I:338:TRP:CZ2	2.68	0.76
1:J:373:SER:OG	1:J:433:LEU:HD12	1.84	0.76
1:K:187:ASN:HA	1:K:249:ASN:HD21	1.49	0.76
1:L:373:SER:OG	1:L:433:LEU:HD12	1.84	0.76
1:M:20:GLU:O	1:M:24:VAL:N	2.16	0.76
1:F:463:LEU:HB3	1:F:467:PHE:CD2	2.20	0.76
1:F:545:PHE:HA	1:F:548:LYS:HB2	1.68	0.76
1:K:463:LEU:HB3	1:K:467:PHE:CD2	2.20	0.76
1:L:560:ASP:HA	1:L:592:ASN:HD21	1.50	0.76
1:M:373:SER:OG	1:M:433:LEU:HD12	1.84	0.76
1:P:545:PHE:HA	1:P:548:LYS:HB2	1.68	0.76
1:D:463:LEU:HB3	1:D:467:PHE:CD2	2.20	0.75
1:D:545:PHE:HA	1:D:548:LYS:HB2	1.68	0.75
1:D:560:ASP:HA	1:D:592:ASN:HD21	1.50	0.75
1:E:20:GLU:O	1:E:24:VAL:N	2.16	0.75
1:F:560:ASP:HA	1:F:592:ASN:HD21	1.50	0.75
1:G:333:ASP:OD2	1:H:403:ASN:ND2	2.19	0.75
1:H:508:TRP:CE3	1:H:927:GLN:C	2.58	0.75
1:H:1169:ILE:HD11	1:H:1172:CYS:HB2	1.67	0.75
1:I:373:SER:OG	1:I:433:LEU:HD12	1.84	0.75
1:M:127:ARG:HE	1:M:130:PRO:HG3	1.51	0.75
1:N:146:ASN:HD22	1:N:280:THR:HG22	1.51	0.75
1:N:560:ASP:HA	1:N:592:ASN:HD21	1.50	0.75
1:O:508:TRP:CE3	1:O:927:GLN:C	2.58	0.75
1:O:560:ASP:HA	1:O:592:ASN:HD21	1.50	0.75
1:B:127:ARG:HE	1:B:130:PRO:HG3	1.51	0.75
1:G:545:PHE:HA	1:G:548:LYS:HB2	1.69	0.75
1:I:333:ASP:OD2	1:P:403:ASN:ND2	2.18	0.75
1:I:545:PHE:HA	1:I:548:LYS:HB2	1.68	0.75
1:N:518:LEU:H	1:N:518:LEU:HD12	1.51	0.75
1:A:146:ASN:HD22	1:A:280:THR:HG22	1.51	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:373:SER:OG	1:B:433:LEU:HD12	1.84	0.75
1:E:545:PHE:HA	1:E:548:LYS:HB2	1.69	0.75
1:I:560:ASP:HA	1:I:592:ASN:HD21	1.50	0.75
1:J:127:ARG:HE	1:J:130:PRO:HG3	1.51	0.75
1:K:545:PHE:HA	1:K:548:LYS:HB2	1.69	0.75
1:O:402:VAL:O	1:O:406:HIS:N	2.14	0.75
1:O:1169:ILE:HD11	1:O:1172:CYS:HB2	1.67	0.75
1:E:508:TRP:CE3	1:E:927:GLN:C	2.58	0.75
1:I:402:VAL:O	1:I:406:HIS:N	2.14	0.75
1:J:545:PHE:HA	1:J:548:LYS:HB2	1.69	0.75
1:K:373:SER:OG	1:K:433:LEU:HD12	1.84	0.75
1:L:545:PHE:HA	1:L:548:LYS:HB2	1.68	0.75
1:O:146:ASN:HD22	1:O:280:THR:HG22	1.51	0.75
1:O:508:TRP:CA	1:O:606:GLY:CA	2.48	0.75
1:C:548:LYS:NZ	1:C:601:GLN:HA	2.01	0.75
1:H:146:ASN:HD22	1:H:280:THR:HG22	1.51	0.75
1:H:463:LEU:HB3	1:H:467:PHE:CD2	2.20	0.75
1:J:20:GLU:O	1:J:24:VAL:N	2.16	0.75
1:K:560:ASP:HA	1:K:592:ASN:HD21	1.50	0.75
1:N:313:PRO:CG	1:N:338:TRP:HZ2	1.98	0.75
1:O:463:LEU:HB3	1:O:467:PHE:CD2	2.20	0.75
1:A:518:LEU:H	1:A:518:LEU:HD12	1.51	0.75
1:B:146:ASN:HD22	1:B:280:THR:HG22	1.51	0.75
1:D:548:LYS:NZ	1:D:601:GLN:HA	2.01	0.75
1:F:1169:ILE:HD11	1:F:1172:CYS:HB2	1.67	0.75
1:H:402:VAL:O	1:H:406:HIS:N	2.14	0.75
1:H:545:PHE:HA	1:H:548:LYS:HB2	1.69	0.75
1:J:508:TRP:CE3	1:J:927:GLN:C	2.58	0.75
1:M:146:ASN:HD22	1:M:280:THR:HG22	1.51	0.75
1:M:545:PHE:HA	1:M:548:LYS:HB2	1.69	0.75
1:O:545:PHE:HA	1:O:548:LYS:HB2	1.69	0.75
1:A:313:PRO:CG	1:A:338:TRP:HZ2	1.98	0.75
1:B:545:PHE:HA	1:B:548:LYS:HB2	1.69	0.75
1:C:545:PHE:HA	1:C:548:LYS:HB2	1.69	0.75
1:D:373:SER:OG	1:D:433:LEU:HD12	1.84	0.75
1:E:463:LEU:HB3	1:E:467:PHE:CD2	2.20	0.75
1:I:1169:ILE:HD11	1:I:1172:CYS:HB2	1.67	0.75
1:J:463:LEU:HB3	1:J:467:PHE:CD2	2.20	0.75
1:L:508:TRP:HE3	1:L:927:GLN:O	1.65	0.75
1:B:548:LYS:NZ	1:B:601:GLN:HA	2.01	0.75
1:D:505:SER:OG	1:D:513:SER:OG	2.05	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:548:LYS:HA	1:D:602:ILE:O	1.87	0.75
1:E:127:ARG:HE	1:E:130:PRO:HG3	1.51	0.75
1:F:518:LEU:H	1:F:518:LEU:HD12	1.51	0.75
1:K:403:ASN:ND2	1:L:333:ASP:OD2	2.20	0.75
1:K:548:LYS:HA	1:K:602:ILE:O	1.87	0.75
1:K:548:LYS:NZ	1:K:601:GLN:HA	2.01	0.75
1:L:313:PRO:CG	1:L:338:TRP:HZ2	1.98	0.74
1:M:548:LYS:NZ	1:M:601:GLN:HA	2.01	0.74
1:A:545:PHE:HA	1:A:548:LYS:HB2	1.68	0.74
1:E:548:LYS:NZ	1:E:601:GLN:HA	2.01	0.74
1:I:902:ILE:HD13	1:I:930:HIS:HE1	1.52	0.74
1:J:902:ILE:HD13	1:J:930:HIS:HE1	1.53	0.74
1:K:505:SER:OG	1:K:513:SER:OG	2.05	0.74
1:L:548:LYS:NZ	1:L:601:GLN:HA	2.01	0.74
1:O:548:LYS:NZ	1:O:601:GLN:HA	2.01	0.74
1:P:146:ASN:HD22	1:P:280:THR:HG22	1.51	0.74
1:C:313:PRO:CG	1:C:338:TRP:HZ2	1.98	0.74
1:E:119:VAL:HG23	1:E:120:PHE:H	1.53	0.74
1:E:902:ILE:HD13	1:E:930:HIS:HE1	1.53	0.74
1:G:146:ASN:HD22	1:G:280:THR:HG22	1.51	0.74
1:G:492:LEU:HD23	1:G:562:LEU:CD2	2.17	0.74
1:H:548:LYS:NZ	1:H:601:GLN:HA	2.01	0.74
1:J:548:LYS:NZ	1:J:601:GLN:HA	2.01	0.74
1:L:548:LYS:HZ2	1:L:601:GLN:HA	1.52	0.74
1:C:508:TRP:HE3	1:C:927:GLN:O	1.65	0.74
1:C:548:LYS:HZ2	1:C:601:GLN:HA	1.52	0.74
1:F:902:ILE:HD13	1:F:930:HIS:HE1	1.53	0.74
1:J:119:VAL:HG23	1:J:120:PHE:H	1.53	0.74
1:L:146:ASN:HD22	1:L:280:THR:HG22	1.51	0.74
1:N:545:PHE:HA	1:N:548:LYS:HB2	1.68	0.74
1:P:492:LEU:HD23	1:P:562:LEU:CD2	2.17	0.74
1:D:333:ASP:OD2	1:E:403:ASN:ND2	2.21	0.74
1:D:548:LYS:HZ2	1:D:601:GLN:HA	1.52	0.74
1:F:207:TRP:CD1	1:F:227:GLU:OE2	2.41	0.74
1:I:207:TRP:CD1	1:I:227:GLU:OE2	2.41	0.74
1:K:548:LYS:HZ2	1:K:601:GLN:HA	1.52	0.74
1:C:492:LEU:HD23	1:C:562:LEU:CD2	2.17	0.74
1:F:548:LYS:NZ	1:F:601:GLN:HA	2.01	0.74
1:G:207:TRP:CD1	1:G:227:GLU:OE2	2.41	0.74
1:G:1169:ILE:HD11	1:G:1172:CYS:HB2	1.67	0.74
1:I:518:LEU:H	1:I:518:LEU:HD12	1.51	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:518:LEU:HD12	1:J:518:LEU:H	1.51	0.74
1:M:548:LYS:HA	1:M:602:ILE:O	1.87	0.74
1:P:1169:ILE:HD11	1:P:1172:CYS:HB2	1.67	0.74
1:B:548:LYS:HA	1:B:602:ILE:O	1.87	0.74
1:D:146:ASN:HD22	1:D:280:THR:HG22	1.51	0.74
1:F:548:LYS:HA	1:F:602:ILE:O	1.87	0.74
1:H:207:TRP:CD1	1:H:227:GLU:OE2	2.41	0.74
1:L:492:LEU:HD23	1:L:562:LEU:CD2	2.17	0.74
1:L:548:LYS:HZ2	1:L:601:GLN:CA	2.00	0.74
1:M:207:TRP:CD1	1:M:227:GLU:OE2	2.41	0.74
1:O:207:TRP:CD1	1:O:227:GLU:OE2	2.41	0.74
1:O:492:LEU:HD23	1:O:562:LEU:CD2	2.17	0.74
1:P:207:TRP:CD1	1:P:227:GLU:OE2	2.41	0.74
1:P:902:ILE:HD13	1:P:930:HIS:HE1	1.53	0.74
1:A:902:ILE:HD13	1:A:930:HIS:HE1	1.52	0.74
1:B:207:TRP:CD1	1:B:227:GLU:OE2	2.41	0.74
1:C:146:ASN:HD22	1:C:280:THR:HG22	1.51	0.74
1:C:548:LYS:HA	1:C:602:ILE:O	1.87	0.74
1:E:517:THR:HG23	1:E:518:LEU:HD12	1.70	0.74
1:G:119:VAL:HG23	1:G:120:PHE:H	1.53	0.74
1:G:902:ILE:HD13	1:G:930:HIS:HE1	1.53	0.74
1:H:492:LEU:HD23	1:H:562:LEU:CD2	2.17	0.74
1:H:517:THR:HG23	1:H:518:LEU:HD12	1.70	0.74
1:I:548:LYS:NZ	1:I:601:GLN:HA	2.01	0.74
1:J:517:THR:HG23	1:J:518:LEU:HD12	1.70	0.74
1:J:548:LYS:HA	1:J:602:ILE:O	1.87	0.74
1:K:146:ASN:HD22	1:K:280:THR:HG22	1.51	0.74
1:M:511:SER:C	1:M:513:SER:H	1.91	0.74
1:M:518:LEU:H	1:M:518:LEU:HD12	1.51	0.74
1:N:902:ILE:HD13	1:N:930:HIS:HE1	1.53	0.74
1:O:517:THR:HG23	1:O:518:LEU:HD12	1.70	0.74
1:O:902:ILE:HD13	1:O:930:HIS:HE1	1.52	0.74
1:B:518:LEU:HD12	1:B:518:LEU:H	1.51	0.74
1:D:902:ILE:HD13	1:D:930:HIS:HE1	1.52	0.74
1:H:119:VAL:HG23	1:H:120:PHE:H	1.52	0.74
1:I:517:THR:HG23	1:I:518:LEU:HD12	1.70	0.74
1:J:207:TRP:CD1	1:J:227:GLU:OE2	2.41	0.74
1:K:902:ILE:HD13	1:K:930:HIS:HE1	1.52	0.74
1:N:517:THR:HG23	1:N:518:LEU:HD12	1.70	0.74
1:P:119:VAL:HG23	1:P:120:PHE:H	1.53	0.74
1:P:511:SER:C	1:P:513:SER:H	1.91	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:517:THR:HG23	1:A:518:LEU:HD12	1.70	0.74
1:B:492:LEU:HD23	1:B:562:LEU:CD2	2.17	0.74
1:B:511:SER:C	1:B:513:SER:H	1.90	0.74
1:E:207:TRP:CD1	1:E:227:GLU:OE2	2.41	0.74
1:E:518:LEU:HD12	1:E:518:LEU:H	1.51	0.74
1:F:146:ASN:HD22	1:F:280:THR:HG22	1.51	0.74
1:H:902:ILE:HD13	1:H:930:HIS:HE1	1.52	0.74
1:L:39:ILE:HD11	1:L:76:PHE:HB2	1.70	0.74
1:L:511:SER:C	1:L:513:SER:H	1.91	0.74
1:A:119:VAL:HG23	1:A:120:PHE:H	1.52	0.73
1:A:548:LYS:NZ	1:A:601:GLN:HA	2.01	0.73
1:B:119:VAL:HG23	1:B:120:PHE:H	1.53	0.73
1:C:39:ILE:HD11	1:C:76:PHE:HB2	1.70	0.73
1:D:548:LYS:HZ2	1:D:601:GLN:CA	2.00	0.73
1:F:39:ILE:HD11	1:F:76:PHE:HB2	1.70	0.73
1:F:517:THR:HG23	1:F:518:LEU:HD12	1.70	0.73
1:I:548:LYS:HA	1:I:602:ILE:O	1.87	0.73
1:J:39:ILE:HD11	1:J:76:PHE:HB2	1.70	0.73
1:L:119:VAL:HG23	1:L:120:PHE:H	1.53	0.73
1:M:119:VAL:HG23	1:M:120:PHE:H	1.53	0.73
1:M:492:LEU:HD23	1:M:562:LEU:CD2	2.17	0.73
1:M:902:ILE:HD13	1:M:930:HIS:HE1	1.52	0.73
1:N:119:VAL:HG23	1:N:120:PHE:H	1.53	0.73
1:O:119:VAL:HG23	1:O:120:PHE:H	1.53	0.73
1:O:511:SER:C	1:O:513:SER:H	1.91	0.73
1:A:492:LEU:HD23	1:A:562:LEU:CD2	2.17	0.73
1:C:207:TRP:CD1	1:C:227:GLU:OE2	2.41	0.73
1:C:511:SER:C	1:C:513:SER:H	1.91	0.73
1:E:548:LYS:HA	1:E:602:ILE:O	1.87	0.73
1:G:511:SER:C	1:G:513:SER:H	1.91	0.73
1:G:548:LYS:NZ	1:G:601:GLN:HA	2.01	0.73
1:I:39:ILE:HD11	1:I:76:PHE:HB2	1.70	0.73
1:I:511:SER:C	1:I:513:SER:H	1.91	0.73
1:K:518:LEU:H	1:K:518:LEU:HD12	1.51	0.73
1:L:207:TRP:CD1	1:L:227:GLU:OE2	2.41	0.73
1:P:548:LYS:NZ	1:P:601:GLN:HA	2.01	0.73
1:B:902:ILE:HD13	1:B:930:HIS:HE1	1.53	0.73
1:C:548:LYS:HZ2	1:C:601:GLN:CA	2.00	0.73
1:D:39:ILE:HD11	1:D:76:PHE:HB2	1.70	0.73
1:D:517:THR:HG23	1:D:518:LEU:HD12	1.70	0.73
1:I:146:ASN:HD22	1:I:280:THR:HG22	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:207:TRP:CD1	1:K:227:GLU:OE2	2.41	0.73
1:N:492:LEU:HD23	1:N:562:LEU:CD2	2.17	0.73
1:B:545:PHE:O	1:B:549:ILE:N	2.13	0.73
1:C:119:VAL:HG23	1:C:120:PHE:H	1.52	0.73
1:D:207:TRP:CD1	1:D:227:GLU:OE2	2.41	0.73
1:E:39:ILE:HD11	1:E:76:PHE:HB2	1.70	0.73
1:E:492:LEU:HD23	1:E:562:LEU:CD2	2.17	0.73
1:F:53:ASP:OD1	1:F:54:ALA:N	2.22	0.73
1:F:119:VAL:HG23	1:F:120:PHE:H	1.52	0.73
1:G:517:THR:HG23	1:G:518:LEU:HD12	1.70	0.73
1:I:53:ASP:OD1	1:I:54:ALA:N	2.22	0.73
1:I:492:LEU:HD23	1:I:562:LEU:CD2	2.17	0.73
1:K:119:VAL:HG23	1:K:120:PHE:H	1.52	0.73
1:K:517:THR:HG23	1:K:518:LEU:HD12	1.70	0.73
1:K:548:LYS:HZ2	1:K:601:GLN:CA	2.00	0.73
1:L:902:ILE:HD13	1:L:930:HIS:HE1	1.52	0.73
1:N:511:SER:C	1:N:513:SER:H	1.91	0.73
1:N:548:LYS:NZ	1:N:601:GLN:HA	2.01	0.73
1:P:517:THR:HG23	1:P:518:LEU:HD12	1.70	0.73
1:C:902:ILE:HD13	1:C:930:HIS:HE1	1.53	0.73
1:D:492:LEU:HD23	1:D:562:LEU:CD2	2.17	0.73
1:E:53:ASP:OD1	1:E:54:ALA:N	2.22	0.73
1:F:511:SER:C	1:F:513:SER:H	1.91	0.73
1:J:492:LEU:HD23	1:J:562:LEU:CD2	2.17	0.73
1:K:492:LEU:HD23	1:K:562:LEU:CD2	2.17	0.73
1:M:517:THR:HG23	1:M:518:LEU:HD12	1.70	0.73
1:N:207:TRP:CD1	1:N:227:GLU:OE2	2.41	0.73
1:D:518:LEU:HD12	1:D:518:LEU:H	1.51	0.73
1:E:146:ASN:HD22	1:E:280:THR:HG22	1.51	0.73
1:G:383:THR:H	1:G:419:THR:HA	1.54	0.73
1:H:511:SER:C	1:H:513:SER:H	1.91	0.73
1:K:39:ILE:HD11	1:K:76:PHE:HB2	1.70	0.73
1:K:521:LEU:HA	1:K:524:TYR:CD2	2.23	0.73
1:L:548:LYS:HA	1:L:602:ILE:O	1.87	0.73
1:P:383:THR:H	1:P:419:THR:HA	1.54	0.73
1:A:207:TRP:CD1	1:A:227:GLU:OE2	2.41	0.73
1:A:511:SER:C	1:A:513:SER:H	1.90	0.73
1:B:517:THR:HG23	1:B:518:LEU:HD12	1.70	0.73
1:C:517:THR:HG23	1:C:518:LEU:HD12	1.70	0.73
1:C:518:LEU:H	1:C:518:LEU:HD12	1.51	0.73
1:D:119:VAL:HG23	1:D:120:PHE:H	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:492:LEU:HD23	1:F:562:LEU:CD2	2.17	0.73
1:H:548:LYS:HA	1:H:602:ILE:O	1.87	0.73
1:J:53:ASP:OD1	1:J:54:ALA:N	2.22	0.73
1:P:53:ASP:OD1	1:P:54:ALA:N	2.22	0.73
1:D:521:LEU:HA	1:D:524:TYR:CD2	2.23	0.73
1:G:53:ASP:OD1	1:G:54:ALA:N	2.22	0.73
1:J:146:ASN:HD22	1:J:280:THR:HG22	1.51	0.73
1:L:517:THR:HG23	1:L:518:LEU:HD12	1.70	0.73
1:M:545:PHE:O	1:M:549:ILE:N	2.13	0.73
1:N:53:ASP:OD1	1:N:54:ALA:N	2.22	0.73
1:O:548:LYS:HA	1:O:602:ILE:O	1.87	0.73
1:G:39:ILE:HD11	1:G:76:PHE:HB2	1.70	0.73
1:I:119:VAL:HG23	1:I:120:PHE:H	1.53	0.73
1:J:511:SER:C	1:J:513:SER:H	1.91	0.73
1:K:511:SER:C	1:K:513:SER:H	1.91	0.73
1:O:53:ASP:OD1	1:O:54:ALA:N	2.22	0.73
1:P:39:ILE:HD11	1:P:76:PHE:HB2	1.70	0.73
1:P:548:LYS:HA	1:P:602:ILE:O	1.87	0.73
1:A:14:ASP:OD2	1:B:142:ARG:NH1	2.21	0.73
1:A:53:ASP:OD1	1:A:54:ALA:N	2.22	0.73
1:A:548:LYS:HA	1:A:602:ILE:O	1.87	0.73
1:C:521:LEU:HA	1:C:524:TYR:CD2	2.23	0.73
1:D:511:SER:C	1:D:513:SER:H	1.91	0.73
1:H:53:ASP:OD1	1:H:54:ALA:N	2.22	0.73
1:L:518:LEU:HD12	1:L:518:LEU:H	1.51	0.73
1:D:545:PHE:O	1:D:549:ILE:N	2.13	0.72
1:F:14:ASP:CG	1:G:142:ARG:HH12	1.92	0.72
1:G:548:LYS:HA	1:G:602:ILE:O	1.87	0.72
1:K:545:PHE:O	1:K:549:ILE:N	2.13	0.72
1:L:403:ASN:ND2	1:M:333:ASP:OD2	2.21	0.72
1:B:383:THR:H	1:B:419:THR:HA	1.54	0.72
1:D:53:ASP:OD1	1:D:54:ALA:N	2.22	0.72
1:H:502:ARG:NH2	1:H:519:GLN:OE1	2.22	0.72
1:L:521:LEU:HA	1:L:524:TYR:CD2	2.23	0.72
1:N:383:THR:H	1:N:419:THR:HA	1.54	0.72
1:O:502:ARG:NH2	1:O:519:GLN:OE1	2.22	0.72
1:P:521:LEU:HA	1:P:524:TYR:CD2	2.23	0.72
1:A:458:LEU:HG	1:A:587:ARG:NH2	2.05	0.72
1:A:521:LEU:HA	1:A:524:TYR:CD2	2.23	0.72
1:E:511:SER:C	1:E:513:SER:H	1.91	0.72
1:G:521:LEU:HA	1:G:524:TYR:CD2	2.23	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:39:ILE:HD11	1:H:76:PHE:HB2	1.70	0.72
1:K:53:ASP:OD1	1:K:54:ALA:N	2.22	0.72
1:M:383:THR:H	1:M:419:THR:HA	1.54	0.72
1:N:458:LEU:HG	1:N:587:ARG:NH2	2.05	0.72
1:N:548:LYS:HA	1:N:602:ILE:O	1.87	0.72
1:A:39:ILE:HD11	1:A:76:PHE:HB2	1.70	0.72
1:B:39:ILE:HD11	1:B:76:PHE:HB2	1.70	0.72
1:B:521:LEU:HA	1:B:524:TYR:CD2	2.23	0.72
1:H:521:LEU:HA	1:H:524:TYR:CD2	2.23	0.72
1:I:502:ARG:NH2	1:I:519:GLN:OE1	2.22	0.72
1:J:521:LEU:HA	1:J:524:TYR:CD2	2.23	0.72
1:M:39:ILE:HD11	1:M:76:PHE:HB2	1.70	0.72
1:M:53:ASP:OD1	1:M:54:ALA:N	2.22	0.72
1:N:39:ILE:HD11	1:N:76:PHE:HB2	1.70	0.72
1:A:383:THR:H	1:A:419:THR:HA	1.54	0.72
1:B:53:ASP:OD1	1:B:54:ALA:N	2.22	0.72
1:D:383:THR:H	1:D:419:THR:HA	1.54	0.72
1:E:502:ARG:NH2	1:E:519:GLN:OE1	2.22	0.72
1:F:502:ARG:NH2	1:F:519:GLN:OE1	2.22	0.72
1:F:544:ASP:OD1	1:F:545:PHE:N	2.23	0.72
1:I:544:ASP:OD1	1:I:545:PHE:N	2.23	0.72
1:J:502:ARG:NH2	1:J:519:GLN:OE1	2.22	0.72
1:M:521:LEU:HA	1:M:524:TYR:CD2	2.23	0.72
1:O:521:LEU:HA	1:O:524:TYR:CD2	2.23	0.72
1:E:521:LEU:HA	1:E:524:TYR:CD2	2.23	0.72
1:H:383:THR:H	1:H:419:THR:HA	1.54	0.72
1:N:521:LEU:HA	1:N:524:TYR:CD2	2.23	0.72
1:O:39:ILE:HD11	1:O:76:PHE:HB2	1.70	0.72
1:B:513:SER:HB3	1:B:514:ILE:HD12	1.72	0.72
1:C:458:LEU:HG	1:C:587:ARG:NH2	2.05	0.72
1:C:502:ARG:NH2	1:C:519:GLN:OE1	2.22	0.72
1:C:544:ASP:OD1	1:C:545:PHE:N	2.23	0.72
1:D:544:ASP:OD1	1:D:545:PHE:N	2.23	0.72
1:E:383:THR:H	1:E:419:THR:HA	1.54	0.72
1:F:521:LEU:HA	1:F:524:TYR:CD2	2.23	0.72
1:K:383:THR:H	1:K:419:THR:HA	1.54	0.72
1:K:544:ASP:OD1	1:K:545:PHE:N	2.23	0.72
1:L:458:LEU:HG	1:L:587:ARG:NH2	2.05	0.72
1:L:544:ASP:OD1	1:L:545:PHE:N	2.23	0.72
1:O:383:THR:H	1:O:419:THR:HA	1.54	0.72
1:P:502:ARG:NH2	1:P:519:GLN:OE1	2.22	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:502:ARG:NH2	1:G:519:GLN:OE1	2.22	0.72
1:J:383:THR:H	1:J:419:THR:HA	1.54	0.72
1:K:502:ARG:NH2	1:K:519:GLN:OE1	2.22	0.72
1:M:513:SER:HB3	1:M:514:ILE:HD12	1.72	0.72
1:N:513:SER:HB3	1:N:514:ILE:HD12	1.72	0.72
1:O:544:ASP:OD1	1:O:545:PHE:N	2.23	0.72
1:C:53:ASP:OD1	1:C:54:ALA:N	2.22	0.72
1:D:121:ALA:CB	1:E:276:SER:HB3	2.08	0.72
1:D:502:ARG:NH2	1:D:519:GLN:OE1	2.22	0.72
1:G:547:PRO:CB	1:G:603:ILE:HG13	2.20	0.72
1:H:544:ASP:OD1	1:H:545:PHE:N	2.23	0.72
1:I:521:LEU:HA	1:I:524:TYR:CD2	2.23	0.72
1:L:53:ASP:OD1	1:L:54:ALA:N	2.22	0.72
1:L:502:ARG:NH2	1:L:519:GLN:OE1	2.22	0.72
1:A:513:SER:HB3	1:A:514:ILE:HD12	1.72	0.71
1:B:544:ASP:OD1	1:B:545:PHE:N	2.23	0.71
1:C:383:THR:H	1:C:419:THR:HA	1.54	0.71
1:D:458:LEU:HG	1:D:587:ARG:NH2	2.05	0.71
1:G:458:LEU:HG	1:G:587:ARG:NH2	2.05	0.71
1:I:121:ALA:HB1	1:P:276:SER:CB	2.12	0.71
1:I:636:SER:O	1:I:637:LEU:C	2.29	0.71
1:J:207:TRP:NE1	1:J:227:GLU:OE1	2.23	0.71
1:P:547:PRO:CB	1:P:603:ILE:HG13	2.20	0.71
1:E:207:TRP:NE1	1:E:227:GLU:OE1	2.23	0.71
1:M:544:ASP:OD1	1:M:545:PHE:N	2.23	0.71
1:P:458:LEU:HG	1:P:587:ARG:NH2	2.05	0.71
1:A:502:ARG:NH2	1:A:519:GLN:OE1	2.22	0.71
1:F:458:LEU:HG	1:F:587:ARG:NH2	2.05	0.71
1:F:636:SER:O	1:F:637:LEU:C	2.29	0.71
1:K:458:LEU:HG	1:K:587:ARG:NH2	2.05	0.71
1:M:502:ARG:NH2	1:M:519:GLN:OE1	2.22	0.71
1:O:458:LEU:HG	1:O:587:ARG:NH2	2.05	0.71
1:B:502:ARG:NH2	1:B:519:GLN:OE1	2.22	0.71
1:L:383:THR:H	1:L:419:THR:HA	1.54	0.71
1:N:547:PRO:CB	1:N:603:ILE:HG13	2.20	0.71
1:D:1149:LEU:H	1:D:1196:ALA:HB2	1.56	0.71
1:F:248:GLN:OE1	1:F:268:PHE:CZ	2.44	0.71
1:H:458:LEU:HG	1:H:587:ARG:NH2	2.05	0.71
1:I:458:LEU:HG	1:I:587:ARG:NH2	2.05	0.71
1:K:1149:LEU:H	1:K:1196:ALA:HB2	1.56	0.71
1:M:458:LEU:HG	1:M:587:ARG:NH2	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:502:ARG:NH2	1:N:519:GLN:OE1	2.22	0.71
1:B:458:LEU:HG	1:B:587:ARG:NH2	2.05	0.71
1:G:544:ASP:OD1	1:G:545:PHE:N	2.23	0.71
1:I:248:GLN:OE1	1:I:268:PHE:CZ	2.43	0.71
1:L:207:TRP:HD1	1:L:227:GLU:OE2	1.74	0.71
1:L:284:SER:OG	1:L:286:ASP:OD1	2.09	0.71
1:O:284:SER:OG	1:O:286:ASP:OD1	2.09	0.71
1:C:207:TRP:HD1	1:C:227:GLU:OE2	1.74	0.71
1:C:1149:LEU:H	1:C:1196:ALA:HB2	1.56	0.71
1:D:513:SER:HB3	1:D:514:ILE:HD12	1.72	0.71
1:E:636:SER:O	1:E:637:LEU:C	2.29	0.71
1:G:248:GLN:OE1	1:G:268:PHE:CZ	2.43	0.71
1:H:284:SER:OG	1:H:286:ASP:OD1	2.09	0.71
1:J:636:SER:O	1:J:637:LEU:C	2.29	0.71
1:K:207:TRP:NE1	1:K:227:GLU:OE1	2.23	0.71
1:C:284:SER:OG	1:C:286:ASP:OD1	2.09	0.71
1:D:207:TRP:NE1	1:D:227:GLU:OE1	2.23	0.71
1:E:121:ALA:CB	1:F:276:SER:HB3	2.05	0.71
1:E:284:SER:OG	1:E:286:ASP:OD1	2.09	0.71
1:J:544:ASP:OD1	1:J:545:PHE:N	2.23	0.71
1:L:1149:LEU:H	1:L:1196:ALA:HB2	1.56	0.71
1:M:101:MET:SD	1:M:104:ARG:NH2	2.64	0.71
1:P:248:GLN:OE1	1:P:268:PHE:CZ	2.44	0.71
1:P:463:LEU:HD22	1:P:467:PHE:HE2	1.55	0.71
1:P:544:ASP:OD1	1:P:545:PHE:N	2.23	0.71
1:B:101:MET:SD	1:B:104:ARG:NH2	2.64	0.71
1:E:547:PRO:CB	1:E:603:ILE:HG13	2.20	0.71
1:F:383:THR:H	1:F:419:THR:HA	1.54	0.71
1:G:389:ILE:CD1	1:G:446:HIS:CE1	2.70	0.71
1:H:547:PRO:CB	1:H:603:ILE:HG13	2.20	0.71
1:I:383:THR:H	1:I:419:THR:HA	1.54	0.71
1:J:284:SER:OG	1:J:286:ASP:OD1	2.09	0.71
1:L:207:TRP:NE1	1:L:227:GLU:OE1	2.23	0.71
1:P:389:ILE:CD1	1:P:446:HIS:CE1	2.70	0.71
1:P:1149:LEU:H	1:P:1196:ALA:HB2	1.56	0.71
1:C:207:TRP:NE1	1:C:227:GLU:OE1	2.23	0.71
1:E:544:ASP:OD1	1:E:545:PHE:N	2.23	0.71
1:G:284:SER:OG	1:G:286:ASP:OD1	2.09	0.71
1:G:463:LEU:HD22	1:G:467:PHE:HE2	1.55	0.71
1:G:1149:LEU:H	1:G:1196:ALA:HB2	1.56	0.71
1:H:513:SER:HB3	1:H:514:ILE:HD12	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:284:SER:OG	1:I:286:ASP:OD1	2.09	0.71
1:J:101:MET:SD	1:J:104:ARG:NH2	2.64	0.71
1:J:248:GLN:OE1	1:J:268:PHE:CZ	2.43	0.71
1:J:276:SER:HB3	1:K:121:ALA:CB	2.09	0.71
1:J:547:PRO:CB	1:J:603:ILE:HG13	2.20	0.71
1:K:513:SER:HB3	1:K:514:ILE:HD12	1.72	0.71
1:N:544:ASP:OD1	1:N:545:PHE:N	2.23	0.71
1:O:547:PRO:CB	1:O:603:ILE:HG13	2.20	0.71
1:P:284:SER:OG	1:P:286:ASP:OD1	2.09	0.71
1:P:513:SER:HB3	1:P:514:ILE:HD12	1.72	0.71
1:D:14:ASP:OD2	1:E:142:ARG:NH1	2.24	0.70
1:E:101:MET:SD	1:E:104:ARG:NH2	2.64	0.70
1:F:207:TRP:HD1	1:F:227:GLU:OE2	1.74	0.70
1:F:463:LEU:HD22	1:F:467:PHE:HE2	1.55	0.70
1:I:389:ILE:CD1	1:I:446:HIS:CE1	2.70	0.70
1:I:463:LEU:HD22	1:I:467:PHE:HE2	1.55	0.70
1:M:207:TRP:NE1	1:M:227:GLU:OE1	2.23	0.70
1:O:513:SER:HB3	1:O:514:ILE:HD12	1.72	0.70
1:A:544:ASP:OD1	1:A:545:PHE:N	2.23	0.70
1:B:207:TRP:NE1	1:B:227:GLU:OE1	2.23	0.70
1:D:248:GLN:OE1	1:D:268:PHE:CZ	2.43	0.70
1:E:248:GLN:OE1	1:E:268:PHE:CZ	2.44	0.70
1:E:1149:LEU:H	1:E:1196:ALA:HB2	1.56	0.70
1:F:284:SER:OG	1:F:286:ASP:OD1	2.09	0.70
1:G:101:MET:SD	1:G:104:ARG:NH2	2.64	0.70
1:G:513:SER:HB3	1:G:514:ILE:HD12	1.72	0.70
1:I:207:TRP:HD1	1:I:227:GLU:OE2	1.74	0.70
1:K:248:GLN:OE1	1:K:268:PHE:CZ	2.44	0.70
1:K:284:SER:OG	1:K:286:ASP:OD1	2.09	0.70
1:L:101:MET:SD	1:L:104:ARG:NH2	2.64	0.70
1:P:101:MET:SD	1:P:104:ARG:NH2	2.64	0.70
1:D:284:SER:OG	1:D:286:ASP:OD1	2.09	0.70
1:D:547:PRO:CB	1:D:603:ILE:HG13	2.20	0.70
1:K:547:PRO:CB	1:K:603:ILE:HG13	2.20	0.70
1:B:547:PRO:CB	1:B:603:ILE:HG13	2.20	0.70
1:C:101:MET:SD	1:C:104:ARG:NH2	2.64	0.70
1:C:547:PRO:CB	1:C:603:ILE:HG13	2.20	0.70
1:F:101:MET:SD	1:F:104:ARG:NH2	2.64	0.70
1:F:389:ILE:CD1	1:F:446:HIS:CE1	2.70	0.70
1:H:101:MET:SD	1:H:104:ARG:NH2	2.64	0.70
1:H:248:GLN:OE1	1:H:268:PHE:CZ	2.43	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:636:SER:O	1:H:637:LEU:C	2.29	0.70
1:I:101:MET:SD	1:I:104:ARG:NH2	2.64	0.70
1:J:207:TRP:HD1	1:J:227:GLU:OE2	1.74	0.70
1:J:1149:LEU:H	1:J:1196:ALA:HB2	1.56	0.70
1:L:636:SER:O	1:L:637:LEU:C	2.29	0.70
1:M:1149:LEU:H	1:M:1196:ALA:HB2	1.56	0.70
1:O:101:MET:SD	1:O:104:ARG:NH2	2.64	0.70
1:B:207:TRP:HD1	1:B:227:GLU:OE2	1.74	0.70
1:I:313:PRO:CG	1:I:338:TRP:HZ2	1.98	0.70
1:K:636:SER:O	1:K:637:LEU:C	2.29	0.70
1:L:547:PRO:CB	1:L:603:ILE:HG13	2.20	0.70
1:M:207:TRP:HD1	1:M:227:GLU:OE2	1.74	0.70
1:M:547:PRO:CB	1:M:603:ILE:HG13	2.20	0.70
1:O:636:SER:O	1:O:637:LEU:C	2.29	0.70
1:B:1149:LEU:H	1:B:1196:ALA:HB2	1.56	0.70
1:D:207:TRP:HD1	1:D:227:GLU:OE2	1.74	0.70
1:E:207:TRP:HD1	1:E:227:GLU:OE2	1.74	0.70
1:K:207:TRP:HD1	1:K:227:GLU:OE2	1.74	0.70
1:N:1149:LEU:H	1:N:1196:ALA:HB2	1.56	0.70
1:O:248:GLN:OE1	1:O:268:PHE:CZ	2.44	0.70
1:A:1149:LEU:H	1:A:1196:ALA:HB2	1.56	0.70
1:D:101:MET:SD	1:D:104:ARG:NH2	2.64	0.70
1:D:383:THR:HG23	1:D:419:THR:C	2.12	0.70
1:D:636:SER:O	1:D:637:LEU:C	2.29	0.70
1:G:636:SER:O	1:G:637:LEU:C	2.29	0.70
1:J:458:LEU:HG	1:J:587:ARG:NH2	2.05	0.70
1:K:101:MET:SD	1:K:104:ARG:NH2	2.64	0.70
1:K:383:THR:HG23	1:K:419:THR:C	2.12	0.70
1:N:248:GLN:OE1	1:N:268:PHE:CZ	2.43	0.70
1:O:207:TRP:HD1	1:O:227:GLU:OE2	1.74	0.70
1:P:636:SER:O	1:P:637:LEU:C	2.29	0.70
1:A:248:GLN:OE1	1:A:268:PHE:CZ	2.43	0.70
1:A:636:SER:O	1:A:637:LEU:C	2.29	0.70
1:B:284:SER:OG	1:B:286:ASP:OD1	2.09	0.70
1:E:383:THR:HG23	1:E:419:THR:C	2.12	0.70
1:E:513:SER:HB3	1:E:514:ILE:HD12	1.72	0.70
1:G:383:THR:HG23	1:G:419:THR:C	2.13	0.70
1:H:1149:LEU:H	1:H:1196:ALA:HB2	1.56	0.70
1:N:207:TRP:HD1	1:N:227:GLU:OE2	1.74	0.70
1:N:636:SER:O	1:N:637:LEU:C	2.29	0.70
1:P:383:THR:HG23	1:P:419:THR:C	2.12	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:207:TRP:HD1	1:A:227:GLU:OE2	1.74	0.70
1:C:513:SER:HB3	1:C:514:ILE:HD12	1.72	0.70
1:C:636:SER:O	1:C:637:LEU:C	2.29	0.70
1:E:458:LEU:HG	1:E:587:ARG:NH2	2.05	0.70
1:F:513:SER:HB3	1:F:514:ILE:HD12	1.72	0.70
1:H:207:TRP:HD1	1:H:227:GLU:OE2	1.74	0.70
1:I:513:SER:HB3	1:I:514:ILE:HD12	1.72	0.70
1:J:513:SER:HB3	1:J:514:ILE:HD12	1.72	0.70
1:L:383:THR:HG23	1:L:419:THR:C	2.12	0.70
1:L:513:SER:HB3	1:L:514:ILE:HD12	1.72	0.70
1:M:284:SER:OG	1:M:286:ASP:OD1	2.09	0.70
1:M:636:SER:O	1:M:637:LEU:C	2.29	0.70
1:N:284:SER:OG	1:N:286:ASP:OD1	2.09	0.70
1:O:389:ILE:CD1	1:O:446:HIS:CE1	2.70	0.70
1:B:636:SER:O	1:B:637:LEU:C	2.29	0.69
1:H:383:THR:HG23	1:H:419:THR:C	2.12	0.69
1:K:222:HIS:CD2	1:L:198:LYS:NZ	2.59	0.69
1:O:1149:LEU:H	1:O:1196:ALA:HB2	1.56	0.69
1:P:317:LEU:HD21	1:P:341:TRP:CZ2	2.27	0.69
1:B:317:LEU:HD21	1:B:341:TRP:CZ2	2.28	0.69
1:C:545:PHE:HZ	1:C:565:ALA:HA	1.57	0.69
1:G:317:LEU:HD21	1:G:341:TRP:CZ2	2.27	0.69
1:J:383:THR:HG23	1:J:419:THR:C	2.13	0.69
1:L:545:PHE:HZ	1:L:565:ALA:HA	1.57	0.69
1:M:317:LEU:HD21	1:M:341:TRP:CZ2	2.28	0.69
1:O:383:THR:HG23	1:O:419:THR:C	2.12	0.69
1:A:284:SER:OG	1:A:286:ASP:OD1	2.09	0.69
1:B:517:THR:O	1:B:518:LEU:C	2.30	0.69
1:F:505:SER:OG	1:F:513:SER:OG	2.05	0.69
1:H:389:ILE:CD1	1:H:446:HIS:CE1	2.70	0.69
1:I:1149:LEU:H	1:I:1196:ALA:HB2	1.56	0.69
1:M:517:THR:O	1:M:518:LEU:C	2.30	0.69
1:N:101:MET:SD	1:N:104:ARG:NH2	2.64	0.69
1:N:207:TRP:NE1	1:N:227:GLU:OE1	2.23	0.69
1:A:101:MET:SD	1:A:104:ARG:NH2	2.64	0.69
1:A:207:TRP:NE1	1:A:227:GLU:OE1	2.23	0.69
1:B:476:LYS:HA	1:B:483:ARG:HH12	1.58	0.69
1:B:505:SER:OG	1:B:513:SER:OG	2.05	0.69
1:C:383:THR:HG23	1:C:419:THR:C	2.12	0.69
1:D:279:THR:HG23	1:D:280:THR:HG23	1.74	0.69
1:E:279:THR:HG23	1:E:280:THR:HG23	1.74	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:547:PRO:CB	1:F:603:ILE:HG13	2.20	0.69
1:H:317:LEU:HD21	1:H:341:TRP:CZ2	2.27	0.69
1:I:383:THR:HG23	1:I:419:THR:C	2.12	0.69
1:K:279:THR:HG23	1:K:280:THR:HG23	1.74	0.69
1:M:476:LYS:HA	1:M:483:ARG:HH12	1.58	0.69
1:M:505:SER:OG	1:M:513:SER:OG	2.05	0.69
1:A:476:LYS:HA	1:A:483:ARG:HH12	1.58	0.69
1:C:476:LYS:HA	1:C:483:ARG:HH12	1.58	0.69
1:F:383:THR:HG23	1:F:419:THR:C	2.12	0.69
1:F:1149:LEU:H	1:F:1196:ALA:HB2	1.56	0.69
1:G:301:LEU:CD2	1:G:313:PRO:HG2	2.22	0.69
1:J:317:LEU:HD21	1:J:341:TRP:CZ2	2.27	0.69
1:K:463:LEU:HD22	1:K:467:PHE:HE2	1.54	0.69
1:N:476:LYS:HA	1:N:483:ARG:HH12	1.58	0.69
1:O:317:LEU:HD21	1:O:341:TRP:CZ2	2.27	0.69
1:A:383:THR:HG23	1:A:419:THR:C	2.12	0.69
1:D:517:THR:O	1:D:518:LEU:C	2.30	0.69
1:E:317:LEU:HD21	1:E:341:TRP:CZ2	2.28	0.69
1:F:301:LEU:CD2	1:F:313:PRO:HG2	2.22	0.69
1:L:301:LEU:CD2	1:L:313:PRO:HG2	2.22	0.69
1:P:301:LEU:CD2	1:P:313:PRO:HG2	2.22	0.69
1:D:916:LYS:CE	1:E:1177:TYR:HE2	2.06	0.69
1:H:476:LYS:HA	1:H:483:ARG:HH12	1.58	0.69
1:I:279:THR:HG23	1:I:280:THR:HG23	1.74	0.69
1:I:617:HIS:HE1	1:I:663:GLN:HB3	1.58	0.69
1:J:279:THR:HG23	1:J:280:THR:HG23	1.74	0.69
1:J:463:LEU:HD22	1:J:467:PHE:HE2	1.55	0.69
1:K:517:THR:O	1:K:518:LEU:C	2.30	0.69
1:N:317:LEU:HD21	1:N:341:TRP:CZ2	2.27	0.69
1:A:279:THR:HG23	1:A:280:THR:HG23	1.74	0.69
1:A:317:LEU:HD21	1:A:341:TRP:CZ2	2.27	0.69
1:A:517:THR:O	1:A:518:LEU:C	2.30	0.69
1:A:918:ILE:O	1:A:919:VAL:HG13	1.93	0.69
1:B:248:GLN:OE1	1:B:268:PHE:CZ	2.43	0.69
1:B:504:ASP:CB	1:B:509:ASN:O	2.41	0.69
1:C:317:LEU:HD21	1:C:341:TRP:CZ2	2.27	0.69
1:D:463:LEU:HD22	1:D:467:PHE:HE2	1.55	0.69
1:E:517:THR:O	1:E:518:LEU:C	2.30	0.69
1:E:617:HIS:HE1	1:E:663:GLN:HB3	1.58	0.69
1:F:279:THR:HG23	1:F:280:THR:HG23	1.74	0.69
1:F:617:HIS:HE1	1:F:663:GLN:HB3	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:918:ILE:O	1:G:919:VAL:HG13	1.93	0.69
1:I:301:LEU:CD2	1:I:313:PRO:HG2	2.22	0.69
1:J:517:THR:O	1:J:518:LEU:C	2.30	0.69
1:J:617:HIS:HE1	1:J:663:GLN:HB3	1.58	0.69
1:L:248:GLN:OE1	1:L:268:PHE:CZ	2.43	0.69
1:L:279:THR:HG23	1:L:280:THR:HG23	1.74	0.69
1:L:317:LEU:HD21	1:L:341:TRP:CZ2	2.27	0.69
1:L:476:LYS:HA	1:L:483:ARG:HH12	1.58	0.69
1:M:248:GLN:OE1	1:M:268:PHE:CZ	2.44	0.69
1:M:313:PRO:HG3	1:M:338:TRP:CZ2	2.28	0.69
1:M:504:ASP:CB	1:M:509:ASN:O	2.41	0.69
1:N:279:THR:HG23	1:N:280:THR:HG23	1.74	0.69
1:N:383:THR:HG23	1:N:419:THR:C	2.13	0.69
1:N:517:THR:O	1:N:518:LEU:C	2.30	0.69
1:N:918:ILE:O	1:N:919:VAL:HG13	1.93	0.69
1:O:476:LYS:HA	1:O:483:ARG:HH12	1.58	0.69
1:B:313:PRO:HG3	1:B:338:TRP:CZ2	2.28	0.69
1:D:317:LEU:HD21	1:D:341:TRP:CZ2	2.27	0.69
1:E:476:LYS:HA	1:E:483:ARG:HH12	1.58	0.69
1:H:301:LEU:CD2	1:H:313:PRO:HG2	2.22	0.69
1:I:508:TRP:HA	1:I:606:GLY:C	2.14	0.69
1:I:547:PRO:CB	1:I:603:ILE:HG13	2.20	0.69
1:J:389:ILE:CD1	1:J:446:HIS:CE1	2.70	0.69
1:J:476:LYS:HA	1:J:483:ARG:HH12	1.58	0.69
1:J:545:PHE:HZ	1:J:565:ALA:HA	1.57	0.69
1:K:317:LEU:HD21	1:K:341:TRP:CZ2	2.27	0.69
1:P:504:ASP:CB	1:P:509:ASN:O	2.41	0.69
1:P:918:ILE:O	1:P:919:VAL:HG13	1.93	0.69
1:B:383:THR:HG23	1:B:419:THR:C	2.12	0.69
1:C:301:LEU:CD2	1:C:313:PRO:HG2	2.22	0.69
1:E:545:PHE:HZ	1:E:565:ALA:HA	1.57	0.69
1:G:504:ASP:CB	1:G:509:ASN:O	2.41	0.69
1:G:508:TRP:HA	1:G:606:GLY:C	2.13	0.69
1:K:216:ASN:ND2	1:L:194:GLU:OE2	2.26	0.69
1:M:383:THR:HG23	1:M:419:THR:C	2.12	0.69
1:M:918:ILE:O	1:M:919:VAL:HG13	1.93	0.69
1:N:508:TRP:HA	1:N:606:GLY:C	2.13	0.69
1:O:301:LEU:CD2	1:O:313:PRO:HG2	2.22	0.69
1:A:508:TRP:HA	1:A:606:GLY:C	2.13	0.68
1:B:617:HIS:HE1	1:B:663:GLN:HB3	1.58	0.68
1:B:918:ILE:O	1:B:919:VAL:HG13	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:248:GLN:OE1	1:C:268:PHE:CZ	2.43	0.68
1:C:918:ILE:O	1:C:919:VAL:HG13	1.93	0.68
1:E:313:PRO:HG3	1:E:338:TRP:CZ2	2.28	0.68
1:E:389:ILE:CD1	1:E:446:HIS:CE1	2.70	0.68
1:F:122:LYS:HG3	1:G:276:SER:OG	1.93	0.68
1:F:508:TRP:HA	1:F:606:GLY:C	2.13	0.68
1:H:918:ILE:O	1:H:919:VAL:HG13	1.93	0.68
1:I:505:SER:OG	1:I:513:SER:OG	2.05	0.68
1:J:313:PRO:HG3	1:J:338:TRP:CZ2	2.28	0.68
1:O:508:TRP:HA	1:O:606:GLY:C	2.13	0.68
1:O:918:ILE:O	1:O:919:VAL:HG13	1.93	0.68
1:P:508:TRP:HA	1:P:606:GLY:C	2.13	0.68
1:A:617:HIS:HE1	1:A:663:GLN:HB3	1.58	0.68
1:B:301:LEU:CD2	1:B:313:PRO:HG2	2.22	0.68
1:E:523:PHE:HD1	1:E:527:TYR:HE2	1.42	0.68
1:F:317:LEU:HD21	1:F:341:TRP:CZ2	2.27	0.68
1:F:383:THR:HG22	1:F:420:ILE:HG23	1.76	0.68
1:F:504:ASP:CB	1:F:509:ASN:O	2.41	0.68
1:G:207:TRP:HD1	1:G:227:GLU:OE2	1.74	0.68
1:G:382:PRO:CA	1:G:419:THR:HG22	2.24	0.68
1:G:383:THR:HG22	1:G:420:ILE:HG23	1.76	0.68
1:H:313:PRO:HG3	1:H:338:TRP:CZ2	2.28	0.68
1:H:463:LEU:HD22	1:H:467:PHE:HE2	1.55	0.68
1:H:508:TRP:HA	1:H:606:GLY:C	2.13	0.68
1:I:383:THR:HG22	1:I:420:ILE:HG23	1.76	0.68
1:J:523:PHE:HD1	1:J:527:TYR:HE2	1.42	0.68
1:L:918:ILE:O	1:L:919:VAL:HG13	1.93	0.68
1:M:617:HIS:HE1	1:M:663:GLN:HB3	1.58	0.68
1:N:617:HIS:HE1	1:N:663:GLN:HB3	1.58	0.68
1:P:382:PRO:CA	1:P:419:THR:HG22	2.23	0.68
1:A:504:ASP:CB	1:A:509:ASN:O	2.41	0.68
1:C:279:THR:HG23	1:C:280:THR:HG23	1.74	0.68
1:D:504:ASP:CB	1:D:509:ASN:O	2.41	0.68
1:I:194:GLU:OE2	1:P:216:ASN:ND2	2.26	0.68
1:I:317:LEU:HD21	1:I:341:TRP:CZ2	2.27	0.68
1:M:301:LEU:CD2	1:M:313:PRO:HG2	2.22	0.68
1:N:383:THR:HG22	1:N:420:ILE:HG23	1.76	0.68
1:P:207:TRP:HD1	1:P:227:GLU:OE2	1.74	0.68
1:P:383:THR:HG22	1:P:420:ILE:HG23	1.76	0.68
1:A:383:THR:HG22	1:A:420:ILE:HG23	1.76	0.68
1:B:383:THR:HG22	1:B:420:ILE:HG23	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:476:LYS:HA	1:D:483:ARG:HH12	1.58	0.68
1:D:523:PHE:HD1	1:D:527:TYR:HE2	1.42	0.68
1:E:382:PRO:CA	1:E:419:THR:HG22	2.23	0.68
1:E:508:TRP:HA	1:E:606:GLY:C	2.13	0.68
1:G:476:LYS:HA	1:G:483:ARG:HH12	1.58	0.68
1:H:279:THR:HG23	1:H:280:THR:HG23	1.74	0.68
1:I:504:ASP:CB	1:I:509:ASN:O	2.41	0.68
1:K:476:LYS:HA	1:K:483:ARG:HH12	1.58	0.68
1:K:504:ASP:CB	1:K:509:ASN:O	2.41	0.68
1:K:523:PHE:HD1	1:K:527:TYR:HE2	1.42	0.68
1:O:313:PRO:HG3	1:O:338:TRP:CZ2	2.28	0.68
1:O:463:LEU:HD22	1:O:467:PHE:HE2	1.55	0.68
1:A:301:LEU:CD2	1:A:313:PRO:HG2	2.22	0.68
1:A:523:PHE:HD1	1:A:527:TYR:HE2	1.42	0.68
1:A:547:PRO:CB	1:A:603:ILE:HG13	2.20	0.68
1:F:545:PHE:HZ	1:F:565:ALA:HA	1.57	0.68
1:H:207:TRP:NE1	1:H:227:GLU:OE1	2.23	0.68
1:I:14:ASP:OD2	1:P:142:ARG:NH1	2.27	0.68
1:I:313:PRO:HG3	1:I:338:TRP:CZ2	2.28	0.68
1:I:545:PHE:HZ	1:I:565:ALA:HA	1.57	0.68
1:J:382:PRO:CA	1:J:419:THR:HG22	2.24	0.68
1:M:383:THR:HG22	1:M:420:ILE:HG23	1.76	0.68
1:N:301:LEU:CD2	1:N:313:PRO:HG2	2.22	0.68
1:N:504:ASP:CB	1:N:509:ASN:O	2.41	0.68
1:O:383:THR:HG22	1:O:420:ILE:HG23	1.76	0.68
1:P:476:LYS:HA	1:P:483:ARG:HH12	1.58	0.68
1:B:523:PHE:HD1	1:B:527:TYR:HE2	1.42	0.68
1:C:504:ASP:CB	1:C:509:ASN:O	2.41	0.68
1:C:517:THR:O	1:C:518:LEU:C	2.30	0.68
1:C:617:HIS:HE1	1:C:663:GLN:HB3	1.58	0.68
1:I:523:PHE:HD1	1:I:527:TYR:HE2	1.42	0.68
1:J:508:TRP:HA	1:J:606:GLY:C	2.13	0.68
1:M:523:PHE:HD1	1:M:527:TYR:HE2	1.42	0.68
1:N:523:PHE:HD1	1:N:527:TYR:HE2	1.42	0.68
1:B:508:TRP:HA	1:B:606:GLY:C	2.13	0.68
1:D:508:TRP:HA	1:D:606:GLY:C	2.13	0.68
1:E:918:ILE:O	1:E:919:VAL:HG13	1.93	0.68
1:F:523:PHE:HD1	1:F:527:TYR:HE2	1.42	0.68
1:F:918:ILE:O	1:F:919:VAL:HG13	1.93	0.68
1:H:383:THR:HG22	1:H:420:ILE:HG23	1.76	0.68
1:K:508:TRP:HA	1:K:606:GLY:C	2.14	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:504:ASP:CB	1:L:509:ASN:O	2.41	0.68
1:M:508:TRP:HA	1:M:606:GLY:C	2.14	0.68
1:O:279:THR:HG23	1:O:280:THR:HG23	1.74	0.68
1:O:617:HIS:HE1	1:O:663:GLN:HB3	1.58	0.68
1:E:383:THR:HG22	1:E:420:ILE:HG23	1.76	0.68
1:F:313:PRO:HG3	1:F:338:TRP:CZ2	2.28	0.68
1:G:207:TRP:NE1	1:G:227:GLU:OE1	2.23	0.68
1:G:617:HIS:HE1	1:G:663:GLN:HB3	1.58	0.68
1:J:918:ILE:O	1:J:919:VAL:HG13	1.93	0.68
1:O:207:TRP:NE1	1:O:227:GLU:OE1	2.23	0.68
1:O:523:PHE:HD1	1:O:527:TYR:HE2	1.42	0.68
1:P:207:TRP:NE1	1:P:227:GLU:OE1	2.23	0.68
1:P:523:PHE:HD1	1:P:527:TYR:HE2	1.42	0.68
1:P:617:HIS:HE1	1:P:663:GLN:HB3	1.58	0.68
1:D:617:HIS:HE1	1:D:663:GLN:HB3	1.58	0.68
1:E:301:LEU:CD2	1:E:313:PRO:HG2	2.22	0.68
1:E:463:LEU:HD22	1:E:467:PHE:HE2	1.55	0.68
1:F:517:THR:O	1:F:518:LEU:C	2.30	0.68
1:F:517:THR:HG23	1:F:518:LEU:N	2.09	0.68
1:H:523:PHE:HD1	1:H:527:TYR:HE2	1.42	0.68
1:H:617:HIS:HE1	1:H:663:GLN:HB3	1.58	0.68
1:I:517:THR:O	1:I:518:LEU:C	2.30	0.68
1:I:517:THR:HG23	1:I:518:LEU:N	2.09	0.68
1:L:517:THR:O	1:L:518:LEU:C	2.30	0.68
1:N:463:LEU:HD22	1:N:467:PHE:HE2	1.55	0.68
1:A:463:LEU:HD22	1:A:467:PHE:HE2	1.55	0.68
1:C:508:TRP:HA	1:C:606:GLY:C	2.13	0.68
1:D:517:THR:HG23	1:D:518:LEU:N	2.09	0.68
1:G:279:THR:HG23	1:G:280:THR:HG23	1.74	0.68
1:G:523:PHE:HD1	1:G:527:TYR:HE2	1.42	0.68
1:J:383:THR:HG22	1:J:420:ILE:HG23	1.76	0.68
1:K:617:HIS:HE1	1:K:663:GLN:HB3	1.58	0.68
1:L:383:THR:HG22	1:L:420:ILE:HG23	1.76	0.68
1:L:508:TRP:HA	1:L:606:GLY:C	2.13	0.68
1:L:617:HIS:HE1	1:L:663:GLN:HB3	1.58	0.68
1:N:517:THR:HG23	1:N:518:LEU:N	2.09	0.68
1:P:279:THR:HG23	1:P:280:THR:HG23	1.74	0.67
1:A:517:THR:HG23	1:A:518:LEU:N	2.09	0.67
1:C:383:THR:HG22	1:C:420:ILE:HG23	1.76	0.67
1:F:476:LYS:HA	1:F:483:ARG:HH12	1.58	0.67
1:H:398:VAL:HG23	1:H:399:MET:H	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:918:ILE:O	1:I:919:VAL:HG13	1.93	0.67
1:J:301:LEU:CD2	1:J:313:PRO:HG2	2.22	0.67
1:K:517:THR:HG23	1:K:518:LEU:N	2.09	0.67
1:L:382:PRO:CA	1:L:419:THR:HG22	2.24	0.67
1:N:389:ILE:CD1	1:N:446:HIS:CE1	2.70	0.67
1:O:504:ASP:CB	1:O:509:ASN:O	2.41	0.67
1:P:517:THR:HG23	1:P:518:LEU:N	2.09	0.67
1:B:517:THR:HG23	1:B:518:LEU:N	2.09	0.67
1:C:517:THR:HG23	1:C:518:LEU:N	2.09	0.67
1:D:313:PRO:HG3	1:D:338:TRP:CZ2	2.28	0.67
1:G:517:THR:HG23	1:G:518:LEU:N	2.09	0.67
1:H:504:ASP:CB	1:H:509:ASN:O	2.41	0.67
1:H:517:THR:HG23	1:H:518:LEU:N	2.09	0.67
1:I:476:LYS:HA	1:I:483:ARG:HH12	1.58	0.67
1:L:517:THR:HG23	1:L:518:LEU:N	2.09	0.67
1:N:398:VAL:HG23	1:N:399:MET:H	1.60	0.67
1:O:398:VAL:HG23	1:O:399:MET:H	1.60	0.67
1:O:517:THR:O	1:O:518:LEU:C	2.30	0.67
1:A:398:VAL:HG23	1:A:399:MET:H	1.60	0.67
1:A:545:PHE:HZ	1:A:565:ALA:HA	1.57	0.67
1:D:383:THR:HG22	1:D:420:ILE:HG23	1.76	0.67
1:D:405:LEU:HG	1:D:411:VAL:HG23	1.77	0.67
1:G:398:VAL:HG23	1:G:399:MET:H	1.60	0.67
1:H:517:THR:O	1:H:518:LEU:C	2.30	0.67
1:K:313:PRO:HG3	1:K:338:TRP:CZ2	2.28	0.67
1:K:383:THR:HG22	1:K:420:ILE:HG23	1.76	0.67
1:L:523:PHE:HD1	1:L:527:TYR:HE2	1.42	0.67
1:M:517:THR:HG23	1:M:518:LEU:N	2.09	0.67
1:O:517:THR:HG23	1:O:518:LEU:N	2.09	0.67
1:B:279:THR:HG23	1:B:280:THR:HG23	1.74	0.67
1:B:398:VAL:HG23	1:B:399:MET:H	1.60	0.67
1:C:313:PRO:HG3	1:C:338:TRP:CZ2	2.28	0.67
1:C:523:PHE:HD1	1:C:527:TYR:HE2	1.42	0.67
1:I:207:TRP:NE1	1:I:227:GLU:OE1	2.23	0.67
1:L:398:VAL:HG23	1:L:399:MET:H	1.60	0.67
1:M:398:VAL:HG23	1:M:399:MET:H	1.60	0.67
1:I:398:VAL:HG23	1:I:399:MET:H	1.60	0.67
1:J:517:THR:HG23	1:J:518:LEU:N	2.09	0.67
1:K:276:SER:HB3	1:L:121:ALA:CB	2.14	0.67
1:K:405:LEU:HG	1:K:411:VAL:HG23	1.77	0.67
1:O:142:ARG:NH1	1:P:14:ASP:OD2	2.28	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:382:PRO:CA	1:O:419:THR:HG22	2.23	0.67
1:P:398:VAL:HG23	1:P:399:MET:H	1.60	0.67
1:P:517:THR:O	1:P:518:LEU:C	2.30	0.67
1:A:389:ILE:CD1	1:A:446:HIS:CE1	2.70	0.67
1:B:545:PHE:HZ	1:B:565:ALA:HA	1.57	0.67
1:C:382:PRO:CA	1:C:419:THR:HG22	2.24	0.67
1:C:398:VAL:HG23	1:C:399:MET:H	1.60	0.67
1:E:517:THR:HG23	1:E:518:LEU:N	2.09	0.67
1:G:517:THR:O	1:G:518:LEU:C	2.30	0.67
1:K:142:ARG:NH1	1:L:14:ASP:OD2	2.27	0.67
1:M:279:THR:HG23	1:M:280:THR:HG23	1.74	0.67
1:M:545:PHE:HZ	1:M:565:ALA:HA	1.58	0.67
1:N:545:PHE:HZ	1:N:565:ALA:HA	1.57	0.67
1:A:11:GLN:HE21	1:A:70:GLU:HB3	1.60	0.67
1:A:382:PRO:CA	1:A:419:THR:HG22	2.23	0.67
1:B:382:PRO:CA	1:B:419:THR:HG22	2.23	0.67
1:F:207:TRP:NE1	1:F:227:GLU:OE1	2.23	0.67
1:H:11:GLN:HE21	1:H:70:GLU:HB3	1.60	0.67
1:H:382:PRO:CA	1:H:419:THR:HG22	2.23	0.67
1:K:918:ILE:O	1:K:919:VAL:HG13	1.93	0.67
1:L:313:PRO:HG3	1:L:338:TRP:CZ2	2.28	0.67
1:L:405:LEU:HG	1:L:411:VAL:HG23	1.77	0.67
1:M:11:GLN:HE21	1:M:70:GLU:HB3	1.60	0.67
1:B:11:GLN:HE21	1:B:70:GLU:HB3	1.60	0.67
1:D:918:ILE:O	1:D:919:VAL:HG13	1.93	0.67
1:E:398:VAL:HG23	1:E:399:MET:H	1.60	0.67
1:J:398:VAL:HG23	1:J:399:MET:H	1.60	0.67
1:L:11:GLN:HE21	1:L:70:GLU:HB3	1.60	0.67
1:N:11:GLN:HE21	1:N:70:GLU:HB3	1.60	0.67
1:O:11:GLN:HE21	1:O:70:GLU:HB3	1.60	0.67
1:P:11:GLN:HE21	1:P:70:GLU:HB3	1.60	0.67
1:P:313:PRO:HG3	1:P:338:TRP:CZ2	2.28	0.67
1:C:317:LEU:CD2	1:C:341:TRP:CZ2	2.78	0.67
1:K:398:VAL:HG23	1:K:399:MET:H	1.60	0.67
1:M:382:PRO:CA	1:M:419:THR:HG22	2.24	0.67
1:N:382:PRO:CA	1:N:419:THR:HG22	2.24	0.67
1:O:545:PHE:HZ	1:O:565:ALA:HA	1.57	0.67
1:P:598:GLN:HG2	1:P:1228:ILE:HG23	1.77	0.67
1:C:11:GLN:HE21	1:C:70:GLU:HB3	1.60	0.66
1:F:398:VAL:HG23	1:F:399:MET:H	1.60	0.66
1:F:598:GLN:HG2	1:F:1228:ILE:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:11:GLN:HE21	1:G:70:GLU:HB3	1.60	0.66
1:G:313:PRO:HG3	1:G:338:TRP:CZ2	2.28	0.66
1:H:598:GLN:HG2	1:H:1228:ILE:HG23	1.78	0.66
1:I:317:LEU:CD2	1:I:341:TRP:CZ2	2.79	0.66
1:I:382:PRO:CA	1:I:419:THR:HG22	2.23	0.66
1:J:317:LEU:CD2	1:J:341:TRP:CZ2	2.78	0.66
1:J:598:GLN:HG2	1:J:1228:ILE:HG23	1.78	0.66
1:L:317:LEU:CD2	1:L:341:TRP:CZ2	2.79	0.66
1:M:520:GLN:HB3	1:M:524:TYR:OH	1.95	0.66
1:O:598:GLN:HG2	1:O:1228:ILE:HG23	1.78	0.66
1:A:313:PRO:HG3	1:A:338:TRP:CZ2	2.28	0.66
1:B:520:GLN:HB3	1:B:524:TYR:OH	1.95	0.66
1:C:405:LEU:HG	1:C:411:VAL:HG23	1.77	0.66
1:D:398:VAL:HG23	1:D:399:MET:H	1.60	0.66
1:E:317:LEU:CD2	1:E:341:TRP:CZ2	2.79	0.66
1:E:598:GLN:HG2	1:E:1228:ILE:HG23	1.78	0.66
1:F:317:LEU:CD2	1:F:341:TRP:CZ2	2.79	0.66
1:G:598:GLN:HG2	1:G:1228:ILE:HG23	1.78	0.66
1:H:545:PHE:HZ	1:H:565:ALA:HA	1.57	0.66
1:I:598:GLN:HG2	1:I:1228:ILE:HG23	1.78	0.66
1:K:11:GLN:HE21	1:K:70:GLU:HB3	1.60	0.66
1:L:914:VAL:CG2	1:L:917:TYR:O	2.44	0.66
1:M:637:LEU:O	1:M:638:GLU:CB	2.43	0.66
1:B:121:ALA:CB	1:C:276:SER:CB	2.61	0.66
1:B:314:ARG:C	1:B:315:GLU:HG3	2.15	0.66
1:C:914:VAL:CG2	1:C:917:TYR:O	2.44	0.66
1:D:11:GLN:HE21	1:D:70:GLU:HB3	1.60	0.66
1:D:520:GLN:HB3	1:D:524:TYR:OH	1.96	0.66
1:E:914:VAL:CG2	1:E:917:TYR:O	2.44	0.66
1:F:122:LYS:CG	1:G:276:SER:OG	2.43	0.66
1:J:914:VAL:CG2	1:J:917:TYR:O	2.44	0.66
1:J:1177:TYR:HE2	1:K:916:LYS:CE	2.08	0.66
1:L:463:LEU:HD22	1:L:467:PHE:HE2	1.55	0.66
1:N:313:PRO:HG3	1:N:338:TRP:CZ2	2.28	0.66
1:A:520:GLN:HB3	1:A:524:TYR:OH	1.95	0.66
1:K:520:GLN:HB3	1:K:524:TYR:OH	1.96	0.66
1:M:314:ARG:C	1:M:315:GLU:HG3	2.15	0.66
1:N:598:GLN:HG2	1:N:1228:ILE:HG23	1.77	0.66
1:A:314:ARG:C	1:A:315:GLU:HG3	2.16	0.66
1:B:463:LEU:HD22	1:B:467:PHE:HE2	1.55	0.66
1:F:382:PRO:CA	1:F:419:THR:HG22	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:314:ARG:C	1:N:315:GLU:HG3	2.16	0.66
1:N:520:GLN:HB3	1:N:524:TYR:OH	1.95	0.66
1:C:314:ARG:C	1:C:315:GLU:HG3	2.16	0.66
1:D:266:THR:HG21	1:D:271:VAL:HB	1.78	0.66
1:H:1214:LEU:HB3	1:H:1223:GLN:HA	1.78	0.66
1:I:464:ASP:O	1:I:468:TYR:CE2	2.49	0.66
1:K:266:THR:HG21	1:K:271:VAL:HB	1.78	0.66
1:K:389:ILE:CD1	1:K:446:HIS:CE1	2.70	0.66
1:O:1214:LEU:HB3	1:O:1223:GLN:HA	1.78	0.66
1:A:598:GLN:HG2	1:A:1228:ILE:HG23	1.78	0.66
1:B:317:LEU:CD2	1:B:341:TRP:CZ2	2.79	0.66
1:C:14:ASP:CG	1:D:142:ARG:HH22	1.98	0.66
1:D:916:LYS:HE2	1:E:1177:TYR:HE2	1.60	0.66
1:F:198:LYS:HZ1	1:G:222:HIS:CG	2.14	0.66
1:G:464:ASP:O	1:G:468:TYR:CE2	2.49	0.66
1:G:1214:LEU:HB3	1:G:1223:GLN:HA	1.78	0.66
1:O:413:LYS:O	1:O:421:SER:HB3	1.95	0.66
1:C:266:THR:HG21	1:C:271:VAL:HB	1.78	0.66
1:E:314:ARG:C	1:E:315:GLU:HG3	2.15	0.66
1:F:464:ASP:O	1:F:468:TYR:CE2	2.49	0.66
1:G:499:GLN:NE2	1:G:516:ASN:HB3	2.11	0.66
1:H:405:LEU:HG	1:H:411:VAL:HG23	1.77	0.66
1:H:413:LYS:O	1:H:421:SER:HB3	1.96	0.66
1:I:914:VAL:CG2	1:I:917:TYR:O	2.44	0.66
1:J:266:THR:HG21	1:J:271:VAL:HB	1.78	0.66
1:J:464:ASP:O	1:J:468:TYR:CE2	2.49	0.66
1:J:1214:LEU:HB3	1:J:1223:GLN:HA	1.78	0.66
1:K:492:LEU:HD11	1:K:561:LEU:HD21	1.78	0.66
1:L:216:ASN:ND2	1:M:194:GLU:OE2	2.29	0.66
1:L:266:THR:HG21	1:L:271:VAL:HB	1.78	0.66
1:L:313:PRO:CG	1:L:338:TRP:HE1	2.07	0.66
1:M:317:LEU:CD2	1:M:341:TRP:CZ2	2.79	0.66
1:P:464:ASP:O	1:P:468:TYR:CE2	2.49	0.66
1:A:914:VAL:CG2	1:A:917:TYR:O	2.44	0.66
1:D:317:LEU:CD2	1:D:341:TRP:CZ2	2.79	0.66
1:D:389:ILE:CD1	1:D:446:HIS:CE1	2.70	0.66
1:D:492:LEU:HD11	1:D:561:LEU:HD21	1.78	0.66
1:D:598:GLN:HG2	1:D:1228:ILE:HG23	1.78	0.66
1:D:637:LEU:O	1:D:638:GLU:CB	2.43	0.66
1:E:464:ASP:O	1:E:468:TYR:CE2	2.49	0.66
1:E:637:LEU:O	1:E:638:GLU:CB	2.43	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1214:LEU:HB3	1:E:1223:GLN:HA	1.78	0.66
1:F:914:VAL:CG2	1:F:917:TYR:O	2.44	0.66
1:G:314:ARG:C	1:G:315:GLU:HG3	2.15	0.66
1:I:1214:LEU:HB3	1:I:1223:GLN:HA	1.78	0.66
1:J:314:ARG:C	1:J:315:GLU:HG3	2.16	0.66
1:K:317:LEU:CD2	1:K:341:TRP:CZ2	2.79	0.66
1:K:598:GLN:HG2	1:K:1228:ILE:HG23	1.78	0.66
1:N:914:VAL:CG2	1:N:917:TYR:O	2.44	0.66
1:O:405:LEU:HG	1:O:411:VAL:HG23	1.77	0.66
1:P:405:LEU:HG	1:P:411:VAL:HG23	1.77	0.66
1:P:492:LEU:HD11	1:P:561:LEU:HD21	1.78	0.66
1:P:499:GLN:NE2	1:P:516:ASN:HB3	2.11	0.66
1:P:1214:LEU:HB3	1:P:1223:GLN:HA	1.78	0.66
1:A:317:LEU:C	1:A:318:THR:HG1	1.94	0.66
1:A:413:LYS:O	1:A:421:SER:HB3	1.96	0.66
1:A:1214:LEU:HB3	1:A:1223:GLN:HA	1.78	0.66
1:B:413:LYS:O	1:B:421:SER:HB3	1.96	0.66
1:C:413:LYS:O	1:C:421:SER:HB3	1.96	0.66
1:D:914:VAL:CG2	1:D:917:TYR:O	2.44	0.66
1:E:266:THR:HG21	1:E:271:VAL:HB	1.78	0.66
1:E:413:LYS:O	1:E:421:SER:HB3	1.96	0.66
1:E:504:ASP:CB	1:E:509:ASN:O	2.41	0.66
1:F:11:GLN:HE21	1:F:70:GLU:HB3	1.60	0.66
1:F:492:LEU:HD11	1:F:561:LEU:HD21	1.78	0.66
1:F:1214:LEU:HB3	1:F:1223:GLN:HA	1.78	0.66
1:G:405:LEU:HG	1:G:411:VAL:HG23	1.77	0.66
1:G:520:GLN:HB3	1:G:524:TYR:OH	1.96	0.66
1:J:142:ARG:NH1	1:K:14:ASP:OD2	2.29	0.66
1:J:504:ASP:CB	1:J:509:ASN:O	2.41	0.66
1:J:637:LEU:O	1:J:638:GLU:CB	2.43	0.66
1:K:637:LEU:O	1:K:638:GLU:CB	2.43	0.66
1:K:914:VAL:CG2	1:K:917:TYR:O	2.44	0.66
1:M:413:LYS:O	1:M:421:SER:HB3	1.96	0.66
1:M:463:LEU:HD22	1:M:467:PHE:HE2	1.55	0.66
1:N:1214:LEU:HB3	1:N:1223:GLN:HA	1.78	0.66
1:O:499:GLN:NE2	1:O:516:ASN:HB3	2.11	0.66
1:P:314:ARG:C	1:P:315:GLU:HG3	2.16	0.66
1:P:317:LEU:CD2	1:P:341:TRP:CZ2	2.78	0.66
1:P:520:GLN:HB3	1:P:524:TYR:OH	1.96	0.66
1:A:405:LEU:HG	1:A:411:VAL:HG23	1.77	0.65
1:B:598:GLN:HG2	1:B:1228:ILE:HG23	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:313:PRO:CG	1:C:338:TRP:HE1	2.07	0.65
1:D:301:LEU:CD2	1:D:313:PRO:HG2	2.22	0.65
1:G:317:LEU:CD2	1:G:341:TRP:CZ2	2.79	0.65
1:G:492:LEU:HD11	1:G:561:LEU:HD21	1.78	0.65
1:G:914:VAL:CG2	1:G:917:TYR:O	2.44	0.65
1:H:451:LYS:HD3	1:H:486:LEU:CD2	2.26	0.65
1:J:413:LYS:O	1:J:421:SER:HB3	1.96	0.65
1:J:499:GLN:NE2	1:J:516:ASN:HB3	2.11	0.65
1:M:598:GLN:HG2	1:M:1228:ILE:HG23	1.78	0.65
1:N:317:LEU:C	1:N:318:THR:HG1	1.94	0.65
1:N:492:LEU:HD11	1:N:561:LEU:HD21	1.78	0.65
1:O:520:GLN:HB3	1:O:524:TYR:OH	1.96	0.65
1:E:499:GLN:NE2	1:E:516:ASN:HB3	2.11	0.65
1:F:413:LYS:O	1:F:421:SER:HB3	1.95	0.65
1:F:520:GLN:HB3	1:F:524:TYR:OH	1.95	0.65
1:H:499:GLN:NE2	1:H:516:ASN:HB3	2.11	0.65
1:H:520:GLN:HB3	1:H:524:TYR:OH	1.95	0.65
1:H:914:VAL:CG2	1:H:917:TYR:O	2.44	0.65
1:I:492:LEU:HD11	1:I:561:LEU:HD21	1.78	0.65
1:J:517:THR:HG23	1:J:518:LEU:H	1.62	0.65
1:K:464:ASP:O	1:K:468:TYR:CE2	2.49	0.65
1:L:598:GLN:HG2	1:L:1228:ILE:HG23	1.78	0.65
1:M:389:ILE:CD1	1:M:446:HIS:CE1	2.70	0.65
1:O:451:LYS:HD3	1:O:486:LEU:CD2	2.26	0.65
1:O:464:ASP:O	1:O:468:TYR:CE2	2.49	0.65
1:O:517:THR:HG23	1:O:518:LEU:H	1.62	0.65
1:P:914:VAL:CG2	1:P:917:TYR:O	2.44	0.65
1:A:492:LEU:HD11	1:A:561:LEU:HD21	1.78	0.65
1:B:266:THR:HG21	1:B:271:VAL:HB	1.78	0.65
1:C:315:GLU:O	1:C:316:VAL:HG22	1.97	0.65
1:E:11:GLN:HE21	1:E:70:GLU:HB3	1.60	0.65
1:E:517:THR:HG23	1:E:518:LEU:H	1.62	0.65
1:F:266:THR:HG21	1:F:271:VAL:HB	1.78	0.65
1:H:464:ASP:O	1:H:468:TYR:CE2	2.49	0.65
1:H:517:THR:HG23	1:H:518:LEU:H	1.62	0.65
1:K:301:LEU:CD2	1:K:313:PRO:HG2	2.22	0.65
1:L:389:ILE:CD1	1:L:446:HIS:CE1	2.70	0.65
1:L:413:LYS:O	1:L:421:SER:HB3	1.96	0.65
1:M:266:THR:HG21	1:M:271:VAL:HB	1.78	0.65
1:N:266:THR:HG21	1:N:271:VAL:HB	1.78	0.65
1:N:405:LEU:HG	1:N:411:VAL:HG23	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:413:LYS:O	1:N:421:SER:HB3	1.96	0.65
1:O:914:VAL:CG2	1:O:917:TYR:O	2.44	0.65
1:A:266:THR:HG21	1:A:271:VAL:HB	1.78	0.65
1:C:463:LEU:HD22	1:C:467:PHE:HE2	1.55	0.65
1:C:598:GLN:HG2	1:C:1228:ILE:HG23	1.78	0.65
1:D:315:GLU:O	1:D:316:VAL:HG22	1.97	0.65
1:D:464:ASP:O	1:D:468:TYR:CE2	2.49	0.65
1:D:499:GLN:NE2	1:D:516:ASN:HB3	2.11	0.65
1:D:517:THR:HG23	1:D:518:LEU:H	1.62	0.65
1:D:1214:LEU:HB3	1:D:1223:GLN:HA	1.78	0.65
2:F:1501:DTP:O2A	2:F:1501:DTP:H8	1.96	0.65
1:G:315:GLU:O	1:G:316:VAL:HG22	1.97	0.65
1:H:252:ALA:O	1:H:255:ALA:N	2.25	0.65
1:I:520:GLN:HB3	1:I:524:TYR:OH	1.96	0.65
2:I:1501:DTP:O1A	2:I:1501:DTP:H8	1.97	0.65
1:K:315:GLU:O	1:K:316:VAL:HG22	1.97	0.65
1:K:499:GLN:NE2	1:K:516:ASN:HB3	2.11	0.65
1:K:1214:LEU:HB3	1:K:1223:GLN:HA	1.78	0.65
1:L:315:GLU:O	1:L:316:VAL:HG22	1.97	0.65
1:L:520:GLN:HB3	1:L:524:TYR:OH	1.95	0.65
1:M:373:SER:OG	1:M:433:LEU:HB2	1.97	0.65
1:B:373:SER:OG	1:B:433:LEU:HB2	1.97	0.65
1:B:389:ILE:CD1	1:B:446:HIS:CE1	2.70	0.65
1:B:405:LEU:HG	1:B:411:VAL:HG23	1.77	0.65
1:C:520:GLN:HB3	1:C:524:TYR:OH	1.95	0.65
1:I:266:THR:HG21	1:I:271:VAL:HB	1.78	0.65
1:I:405:LEU:HG	1:I:411:VAL:HG23	1.77	0.65
1:I:413:LYS:O	1:I:421:SER:HB3	1.96	0.65
1:K:517:THR:HG23	1:K:518:LEU:H	1.62	0.65
2:K:1501:DTP:O1A	2:K:1501:DTP:H8	1.97	0.65
1:M:405:LEU:HG	1:M:411:VAL:HG23	1.77	0.65
1:O:252:ALA:O	1:O:255:ALA:N	2.25	0.65
1:A:315:GLU:O	1:A:316:VAL:HG22	1.97	0.65
1:A:373:SER:OG	1:A:433:LEU:HB2	1.97	0.65
1:A:464:ASP:O	1:A:468:TYR:CE2	2.49	0.65
1:A:499:GLN:NE2	1:A:516:ASN:HB3	2.11	0.65
1:B:464:ASP:O	1:B:468:TYR:CE2	2.49	0.65
1:B:538:LEU:HG	1:B:571:GLU:OE2	1.97	0.65
1:C:464:ASP:O	1:C:468:TYR:CE2	2.49	0.65
1:E:315:GLU:O	1:E:316:VAL:HG22	1.97	0.65
1:F:378:SER:N	1:F:422:ILE:HD11	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:413:LYS:O	1:G:421:SER:HB3	1.96	0.65
1:G:538:LEU:HG	1:G:571:GLU:OE2	1.97	0.65
1:H:914:VAL:HG22	1:H:917:TYR:O	1.97	0.65
1:I:11:GLN:HE21	1:I:70:GLU:HB3	1.60	0.65
1:I:314:ARG:C	1:I:315:GLU:HG3	2.15	0.65
1:I:482:GLU:O	1:I:485:THR:OG1	2.15	0.65
1:J:11:GLN:HE21	1:J:70:GLU:HB3	1.60	0.65
1:J:313:PRO:CG	1:J:338:TRP:HE1	2.07	0.65
1:L:464:ASP:O	1:L:468:TYR:CE2	2.49	0.65
1:M:315:GLU:O	1:M:316:VAL:HG22	1.97	0.65
1:M:538:LEU:HG	1:M:571:GLU:OE2	1.97	0.65
1:N:315:GLU:O	1:N:316:VAL:HG22	1.97	0.65
1:N:499:GLN:NE2	1:N:516:ASN:HB3	2.11	0.65
1:O:914:VAL:HG22	1:O:917:TYR:O	1.97	0.65
1:P:315:GLU:O	1:P:316:VAL:HG22	1.97	0.65
1:P:413:LYS:O	1:P:421:SER:HB3	1.96	0.65
1:B:315:GLU:O	1:B:316:VAL:HG22	1.97	0.65
1:B:482:GLU:O	1:B:485:THR:OG1	2.15	0.65
1:B:492:LEU:HD11	1:B:561:LEU:HD21	1.78	0.65
1:C:389:ILE:CD1	1:C:446:HIS:CE1	2.70	0.65
2:D:1501:DTP:H8	2:D:1501:DTP:O2A	1.97	0.65
1:E:405:LEU:HG	1:E:411:VAL:HG23	1.77	0.65
1:F:405:LEU:HG	1:F:411:VAL:HG23	1.77	0.65
1:F:482:GLU:O	1:F:485:THR:OG1	2.15	0.65
1:F:517:THR:HG23	1:F:518:LEU:H	1.62	0.65
1:G:266:THR:HG21	1:G:271:VAL:HB	1.78	0.65
1:G:482:GLU:O	1:G:485:THR:OG1	2.15	0.65
1:I:517:THR:HG23	1:I:518:LEU:H	1.62	0.65
1:J:1177:TYR:HE2	1:K:916:LYS:HE2	1.61	0.65
1:K:545:PHE:HZ	1:K:565:ALA:HA	1.57	0.65
1:L:517:THR:HG23	1:L:518:LEU:H	1.62	0.65
1:M:464:ASP:O	1:M:468:TYR:CE2	2.49	0.65
1:M:1214:LEU:HB3	1:M:1223:GLN:HA	1.78	0.65
1:N:373:SER:OG	1:N:433:LEU:HB2	1.97	0.65
1:O:317:LEU:CD2	1:O:341:TRP:CZ2	2.79	0.65
1:P:538:LEU:HG	1:P:571:GLU:OE2	1.97	0.65
1:A:317:LEU:CD2	1:A:341:TRP:CZ2	2.79	0.65
1:C:482:GLU:O	1:C:485:THR:OG1	2.15	0.65
1:C:517:THR:HG23	1:C:518:LEU:H	1.62	0.65
1:C:538:LEU:HG	1:C:571:GLU:OE2	1.97	0.65
1:E:313:PRO:CG	1:E:338:TRP:HE1	2.07	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:373:SER:OG	1:G:433:LEU:HB2	1.97	0.65
1:G:378:SER:N	1:G:422:ILE:HD11	2.10	0.65
1:H:317:LEU:CD2	1:H:341:TRP:CZ2	2.79	0.65
1:H:492:LEU:HD11	1:H:561:LEU:HD21	1.78	0.65
1:I:315:GLU:O	1:I:316:VAL:HG22	1.97	0.65
1:I:447:TYR:OH	1:I:486:LEU:HD23	1.97	0.65
1:J:315:GLU:O	1:J:316:VAL:HG22	1.97	0.65
1:J:405:LEU:HG	1:J:411:VAL:HG23	1.77	0.65
1:K:314:ARG:C	1:K:315:GLU:HG3	2.16	0.65
1:L:378:SER:N	1:L:422:ILE:HD11	2.10	0.65
1:L:499:GLN:NE2	1:L:516:ASN:HB3	2.11	0.65
1:L:538:LEU:HG	1:L:571:GLU:OE2	1.97	0.65
1:M:482:GLU:O	1:M:485:THR:OG1	2.15	0.65
1:N:464:ASP:O	1:N:468:TYR:CE2	2.49	0.65
1:O:266:THR:HG21	1:O:271:VAL:HB	1.78	0.65
1:P:266:THR:HG21	1:P:271:VAL:HB	1.78	0.65
1:P:482:GLU:O	1:P:485:THR:OG1	2.15	0.65
1:B:914:VAL:CG2	1:B:917:TYR:O	2.44	0.65
1:B:914:VAL:HG22	1:B:917:TYR:O	1.97	0.65
1:B:1214:LEU:HB3	1:B:1223:GLN:HA	1.78	0.65
2:B:1501:DTP:H8	2:B:1501:DTP:O2A	1.97	0.65
1:D:314:ARG:C	1:D:315:GLU:HG3	2.15	0.65
1:F:315:GLU:O	1:F:316:VAL:HG22	1.97	0.65
1:F:637:LEU:O	1:F:638:GLU:CB	2.43	0.65
1:H:266:THR:HG21	1:H:271:VAL:HB	1.78	0.65
1:H:317:LEU:C	1:H:318:THR:HG1	1.94	0.65
1:M:492:LEU:HD11	1:M:561:LEU:HD21	1.78	0.65
1:M:914:VAL:CG2	1:M:917:TYR:O	2.44	0.65
1:M:914:VAL:HG22	1:M:917:TYR:O	1.97	0.65
2:M:1501:DTP:O1A	2:M:1501:DTP:H8	1.97	0.65
1:N:317:LEU:CD2	1:N:341:TRP:CZ2	2.79	0.65
2:N:1501:DTP:O1A	2:N:1501:DTP:H8	1.97	0.65
1:P:378:SER:N	1:P:422:ILE:HD11	2.10	0.65
1:C:447:TYR:OH	1:C:486:LEU:HD23	1.97	0.65
1:C:1214:LEU:HB3	1:C:1223:GLN:HA	1.78	0.65
1:D:383:THR:HG23	1:D:419:THR:CA	2.27	0.65
1:D:545:PHE:HZ	1:D:565:ALA:HA	1.57	0.65
1:E:482:GLU:O	1:E:485:THR:OG1	2.15	0.65
1:F:314:ARG:C	1:F:315:GLU:HG3	2.15	0.65
1:G:451:LYS:HD3	1:G:486:LEU:CD2	2.26	0.65
1:I:373:SER:OG	1:I:433:LEU:HB2	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:482:GLU:O	1:J:485:THR:OG1	2.15	0.65
1:L:383:THR:HG23	1:L:419:THR:CA	2.27	0.65
1:L:1214:LEU:HB3	1:L:1223:GLN:HA	1.78	0.65
1:N:447:TYR:OH	1:N:486:LEU:HD23	1.97	0.65
1:O:317:LEU:C	1:O:318:THR:HG1	1.94	0.65
1:O:538:LEU:HG	1:O:571:GLU:OE2	1.97	0.65
1:P:373:SER:OG	1:P:433:LEU:HB2	1.97	0.65
1:A:447:TYR:OH	1:A:486:LEU:HD23	1.97	0.64
1:A:482:GLU:O	1:A:485:THR:OG1	2.15	0.64
2:A:1501:DTP:H8	2:A:1501:DTP:O2A	1.97	0.64
1:B:499:GLN:NE2	1:B:516:ASN:HB3	2.11	0.64
1:E:378:SER:N	1:E:422:ILE:HD11	2.10	0.64
1:E:447:TYR:OH	1:E:486:LEU:HD23	1.97	0.64
1:F:373:SER:OG	1:F:433:LEU:HB2	1.97	0.64
1:H:378:SER:N	1:H:422:ILE:HD11	2.10	0.64
1:H:538:LEU:HG	1:H:571:GLU:OE2	1.97	0.64
1:J:447:TYR:OH	1:J:486:LEU:HD23	1.97	0.64
1:K:383:THR:HG23	1:K:419:THR:CA	2.27	0.64
1:K:413:LYS:O	1:K:421:SER:HB3	1.95	0.64
1:M:499:GLN:NE2	1:M:516:ASN:HB3	2.11	0.64
1:O:492:LEU:HD11	1:O:561:LEU:HD21	1.78	0.64
1:P:451:LYS:HD3	1:P:486:LEU:CD2	2.26	0.64
1:A:378:SER:N	1:A:422:ILE:HD11	2.10	0.64
1:A:538:LEU:HG	1:A:571:GLU:OE2	1.97	0.64
2:C:1501:DTP:O2A	2:C:1501:DTP:H8	1.97	0.64
1:D:378:SER:N	1:D:422:ILE:HD11	2.10	0.64
1:E:53:ASP:O	1:E:57:GLY:N	2.27	0.64
1:E:373:SER:OG	1:E:433:LEU:HB2	1.97	0.64
1:E:520:GLN:HB3	1:E:524:TYR:OH	1.95	0.64
1:F:447:TYR:OH	1:F:486:LEU:HD23	1.97	0.64
1:F:547:PRO:HB2	1:F:603:ILE:HA	1.80	0.64
1:G:547:PRO:HB2	1:G:603:ILE:HA	1.80	0.64
1:H:373:SER:OG	1:H:433:LEU:HB2	1.97	0.64
1:I:378:SER:N	1:I:422:ILE:HD11	2.10	0.64
1:I:499:GLN:NE2	1:I:516:ASN:HB3	2.11	0.64
1:J:492:LEU:HD11	1:J:561:LEU:HD21	1.78	0.64
1:J:520:GLN:HB3	1:J:524:TYR:OH	1.96	0.64
1:L:482:GLU:O	1:L:485:THR:OG1	2.15	0.64
1:M:313:PRO:CG	1:M:338:TRP:HE1	2.07	0.64
1:P:517:THR:HG23	1:P:518:LEU:H	1.62	0.64
1:P:545:PHE:HZ	1:P:565:ALA:HA	1.57	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:989:SER:HB2	1:A:1027:ASN:HD22	1.63	0.64
1:C:373:SER:OG	1:C:433:LEU:HB2	1.97	0.64
1:C:383:THR:HG23	1:C:419:THR:CA	2.27	0.64
2:E:1501:DTP:H8	2:E:1501:DTP:O2A	1.96	0.64
1:F:499:GLN:NE2	1:F:516:ASN:HB3	2.11	0.64
1:F:635:VAL:HB	1:F:641:ASP:OD1	1.98	0.64
1:I:547:PRO:HB2	1:I:603:ILE:HA	1.80	0.64
1:I:637:LEU:O	1:I:638:GLU:CB	2.43	0.64
1:J:373:SER:OG	1:J:433:LEU:HB2	1.97	0.64
1:J:378:SER:N	1:J:422:ILE:HD11	2.10	0.64
1:J:383:THR:HG23	1:J:419:THR:CA	2.27	0.64
1:K:382:PRO:CA	1:K:419:THR:HG22	2.23	0.64
1:L:373:SER:OG	1:L:433:LEU:HB2	1.97	0.64
1:L:492:LEU:HD11	1:L:561:LEU:HD21	1.78	0.64
1:N:482:GLU:O	1:N:485:THR:OG1	2.15	0.64
1:O:373:SER:OG	1:O:433:LEU:HB2	1.97	0.64
1:P:313:PRO:CG	1:P:338:TRP:HE1	2.07	0.64
1:P:547:PRO:HB2	1:P:603:ILE:HA	1.80	0.64
1:B:313:PRO:CG	1:B:338:TRP:HE1	2.08	0.64
1:E:383:THR:HG23	1:E:419:THR:CA	2.27	0.64
1:E:548:LYS:HZ2	1:E:601:GLN:N	1.96	0.64
1:G:383:THR:HG23	1:G:419:THR:CA	2.27	0.64
1:G:517:THR:HG23	1:G:518:LEU:H	1.62	0.64
1:H:547:PRO:HB2	1:H:603:ILE:HA	1.80	0.64
1:I:635:VAL:HB	1:I:641:ASP:OD1	1.98	0.64
1:J:635:VAL:HB	1:J:641:ASP:OD1	1.98	0.64
1:K:378:SER:N	1:K:422:ILE:HD11	2.11	0.64
1:L:447:TYR:OH	1:L:486:LEU:HD23	1.97	0.64
1:N:538:LEU:HG	1:N:571:GLU:OE2	1.97	0.64
1:N:989:SER:HB2	1:N:1027:ASN:HD22	1.63	0.64
1:O:378:SER:N	1:O:422:ILE:HD11	2.10	0.64
1:O:547:PRO:HB2	1:O:603:ILE:HA	1.80	0.64
1:P:383:THR:HG23	1:P:419:THR:CA	2.27	0.64
1:P:447:TYR:OH	1:P:486:LEU:HD23	1.97	0.64
1:A:53:ASP:O	1:A:57:GLY:N	2.27	0.64
1:C:499:GLN:NE2	1:C:516:ASN:HB3	2.11	0.64
1:D:413:LYS:O	1:D:421:SER:HB3	1.96	0.64
1:D:538:LEU:HG	1:D:571:GLU:OE2	1.97	0.64
1:E:104:ARG:HA	1:E:107:ILE:HG22	1.80	0.64
1:E:492:LEU:HD11	1:E:561:LEU:HD21	1.78	0.64
1:E:635:VAL:HB	1:E:641:ASP:OD1	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:914:VAL:HG22	1:F:917:TYR:O	1.97	0.64
1:G:447:TYR:OH	1:G:486:LEU:HD23	1.97	0.64
1:G:545:PHE:HZ	1:G:565:ALA:HA	1.58	0.64
1:H:482:GLU:O	1:H:485:THR:OG1	2.15	0.64
1:H:989:SER:HB2	1:H:1027:ASN:HD22	1.63	0.64
1:I:538:LEU:HG	1:I:571:GLU:OE2	1.97	0.64
2:J:1501:DTP:O1A	2:J:1501:DTP:H8	1.97	0.64
1:K:464:ASP:O	1:K:468:TYR:HE2	1.81	0.64
1:L:464:ASP:O	1:L:468:TYR:HE2	1.81	0.64
2:L:1501:DTP:H8	2:L:1501:DTP:O1A	1.97	0.64
1:M:989:SER:HB2	1:M:1027:ASN:HD22	1.63	0.64
1:N:378:SER:N	1:N:422:ILE:HD11	2.10	0.64
1:O:482:GLU:O	1:O:485:THR:OG1	2.15	0.64
1:O:989:SER:HB2	1:O:1027:ASN:HD22	1.63	0.64
2:O:1501:DTP:O1A	2:O:1501:DTP:H8	1.96	0.64
1:A:547:PRO:HB2	1:A:603:ILE:HA	1.80	0.64
1:B:464:ASP:O	1:B:468:TYR:HE2	1.81	0.64
1:B:989:SER:HB2	1:B:1027:ASN:HD22	1.63	0.64
1:C:464:ASP:O	1:C:468:TYR:HE2	1.81	0.64
1:D:464:ASP:O	1:D:468:TYR:HE2	1.81	0.64
1:G:313:PRO:CG	1:G:338:TRP:HE1	2.08	0.64
1:I:104:ARG:HA	1:I:107:ILE:HG22	1.80	0.64
1:I:914:VAL:HG22	1:I:917:TYR:O	1.97	0.64
1:J:548:LYS:HZ2	1:J:601:GLN:N	1.96	0.64
1:K:104:ARG:HA	1:K:107:ILE:HG22	1.80	0.64
1:K:538:LEU:HG	1:K:571:GLU:OE2	1.97	0.64
1:L:314:ARG:C	1:L:315:GLU:HG3	2.16	0.64
1:M:464:ASP:O	1:M:468:TYR:HE2	1.81	0.64
1:N:53:ASP:O	1:N:57:GLY:N	2.27	0.64
1:B:447:TYR:OH	1:B:486:LEU:HD23	1.97	0.64
1:D:373:SER:OG	1:D:433:LEU:HB2	1.97	0.64
1:D:382:PRO:CA	1:D:419:THR:HG22	2.24	0.64
1:F:383:THR:HG23	1:F:419:THR:CA	2.27	0.64
1:H:383:THR:HG23	1:H:419:THR:CA	2.27	0.64
1:H:447:TYR:OH	1:H:486:LEU:HD23	1.97	0.64
2:H:1501:DTP:H8	2:H:1501:DTP:O2A	1.96	0.64
1:J:104:ARG:HA	1:J:107:ILE:HG22	1.80	0.64
1:K:165:CYS:SG	1:K:178:ILE:HD13	2.38	0.64
1:L:104:ARG:HA	1:L:107:ILE:HG22	1.80	0.64
1:L:208:THR:OG1	1:L:210:ARG:NH1	2.31	0.64
1:N:165:CYS:SG	1:N:178:ILE:HD13	2.38	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:547:PRO:HB2	1:N:603:ILE:HA	1.80	0.64
1:A:121:ALA:HB1	1:B:276:SER:CB	2.20	0.64
1:A:165:CYS:SG	1:A:178:ILE:HD13	2.38	0.64
1:A:333:ASP:OD2	1:B:403:ASN:ND2	2.31	0.64
1:C:208:THR:OG1	1:C:210:ARG:NH1	2.31	0.64
1:C:492:LEU:HD11	1:C:561:LEU:HD21	1.78	0.64
1:C:587:ARG:HG3	1:C:588:VAL:H	1.63	0.64
1:D:104:ARG:HA	1:D:107:ILE:HG22	1.80	0.64
1:D:165:CYS:SG	1:D:178:ILE:HD13	2.38	0.64
1:D:208:THR:OG1	1:D:210:ARG:NH1	2.31	0.64
1:D:635:VAL:HB	1:D:641:ASP:OD1	1.98	0.64
1:E:464:ASP:O	1:E:468:TYR:HE2	1.81	0.64
1:E:538:LEU:HG	1:E:571:GLU:OE2	1.97	0.64
1:E:547:PRO:HB2	1:E:603:ILE:HA	1.80	0.64
1:F:104:ARG:HA	1:F:107:ILE:HG22	1.80	0.64
1:F:451:LYS:HD3	1:F:486:LEU:CD2	2.26	0.64
1:F:538:LEU:HG	1:F:571:GLU:OE2	1.97	0.64
1:G:548:LYS:NZ	1:G:601:GLN:CA	2.61	0.64
1:G:914:VAL:HG22	1:G:917:TYR:O	1.97	0.64
1:H:165:CYS:SG	1:H:178:ILE:HD13	2.38	0.64
1:H:386:LEU:CD1	1:H:420:ILE:HD13	2.28	0.64
1:J:464:ASP:O	1:J:468:TYR:HE2	1.81	0.64
1:J:989:SER:HB2	1:J:1027:ASN:HD22	1.63	0.64
1:K:208:THR:OG1	1:K:210:ARG:NH1	2.31	0.64
1:K:373:SER:OG	1:K:433:LEU:HB2	1.97	0.64
1:K:447:TYR:OH	1:K:486:LEU:HD23	1.97	0.64
1:K:635:VAL:HB	1:K:641:ASP:OD1	1.98	0.64
1:L:635:VAL:HB	1:L:641:ASP:OD1	1.98	0.64
1:M:517:THR:HG23	1:M:518:LEU:H	1.62	0.64
1:N:464:ASP:O	1:N:468:TYR:HE2	1.81	0.64
1:O:165:CYS:SG	1:O:178:ILE:HD13	2.38	0.64
1:O:208:THR:OG1	1:O:210:ARG:NH1	2.31	0.64
1:O:383:THR:HG23	1:O:419:THR:CA	2.27	0.64
1:O:386:LEU:CD1	1:O:420:ILE:HD13	2.28	0.64
1:O:447:TYR:OH	1:O:486:LEU:HD23	1.97	0.64
1:O:635:VAL:HB	1:O:641:ASP:OD1	1.98	0.64
1:B:383:THR:HG23	1:B:419:THR:CA	2.27	0.64
1:B:517:THR:HG23	1:B:518:LEU:H	1.62	0.64
1:C:104:ARG:HA	1:C:107:ILE:HG22	1.80	0.64
1:C:437:TYR:O	1:C:441:ARG:NH1	2.31	0.64
1:C:989:SER:HB2	1:C:1027:ASN:HD22	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:482:GLU:O	1:D:485:THR:OG1	2.15	0.64
1:E:208:THR:OG1	1:E:210:ARG:NH1	2.31	0.64
1:E:989:SER:HB2	1:E:1027:ASN:HD22	1.63	0.64
1:G:104:ARG:HA	1:G:107:ILE:HG22	1.80	0.64
1:H:208:THR:OG1	1:H:210:ARG:NH1	2.31	0.64
1:H:635:VAL:HB	1:H:641:ASP:OD1	1.98	0.64
1:J:437:TYR:O	1:J:441:ARG:NH1	2.31	0.64
1:J:538:LEU:HG	1:J:571:GLU:OE2	1.97	0.64
1:J:547:PRO:HB2	1:J:603:ILE:HA	1.80	0.64
1:K:989:SER:HB2	1:K:1027:ASN:HD22	1.63	0.64
1:M:383:THR:HG23	1:M:419:THR:CA	2.27	0.64
1:M:447:TYR:OH	1:M:486:LEU:HD23	1.97	0.64
1:O:499:GLN:HB2	1:O:520:GLN:HE22	1.63	0.64
1:P:548:LYS:NZ	1:P:601:GLN:CA	2.61	0.64
1:P:914:VAL:HG22	1:P:917:TYR:O	1.97	0.64
1:P:989:SER:HB2	1:P:1027:ASN:HD22	1.63	0.64
1:A:386:LEU:CD1	1:A:420:ILE:HD13	2.28	0.64
1:B:437:TYR:O	1:B:441:ARG:NH1	2.31	0.64
1:D:447:TYR:OH	1:D:486:LEU:HD23	1.97	0.64
1:D:914:VAL:HG22	1:D:917:TYR:O	1.97	0.64
1:D:989:SER:HB2	1:D:1027:ASN:HD22	1.63	0.64
1:E:165:CYS:SG	1:E:178:ILE:HD13	2.38	0.64
1:E:437:TYR:O	1:E:441:ARG:NH1	2.31	0.64
1:F:208:THR:OG1	1:F:210:ARG:NH1	2.31	0.64
1:G:989:SER:HB2	1:G:1027:ASN:HD22	1.63	0.64
1:H:104:ARG:HA	1:H:107:ILE:HG22	1.80	0.64
1:H:315:GLU:O	1:H:316:VAL:HG22	1.97	0.64
1:I:383:THR:HG23	1:I:419:THR:CA	2.27	0.64
1:I:548:LYS:HZ2	1:I:601:GLN:N	1.96	0.64
1:J:208:THR:OG1	1:J:210:ARG:NH1	2.31	0.64
1:N:386:LEU:CD1	1:N:420:ILE:HD13	2.28	0.64
1:O:315:GLU:O	1:O:316:VAL:HG22	1.97	0.64
1:P:104:ARG:HA	1:P:107:ILE:HG22	1.80	0.64
1:A:475:LEU:HD23	1:A:478:ILE:HD12	1.80	0.63
1:A:517:THR:HG23	1:A:518:LEU:H	1.62	0.63
1:B:208:THR:OG1	1:B:210:ARG:NH1	2.31	0.63
1:D:603:ILE:HD11	1:D:635:VAL:CG1	2.29	0.63
1:H:499:GLN:HB2	1:H:520:GLN:HE22	1.64	0.63
1:J:165:CYS:SG	1:J:178:ILE:HD13	2.38	0.63
1:K:437:TYR:O	1:K:441:ARG:NH1	2.31	0.63
1:K:482:GLU:O	1:K:485:THR:OG1	2.15	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:603:ILE:HD11	1:K:635:VAL:CG1	2.29	0.63
1:L:587:ARG:HG3	1:L:588:VAL:H	1.63	0.63
1:M:165:CYS:SG	1:M:178:ILE:HD13	2.38	0.63
1:M:437:TYR:O	1:M:441:ARG:NH1	2.31	0.63
1:O:104:ARG:HA	1:O:107:ILE:HG22	1.80	0.63
1:A:208:THR:OG1	1:A:210:ARG:NH1	2.31	0.63
1:A:635:VAL:HB	1:A:641:ASP:OD1	1.98	0.63
1:A:914:VAL:HG22	1:A:917:TYR:O	1.97	0.63
1:B:165:CYS:SG	1:B:178:ILE:HD13	2.38	0.63
1:B:603:ILE:HD11	1:B:635:VAL:CG1	2.29	0.63
1:D:437:TYR:O	1:D:441:ARG:NH1	2.31	0.63
1:F:165:CYS:SG	1:F:178:ILE:HD13	2.38	0.63
1:I:208:THR:OG1	1:I:210:ARG:NH1	2.31	0.63
1:J:386:LEU:CD1	1:J:420:ILE:HD13	2.28	0.63
1:K:914:VAL:HG22	1:K:917:TYR:O	1.97	0.63
1:L:165:CYS:SG	1:L:178:ILE:HD13	2.38	0.63
1:L:437:TYR:O	1:L:441:ARG:NH1	2.31	0.63
1:M:208:THR:OG1	1:M:210:ARG:NH1	2.31	0.63
1:M:603:ILE:HD11	1:M:635:VAL:CG1	2.29	0.63
1:N:517:THR:HG23	1:N:518:LEU:H	1.62	0.63
1:A:548:LYS:NZ	1:A:601:GLN:CA	2.61	0.63
1:C:165:CYS:SG	1:C:178:ILE:HD13	2.38	0.63
1:E:386:LEU:CD1	1:E:420:ILE:HD13	2.28	0.63
1:F:548:LYS:HZ2	1:F:601:GLN:N	1.96	0.63
1:G:208:THR:OG1	1:G:210:ARG:NH1	2.31	0.63
1:G:386:LEU:CD1	1:G:420:ILE:HD13	2.28	0.63
1:H:552:ASN:HB3	1:H:1226:TYR:HE1	1.64	0.63
1:H:603:ILE:HD11	1:H:635:VAL:CG1	2.29	0.63
1:J:411:VAL:O	1:J:423:PRO:HB3	1.99	0.63
1:L:552:ASN:HB3	1:L:1226:TYR:HE1	1.64	0.63
1:L:989:SER:HB2	1:L:1027:ASN:HD22	1.63	0.63
1:N:104:ARG:HA	1:N:107:ILE:HG22	1.80	0.63
1:N:208:THR:OG1	1:N:210:ARG:NH1	2.31	0.63
1:N:383:THR:HG23	1:N:419:THR:CA	2.27	0.63
1:N:475:LEU:HD23	1:N:478:ILE:HD12	1.80	0.63
1:O:603:ILE:HD11	1:O:635:VAL:CG1	2.29	0.63
1:P:208:THR:OG1	1:P:210:ARG:NH1	2.31	0.63
1:A:383:THR:HG23	1:A:419:THR:CA	2.27	0.63
1:A:587:ARG:HG3	1:A:588:VAL:H	1.63	0.63
1:B:104:ARG:HA	1:B:107:ILE:HG22	1.80	0.63
1:B:378:SER:N	1:B:422:ILE:HD11	2.10	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:548:LYS:HZ2	1:C:601:GLN:N	1.96	0.63
1:C:552:ASN:HB3	1:C:1226:TYR:HE1	1.64	0.63
1:C:635:VAL:HB	1:C:641:ASP:OD1	1.98	0.63
1:E:411:VAL:O	1:E:423:PRO:HB3	1.99	0.63
1:F:41:SER:HB3	1:F:44:GLU:HG2	1.81	0.63
1:G:548:LYS:HZ2	1:G:601:GLN:N	1.96	0.63
1:I:437:TYR:O	1:I:441:ARG:NH1	2.31	0.63
1:I:451:LYS:HD3	1:I:486:LEU:CD2	2.26	0.63
1:M:104:ARG:HA	1:M:107:ILE:HG22	1.80	0.63
1:M:378:SER:N	1:M:422:ILE:HD11	2.10	0.63
1:M:547:PRO:HB2	1:M:603:ILE:HA	1.80	0.63
1:N:914:VAL:HG22	1:N:917:TYR:O	1.97	0.63
1:O:552:ASN:HB3	1:O:1226:TYR:HE1	1.64	0.63
1:P:386:LEU:CD1	1:P:420:ILE:HD13	2.28	0.63
1:B:547:PRO:HB2	1:B:603:ILE:HA	1.80	0.63
1:C:41:SER:HB3	1:C:44:GLU:HG2	1.81	0.63
1:F:437:TYR:O	1:F:441:ARG:NH1	2.31	0.63
1:F:603:ILE:HD11	1:F:635:VAL:CG1	2.29	0.63
1:F:989:SER:HB2	1:F:1027:ASN:HD22	1.63	0.63
1:G:552:ASN:HB3	1:G:1226:TYR:HE1	1.63	0.63
2:G:1501:DTP:H8	2:G:1501:DTP:O2A	1.97	0.63
1:H:314:ARG:C	1:H:315:GLU:HG3	2.15	0.63
1:I:41:SER:HB3	1:I:44:GLU:HG2	1.81	0.63
1:I:165:CYS:SG	1:I:178:ILE:HD13	2.38	0.63
1:I:475:LEU:HD23	1:I:478:ILE:HD12	1.80	0.63
1:I:603:ILE:HD11	1:I:635:VAL:CG1	2.29	0.63
1:J:914:VAL:HG22	1:J:917:TYR:O	1.97	0.63
1:K:548:LYS:HZ2	1:K:601:GLN:N	1.96	0.63
1:L:41:SER:HB3	1:L:44:GLU:HG2	1.81	0.63
1:N:548:LYS:NZ	1:N:601:GLN:CA	2.61	0.63
1:N:635:VAL:HB	1:N:641:ASP:OD1	1.98	0.63
1:P:552:ASN:HB3	1:P:1226:TYR:HE1	1.64	0.63
1:A:104:ARG:HA	1:A:107:ILE:HG22	1.80	0.63
1:B:386:LEU:CD1	1:B:420:ILE:HD13	2.28	0.63
1:B:475:LEU:HD23	1:B:478:ILE:HD12	1.80	0.63
1:D:386:LEU:CD1	1:D:420:ILE:HD13	2.28	0.63
1:D:411:VAL:O	1:D:423:PRO:HB3	1.99	0.63
1:F:475:LEU:HD23	1:F:478:ILE:HD12	1.80	0.63
1:F:499:GLN:HB2	1:F:520:GLN:HE22	1.63	0.63
1:G:635:VAL:HB	1:G:641:ASP:OD1	1.98	0.63
1:H:437:TYR:O	1:H:441:ARG:NH1	2.31	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:198:LYS:NZ	1:P:222:HIS:CG	2.66	0.63
1:I:499:GLN:HB2	1:I:520:GLN:HE22	1.63	0.63
1:K:411:VAL:O	1:K:423:PRO:HB3	1.99	0.63
1:K:547:PRO:HB2	1:K:603:ILE:HA	1.80	0.63
1:L:411:VAL:O	1:L:423:PRO:HB3	1.99	0.63
1:L:547:PRO:HB2	1:L:603:ILE:HA	1.80	0.63
1:L:914:VAL:HG22	1:L:917:TYR:O	1.97	0.63
1:M:386:LEU:CD1	1:M:420:ILE:HD13	2.28	0.63
1:M:587:ARG:HG3	1:M:588:VAL:H	1.63	0.63
1:N:587:ARG:HG3	1:N:588:VAL:H	1.63	0.63
1:O:437:TYR:O	1:O:441:ARG:NH1	2.31	0.63
1:P:548:LYS:HZ2	1:P:601:GLN:N	1.96	0.63
1:P:635:VAL:HB	1:P:641:ASP:OD1	1.98	0.63
1:A:437:TYR:O	1:A:441:ARG:NH1	2.31	0.63
1:B:587:ARG:HG3	1:B:588:VAL:H	1.63	0.63
1:C:371:ARG:HG3	1:C:390:TRP:CD1	2.34	0.63
1:D:547:PRO:HB2	1:D:603:ILE:HA	1.80	0.63
1:D:548:LYS:HZ2	1:D:601:GLN:N	1.96	0.63
1:E:378:SER:H	1:E:422:ILE:HD13	1.61	0.63
1:E:499:GLN:HB2	1:E:520:GLN:HE22	1.63	0.63
1:E:914:VAL:HG22	1:E:917:TYR:O	1.97	0.63
1:G:411:VAL:O	1:G:423:PRO:HB3	1.99	0.63
1:J:41:SER:HB3	1:J:44:GLU:HG2	1.81	0.63
1:J:499:GLN:HB2	1:J:520:GLN:HE22	1.63	0.63
1:K:386:LEU:CD1	1:K:420:ILE:HD13	2.28	0.63
1:L:371:ARG:HG3	1:L:390:TRP:CD1	2.34	0.63
1:L:548:LYS:HZ2	1:L:601:GLN:N	1.96	0.63
1:M:475:LEU:HD23	1:M:478:ILE:HD12	1.80	0.63
1:P:411:VAL:O	1:P:423:PRO:HB3	1.99	0.63
2:P:1501:DTP:O1A	2:P:1501:DTP:H8	1.97	0.63
1:A:252:ALA:O	1:A:255:ALA:N	2.25	0.63
1:C:411:VAL:O	1:C:423:PRO:HB3	1.99	0.63
1:E:475:LEU:HD23	1:E:478:ILE:HD12	1.80	0.63
1:G:165:CYS:SG	1:G:178:ILE:HD13	2.38	0.63
1:I:989:SER:HB2	1:I:1027:ASN:HD22	1.63	0.63
1:K:371:ARG:HG3	1:K:390:TRP:CD1	2.34	0.63
1:L:458:LEU:CB	1:L:587:ARG:HH21	2.12	0.63
1:N:41:SER:HB3	1:N:44:GLU:HG2	1.81	0.63
1:O:314:ARG:C	1:O:315:GLU:HG3	2.16	0.63
1:P:165:CYS:SG	1:P:178:ILE:HD13	2.38	0.63
1:A:41:SER:HB3	1:A:44:GLU:HG2	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LEU:CB	1:A:587:ARG:HH21	2.12	0.63
1:A:603:ILE:HD11	1:A:635:VAL:CG1	2.29	0.63
1:B:517:THR:HA	1:B:520:GLN:CD	2.20	0.63
1:C:914:VAL:HG22	1:C:917:TYR:O	1.97	0.63
1:D:371:ARG:HG3	1:D:390:TRP:CD1	2.34	0.63
1:D:499:GLN:HB2	1:D:520:GLN:HE22	1.63	0.63
1:E:913:PRO:O	1:E:914:VAL:HG12	1.99	0.63
1:G:475:LEU:HD23	1:G:478:ILE:HD12	1.80	0.63
1:G:637:LEU:O	1:G:638:GLU:CB	2.43	0.63
1:H:475:LEU:HD23	1:H:478:ILE:HD12	1.80	0.63
1:J:475:LEU:HD23	1:J:478:ILE:HD12	1.80	0.63
1:J:913:PRO:O	1:J:914:VAL:HG12	1.99	0.63
1:K:499:GLN:HB2	1:K:520:GLN:HE22	1.63	0.63
1:N:216:ASN:ND2	1:O:194:GLU:OE2	2.32	0.63
1:N:252:ALA:O	1:N:255:ALA:N	2.25	0.63
1:N:437:TYR:O	1:N:441:ARG:NH1	2.31	0.63
1:N:458:LEU:CB	1:N:587:ARG:HH21	2.12	0.63
1:O:915:TYR:O	1:O:916:LYS:CB	2.47	0.63
1:A:371:ARG:HG3	1:A:390:TRP:CD1	2.34	0.62
1:A:913:PRO:O	1:A:914:VAL:HG12	1.99	0.62
1:B:838:ARG:HB2	1:B:847:VAL:HB	1.81	0.62
1:C:499:GLN:HB2	1:C:520:GLN:HE22	1.64	0.62
1:C:547:PRO:HB2	1:C:603:ILE:HA	1.80	0.62
1:D:41:SER:HB3	1:D:44:GLU:HG2	1.81	0.62
1:E:41:SER:HB3	1:E:44:GLU:HG2	1.81	0.62
1:F:53:ASP:O	1:F:57:GLY:N	2.27	0.62
1:F:371:ARG:HG3	1:F:390:TRP:CD1	2.34	0.62
1:F:386:LEU:CD1	1:F:420:ILE:HD13	2.28	0.62
1:F:548:LYS:NZ	1:F:601:GLN:CA	2.61	0.62
1:G:41:SER:HB3	1:G:44:GLU:HG2	1.81	0.62
1:G:437:TYR:O	1:G:441:ARG:NH1	2.31	0.62
1:H:41:SER:HB3	1:H:44:GLU:HG2	1.81	0.62
1:H:838:ARG:HB2	1:H:847:VAL:HB	1.81	0.62
1:H:915:TYR:O	1:H:916:LYS:CB	2.47	0.62
1:I:552:ASN:HB3	1:I:1226:TYR:HE1	1.64	0.62
1:J:371:ARG:HG3	1:J:390:TRP:CD1	2.34	0.62
1:L:499:GLN:HB2	1:L:520:GLN:HE22	1.63	0.62
1:M:517:THR:HA	1:M:520:GLN:CD	2.20	0.62
1:N:371:ARG:HG3	1:N:390:TRP:CD1	2.34	0.62
1:N:603:ILE:HD11	1:N:635:VAL:CG1	2.29	0.62
1:N:913:PRO:O	1:N:914:VAL:HG12	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:475:LEU:HD23	1:O:478:ILE:HD12	1.80	0.62
1:O:838:ARG:HB2	1:O:847:VAL:HB	1.81	0.62
1:P:41:SER:HB3	1:P:44:GLU:HG2	1.81	0.62
1:P:371:ARG:HG3	1:P:390:TRP:CD1	2.34	0.62
1:P:475:LEU:HD23	1:P:478:ILE:HD12	1.80	0.62
1:P:499:GLN:HB2	1:P:520:GLN:HE22	1.63	0.62
1:A:411:VAL:O	1:A:423:PRO:HB3	1.99	0.62
1:A:517:THR:HA	1:A:520:GLN:CD	2.20	0.62
1:B:41:SER:HB3	1:B:44:GLU:HG2	1.81	0.62
1:C:458:LEU:CB	1:C:587:ARG:HH21	2.12	0.62
1:D:194:GLU:OE2	1:E:216:ASN:ND2	2.33	0.62
1:E:371:ARG:HG3	1:E:390:TRP:CD1	2.34	0.62
1:F:464:ASP:O	1:F:468:TYR:HE2	1.81	0.62
1:G:371:ARG:HG3	1:G:390:TRP:CD1	2.34	0.62
1:G:458:LEU:CB	1:G:587:ARG:HH21	2.12	0.62
1:G:499:GLN:HB2	1:G:520:GLN:HE22	1.63	0.62
1:I:371:ARG:HG3	1:I:390:TRP:CD1	2.34	0.62
1:J:518:LEU:HD22	1:J:643:TYR:CE1	2.22	0.62
1:K:913:PRO:O	1:K:914:VAL:HG12	1.99	0.62
1:M:552:ASN:HB3	1:M:1226:TYR:HE1	1.64	0.62
1:M:838:ARG:HB2	1:M:847:VAL:HB	1.81	0.62
1:N:411:VAL:O	1:N:423:PRO:HB3	1.99	0.62
1:P:437:TYR:O	1:P:441:ARG:NH1	2.31	0.62
1:P:458:LEU:CB	1:P:587:ARG:HH21	2.12	0.62
1:P:637:LEU:O	1:P:638:GLU:CB	2.43	0.62
1:A:499:GLN:HB2	1:A:520:GLN:HE22	1.63	0.62
1:A:548:LYS:HG2	1:A:601:GLN:HA	1.81	0.62
1:B:499:GLN:HB2	1:B:520:GLN:HE22	1.63	0.62
1:B:548:LYS:HG2	1:B:601:GLN:HA	1.81	0.62
1:C:517:THR:HA	1:C:520:GLN:CD	2.20	0.62
1:D:913:PRO:O	1:D:914:VAL:HG12	1.99	0.62
1:F:312:LEU:CD2	1:F:313:PRO:HD2	2.30	0.62
1:G:517:THR:HA	1:G:520:GLN:CD	2.19	0.62
1:I:411:VAL:O	1:I:423:PRO:HB3	1.99	0.62
1:K:41:SER:HB3	1:K:44:GLU:HG2	1.81	0.62
1:M:41:SER:HB3	1:M:44:GLU:HG2	1.81	0.62
1:M:499:GLN:HB2	1:M:520:GLN:HE22	1.63	0.62
1:N:548:LYS:HG2	1:N:601:GLN:HA	1.81	0.62
1:O:41:SER:HB3	1:O:44:GLU:HG2	1.81	0.62
1:A:915:TYR:O	1:A:916:LYS:CB	2.47	0.62
1:C:603:ILE:HD11	1:C:635:VAL:CG1	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:451:LYS:HD3	1:E:486:LEU:CD2	2.26	0.62
1:E:552:ASN:HB3	1:E:1226:TYR:HE1	1.64	0.62
1:F:411:VAL:O	1:F:423:PRO:HB3	1.99	0.62
1:F:552:ASN:HB3	1:F:1226:TYR:HE1	1.64	0.62
1:I:53:ASP:O	1:I:57:GLY:N	2.27	0.62
1:I:198:LYS:HZ1	1:P:222:HIS:CG	2.17	0.62
1:J:552:ASN:HB3	1:J:1226:TYR:HE1	1.64	0.62
1:L:312:LEU:CD2	1:L:313:PRO:HD2	2.30	0.62
1:M:548:LYS:HG2	1:M:601:GLN:HA	1.81	0.62
1:N:517:THR:HA	1:N:520:GLN:CD	2.19	0.62
1:N:915:TYR:O	1:N:916:LYS:CB	2.47	0.62
1:O:411:VAL:O	1:O:423:PRO:HB3	1.99	0.62
1:P:517:THR:HA	1:P:520:GLN:CD	2.20	0.62
1:B:552:ASN:HB3	1:B:1226:TYR:HE1	1.64	0.62
1:D:552:ASN:HB3	1:D:1226:TYR:HE1	1.64	0.62
1:G:603:ILE:HD11	1:G:635:VAL:CG1	2.29	0.62
1:H:548:LYS:HZ2	1:H:601:GLN:N	1.97	0.62
1:I:312:LEU:CD2	1:I:313:PRO:HD2	2.30	0.62
1:I:386:LEU:CD1	1:I:420:ILE:HD13	2.28	0.62
1:K:378:SER:H	1:K:422:ILE:HD13	1.62	0.62
1:L:517:THR:HA	1:L:520:GLN:CD	2.19	0.62
1:M:635:VAL:HB	1:M:641:ASP:OD1	1.98	0.62
1:N:313:PRO:CG	1:N:338:TRP:HE1	2.07	0.62
1:O:548:LYS:HZ2	1:O:601:GLN:N	1.97	0.62
1:O:587:ARG:HG3	1:O:588:VAL:H	1.63	0.62
1:P:603:ILE:HD11	1:P:635:VAL:CG1	2.29	0.62
1:A:552:ASN:HB3	1:A:1226:TYR:HE1	1.64	0.62
1:B:411:VAL:O	1:B:423:PRO:HB3	1.99	0.62
1:B:548:LYS:HZ2	1:B:601:GLN:N	1.96	0.62
1:B:635:VAL:HB	1:B:641:ASP:OD1	1.98	0.62
1:C:244:LEU:HD21	1:C:256:PHE:HD2	1.64	0.62
1:D:312:LEU:CD2	1:D:313:PRO:HD2	2.30	0.62
1:F:913:PRO:O	1:F:914:VAL:HG12	1.99	0.62
1:G:312:LEU:CD2	1:G:313:PRO:HD2	2.30	0.62
1:H:371:ARG:HG3	1:H:390:TRP:CD1	2.34	0.62
1:H:411:VAL:O	1:H:423:PRO:HB3	1.99	0.62
1:H:517:THR:HA	1:H:520:GLN:CD	2.19	0.62
1:I:216:ASN:ND2	1:J:194:GLU:OE2	2.33	0.62
1:I:464:ASP:O	1:I:468:TYR:HE2	1.81	0.62
1:I:517:THR:HA	1:I:520:GLN:CD	2.19	0.62
1:I:548:LYS:NZ	1:I:601:GLN:CA	2.61	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:451:LYS:HD3	1:J:486:LEU:CD2	2.26	0.62
1:K:276:SER:OG	1:L:122:LYS:HG3	2.00	0.62
1:L:603:ILE:HD11	1:L:635:VAL:CG1	2.29	0.62
1:N:499:GLN:HB2	1:N:520:GLN:HE22	1.64	0.62
1:B:371:ARG:HG3	1:B:390:TRP:CD1	2.34	0.62
1:B:538:LEU:HG	1:B:571:GLU:HG2	1.82	0.62
1:D:458:LEU:CB	1:D:587:ARG:HH21	2.12	0.62
1:E:587:ARG:HG3	1:E:588:VAL:H	1.63	0.62
1:E:603:ILE:HD11	1:E:635:VAL:CG1	2.29	0.62
1:F:517:THR:HA	1:F:520:GLN:CD	2.20	0.62
1:H:587:ARG:HG3	1:H:588:VAL:H	1.63	0.62
1:I:313:PRO:HA	1:I:338:TRP:HH2	1.63	0.62
1:I:913:PRO:O	1:I:914:VAL:HG12	1.99	0.62
1:J:458:LEU:CB	1:J:587:ARG:HH21	2.12	0.62
1:J:587:ARG:HG3	1:J:588:VAL:H	1.63	0.62
1:J:603:ILE:HD11	1:J:635:VAL:CG1	2.29	0.62
1:K:312:LEU:CD2	1:K:313:PRO:HD2	2.30	0.62
1:L:386:LEU:CD1	1:L:420:ILE:HD13	2.28	0.62
1:M:244:LEU:HD21	1:M:256:PHE:HD2	1.64	0.62
1:M:411:VAL:O	1:M:423:PRO:HB3	1.99	0.62
1:M:538:LEU:HG	1:M:571:GLU:HG2	1.82	0.62
1:M:548:LYS:HZ2	1:M:601:GLN:N	1.96	0.62
1:O:244:LEU:HD21	1:O:256:PHE:HD2	1.64	0.62
1:O:517:THR:HA	1:O:520:GLN:CD	2.19	0.62
1:P:312:LEU:CD2	1:P:313:PRO:HD2	2.30	0.62
1:P:913:PRO:O	1:P:914:VAL:HG12	1.99	0.62
1:A:313:PRO:CG	1:A:338:TRP:HE1	2.07	0.62
1:A:538:LEU:HG	1:A:571:GLU:HG2	1.82	0.62
1:A:916:LYS:HE2	1:B:1177:TYR:HE2	1.63	0.62
1:B:244:LEU:HD21	1:B:256:PHE:HD2	1.64	0.62
1:B:312:LEU:CD2	1:B:313:PRO:HD2	2.30	0.62
1:B:458:LEU:CB	1:B:587:ARG:HH21	2.12	0.62
1:C:475:LEU:HD23	1:C:478:ILE:HD12	1.80	0.62
1:C:538:LEU:HG	1:C:571:GLU:HG2	1.82	0.62
1:D:451:LYS:HD3	1:D:486:LEU:CD2	2.26	0.62
1:D:475:LEU:HD23	1:D:478:ILE:HD12	1.80	0.62
1:D:517:THR:HA	1:D:520:GLN:CD	2.20	0.62
1:E:458:LEU:CB	1:E:587:ARG:HH21	2.12	0.62
1:E:548:LYS:HG2	1:E:601:GLN:HA	1.81	0.62
1:F:198:LYS:NZ	1:G:222:HIS:CG	2.68	0.62
1:K:475:LEU:HD23	1:K:478:ILE:HD12	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:552:ASN:HB3	1:K:1226:TYR:HE1	1.64	0.62
1:M:371:ARG:HG3	1:M:390:TRP:CD1	2.34	0.62
1:M:458:LEU:CB	1:M:587:ARG:HH21	2.12	0.62
1:N:538:LEU:HG	1:N:571:GLU:HG2	1.82	0.62
1:N:552:ASN:HB3	1:N:1226:TYR:HE1	1.63	0.62
1:O:53:ASP:O	1:O:57:GLY:N	2.27	0.62
1:O:371:ARG:HG3	1:O:390:TRP:CD1	2.34	0.62
1:O:458:LEU:CB	1:O:587:ARG:HH21	2.12	0.62
1:P:587:ARG:HG3	1:P:588:VAL:H	1.63	0.62
1:D:378:SER:H	1:D:422:ILE:HD13	1.62	0.62
1:G:587:ARG:HG3	1:G:588:VAL:H	1.63	0.62
1:G:913:PRO:O	1:G:914:VAL:HG12	1.99	0.62
1:H:53:ASP:O	1:H:57:GLY:N	2.27	0.62
1:H:244:LEU:HD21	1:H:256:PHE:HD2	1.64	0.62
1:I:458:LEU:CB	1:I:587:ARG:HH21	2.12	0.62
1:I:548:LYS:HG2	1:I:601:GLN:HA	1.81	0.62
1:J:548:LYS:HG2	1:J:601:GLN:HA	1.81	0.62
1:K:458:LEU:CB	1:K:587:ARG:HH21	2.12	0.62
1:K:587:ARG:HG3	1:K:588:VAL:H	1.63	0.62
1:N:312:LEU:CD2	1:N:313:PRO:HD2	2.30	0.62
1:O:378:SER:H	1:O:422:ILE:HD13	1.61	0.62
1:P:518:LEU:H	1:P:518:LEU:CD1	2.13	0.62
1:A:835:SER:OG	1:A:850:GLN:NE2	2.33	0.62
1:B:915:TYR:O	1:B:916:LYS:CB	2.47	0.62
1:C:386:LEU:CD1	1:C:420:ILE:HD13	2.28	0.62
1:C:548:LYS:HG2	1:C:601:GLN:HA	1.81	0.62
1:D:244:LEU:HD21	1:D:256:PHE:HD2	1.64	0.62
1:D:587:ARG:HG3	1:D:588:VAL:H	1.63	0.62
1:F:313:PRO:HA	1:F:338:TRP:HH2	1.63	0.62
1:G:518:LEU:H	1:G:518:LEU:CD1	2.13	0.62
1:H:458:LEU:CB	1:H:587:ARG:HH21	2.12	0.62
1:H:548:LYS:HG2	1:H:601:GLN:HA	1.81	0.62
1:N:835:SER:OG	1:N:850:GLN:NE2	2.33	0.62
1:O:518:LEU:H	1:O:518:LEU:CD1	2.13	0.62
1:A:312:LEU:CD2	1:A:313:PRO:HD2	2.30	0.61
1:C:451:LYS:HD3	1:C:486:LEU:CD2	2.26	0.61
1:E:517:THR:HA	1:E:520:GLN:CD	2.20	0.61
1:F:458:LEU:CB	1:F:587:ARG:HH21	2.12	0.61
1:F:587:ARG:HG3	1:F:588:VAL:H	1.63	0.61
1:H:518:LEU:H	1:H:518:LEU:CD1	2.13	0.61
1:I:587:ARG:HG3	1:I:588:VAL:H	1.63	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:451:LYS:HD3	1:K:486:LEU:CD2	2.26	0.61
1:L:244:LEU:HD21	1:L:256:PHE:HD2	1.64	0.61
1:L:538:LEU:HG	1:L:571:GLU:HG2	1.82	0.61
1:M:913:PRO:O	1:M:914:VAL:HG12	1.99	0.61
1:M:915:TYR:O	1:M:916:LYS:CB	2.47	0.61
1:P:244:LEU:HD21	1:P:256:PHE:HD2	1.64	0.61
1:B:835:SER:OG	1:B:850:GLN:NE2	2.33	0.61
1:C:378:SER:N	1:C:422:ILE:HD11	2.10	0.61
1:D:518:LEU:H	1:D:518:LEU:CD1	2.13	0.61
1:D:838:ARG:HB2	1:D:847:VAL:HB	1.81	0.61
1:F:333:ASP:OD2	1:G:403:ASN:ND2	2.33	0.61
1:F:548:LYS:HG2	1:F:601:GLN:HA	1.81	0.61
1:H:913:PRO:O	1:H:914:VAL:HG12	1.99	0.61
1:J:312:LEU:CD2	1:J:313:PRO:HD2	2.30	0.61
1:K:222:HIS:CG	1:L:198:LYS:HZ2	2.16	0.61
1:K:244:LEU:HD21	1:K:256:PHE:HD2	1.64	0.61
1:K:517:THR:HA	1:K:520:GLN:CD	2.20	0.61
1:K:518:LEU:H	1:K:518:LEU:CD1	2.13	0.61
1:M:216:ASN:ND2	1:N:194:GLU:OE2	2.33	0.61
1:M:835:SER:OG	1:M:850:GLN:NE2	2.33	0.61
1:O:548:LYS:HG2	1:O:601:GLN:HA	1.81	0.61
1:B:913:PRO:O	1:B:914:VAL:HG12	1.99	0.61
1:C:397:ASP:O	1:C:401:VAL:N	2.28	0.61
1:C:838:ARG:HB2	1:C:847:VAL:HB	1.81	0.61
1:F:244:LEU:HD21	1:F:256:PHE:HD2	1.64	0.61
1:G:244:LEU:HD21	1:G:256:PHE:HD2	1.64	0.61
1:L:518:LEU:H	1:L:518:LEU:CD1	2.13	0.61
1:L:548:LYS:HG2	1:L:601:GLN:HA	1.81	0.61
1:N:244:LEU:HD21	1:N:256:PHE:HD2	1.64	0.61
1:P:53:ASP:O	1:P:57:GLY:N	2.27	0.61
1:A:244:LEU:HD21	1:A:256:PHE:HD2	1.64	0.61
1:A:464:ASP:O	1:A:468:TYR:HE2	1.81	0.61
1:A:548:LYS:HZ2	1:A:601:GLN:N	1.97	0.61
1:A:838:ARG:HB2	1:A:847:VAL:HB	1.81	0.61
1:D:130:PRO:HA	1:D:290:MET:CE	2.31	0.61
1:E:130:PRO:HA	1:E:290:MET:CE	2.31	0.61
1:E:312:LEU:CD2	1:E:313:PRO:HD2	2.30	0.61
1:F:838:ARG:HB2	1:F:847:VAL:HB	1.81	0.61
1:G:464:ASP:O	1:G:468:TYR:HE2	1.81	0.61
1:J:244:LEU:HD21	1:J:256:PHE:HD2	1.64	0.61
1:K:276:SER:CB	1:L:122:LYS:HG3	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:838:ARG:HB2	1:K:847:VAL:HB	1.81	0.61
1:M:130:PRO:HA	1:M:290:MET:CE	2.31	0.61
1:O:913:PRO:O	1:O:914:VAL:HG12	1.99	0.61
1:B:88:LEU:O	1:B:91:PRO:HD2	2.01	0.61
1:B:130:PRO:HA	1:B:290:MET:CE	2.31	0.61
1:C:88:LEU:O	1:C:91:PRO:HD2	2.01	0.61
1:C:130:PRO:HA	1:C:290:MET:CE	2.31	0.61
1:C:518:LEU:H	1:C:518:LEU:CD1	2.13	0.61
1:C:913:PRO:O	1:C:914:VAL:HG12	1.99	0.61
1:E:244:LEU:HD21	1:E:256:PHE:HD2	1.64	0.61
1:G:53:ASP:O	1:G:57:GLY:N	2.27	0.61
1:G:194:GLU:OE2	1:H:216:ASN:ND2	2.33	0.61
1:H:378:SER:H	1:H:422:ILE:HD13	1.62	0.61
1:I:244:LEU:HD21	1:I:256:PHE:HD2	1.64	0.61
1:I:838:ARG:HB2	1:I:847:VAL:HB	1.81	0.61
1:J:130:PRO:HA	1:J:290:MET:CE	2.31	0.61
1:K:130:PRO:HA	1:K:290:MET:CE	2.31	0.61
1:L:475:LEU:HD23	1:L:478:ILE:HD12	1.80	0.61
1:L:590:PHE:HD2	1:L:1263:MET:HA	1.66	0.61
1:M:88:LEU:O	1:M:91:PRO:HD2	2.01	0.61
1:N:548:LYS:HZ2	1:N:601:GLN:N	1.97	0.61
1:O:312:LEU:CD2	1:O:313:PRO:HD2	2.30	0.61
1:O:557:LYS:HZ2	1:O:1223:GLN:HG3	1.64	0.61
1:B:252:ALA:O	1:B:255:ALA:N	2.25	0.61
1:C:590:PHE:HD2	1:C:1263:MET:HA	1.66	0.61
1:F:518:LEU:H	1:F:518:LEU:CD1	2.13	0.61
1:H:538:LEU:HG	1:H:571:GLU:HG2	1.82	0.61
1:H:548:LYS:NZ	1:H:601:GLN:CA	2.61	0.61
1:J:517:THR:HA	1:J:520:GLN:CD	2.20	0.61
1:K:835:SER:OG	1:K:850:GLN:NE2	2.33	0.61
1:L:913:PRO:O	1:L:914:VAL:HG12	1.99	0.61
1:N:838:ARG:HB2	1:N:847:VAL:HB	1.81	0.61
1:O:835:SER:OG	1:O:850:GLN:NE2	2.33	0.61
1:P:464:ASP:O	1:P:468:TYR:HE2	1.81	0.61
1:A:590:PHE:HD2	1:A:1263:MET:HA	1.66	0.61
1:B:590:PHE:HD2	1:B:1263:MET:HA	1.66	0.61
1:D:548:LYS:HG2	1:D:601:GLN:HA	1.81	0.61
1:D:835:SER:OG	1:D:850:GLN:NE2	2.33	0.61
1:E:252:ALA:O	1:E:255:ALA:N	2.25	0.61
1:F:378:SER:H	1:F:422:ILE:HD13	1.62	0.61
1:H:88:LEU:O	1:H:91:PRO:HD2	2.01	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:312:LEU:CD2	1:H:313:PRO:HD2	2.30	0.61
1:H:464:ASP:O	1:H:468:TYR:HE2	1.81	0.61
1:H:557:LYS:HZ2	1:H:1223:GLN:HG3	1.64	0.61
1:K:548:LYS:HG2	1:K:601:GLN:HA	1.81	0.61
1:K:590:PHE:HD2	1:K:1263:MET:HA	1.66	0.61
1:L:88:LEU:O	1:L:91:PRO:HD2	2.01	0.61
1:L:130:PRO:HA	1:L:290:MET:CE	2.31	0.61
1:L:631:LEU:HD23	1:L:646:ARG:HH21	1.66	0.61
1:M:590:PHE:HD2	1:M:1263:MET:HA	1.66	0.61
1:N:590:PHE:HD2	1:N:1263:MET:HA	1.66	0.61
1:O:538:LEU:HG	1:O:571:GLU:HG2	1.82	0.61
1:C:915:TYR:O	1:C:916:LYS:CB	2.47	0.61
1:D:590:PHE:HD2	1:D:1263:MET:HA	1.66	0.61
1:F:130:PRO:HA	1:F:290:MET:CE	2.31	0.61
1:H:835:SER:OG	1:H:850:GLN:NE2	2.33	0.61
1:I:130:PRO:HA	1:I:290:MET:CE	2.31	0.61
1:I:518:LEU:H	1:I:518:LEU:CD1	2.13	0.61
1:K:538:LEU:HG	1:K:571:GLU:HG2	1.82	0.61
1:M:252:ALA:O	1:M:255:ALA:N	2.25	0.61
1:O:88:LEU:O	1:O:91:PRO:HD2	2.01	0.61
1:A:130:PRO:HA	1:A:290:MET:CE	2.31	0.61
1:B:631:LEU:HD23	1:B:646:ARG:HH21	1.66	0.61
1:C:378:SER:H	1:C:422:ILE:HD13	1.61	0.61
1:C:631:LEU:HD23	1:C:646:ARG:HH21	1.66	0.61
1:C:919:VAL:HG12	1:C:933:THR:HG22	1.83	0.61
1:D:538:LEU:HG	1:D:571:GLU:HG2	1.82	0.61
1:E:548:LYS:NZ	1:E:601:GLN:CA	2.61	0.61
1:H:631:LEU:HD23	1:H:646:ARG:HH21	1.66	0.61
1:I:357:LEU:HD21	1:I:427:LEU:HD22	1.83	0.61
1:K:313:PRO:CG	1:K:338:TRP:HE1	2.08	0.61
1:L:378:SER:H	1:L:422:ILE:HD13	1.62	0.61
1:L:451:LYS:HD3	1:L:486:LEU:CD2	2.26	0.61
1:L:838:ARG:HB2	1:L:847:VAL:HB	1.81	0.61
1:L:915:TYR:O	1:L:916:LYS:CB	2.47	0.61
1:M:631:LEU:HD23	1:M:646:ARG:HH21	1.66	0.61
1:O:464:ASP:O	1:O:468:TYR:HE2	1.81	0.61
1:O:548:LYS:NZ	1:O:601:GLN:CA	2.61	0.61
1:O:631:LEU:HD23	1:O:646:ARG:HH21	1.66	0.61
1:P:548:LYS:HG2	1:P:601:GLN:HA	1.81	0.61
1:E:835:SER:OG	1:E:850:GLN:NE2	2.33	0.61
1:F:357:LEU:HD21	1:F:427:LEU:HD22	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:548:LYS:HG2	1:G:601:GLN:HA	1.81	0.61
1:J:835:SER:OG	1:J:850:GLN:NE2	2.33	0.61
1:L:252:ALA:O	1:L:255:ALA:N	2.25	0.61
1:N:130:PRO:HA	1:N:290:MET:CE	2.31	0.61
1:N:518:LEU:H	1:N:518:LEU:CD1	2.13	0.61
1:B:919:VAL:HG12	1:B:933:THR:HG22	1.83	0.60
1:C:835:SER:OG	1:C:850:GLN:NE2	2.33	0.60
1:D:252:ALA:O	1:D:255:ALA:N	2.25	0.60
1:D:313:PRO:CG	1:D:338:TRP:HE1	2.07	0.60
1:E:590:PHE:HD2	1:E:1263:MET:HA	1.66	0.60
1:G:88:LEU:O	1:G:91:PRO:HD2	2.01	0.60
1:H:412:GLU:O	1:H:421:SER:O	2.19	0.60
1:J:590:PHE:HD2	1:J:1263:MET:HA	1.66	0.60
1:K:357:LEU:HD21	1:K:427:LEU:HD22	1.83	0.60
1:K:631:LEU:HD23	1:K:646:ARG:HH21	1.66	0.60
1:L:919:VAL:HG12	1:L:933:THR:HG22	1.83	0.60
1:O:412:GLU:O	1:O:421:SER:O	2.19	0.60
1:P:88:LEU:O	1:P:91:PRO:HD2	2.01	0.60
1:P:313:PRO:HA	1:P:338:TRP:HH2	1.63	0.60
1:A:412:GLU:O	1:A:421:SER:O	2.19	0.60
1:A:508:TRP:C	1:A:606:GLY:CA	2.69	0.60
1:A:631:LEU:HD23	1:A:646:ARG:HH21	1.66	0.60
1:B:412:GLU:O	1:B:421:SER:O	2.19	0.60
1:D:631:LEU:HD23	1:D:646:ARG:HH21	1.66	0.60
1:E:838:ARG:HB2	1:E:847:VAL:HB	1.81	0.60
1:F:252:ALA:O	1:F:255:ALA:N	2.25	0.60
1:F:590:PHE:HD2	1:F:1263:MET:HA	1.66	0.60
1:F:631:LEU:HD23	1:F:646:ARG:HH21	1.66	0.60
1:H:130:PRO:HA	1:H:290:MET:CE	2.31	0.60
1:H:637:LEU:O	1:H:638:GLU:CB	2.43	0.60
1:J:548:LYS:NZ	1:J:601:GLN:CA	2.61	0.60
1:M:412:GLU:O	1:M:421:SER:O	2.19	0.60
1:N:412:GLU:O	1:N:421:SER:O	2.19	0.60
1:N:508:TRP:C	1:N:606:GLY:CA	2.69	0.60
1:O:357:LEU:HD21	1:O:427:LEU:HD22	1.83	0.60
1:O:590:PHE:HD2	1:O:1263:MET:HA	1.66	0.60
1:B:451:LYS:HD3	1:B:486:LEU:CD2	2.26	0.60
1:E:357:LEU:HD21	1:E:427:LEU:HD22	1.83	0.60
1:G:488:ARG:HG2	1:G:491:PHE:CD2	2.36	0.60
1:G:590:PHE:HD2	1:G:1263:MET:HA	1.66	0.60
1:H:357:LEU:HD21	1:H:427:LEU:HD22	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:590:PHE:HD2	1:H:1263:MET:HA	1.66	0.60
1:H:663:GLN:HB2	1:H:680:LEU:HD12	1.83	0.60
1:H:712:LEU:HD13	1:H:738:ASN:HD22	1.67	0.60
1:K:252:ALA:O	1:K:255:ALA:N	2.25	0.60
1:L:357:LEU:HD21	1:L:427:LEU:HD22	1.83	0.60
1:L:835:SER:OG	1:L:850:GLN:NE2	2.33	0.60
1:O:663:GLN:HB2	1:O:680:LEU:HD12	1.83	0.60
1:O:712:LEU:HD13	1:O:738:ASN:HD22	1.67	0.60
1:A:518:LEU:H	1:A:518:LEU:CD1	2.13	0.60
1:A:663:GLN:HB2	1:A:680:LEU:HD12	1.83	0.60
1:C:412:GLU:O	1:C:421:SER:O	2.19	0.60
1:D:357:LEU:HD21	1:D:427:LEU:HD22	1.83	0.60
1:D:412:GLU:O	1:D:421:SER:O	2.19	0.60
1:D:915:TYR:O	1:D:916:LYS:CB	2.47	0.60
1:G:313:PRO:HA	1:G:338:TRP:HH2	1.63	0.60
1:G:412:GLU:O	1:G:421:SER:O	2.19	0.60
1:G:538:LEU:HG	1:G:571:GLU:HG2	1.82	0.60
1:G:838:ARG:HB2	1:G:847:VAL:HB	1.81	0.60
1:H:488:ARG:HG2	1:H:491:PHE:CD2	2.37	0.60
1:J:252:ALA:O	1:J:255:ALA:N	2.25	0.60
1:J:357:LEU:HD21	1:J:427:LEU:HD22	1.83	0.60
1:J:838:ARG:HB2	1:J:847:VAL:HB	1.81	0.60
1:K:53:ASP:O	1:K:57:GLY:N	2.27	0.60
1:L:412:GLU:O	1:L:421:SER:O	2.20	0.60
1:M:919:VAL:HG12	1:M:933:THR:HG22	1.84	0.60
1:O:130:PRO:HA	1:O:290:MET:CE	2.31	0.60
1:O:637:LEU:O	1:O:638:GLU:CB	2.43	0.60
1:P:412:GLU:O	1:P:421:SER:O	2.19	0.60
1:P:488:ARG:HG2	1:P:491:PHE:CD2	2.37	0.60
1:P:590:PHE:HD2	1:P:1263:MET:HA	1.66	0.60
1:P:835:SER:OG	1:P:850:GLN:NE2	2.33	0.60
1:P:838:ARG:HB2	1:P:847:VAL:HB	1.81	0.60
1:B:518:LEU:H	1:B:518:LEU:CD1	2.13	0.60
1:C:97:ARG:NH2	1:L:97:ARG:NH2	2.49	0.60
1:C:357:LEU:HD21	1:C:427:LEU:HD22	1.83	0.60
1:D:548:LYS:NZ	1:D:601:GLN:CA	2.61	0.60
1:D:916:LYS:CE	1:E:1177:TYR:CE2	2.85	0.60
1:D:919:VAL:HG12	1:D:933:THR:HG22	1.83	0.60
1:E:915:TYR:O	1:E:916:LYS:CB	2.47	0.60
1:F:915:TYR:O	1:F:916:LYS:CB	2.47	0.60
1:G:835:SER:OG	1:G:850:GLN:NE2	2.33	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:53:ASP:O	1:J:57:GLY:N	2.27	0.60
1:K:412:GLU:O	1:K:421:SER:O	2.19	0.60
1:K:919:VAL:HG12	1:K:933:THR:HG22	1.83	0.60
1:M:451:LYS:HD3	1:M:486:LEU:CD2	2.26	0.60
1:N:631:LEU:HD23	1:N:646:ARG:HH21	1.66	0.60
1:O:488:ARG:HG2	1:O:491:PHE:CD2	2.37	0.60
1:P:130:PRO:HA	1:P:290:MET:CE	2.31	0.60
1:P:663:GLN:HB2	1:P:680:LEU:HD12	1.83	0.60
1:A:488:ARG:HG2	1:A:491:PHE:CD2	2.36	0.60
1:C:53:ASP:O	1:C:57:GLY:N	2.27	0.60
1:C:488:ARG:HG2	1:C:491:PHE:CD2	2.36	0.60
1:D:53:ASP:O	1:D:57:GLY:N	2.27	0.60
1:F:397:ASP:O	1:F:401:VAL:N	2.28	0.60
1:F:835:SER:OG	1:F:850:GLN:NE2	2.33	0.60
1:G:130:PRO:HA	1:G:290:MET:CE	2.31	0.60
1:G:186:CYS:O	1:G:187:ASN:ND2	2.35	0.60
1:G:712:LEU:HD13	1:G:738:ASN:HD22	1.67	0.60
1:I:538:LEU:HG	1:I:571:GLU:HG2	1.82	0.60
1:I:590:PHE:HD2	1:I:1263:MET:HA	1.66	0.60
1:I:631:LEU:HD23	1:I:646:ARG:HH21	1.66	0.60
1:I:835:SER:OG	1:I:850:GLN:NE2	2.33	0.60
1:J:631:LEU:HD23	1:J:646:ARG:HH21	1.66	0.60
1:K:915:TYR:O	1:K:916:LYS:CB	2.47	0.60
1:L:397:ASP:O	1:L:401:VAL:N	2.28	0.60
1:M:508:TRP:C	1:M:606:GLY:CA	2.69	0.60
1:M:518:LEU:H	1:M:518:LEU:CD1	2.13	0.60
1:N:663:GLN:HB2	1:N:680:LEU:HD12	1.83	0.60
1:P:538:LEU:HG	1:P:571:GLU:HG2	1.82	0.60
1:B:508:TRP:C	1:B:606:GLY:CA	2.69	0.60
1:C:121:ALA:HB1	1:D:276:SER:CB	2.22	0.60
1:C:252:ALA:O	1:C:255:ALA:N	2.25	0.60
1:C:712:LEU:HD13	1:C:738:ASN:HD22	1.67	0.60
1:E:518:LEU:H	1:E:518:LEU:CD1	2.13	0.60
1:E:538:LEU:HG	1:E:571:GLU:HG2	1.82	0.60
1:E:631:LEU:HD23	1:E:646:ARG:HH21	1.66	0.60
1:F:88:LEU:O	1:F:91:PRO:HD2	2.01	0.60
1:G:357:LEU:HD21	1:G:427:LEU:HD22	1.83	0.60
1:G:663:GLN:HB2	1:G:680:LEU:HD12	1.83	0.60
1:I:252:ALA:O	1:I:255:ALA:N	2.25	0.60
1:J:317:LEU:C	1:J:318:THR:HG1	1.96	0.60
1:J:538:LEU:HG	1:J:571:GLU:HG2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:488:ARG:HG2	1:N:491:PHE:CD2	2.37	0.60
1:P:186:CYS:O	1:P:187:ASN:ND2	2.35	0.60
1:B:357:LEU:HD21	1:B:427:LEU:HD22	1.83	0.60
1:B:712:LEU:HD13	1:B:738:ASN:HD22	1.67	0.60
1:C:548:LYS:NZ	1:C:601:GLN:CA	2.61	0.60
1:D:712:LEU:HD13	1:D:738:ASN:HD22	1.67	0.60
1:E:88:LEU:O	1:E:91:PRO:HD2	2.01	0.60
1:E:188:SER:N	1:E:251:APK:O2P	2.31	0.60
1:E:198:LYS:NZ	1:F:222:HIS:CG	2.70	0.60
1:E:412:GLU:O	1:E:421:SER:O	2.19	0.60
1:I:88:LEU:O	1:I:91:PRO:HD2	2.01	0.60
1:J:412:GLU:O	1:J:421:SER:O	2.19	0.60
1:J:518:LEU:H	1:J:518:LEU:CD1	2.13	0.60
1:J:915:TYR:O	1:J:916:LYS:CB	2.47	0.60
1:M:357:LEU:HD21	1:M:427:LEU:HD22	1.83	0.60
1:M:663:GLN:HB2	1:M:680:LEU:HD12	1.83	0.60
1:N:186:CYS:O	1:N:187:ASN:ND2	2.35	0.60
1:N:518:LEU:HA	1:N:521:LEU:HB3	1.84	0.60
1:N:712:LEU:HD13	1:N:738:ASN:HD22	1.67	0.60
1:P:357:LEU:HD21	1:P:427:LEU:HD22	1.83	0.60
1:P:712:LEU:HD13	1:P:738:ASN:HD22	1.67	0.60
1:A:88:LEU:O	1:A:91:PRO:HD2	2.01	0.60
1:A:186:CYS:O	1:A:187:ASN:ND2	2.35	0.60
1:A:397:ASP:O	1:A:401:VAL:N	2.28	0.60
1:A:518:LEU:HA	1:A:521:LEU:HB3	1.84	0.60
1:B:663:GLN:HB2	1:B:680:LEU:HD12	1.83	0.60
1:D:88:LEU:O	1:D:91:PRO:HD2	2.01	0.60
1:E:508:TRP:C	1:E:606:GLY:CA	2.69	0.60
1:F:538:LEU:HG	1:F:571:GLU:HG2	1.82	0.60
1:I:186:CYS:O	1:I:187:ASN:ND2	2.35	0.60
1:I:412:GLU:O	1:I:421:SER:O	2.19	0.60
1:I:915:TYR:O	1:I:916:LYS:CB	2.47	0.60
1:N:88:LEU:O	1:N:91:PRO:HD2	2.01	0.60
1:O:313:PRO:HA	1:O:338:TRP:HH2	1.63	0.60
1:P:518:LEU:HA	1:P:521:LEU:HB3	1.84	0.60
1:A:216:ASN:ND2	1:H:194:GLU:OE2	2.35	0.60
1:A:378:SER:HA	1:A:422:ILE:HD12	1.84	0.60
1:A:712:LEU:HD13	1:A:738:ASN:HD22	1.67	0.60
1:A:919:VAL:HG12	1:A:933:THR:HG22	1.83	0.60
1:E:317:LEU:C	1:E:318:THR:HG1	1.97	0.60
1:F:186:CYS:O	1:F:187:ASN:ND2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:412:GLU:O	1:F:421:SER:O	2.19	0.60
1:I:313:PRO:CG	1:I:338:TRP:HE1	2.07	0.60
1:J:769:ARG:HH12	1:J:771:PHE:HB2	1.67	0.60
1:K:519:GLN:HG2	1:K:523:PHE:CE2	2.37	0.60
1:K:548:LYS:NZ	1:K:601:GLN:CA	2.61	0.60
1:K:712:LEU:HD13	1:K:738:ASN:HD22	1.67	0.60
1:L:712:LEU:HD13	1:L:738:ASN:HD22	1.67	0.60
1:M:712:LEU:HD13	1:M:738:ASN:HD22	1.67	0.60
1:B:519:GLN:HG2	1:B:523:PHE:CE2	2.37	0.59
1:D:663:GLN:HB2	1:D:680:LEU:HD12	1.83	0.59
1:D:769:ARG:HH12	1:D:771:PHE:HB2	1.67	0.59
1:E:663:GLN:HB2	1:E:680:LEU:HD12	1.83	0.59
1:E:769:ARG:HH12	1:E:771:PHE:HB2	1.67	0.59
1:F:316:VAL:HG23	1:F:316:VAL:O	2.02	0.59
1:G:518:LEU:HA	1:G:521:LEU:HB3	1.84	0.59
1:G:557:LYS:HZ2	1:G:1223:GLN:HG3	1.67	0.59
1:I:511:SER:HA	1:I:514:ILE:N	2.17	0.59
1:I:769:ARG:HH12	1:I:771:PHE:HB2	1.67	0.59
1:J:188:SER:N	1:J:251:APK:O2P	2.31	0.59
1:J:508:TRP:C	1:J:606:GLY:CA	2.69	0.59
1:K:88:LEU:O	1:K:91:PRO:HD2	2.01	0.59
1:K:663:GLN:HB2	1:K:680:LEU:HD12	1.83	0.59
1:L:53:ASP:O	1:L:57:GLY:N	2.27	0.59
1:M:519:GLN:HG2	1:M:523:PHE:CE2	2.37	0.59
1:N:378:SER:HA	1:N:422:ILE:HD12	1.84	0.59
1:P:557:LYS:HZ2	1:P:1223:GLN:HG3	1.67	0.59
1:B:488:ARG:HG2	1:B:491:PHE:CD2	2.37	0.59
1:D:519:GLN:HG2	1:D:523:PHE:CE2	2.37	0.59
1:F:511:SER:HA	1:F:514:ILE:N	2.17	0.59
1:H:313:PRO:HA	1:H:338:TRP:HH2	1.63	0.59
1:I:316:VAL:HG23	1:I:316:VAL:O	2.02	0.59
1:I:488:ARG:HG2	1:I:491:PHE:CD2	2.36	0.59
1:J:88:LEU:O	1:J:91:PRO:HD2	2.01	0.59
1:J:663:GLN:HB2	1:J:680:LEU:HD12	1.83	0.59
1:J:919:VAL:HG12	1:J:933:THR:HG22	1.83	0.59
1:K:365:TYR:O	1:K:368:MET:N	2.21	0.59
1:K:769:ARG:HH12	1:K:771:PHE:HB2	1.67	0.59
1:L:488:ARG:HG2	1:L:491:PHE:CD2	2.37	0.59
1:L:508:TRP:C	1:L:606:GLY:CA	2.69	0.59
1:M:511:SER:HA	1:M:514:ILE:N	2.17	0.59
1:N:365:TYR:O	1:N:368:MET:N	2.21	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:919:VAL:HG12	1:N:933:THR:HG22	1.83	0.59
1:A:357:LEU:HD21	1:A:427:LEU:HD22	1.83	0.59
1:A:916:LYS:CE	1:B:1177:TYR:HE2	2.15	0.59
1:B:511:SER:HA	1:B:514:ILE:N	2.17	0.59
1:E:519:GLN:HG2	1:E:523:PHE:CE2	2.37	0.59
1:E:919:VAL:HG12	1:E:933:THR:HG22	1.83	0.59
1:F:313:PRO:CG	1:F:338:TRP:HE1	2.07	0.59
1:H:511:SER:HA	1:H:514:ILE:N	2.17	0.59
1:I:142:ARG:NH1	1:J:14:ASP:OD2	2.35	0.59
1:I:365:TYR:O	1:I:368:MET:N	2.21	0.59
1:I:517:THR:O	1:I:519:GLN:N	2.35	0.59
1:J:488:ARG:HG2	1:J:491:PHE:CD2	2.37	0.59
1:J:511:SER:HA	1:J:514:ILE:N	2.18	0.59
1:J:517:THR:O	1:J:519:GLN:N	2.35	0.59
1:K:508:TRP:C	1:K:606:GLY:CA	2.69	0.59
1:M:488:ARG:HG2	1:M:491:PHE:CD2	2.37	0.59
1:M:518:LEU:HA	1:M:521:LEU:HB3	1.84	0.59
1:N:519:GLN:HG2	1:N:523:PHE:CE2	2.37	0.59
1:O:511:SER:HA	1:O:514:ILE:N	2.17	0.59
1:A:519:GLN:HG2	1:A:523:PHE:CE2	2.37	0.59
1:B:518:LEU:HA	1:B:521:LEU:HB3	1.84	0.59
1:C:508:TRP:C	1:C:606:GLY:CA	2.70	0.59
1:C:518:LEU:HA	1:C:521:LEU:HB3	1.84	0.59
1:D:488:ARG:HG2	1:D:491:PHE:CD2	2.37	0.59
1:D:508:TRP:C	1:D:606:GLY:CA	2.69	0.59
1:E:186:CYS:O	1:E:187:ASN:ND2	2.35	0.59
1:E:488:ARG:HG2	1:E:491:PHE:CD2	2.37	0.59
1:E:511:SER:HA	1:E:514:ILE:N	2.18	0.59
1:E:517:THR:O	1:E:519:GLN:N	2.35	0.59
1:E:712:LEU:HD13	1:E:738:ASN:HD22	1.67	0.59
1:F:769:ARG:HH12	1:F:771:PHE:HB2	1.67	0.59
1:J:519:GLN:HG2	1:J:523:PHE:CE2	2.37	0.59
1:K:548:LYS:HZ2	1:K:601:GLN:H	1.51	0.59
1:L:663:GLN:HB2	1:L:680:LEU:HD12	1.83	0.59
1:N:142:ARG:NH1	1:O:14:ASP:OD2	2.33	0.59
1:N:397:ASP:O	1:N:401:VAL:N	2.28	0.59
1:C:769:ARG:HH12	1:C:771:PHE:HB2	1.67	0.59
1:D:365:TYR:O	1:D:368:MET:N	2.21	0.59
1:D:511:SER:HA	1:D:514:ILE:N	2.18	0.59
1:F:130:PRO:HA	1:F:290:MET:HE1	1.84	0.59
1:F:663:GLN:HB2	1:F:680:LEU:HD12	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:397:ASP:O	1:I:401:VAL:N	2.28	0.59
1:J:216:ASN:ND2	1:K:194:GLU:OE2	2.36	0.59
1:J:712:LEU:HD13	1:J:738:ASN:HD22	1.67	0.59
1:K:276:SER:HB2	1:L:122:LYS:HG3	1.84	0.59
1:K:488:ARG:HG2	1:K:491:PHE:CD2	2.37	0.59
1:K:511:SER:HA	1:K:514:ILE:N	2.18	0.59
1:L:186:CYS:O	1:L:187:ASN:ND2	2.35	0.59
1:M:142:ARG:NH1	1:N:14:ASP:OD2	2.34	0.59
1:N:357:LEU:HD21	1:N:427:LEU:HD22	1.83	0.59
1:A:365:TYR:O	1:A:368:MET:N	2.21	0.59
1:B:188:SER:N	1:B:251:APK:O2P	2.31	0.59
1:B:316:VAL:O	1:B:316:VAL:HG23	2.02	0.59
1:C:312:LEU:CD2	1:C:313:PRO:HD2	2.30	0.59
1:C:517:THR:O	1:C:519:GLN:N	2.35	0.59
1:E:316:VAL:O	1:E:316:VAL:HG23	2.02	0.59
1:H:378:SER:HA	1:H:422:ILE:HD12	1.84	0.59
1:I:663:GLN:HB2	1:I:680:LEU:HD12	1.83	0.59
1:J:186:CYS:O	1:J:187:ASN:ND2	2.35	0.59
1:J:316:VAL:O	1:J:316:VAL:HG23	2.02	0.59
1:K:518:LEU:HA	1:K:521:LEU:HB3	1.84	0.59
1:L:518:LEU:HA	1:L:521:LEU:HB3	1.84	0.59
1:M:186:CYS:O	1:M:187:ASN:ND2	2.35	0.59
1:M:188:SER:N	1:M:251:APK:O2P	2.31	0.59
1:M:316:VAL:O	1:M:316:VAL:HG23	2.02	0.59
1:N:24:VAL:HA	1:N:58:THR:HG21	1.85	0.59
1:B:24:VAL:HA	1:B:58:THR:HG21	1.85	0.59
1:B:186:CYS:O	1:B:187:ASN:ND2	2.35	0.59
1:B:499:GLN:HB2	1:B:520:GLN:NE2	2.18	0.59
1:C:186:CYS:O	1:C:187:ASN:ND2	2.35	0.59
1:C:365:TYR:O	1:C:368:MET:N	2.21	0.59
1:C:663:GLN:HB2	1:C:680:LEU:HD12	1.83	0.59
1:D:517:THR:O	1:D:519:GLN:N	2.35	0.59
1:E:442:SER:O	1:E:446:HIS:CG	2.55	0.59
1:F:14:ASP:CG	1:G:142:ARG:HH22	2.06	0.59
1:F:314:ARG:O	1:F:315:GLU:HB2	2.03	0.59
1:F:517:THR:O	1:F:519:GLN:N	2.35	0.59
1:F:712:LEU:HD13	1:F:738:ASN:HD22	1.67	0.59
1:G:316:VAL:HG23	1:G:316:VAL:O	2.02	0.59
1:G:915:TYR:O	1:G:916:LYS:CB	2.47	0.59
1:L:769:ARG:HH12	1:L:771:PHE:HB2	1.67	0.59
1:M:378:SER:HA	1:M:422:ILE:HD12	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:GLN:HB2	1:M:520:GLN:NE2	2.18	0.59
1:O:499:GLN:HB2	1:O:520:GLN:NE2	2.18	0.59
1:A:24:VAL:HA	1:A:58:THR:HG21	1.85	0.59
1:B:378:SER:HA	1:B:422:ILE:HD12	1.84	0.59
1:C:511:SER:HA	1:C:514:ILE:N	2.17	0.59
1:D:518:LEU:HA	1:D:521:LEU:HB3	1.84	0.59
1:E:499:GLN:HB2	1:E:520:GLN:NE2	2.18	0.59
1:E:518:LEU:HA	1:E:521:LEU:HB3	1.84	0.59
1:F:444:VAL:HG22	1:F:478:ILE:HG12	1.85	0.59
1:F:488:ARG:HG2	1:F:491:PHE:CD2	2.37	0.59
1:F:504:ASP:OD2	1:F:509:ASN:O	2.21	0.59
1:F:919:VAL:HG12	1:F:933:THR:HG22	1.83	0.59
1:H:442:SER:O	1:H:446:HIS:CG	2.55	0.59
1:H:517:THR:O	1:H:519:GLN:N	2.35	0.59
1:I:314:ARG:O	1:I:315:GLU:HB2	2.03	0.59
1:I:444:VAL:HG22	1:I:478:ILE:HG12	1.85	0.59
1:I:504:ASP:OD2	1:I:509:ASN:O	2.21	0.59
1:J:518:LEU:HA	1:J:521:LEU:HB3	1.84	0.59
1:K:517:THR:O	1:K:519:GLN:N	2.35	0.59
1:L:442:SER:O	1:L:446:HIS:CG	2.55	0.59
1:L:511:SER:HA	1:L:514:ILE:N	2.17	0.59
1:M:24:VAL:HA	1:M:58:THR:HG21	1.85	0.59
1:M:312:LEU:CD2	1:M:313:PRO:HD2	2.30	0.59
1:O:378:SER:HA	1:O:422:ILE:HD12	1.84	0.59
1:O:517:THR:O	1:O:519:GLN:N	2.35	0.59
1:P:316:VAL:HG23	1:P:316:VAL:O	2.02	0.59
1:P:915:TYR:O	1:P:916:LYS:CB	2.47	0.59
1:A:188:SER:N	1:A:251:APK:O2P	2.31	0.59
1:A:637:LEU:O	1:A:638:GLU:CB	2.43	0.59
1:C:24:VAL:HA	1:C:58:THR:HG21	1.85	0.59
1:F:371:ARG:HB3	1:F:389:ILE:HG21	1.85	0.59
1:G:252:ALA:O	1:G:255:ALA:N	2.25	0.59
1:G:371:ARG:HB3	1:G:389:ILE:HG21	1.85	0.59
1:G:444:VAL:HG22	1:G:478:ILE:HG12	1.85	0.59
1:G:631:LEU:HD23	1:G:646:ARG:HH21	1.66	0.59
1:H:313:PRO:CG	1:H:338:TRP:HE1	2.07	0.59
1:H:499:GLN:HB2	1:H:520:GLN:NE2	2.18	0.59
1:H:504:ASP:OD2	1:H:509:ASN:O	2.21	0.59
1:H:919:VAL:HG12	1:H:933:THR:HG22	1.83	0.59
1:I:371:ARG:HB3	1:I:389:ILE:HG21	1.85	0.59
1:I:499:GLN:HB2	1:I:520:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:442:SER:O	1:J:446:HIS:CG	2.55	0.59
1:J:499:GLN:HB2	1:J:520:GLN:NE2	2.18	0.59
1:L:517:THR:O	1:L:519:GLN:N	2.35	0.59
1:L:548:LYS:HZ2	1:L:601:GLN:H	1.51	0.59
1:M:11:GLN:NE2	1:M:70:GLU:OE1	2.36	0.59
1:O:24:VAL:HA	1:O:58:THR:HG21	1.85	0.59
1:O:313:PRO:CG	1:O:338:TRP:HE1	2.07	0.59
1:O:442:SER:O	1:O:446:HIS:CG	2.55	0.59
1:O:919:VAL:HG12	1:O:933:THR:HG22	1.83	0.59
1:O:1177:TYR:HE2	1:P:916:LYS:CE	2.16	0.59
1:P:371:ARG:HB3	1:P:389:ILE:HG21	1.85	0.59
1:P:444:VAL:HG22	1:P:478:ILE:HG12	1.85	0.59
1:P:504:ASP:OD2	1:P:509:ASN:O	2.21	0.59
1:A:451:LYS:HD3	1:A:486:LEU:CD2	2.26	0.59
1:B:11:GLN:NE2	1:B:70:GLU:OE1	2.36	0.59
1:B:53:ASP:O	1:B:57:GLY:N	2.27	0.59
1:B:130:PRO:HA	1:B:290:MET:HE1	1.85	0.59
1:C:442:SER:O	1:C:446:HIS:CG	2.55	0.59
1:C:548:LYS:HZ2	1:C:601:GLN:H	1.51	0.59
1:D:186:CYS:O	1:D:187:ASN:ND2	2.35	0.59
1:D:248:GLN:CD	1:D:268:PHE:CE2	2.74	0.59
1:D:819:PHE:HD1	1:D:830:LEU:HD13	1.68	0.59
1:E:444:VAL:HG22	1:E:478:ILE:HG12	1.85	0.59
1:E:819:PHE:HD1	1:E:830:LEU:HD13	1.68	0.59
1:F:11:GLN:NE2	1:F:70:GLU:OE1	2.36	0.59
1:G:499:GLN:HB2	1:G:520:GLN:NE2	2.18	0.59
1:G:504:ASP:OD2	1:G:509:ASN:O	2.21	0.59
1:H:24:VAL:HA	1:H:58:THR:HG21	1.85	0.59
1:H:186:CYS:O	1:H:187:ASN:ND2	2.35	0.59
1:I:919:VAL:HG12	1:I:933:THR:HG22	1.83	0.59
1:J:444:VAL:HG22	1:J:478:ILE:HG12	1.85	0.59
1:J:633:THR:HG21	1:J:643:TYR:CA	2.33	0.59
1:J:819:PHE:HD1	1:J:830:LEU:HD13	1.68	0.59
1:K:186:CYS:O	1:K:187:ASN:ND2	2.35	0.59
1:K:819:PHE:HD1	1:K:830:LEU:HD13	1.68	0.59
1:K:1055:GLU:HG3	1:K:1056:GLU:H	1.68	0.59
1:M:53:ASP:O	1:M:57:GLY:N	2.27	0.59
1:M:130:PRO:HA	1:M:290:MET:HE1	1.85	0.59
1:O:504:ASP:OD2	1:O:509:ASN:O	2.21	0.59
1:P:11:GLN:NE2	1:P:70:GLU:OE1	2.36	0.59
1:P:499:GLN:HB2	1:P:520:GLN:NE2	2.18	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:769:ARG:HH12	1:P:771:PHE:HB2	1.67	0.59
1:A:316:VAL:HG23	1:A:316:VAL:O	2.02	0.58
1:A:371:ARG:HB3	1:A:389:ILE:HG21	1.85	0.58
1:A:499:GLN:HB2	1:A:520:GLN:NE2	2.18	0.58
1:A:511:SER:HA	1:A:514:ILE:N	2.17	0.58
1:D:24:VAL:HA	1:D:58:THR:HG21	1.85	0.58
1:D:444:VAL:HG22	1:D:478:ILE:HG12	1.85	0.58
1:E:314:ARG:O	1:E:315:GLU:HB2	2.03	0.58
1:F:365:TYR:O	1:F:368:MET:N	2.21	0.58
1:F:499:GLN:HB2	1:F:520:GLN:NE2	2.18	0.58
1:F:519:GLN:HG2	1:F:523:PHE:CE2	2.37	0.58
1:G:11:GLN:NE2	1:G:70:GLU:OE1	2.36	0.58
1:G:769:ARG:HH12	1:G:771:PHE:HB2	1.67	0.58
1:H:518:LEU:HA	1:H:521:LEU:HB3	1.84	0.58
1:I:712:LEU:HD13	1:I:738:ASN:HD22	1.67	0.58
1:J:314:ARG:O	1:J:315:GLU:HB2	2.03	0.58
1:J:504:ASP:OD2	1:J:509:ASN:O	2.21	0.58
1:K:248:GLN:CD	1:K:268:PHE:CE2	2.74	0.58
1:K:444:VAL:HG22	1:K:478:ILE:HG12	1.85	0.58
1:K:499:GLN:HB2	1:K:520:GLN:NE2	2.18	0.58
1:L:548:LYS:NZ	1:L:601:GLN:CA	2.61	0.58
1:M:769:ARG:HH12	1:M:771:PHE:HB2	1.67	0.58
1:M:819:PHE:HD1	1:M:830:LEU:HD13	1.68	0.58
1:N:11:GLN:NE2	1:N:70:GLU:OE1	2.36	0.58
1:N:188:SER:N	1:N:251:APK:O2P	2.31	0.58
1:N:637:LEU:O	1:N:638:GLU:CB	2.43	0.58
1:O:11:GLN:NE2	1:O:70:GLU:OE1	2.36	0.58
1:O:186:CYS:O	1:O:187:ASN:ND2	2.35	0.58
1:O:519:GLN:HG2	1:O:523:PHE:CE2	2.37	0.58
1:P:314:ARG:O	1:P:315:GLU:HB2	2.03	0.58
1:P:919:VAL:HG12	1:P:933:THR:HG22	1.83	0.58
1:A:11:GLN:NE2	1:A:70:GLU:OE1	2.36	0.58
1:A:819:PHE:HD1	1:A:830:LEU:HD13	1.68	0.58
1:B:365:TYR:O	1:B:368:MET:N	2.21	0.58
1:B:517:THR:O	1:B:519:GLN:N	2.35	0.58
1:B:819:PHE:HD1	1:B:830:LEU:HD13	1.68	0.58
1:C:819:PHE:HD1	1:C:830:LEU:HD13	1.68	0.58
1:D:499:GLN:HB2	1:D:520:GLN:NE2	2.18	0.58
1:D:1055:GLU:HG3	1:D:1056:GLU:H	1.68	0.58
1:E:130:PRO:HA	1:E:290:MET:HE1	1.85	0.58
1:E:504:ASP:OD2	1:E:509:ASN:O	2.21	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:314:ARG:O	1:G:315:GLU:HB2	2.03	0.58
1:H:11:GLN:NE2	1:H:70:GLU:OE1	2.36	0.58
1:I:11:GLN:NE2	1:I:70:GLU:OE1	2.36	0.58
1:L:24:VAL:HA	1:L:58:THR:HG21	1.85	0.58
1:L:519:GLN:HG2	1:L:523:PHE:CE2	2.37	0.58
1:L:819:PHE:HD1	1:L:830:LEU:HD13	1.68	0.58
1:M:365:TYR:O	1:M:368:MET:N	2.21	0.58
1:M:517:THR:O	1:M:519:GLN:N	2.35	0.58
1:N:316:VAL:HG23	1:N:316:VAL:O	2.02	0.58
1:N:371:ARG:HB3	1:N:389:ILE:HG21	1.85	0.58
1:N:819:PHE:HD1	1:N:830:LEU:HD13	1.68	0.58
1:P:252:ALA:O	1:P:255:ALA:N	2.25	0.58
1:P:631:LEU:HD23	1:P:646:ARG:HH21	1.66	0.58
1:A:130:PRO:HA	1:A:290:MET:HE1	1.85	0.58
1:B:769:ARG:HH12	1:B:771:PHE:HB2	1.67	0.58
1:C:519:GLN:HG2	1:C:523:PHE:CE2	2.37	0.58
1:E:371:ARG:HB3	1:E:389:ILE:HG21	1.85	0.58
1:E:633:THR:HG21	1:E:643:TYR:CA	2.33	0.58
1:F:458:LEU:HA	1:F:587:ARG:NH2	2.19	0.58
1:F:557:LYS:HZ2	1:F:1223:GLN:HG3	1.68	0.58
1:G:919:VAL:HG12	1:G:933:THR:HG22	1.83	0.58
1:H:519:GLN:HG2	1:H:523:PHE:CE2	2.37	0.58
1:J:130:PRO:HA	1:J:290:MET:HE1	1.85	0.58
1:J:371:ARG:HB3	1:J:389:ILE:HG21	1.85	0.58
1:K:24:VAL:HA	1:K:58:THR:HG21	1.85	0.58
1:L:499:GLN:HB2	1:L:520:GLN:NE2	2.18	0.58
1:N:499:GLN:HB2	1:N:520:GLN:NE2	2.18	0.58
1:N:511:SER:HA	1:N:514:ILE:N	2.17	0.58
1:O:371:ARG:HB3	1:O:389:ILE:HG21	1.85	0.58
1:P:819:PHE:HD1	1:P:830:LEU:HD13	1.68	0.58
1:P:1055:GLU:HG3	1:P:1056:GLU:H	1.68	0.58
1:A:517:THR:O	1:A:519:GLN:N	2.35	0.58
1:C:194:GLU:O	1:C:197:GLN:N	2.37	0.58
1:C:313:PRO:HA	1:C:338:TRP:HH2	1.63	0.58
1:C:316:VAL:HG23	1:C:316:VAL:O	2.02	0.58
1:C:499:GLN:HB2	1:C:520:GLN:NE2	2.18	0.58
1:C:637:LEU:O	1:C:638:GLU:CB	2.43	0.58
1:E:198:LYS:HZ1	1:F:222:HIS:CG	2.22	0.58
1:E:336:ALA:HA	1:E:340:ASN:HB3	1.85	0.58
1:F:111:ASP:HB3	1:G:144:ALA:HB3	1.85	0.58
1:G:14:ASP:OD2	1:H:142:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:194:GLU:O	1:G:197:GLN:N	2.37	0.58
1:G:458:LEU:HA	1:G:587:ARG:NH2	2.19	0.58
1:G:511:SER:HA	1:G:514:ILE:N	2.18	0.58
1:G:819:PHE:HD1	1:G:830:LEU:HD13	1.68	0.58
1:G:1055:GLU:HG3	1:G:1056:GLU:H	1.68	0.58
1:H:371:ARG:HB3	1:H:389:ILE:HG21	1.85	0.58
1:H:444:VAL:HG22	1:H:478:ILE:HG12	1.85	0.58
1:I:194:GLU:O	1:I:197:GLN:N	2.37	0.58
1:I:519:GLN:HG2	1:I:523:PHE:CE2	2.37	0.58
1:J:336:ALA:HA	1:J:340:ASN:HB3	1.85	0.58
1:L:1055:GLU:HG3	1:L:1056:GLU:H	1.68	0.58
1:N:130:PRO:HA	1:N:290:MET:HE1	1.85	0.58
1:N:194:GLU:O	1:N:197:GLN:N	2.37	0.58
1:N:451:LYS:HD3	1:N:486:LEU:CD2	2.26	0.58
1:N:517:THR:O	1:N:519:GLN:N	2.35	0.58
1:O:444:VAL:HG22	1:O:478:ILE:HG12	1.85	0.58
1:O:518:LEU:HA	1:O:521:LEU:HB3	1.84	0.58
1:O:1055:GLU:HG3	1:O:1056:GLU:H	1.68	0.58
1:P:458:LEU:HA	1:P:587:ARG:NH2	2.19	0.58
1:P:511:SER:HA	1:P:514:ILE:N	2.17	0.58
1:A:194:GLU:O	1:A:197:GLN:N	2.37	0.58
1:A:458:LEU:HA	1:A:587:ARG:NH2	2.19	0.58
1:B:121:ALA:HB1	1:C:276:SER:HB2	1.79	0.58
1:D:319:THR:O	1:D:320:ASN:ND2	2.37	0.58
1:E:882:LEU:HG	1:E:883:ILE:HG13	1.86	0.58
1:F:194:GLU:O	1:F:197:GLN:N	2.37	0.58
1:F:1055:GLU:HG3	1:F:1056:GLU:H	1.68	0.58
1:H:314:ARG:O	1:H:315:GLU:HB2	2.03	0.58
1:H:1055:GLU:HG3	1:H:1056:GLU:H	1.68	0.58
1:I:458:LEU:HA	1:I:587:ARG:NH2	2.19	0.58
1:K:314:ARG:O	1:K:315:GLU:HB2	2.03	0.58
1:K:319:THR:O	1:K:320:ASN:ND2	2.37	0.58
1:K:371:ARG:HB3	1:K:389:ILE:HG21	1.85	0.58
1:N:504:ASP:OD2	1:N:509:ASN:O	2.21	0.58
1:P:194:GLU:O	1:P:197:GLN:N	2.37	0.58
1:P:519:GLN:HG2	1:P:523:PHE:CE2	2.37	0.58
1:A:1055:GLU:HG3	1:A:1056:GLU:H	1.68	0.58
1:B:319:THR:O	1:B:320:ASN:ND2	2.37	0.58
1:B:637:LEU:O	1:B:638:GLU:CB	2.43	0.58
1:F:518:LEU:HA	1:F:521:LEU:HB3	1.84	0.58
1:G:24:VAL:HA	1:G:58:THR:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:319:THR:O	1:G:320:ASN:ND2	2.37	0.58
1:I:130:PRO:HA	1:I:290:MET:HE1	1.85	0.58
1:I:1055:GLU:HG3	1:I:1056:GLU:H	1.68	0.58
1:J:882:LEU:HG	1:J:883:ILE:HG13	1.86	0.58
1:J:1055:GLU:HG3	1:J:1056:GLU:H	1.68	0.58
1:L:194:GLU:O	1:L:197:GLN:N	2.37	0.58
1:L:313:PRO:HA	1:L:338:TRP:HH2	1.63	0.58
1:L:371:ARG:HB3	1:L:389:ILE:HG21	1.85	0.58
1:L:444:VAL:HG22	1:L:478:ILE:HG12	1.85	0.58
1:M:319:THR:O	1:M:320:ASN:ND2	2.37	0.58
1:M:371:ARG:HB3	1:M:389:ILE:HG21	1.85	0.58
1:M:1055:GLU:HG3	1:M:1056:GLU:H	1.68	0.58
1:N:458:LEU:HA	1:N:587:ARG:NH2	2.19	0.58
1:N:1055:GLU:HG3	1:N:1056:GLU:H	1.68	0.58
1:O:319:THR:O	1:O:320:ASN:ND2	2.37	0.58
1:P:24:VAL:HA	1:P:58:THR:HG21	1.85	0.58
1:P:319:THR:O	1:P:320:ASN:ND2	2.37	0.58
1:A:492:LEU:HD21	1:A:562:LEU:HD23	1.86	0.58
1:A:504:ASP:OD2	1:A:509:ASN:O	2.21	0.58
1:B:371:ARG:HB3	1:B:389:ILE:HG21	1.85	0.58
1:B:548:LYS:HZ2	1:B:601:GLN:H	1.52	0.58
1:B:1055:GLU:HG3	1:B:1056:GLU:H	1.68	0.58
1:C:882:LEU:HG	1:C:883:ILE:HG13	1.86	0.58
1:D:194:GLU:O	1:D:197:GLN:N	2.37	0.58
1:D:314:ARG:O	1:D:315:GLU:HB2	2.03	0.58
1:D:371:ARG:HB3	1:D:389:ILE:HG21	1.85	0.58
1:E:24:VAL:HA	1:E:58:THR:HG21	1.85	0.58
1:G:336:ALA:HA	1:G:340:ASN:HB3	1.85	0.58
1:G:519:GLN:HG2	1:G:523:PHE:CE2	2.37	0.58
1:G:563:ARG:HD3	1:G:566:LEU:HD12	1.86	0.58
1:H:319:THR:O	1:H:320:ASN:ND2	2.37	0.58
1:I:819:PHE:HD1	1:I:830:LEU:HD13	1.68	0.58
1:J:24:VAL:HA	1:J:58:THR:HG21	1.85	0.58
1:L:11:GLN:NE2	1:L:70:GLU:OE1	2.36	0.58
1:L:882:LEU:HG	1:L:883:ILE:HG13	1.86	0.58
1:M:317:LEU:C	1:M:318:THR:HG1	1.95	0.58
1:N:492:LEU:HD21	1:N:562:LEU:HD23	1.86	0.58
1:O:316:VAL:HG23	1:O:316:VAL:O	2.02	0.58
1:P:553:LEU:HB3	1:P:556:SER:OG	2.04	0.58
1:P:563:ARG:HD3	1:P:566:LEU:HD12	1.86	0.58
1:B:548:LYS:NZ	1:B:601:GLN:CA	2.61	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:11:GLN:NE2	1:C:70:GLU:OE1	2.36	0.58
1:C:1055:GLU:HG3	1:C:1056:GLU:H	1.68	0.58
1:D:397:ASP:O	1:D:401:VAL:N	2.28	0.58
1:D:458:LEU:HA	1:D:587:ARG:NH2	2.19	0.58
1:E:1055:GLU:HG3	1:E:1056:GLU:H	1.68	0.58
1:G:553:LEU:HB3	1:G:556:SER:OG	2.04	0.58
1:I:492:LEU:HD21	1:I:562:LEU:HD23	1.85	0.58
1:I:518:LEU:HA	1:I:521:LEU:HB3	1.84	0.58
1:J:194:GLU:O	1:J:197:GLN:N	2.37	0.58
1:J:319:THR:O	1:J:320:ASN:ND2	2.37	0.58
1:K:194:GLU:O	1:K:197:GLN:N	2.37	0.58
1:M:194:GLU:O	1:M:197:GLN:N	2.37	0.58
1:M:458:LEU:HA	1:M:587:ARG:NH2	2.19	0.58
1:N:248:GLN:CD	1:N:268:PHE:CE2	2.74	0.58
1:P:517:THR:O	1:P:519:GLN:N	2.35	0.58
1:B:194:GLU:O	1:B:197:GLN:N	2.37	0.58
1:B:444:VAL:HG22	1:B:478:ILE:HG12	1.85	0.58
1:B:553:LEU:HB3	1:B:556:SER:OG	2.04	0.58
1:B:882:LEU:HG	1:B:883:ILE:HG13	1.86	0.58
1:D:316:VAL:HG23	1:D:316:VAL:O	2.02	0.58
1:E:194:GLU:O	1:E:197:GLN:N	2.37	0.58
1:F:492:LEU:HD21	1:F:562:LEU:HD23	1.86	0.58
1:G:517:THR:O	1:G:519:GLN:N	2.35	0.58
1:H:316:VAL:HG23	1:H:316:VAL:O	2.02	0.58
1:H:553:LEU:HB3	1:H:556:SER:OG	2.04	0.58
1:K:316:VAL:HG23	1:K:316:VAL:O	2.03	0.58
1:K:458:LEU:HA	1:K:587:ARG:NH2	2.19	0.58
1:L:365:TYR:O	1:L:368:MET:N	2.21	0.58
1:L:458:LEU:HA	1:L:587:ARG:NH2	2.19	0.58
1:M:444:VAL:HG22	1:M:478:ILE:HG12	1.85	0.58
1:M:553:LEU:HB3	1:M:556:SER:OG	2.04	0.58
1:M:882:LEU:HG	1:M:883:ILE:HG13	1.86	0.58
1:O:194:GLU:O	1:O:197:GLN:N	2.37	0.58
1:P:336:ALA:HA	1:P:340:ASN:HB3	1.85	0.58
1:A:553:LEU:HB3	1:A:556:SER:OG	2.04	0.58
1:B:458:LEU:HA	1:B:587:ARG:NH2	2.19	0.58
1:C:444:VAL:HG22	1:C:478:ILE:HG12	1.85	0.58
1:C:458:LEU:HA	1:C:587:ARG:NH2	2.19	0.58
1:C:499:GLN:HA	1:C:502:ARG:HD2	1.86	0.58
1:E:319:THR:O	1:E:320:ASN:ND2	2.37	0.58
1:F:819:PHE:HD1	1:F:830:LEU:HD13	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:188:SER:N	1:H:251:APK:O2P	2.31	0.58
1:H:194:GLU:O	1:H:197:GLN:N	2.37	0.58
1:H:819:PHE:HD1	1:H:830:LEU:HD13	1.68	0.58
1:I:882:LEU:HG	1:I:883:ILE:HG13	1.86	0.58
1:I:1031:ILE:HD11	1:I:1068:ILE:HD13	1.86	0.58
1:L:314:ARG:O	1:L:315:GLU:HB2	2.03	0.58
1:L:316:VAL:HG23	1:L:316:VAL:O	2.03	0.58
1:N:319:THR:O	1:N:320:ASN:ND2	2.37	0.58
1:N:553:LEU:HB3	1:N:556:SER:OG	2.04	0.58
1:O:492:LEU:HD21	1:O:562:LEU:HD23	1.86	0.58
1:O:553:LEU:HB3	1:O:556:SER:OG	2.04	0.58
1:P:378:SER:HA	1:P:422:ILE:HD12	1.84	0.58
1:A:319:THR:O	1:A:320:ASN:ND2	2.37	0.57
1:B:336:ALA:HA	1:B:340:ASN:HB3	1.85	0.57
1:C:371:ARG:HB3	1:C:389:ILE:HG21	1.85	0.57
1:D:553:LEU:HB3	1:D:556:SER:OG	2.04	0.57
1:D:882:LEU:HG	1:D:883:ILE:HG13	1.86	0.57
1:E:458:LEU:HA	1:E:587:ARG:NH2	2.19	0.57
1:F:114:TYR:O	1:F:117:ASN:N	2.36	0.57
1:F:1031:ILE:HD11	1:F:1068:ILE:HD13	1.86	0.57
1:G:378:SER:HA	1:G:422:ILE:HD12	1.84	0.57
1:I:600:ARG:NE	1:I:1229:GLU:OE1	2.37	0.57
1:J:458:LEU:HA	1:J:587:ARG:NH2	2.19	0.57
1:K:553:LEU:HB3	1:K:556:SER:OG	2.04	0.57
1:K:882:LEU:HG	1:K:883:ILE:HG13	1.86	0.57
1:L:369:PHE:O	1:L:372:LEU:N	2.37	0.57
1:M:336:ALA:HA	1:M:340:ASN:HB3	1.85	0.57
1:M:378:SER:H	1:M:422:ILE:HD13	1.62	0.57
1:M:548:LYS:NZ	1:M:601:GLN:CA	2.61	0.57
1:N:336:ALA:HA	1:N:340:ASN:HB3	1.85	0.57
1:O:769:ARG:HH12	1:O:771:PHE:HB2	1.67	0.57
1:A:369:PHE:O	1:A:372:LEU:N	2.37	0.57
1:A:444:VAL:HG22	1:A:478:ILE:HG12	1.85	0.57
1:A:633:THR:HG21	1:A:643:TYR:CA	2.33	0.57
1:B:369:PHE:O	1:B:372:LEU:N	2.37	0.57
1:B:499:GLN:HA	1:B:502:ARG:HD2	1.86	0.57
1:B:504:ASP:OD2	1:B:509:ASN:O	2.21	0.57
1:C:314:ARG:O	1:C:315:GLU:HB2	2.03	0.57
1:C:336:ALA:HA	1:C:340:ASN:HB3	1.85	0.57
1:C:553:LEU:HB3	1:C:556:SER:OG	2.04	0.57
1:D:11:GLN:NE2	1:D:70:GLU:OE1	2.36	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:553:LEU:HB3	1:F:556:SER:OG	2.04	0.57
1:F:600:ARG:NE	1:F:1229:GLU:OE1	2.37	0.57
1:F:882:LEU:HG	1:F:883:ILE:HG13	1.86	0.57
1:G:492:LEU:HD21	1:G:562:LEU:HD23	1.85	0.57
1:H:492:LEU:HD21	1:H:562:LEU:HD23	1.86	0.57
1:H:769:ARG:HH12	1:H:771:PHE:HB2	1.67	0.57
1:I:553:LEU:HB3	1:I:556:SER:OG	2.04	0.57
1:K:11:GLN:NE2	1:K:70:GLU:OE1	2.36	0.57
1:K:499:GLN:HA	1:K:502:ARG:HD2	1.86	0.57
1:K:504:ASP:OD2	1:K:509:ASN:O	2.21	0.57
1:K:1031:ILE:HD11	1:K:1068:ILE:HD13	1.86	0.57
1:L:557:LYS:HZ2	1:L:1223:GLN:HG3	1.68	0.57
1:M:369:PHE:O	1:M:372:LEU:N	2.37	0.57
1:M:499:GLN:HA	1:M:502:ARG:HD2	1.86	0.57
1:M:504:ASP:OD2	1:M:509:ASN:O	2.21	0.57
1:N:369:PHE:O	1:N:372:LEU:N	2.37	0.57
1:N:444:VAL:HG22	1:N:478:ILE:HG12	1.85	0.57
1:O:819:PHE:HD1	1:O:830:LEU:HD13	1.68	0.57
1:P:365:TYR:O	1:P:368:MET:N	2.21	0.57
1:P:492:LEU:HD21	1:P:562:LEU:HD23	1.85	0.57
1:A:336:ALA:HA	1:A:340:ASN:HB3	1.85	0.57
1:C:369:PHE:O	1:C:372:LEU:N	2.38	0.57
1:D:369:PHE:O	1:D:372:LEU:N	2.38	0.57
1:D:504:ASP:OD2	1:D:509:ASN:O	2.21	0.57
1:D:1031:ILE:HD11	1:D:1068:ILE:HD13	1.86	0.57
1:E:11:GLN:NE2	1:E:70:GLU:OE1	2.36	0.57
1:F:603:ILE:HD11	1:F:635:VAL:HG13	1.87	0.57
1:H:458:LEU:HA	1:H:587:ARG:NH2	2.19	0.57
1:I:319:THR:O	1:I:320:ASN:ND2	2.37	0.57
1:I:603:ILE:HD11	1:I:635:VAL:HG13	1.87	0.57
1:K:369:PHE:O	1:K:372:LEU:N	2.38	0.57
1:K:397:ASP:O	1:K:401:VAL:N	2.28	0.57
1:L:114:TYR:O	1:L:117:ASN:N	2.36	0.57
1:L:319:THR:O	1:L:320:ASN:ND2	2.37	0.57
1:L:499:GLN:HA	1:L:502:ARG:HD2	1.86	0.57
1:M:548:LYS:HZ2	1:M:601:GLN:H	1.53	0.57
1:N:633:THR:HG21	1:N:643:TYR:CA	2.33	0.57
1:A:142:ARG:NH1	1:H:14:ASP:OD2	2.35	0.57
1:C:319:THR:O	1:C:320:ASN:ND2	2.37	0.57
1:D:499:GLN:HA	1:D:502:ARG:HD2	1.86	0.57
1:G:365:TYR:O	1:G:368:MET:N	2.21	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:24:VAL:HA	1:I:58:THR:HG21	1.85	0.57
1:J:369:PHE:O	1:J:372:LEU:N	2.37	0.57
1:L:378:SER:HA	1:L:422:ILE:HD12	1.84	0.57
1:L:504:ASP:OD2	1:L:509:ASN:O	2.21	0.57
1:O:188:SER:N	1:O:251:APK:O2P	2.31	0.57
1:O:603:ILE:HD11	1:O:635:VAL:HG13	1.87	0.57
1:A:518:LEU:HD22	1:A:643:TYR:CE1	2.22	0.57
1:B:378:SER:H	1:B:422:ILE:HD13	1.62	0.57
1:B:951:VAL:HA	1:B:987:VAL:HG11	1.87	0.57
1:C:378:SER:HA	1:C:422:ILE:HD12	1.84	0.57
1:C:504:ASP:OD2	1:C:509:ASN:O	2.21	0.57
1:E:369:PHE:O	1:E:372:LEU:N	2.37	0.57
1:H:603:ILE:HD11	1:H:635:VAL:HG13	1.87	0.57
1:I:563:ARG:HD3	1:I:566:LEU:HD12	1.86	0.57
1:J:11:GLN:NE2	1:J:70:GLU:OE1	2.36	0.57
1:L:553:LEU:HB3	1:L:556:SER:OG	2.04	0.57
1:M:518:LEU:HD22	1:M:643:TYR:CE1	2.22	0.57
1:B:423:PRO:O	1:B:424:SER:HB3	2.05	0.57
1:B:518:LEU:HD22	1:B:643:TYR:CE1	2.22	0.57
1:C:423:PRO:O	1:C:424:SER:HB3	2.05	0.57
1:D:548:LYS:HZ2	1:D:601:GLN:H	1.51	0.57
1:D:553:LEU:HB3	1:D:556:SER:HG	1.69	0.57
1:D:557:LYS:HZ2	1:D:1223:GLN:HG3	1.69	0.57
1:E:557:LYS:CE	1:E:1224:LEU:O	2.51	0.57
1:F:24:VAL:HA	1:F:58:THR:HG21	1.85	0.57
1:F:563:ARG:HD3	1:F:566:LEU:HD12	1.86	0.57
1:H:248:GLN:CD	1:H:268:PHE:CE2	2.74	0.57
1:H:369:PHE:O	1:H:372:LEU:N	2.38	0.57
1:I:423:PRO:O	1:I:424:SER:HB3	2.05	0.57
1:M:314:ARG:O	1:M:315:GLU:HB2	2.03	0.57
1:M:951:VAL:HA	1:M:987:VAL:HG11	1.87	0.57
1:N:124:ASN:H	1:N:303:LYS:HZ3	1.53	0.57
1:N:472:GLY:HA2	1:N:475:LEU:HD12	1.87	0.57
1:N:518:LEU:HD22	1:N:643:TYR:CE1	2.22	0.57
1:N:563:ARG:HD3	1:N:566:LEU:HD12	1.86	0.57
1:O:458:LEU:HA	1:O:587:ARG:NH2	2.19	0.57
1:O:1177:TYR:HE2	1:P:916:LYS:HE2	1.70	0.57
1:P:301:LEU:HD23	1:P:313:PRO:CD	2.35	0.57
1:P:633:THR:HG21	1:P:643:TYR:CA	2.33	0.57
1:A:472:GLY:HA2	1:A:475:LEU:HD12	1.87	0.57
1:A:563:ARG:HD3	1:A:566:LEU:HD12	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:882:LEU:HG	1:A:883:ILE:HG13	1.86	0.57
1:E:248:GLN:CD	1:E:268:PHE:CE2	2.74	0.57
1:F:319:THR:O	1:F:320:ASN:ND2	2.37	0.57
1:G:301:LEU:HD23	1:G:313:PRO:CD	2.35	0.57
1:G:442:SER:O	1:G:446:HIS:CG	2.55	0.57
1:G:505:SER:OG	1:G:513:SER:OG	2.05	0.57
1:H:449:ILE:HB	1:H:450:PRO:HD3	1.86	0.57
1:H:563:ARG:HD3	1:H:566:LEU:HD12	1.86	0.57
1:J:378:SER:H	1:J:422:ILE:HD13	1.62	0.57
1:L:336:ALA:HA	1:L:340:ASN:HB3	1.85	0.57
1:L:423:PRO:O	1:L:424:SER:HB3	2.05	0.57
1:L:472:GLY:HA2	1:L:475:LEU:HD12	1.87	0.57
1:M:423:PRO:O	1:M:424:SER:HB3	2.05	0.57
1:O:369:PHE:O	1:O:372:LEU:N	2.38	0.57
1:P:882:LEU:HG	1:P:883:ILE:HG13	1.86	0.57
1:A:449:ILE:HB	1:A:450:PRO:HD3	1.87	0.57
1:B:472:GLY:HA2	1:B:475:LEU:HD12	1.87	0.57
1:B:603:ILE:HD11	1:B:635:VAL:HG13	1.87	0.57
1:D:423:PRO:O	1:D:424:SER:HB3	2.05	0.57
1:F:115:ASN:HB3	1:G:257:ASN:OD1	2.04	0.57
1:G:371:ARG:HD3	1:G:435:ASN:HD21	1.70	0.57
1:G:499:GLN:HA	1:G:502:ARG:HD2	1.86	0.57
1:G:600:ARG:NE	1:G:1229:GLU:OE1	2.37	0.57
1:G:633:THR:HG21	1:G:643:TYR:CA	2.33	0.57
1:G:882:LEU:HG	1:G:883:ILE:HG13	1.86	0.57
1:H:301:LEU:HD23	1:H:313:PRO:CD	2.35	0.57
1:I:114:TYR:O	1:I:117:ASN:N	2.36	0.57
1:J:423:PRO:O	1:J:424:SER:HB3	2.05	0.57
1:J:557:LYS:CE	1:J:1224:LEU:O	2.51	0.57
1:K:423:PRO:O	1:K:424:SER:HB3	2.05	0.57
1:K:472:GLY:HA2	1:K:475:LEU:HD12	1.87	0.57
1:K:603:ILE:HD11	1:K:635:VAL:HG13	1.87	0.57
1:M:472:GLY:HA2	1:M:475:LEU:HD12	1.87	0.57
1:M:603:ILE:HD11	1:M:635:VAL:HG13	1.87	0.57
1:N:449:ILE:HB	1:N:450:PRO:HD3	1.87	0.57
1:O:248:GLN:CD	1:O:268:PHE:CE2	2.74	0.57
1:O:301:LEU:HD23	1:O:313:PRO:CD	2.35	0.57
1:O:449:ILE:HB	1:O:450:PRO:HD3	1.86	0.57
1:O:472:GLY:HA2	1:O:475:LEU:HD12	1.87	0.57
1:P:371:ARG:HD3	1:P:435:ASN:HD21	1.70	0.57
1:P:442:SER:O	1:P:446:HIS:CG	2.55	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:600:ARG:NE	1:P:1229:GLU:OE1	2.37	0.57
1:B:314:ARG:O	1:B:315:GLU:HB2	2.03	0.57
1:C:472:GLY:HA2	1:C:475:LEU:HD12	1.87	0.57
1:D:472:GLY:HA2	1:D:475:LEU:HD12	1.87	0.57
1:D:603:ILE:HD11	1:D:635:VAL:HG13	1.87	0.57
1:E:600:ARG:NE	1:E:1229:GLU:OE1	2.37	0.57
1:F:423:PRO:O	1:F:424:SER:HB3	2.05	0.57
1:H:336:ALA:O	1:H:338:TRP:N	2.38	0.57
1:H:371:ARG:HD3	1:H:435:ASN:HD21	1.70	0.57
1:H:472:GLY:HA2	1:H:475:LEU:HD12	1.87	0.57
1:I:124:ASN:H	1:I:303:LYS:NZ	2.03	0.57
1:I:301:LEU:HD23	1:I:313:PRO:CD	2.35	0.57
1:I:336:ALA:HA	1:I:340:ASN:HB3	1.85	0.57
1:I:557:LYS:HZ2	1:I:1223:GLN:HG3	1.69	0.57
1:J:248:GLN:CD	1:J:268:PHE:CE2	2.74	0.57
1:N:371:ARG:HD3	1:N:435:ASN:HD21	1.70	0.57
1:N:769:ARG:HH12	1:N:771:PHE:HB2	1.67	0.57
1:N:882:LEU:HG	1:N:883:ILE:HG13	1.86	0.57
1:O:336:ALA:O	1:O:338:TRP:N	2.38	0.57
1:O:371:ARG:HD3	1:O:435:ASN:HD21	1.70	0.57
1:O:882:LEU:HG	1:O:883:ILE:HG13	1.86	0.57
1:P:124:ASN:H	1:P:303:LYS:NZ	2.03	0.57
1:P:499:GLN:HA	1:P:502:ARG:HD2	1.86	0.57
1:B:347:ASP:OD1	1:B:348:LYS:N	2.37	0.57
1:B:563:ARG:HD3	1:B:566:LEU:HD12	1.86	0.57
1:D:155:SER:HA	1:D:321:PRO:HD2	1.87	0.57
1:E:423:PRO:O	1:E:424:SER:HB3	2.05	0.57
1:E:449:ILE:HB	1:E:450:PRO:HD3	1.86	0.57
1:E:472:GLY:HA2	1:E:475:LEU:HD12	1.87	0.57
1:F:124:ASN:H	1:F:303:LYS:NZ	2.03	0.57
1:F:198:LYS:NZ	1:G:222:HIS:CD2	2.73	0.57
1:F:301:LEU:HD23	1:F:313:PRO:CD	2.35	0.57
1:F:371:ARG:HD3	1:F:435:ASN:HD21	1.70	0.57
1:G:124:ASN:H	1:G:303:LYS:NZ	2.03	0.57
1:G:458:LEU:CD2	1:G:459:ILE:H	2.18	0.57
1:H:336:ALA:HA	1:H:340:ASN:HB3	1.85	0.57
1:H:423:PRO:O	1:H:424:SER:HB3	2.05	0.57
1:H:458:LEU:CD2	1:H:459:ILE:H	2.18	0.57
1:K:155:SER:HA	1:K:321:PRO:HD2	1.87	0.57
1:K:951:VAL:HA	1:K:987:VAL:HG11	1.87	0.57
1:M:347:ASP:OD1	1:M:348:LYS:N	2.37	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:563:ARG:HD3	1:M:566:LEU:HD12	1.86	0.57
1:O:458:LEU:CD2	1:O:459:ILE:H	2.18	0.57
1:O:563:ARG:HD3	1:O:566:LEU:HD12	1.86	0.57
1:O:951:VAL:HA	1:O:987:VAL:HG11	1.87	0.57
1:A:371:ARG:HD3	1:A:435:ASN:HD21	1.70	0.56
1:A:423:PRO:O	1:A:424:SER:HB3	2.05	0.56
1:A:769:ARG:HH12	1:A:771:PHE:HB2	1.67	0.56
1:B:633:THR:HG21	1:B:643:TYR:CA	2.33	0.56
1:C:557:LYS:CE	1:C:1224:LEU:O	2.50	0.56
1:D:124:ASN:H	1:D:303:LYS:NZ	2.03	0.56
1:D:951:VAL:HA	1:D:987:VAL:HG11	1.87	0.56
1:E:124:ASN:H	1:E:303:LYS:NZ	2.03	0.56
1:E:499:GLN:HA	1:E:502:ARG:HD2	1.86	0.56
1:F:336:ALA:O	1:F:338:TRP:N	2.38	0.56
1:H:882:LEU:HG	1:H:883:ILE:HG13	1.86	0.56
1:H:951:VAL:HA	1:H:987:VAL:HG11	1.87	0.56
1:H:1058:ILE:HG13	1:H:1059:ASP:H	1.70	0.56
1:J:124:ASN:H	1:J:303:LYS:NZ	2.03	0.56
1:J:449:ILE:HB	1:J:450:PRO:HD3	1.87	0.56
1:J:600:ARG:NE	1:J:1229:GLU:OE1	2.37	0.56
1:K:124:ASN:H	1:K:303:LYS:NZ	2.03	0.56
1:L:557:LYS:CE	1:L:1224:LEU:O	2.50	0.56
1:M:301:LEU:HD23	1:M:313:PRO:CD	2.35	0.56
1:M:1058:ILE:HG13	1:M:1059:ASP:H	1.70	0.56
1:N:301:LEU:HD23	1:N:313:PRO:CD	2.35	0.56
1:N:1058:ILE:HG13	1:N:1059:ASP:H	1.70	0.56
1:O:336:ALA:HA	1:O:340:ASN:HB3	1.85	0.56
1:O:423:PRO:O	1:O:424:SER:HB3	2.05	0.56
1:O:1058:ILE:HG13	1:O:1059:ASP:H	1.70	0.56
1:P:458:LEU:CD2	1:P:459:ILE:H	2.18	0.56
1:A:301:LEU:HD23	1:A:313:PRO:CD	2.35	0.56
1:B:301:LEU:HD23	1:B:313:PRO:CD	2.35	0.56
1:B:336:ALA:O	1:B:338:TRP:N	2.38	0.56
1:E:548:LYS:HZ2	1:E:601:GLN:H	1.51	0.56
1:F:248:GLN:CD	1:F:268:PHE:CE2	2.74	0.56
1:F:336:ALA:HA	1:F:340:ASN:HB3	1.85	0.56
1:F:518:LEU:HD12	1:F:518:LEU:N	2.20	0.56
1:G:1058:ILE:HG13	1:G:1059:ASP:H	1.70	0.56
1:H:124:ASN:H	1:H:303:LYS:HZ3	1.54	0.56
1:I:336:ALA:O	1:I:338:TRP:N	2.38	0.56
1:I:371:ARG:HD3	1:I:435:ASN:HD21	1.70	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:155:SER:HA	1:J:321:PRO:HD2	1.87	0.56
1:J:472:GLY:HA2	1:J:475:LEU:HD12	1.87	0.56
1:J:557:LYS:HZ2	1:J:1223:GLN:HG3	1.70	0.56
1:M:336:ALA:O	1:M:338:TRP:N	2.38	0.56
1:M:633:THR:HG21	1:M:643:TYR:CA	2.33	0.56
1:N:423:PRO:O	1:N:424:SER:HB3	2.05	0.56
1:O:124:ASN:H	1:O:303:LYS:HZ3	1.54	0.56
1:A:458:LEU:CD2	1:A:459:ILE:H	2.18	0.56
1:A:499:GLN:HA	1:A:502:ARG:HD2	1.86	0.56
1:A:603:ILE:HD11	1:A:635:VAL:HG13	1.87	0.56
1:A:1058:ILE:HG13	1:A:1059:ASP:H	1.70	0.56
1:B:1058:ILE:HG13	1:B:1059:ASP:H	1.70	0.56
1:C:124:ASN:H	1:C:303:LYS:NZ	2.03	0.56
1:C:301:LEU:HD23	1:C:313:PRO:CD	2.35	0.56
1:C:633:THR:HG21	1:C:643:TYR:CA	2.33	0.56
1:D:188:SER:N	1:D:251:APK:O2P	2.31	0.56
1:D:301:LEU:HD23	1:D:313:PRO:CD	2.35	0.56
1:D:336:ALA:HA	1:D:340:ASN:HB3	1.85	0.56
1:D:449:ILE:HB	1:D:450:PRO:HD3	1.86	0.56
1:D:486:LEU:O	1:D:488:ARG:HG3	2.06	0.56
1:E:155:SER:HA	1:E:321:PRO:HD2	1.87	0.56
1:E:241:LEU:HD12	1:E:241:LEU:O	2.06	0.56
1:E:486:LEU:O	1:E:488:ARG:HG3	2.06	0.56
1:E:557:LYS:HZ2	1:E:1223:GLN:HG3	1.70	0.56
1:F:115:ASN:O	1:G:257:ASN:ND2	2.38	0.56
1:F:378:SER:HA	1:F:422:ILE:HD12	1.84	0.56
1:F:472:GLY:HA2	1:F:475:LEU:HD12	1.87	0.56
1:G:155:SER:HA	1:G:321:PRO:HD2	1.87	0.56
1:G:449:ILE:HB	1:G:450:PRO:HD3	1.86	0.56
1:G:520:GLN:HA	1:G:523:PHE:HD2	1.71	0.56
1:H:397:ASP:O	1:H:401:VAL:N	2.28	0.56
1:H:486:LEU:O	1:H:488:ARG:HG3	2.06	0.56
1:H:1031:ILE:HD11	1:H:1068:ILE:HD13	1.86	0.56
1:I:369:PHE:O	1:I:372:LEU:N	2.38	0.56
1:J:241:LEU:HD12	1:J:241:LEU:O	2.06	0.56
1:J:301:LEU:HD23	1:J:313:PRO:CD	2.35	0.56
1:J:486:LEU:O	1:J:488:ARG:HG3	2.06	0.56
1:J:499:GLN:HA	1:J:502:ARG:HD2	1.86	0.56
1:J:518:LEU:HD12	1:J:518:LEU:N	2.20	0.56
1:J:553:LEU:HB3	1:J:556:SER:OG	2.04	0.56
1:K:301:LEU:HD23	1:K:313:PRO:CD	2.35	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:336:ALA:O	1:K:338:TRP:N	2.38	0.56
1:K:449:ILE:HB	1:K:450:PRO:HD3	1.86	0.56
1:K:600:ARG:NE	1:K:1229:GLU:OE1	2.37	0.56
1:L:124:ASN:H	1:L:303:LYS:NZ	2.03	0.56
1:L:1058:ILE:HG13	1:L:1059:ASP:H	1.70	0.56
1:M:449:ILE:HB	1:M:450:PRO:HD3	1.86	0.56
1:N:155:SER:HA	1:N:321:PRO:HD2	1.87	0.56
1:N:314:ARG:O	1:N:315:GLU:HB2	2.03	0.56
1:N:458:LEU:CD2	1:N:459:ILE:H	2.18	0.56
1:N:486:LEU:O	1:N:488:ARG:HG3	2.05	0.56
1:N:499:GLN:HA	1:N:502:ARG:HD2	1.86	0.56
1:O:486:LEU:O	1:O:488:ARG:HG3	2.05	0.56
1:P:449:ILE:HB	1:P:450:PRO:HD3	1.87	0.56
1:P:1058:ILE:HG13	1:P:1059:ASP:H	1.70	0.56
1:A:155:SER:HA	1:A:321:PRO:HD2	1.87	0.56
1:A:336:ALA:O	1:A:338:TRP:N	2.38	0.56
1:B:442:SER:O	1:B:446:HIS:CG	2.55	0.56
1:B:449:ILE:HB	1:B:450:PRO:HD3	1.87	0.56
1:B:520:GLN:HA	1:B:523:PHE:HD2	1.71	0.56
1:C:1058:ILE:HG13	1:C:1059:ASP:H	1.70	0.56
1:D:336:ALA:O	1:D:338:TRP:N	2.38	0.56
1:D:563:ARG:HD3	1:D:566:LEU:HD12	1.86	0.56
1:E:301:LEU:HD23	1:E:313:PRO:CD	2.35	0.56
1:E:518:LEU:HD12	1:E:518:LEU:N	2.20	0.56
1:E:553:LEU:HB3	1:E:556:SER:OG	2.04	0.56
1:E:563:ARG:HD3	1:E:566:LEU:HD12	1.86	0.56
1:F:520:GLN:HA	1:F:523:PHE:HD2	1.71	0.56
1:G:369:PHE:O	1:G:372:LEU:N	2.37	0.56
1:H:600:ARG:NE	1:H:1229:GLU:OE1	2.37	0.56
1:I:458:LEU:CD2	1:I:459:ILE:H	2.18	0.56
1:I:520:GLN:HA	1:I:523:PHE:HD2	1.71	0.56
1:J:548:LYS:HZ2	1:J:601:GLN:H	1.51	0.56
1:K:188:SER:N	1:K:251:APK:O2P	2.31	0.56
1:K:336:ALA:HA	1:K:340:ASN:HB3	1.85	0.56
1:K:486:LEU:O	1:K:488:ARG:HG3	2.06	0.56
1:K:553:LEU:HB3	1:K:556:SER:HG	1.70	0.56
1:K:563:ARG:HD3	1:K:566:LEU:HD12	1.86	0.56
1:L:124:ASN:H	1:L:303:LYS:HZ3	1.53	0.56
1:L:301:LEU:HD23	1:L:313:PRO:CD	2.35	0.56
1:N:124:ASN:H	1:N:303:LYS:NZ	2.03	0.56
1:O:124:ASN:H	1:O:303:LYS:NZ	2.03	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:1031:ILE:HD11	1:O:1068:ILE:HD13	1.86	0.56
1:P:155:SER:HA	1:P:321:PRO:HD2	1.87	0.56
1:P:369:PHE:O	1:P:372:LEU:N	2.38	0.56
1:P:378:SER:H	1:P:422:ILE:HD13	1.61	0.56
1:P:472:GLY:HA2	1:P:475:LEU:HD12	1.87	0.56
1:A:124:ASN:H	1:A:303:LYS:NZ	2.03	0.56
1:B:371:ARG:HD3	1:B:435:ASN:HD21	1.70	0.56
1:C:347:ASP:OD1	1:C:348:LYS:N	2.37	0.56
1:C:492:LEU:HD21	1:C:562:LEU:HD23	1.86	0.56
1:D:241:LEU:HD12	1:D:241:LEU:O	2.05	0.56
1:D:600:ARG:NE	1:D:1229:GLU:OE1	2.37	0.56
1:E:520:GLN:HA	1:E:523:PHE:HD2	1.71	0.56
1:F:241:LEU:O	1:F:241:LEU:HD12	2.06	0.56
1:F:458:LEU:CD2	1:F:459:ILE:H	2.18	0.56
1:F:486:LEU:O	1:F:488:ARG:HG3	2.06	0.56
1:F:499:GLN:HA	1:F:502:ARG:HD2	1.86	0.56
1:G:472:GLY:HA2	1:G:475:LEU:HD12	1.87	0.56
1:H:350:THR:HA	1:H:353:ILE:HG22	1.88	0.56
1:H:633:THR:HG21	1:H:643:TYR:CA	2.33	0.56
1:I:449:ILE:HB	1:I:450:PRO:HD3	1.86	0.56
1:I:472:GLY:HA2	1:I:475:LEU:HD12	1.87	0.56
1:J:1031:ILE:HD11	1:J:1068:ILE:HD13	1.86	0.56
1:K:241:LEU:HD12	1:K:241:LEU:O	2.06	0.56
1:L:492:LEU:HD21	1:L:562:LEU:HD23	1.86	0.56
1:L:563:ARG:HD3	1:L:566:LEU:HD12	1.86	0.56
1:M:371:ARG:HD3	1:M:435:ASN:HD21	1.70	0.56
1:M:442:SER:O	1:M:446:HIS:CG	2.55	0.56
1:M:520:GLN:HA	1:M:523:PHE:HD2	1.71	0.56
1:N:603:ILE:HD11	1:N:635:VAL:HG13	1.87	0.56
1:O:350:THR:HA	1:O:353:ILE:HG22	1.88	0.56
1:P:248:GLN:CD	1:P:268:PHE:CE2	2.74	0.56
1:P:336:ALA:O	1:P:338:TRP:N	2.38	0.56
1:P:350:THR:HA	1:P:353:ILE:HG22	1.88	0.56
1:P:423:PRO:O	1:P:424:SER:HB3	2.05	0.56
1:P:486:LEU:O	1:P:488:ARG:HG3	2.06	0.56
1:P:520:GLN:HA	1:P:523:PHE:HD2	1.71	0.56
1:A:314:ARG:O	1:A:315:GLU:HB2	2.03	0.56
1:A:486:LEU:O	1:A:488:ARG:HG3	2.06	0.56
1:C:563:ARG:HD3	1:C:566:LEU:HD12	1.86	0.56
1:C:984:LEU:HD12	1:C:1022:ALA:HB2	1.88	0.56
1:F:369:PHE:O	1:F:372:LEU:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:946:ARG:HG3	1:F:947:GLU:H	1.71	0.56
1:G:248:GLN:CD	1:G:268:PHE:CE2	2.74	0.56
1:G:336:ALA:O	1:G:338:TRP:N	2.38	0.56
1:G:350:THR:HA	1:G:353:ILE:HG22	1.88	0.56
1:G:378:SER:H	1:G:422:ILE:HD13	1.61	0.56
1:G:423:PRO:O	1:G:424:SER:HB3	2.05	0.56
1:G:486:LEU:O	1:G:488:ARG:HG3	2.06	0.56
1:H:124:ASN:H	1:H:303:LYS:NZ	2.03	0.56
1:J:520:GLN:HA	1:J:523:PHE:HD2	1.71	0.56
1:J:563:ARG:HD3	1:J:566:LEU:HD12	1.86	0.56
1:K:557:LYS:HZ2	1:K:1223:GLN:HG3	1.70	0.56
1:L:241:LEU:HD12	1:L:241:LEU:O	2.06	0.56
1:M:124:ASN:H	1:M:303:LYS:NZ	2.03	0.56
1:M:1031:ILE:HD11	1:M:1068:ILE:HD13	1.86	0.56
1:N:336:ALA:O	1:N:338:TRP:N	2.38	0.56
1:O:518:LEU:HD12	1:O:518:LEU:N	2.20	0.56
1:O:600:ARG:NE	1:O:1229:GLU:OE1	2.37	0.56
1:O:633:THR:HG21	1:O:643:TYR:CA	2.33	0.56
1:A:350:THR:HA	1:A:353:ILE:HG22	1.88	0.56
1:A:1031:ILE:HD11	1:A:1068:ILE:HD13	1.86	0.56
1:B:124:ASN:H	1:B:303:LYS:NZ	2.03	0.56
1:B:984:LEU:HD12	1:B:1022:ALA:HB2	1.88	0.56
1:B:1031:ILE:HD11	1:B:1068:ILE:HD13	1.86	0.56
1:C:155:SER:HA	1:C:321:PRO:HD2	1.87	0.56
1:C:336:ALA:O	1:C:338:TRP:N	2.38	0.56
1:D:378:SER:HA	1:D:422:ILE:HD12	1.84	0.56
1:D:492:LEU:HD21	1:D:562:LEU:HD23	1.86	0.56
1:E:1031:ILE:HD11	1:E:1068:ILE:HD13	1.86	0.56
1:H:518:LEU:HD12	1:H:518:LEU:N	2.20	0.56
1:H:557:LYS:CE	1:H:1224:LEU:O	2.50	0.56
1:I:241:LEU:HD12	1:I:241:LEU:O	2.06	0.56
1:I:486:LEU:O	1:I:488:ARG:HG3	2.06	0.56
1:K:946:ARG:HG3	1:K:947:GLU:H	1.71	0.56
1:L:155:SER:HA	1:L:321:PRO:HD2	1.87	0.56
1:L:347:ASP:OD1	1:L:348:LYS:N	2.37	0.56
1:L:633:THR:HG21	1:L:643:TYR:CA	2.33	0.56
1:O:314:ARG:O	1:O:315:GLU:HB2	2.03	0.56
1:O:397:ASP:O	1:O:401:VAL:N	2.28	0.56
1:O:520:GLN:HA	1:O:523:PHE:HD2	1.71	0.56
1:P:603:ILE:HD11	1:P:635:VAL:HG13	1.87	0.56
1:P:1031:ILE:HD11	1:P:1068:ILE:HD13	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:PHE:CD1	1:A:88:LEU:HD21	2.41	0.56
1:B:557:LYS:CE	1:B:1224:LEU:O	2.50	0.56
1:E:371:ARG:HD3	1:E:435:ASN:HD21	1.70	0.56
1:F:350:THR:HA	1:F:353:ILE:HG22	1.88	0.56
1:G:603:ILE:HD11	1:G:635:VAL:HG13	1.87	0.56
1:H:155:SER:HA	1:H:321:PRO:HD2	1.87	0.56
1:H:520:GLN:HA	1:H:523:PHE:HD2	1.71	0.56
1:I:499:GLN:HA	1:I:502:ARG:HD2	1.86	0.56
1:J:23:PHE:CD1	1:J:88:LEU:HD21	2.41	0.56
1:J:383:THR:N	1:J:419:THR:HA	2.21	0.56
1:J:1058:ILE:HG13	1:J:1059:ASP:H	1.70	0.56
1:K:368:MET:HE1	1:K:401:VAL:HG21	1.88	0.56
1:K:492:LEU:HD21	1:K:562:LEU:HD23	1.86	0.56
1:K:633:THR:HG21	1:K:643:TYR:CA	2.33	0.56
1:L:984:LEU:HD12	1:L:1022:ALA:HB2	1.88	0.56
1:M:946:ARG:HG3	1:M:947:GLU:H	1.71	0.56
1:N:23:PHE:CD1	1:N:88:LEU:HD21	2.41	0.56
1:N:350:THR:HA	1:N:353:ILE:HG22	1.88	0.56
1:O:946:ARG:HG3	1:O:947:GLU:H	1.71	0.56
1:B:23:PHE:CD1	1:B:88:LEU:HD21	2.41	0.56
1:B:946:ARG:HG3	1:B:947:GLU:H	1.71	0.56
1:C:241:LEU:HD12	1:C:241:LEU:O	2.06	0.56
1:C:951:VAL:HA	1:C:987:VAL:HG11	1.87	0.56
1:D:946:ARG:HG3	1:D:947:GLU:H	1.71	0.56
1:E:23:PHE:CD1	1:E:88:LEU:HD21	2.41	0.56
1:E:383:THR:N	1:E:419:THR:HA	2.21	0.56
1:F:449:ILE:HB	1:F:450:PRO:HD3	1.87	0.56
1:G:508:TRP:C	1:G:606:GLY:CA	2.69	0.56
1:G:1031:ILE:HD11	1:G:1068:ILE:HD13	1.86	0.56
1:H:241:LEU:HD12	1:H:241:LEU:O	2.06	0.56
1:H:499:GLN:HA	1:H:502:ARG:HD2	1.86	0.56
1:H:946:ARG:HG3	1:H:947:GLU:H	1.71	0.56
1:I:248:GLN:CD	1:I:268:PHE:CE2	2.74	0.56
1:I:350:THR:HA	1:I:353:ILE:HG22	1.88	0.56
1:I:378:SER:HA	1:I:422:ILE:HD12	1.84	0.56
1:I:946:ARG:HG3	1:I:947:GLU:H	1.71	0.56
1:M:458:LEU:CG	1:M:587:ARG:HH21	2.19	0.56
1:M:984:LEU:HD12	1:M:1022:ALA:HB2	1.88	0.56
1:N:951:VAL:HA	1:N:987:VAL:HG11	1.87	0.56
1:O:410:LEU:HD22	1:O:413:LYS:HA	1.88	0.56
1:O:499:GLN:HA	1:O:502:ARG:HD2	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:458:LEU:CG	1:A:587:ARG:HH21	2.19	0.56
1:B:458:LEU:CD2	1:B:459:ILE:H	2.18	0.56
1:B:492:LEU:HD21	1:B:562:LEU:HD23	1.86	0.56
1:C:516:ASN:O	1:C:517:THR:HG22	2.06	0.56
1:E:1058:ILE:HG13	1:E:1059:ASP:H	1.70	0.56
1:F:410:LEU:HD22	1:F:413:LYS:HA	1.88	0.56
1:G:114:TYR:O	1:G:117:ASN:N	2.36	0.56
1:H:410:LEU:HD22	1:H:413:LYS:HA	1.88	0.56
1:I:155:SER:HA	1:I:321:PRO:HD2	1.87	0.56
1:J:368:MET:HE1	1:J:401:VAL:HG21	1.88	0.56
1:J:371:ARG:HD3	1:J:435:ASN:HD21	1.70	0.56
1:J:492:LEU:HD21	1:J:562:LEU:HD23	1.86	0.56
1:K:984:LEU:HD12	1:K:1022:ALA:HB2	1.88	0.56
1:L:516:ASN:O	1:L:517:THR:HG22	2.06	0.56
1:M:458:LEU:CD2	1:M:459:ILE:H	2.18	0.56
1:M:557:LYS:CE	1:M:1224:LEU:O	2.51	0.56
1:N:458:LEU:CG	1:N:587:ARG:HH21	2.19	0.56
1:N:1031:ILE:HD11	1:N:1068:ILE:HD13	1.86	0.56
1:O:241:LEU:HD12	1:O:241:LEU:O	2.06	0.56
1:A:124:ASN:H	1:A:303:LYS:HZ3	1.54	0.55
1:A:951:VAL:HA	1:A:987:VAL:HG11	1.87	0.55
1:B:458:LEU:CG	1:B:587:ARG:HH21	2.20	0.55
1:C:486:LEU:O	1:C:488:ARG:HG3	2.06	0.55
1:C:946:ARG:HG3	1:C:947:GLU:H	1.71	0.55
1:C:1031:ILE:HD11	1:C:1068:ILE:HD13	1.86	0.55
1:D:442:SER:O	1:D:446:HIS:CG	2.55	0.55
1:D:516:ASN:O	1:D:517:THR:HG22	2.06	0.55
1:D:633:THR:HG21	1:D:643:TYR:CA	2.33	0.55
1:D:984:LEU:HD12	1:D:1022:ALA:HB2	1.88	0.55
1:E:336:ALA:O	1:E:338:TRP:N	2.38	0.55
1:E:368:MET:HE1	1:E:401:VAL:HG21	1.88	0.55
1:E:603:ILE:HD11	1:E:635:VAL:HG13	1.87	0.55
1:F:347:ASP:OD1	1:F:348:LYS:N	2.37	0.55
1:F:951:VAL:HA	1:F:987:VAL:HG11	1.87	0.55
1:F:1058:ILE:HG13	1:F:1059:ASP:H	1.70	0.55
1:H:383:THR:N	1:H:419:THR:HA	2.21	0.55
1:H:458:LEU:CG	1:H:587:ARG:HH21	2.19	0.55
1:H:518:LEU:HD22	1:H:643:TYR:CE1	2.22	0.55
1:I:410:LEU:HD22	1:I:413:LYS:HA	1.88	0.55
1:I:951:VAL:HA	1:I:987:VAL:HG11	1.87	0.55
1:J:336:ALA:O	1:J:338:TRP:N	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:378:SER:HA	1:K:422:ILE:HD12	1.84	0.55
1:K:442:SER:O	1:K:446:HIS:CG	2.55	0.55
1:K:516:ASN:O	1:K:517:THR:HG22	2.06	0.55
1:L:486:LEU:O	1:L:488:ARG:HG3	2.06	0.55
1:M:23:PHE:CD1	1:M:88:LEU:HD21	2.41	0.55
1:M:492:LEU:HD21	1:M:562:LEU:HD23	1.86	0.55
1:O:23:PHE:CD1	1:O:88:LEU:HD21	2.41	0.55
1:O:458:LEU:CG	1:O:587:ARG:HH21	2.19	0.55
1:O:518:LEU:HD22	1:O:643:TYR:CE1	2.22	0.55
1:O:557:LYS:CE	1:O:1224:LEU:O	2.50	0.55
1:P:114:TYR:O	1:P:117:ASN:N	2.36	0.55
1:P:508:TRP:C	1:P:606:GLY:CA	2.69	0.55
1:B:368:MET:HE1	1:B:401:VAL:HG21	1.88	0.55
1:C:458:LEU:CG	1:C:587:ARG:HH21	2.19	0.55
1:C:603:ILE:HD11	1:C:635:VAL:HG13	1.87	0.55
1:D:520:GLN:HA	1:D:523:PHE:HD2	1.71	0.55
1:D:1058:ILE:HG13	1:D:1059:ASP:H	1.70	0.55
1:E:378:SER:HA	1:E:422:ILE:HD12	1.84	0.55
1:E:458:LEU:CD2	1:E:459:ILE:H	2.18	0.55
1:F:155:SER:HA	1:F:321:PRO:HD2	1.87	0.55
1:G:188:SER:N	1:G:251:APK:O2P	2.31	0.55
1:H:23:PHE:CD1	1:H:88:LEU:HD21	2.41	0.55
1:J:458:LEU:CD2	1:J:459:ILE:H	2.18	0.55
1:K:520:GLN:HA	1:K:523:PHE:HD2	1.71	0.55
1:K:1058:ILE:HG13	1:K:1059:ASP:H	1.70	0.55
1:L:336:ALA:O	1:L:338:TRP:N	2.38	0.55
1:L:458:LEU:CG	1:L:587:ARG:HH21	2.19	0.55
1:L:951:VAL:HA	1:L:987:VAL:HG11	1.87	0.55
1:L:1031:ILE:HD11	1:L:1068:ILE:HD13	1.86	0.55
1:N:520:GLN:HA	1:N:523:PHE:HD2	1.71	0.55
1:O:155:SER:HA	1:O:321:PRO:HD2	1.87	0.55
1:A:241:LEU:HD12	1:A:241:LEU:O	2.06	0.55
1:A:410:LEU:HD22	1:A:413:LYS:HA	1.88	0.55
1:A:520:GLN:HA	1:A:523:PHE:HD2	1.71	0.55
1:A:984:LEU:HD12	1:A:1022:ALA:HB2	1.88	0.55
1:B:155:SER:HA	1:B:321:PRO:HD2	1.87	0.55
1:C:368:MET:HE1	1:C:401:VAL:HG21	1.89	0.55
1:C:449:ILE:HB	1:C:450:PRO:HD3	1.87	0.55
1:C:518:LEU:HD22	1:C:643:TYR:CE1	2.22	0.55
1:C:520:GLN:HA	1:C:523:PHE:HD2	1.71	0.55
1:D:563:ARG:NH1	1:D:591:THR:O	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:492:LEU:HD21	1:E:562:LEU:HD23	1.86	0.55
1:F:194:GLU:OE2	1:G:216:ASN:ND2	2.40	0.55
1:H:563:ARG:NH1	1:H:591:THR:O	2.40	0.55
1:I:23:PHE:CD1	1:I:88:LEU:HD21	2.41	0.55
1:I:1058:ILE:HG13	1:I:1059:ASP:H	1.70	0.55
1:J:603:ILE:HD11	1:J:635:VAL:HG13	1.87	0.55
1:L:600:ARG:NE	1:L:1229:GLU:OE1	2.37	0.55
1:L:603:ILE:HD11	1:L:635:VAL:HG13	1.87	0.55
1:M:124:ASN:H	1:M:303:LYS:HZ3	1.55	0.55
1:N:241:LEU:O	1:N:241:LEU:HD12	2.06	0.55
1:N:410:LEU:HD22	1:N:413:LYS:HA	1.88	0.55
1:O:383:THR:N	1:O:419:THR:HA	2.21	0.55
1:P:188:SER:N	1:P:251:APK:O2P	2.31	0.55
1:P:241:LEU:HD12	1:P:241:LEU:O	2.06	0.55
1:A:557:LYS:CE	1:A:1224:LEU:O	2.50	0.55
1:B:447:TYR:O	1:B:450:PRO:HD2	2.07	0.55
1:B:486:LEU:O	1:B:488:ARG:HG3	2.06	0.55
1:C:447:TYR:O	1:C:450:PRO:HD2	2.07	0.55
1:C:563:ARG:NH1	1:C:591:THR:O	2.40	0.55
1:F:23:PHE:CD1	1:F:88:LEU:HD21	2.41	0.55
1:F:368:MET:HE1	1:F:401:VAL:HG21	1.88	0.55
1:G:241:LEU:HD12	1:G:241:LEU:O	2.06	0.55
1:G:317:LEU:CD2	1:G:341:TRP:CH2	2.90	0.55
1:G:383:THR:N	1:G:419:THR:HA	2.21	0.55
1:H:317:LEU:CD2	1:H:341:TRP:CH2	2.90	0.55
1:I:368:MET:HE1	1:I:401:VAL:HG21	1.88	0.55
1:K:313:PRO:HA	1:K:338:TRP:HH2	1.63	0.55
1:K:563:ARG:NH1	1:K:591:THR:O	2.40	0.55
1:L:368:MET:HE1	1:L:401:VAL:HG21	1.89	0.55
1:L:447:TYR:O	1:L:450:PRO:HD2	2.07	0.55
1:L:520:GLN:HA	1:L:523:PHE:HD2	1.71	0.55
1:M:155:SER:HA	1:M:321:PRO:HD2	1.87	0.55
1:M:486:LEU:O	1:M:488:ARG:HG3	2.06	0.55
1:N:600:ARG:NE	1:N:1229:GLU:OE1	2.37	0.55
1:N:984:LEU:HD12	1:N:1022:ALA:HB2	1.88	0.55
1:O:317:LEU:CD2	1:O:341:TRP:CH2	2.90	0.55
1:O:563:ARG:NH1	1:O:591:THR:O	2.40	0.55
1:P:317:LEU:CD2	1:P:341:TRP:CH2	2.90	0.55
1:P:383:THR:N	1:P:419:THR:HA	2.21	0.55
1:A:114:TYR:O	1:A:117:ASN:N	2.36	0.55
1:A:301:LEU:HD23	1:A:313:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:383:THR:N	1:A:419:THR:HA	2.21	0.55
1:B:241:LEU:HD12	1:B:241:LEU:O	2.06	0.55
1:C:541:ALA:O	1:C:544:ASP:N	2.30	0.55
1:D:313:PRO:HA	1:D:338:TRP:HH2	1.63	0.55
1:D:347:ASP:OD1	1:D:348:LYS:N	2.37	0.55
1:D:371:ARG:HD3	1:D:435:ASN:HD21	1.70	0.55
1:F:317:LEU:CD2	1:F:341:TRP:CH2	2.90	0.55
1:G:458:LEU:CG	1:G:587:ARG:HH21	2.19	0.55
1:H:114:TYR:O	1:H:117:ASN:N	2.36	0.55
1:H:130:PRO:HA	1:H:290:MET:HE1	1.87	0.55
1:I:347:ASP:OD1	1:I:348:LYS:N	2.37	0.55
1:I:510:ALA:O	1:I:511:SER:HB2	2.07	0.55
1:J:378:SER:HA	1:J:422:ILE:HD12	1.84	0.55
1:K:23:PHE:CD1	1:K:88:LEU:HD21	2.41	0.55
1:L:563:ARG:NH1	1:L:591:THR:O	2.40	0.55
1:L:946:ARG:HG3	1:L:947:GLU:H	1.71	0.55
1:M:301:LEU:HD23	1:M:313:PRO:HD2	1.89	0.55
1:M:368:MET:HE1	1:M:401:VAL:HG21	1.88	0.55
1:M:447:TYR:O	1:M:450:PRO:HD2	2.07	0.55
1:N:114:TYR:O	1:N:117:ASN:N	2.36	0.55
1:N:557:LYS:HZ2	1:N:1223:GLN:HG3	1.70	0.55
1:P:563:ARG:NH1	1:P:591:THR:O	2.40	0.55
1:A:447:TYR:O	1:A:450:PRO:HD2	2.07	0.55
1:A:563:ARG:NH1	1:A:591:THR:O	2.40	0.55
1:A:600:ARG:NE	1:A:1229:GLU:OE1	2.37	0.55
1:B:301:LEU:HD23	1:B:313:PRO:HD2	1.89	0.55
1:C:458:LEU:CD2	1:C:459:ILE:H	2.18	0.55
1:D:557:LYS:CE	1:D:1224:LEU:O	2.50	0.55
1:E:984:LEU:HD12	1:E:1022:ALA:HB2	1.88	0.55
1:F:516:ASN:O	1:F:517:THR:HG22	2.06	0.55
1:G:563:ARG:NH1	1:G:591:THR:O	2.40	0.55
1:I:317:LEU:CD2	1:I:341:TRP:CH2	2.90	0.55
1:J:124:ASN:H	1:J:303:LYS:HZ3	1.53	0.55
1:J:510:ALA:O	1:J:511:SER:HB2	2.07	0.55
1:J:984:LEU:HD12	1:J:1022:ALA:HB2	1.88	0.55
1:K:347:ASP:OD1	1:K:348:LYS:N	2.37	0.55
1:K:371:ARG:HD3	1:K:435:ASN:HD21	1.70	0.55
1:L:371:ARG:HD3	1:L:435:ASN:HD21	1.70	0.55
1:L:458:LEU:CD2	1:L:459:ILE:H	2.18	0.55
1:M:241:LEU:HD12	1:M:241:LEU:O	2.06	0.55
1:N:301:LEU:HD23	1:N:313:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:317:LEU:CD2	1:N:341:TRP:CH2	2.90	0.55
1:N:563:ARG:NH1	1:N:591:THR:O	2.40	0.55
1:O:114:TYR:O	1:O:117:ASN:N	2.36	0.55
1:P:458:LEU:CG	1:P:587:ARG:HH21	2.19	0.55
1:P:518:LEU:HD12	1:P:518:LEU:N	2.20	0.55
1:P:946:ARG:HG3	1:P:947:GLU:H	1.71	0.55
1:A:317:LEU:CD2	1:A:341:TRP:CH2	2.90	0.55
1:A:412:GLU:OE1	1:A:414:GLN:N	2.40	0.55
1:B:350:THR:HA	1:B:353:ILE:HG22	1.88	0.55
1:B:412:GLU:OE1	1:B:414:GLN:N	2.40	0.55
1:C:371:ARG:HD3	1:C:435:ASN:HD21	1.70	0.55
1:E:124:ASN:H	1:E:303:LYS:HZ3	1.53	0.55
1:E:350:THR:HA	1:E:353:ILE:HG22	1.88	0.55
1:E:510:ALA:O	1:E:511:SER:HB2	2.07	0.55
1:F:317:LEU:HD22	1:F:341:TRP:CH2	2.42	0.55
1:F:412:GLU:OE1	1:F:414:GLN:N	2.40	0.55
1:F:548:LYS:HZ2	1:F:601:GLN:H	1.53	0.55
1:G:518:LEU:HD12	1:G:518:LEU:N	2.20	0.55
1:G:946:ARG:HG3	1:G:947:GLU:H	1.71	0.55
1:I:317:LEU:HD22	1:I:341:TRP:CH2	2.42	0.55
1:I:516:ASN:O	1:I:517:THR:HG22	2.06	0.55
1:J:346:CYS:O	1:J:350:THR:N	2.25	0.55
1:J:347:ASP:OD1	1:J:348:LYS:N	2.37	0.55
1:J:412:GLU:OE1	1:J:414:GLN:N	2.40	0.55
1:J:516:ASN:O	1:J:517:THR:HG22	2.06	0.55
1:J:563:ARG:NH1	1:J:591:THR:O	2.40	0.55
1:K:518:LEU:HD12	1:K:518:LEU:N	2.20	0.55
1:M:410:LEU:HD22	1:M:413:LYS:HA	1.88	0.55
1:M:412:GLU:OE1	1:M:414:GLN:N	2.40	0.55
1:N:383:THR:N	1:N:419:THR:HA	2.21	0.55
1:N:412:GLU:OE1	1:N:414:GLN:N	2.40	0.55
1:N:557:LYS:CE	1:N:1224:LEU:O	2.51	0.55
1:O:487:PHE:CD2	1:O:489:MET:HG3	2.42	0.55
1:B:410:LEU:HD22	1:B:413:LYS:HA	1.88	0.55
1:B:487:PHE:CD2	1:B:489:MET:HG3	2.42	0.55
1:B:510:ALA:O	1:B:511:SER:HB2	2.07	0.55
1:B:563:ARG:NH1	1:B:591:THR:O	2.40	0.55
1:C:301:LEU:HD23	1:C:313:PRO:HD2	1.89	0.55
1:D:23:PHE:CD1	1:D:88:LEU:HD21	2.41	0.55
1:D:368:MET:HE1	1:D:401:VAL:HG21	1.89	0.55
1:D:458:LEU:CG	1:D:587:ARG:HH21	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:458:LEU:CD2	1:D:459:ILE:H	2.18	0.55
1:E:347:ASP:OD1	1:E:348:LYS:N	2.37	0.55
1:E:412:GLU:OE1	1:E:414:GLN:N	2.40	0.55
1:E:516:ASN:O	1:E:517:THR:HG22	2.06	0.55
1:E:563:ARG:NH1	1:E:591:THR:O	2.40	0.55
1:F:510:ALA:O	1:F:511:SER:HB2	2.07	0.55
1:F:984:LEU:HD12	1:F:1022:ALA:HB2	1.88	0.55
1:H:487:PHE:CD2	1:H:489:MET:HG3	2.42	0.55
1:I:412:GLU:OE1	1:I:414:GLN:N	2.40	0.55
1:J:350:THR:HA	1:J:353:ILE:HG22	1.88	0.55
1:K:447:TYR:O	1:K:450:PRO:HD2	2.07	0.55
1:K:458:LEU:CG	1:K:587:ARG:HH21	2.20	0.55
1:L:767:GLY:HA2	1:L:783:THR:HG22	1.89	0.55
1:M:350:THR:HA	1:M:353:ILE:HG22	1.88	0.55
1:M:487:PHE:CD2	1:M:489:MET:HG3	2.42	0.55
1:M:563:ARG:NH1	1:M:591:THR:O	2.40	0.55
1:N:447:TYR:O	1:N:450:PRO:HD2	2.07	0.55
1:O:508:TRP:C	1:O:606:GLY:CA	2.69	0.55
1:P:23:PHE:CD1	1:P:88:LEU:HD21	2.41	0.55
1:B:541:ALA:O	1:B:544:ASP:N	2.30	0.55
1:B:600:ARG:NE	1:B:1229:GLU:OE1	2.37	0.55
1:C:23:PHE:CD1	1:C:88:LEU:HD21	2.41	0.55
1:C:350:THR:HA	1:C:353:ILE:HG22	1.88	0.55
1:C:412:GLU:OE1	1:C:414:GLN:N	2.40	0.55
1:C:600:ARG:NE	1:C:1229:GLU:OE1	2.37	0.55
1:E:317:LEU:CD2	1:E:341:TRP:CH2	2.90	0.55
1:E:397:ASP:O	1:E:401:VAL:N	2.28	0.55
1:E:447:TYR:O	1:E:450:PRO:HD2	2.07	0.55
1:F:97:ARG:NH2	1:O:97:ARG:NH2	2.55	0.55
1:F:538:LEU:CD1	1:F:571:GLU:HG2	2.37	0.55
1:G:23:PHE:CD1	1:G:88:LEU:HD21	2.41	0.55
1:G:447:TYR:O	1:G:450:PRO:HD2	2.07	0.55
1:H:301:LEU:HD23	1:H:313:PRO:HD2	1.89	0.55
1:H:412:GLU:OE1	1:H:414:GLN:N	2.40	0.55
1:H:447:TYR:O	1:H:450:PRO:HD2	2.07	0.55
1:I:984:LEU:HD12	1:I:1022:ALA:HB2	1.88	0.55
1:J:317:LEU:CD2	1:J:341:TRP:CH2	2.90	0.55
1:J:365:TYR:O	1:J:368:MET:N	2.21	0.55
1:K:353:ILE:HD11	1:K:427:LEU:HA	1.89	0.55
1:K:410:LEU:HD22	1:K:413:LYS:HA	1.88	0.55
1:K:458:LEU:CD2	1:K:459:ILE:H	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:557:LYS:CE	1:K:1224:LEU:O	2.50	0.55
1:L:23:PHE:CD1	1:L:88:LEU:HD21	2.41	0.55
1:L:449:ILE:HB	1:L:450:PRO:HD3	1.87	0.55
1:M:317:LEU:CD2	1:M:341:TRP:CH2	2.90	0.55
1:M:510:ALA:O	1:M:511:SER:HB2	2.07	0.55
1:M:541:ALA:O	1:M:544:ASP:N	2.30	0.55
1:M:600:ARG:NE	1:M:1229:GLU:OE1	2.37	0.55
1:O:447:TYR:O	1:O:450:PRO:HD2	2.07	0.55
1:O:767:GLY:HA2	1:O:783:THR:HG22	1.89	0.55
1:P:447:TYR:O	1:P:450:PRO:HD2	2.07	0.55
1:B:124:ASN:H	1:B:303:LYS:HZ3	1.55	0.55
1:B:317:LEU:CD2	1:B:341:TRP:CH2	2.90	0.55
1:B:516:ASN:O	1:B:517:THR:HG22	2.06	0.55
1:B:767:GLY:HA2	1:B:783:THR:HG22	1.89	0.55
1:C:487:PHE:CD2	1:C:489:MET:HG3	2.42	0.55
1:C:767:GLY:HA2	1:C:783:THR:HG22	1.90	0.55
1:D:353:ILE:HD11	1:D:427:LEU:HA	1.89	0.55
1:D:447:TYR:O	1:D:450:PRO:HD2	2.07	0.55
1:D:487:PHE:CD2	1:D:489:MET:HG3	2.42	0.55
1:D:518:LEU:HD12	1:D:518:LEU:N	2.20	0.55
1:E:353:ILE:HD11	1:E:427:LEU:HA	1.89	0.55
1:E:951:VAL:HA	1:E:987:VAL:HG11	1.87	0.55
1:F:508:TRP:C	1:F:606:GLY:CA	2.69	0.55
1:H:508:TRP:C	1:H:606:GLY:CA	2.70	0.55
1:H:767:GLY:HA2	1:H:783:THR:HG22	1.89	0.55
1:I:442:SER:O	1:I:446:HIS:CG	2.55	0.55
1:I:508:TRP:C	1:I:606:GLY:CA	2.69	0.55
1:J:353:ILE:HD11	1:J:427:LEU:HA	1.89	0.55
1:J:951:VAL:HA	1:J:987:VAL:HG11	1.87	0.55
1:L:317:LEU:HD22	1:L:341:TRP:CH2	2.42	0.55
1:L:350:THR:HA	1:L:353:ILE:HG22	1.88	0.55
1:L:487:PHE:CD2	1:L:489:MET:HG3	2.42	0.55
1:N:353:ILE:HD11	1:N:427:LEU:HA	1.89	0.55
1:N:487:PHE:CD2	1:N:489:MET:HG3	2.42	0.55
1:O:216:ASN:ND2	1:P:194:GLU:OE2	2.40	0.55
1:O:412:GLU:OE1	1:O:414:GLN:N	2.40	0.55
1:O:984:LEU:HD12	1:O:1022:ALA:HB2	1.88	0.55
1:A:353:ILE:HD11	1:A:427:LEU:HA	1.89	0.54
1:A:487:PHE:CD2	1:A:489:MET:HG3	2.42	0.54
1:A:767:GLY:HA2	1:A:783:THR:HG22	1.89	0.54
1:B:150:ASP:OD1	1:B:151:GLY:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:410:LEU:HD22	1:C:413:LYS:HA	1.88	0.54
1:C:538:LEU:CG	1:C:571:GLU:HG2	2.37	0.54
1:D:317:LEU:C	1:D:318:THR:HG1	1.96	0.54
1:D:410:LEU:HD22	1:D:413:LYS:HA	1.88	0.54
1:E:538:LEU:CG	1:E:571:GLU:HG2	2.37	0.54
1:E:946:ARG:HG3	1:E:947:GLU:H	1.71	0.54
1:F:150:ASP:OD1	1:F:151:GLY:N	2.40	0.54
1:F:442:SER:O	1:F:446:HIS:CG	2.55	0.54
1:F:557:LYS:CE	1:F:1224:LEU:O	2.50	0.54
1:G:487:PHE:CD2	1:G:489:MET:HG3	2.42	0.54
1:G:538:LEU:CG	1:G:571:GLU:HG2	2.37	0.54
1:G:951:VAL:HA	1:G:987:VAL:HG11	1.87	0.54
1:I:388:LEU:HB2	1:I:446:HIS:CE1	2.43	0.54
1:I:538:LEU:CD1	1:I:571:GLU:HG2	2.38	0.54
1:I:563:ARG:NH1	1:I:591:THR:O	2.40	0.54
1:J:447:TYR:O	1:J:450:PRO:HD2	2.07	0.54
1:J:538:LEU:CG	1:J:571:GLU:HG2	2.37	0.54
1:K:487:PHE:CD2	1:K:489:MET:HG3	2.42	0.54
1:K:538:LEU:CD1	1:K:571:GLU:HG2	2.37	0.54
1:L:301:LEU:HD23	1:L:313:PRO:HD2	1.89	0.54
1:L:538:LEU:CD1	1:L:571:GLU:HG2	2.38	0.54
1:M:150:ASP:OD1	1:M:151:GLY:N	2.41	0.54
1:M:516:ASN:O	1:M:517:THR:HG22	2.06	0.54
1:M:767:GLY:HA2	1:M:783:THR:HG22	1.89	0.54
1:N:767:GLY:HA2	1:N:783:THR:HG22	1.89	0.54
1:P:150:ASP:OD1	1:P:151:GLY:N	2.40	0.54
1:P:487:PHE:CD2	1:P:489:MET:HG3	2.42	0.54
1:P:951:VAL:HA	1:P:987:VAL:HG11	1.87	0.54
1:A:516:ASN:O	1:A:517:THR:HG22	2.06	0.54
1:A:946:ARG:HG3	1:A:947:GLU:H	1.71	0.54
1:C:317:LEU:CD2	1:C:341:TRP:CH2	2.90	0.54
1:C:538:LEU:CD1	1:C:571:GLU:HG2	2.38	0.54
1:D:114:TYR:O	1:D:117:ASN:N	2.36	0.54
1:D:317:LEU:CD2	1:D:341:TRP:CH2	2.90	0.54
1:D:538:LEU:CD1	1:D:571:GLU:HG2	2.38	0.54
1:E:365:TYR:O	1:E:368:MET:N	2.21	0.54
1:E:397:ASP:HA	1:E:400:VAL:HB	1.89	0.54
1:E:1195:VAL:HG11	1:E:1241:PHE:HZ	1.72	0.54
1:F:458:LEU:CG	1:F:587:ARG:HH21	2.19	0.54
1:G:388:LEU:HB2	1:G:446:HIS:CE1	2.43	0.54
1:G:397:ASP:HA	1:G:400:VAL:HB	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:510:ALA:O	1:G:511:SER:HB2	2.07	0.54
1:H:317:LEU:HD22	1:H:341:TRP:CH2	2.42	0.54
1:H:388:LEU:HB2	1:H:446:HIS:CE1	2.43	0.54
1:H:397:ASP:HA	1:H:400:VAL:HB	1.89	0.54
1:H:984:LEU:HD12	1:H:1022:ALA:HB2	1.88	0.54
1:J:317:LEU:HD22	1:J:341:TRP:CH2	2.42	0.54
1:K:317:LEU:CD2	1:K:341:TRP:CH2	2.90	0.54
1:K:317:LEU:C	1:K:318:THR:HG1	1.96	0.54
1:L:317:LEU:CD2	1:L:341:TRP:CH2	2.90	0.54
1:L:353:ILE:HD11	1:L:427:LEU:HA	1.89	0.54
1:L:412:GLU:OE1	1:L:414:GLN:N	2.40	0.54
1:N:516:ASN:O	1:N:517:THR:HG22	2.06	0.54
1:O:301:LEU:HD23	1:O:313:PRO:HD2	1.89	0.54
1:O:317:LEU:HD22	1:O:341:TRP:CH2	2.42	0.54
1:O:397:ASP:HA	1:O:400:VAL:HB	1.89	0.54
1:P:120:PHE:HE1	1:P:159:TRP:CE3	2.26	0.54
1:P:124:ASN:H	1:P:303:LYS:HZ3	1.55	0.54
1:P:388:LEU:HB2	1:P:446:HIS:CE1	2.43	0.54
1:P:397:ASP:HA	1:P:400:VAL:HB	1.89	0.54
1:P:538:LEU:CG	1:P:571:GLU:HG2	2.37	0.54
1:P:984:LEU:HD12	1:P:1022:ALA:HB2	1.88	0.54
1:C:91:PRO:O	1:C:94:THR:OG1	2.21	0.54
1:C:317:LEU:HD22	1:C:341:TRP:CH2	2.42	0.54
1:C:353:ILE:HD11	1:C:427:LEU:HA	1.90	0.54
1:C:368:MET:HA	1:C:390:TRP:HE1	1.73	0.54
1:D:100:SER:O	1:D:103:THR:N	2.41	0.54
1:D:350:THR:HA	1:D:353:ILE:HG22	1.88	0.54
1:E:458:LEU:CG	1:E:587:ARG:HH21	2.19	0.54
1:F:563:ARG:NH1	1:F:591:THR:O	2.40	0.54
1:G:120:PHE:HE1	1:G:159:TRP:CE3	2.26	0.54
1:G:150:ASP:OD1	1:G:151:GLY:N	2.41	0.54
1:G:412:GLU:OE1	1:G:414:GLN:N	2.40	0.54
1:G:984:LEU:HD12	1:G:1022:ALA:HB2	1.88	0.54
1:I:383:THR:N	1:I:419:THR:HA	2.21	0.54
1:J:397:ASP:HA	1:J:400:VAL:HB	1.89	0.54
1:J:1195:VAL:HG11	1:J:1241:PHE:HZ	1.73	0.54
1:K:557:LYS:CB	1:K:1226:TYR:CE1	2.87	0.54
1:L:383:THR:N	1:L:419:THR:HA	2.21	0.54
1:L:553:LEU:HB3	1:L:556:SER:HG	1.72	0.54
1:M:317:LEU:HD22	1:M:341:TRP:CH2	2.42	0.54
1:M:353:ILE:HD11	1:M:427:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:487:PHE:HD2	1:M:489:MET:HG3	1.72	0.54
1:M:538:LEU:CD1	1:M:571:GLU:HG2	2.38	0.54
1:O:487:PHE:HD2	1:O:489:MET:HG3	1.72	0.54
1:P:100:SER:O	1:P:103:THR:N	2.41	0.54
1:P:368:MET:HE1	1:P:401:VAL:HG21	1.88	0.54
1:P:412:GLU:OE1	1:P:414:GLN:N	2.40	0.54
1:A:368:MET:HE1	1:A:401:VAL:HG21	1.88	0.54
1:A:389:ILE:CD1	1:A:446:HIS:CD2	2.91	0.54
1:A:538:LEU:CD1	1:A:571:GLU:HG2	2.38	0.54
1:B:317:LEU:HD22	1:B:341:TRP:CH2	2.42	0.54
1:B:353:ILE:HD11	1:B:427:LEU:HA	1.89	0.54
1:B:487:PHE:HD2	1:B:489:MET:HG3	1.72	0.54
1:B:538:LEU:CD1	1:B:571:GLU:HG2	2.38	0.54
1:C:100:SER:O	1:C:103:THR:N	2.41	0.54
1:C:130:PRO:HA	1:C:290:MET:HE1	1.90	0.54
1:C:383:THR:N	1:C:419:THR:HA	2.21	0.54
1:D:120:PHE:HE1	1:D:159:TRP:CE3	2.26	0.54
1:D:510:ALA:O	1:D:511:SER:HB2	2.07	0.54
1:D:557:LYS:CB	1:D:1226:TYR:CE1	2.87	0.54
1:D:1195:VAL:HG11	1:D:1241:PHE:HZ	1.73	0.54
1:E:317:LEU:HD22	1:E:341:TRP:CH2	2.42	0.54
1:F:388:LEU:HB2	1:F:446:HIS:CE1	2.43	0.54
1:F:538:LEU:CG	1:F:571:GLU:HG2	2.37	0.54
1:G:100:SER:O	1:G:103:THR:N	2.41	0.54
1:G:368:MET:HE1	1:G:401:VAL:HG21	1.89	0.54
1:G:550:GLU:O	1:G:552:ASN:ND2	2.41	0.54
1:H:353:ILE:HD11	1:H:427:LEU:HA	1.89	0.54
1:H:487:PHE:HD2	1:H:489:MET:HG3	1.72	0.54
1:I:100:SER:O	1:I:103:THR:N	2.41	0.54
1:I:150:ASP:OD1	1:I:151:GLY:N	2.40	0.54
1:I:458:LEU:CG	1:I:587:ARG:HH21	2.19	0.54
1:J:946:ARG:HG3	1:J:947:GLU:H	1.71	0.54
1:K:100:SER:O	1:K:103:THR:N	2.41	0.54
1:K:350:THR:HA	1:K:353:ILE:HG22	1.88	0.54
1:K:412:GLU:OE1	1:K:414:GLN:N	2.40	0.54
1:K:510:ALA:O	1:K:511:SER:HB2	2.07	0.54
1:L:130:PRO:HA	1:L:290:MET:HE1	1.90	0.54
1:L:150:ASP:OD1	1:L:151:GLY:N	2.40	0.54
1:N:368:MET:HE1	1:N:401:VAL:HG21	1.88	0.54
1:N:389:ILE:CD1	1:N:446:HIS:CD2	2.91	0.54
1:N:538:LEU:CD1	1:N:571:GLU:HG2	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:301:LEU:HD23	1:P:313:PRO:HD2	1.89	0.54
1:P:510:ALA:O	1:P:511:SER:HB2	2.07	0.54
1:P:550:GLU:O	1:P:552:ASN:ND2	2.41	0.54
1:P:767:GLY:HA2	1:P:783:THR:HG22	1.89	0.54
1:A:388:LEU:HB2	1:A:446:HIS:CE1	2.43	0.54
1:D:317:LEU:HD22	1:D:341:TRP:CH2	2.42	0.54
1:D:767:GLY:HA2	1:D:783:THR:HG22	1.89	0.54
1:F:100:SER:O	1:F:103:THR:N	2.41	0.54
1:F:550:GLU:O	1:F:552:ASN:ND2	2.41	0.54
1:G:301:LEU:HD23	1:G:313:PRO:HD2	1.89	0.54
1:G:767:GLY:HA2	1:G:783:THR:HG22	1.89	0.54
1:H:100:SER:O	1:H:103:THR:N	2.41	0.54
1:H:301:LEU:CD2	1:H:313:PRO:CD	2.86	0.54
1:H:538:LEU:CD1	1:H:571:GLU:HG2	2.38	0.54
1:H:541:ALA:O	1:H:544:ASP:N	2.30	0.54
1:H:550:GLU:O	1:H:552:ASN:ND2	2.41	0.54
1:I:124:ASN:H	1:I:303:LYS:HZ3	1.56	0.54
1:I:353:ILE:HD11	1:I:427:LEU:HA	1.89	0.54
1:I:550:GLU:O	1:I:552:ASN:ND2	2.41	0.54
1:J:458:LEU:CG	1:J:587:ARG:HH21	2.19	0.54
1:K:538:LEU:CG	1:K:571:GLU:HG2	2.37	0.54
1:K:1195:VAL:HG11	1:K:1241:PHE:HZ	1.73	0.54
1:L:100:SER:O	1:L:103:THR:N	2.41	0.54
1:L:368:MET:HA	1:L:390:TRP:HE1	1.73	0.54
1:L:538:LEU:CG	1:L:571:GLU:HG2	2.37	0.54
1:M:368:MET:HA	1:M:390:TRP:HE1	1.73	0.54
1:N:388:LEU:HB2	1:N:446:HIS:CE1	2.43	0.54
1:N:946:ARG:HG3	1:N:947:GLU:H	1.71	0.54
1:O:100:SER:O	1:O:103:THR:N	2.41	0.54
1:O:353:ILE:HD11	1:O:427:LEU:HA	1.89	0.54
1:O:388:LEU:HB2	1:O:446:HIS:CE1	2.43	0.54
1:O:516:ASN:O	1:O:517:THR:HG22	2.06	0.54
1:O:538:LEU:CD1	1:O:571:GLU:HG2	2.38	0.54
1:O:541:ALA:O	1:O:544:ASP:N	2.30	0.54
1:O:550:GLU:O	1:O:552:ASN:ND2	2.41	0.54
1:P:410:LEU:HD22	1:P:413:LYS:HA	1.88	0.54
1:P:516:ASN:O	1:P:517:THR:HG22	2.06	0.54
1:A:120:PHE:HE1	1:A:159:TRP:CE3	2.26	0.54
1:A:150:ASP:OD1	1:A:151:GLY:N	2.40	0.54
1:A:541:ALA:O	1:A:544:ASP:N	2.30	0.54
1:B:368:MET:HA	1:B:390:TRP:HE1	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:386:LEU:HD12	1:B:420:ILE:HD13	1.90	0.54
1:C:389:ILE:CD1	1:C:446:HIS:CD2	2.91	0.54
1:D:412:GLU:OE1	1:D:414:GLN:N	2.40	0.54
1:E:120:PHE:HE1	1:E:159:TRP:CE3	2.26	0.54
1:F:124:ASN:H	1:F:303:LYS:HZ3	1.56	0.54
1:F:156:GLY:HA2	2:F:1501:DTP:O2A	2.08	0.54
1:F:353:ILE:HD11	1:F:427:LEU:HA	1.89	0.54
1:F:633:THR:HG21	1:F:643:TYR:CA	2.33	0.54
1:G:119:VAL:HA	1:G:159:TRP:CH2	2.43	0.54
1:G:301:LEU:CD2	1:G:313:PRO:CD	2.86	0.54
1:G:317:LEU:HD22	1:G:341:TRP:CH2	2.42	0.54
1:G:516:ASN:O	1:G:517:THR:HG22	2.06	0.54
1:H:516:ASN:O	1:H:517:THR:HG22	2.06	0.54
1:I:557:LYS:CE	1:I:1224:LEU:O	2.50	0.54
1:J:119:VAL:HA	1:J:159:TRP:CH2	2.43	0.54
1:J:120:PHE:HE1	1:J:159:TRP:CE3	2.26	0.54
1:J:397:ASP:O	1:J:401:VAL:N	2.28	0.54
1:K:120:PHE:HE1	1:K:159:TRP:CE3	2.26	0.54
1:K:767:GLY:HA2	1:K:783:THR:HG22	1.89	0.54
1:L:410:LEU:HD22	1:L:413:LYS:HA	1.88	0.54
1:M:386:LEU:HD12	1:M:420:ILE:HD13	1.90	0.54
1:M:538:LEU:CG	1:M:571:GLU:HG2	2.37	0.54
1:N:120:PHE:HE1	1:N:159:TRP:CE3	2.26	0.54
1:O:301:LEU:CD2	1:O:313:PRO:CD	2.86	0.54
1:P:301:LEU:CD2	1:P:313:PRO:CD	2.86	0.54
1:A:168:TYR:O	1:A:171:GLN:N	2.41	0.54
1:A:538:LEU:CG	1:A:571:GLU:HG2	2.37	0.54
1:B:538:LEU:CG	1:B:571:GLU:HG2	2.37	0.54
1:C:150:ASP:OD1	1:C:151:GLY:N	2.41	0.54
1:C:301:LEU:CD2	1:C:313:PRO:CD	2.86	0.54
1:C:1182:GLU:O	1:C:1183:GLU:HG3	2.08	0.54
1:D:168:TYR:O	1:D:171:GLN:N	2.41	0.54
1:D:383:THR:N	1:D:419:THR:HA	2.21	0.54
1:D:538:LEU:CG	1:D:571:GLU:HG2	2.37	0.54
1:H:168:TYR:O	1:H:171:GLN:N	2.41	0.54
1:I:156:GLY:HA2	2:I:1501:DTP:O1A	2.08	0.54
1:I:1195:VAL:HG11	1:I:1241:PHE:HZ	1.73	0.54
1:J:168:TYR:O	1:J:171:GLN:N	2.41	0.54
1:K:114:TYR:O	1:K:117:ASN:N	2.36	0.54
1:K:168:TYR:O	1:K:171:GLN:N	2.41	0.54
1:K:317:LEU:HD22	1:K:341:TRP:CH2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:389:ILE:CD1	1:L:446:HIS:CD2	2.91	0.54
1:N:100:SER:O	1:N:103:THR:N	2.41	0.54
1:N:150:ASP:OD1	1:N:151:GLY:N	2.40	0.54
1:N:168:TYR:O	1:N:171:GLN:N	2.41	0.54
1:O:168:TYR:O	1:O:171:GLN:N	2.41	0.54
1:O:368:MET:HE1	1:O:401:VAL:HG21	1.88	0.54
1:A:100:SER:O	1:A:103:THR:N	2.41	0.54
1:A:317:LEU:HD22	1:A:341:TRP:CH2	2.42	0.54
1:A:388:LEU:CB	1:A:446:HIS:CE1	2.91	0.54
1:A:442:SER:O	1:A:446:HIS:CG	2.55	0.54
1:B:120:PHE:HE1	1:B:159:TRP:CE3	2.26	0.54
1:C:124:ASN:H	1:C:303:LYS:HZ3	1.56	0.54
1:E:119:VAL:HA	1:E:159:TRP:CH2	2.43	0.54
1:E:388:LEU:HB2	1:E:446:HIS:CE1	2.43	0.54
1:E:487:PHE:CD2	1:E:489:MET:HG3	2.42	0.54
1:F:383:THR:N	1:F:419:THR:HA	2.21	0.54
1:F:397:ASP:HA	1:F:400:VAL:HB	1.89	0.54
1:F:447:TYR:O	1:F:450:PRO:HD2	2.07	0.54
1:G:410:LEU:HD22	1:G:413:LYS:HA	1.88	0.54
1:H:156:GLY:HA2	2:H:1501:DTP:O2A	2.08	0.54
1:H:389:ILE:CD1	1:H:446:HIS:CD2	2.91	0.54
1:I:447:TYR:O	1:I:450:PRO:HD2	2.07	0.54
1:I:538:LEU:CG	1:I:571:GLU:HG2	2.37	0.54
1:I:633:THR:HG21	1:I:643:TYR:CA	2.33	0.54
1:L:120:PHE:HE1	1:L:159:TRP:CE3	2.26	0.54
1:L:301:LEU:CD2	1:L:313:PRO:CD	2.86	0.54
1:L:518:LEU:HD22	1:L:643:TYR:CE1	2.22	0.54
1:L:541:ALA:O	1:L:544:ASP:N	2.30	0.54
1:M:120:PHE:HE1	1:M:159:TRP:CE3	2.26	0.54
1:N:301:LEU:CD2	1:N:313:PRO:CD	2.86	0.54
1:N:317:LEU:HD22	1:N:341:TRP:CH2	2.42	0.54
1:N:388:LEU:CB	1:N:446:HIS:CE1	2.91	0.54
1:N:442:SER:O	1:N:446:HIS:CG	2.55	0.54
1:N:538:LEU:CG	1:N:571:GLU:HG2	2.37	0.54
1:N:541:ALA:O	1:N:544:ASP:N	2.30	0.54
1:P:119:VAL:HA	1:P:159:TRP:CH2	2.43	0.54
1:P:317:LEU:HD22	1:P:341:TRP:CH2	2.42	0.54
1:A:106:TYR:O	1:A:109:GLN:N	2.41	0.54
1:A:122:LYS:HG3	1:B:276:SER:OG	2.07	0.54
1:A:301:LEU:CD2	1:A:313:PRO:CD	2.86	0.54
1:B:168:TYR:O	1:B:171:GLN:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:343:HIS:O	1:B:344:VAL:C	2.46	0.54
1:B:388:LEU:HB2	1:B:446:HIS:CE1	2.43	0.54
1:C:120:PHE:HE1	1:C:159:TRP:CE3	2.26	0.54
1:C:343:HIS:O	1:C:344:VAL:C	2.46	0.54
1:C:510:ALA:O	1:C:511:SER:HB2	2.07	0.54
1:C:550:GLU:O	1:C:552:ASN:ND2	2.41	0.54
1:C:1195:VAL:HG11	1:C:1241:PHE:HZ	1.72	0.54
1:D:124:ASN:H	1:D:303:LYS:HZ3	1.56	0.54
1:D:301:LEU:CD2	1:D:313:PRO:CD	2.86	0.54
1:D:301:LEU:HD23	1:D:313:PRO:HD2	1.89	0.54
1:D:368:MET:HA	1:D:390:TRP:HE1	1.73	0.54
1:D:388:LEU:HB2	1:D:446:HIS:CE1	2.43	0.54
1:E:168:TYR:O	1:E:171:GLN:N	2.41	0.54
1:F:120:PHE:HE1	1:F:159:TRP:CE3	2.26	0.54
1:F:301:LEU:HD23	1:F:313:PRO:HD2	1.89	0.54
1:F:1195:VAL:HG11	1:F:1241:PHE:HZ	1.73	0.54
1:G:106:TYR:O	1:G:109:GLN:N	2.41	0.54
1:G:353:ILE:HD11	1:G:427:LEU:HA	1.89	0.54
1:G:538:LEU:CD1	1:G:571:GLU:HG2	2.37	0.54
1:H:368:MET:HE1	1:H:401:VAL:HG21	1.88	0.54
1:H:604:ASN:HB3	1:H:929:VAL:HG12	1.90	0.54
1:I:120:PHE:HE1	1:I:159:TRP:CE3	2.26	0.54
1:J:388:LEU:HB2	1:J:446:HIS:CE1	2.43	0.54
1:J:487:PHE:CD2	1:J:489:MET:HG3	2.42	0.54
1:K:106:TYR:O	1:K:109:GLN:N	2.41	0.54
1:K:124:ASN:H	1:K:303:LYS:HZ3	1.56	0.54
1:K:301:LEU:HD23	1:K:313:PRO:HD2	1.89	0.54
1:K:383:THR:N	1:K:419:THR:HA	2.21	0.54
1:K:388:LEU:HB2	1:K:446:HIS:CE1	2.43	0.54
1:L:1182:GLU:O	1:L:1183:GLU:HG3	2.08	0.54
1:L:1195:VAL:HG11	1:L:1241:PHE:HZ	1.73	0.54
1:M:168:TYR:O	1:M:171:GLN:N	2.41	0.54
1:M:301:LEU:CD2	1:M:313:PRO:CD	2.86	0.54
1:M:383:THR:N	1:M:419:THR:HA	2.21	0.54
1:M:388:LEU:HB2	1:M:446:HIS:CE1	2.43	0.54
1:N:106:TYR:O	1:N:109:GLN:N	2.41	0.54
1:O:156:GLY:HA2	2:O:1501:DTP:O1A	2.08	0.54
1:O:389:ILE:CD1	1:O:446:HIS:CD2	2.91	0.54
1:O:510:ALA:O	1:O:511:SER:HB2	2.07	0.54
1:O:604:ASN:HB3	1:O:929:VAL:HG12	1.90	0.54
1:P:353:ILE:HD11	1:P:427:LEU:HA	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:487:PHE:HD2	1:A:489:MET:HG3	1.72	0.54
1:A:550:GLU:O	1:A:552:ASN:ND2	2.41	0.54
1:B:301:LEU:CD2	1:B:313:PRO:CD	2.86	0.54
1:B:383:THR:N	1:B:419:THR:HA	2.21	0.54
1:B:1182:GLU:O	1:B:1183:GLU:HG3	2.08	0.54
1:C:106:TYR:O	1:C:109:GLN:N	2.41	0.54
1:C:119:VAL:HA	1:C:159:TRP:CH2	2.43	0.54
1:D:106:TYR:O	1:D:109:GLN:N	2.41	0.54
1:D:119:VAL:HA	1:D:159:TRP:CH2	2.43	0.54
1:E:100:SER:O	1:E:103:THR:N	2.41	0.54
1:E:557:LYS:CB	1:E:1226:TYR:CE1	2.87	0.54
1:F:301:LEU:CD2	1:F:313:PRO:CD	2.86	0.54
1:F:767:GLY:HA2	1:F:783:THR:HG22	1.89	0.54
1:H:150:ASP:OD1	1:H:151:GLY:N	2.40	0.54
1:H:388:LEU:CB	1:H:446:HIS:CE1	2.91	0.54
1:H:538:LEU:CG	1:H:571:GLU:HG2	2.37	0.54
1:I:301:LEU:HD23	1:I:313:PRO:HD2	1.89	0.54
1:I:388:LEU:CB	1:I:446:HIS:CE1	2.91	0.54
1:K:119:VAL:HA	1:K:159:TRP:CH2	2.43	0.54
1:K:301:LEU:CD2	1:K:313:PRO:CD	2.86	0.54
1:K:368:MET:HA	1:K:390:TRP:HE1	1.73	0.54
1:L:106:TYR:O	1:L:109:GLN:N	2.41	0.54
1:L:343:HIS:O	1:L:344:VAL:C	2.46	0.54
1:M:343:HIS:O	1:M:344:VAL:C	2.46	0.54
1:N:550:GLU:O	1:N:552:ASN:ND2	2.41	0.54
1:O:150:ASP:OD1	1:O:151:GLY:N	2.40	0.54
1:P:106:TYR:O	1:P:109:GLN:N	2.41	0.54
1:P:557:LYS:CE	1:P:1224:LEU:O	2.50	0.54
1:A:368:MET:HA	1:A:390:TRP:HE1	1.73	0.53
1:A:510:ALA:O	1:A:511:SER:HB2	2.07	0.53
1:B:120:PHE:CZ	1:B:162:LEU:HB2	2.43	0.53
1:B:743:ILE:HG22	1:B:762:LYS:HA	1.91	0.53
1:C:553:LEU:HB3	1:C:556:SER:HG	1.73	0.53
1:E:150:ASP:OD1	1:E:151:GLY:N	2.40	0.53
1:E:538:LEU:CD1	1:E:571:GLU:HG2	2.38	0.53
1:F:386:LEU:HD12	1:F:420:ILE:HD13	1.90	0.53
1:G:124:ASN:H	1:G:303:LYS:HZ3	1.56	0.53
1:H:120:PHE:CZ	1:H:162:LEU:HB2	2.43	0.53
1:H:510:ALA:O	1:H:511:SER:HB2	2.07	0.53
1:I:487:PHE:CD2	1:I:489:MET:HG3	2.42	0.53
1:I:553:LEU:HB3	1:I:556:SER:HG	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:100:SER:O	1:J:103:THR:N	2.41	0.53
1:J:171:GLN:HE22	1:J:178:ILE:HD12	1.74	0.53
1:J:557:LYS:CB	1:J:1226:TYR:CE1	2.87	0.53
1:J:767:GLY:HA2	1:J:783:THR:HG22	1.89	0.53
1:L:550:GLU:O	1:L:552:ASN:ND2	2.41	0.53
1:L:557:LYS:CB	1:L:1226:TYR:CE1	2.87	0.53
1:M:114:TYR:O	1:M:117:ASN:N	2.36	0.53
1:M:120:PHE:CZ	1:M:162:LEU:HB2	2.43	0.53
1:M:1182:GLU:O	1:M:1183:GLU:HG3	2.08	0.53
1:N:386:LEU:HD12	1:N:420:ILE:HD13	1.90	0.53
1:N:510:ALA:O	1:N:511:SER:HB2	2.07	0.53
1:P:538:LEU:CD1	1:P:571:GLU:HG2	2.38	0.53
1:P:604:ASN:HB3	1:P:929:VAL:HG12	1.90	0.53
1:B:100:SER:O	1:B:103:THR:N	2.41	0.53
1:B:114:TYR:O	1:B:117:ASN:N	2.36	0.53
1:B:171:GLN:HE22	1:B:178:ILE:HD12	1.74	0.53
1:B:389:ILE:CD1	1:B:446:HIS:CD2	2.91	0.53
1:D:120:PHE:HZ	1:D:162:LEU:HB2	1.73	0.53
1:E:386:LEU:HD12	1:E:420:ILE:HD13	1.90	0.53
1:E:487:PHE:HD2	1:E:489:MET:HG3	1.72	0.53
1:E:767:GLY:HA2	1:E:783:THR:HG22	1.89	0.53
1:F:106:TYR:O	1:F:109:GLN:N	2.41	0.53
1:F:1182:GLU:O	1:F:1183:GLU:HG3	2.08	0.53
1:G:120:PHE:CZ	1:G:162:LEU:HB2	2.43	0.53
1:G:156:GLY:HA2	2:G:1501:DTP:O2A	2.08	0.53
1:G:168:TYR:O	1:G:171:GLN:N	2.41	0.53
1:G:557:LYS:CE	1:G:1224:LEU:O	2.51	0.53
1:G:604:ASN:HB3	1:G:929:VAL:HG12	1.90	0.53
1:I:301:LEU:CD2	1:I:313:PRO:CD	2.86	0.53
1:J:120:PHE:HZ	1:J:162:LEU:HB2	1.73	0.53
1:J:150:ASP:OD1	1:J:151:GLY:N	2.40	0.53
1:J:386:LEU:HD12	1:J:420:ILE:HD13	1.90	0.53
1:J:538:LEU:CD1	1:J:571:GLU:HG2	2.38	0.53
1:K:120:PHE:HZ	1:K:162:LEU:HB2	1.73	0.53
1:L:119:VAL:HA	1:L:159:TRP:CH2	2.43	0.53
1:M:100:SER:O	1:M:103:THR:N	2.41	0.53
1:M:171:GLN:HE22	1:M:178:ILE:HD12	1.74	0.53
1:M:389:ILE:CD1	1:M:446:HIS:CD2	2.91	0.53
1:N:119:VAL:HA	1:N:159:TRP:CH2	2.43	0.53
1:O:120:PHE:CZ	1:O:162:LEU:HB2	2.43	0.53
1:O:388:LEU:CB	1:O:446:HIS:CE1	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:538:LEU:CG	1:O:571:GLU:HG2	2.37	0.53
1:P:156:GLY:HA2	2:P:1501:DTP:O1A	2.08	0.53
1:P:168:TYR:O	1:P:171:GLN:N	2.41	0.53
1:A:119:VAL:HA	1:A:159:TRP:CH2	2.43	0.53
1:A:120:PHE:CZ	1:A:162:LEU:HB2	2.43	0.53
1:A:386:LEU:HD12	1:A:420:ILE:HD13	1.90	0.53
1:A:548:LYS:HZ2	1:A:601:GLN:H	1.56	0.53
1:B:248:GLN:CD	1:B:268:PHE:CE2	2.74	0.53
1:B:388:LEU:CB	1:B:446:HIS:CE1	2.91	0.53
1:C:388:LEU:HB2	1:C:446:HIS:CE1	2.43	0.53
1:D:343:HIS:O	1:D:344:VAL:C	2.46	0.53
1:E:120:PHE:HZ	1:E:162:LEU:HB2	1.73	0.53
1:E:171:GLN:HE22	1:E:178:ILE:HD12	1.74	0.53
1:E:388:LEU:CB	1:E:446:HIS:CE1	2.91	0.53
1:F:388:LEU:CB	1:F:446:HIS:CE1	2.91	0.53
1:F:487:PHE:CD2	1:F:489:MET:HG3	2.42	0.53
1:G:450:PRO:HG2	1:G:471:ILE:HD11	1.90	0.53
1:I:106:TYR:O	1:I:109:GLN:N	2.41	0.53
1:I:548:LYS:HZ2	1:I:601:GLN:H	1.53	0.53
1:I:767:GLY:HA2	1:I:783:THR:HG22	1.89	0.53
1:I:1182:GLU:O	1:I:1183:GLU:HG3	2.08	0.53
1:J:388:LEU:CB	1:J:446:HIS:CE1	2.91	0.53
1:J:487:PHE:HD2	1:J:489:MET:HG3	1.72	0.53
1:K:150:ASP:OD1	1:K:151:GLY:N	2.40	0.53
1:K:343:HIS:O	1:K:344:VAL:C	2.46	0.53
1:L:91:PRO:O	1:L:94:THR:OG1	2.22	0.53
1:L:637:LEU:O	1:L:638:GLU:CB	2.43	0.53
1:M:388:LEU:CB	1:M:446:HIS:CE1	2.91	0.53
1:M:743:ILE:HG22	1:M:762:LYS:HA	1.91	0.53
1:N:368:MET:HA	1:N:390:TRP:HE1	1.73	0.53
1:N:397:ASP:HA	1:N:400:VAL:HB	1.89	0.53
1:N:487:PHE:HD2	1:N:489:MET:HG3	1.72	0.53
1:P:120:PHE:CZ	1:P:162:LEU:HB2	2.43	0.53
1:P:450:PRO:HG2	1:P:471:ILE:HD11	1.90	0.53
1:A:343:HIS:O	1:A:344:VAL:C	2.46	0.53
1:B:106:TYR:O	1:B:109:GLN:N	2.41	0.53
1:B:119:VAL:HA	1:B:159:TRP:CH2	2.43	0.53
1:B:313:PRO:HA	1:B:338:TRP:HH2	1.63	0.53
1:C:156:GLY:HA2	2:C:1501:DTP:O2A	2.08	0.53
1:C:248:GLN:CD	1:C:268:PHE:CE2	2.74	0.53
1:C:557:LYS:CB	1:C:1226:TYR:CE1	2.87	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:156:GLY:HA2	2:D:1501:DTP:O2A	2.08	0.53
1:D:550:GLU:O	1:D:552:ASN:ND2	2.41	0.53
1:E:301:LEU:CD2	1:E:313:PRO:CD	2.86	0.53
1:E:301:LEU:HD23	1:E:313:PRO:HD2	1.89	0.53
1:E:743:ILE:HG22	1:E:762:LYS:HA	1.91	0.53
1:F:553:LEU:HB3	1:F:556:SER:HG	1.73	0.53
1:G:388:LEU:CB	1:G:446:HIS:CE1	2.91	0.53
1:G:389:ILE:CD1	1:G:446:HIS:CD2	2.91	0.53
1:G:394:ILE:HD12	1:G:395:LYS:HE3	1.91	0.53
1:H:450:PRO:HG2	1:H:471:ILE:HD11	1.91	0.53
1:I:168:TYR:O	1:I:171:GLN:N	2.41	0.53
1:I:386:LEU:HD12	1:I:420:ILE:HD13	1.90	0.53
1:I:397:ASP:HA	1:I:400:VAL:HB	1.89	0.53
1:J:301:LEU:CD2	1:J:313:PRO:CD	2.86	0.53
1:J:743:ILE:HG22	1:J:762:LYS:HA	1.91	0.53
1:K:156:GLY:HA2	2:K:1501:DTP:O1A	2.08	0.53
1:K:389:ILE:CD1	1:K:446:HIS:CD2	2.91	0.53
1:L:388:LEU:HB2	1:L:446:HIS:CE1	2.43	0.53
1:M:106:TYR:O	1:M:109:GLN:N	2.41	0.53
1:M:248:GLN:CD	1:M:268:PHE:CE2	2.74	0.53
1:N:156:GLY:HA2	2:N:1501:DTP:O1A	2.08	0.53
1:P:388:LEU:CB	1:P:446:HIS:CE1	2.91	0.53
1:P:389:ILE:CD1	1:P:446:HIS:CD2	2.91	0.53
1:A:604:ASN:HB3	1:A:929:VAL:HG12	1.90	0.53
1:C:114:TYR:O	1:C:117:ASN:N	2.36	0.53
1:C:168:TYR:O	1:C:171:GLN:N	2.41	0.53
1:C:386:LEU:HD12	1:C:420:ILE:HD13	1.90	0.53
1:C:631:LEU:HD22	1:C:680:LEU:HD22	1.91	0.53
1:C:743:ILE:HG22	1:C:762:LYS:HA	1.91	0.53
1:D:150:ASP:OD1	1:D:151:GLY:N	2.41	0.53
1:D:389:ILE:CD1	1:D:446:HIS:CD2	2.91	0.53
1:E:368:MET:HA	1:E:390:TRP:HE1	1.73	0.53
1:G:171:GLN:HE22	1:G:178:ILE:HD12	1.74	0.53
1:H:106:TYR:O	1:H:109:GLN:N	2.41	0.53
1:H:119:VAL:HA	1:H:159:TRP:CH2	2.43	0.53
1:H:799:ASN:C	1:H:800:THR:HG23	2.29	0.53
1:I:120:PHE:HZ	1:I:162:LEU:HB2	1.73	0.53
1:I:631:LEU:HD22	1:I:680:LEU:HD22	1.91	0.53
1:J:301:LEU:HD23	1:J:313:PRO:HD2	1.89	0.53
1:J:410:LEU:HD22	1:J:413:LYS:HA	1.88	0.53
1:K:550:GLU:O	1:K:552:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:510:ALA:O	1:L:511:SER:HB2	2.07	0.53
1:M:119:VAL:HA	1:M:159:TRP:CH2	2.43	0.53
1:M:313:PRO:HA	1:M:338:TRP:HH2	1.63	0.53
1:N:120:PHE:CZ	1:N:162:LEU:HB2	2.43	0.53
1:N:343:HIS:O	1:N:344:VAL:C	2.46	0.53
1:N:548:LYS:HZ2	1:N:601:GLN:H	1.56	0.53
1:O:106:TYR:O	1:O:109:GLN:N	2.41	0.53
1:O:386:LEU:HD12	1:O:420:ILE:HD13	1.90	0.53
1:P:1195:VAL:HG11	1:P:1241:PHE:HZ	1.73	0.53
1:A:156:GLY:HA2	2:A:1501:DTP:O2A	2.08	0.53
1:A:397:ASP:HA	1:A:400:VAL:HB	1.89	0.53
1:B:799:ASN:C	1:B:800:THR:HG23	2.29	0.53
1:C:388:LEU:CB	1:C:446:HIS:CE1	2.91	0.53
1:C:487:PHE:HD2	1:C:489:MET:HG3	1.72	0.53
1:C:508:TRP:CZ3	1:C:927:GLN:C	2.82	0.53
1:E:508:TRP:CZ3	1:E:927:GLN:C	2.82	0.53
1:F:119:VAL:HA	1:F:159:TRP:CH2	2.43	0.53
1:F:631:LEU:HD22	1:F:680:LEU:HD22	1.91	0.53
1:F:743:ILE:HG22	1:F:762:LYS:HA	1.91	0.53
1:H:368:MET:HA	1:H:390:TRP:HE1	1.72	0.53
1:H:1182:GLU:O	1:H:1183:GLU:HG3	2.08	0.53
1:I:343:HIS:O	1:I:344:VAL:C	2.46	0.53
1:J:368:MET:HA	1:J:390:TRP:HE1	1.73	0.53
1:L:397:ASP:HA	1:L:400:VAL:HB	1.89	0.53
1:L:631:LEU:HD22	1:L:680:LEU:HD22	1.91	0.53
1:M:397:ASP:HA	1:M:400:VAL:HB	1.89	0.53
1:M:799:ASN:C	1:M:800:THR:HG23	2.29	0.53
1:N:604:ASN:HB3	1:N:929:VAL:HG12	1.90	0.53
1:O:119:VAL:HA	1:O:159:TRP:CH2	2.43	0.53
1:O:450:PRO:HG2	1:O:471:ILE:HD11	1.91	0.53
1:O:616:LEU:HD23	1:O:620:PHE:HB2	1.91	0.53
1:O:799:ASN:C	1:O:800:THR:HG23	2.29	0.53
1:O:1182:GLU:O	1:O:1183:GLU:HG3	2.08	0.53
1:P:171:GLN:HE22	1:P:178:ILE:HD12	1.74	0.53
1:P:394:ILE:HD12	1:P:395:LYS:HE3	1.91	0.53
1:A:1182:GLU:O	1:A:1183:GLU:HG3	2.08	0.53
1:B:156:GLY:HA2	2:B:1501:DTP:O2A	2.08	0.53
1:B:397:ASP:HA	1:B:400:VAL:HB	1.89	0.53
1:B:508:TRP:CZ3	1:B:927:GLN:C	2.82	0.53
1:C:397:ASP:HA	1:C:400:VAL:HB	1.89	0.53
1:D:388:LEU:CB	1:D:446:HIS:CE1	2.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:511:SER:C	1:D:513:SER:N	2.60	0.53
1:E:410:LEU:HD22	1:E:413:LYS:HA	1.88	0.53
1:F:120:PHE:HZ	1:F:162:LEU:HB2	1.73	0.53
1:F:120:PHE:CZ	1:F:162:LEU:HB2	2.43	0.53
1:F:171:GLN:HE22	1:F:178:ILE:HD12	1.74	0.53
1:G:799:ASN:C	1:G:800:THR:HG23	2.29	0.53
1:G:1195:VAL:HG11	1:G:1241:PHE:HZ	1.73	0.53
1:H:386:LEU:HD12	1:H:420:ILE:HD13	1.90	0.53
1:H:394:ILE:HD12	1:H:395:LYS:HE3	1.91	0.53
1:H:616:LEU:HD23	1:H:620:PHE:HB2	1.91	0.53
1:I:743:ILE:HG22	1:I:762:LYS:HA	1.91	0.53
1:K:388:LEU:CB	1:K:446:HIS:CE1	2.91	0.53
1:K:487:PHE:HD2	1:K:489:MET:HG3	1.72	0.53
1:L:388:LEU:CB	1:L:446:HIS:CE1	2.91	0.53
1:M:156:GLY:HA2	2:M:1501:DTP:O1A	2.08	0.53
1:O:120:PHE:HE1	1:O:159:TRP:CE3	2.26	0.53
1:P:799:ASN:C	1:P:800:THR:HG23	2.29	0.53
1:A:1195:VAL:HG11	1:A:1241:PHE:HZ	1.73	0.53
1:D:508:TRP:CZ3	1:D:927:GLN:C	2.82	0.53
1:D:1182:GLU:O	1:D:1183:GLU:HG3	2.08	0.53
1:F:14:ASP:OD2	1:G:142:ARG:CZ	2.55	0.53
1:F:168:TYR:O	1:F:171:GLN:N	2.41	0.53
1:F:487:PHE:HD2	1:F:489:MET:HG3	1.72	0.53
1:J:508:TRP:CZ3	1:J:927:GLN:C	2.82	0.53
1:J:550:GLU:O	1:J:552:ASN:ND2	2.41	0.53
1:L:156:GLY:HA2	2:L:1501:DTP:O1A	2.08	0.53
1:L:168:TYR:O	1:L:171:GLN:N	2.41	0.53
1:L:487:PHE:HD2	1:L:489:MET:HG3	1.72	0.53
1:N:743:ILE:HG22	1:N:762:LYS:HA	1.91	0.53
1:N:1182:GLU:O	1:N:1183:GLU:HG3	2.08	0.53
1:N:1195:VAL:HG11	1:N:1241:PHE:HZ	1.73	0.53
1:O:368:MET:HA	1:O:390:TRP:HE1	1.73	0.53
1:O:394:ILE:HD12	1:O:395:LYS:HE3	1.91	0.53
1:A:508:TRP:CZ3	1:A:927:GLN:C	2.82	0.53
1:A:557:LYS:HZ2	1:A:1223:GLN:HG3	1.73	0.53
1:A:992:ARG:HH12	1:A:1029:GLU:HG2	1.74	0.53
1:B:550:GLU:O	1:B:552:ASN:ND2	2.41	0.53
1:D:487:PHE:HD2	1:D:489:MET:HG3	1.72	0.53
1:E:156:GLY:HA2	2:E:1501:DTP:O2A	2.08	0.53
1:E:389:ILE:CD1	1:E:446:HIS:CD2	2.91	0.53
1:E:550:GLU:O	1:E:552:ASN:ND2	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:616:LEU:HD23	1:E:620:PHE:HB2	1.91	0.53
1:F:188:SER:N	1:F:251:APK:O2P	2.31	0.53
1:F:394:ILE:HD12	1:F:395:LYS:HE3	1.91	0.53
1:F:604:ASN:HB3	1:F:929:VAL:HG12	1.90	0.53
1:F:799:ASN:C	1:F:800:THR:HG23	2.29	0.53
1:H:120:PHE:HE1	1:H:159:TRP:CE3	2.26	0.53
1:H:1195:VAL:HG11	1:H:1241:PHE:HZ	1.72	0.53
1:I:119:VAL:HA	1:I:159:TRP:CH2	2.43	0.53
1:I:120:PHE:CZ	1:I:162:LEU:HB2	2.43	0.53
1:I:799:ASN:C	1:I:800:THR:HG23	2.29	0.53
1:J:120:PHE:CZ	1:J:162:LEU:HB2	2.43	0.53
1:J:156:GLY:HA2	2:J:1501:DTP:O1A	2.08	0.53
1:J:389:ILE:CD1	1:J:446:HIS:CD2	2.91	0.53
1:K:511:SER:C	1:K:513:SER:N	2.61	0.53
1:K:1182:GLU:O	1:K:1183:GLU:HG3	2.08	0.53
1:L:386:LEU:HD12	1:L:420:ILE:HD13	1.90	0.53
1:L:508:TRP:CZ3	1:L:927:GLN:C	2.82	0.53
1:L:743:ILE:HG22	1:L:762:LYS:HA	1.91	0.53
1:M:508:TRP:CZ3	1:M:927:GLN:C	2.82	0.53
1:N:171:GLN:HE22	1:N:178:ILE:HD12	1.74	0.53
1:N:992:ARG:HH12	1:N:1029:GLU:HG2	1.74	0.53
1:O:992:ARG:HH12	1:O:1029:GLU:HG2	1.74	0.53
1:B:557:LYS:HZ2	1:B:1223:GLN:HG3	1.73	0.53
1:C:171:GLN:HE22	1:C:178:ILE:HD12	1.74	0.53
1:C:799:ASN:C	1:C:800:THR:HG23	2.29	0.53
1:D:604:ASN:HB3	1:D:929:VAL:HG12	1.90	0.53
1:D:616:LEU:HD23	1:D:620:PHE:HB2	1.91	0.53
1:D:631:LEU:HD22	1:D:680:LEU:HD22	1.91	0.53
1:E:106:TYR:O	1:E:109:GLN:N	2.41	0.53
1:E:120:PHE:CZ	1:E:162:LEU:HB2	2.43	0.53
1:G:487:PHE:HD2	1:G:489:MET:HG3	1.72	0.53
1:G:992:ARG:HH12	1:G:1029:GLU:HG2	1.74	0.53
1:H:992:ARG:HH12	1:H:1029:GLU:HG2	1.74	0.53
1:I:171:GLN:HE22	1:I:178:ILE:HD12	1.74	0.53
1:I:450:PRO:HG2	1:I:471:ILE:HD11	1.90	0.53
1:I:836:VAL:HG21	1:I:876:LEU:HD22	1.91	0.53
1:J:616:LEU:HD23	1:J:620:PHE:HB2	1.91	0.53
1:J:836:VAL:HG21	1:J:876:LEU:HD22	1.91	0.53
1:J:1086:LYS:O	1:J:1087:ILE:HG13	2.09	0.53
1:K:508:TRP:CZ3	1:K:927:GLN:C	2.82	0.53
1:K:604:ASN:HB3	1:K:929:VAL:HG12	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:616:LEU:HD23	1:K:620:PHE:HB2	1.91	0.53
1:M:550:GLU:O	1:M:552:ASN:ND2	2.41	0.53
1:M:604:ASN:HB3	1:M:929:VAL:HG12	1.90	0.53
1:O:1195:VAL:HG11	1:O:1241:PHE:HZ	1.73	0.53
1:P:616:LEU:HD23	1:P:620:PHE:HB2	1.91	0.53
1:P:992:ARG:HH12	1:P:1029:GLU:HG2	1.74	0.53
1:A:743:ILE:HG22	1:A:762:LYS:HA	1.91	0.52
1:E:394:ILE:HD12	1:E:395:LYS:HE3	1.91	0.52
1:E:836:VAL:HG21	1:E:876:LEU:HD22	1.91	0.52
1:E:1182:GLU:O	1:E:1183:GLU:HG3	2.08	0.52
1:G:616:LEU:HD23	1:G:620:PHE:HB2	1.91	0.52
1:I:394:ILE:HD12	1:I:395:LYS:HE3	1.91	0.52
1:I:604:ASN:HB3	1:I:929:VAL:HG12	1.90	0.52
1:J:394:ILE:HD12	1:J:395:LYS:HE3	1.91	0.52
1:J:1182:GLU:O	1:J:1183:GLU:HG3	2.08	0.52
1:K:631:LEU:HD22	1:K:680:LEU:HD22	1.91	0.52
1:L:188:SER:N	1:L:251:APK:O2P	2.31	0.52
1:M:992:ARG:HH12	1:M:1029:GLU:HG2	1.74	0.52
1:N:378:SER:H	1:N:422:ILE:HD13	1.62	0.52
1:N:508:TRP:CZ3	1:N:927:GLN:C	2.82	0.52
1:P:518:LEU:HD22	1:P:643:TYR:CE1	2.22	0.52
1:A:171:GLN:HE22	1:A:178:ILE:HD12	1.74	0.52
1:A:450:PRO:HG2	1:A:471:ILE:HD11	1.90	0.52
1:A:912:ASP:OD2	1:A:921:CYS:SG	2.68	0.52
1:B:992:ARG:HH12	1:B:1029:GLU:HG2	1.74	0.52
1:B:1195:VAL:HG11	1:B:1241:PHE:HZ	1.73	0.52
1:C:120:PHE:CZ	1:C:162:LEU:HB2	2.43	0.52
1:D:1086:LYS:O	1:D:1087:ILE:HG13	2.09	0.52
1:E:912:ASP:OD2	1:E:921:CYS:SG	2.68	0.52
1:E:1086:LYS:O	1:E:1087:ILE:HG13	2.09	0.52
1:F:389:ILE:CD1	1:F:446:HIS:CD2	2.91	0.52
1:F:625:LEU:HD22	1:F:629:GLN:HA	1.92	0.52
1:G:386:LEU:HD12	1:G:420:ILE:HD13	1.90	0.52
1:G:518:LEU:HD22	1:G:643:TYR:CE1	2.22	0.52
1:G:553:LEU:HB3	1:G:556:SER:HG	1.74	0.52
1:G:631:LEU:HD22	1:G:680:LEU:HD22	1.91	0.52
1:G:1182:GLU:O	1:G:1183:GLU:HG3	2.08	0.52
1:I:487:PHE:HD2	1:I:489:MET:HG3	1.72	0.52
1:J:106:TYR:O	1:J:109:GLN:N	2.41	0.52
1:J:912:ASP:OD2	1:J:921:CYS:SG	2.68	0.52
1:J:1177:TYR:CE2	1:K:916:LYS:CE	2.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:171:GLN:HE22	1:K:178:ILE:HD12	1.74	0.52
1:K:450:PRO:HG2	1:K:471:ILE:HD11	1.90	0.52
1:K:1086:LYS:O	1:K:1087:ILE:HG13	2.09	0.52
1:L:120:PHE:HZ	1:L:162:LEU:HB2	1.73	0.52
1:L:912:ASP:OD2	1:L:921:CYS:SG	2.68	0.52
1:M:557:LYS:HZ2	1:M:1223:GLN:HG3	1.73	0.52
1:N:912:ASP:OD2	1:N:921:CYS:SG	2.68	0.52
1:O:171:GLN:HE22	1:O:178:ILE:HD12	1.74	0.52
1:P:631:LEU:HD22	1:P:680:LEU:HD22	1.91	0.52
1:A:120:PHE:HZ	1:A:162:LEU:HB2	1.73	0.52
1:A:616:LEU:HD23	1:A:620:PHE:HB2	1.91	0.52
1:B:604:ASN:HB3	1:B:929:VAL:HG12	1.90	0.52
1:B:912:ASP:OD2	1:B:921:CYS:SG	2.68	0.52
1:D:346:CYS:O	1:D:350:THR:N	2.25	0.52
1:D:397:ASP:HA	1:D:400:VAL:HB	1.89	0.52
1:D:450:PRO:HG2	1:D:471:ILE:HD11	1.90	0.52
1:D:836:VAL:HG21	1:D:876:LEU:HD22	1.91	0.52
1:E:625:LEU:HD22	1:E:629:GLN:HA	1.92	0.52
1:F:183:LEU:HD11	1:F:256:PHE:HE2	1.75	0.52
1:F:450:PRO:HG2	1:F:471:ILE:HD11	1.90	0.52
1:F:836:VAL:HG21	1:F:876:LEU:HD22	1.91	0.52
1:F:1086:LYS:O	1:F:1087:ILE:HG13	2.09	0.52
1:G:397:ASP:O	1:G:401:VAL:N	2.28	0.52
1:H:171:GLN:HE22	1:H:178:ILE:HD12	1.74	0.52
1:I:912:ASP:OD2	1:I:921:CYS:SG	2.68	0.52
1:K:397:ASP:HA	1:K:400:VAL:HB	1.89	0.52
1:K:836:VAL:HG21	1:K:876:LEU:HD22	1.91	0.52
1:M:631:LEU:HD22	1:M:680:LEU:HD22	1.91	0.52
1:M:912:ASP:OD2	1:M:921:CYS:SG	2.68	0.52
1:O:743:ILE:HG22	1:O:762:LYS:HA	1.91	0.52
1:P:386:LEU:HD12	1:P:420:ILE:HD13	1.90	0.52
1:P:397:ASP:O	1:P:401:VAL:N	2.28	0.52
1:P:487:PHE:HD2	1:P:489:MET:HG3	1.72	0.52
1:C:120:PHE:HZ	1:C:162:LEU:HB2	1.73	0.52
1:C:1086:LYS:O	1:C:1087:ILE:HG13	2.09	0.52
1:D:130:PRO:HA	1:D:290:MET:HE1	1.91	0.52
1:E:631:LEU:HD22	1:E:680:LEU:HD22	1.91	0.52
1:E:799:ASN:C	1:E:800:THR:HG23	2.29	0.52
1:F:992:ARG:HH12	1:F:1029:GLU:HG2	1.74	0.52
1:G:120:PHE:HZ	1:G:162:LEU:HB2	1.73	0.52
1:H:743:ILE:HG22	1:H:762:LYS:HA	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:183:LEU:HD11	1:I:256:PHE:HE2	1.75	0.52
1:I:625:LEU:HD22	1:I:629:GLN:HA	1.92	0.52
1:I:992:ARG:HH12	1:I:1029:GLU:HG2	1.74	0.52
1:I:1086:LYS:O	1:I:1087:ILE:HG13	2.09	0.52
1:J:36:PRO:O	1:J:39:ILE:HG22	2.10	0.52
1:J:625:LEU:HD22	1:J:629:GLN:HA	1.92	0.52
1:J:631:LEU:HD22	1:J:680:LEU:HD22	1.91	0.52
1:K:276:SER:OG	1:L:122:LYS:CG	2.57	0.52
1:L:36:PRO:O	1:L:39:ILE:HG22	2.10	0.52
1:L:346:CYS:O	1:L:350:THR:N	2.25	0.52
1:M:1195:VAL:HG11	1:M:1241:PHE:HZ	1.73	0.52
1:N:120:PHE:HZ	1:N:162:LEU:HB2	1.73	0.52
1:N:450:PRO:HG2	1:N:471:ILE:HD11	1.90	0.52
1:P:1182:GLU:O	1:P:1183:GLU:HG3	2.08	0.52
1:A:378:SER:H	1:A:422:ILE:HD13	1.62	0.52
1:A:394:ILE:HD12	1:A:395:LYS:HE3	1.91	0.52
1:B:631:LEU:HD22	1:B:680:LEU:HD22	1.91	0.52
1:C:14:ASP:OD2	1:D:142:ARG:CZ	2.57	0.52
1:C:36:PRO:O	1:C:39:ILE:HG22	2.10	0.52
1:C:122:LYS:HG3	1:D:276:SER:HB2	1.91	0.52
1:C:188:SER:N	1:C:251:APK:O2P	2.31	0.52
1:D:518:LEU:HD22	1:D:643:TYR:CE1	2.22	0.52
1:D:625:LEU:HD22	1:D:629:GLN:HA	1.92	0.52
1:E:36:PRO:O	1:E:39:ILE:HG22	2.10	0.52
1:F:912:ASP:OD2	1:F:921:CYS:SG	2.68	0.52
1:G:508:TRP:CZ3	1:G:927:GLN:C	2.82	0.52
1:H:508:TRP:CZ3	1:H:927:GLN:C	2.82	0.52
1:J:343:HIS:O	1:J:344:VAL:C	2.46	0.52
1:J:799:ASN:C	1:J:800:THR:HG23	2.29	0.52
1:K:625:LEU:HD22	1:K:629:GLN:HA	1.92	0.52
1:L:120:PHE:CZ	1:L:162:LEU:HB2	2.43	0.52
1:L:171:GLN:HE22	1:L:178:ILE:HD12	1.74	0.52
1:N:394:ILE:HD12	1:N:395:LYS:HE3	1.91	0.52
1:N:616:LEU:HD23	1:N:620:PHE:HB2	1.91	0.52
1:N:625:LEU:HD22	1:N:629:GLN:HA	1.92	0.52
1:P:162:LEU:O	1:P:165:CYS:N	2.43	0.52
1:A:625:LEU:HD22	1:A:629:GLN:HA	1.92	0.52
1:C:346:CYS:O	1:C:350:THR:N	2.25	0.52
1:D:171:GLN:HE22	1:D:178:ILE:HD12	1.74	0.52
1:D:992:ARG:HH12	1:D:1029:GLU:HG2	1.74	0.52
1:G:548:LYS:HZ2	1:G:601:GLN:H	1.54	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:743:ILE:HG22	1:G:762:LYS:HA	1.91	0.52
1:H:162:LEU:O	1:H:165:CYS:N	2.43	0.52
1:K:120:PHE:CZ	1:K:162:LEU:HB2	2.43	0.52
1:K:130:PRO:HA	1:K:290:MET:HE1	1.91	0.52
1:K:346:CYS:O	1:K:350:THR:N	2.25	0.52
1:L:450:PRO:HG2	1:L:471:ILE:HD11	1.91	0.52
1:N:518:LEU:HD12	1:N:518:LEU:N	2.20	0.52
1:O:162:LEU:O	1:O:165:CYS:N	2.43	0.52
1:O:375:PHE:CD2	1:O:381:ILE:HG12	2.45	0.52
1:O:508:TRP:CZ3	1:O:927:GLN:C	2.82	0.52
1:A:183:LEU:HD11	1:A:256:PHE:HE2	1.75	0.52
1:A:799:ASN:C	1:A:800:THR:HG23	2.29	0.52
1:A:836:VAL:HG21	1:A:876:LEU:HD22	1.91	0.52
1:B:616:LEU:HD23	1:B:620:PHE:HB2	1.91	0.52
1:B:631:LEU:H	1:B:646:ARG:HB3	1.74	0.52
1:C:450:PRO:HG2	1:C:471:ILE:HD11	1.91	0.52
1:C:631:LEU:H	1:C:646:ARG:HB3	1.74	0.52
1:C:992:ARG:HH12	1:C:1029:GLU:HG2	1.74	0.52
1:D:120:PHE:CZ	1:D:162:LEU:HB2	2.43	0.52
1:D:799:ASN:C	1:D:800:THR:HG23	2.29	0.52
1:D:912:ASP:OD2	1:D:921:CYS:SG	2.68	0.52
1:E:343:HIS:O	1:E:344:VAL:C	2.46	0.52
1:E:511:SER:C	1:E:513:SER:N	2.60	0.52
1:E:553:LEU:HB3	1:E:556:SER:HG	1.75	0.52
1:F:883:ILE:HA	1:F:898:VAL:HB	1.92	0.52
1:G:162:LEU:O	1:G:165:CYS:N	2.43	0.52
1:G:1086:LYS:O	1:G:1087:ILE:HG13	2.09	0.52
1:H:343:HIS:O	1:H:344:VAL:C	2.46	0.52
1:H:375:PHE:CD2	1:H:381:ILE:HG12	2.45	0.52
1:H:631:LEU:H	1:H:646:ARG:HB3	1.74	0.52
1:I:389:ILE:CD1	1:I:446:HIS:CD2	2.91	0.52
1:I:883:ILE:HA	1:I:898:VAL:HB	1.92	0.52
1:J:183:LEU:HD11	1:J:256:PHE:HE2	1.75	0.52
1:J:604:ASN:HB3	1:J:929:VAL:HG12	1.90	0.52
1:K:36:PRO:O	1:K:39:ILE:HG22	2.10	0.52
1:K:375:PHE:CD2	1:K:381:ILE:HG12	2.45	0.52
1:K:992:ARG:HH12	1:K:1029:GLU:HG2	1.74	0.52
1:L:1086:LYS:O	1:L:1087:ILE:HG13	2.09	0.52
1:N:183:LEU:HD11	1:N:256:PHE:HE2	1.75	0.52
1:N:799:ASN:C	1:N:800:THR:HG23	2.29	0.52
1:O:63:TRP:CZ3	1:O:126:SER:HB2	2.45	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:343:HIS:O	1:O:344:VAL:C	2.46	0.52
1:O:631:LEU:H	1:O:646:ARG:HB3	1.74	0.52
1:P:120:PHE:HZ	1:P:162:LEU:HB2	1.73	0.52
1:P:508:TRP:CZ3	1:P:927:GLN:C	2.82	0.52
1:P:548:LYS:HZ2	1:P:601:GLN:H	1.54	0.52
1:P:743:ILE:HG22	1:P:762:LYS:HA	1.91	0.52
1:P:1086:LYS:O	1:P:1087:ILE:HG13	2.09	0.52
1:A:373:SER:HB3	1:A:433:LEU:CG	2.40	0.52
1:A:518:LEU:HD12	1:A:518:LEU:N	2.20	0.52
1:C:394:ILE:HD12	1:C:395:LYS:HE3	1.91	0.52
1:D:36:PRO:O	1:D:39:ILE:HG22	2.10	0.52
1:D:375:PHE:CD2	1:D:381:ILE:HG12	2.45	0.52
1:E:183:LEU:HD11	1:E:256:PHE:HE2	1.75	0.52
1:E:450:PRO:HG2	1:E:471:ILE:HD11	1.90	0.52
1:E:604:ASN:HB3	1:E:929:VAL:HG12	1.90	0.52
1:F:162:LEU:O	1:F:165:CYS:N	2.43	0.52
1:F:343:HIS:O	1:F:344:VAL:C	2.46	0.52
1:F:375:PHE:CD2	1:F:381:ILE:HG12	2.45	0.52
1:H:912:ASP:OD2	1:H:921:CYS:SG	2.68	0.52
1:I:162:LEU:O	1:I:165:CYS:N	2.43	0.52
1:I:188:SER:N	1:I:251:APK:O2P	2.31	0.52
1:J:375:PHE:CD2	1:J:381:ILE:HG12	2.45	0.52
1:J:553:LEU:HB3	1:J:556:SER:HG	1.75	0.52
1:K:518:LEU:HD22	1:K:643:TYR:CE1	2.22	0.52
1:K:799:ASN:C	1:K:800:THR:HG23	2.29	0.52
1:K:912:ASP:OD2	1:K:921:CYS:SG	2.68	0.52
1:L:248:GLN:CD	1:L:268:PHE:CE2	2.74	0.52
1:L:373:SER:HB3	1:L:433:LEU:CG	2.40	0.52
1:L:375:PHE:CD2	1:L:381:ILE:HG12	2.45	0.52
1:L:616:LEU:HD23	1:L:620:PHE:HB2	1.91	0.52
1:L:992:ARG:HH12	1:L:1029:GLU:HG2	1.74	0.52
1:N:162:LEU:O	1:N:165:CYS:N	2.43	0.52
1:N:373:SER:HB3	1:N:433:LEU:CG	2.40	0.52
1:N:836:VAL:HG21	1:N:876:LEU:HD22	1.91	0.52
1:O:912:ASP:OD2	1:O:921:CYS:SG	2.68	0.52
1:P:368:MET:HA	1:P:390:TRP:HE1	1.73	0.52
1:A:162:LEU:O	1:A:165:CYS:N	2.43	0.52
1:A:467:PHE:HD1	1:A:471:ILE:HD12	1.75	0.52
1:B:36:PRO:O	1:B:39:ILE:HG22	2.10	0.52
1:B:1086:LYS:O	1:B:1087:ILE:HG13	2.09	0.52
1:C:162:LEU:O	1:C:165:CYS:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:373:SER:HB3	1:C:433:LEU:CG	2.40	0.52
1:C:467:PHE:HD1	1:C:471:ILE:HD12	1.75	0.52
1:D:394:ILE:HD12	1:D:395:LYS:HE3	1.91	0.52
1:E:63:TRP:CZ3	1:E:126:SER:HB2	2.45	0.52
1:E:375:PHE:CD2	1:E:381:ILE:HG12	2.45	0.52
1:E:992:ARG:HH12	1:E:1029:GLU:HG2	1.74	0.52
1:F:36:PRO:O	1:F:39:ILE:HG22	2.10	0.52
1:F:508:TRP:CZ3	1:F:927:GLN:C	2.82	0.52
1:G:36:PRO:O	1:G:39:ILE:HG22	2.10	0.52
1:G:343:HIS:O	1:G:344:VAL:C	2.46	0.52
1:H:63:TRP:CZ3	1:H:126:SER:HB2	2.45	0.52
1:J:450:PRO:HG2	1:J:471:ILE:HD11	1.91	0.52
1:J:992:ARG:HH12	1:J:1029:GLU:HG2	1.74	0.52
1:K:394:ILE:HD12	1:K:395:LYS:HE3	1.91	0.52
1:K:883:ILE:HA	1:K:898:VAL:HB	1.92	0.52
1:L:799:ASN:C	1:L:800:THR:HG23	2.29	0.52
1:M:36:PRO:O	1:M:39:ILE:HG22	2.10	0.52
1:M:631:LEU:H	1:M:646:ARG:HB3	1.74	0.52
1:M:1086:LYS:O	1:M:1087:ILE:HG13	2.09	0.52
1:N:467:PHE:HD1	1:N:471:ILE:HD12	1.75	0.52
1:N:1086:LYS:O	1:N:1087:ILE:HG13	2.09	0.52
1:P:36:PRO:O	1:P:39:ILE:HG22	2.10	0.52
1:P:553:LEU:HB3	1:P:556:SER:HG	1.74	0.52
1:P:836:VAL:HG21	1:P:876:LEU:HD22	1.91	0.52
1:B:492:LEU:HD11	1:B:561:LEU:CD2	2.40	0.52
1:C:375:PHE:CD2	1:C:381:ILE:HG12	2.45	0.52
1:C:557:LYS:HZ2	1:C:1223:GLN:HG3	1.74	0.52
1:C:604:ASN:HB3	1:C:929:VAL:HG12	1.90	0.52
1:E:373:SER:HB3	1:E:433:LEU:CG	2.40	0.52
1:G:625:LEU:HD22	1:G:629:GLN:HA	1.92	0.52
1:G:836:VAL:HG21	1:G:876:LEU:HD22	1.91	0.52
1:H:1086:LYS:O	1:H:1087:ILE:HG13	2.09	0.52
1:J:63:TRP:CZ3	1:J:126:SER:HB2	2.45	0.52
1:J:373:SER:HB3	1:J:433:LEU:CG	2.40	0.52
1:L:467:PHE:HD1	1:L:471:ILE:HD12	1.75	0.52
1:L:604:ASN:HB3	1:L:929:VAL:HG12	1.90	0.52
1:L:836:VAL:HG21	1:L:876:LEU:HD22	1.91	0.52
1:M:492:LEU:HD11	1:M:561:LEU:CD2	2.40	0.52
1:M:616:LEU:HD23	1:M:620:PHE:HB2	1.91	0.52
1:N:386:LEU:HD21	1:N:390:TRP:HZ3	1.75	0.52
1:N:661:ASN:OD1	1:N:662:GLN:N	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:661:ASN:OD1	1:O:662:GLN:N	2.44	0.52
1:O:1086:LYS:O	1:O:1087:ILE:HG13	2.09	0.52
1:P:373:SER:HB3	1:P:433:LEU:CG	2.40	0.52
1:P:625:LEU:HD22	1:P:629:GLN:HA	1.92	0.52
1:A:386:LEU:HD21	1:A:390:TRP:HZ3	1.76	0.51
1:A:661:ASN:OD1	1:A:662:GLN:N	2.44	0.51
1:A:1086:LYS:O	1:A:1087:ILE:HG13	2.09	0.51
1:B:554:ILE:C	1:B:556:SER:H	2.13	0.51
1:C:492:LEU:HD11	1:C:561:LEU:CD2	2.40	0.51
1:C:616:LEU:HD23	1:C:620:PHE:HB2	1.91	0.51
1:D:386:LEU:HD21	1:D:390:TRP:HZ3	1.75	0.51
1:D:883:ILE:HA	1:D:898:VAL:HB	1.92	0.51
1:G:368:MET:HA	1:G:390:TRP:HE1	1.73	0.51
1:G:373:SER:HB3	1:G:433:LEU:CG	2.40	0.51
1:G:661:ASN:OD1	1:G:662:GLN:N	2.44	0.51
1:G:912:ASP:OD2	1:G:921:CYS:SG	2.68	0.51
1:H:36:PRO:O	1:H:39:ILE:HG22	2.10	0.51
1:H:631:LEU:HD22	1:H:680:LEU:HD22	1.91	0.51
1:H:661:ASN:OD1	1:H:662:GLN:N	2.44	0.51
1:I:36:PRO:O	1:I:39:ILE:HG22	2.10	0.51
1:I:373:SER:HB3	1:I:433:LEU:CG	2.40	0.51
1:I:375:PHE:CD2	1:I:381:ILE:HG12	2.45	0.51
1:I:508:TRP:CZ3	1:I:927:GLN:C	2.82	0.51
1:J:511:SER:C	1:J:513:SER:N	2.60	0.51
1:K:386:LEU:HD21	1:K:390:TRP:HZ3	1.76	0.51
1:L:162:LEU:O	1:L:165:CYS:N	2.43	0.51
1:L:394:ILE:HD12	1:L:395:LYS:HE3	1.91	0.51
1:M:63:TRP:CZ3	1:M:126:SER:HB2	2.45	0.51
1:M:554:ILE:C	1:M:556:SER:H	2.13	0.51
1:O:36:PRO:O	1:O:39:ILE:HG22	2.10	0.51
1:O:365:TYR:O	1:O:368:MET:N	2.21	0.51
1:P:343:HIS:O	1:P:344:VAL:C	2.46	0.51
1:P:661:ASN:OD1	1:P:662:GLN:N	2.43	0.51
1:P:912:ASP:OD2	1:P:921:CYS:SG	2.68	0.51
1:A:557:LYS:CB	1:A:1226:TYR:CE1	2.87	0.51
1:B:488:ARG:HA	1:B:491:PHE:H	1.75	0.51
1:B:625:LEU:HD22	1:B:629:GLN:HA	1.92	0.51
1:B:661:ASN:OD1	1:B:662:GLN:N	2.44	0.51
1:B:994:HIS:HE1	1:B:1023:ILE:HG23	1.75	0.51
1:C:115:ASN:HB3	1:D:257:ASN:HD21	1.75	0.51
1:C:488:ARG:HA	1:C:491:PHE:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:286:ASP:OD1	1:D:287:HIS:N	2.44	0.51
1:D:661:ASN:OD1	1:D:662:GLN:N	2.43	0.51
1:D:994:HIS:HE1	1:D:1023:ILE:HG23	1.75	0.51
1:F:373:SER:HB3	1:F:433:LEU:CG	2.40	0.51
1:F:480:HIS:HB2	1:F:481:PRO:HD3	1.92	0.51
1:G:479:GLU:HB3	1:G:482:GLU:HB3	1.92	0.51
1:H:553:LEU:HB3	1:H:556:SER:HG	1.75	0.51
1:H:836:VAL:HG21	1:H:876:LEU:HD22	1.91	0.51
1:I:63:TRP:CZ3	1:I:126:SER:HB2	2.45	0.51
1:I:557:LYS:CB	1:I:1226:TYR:CE1	2.87	0.51
1:I:994:HIS:HE1	1:I:1023:ILE:HG23	1.75	0.51
1:K:661:ASN:OD1	1:K:662:GLN:N	2.44	0.51
1:L:554:ILE:C	1:L:556:SER:H	2.13	0.51
1:M:373:SER:HB3	1:M:433:LEU:CG	2.40	0.51
1:M:625:LEU:HD22	1:M:629:GLN:HA	1.92	0.51
1:M:661:ASN:OD1	1:M:662:GLN:N	2.43	0.51
1:N:631:LEU:H	1:N:646:ARG:HB3	1.74	0.51
1:O:120:PHE:HZ	1:O:162:LEU:HB2	1.73	0.51
1:O:631:LEU:HD22	1:O:680:LEU:HD22	1.91	0.51
1:O:836:VAL:HG21	1:O:876:LEU:HD22	1.91	0.51
1:B:63:TRP:CZ3	1:B:126:SER:HB2	2.45	0.51
1:B:375:PHE:CD2	1:B:381:ILE:HG12	2.45	0.51
1:C:479:GLU:HB3	1:C:482:GLU:HB3	1.92	0.51
1:C:625:LEU:HD22	1:C:629:GLN:HA	1.92	0.51
1:E:631:LEU:H	1:E:646:ARG:HB3	1.74	0.51
1:E:994:HIS:HE1	1:E:1023:ILE:HG23	1.75	0.51
1:F:63:TRP:CZ3	1:F:126:SER:HB2	2.45	0.51
1:F:368:MET:HA	1:F:390:TRP:HE1	1.73	0.51
1:G:431:VAL:HB	1:G:432:LYS:HB2	1.93	0.51
1:H:183:LEU:HD11	1:H:256:PHE:HE2	1.75	0.51
1:I:368:MET:HA	1:I:390:TRP:HE1	1.73	0.51
1:I:631:LEU:H	1:I:646:ARG:HB3	1.74	0.51
1:K:286:ASP:OD1	1:K:287:HIS:N	2.44	0.51
1:K:386:LEU:HD12	1:K:420:ILE:HD13	1.90	0.51
1:K:743:ILE:HG22	1:K:762:LYS:HA	1.91	0.51
1:K:994:HIS:HE1	1:K:1023:ILE:HG23	1.76	0.51
1:L:63:TRP:CZ3	1:L:126:SER:HB2	2.45	0.51
1:L:492:LEU:HD11	1:L:561:LEU:CD2	2.40	0.51
1:L:625:LEU:HD22	1:L:629:GLN:HA	1.92	0.51
1:L:631:LEU:H	1:L:646:ARG:HB3	1.74	0.51
1:M:375:PHE:CD2	1:M:381:ILE:HG12	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:450:PRO:HG2	1:M:471:ILE:HD11	1.90	0.51
1:M:488:ARG:HA	1:M:491:PHE:H	1.75	0.51
1:M:994:HIS:HE1	1:M:1023:ILE:HG23	1.75	0.51
1:N:36:PRO:O	1:N:39:ILE:HG22	2.10	0.51
1:O:183:LEU:HD11	1:O:256:PHE:HE2	1.75	0.51
1:O:625:LEU:HD22	1:O:629:GLN:HA	1.92	0.51
1:P:375:PHE:CD2	1:P:381:ILE:HG12	2.45	0.51
1:P:431:VAL:HB	1:P:432:LYS:HB2	1.93	0.51
1:A:36:PRO:O	1:A:39:ILE:HG22	2.10	0.51
1:A:307:CYS:HB3	1:A:311:ASP:OD2	2.11	0.51
1:A:554:ILE:C	1:A:556:SER:H	2.13	0.51
1:A:631:LEU:H	1:A:646:ARG:HB3	1.74	0.51
1:A:994:HIS:HE1	1:A:1023:ILE:HG23	1.75	0.51
1:B:373:SER:HB3	1:B:433:LEU:CG	2.40	0.51
1:B:450:PRO:HG2	1:B:471:ILE:HD11	1.90	0.51
1:B:557:LYS:CB	1:B:1226:TYR:CE1	2.87	0.51
1:C:301:LEU:CD2	1:C:313:PRO:CG	2.87	0.51
1:C:554:ILE:C	1:C:556:SER:H	2.13	0.51
1:C:836:VAL:HG21	1:C:876:LEU:HD22	1.91	0.51
1:C:912:ASP:OD2	1:C:921:CYS:SG	2.68	0.51
1:D:386:LEU:HD12	1:D:420:ILE:HD13	1.90	0.51
1:E:661:ASN:OD1	1:E:662:GLN:N	2.44	0.51
1:F:631:LEU:H	1:F:646:ARG:HB3	1.74	0.51
1:G:307:CYS:HB3	1:G:311:ASP:OD2	2.11	0.51
1:G:375:PHE:CD2	1:G:381:ILE:HG12	2.45	0.51
1:H:120:PHE:HZ	1:H:162:LEU:HB2	1.73	0.51
1:H:480:HIS:HB2	1:H:481:PRO:HD3	1.93	0.51
1:H:625:LEU:HD22	1:H:629:GLN:HA	1.92	0.51
1:I:253:TRP:CH2	1:I:262:ILE:HD11	2.46	0.51
1:I:480:HIS:HB2	1:I:481:PRO:HD3	1.93	0.51
1:I:492:LEU:HD11	1:I:561:LEU:CD2	2.40	0.51
1:J:286:ASP:OD1	1:J:287:HIS:N	2.44	0.51
1:J:467:PHE:HD1	1:J:471:ILE:HD12	1.75	0.51
1:J:631:LEU:H	1:J:646:ARG:HB3	1.74	0.51
1:J:661:ASN:OD1	1:J:662:GLN:N	2.43	0.51
1:J:994:HIS:HE1	1:J:1023:ILE:HG23	1.75	0.51
1:M:557:LYS:CB	1:M:1226:TYR:CE1	2.87	0.51
1:N:554:ILE:C	1:N:556:SER:H	2.13	0.51
1:N:994:HIS:HE1	1:N:1023:ILE:HG23	1.75	0.51
1:O:480:HIS:HB2	1:O:481:PRO:HD3	1.93	0.51
1:O:638:GLU:OE1	1:O:640:GLU:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:307:CYS:HB3	1:P:311:ASP:OD2	2.11	0.51
1:A:248:GLN:CD	1:A:268:PHE:CE2	2.74	0.51
1:A:253:TRP:CH2	1:A:262:ILE:HD11	2.46	0.51
1:B:162:LEU:O	1:B:165:CYS:N	2.43	0.51
1:B:394:ILE:HD12	1:B:395:LYS:HE3	1.91	0.51
1:B:397:ASP:O	1:B:401:VAL:N	2.28	0.51
1:B:511:SER:C	1:B:513:SER:N	2.60	0.51
1:B:901:HIS:CG	1:B:902:ILE:H	2.29	0.51
1:C:63:TRP:CZ3	1:C:126:SER:HB2	2.45	0.51
1:C:307:CYS:HB3	1:C:311:ASP:OD2	2.11	0.51
1:D:183:LEU:HD11	1:D:256:PHE:HE2	1.75	0.51
1:D:373:SER:HB3	1:D:433:LEU:CG	2.40	0.51
1:D:551:GLU:HB3	1:D:605:LEU:O	2.11	0.51
1:D:743:ILE:HG22	1:D:762:LYS:HA	1.91	0.51
1:D:901:HIS:CG	1:D:902:ILE:H	2.29	0.51
1:E:286:ASP:OD1	1:E:287:HIS:N	2.44	0.51
1:F:467:PHE:HD1	1:F:471:ILE:HD12	1.75	0.51
1:F:492:LEU:HD11	1:F:561:LEU:CD2	2.40	0.51
1:G:901:HIS:CG	1:G:902:ILE:H	2.29	0.51
1:H:253:TRP:CH2	1:H:262:ILE:HD11	2.46	0.51
1:H:365:TYR:O	1:H:368:MET:N	2.21	0.51
1:H:638:GLU:OE1	1:H:640:GLU:N	2.42	0.51
1:I:467:PHE:HD1	1:I:471:ILE:HD12	1.75	0.51
1:I:901:HIS:CG	1:I:902:ILE:H	2.29	0.51
1:K:183:LEU:HD11	1:K:256:PHE:HE2	1.75	0.51
1:K:551:GLU:HB3	1:K:605:LEU:O	2.11	0.51
1:K:901:HIS:CG	1:K:902:ILE:H	2.29	0.51
1:L:307:CYS:HB3	1:L:311:ASP:OD2	2.11	0.51
1:M:162:LEU:O	1:M:165:CYS:N	2.43	0.51
1:M:463:LEU:HD22	1:M:467:PHE:HD2	1.74	0.51
1:M:901:HIS:CG	1:M:902:ILE:H	2.29	0.51
1:N:253:TRP:CH2	1:N:262:ILE:HD11	2.46	0.51
1:N:307:CYS:HB3	1:N:311:ASP:OD2	2.11	0.51
1:O:253:TRP:CH2	1:O:262:ILE:HD11	2.46	0.51
1:P:479:GLU:HB3	1:P:482:GLU:HB3	1.92	0.51
1:A:883:ILE:HA	1:A:898:VAL:HB	1.92	0.51
1:B:120:PHE:HZ	1:B:162:LEU:HB2	1.73	0.51
1:B:463:LEU:HD22	1:B:467:PHE:HD2	1.74	0.51
1:B:836:VAL:HG21	1:B:876:LEU:HD22	1.91	0.51
1:B:883:ILE:HA	1:B:898:VAL:HB	1.92	0.51
1:C:286:ASP:OD1	1:C:287:HIS:N	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:162:LEU:O	1:E:165:CYS:N	2.43	0.51
1:E:467:PHE:HD1	1:E:471:ILE:HD12	1.75	0.51
1:F:253:TRP:CH2	1:F:262:ILE:HD11	2.46	0.51
1:F:386:LEU:HD21	1:F:390:TRP:HZ3	1.75	0.51
1:F:458:LEU:CG	1:F:587:ARG:NH2	2.74	0.51
1:F:557:LYS:CB	1:F:1226:TYR:CE1	2.87	0.51
1:F:616:LEU:HD23	1:F:620:PHE:HB2	1.91	0.51
1:F:901:HIS:CG	1:F:902:ILE:H	2.29	0.51
1:F:916:LYS:HE3	1:G:1177:TYR:CE2	2.42	0.51
1:G:63:TRP:CZ3	1:G:126:SER:HB2	2.45	0.51
1:G:541:ALA:O	1:G:544:ASP:N	2.30	0.51
1:G:631:LEU:H	1:G:646:ARG:HB3	1.74	0.51
1:G:638:GLU:OE1	1:G:640:GLU:N	2.42	0.51
1:H:463:LEU:HD22	1:H:467:PHE:HD2	1.74	0.51
1:I:551:GLU:HB3	1:I:605:LEU:O	2.11	0.51
1:J:162:LEU:O	1:J:165:CYS:N	2.43	0.51
1:K:222:HIS:CD2	1:L:198:LYS:HZ1	2.27	0.51
1:K:431:VAL:HB	1:K:432:LYS:HB2	1.93	0.51
1:L:386:LEU:HD21	1:L:390:TRP:HZ3	1.75	0.51
1:L:463:LEU:CD2	1:L:467:PHE:CD2	2.92	0.51
1:L:488:ARG:HA	1:L:491:PHE:H	1.75	0.51
1:M:394:ILE:HD12	1:M:395:LYS:HE3	1.91	0.51
1:N:557:LYS:CB	1:N:1226:TYR:CE1	2.87	0.51
1:O:463:LEU:HD22	1:O:467:PHE:HD2	1.74	0.51
1:P:467:PHE:HD1	1:P:471:ILE:HD12	1.75	0.51
1:P:541:ALA:O	1:P:544:ASP:N	2.30	0.51
1:P:638:GLU:OE1	1:P:640:GLU:N	2.42	0.51
1:P:901:HIS:CG	1:P:902:ILE:H	2.29	0.51
1:B:183:LEU:HD11	1:B:256:PHE:HE2	1.75	0.51
1:D:63:TRP:CZ3	1:D:126:SER:HB2	2.45	0.51
1:D:187:ASN:HA	1:D:249:ASN:ND2	2.23	0.51
1:E:479:GLU:HB3	1:E:482:GLU:HB3	1.92	0.51
1:F:551:GLU:HB3	1:F:605:LEU:O	2.11	0.51
1:F:994:HIS:HE1	1:F:1023:ILE:HG23	1.75	0.51
1:G:253:TRP:CH2	1:G:262:ILE:HD11	2.46	0.51
1:G:467:PHE:HD1	1:G:471:ILE:HD12	1.76	0.51
1:H:64:THR:O	1:H:67:SER:OG	2.27	0.51
1:H:994:HIS:HE1	1:H:1023:ILE:HG23	1.75	0.51
1:I:386:LEU:HD21	1:I:390:TRP:HZ3	1.76	0.51
1:I:431:VAL:HB	1:I:432:LYS:HB2	1.93	0.51
1:I:458:LEU:CG	1:I:587:ARG:NH2	2.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:313:PRO:HA	1:J:338:TRP:HH2	1.63	0.51
1:J:479:GLU:HB3	1:J:482:GLU:HB3	1.92	0.51
1:K:63:TRP:CZ3	1:K:126:SER:HB2	2.45	0.51
1:K:187:ASN:HA	1:K:249:ASN:ND2	2.23	0.51
1:K:373:SER:HB3	1:K:433:LEU:CG	2.40	0.51
1:L:286:ASP:OD1	1:L:287:HIS:N	2.44	0.51
1:L:479:GLU:HB3	1:L:482:GLU:HB3	1.92	0.51
1:L:661:ASN:OD1	1:L:662:GLN:N	2.44	0.51
1:M:120:PHE:HZ	1:M:162:LEU:HB2	1.73	0.51
1:M:183:LEU:HD11	1:M:256:PHE:HE2	1.75	0.51
1:M:286:ASP:OD1	1:M:287:HIS:N	2.44	0.51
1:M:397:ASP:O	1:M:401:VAL:N	2.28	0.51
1:M:883:ILE:HA	1:M:898:VAL:HB	1.92	0.51
1:N:231:LEU:O	1:N:234:SER:OG	2.26	0.51
1:N:883:ILE:HA	1:N:898:VAL:HB	1.92	0.51
1:O:553:LEU:HB3	1:O:556:SER:HG	1.76	0.51
1:P:63:TRP:CZ3	1:P:126:SER:HB2	2.45	0.51
1:P:253:TRP:CH2	1:P:262:ILE:HD11	2.46	0.51
1:P:631:LEU:H	1:P:646:ARG:HB3	1.74	0.51
1:A:231:LEU:O	1:A:234:SER:OG	2.26	0.51
1:A:551:GLU:HB3	1:A:605:LEU:O	2.11	0.51
1:A:631:LEU:HD22	1:A:680:LEU:HD22	1.91	0.51
1:B:286:ASP:OD1	1:B:287:HIS:N	2.44	0.51
1:C:386:LEU:HD21	1:C:390:TRP:HZ3	1.76	0.51
1:D:91:PRO:O	1:D:94:THR:OG1	2.21	0.51
1:D:122:LYS:HG3	1:E:276:SER:OG	2.11	0.51
1:D:162:LEU:O	1:D:165:CYS:N	2.43	0.51
1:D:431:VAL:HB	1:D:432:LYS:HB2	1.93	0.51
1:D:467:PHE:HD1	1:D:471:ILE:HD12	1.75	0.51
1:D:916:LYS:HE2	1:E:1177:TYR:CE2	2.43	0.51
1:F:248:GLN:NE2	1:F:268:PHE:CZ	2.79	0.51
1:G:183:LEU:HD11	1:G:256:PHE:HE2	1.75	0.51
1:G:386:LEU:HD21	1:G:390:TRP:HZ3	1.76	0.51
1:H:554:ILE:C	1:H:556:SER:H	2.13	0.51
1:I:286:ASP:OD1	1:I:287:HIS:N	2.44	0.51
1:I:661:ASN:OD1	1:I:662:GLN:N	2.43	0.51
1:J:64:THR:O	1:J:67:SER:OG	2.27	0.51
1:K:162:LEU:O	1:K:165:CYS:N	2.43	0.51
1:K:554:ILE:C	1:K:556:SER:H	2.13	0.51
1:M:253:TRP:CH2	1:M:262:ILE:HD11	2.46	0.51
1:M:511:SER:C	1:M:513:SER:N	2.60	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:836:VAL:HG21	1:M:876:LEU:HD22	1.91	0.51
1:N:551:GLU:HB3	1:N:605:LEU:O	2.11	0.51
1:N:631:LEU:HD22	1:N:680:LEU:HD22	1.91	0.51
1:O:554:ILE:C	1:O:556:SER:H	2.13	0.51
1:O:994:HIS:HE1	1:O:1023:ILE:HG23	1.75	0.51
1:A:375:PHE:CD2	1:A:381:ILE:HG12	2.45	0.51
1:C:661:ASN:OD1	1:C:662:GLN:N	2.44	0.51
1:D:488:ARG:HA	1:D:491:PHE:H	1.75	0.51
1:E:307:CYS:HB3	1:E:311:ASP:OD2	2.11	0.51
1:E:431:VAL:HB	1:E:432:LYS:HB2	1.93	0.51
1:G:248:GLN:NE2	1:G:268:PHE:CZ	2.79	0.51
1:H:551:GLU:HB3	1:H:605:LEU:O	2.11	0.51
1:I:248:GLN:NE2	1:I:268:PHE:CZ	2.79	0.51
1:K:91:PRO:O	1:K:94:THR:OG1	2.22	0.51
1:K:488:ARG:HA	1:K:491:PHE:H	1.75	0.51
1:L:994:HIS:HE1	1:L:1023:ILE:HG23	1.75	0.51
1:N:375:PHE:CD2	1:N:381:ILE:HG12	2.45	0.51
1:O:467:PHE:HD1	1:O:471:ILE:HD12	1.75	0.51
1:O:551:GLU:HB3	1:O:605:LEU:O	2.11	0.51
1:P:183:LEU:HD11	1:P:256:PHE:HE2	1.75	0.51
1:P:386:LEU:HD21	1:P:390:TRP:HZ3	1.76	0.51
1:B:253:TRP:CH2	1:B:262:ILE:HD11	2.46	0.51
1:B:479:GLU:HB3	1:B:482:GLU:HB3	1.92	0.51
1:C:463:LEU:CD2	1:C:467:PHE:CD2	2.92	0.51
1:C:994:HIS:HE1	1:C:1023:ILE:HG23	1.75	0.51
1:E:346:CYS:O	1:E:350:THR:N	2.25	0.51
1:E:551:GLU:HB3	1:E:605:LEU:O	2.11	0.51
1:E:883:ILE:HA	1:E:898:VAL:HB	1.92	0.51
1:F:286:ASP:OD1	1:F:287:HIS:N	2.44	0.51
1:F:431:VAL:HB	1:F:432:LYS:HB2	1.93	0.51
1:F:518:LEU:HD22	1:F:643:TYR:CE1	2.22	0.51
1:F:661:ASN:OD1	1:F:662:GLN:N	2.44	0.51
1:F:901:HIS:CD2	1:F:902:ILE:H	2.29	0.51
1:G:492:LEU:HD11	1:G:561:LEU:CD2	2.40	0.51
1:H:705:PHE:HB3	1:H:706:ILE:HD12	1.93	0.51
1:I:479:GLU:HB3	1:I:482:GLU:HB3	1.92	0.51
1:I:616:LEU:HD23	1:I:620:PHE:HB2	1.91	0.51
1:I:901:HIS:CD2	1:I:902:ILE:H	2.29	0.51
1:J:307:CYS:HB3	1:J:311:ASP:OD2	2.11	0.51
1:J:386:LEU:HD21	1:J:390:TRP:HZ3	1.75	0.51
1:J:431:VAL:HB	1:J:432:LYS:HB2	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:539:VAL:O	1:J:543:LEU:HG	2.11	0.51
1:J:551:GLU:HB3	1:J:605:LEU:O	2.11	0.51
1:K:467:PHE:HD1	1:K:471:ILE:HD12	1.75	0.51
1:M:479:GLU:HB3	1:M:482:GLU:HB3	1.92	0.51
1:N:286:ASP:OD1	1:N:287:HIS:N	2.44	0.51
1:O:386:LEU:HD21	1:O:390:TRP:HZ3	1.75	0.51
1:P:187:ASN:HA	1:P:249:ASN:ND2	2.23	0.51
1:P:248:GLN:NE2	1:P:268:PHE:CZ	2.79	0.51
1:P:492:LEU:HD11	1:P:561:LEU:CD2	2.40	0.51
1:A:63:TRP:CZ3	1:A:126:SER:HB2	2.45	0.50
1:A:480:HIS:HB2	1:A:481:PRO:HD3	1.93	0.50
1:A:539:VAL:O	1:A:543:LEU:HG	2.12	0.50
1:B:301:LEU:CD2	1:B:313:PRO:CG	2.87	0.50
1:B:307:CYS:HB3	1:B:311:ASP:OD2	2.11	0.50
1:C:183:LEU:HD11	1:C:256:PHE:HE2	1.75	0.50
1:D:554:ILE:C	1:D:556:SER:H	2.13	0.50
1:E:248:GLN:NE2	1:E:268:PHE:CZ	2.79	0.50
1:E:386:LEU:HD21	1:E:390:TRP:HZ3	1.76	0.50
1:E:539:VAL:O	1:E:543:LEU:HG	2.12	0.50
1:F:539:VAL:O	1:F:543:LEU:HG	2.12	0.50
1:G:187:ASN:HA	1:G:249:ASN:ND2	2.23	0.50
1:H:286:ASP:OD1	1:H:287:HIS:N	2.44	0.50
1:H:488:ARG:HA	1:H:491:PHE:H	1.75	0.50
1:H:883:ILE:HA	1:H:898:VAL:HB	1.92	0.50
1:I:378:SER:H	1:I:422:ILE:HD13	1.62	0.50
1:I:539:VAL:O	1:I:543:LEU:HG	2.11	0.50
1:L:183:LEU:HD11	1:L:256:PHE:HE2	1.75	0.50
1:N:539:VAL:O	1:N:543:LEU:HG	2.11	0.50
1:O:479:GLU:HB3	1:O:482:GLU:HB3	1.92	0.50
1:O:488:ARG:HA	1:O:491:PHE:H	1.75	0.50
1:O:705:PHE:HB3	1:O:706:ILE:HD12	1.93	0.50
1:O:883:ILE:HA	1:O:898:VAL:HB	1.92	0.50
1:P:152:VAL:O	1:P:155:SER:OG	2.29	0.50
1:P:921:CYS:HA	1:P:930:HIS:O	2.11	0.50
1:P:994:HIS:HE1	1:P:1023:ILE:HG23	1.75	0.50
1:A:286:ASP:OD1	1:A:287:HIS:N	2.44	0.50
1:A:479:GLU:HB3	1:A:482:GLU:HB3	1.92	0.50
1:B:386:LEU:HD21	1:B:390:TRP:HZ3	1.75	0.50
1:D:458:LEU:CG	1:D:587:ARG:NH2	2.74	0.50
1:D:479:GLU:HB3	1:D:482:GLU:HB3	1.92	0.50
1:D:631:LEU:H	1:D:646:ARG:HB3	1.74	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:14:ASP:OD2	1:F:142:ARG:NH1	2.44	0.50
1:E:488:ARG:HA	1:E:491:PHE:H	1.75	0.50
1:F:554:ILE:C	1:F:556:SER:H	2.13	0.50
1:F:705:PHE:HB3	1:F:706:ILE:HD12	1.94	0.50
1:G:317:LEU:C	1:G:318:THR:HG1	1.96	0.50
1:G:994:HIS:HE1	1:G:1023:ILE:HG23	1.75	0.50
1:H:386:LEU:HD21	1:H:390:TRP:HZ3	1.75	0.50
1:H:467:PHE:HD1	1:H:471:ILE:HD12	1.75	0.50
1:H:539:VAL:O	1:H:543:LEU:HG	2.11	0.50
1:H:901:HIS:CG	1:H:902:ILE:H	2.29	0.50
1:I:488:ARG:HA	1:I:491:PHE:H	1.75	0.50
1:J:248:GLN:NE2	1:J:268:PHE:CZ	2.79	0.50
1:J:488:ARG:HA	1:J:491:PHE:H	1.75	0.50
1:J:538:LEU:HD12	1:J:571:GLU:HG2	1.94	0.50
1:K:307:CYS:HB3	1:K:311:ASP:OD2	2.11	0.50
1:K:631:LEU:H	1:K:646:ARG:HB3	1.74	0.50
1:K:921:CYS:HA	1:K:930:HIS:O	2.11	0.50
1:L:253:TRP:CH2	1:L:262:ILE:HD11	2.46	0.50
1:M:301:LEU:CD2	1:M:313:PRO:CG	2.87	0.50
1:M:307:CYS:HB3	1:M:311:ASP:OD2	2.11	0.50
1:N:63:TRP:CZ3	1:N:126:SER:HB2	2.45	0.50
1:N:479:GLU:HB3	1:N:482:GLU:HB3	1.92	0.50
1:O:130:PRO:HA	1:O:290:MET:HE3	1.92	0.50
1:O:286:ASP:OD1	1:O:287:HIS:N	2.44	0.50
1:O:1058:ILE:HG13	1:O:1059:ASP:N	2.27	0.50
1:P:554:ILE:C	1:P:556:SER:H	2.13	0.50
1:A:99:PRO:HB2	1:A:104:ARG:HG3	1.93	0.50
1:C:463:LEU:HD22	1:C:467:PHE:HD2	1.74	0.50
1:D:253:TRP:CH2	1:D:262:ILE:HD11	2.46	0.50
1:D:307:CYS:HB3	1:D:311:ASP:OD2	2.11	0.50
1:E:313:PRO:HA	1:E:338:TRP:HH2	1.63	0.50
1:E:538:LEU:HD12	1:E:571:GLU:HG2	1.94	0.50
1:E:554:ILE:C	1:E:556:SER:H	2.13	0.50
1:F:488:ARG:HA	1:F:491:PHE:H	1.75	0.50
1:G:554:ILE:C	1:G:556:SER:H	2.13	0.50
1:G:921:CYS:HA	1:G:930:HIS:O	2.11	0.50
1:H:373:SER:HB3	1:H:433:LEU:CG	2.40	0.50
1:H:479:GLU:HB3	1:H:482:GLU:HB3	1.92	0.50
1:H:538:LEU:HD12	1:H:571:GLU:HG2	1.94	0.50
1:H:1058:ILE:HG13	1:H:1059:ASP:N	2.27	0.50
1:I:705:PHE:HB3	1:I:706:ILE:HD12	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:883:ILE:HA	1:J:898:VAL:HB	1.92	0.50
1:K:458:LEU:CG	1:K:587:ARG:NH2	2.74	0.50
1:K:479:GLU:HB3	1:K:482:GLU:HB3	1.92	0.50
1:N:480:HIS:HB2	1:N:481:PRO:HD3	1.93	0.50
1:O:492:LEU:HD11	1:O:561:LEU:CD2	2.40	0.50
1:O:538:LEU:HD12	1:O:571:GLU:HG2	1.94	0.50
1:O:539:VAL:O	1:O:543:LEU:HG	2.12	0.50
1:O:901:HIS:CG	1:O:902:ILE:H	2.29	0.50
1:A:222:HIS:CG	1:H:198:LYS:NZ	2.79	0.50
1:A:553:LEU:HB3	1:A:556:SER:HG	1.76	0.50
1:A:916:LYS:CE	1:B:1177:TYR:CE2	2.93	0.50
1:B:551:GLU:HB3	1:B:605:LEU:O	2.11	0.50
1:C:551:GLU:HB3	1:C:605:LEU:O	2.11	0.50
1:D:921:CYS:HA	1:D:930:HIS:O	2.11	0.50
1:G:286:ASP:OD1	1:G:287:HIS:N	2.44	0.50
1:G:539:VAL:O	1:G:543:LEU:HG	2.12	0.50
1:H:492:LEU:HD11	1:H:561:LEU:CD2	2.40	0.50
1:I:518:LEU:HD22	1:I:643:TYR:CE1	2.22	0.50
1:K:253:TRP:CH2	1:K:262:ILE:HD11	2.46	0.50
1:K:492:LEU:HD11	1:K:561:LEU:CD2	2.40	0.50
1:M:386:LEU:HD21	1:M:390:TRP:HZ3	1.75	0.50
1:M:551:GLU:HB3	1:M:605:LEU:O	2.11	0.50
1:N:99:PRO:HB2	1:N:104:ARG:HG3	1.93	0.50
1:N:313:PRO:HA	1:N:338:TRP:HH2	1.63	0.50
1:N:553:LEU:HB3	1:N:556:SER:HG	1.75	0.50
1:O:307:CYS:HB3	1:O:311:ASP:OD2	2.11	0.50
1:O:373:SER:HB3	1:O:433:LEU:CG	2.40	0.50
1:P:130:PRO:HA	1:P:290:MET:HE1	1.91	0.50
1:P:317:LEU:C	1:P:318:THR:HG1	1.96	0.50
1:P:1240:LEU:HD12	1:P:1250:SER:HB2	1.93	0.50
1:A:313:PRO:HA	1:A:338:TRP:HH2	1.63	0.50
1:A:901:HIS:CD2	1:A:902:ILE:H	2.29	0.50
1:B:467:PHE:HD1	1:B:471:ILE:HD12	1.75	0.50
1:B:638:GLU:OE1	1:B:640:GLU:N	2.42	0.50
1:C:478:ILE:HG22	1:C:479:GLU:H	1.77	0.50
1:C:883:ILE:HA	1:C:898:VAL:HB	1.92	0.50
1:D:478:ILE:HG22	1:D:479:GLU:H	1.77	0.50
1:D:492:LEU:HD11	1:D:561:LEU:CD2	2.40	0.50
1:D:1058:ILE:HG13	1:D:1059:ASP:N	2.27	0.50
1:E:705:PHE:HB3	1:E:706:ILE:HD12	1.93	0.50
1:E:901:HIS:CD2	1:E:902:ILE:H	2.29	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:901:HIS:CG	1:E:902:ILE:H	2.29	0.50
1:F:479:GLU:HB3	1:F:482:GLU:HB3	1.92	0.50
1:F:538:LEU:HD12	1:F:571:GLU:HG2	1.94	0.50
1:F:1240:LEU:HD12	1:F:1250:SER:HB2	1.93	0.50
1:G:130:PRO:HA	1:G:290:MET:HE1	1.91	0.50
1:G:538:LEU:HG	1:G:571:GLU:CG	2.42	0.50
1:H:307:CYS:HB3	1:H:311:ASP:OD2	2.11	0.50
1:H:478:ILE:HG22	1:H:479:GLU:H	1.77	0.50
1:H:557:LYS:CB	1:H:1226:TYR:CE1	2.87	0.50
1:H:901:HIS:CD2	1:H:902:ILE:H	2.29	0.50
1:I:554:ILE:C	1:I:556:SER:H	2.13	0.50
1:J:231:LEU:O	1:J:234:SER:OG	2.26	0.50
1:J:492:LEU:HD11	1:J:561:LEU:CD2	2.40	0.50
1:J:705:PHE:HB3	1:J:706:ILE:HD12	1.93	0.50
1:K:478:ILE:HG22	1:K:479:GLU:H	1.77	0.50
1:L:478:ILE:HG22	1:L:479:GLU:H	1.77	0.50
1:L:1058:ILE:HG13	1:L:1059:ASP:N	2.27	0.50
1:M:91:PRO:O	1:M:94:THR:OG1	2.22	0.50
1:M:467:PHE:HD1	1:M:471:ILE:HD12	1.75	0.50
1:N:901:HIS:CD2	1:N:902:ILE:H	2.29	0.50
1:O:478:ILE:HG22	1:O:479:GLU:H	1.77	0.50
1:P:286:ASP:OD1	1:P:287:HIS:N	2.44	0.50
1:P:539:VAL:O	1:P:543:LEU:HG	2.12	0.50
1:P:551:GLU:HB3	1:P:605:LEU:O	2.11	0.50
1:P:883:ILE:HA	1:P:898:VAL:HB	1.92	0.50
1:A:431:VAL:HB	1:A:432:LYS:HB2	1.93	0.50
1:A:488:ARG:HA	1:A:491:PHE:H	1.75	0.50
1:A:538:LEU:HD12	1:A:571:GLU:HG2	1.94	0.50
1:B:91:PRO:O	1:B:94:THR:OG1	2.22	0.50
1:B:99:PRO:HB2	1:B:104:ARG:HG3	1.93	0.50
1:C:253:TRP:CH2	1:C:262:ILE:HD11	2.46	0.50
1:C:1058:ILE:HG13	1:C:1059:ASP:N	2.27	0.50
1:D:275:LEU:HD23	1:D:280:THR:HG21	1.93	0.50
1:E:99:PRO:HB2	1:E:104:ARG:HG3	1.93	0.50
1:E:114:TYR:O	1:E:117:ASN:N	2.36	0.50
1:E:538:LEU:HG	1:E:571:GLU:CG	2.42	0.50
1:F:511:SER:C	1:F:513:SER:N	2.60	0.50
1:G:480:HIS:HB2	1:G:481:PRO:HD3	1.92	0.50
1:G:551:GLU:HB3	1:G:605:LEU:O	2.11	0.50
1:G:883:ILE:HA	1:G:898:VAL:HB	1.92	0.50
1:G:1240:LEU:HD12	1:G:1250:SER:HB2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:248:GLN:NE2	1:H:268:PHE:CZ	2.79	0.50
1:I:478:ILE:HG22	1:I:479:GLU:H	1.77	0.50
1:I:638:GLU:OE1	1:I:640:GLU:N	2.42	0.50
1:J:114:TYR:O	1:J:117:ASN:N	2.36	0.50
1:J:253:TRP:CH2	1:J:262:ILE:HD11	2.46	0.50
1:J:901:HIS:CD2	1:J:902:ILE:H	2.29	0.50
1:J:901:HIS:CG	1:J:902:ILE:H	2.29	0.50
1:K:988:ASP:OD1	1:K:989:SER:N	2.43	0.50
1:K:1058:ILE:HG13	1:K:1059:ASP:N	2.27	0.50
1:L:551:GLU:HB3	1:L:605:LEU:O	2.11	0.50
1:M:99:PRO:HB2	1:M:104:ARG:HG3	1.93	0.50
1:M:480:HIS:HB2	1:M:481:PRO:HD3	1.93	0.50
1:N:431:VAL:HB	1:N:432:LYS:HB2	1.93	0.50
1:N:538:LEU:HD12	1:N:571:GLU:HG2	1.94	0.50
1:N:921:CYS:HA	1:N:930:HIS:O	2.11	0.50
1:O:248:GLN:NE2	1:O:268:PHE:CZ	2.79	0.50
1:O:901:HIS:CD2	1:O:902:ILE:H	2.29	0.50
1:P:538:LEU:HG	1:P:571:GLU:CG	2.42	0.50
1:P:863:THR:HA	1:P:907:ILE:HG13	1.93	0.50
1:A:458:LEU:HG	1:A:587:ARG:HH21	1.77	0.50
1:C:539:VAL:O	1:C:543:LEU:HG	2.12	0.50
1:C:604:ASN:ND2	1:C:929:VAL:H	2.04	0.50
1:C:863:THR:HA	1:C:907:ILE:HG13	1.94	0.50
1:D:988:ASP:OD1	1:D:989:SER:N	2.43	0.50
1:E:492:LEU:HD11	1:E:561:LEU:CD2	2.40	0.50
1:G:863:THR:HA	1:G:907:ILE:HG13	1.94	0.50
1:H:921:CYS:HA	1:H:930:HIS:O	2.11	0.50
1:I:1240:LEU:HD12	1:I:1250:SER:HB2	1.93	0.50
1:J:99:PRO:HB2	1:J:104:ARG:HG3	1.93	0.50
1:J:538:LEU:HG	1:J:571:GLU:CG	2.42	0.50
1:J:554:ILE:C	1:J:556:SER:H	2.13	0.50
1:K:275:LEU:HD23	1:K:280:THR:HG21	1.93	0.50
1:K:539:VAL:O	1:K:543:LEU:HG	2.11	0.50
1:M:638:GLU:OE1	1:M:640:GLU:N	2.42	0.50
1:M:1240:LEU:HD12	1:M:1250:SER:HB2	1.93	0.50
1:N:458:LEU:HG	1:N:587:ARG:HH21	1.77	0.50
1:O:382:PRO:HA	1:O:419:THR:CG2	2.36	0.50
1:O:538:LEU:HD21	1:O:573:ILE:HD11	1.94	0.50
1:O:548:LYS:HZ2	1:O:601:GLN:H	1.56	0.50
1:P:705:PHE:HB3	1:P:706:ILE:HD12	1.93	0.50
1:A:492:LEU:HD11	1:A:561:LEU:CD2	2.40	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:921:CYS:HA	1:A:930:HIS:O	2.11	0.50
1:B:248:GLN:NE2	1:B:268:PHE:CZ	2.79	0.50
1:B:480:HIS:HB2	1:B:481:PRO:HD3	1.93	0.50
1:B:518:LEU:HD12	1:B:518:LEU:N	2.20	0.50
1:B:539:VAL:O	1:B:543:LEU:HG	2.12	0.50
1:B:921:CYS:HA	1:B:930:HIS:O	2.11	0.50
1:B:1058:ILE:HG13	1:B:1059:ASP:N	2.27	0.50
1:B:1240:LEU:HD12	1:B:1250:SER:HB2	1.93	0.50
1:C:901:HIS:CG	1:C:902:ILE:H	2.29	0.50
1:D:20:GLU:O	1:D:23:PHE:N	2.45	0.50
1:D:480:HIS:HB2	1:D:481:PRO:HD3	1.92	0.50
1:D:705:PHE:HB3	1:D:706:ILE:HD12	1.93	0.50
1:E:253:TRP:CH2	1:E:262:ILE:HD11	2.46	0.50
1:E:507:ALA:N	1:E:608:ASN:HB2	2.27	0.50
1:E:921:CYS:HA	1:E:930:HIS:O	2.11	0.50
1:F:863:THR:HA	1:F:907:ILE:HG13	1.93	0.50
1:G:705:PHE:HB3	1:G:706:ILE:HD12	1.93	0.50
1:G:901:HIS:CD2	1:G:902:ILE:H	2.29	0.50
1:H:275:LEU:HD23	1:H:280:THR:HG21	1.94	0.50
1:H:538:LEU:HD21	1:H:573:ILE:HD11	1.94	0.50
1:I:99:PRO:HB2	1:I:104:ARG:HG3	1.93	0.50
1:I:307:CYS:HB3	1:I:311:ASP:OD2	2.11	0.50
1:J:20:GLU:O	1:J:23:PHE:N	2.45	0.50
1:J:507:ALA:N	1:J:608:ASN:HB2	2.27	0.50
1:J:921:CYS:HA	1:J:930:HIS:O	2.11	0.50
1:J:1058:ILE:HG13	1:J:1059:ASP:N	2.27	0.50
1:K:480:HIS:HB2	1:K:481:PRO:HD3	1.92	0.50
1:K:705:PHE:HB3	1:K:706:ILE:HD12	1.94	0.50
1:L:64:THR:O	1:L:67:SER:OG	2.27	0.50
1:L:480:HIS:HB2	1:L:481:PRO:HD3	1.93	0.50
1:M:248:GLN:NE2	1:M:268:PHE:CZ	2.79	0.50
1:M:458:LEU:HG	1:M:587:ARG:HH21	1.77	0.50
1:M:539:VAL:O	1:M:543:LEU:HG	2.12	0.50
1:M:1058:ILE:HG13	1:M:1059:ASP:N	2.27	0.50
1:N:488:ARG:HA	1:N:491:PHE:H	1.75	0.50
1:N:492:LEU:HD11	1:N:561:LEU:CD2	2.40	0.50
1:O:64:THR:O	1:O:67:SER:OG	2.27	0.50
1:O:275:LEU:HD23	1:O:280:THR:HG21	1.94	0.50
1:O:557:LYS:CB	1:O:1226:TYR:CE1	2.87	0.50
1:O:921:CYS:HA	1:O:930:HIS:O	2.11	0.50
1:P:480:HIS:HB2	1:P:481:PRO:HD3	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:901:HIS:CD2	1:P:902:ILE:H	2.29	0.50
1:A:275:LEU:HD23	1:A:280:THR:HG21	1.93	0.50
1:A:1058:ILE:HG13	1:A:1059:ASP:N	2.27	0.50
1:B:458:LEU:HG	1:B:587:ARG:HH21	1.77	0.50
1:C:20:GLU:O	1:C:23:PHE:N	2.45	0.50
1:C:480:HIS:HB2	1:C:481:PRO:HD3	1.93	0.50
1:D:463:LEU:CD2	1:D:467:PHE:CD2	2.92	0.50
1:D:539:VAL:O	1:D:543:LEU:HG	2.11	0.50
1:D:541:ALA:O	1:D:544:ASP:N	2.30	0.50
1:E:20:GLU:O	1:E:23:PHE:N	2.45	0.50
1:E:231:LEU:O	1:E:234:SER:OG	2.26	0.50
1:E:541:ALA:O	1:E:544:ASP:N	2.30	0.50
1:F:99:PRO:HB2	1:F:104:ARG:HG3	1.93	0.50
1:F:651:SER:O	1:F:654:ILE:HG23	2.12	0.50
1:G:1058:ILE:HG13	1:G:1059:ASP:N	2.27	0.50
1:H:20:GLU:O	1:H:23:PHE:N	2.45	0.50
1:H:382:PRO:HA	1:H:419:THR:CG2	2.36	0.50
1:H:548:LYS:HZ2	1:H:601:GLN:H	1.56	0.50
1:I:538:LEU:HD12	1:I:571:GLU:HG2	1.94	0.50
1:I:863:THR:HA	1:I:907:ILE:HG13	1.93	0.50
1:J:541:ALA:O	1:J:544:ASP:N	2.30	0.50
1:J:1240:LEU:HD12	1:J:1250:SER:HB2	1.93	0.50
1:K:20:GLU:O	1:K:23:PHE:N	2.45	0.50
1:K:563:ARG:HH11	1:K:593:HIS:HA	1.77	0.50
1:L:431:VAL:HB	1:L:432:LYS:HB2	1.93	0.50
1:L:863:THR:HA	1:L:907:ILE:HG13	1.93	0.50
1:L:883:ILE:HA	1:L:898:VAL:HB	1.92	0.50
1:M:518:LEU:HD12	1:M:518:LEU:N	2.20	0.50
1:M:553:LEU:HB3	1:M:556:SER:HG	1.76	0.50
1:M:705:PHE:HB3	1:M:706:ILE:HD12	1.93	0.50
1:M:901:HIS:CD2	1:M:902:ILE:H	2.29	0.50
1:M:921:CYS:HA	1:M:930:HIS:O	2.11	0.50
1:N:152:VAL:O	1:N:155:SER:OG	2.29	0.50
1:N:1058:ILE:HG13	1:N:1059:ASP:N	2.27	0.50
1:O:20:GLU:O	1:O:23:PHE:N	2.45	0.50
1:A:563:ARG:HH11	1:A:593:HIS:HA	1.77	0.49
1:B:538:LEU:HD12	1:B:571:GLU:HG2	1.94	0.49
1:B:901:HIS:CD2	1:B:902:ILE:H	2.29	0.49
1:C:198:LYS:NZ	1:D:222:HIS:CG	2.80	0.49
1:C:248:GLN:NE2	1:C:268:PHE:CZ	2.79	0.49
1:D:507:ALA:N	1:D:608:ASN:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:563:ARG:HH11	1:D:593:HIS:HA	1.78	0.49
1:E:478:ILE:HG22	1:E:479:GLU:H	1.77	0.49
1:E:518:LEU:HD22	1:E:643:TYR:CE1	2.22	0.49
1:E:563:ARG:HH11	1:E:593:HIS:HA	1.77	0.49
1:E:1058:ILE:HG13	1:E:1059:ASP:N	2.27	0.49
1:E:1240:LEU:HD12	1:E:1250:SER:HB2	1.93	0.49
1:F:307:CYS:HB3	1:F:311:ASP:OD2	2.11	0.49
1:F:478:ILE:HG22	1:F:479:GLU:H	1.77	0.49
1:F:538:LEU:HD21	1:F:573:ILE:HD11	1.94	0.49
1:I:20:GLU:O	1:I:23:PHE:N	2.45	0.49
1:I:538:LEU:HD21	1:I:573:ILE:HD11	1.94	0.49
1:I:651:SER:O	1:I:654:ILE:HG23	2.12	0.49
1:J:651:SER:O	1:J:654:ILE:HG23	2.12	0.49
1:K:248:GLN:NE2	1:K:268:PHE:CZ	2.79	0.49
1:K:463:LEU:CD2	1:K:467:PHE:CD2	2.92	0.49
1:K:538:LEU:HD12	1:K:571:GLU:HG2	1.93	0.49
1:N:275:LEU:HD23	1:N:280:THR:HG21	1.94	0.49
1:N:301:LEU:CD2	1:N:313:PRO:CG	2.87	0.49
1:N:563:ARG:HH11	1:N:593:HIS:HA	1.77	0.49
1:O:130:PRO:HA	1:O:290:MET:HE1	1.93	0.49
1:O:431:VAL:HB	1:O:432:LYS:HB2	1.93	0.49
1:O:507:ALA:N	1:O:608:ASN:HB2	2.27	0.49
1:P:275:LEU:HD23	1:P:280:THR:HG21	1.93	0.49
1:P:538:LEU:HG	1:P:571:GLU:CD	2.33	0.49
1:P:1058:ILE:HG13	1:P:1059:ASP:N	2.27	0.49
1:A:511:SER:C	1:A:513:SER:N	2.60	0.49
1:B:553:LEU:HB3	1:B:556:SER:HG	1.75	0.49
1:B:705:PHE:HB3	1:B:706:ILE:HD12	1.94	0.49
1:C:518:LEU:HD12	1:C:518:LEU:N	2.20	0.49
1:C:1240:LEU:HD12	1:C:1250:SER:HB2	1.93	0.49
1:D:99:PRO:HB2	1:D:104:ARG:HG3	1.93	0.49
1:D:248:GLN:HE22	1:D:268:PHE:HZ	1.61	0.49
1:D:248:GLN:NE2	1:D:268:PHE:CZ	2.79	0.49
1:E:651:SER:O	1:E:654:ILE:HG23	2.12	0.49
1:E:863:THR:HA	1:E:907:ILE:HG13	1.93	0.49
1:F:248:GLN:HE22	1:F:268:PHE:HZ	1.60	0.49
1:G:162:LEU:HD23	1:G:180:TRP:CH2	2.48	0.49
1:G:275:LEU:HD23	1:G:280:THR:HG21	1.94	0.49
1:G:538:LEU:HG	1:G:571:GLU:CD	2.33	0.49
1:H:507:ALA:N	1:H:608:ASN:HB2	2.27	0.49
1:I:563:ARG:HH11	1:I:593:HIS:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:921:CYS:HA	1:I:930:HIS:O	2.11	0.49
1:J:563:ARG:HH11	1:J:593:HIS:HA	1.77	0.49
1:J:863:THR:HA	1:J:907:ILE:HG13	1.94	0.49
1:K:99:PRO:HB2	1:K:104:ARG:HG3	1.93	0.49
1:K:248:GLN:HE22	1:K:268:PHE:HZ	1.61	0.49
1:K:507:ALA:N	1:K:608:ASN:HB2	2.27	0.49
1:L:463:LEU:HD22	1:L:467:PHE:HD2	1.74	0.49
1:L:539:VAL:O	1:L:543:LEU:HG	2.12	0.49
1:M:431:VAL:HB	1:M:432:LYS:HB2	1.93	0.49
1:M:538:LEU:HD12	1:M:571:GLU:HG2	1.94	0.49
1:N:20:GLU:O	1:N:23:PHE:N	2.45	0.49
1:N:705:PHE:HB3	1:N:706:ILE:HD12	1.93	0.49
1:O:515:LEU:HD12	1:O:517:THR:H	1.78	0.49
1:P:557:LYS:CB	1:P:1226:TYR:CE1	2.87	0.49
1:A:152:VAL:O	1:A:155:SER:OG	2.29	0.49
1:A:162:LEU:HD23	1:A:180:TRP:CH2	2.48	0.49
1:A:248:GLN:NE2	1:A:268:PHE:CZ	2.79	0.49
1:A:301:LEU:CD2	1:A:313:PRO:CG	2.87	0.49
1:A:347:ASP:OD1	1:A:348:LYS:N	2.37	0.49
1:A:901:HIS:CG	1:A:902:ILE:H	2.29	0.49
1:A:1240:LEU:HD12	1:A:1250:SER:HB2	1.93	0.49
1:B:162:LEU:HD23	1:B:180:TRP:CH2	2.48	0.49
1:B:556:SER:O	1:B:557:LYS:HB2	2.13	0.49
1:C:64:THR:O	1:C:67:SER:OG	2.27	0.49
1:C:431:VAL:HB	1:C:432:LYS:HB2	1.93	0.49
1:C:504:ASP:CG	1:C:509:ASN:O	2.51	0.49
1:C:563:ARG:HH11	1:C:593:HIS:HA	1.77	0.49
1:C:1252:ALA:HB1	1:C:1256:CYS:HB2	1.95	0.49
1:D:538:LEU:HD12	1:D:571:GLU:HG2	1.94	0.49
1:E:248:GLN:HE22	1:E:268:PHE:HZ	1.60	0.49
1:E:538:LEU:HG	1:E:571:GLU:CD	2.33	0.49
1:F:20:GLU:O	1:F:23:PHE:N	2.45	0.49
1:F:162:LEU:HD23	1:F:180:TRP:CH2	2.48	0.49
1:F:541:ALA:O	1:F:544:ASP:N	2.30	0.49
1:F:563:ARG:HH11	1:F:593:HIS:HA	1.77	0.49
1:G:488:ARG:HA	1:G:491:PHE:H	1.75	0.49
1:G:538:LEU:HD12	1:G:571:GLU:HG2	1.94	0.49
1:G:557:LYS:CB	1:G:1226:TYR:CE1	2.87	0.49
1:G:660:PHE:HZ	1:G:731:GLN:HG3	1.78	0.49
1:J:478:ILE:HG22	1:J:479:GLU:H	1.77	0.49
1:K:293:THR:O	1:K:296:GLU:N	2.40	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:20:GLU:O	1:L:23:PHE:N	2.45	0.49
1:L:275:LEU:HD23	1:L:280:THR:HG21	1.93	0.49
1:L:293:THR:O	1:L:296:GLU:N	2.40	0.49
1:L:563:ARG:HH11	1:L:593:HIS:HA	1.78	0.49
1:L:604:ASN:ND2	1:L:929:VAL:H	2.04	0.49
1:L:651:SER:O	1:L:654:ILE:HG23	2.12	0.49
1:L:705:PHE:HB3	1:L:706:ILE:HD12	1.93	0.49
1:L:901:HIS:CD2	1:L:902:ILE:H	2.29	0.49
1:L:901:HIS:CG	1:L:902:ILE:H	2.29	0.49
1:L:1252:ALA:HB1	1:L:1256:CYS:HB2	1.94	0.49
1:M:162:LEU:HD23	1:M:180:TRP:CH2	2.48	0.49
1:M:556:SER:O	1:M:557:LYS:HB2	2.13	0.49
1:N:511:SER:C	1:N:513:SER:N	2.60	0.49
1:N:556:SER:O	1:N:557:LYS:HB2	2.13	0.49
1:O:99:PRO:HB2	1:O:104:ARG:HG3	1.93	0.49
1:O:162:LEU:HD23	1:O:180:TRP:CH2	2.48	0.49
1:P:162:LEU:HD23	1:P:180:TRP:CH2	2.48	0.49
1:A:20:GLU:O	1:A:23:PHE:N	2.45	0.49
1:A:556:SER:O	1:A:557:LYS:HB2	2.13	0.49
1:A:705:PHE:HB3	1:A:706:ILE:HD12	1.93	0.49
1:B:431:VAL:HB	1:B:432:LYS:HB2	1.93	0.49
1:C:248:GLN:HE22	1:C:268:PHE:HZ	1.60	0.49
1:C:275:LEU:HD23	1:C:280:THR:HG21	1.94	0.49
1:C:293:THR:O	1:C:296:GLU:N	2.40	0.49
1:D:221:ILE:HG13	1:D:222:HIS:N	2.28	0.49
1:D:882:LEU:HB2	1:D:901:HIS:CE1	2.48	0.49
1:D:1240:LEU:HD12	1:D:1250:SER:HB2	1.93	0.49
1:F:221:ILE:HG13	1:F:222:HIS:N	2.28	0.49
1:F:921:CYS:HA	1:F:930:HIS:O	2.11	0.49
1:G:450:PRO:O	1:G:452:THR:N	2.46	0.49
1:G:458:LEU:CG	1:G:587:ARG:NH2	2.74	0.49
1:H:162:LEU:HD23	1:H:180:TRP:CH2	2.48	0.49
1:H:431:VAL:HB	1:H:432:LYS:HB2	1.93	0.49
1:I:221:ILE:HG13	1:I:222:HIS:N	2.28	0.49
1:J:187:ASN:HA	1:J:249:ASN:ND2	2.24	0.49
1:J:221:ILE:HG13	1:J:222:HIS:N	2.28	0.49
1:J:248:GLN:HE22	1:J:268:PHE:HZ	1.61	0.49
1:J:538:LEU:HG	1:J:571:GLU:CD	2.33	0.49
1:K:221:ILE:HG13	1:K:222:HIS:N	2.28	0.49
1:K:882:LEU:HB2	1:K:901:HIS:CE1	2.48	0.49
1:L:248:GLN:HE22	1:L:268:PHE:HZ	1.61	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:504:ASP:CG	1:L:509:ASN:O	2.51	0.49
1:L:1240:LEU:HD12	1:L:1250:SER:HB2	1.93	0.49
1:M:450:PRO:O	1:M:452:THR:N	2.46	0.49
1:N:162:LEU:HD23	1:N:180:TRP:CH2	2.48	0.49
1:N:901:HIS:CG	1:N:902:ILE:H	2.29	0.49
1:O:556:SER:O	1:O:557:LYS:HB2	2.13	0.49
1:P:488:ARG:HA	1:P:491:PHE:H	1.75	0.49
1:P:538:LEU:HD12	1:P:571:GLU:HG2	1.94	0.49
1:P:660:PHE:HZ	1:P:731:GLN:HG3	1.78	0.49
1:A:651:SER:O	1:A:654:ILE:HG23	2.12	0.49
1:B:450:PRO:O	1:B:452:THR:N	2.46	0.49
1:B:563:ARG:HH11	1:B:593:HIS:HA	1.77	0.49
1:C:538:LEU:HD12	1:C:571:GLU:HG2	1.94	0.49
1:C:901:HIS:CD2	1:C:902:ILE:H	2.29	0.49
1:C:946:ARG:HG3	1:C:947:GLU:N	2.28	0.49
1:D:293:THR:O	1:D:296:GLU:N	2.40	0.49
1:D:504:ASP:CG	1:D:509:ASN:O	2.51	0.49
1:D:515:LEU:HD12	1:D:517:THR:H	1.78	0.49
1:D:901:HIS:CD2	1:D:902:ILE:H	2.29	0.49
1:E:187:ASN:HA	1:E:249:ASN:ND2	2.23	0.49
1:G:248:GLN:HE22	1:G:268:PHE:HZ	1.61	0.49
1:G:507:ALA:N	1:G:608:ASN:HB2	2.27	0.49
1:G:517:THR:HA	1:G:520:GLN:CG	2.43	0.49
1:G:882:LEU:HB2	1:G:901:HIS:CE1	2.48	0.49
1:H:99:PRO:HB2	1:H:104:ARG:HG3	1.93	0.49
1:H:511:SER:HB3	1:H:645:LEU:HD21	1.94	0.49
1:H:556:SER:O	1:H:557:LYS:HB2	2.13	0.49
1:I:162:LEU:HD23	1:I:180:TRP:CH2	2.48	0.49
1:I:248:GLN:HE22	1:I:268:PHE:HZ	1.61	0.49
1:I:511:SER:C	1:I:513:SER:N	2.60	0.49
1:J:480:HIS:HB2	1:J:481:PRO:HD3	1.93	0.49
1:K:504:ASP:CG	1:K:509:ASN:O	2.51	0.49
1:K:541:ALA:O	1:K:544:ASP:N	2.30	0.49
1:K:901:HIS:CD2	1:K:902:ILE:H	2.30	0.49
1:K:1240:LEU:HD12	1:K:1250:SER:HB2	1.93	0.49
1:L:538:LEU:HD12	1:L:571:GLU:HG2	1.94	0.49
1:M:988:ASP:OD1	1:M:989:SER:N	2.43	0.49
1:N:507:ALA:N	1:N:608:ASN:HB2	2.27	0.49
1:N:651:SER:O	1:N:654:ILE:HG23	2.12	0.49
1:N:1240:LEU:HD12	1:N:1250:SER:HB2	1.93	0.49
1:O:187:ASN:HA	1:O:249:ASN:ND2	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:946:ARG:HG3	1:O:947:GLU:N	2.28	0.49
1:P:221:ILE:HG13	1:P:222:HIS:N	2.28	0.49
1:P:248:GLN:HE22	1:P:268:PHE:HZ	1.61	0.49
1:P:450:PRO:O	1:P:452:THR:N	2.46	0.49
1:P:458:LEU:CG	1:P:587:ARG:NH2	2.74	0.49
1:P:507:ALA:N	1:P:608:ASN:HB2	2.27	0.49
1:P:517:THR:HA	1:P:520:GLN:CG	2.43	0.49
1:P:563:ARG:HH11	1:P:593:HIS:HA	1.77	0.49
1:P:882:LEU:HB2	1:P:901:HIS:CE1	2.48	0.49
1:A:450:PRO:O	1:A:452:THR:N	2.46	0.49
1:A:507:ALA:N	1:A:608:ASN:HB2	2.27	0.49
1:A:517:THR:HA	1:A:520:GLN:CG	2.43	0.49
1:B:64:THR:O	1:B:67:SER:OG	2.27	0.49
1:B:478:ILE:HG22	1:B:479:GLU:H	1.77	0.49
1:B:507:ALA:N	1:B:608:ASN:HB2	2.27	0.49
1:B:517:THR:HA	1:B:520:GLN:CG	2.43	0.49
1:B:660:PHE:HZ	1:B:731:GLN:HG3	1.78	0.49
1:B:863:THR:HA	1:B:907:ILE:HG13	1.93	0.49
1:B:988:ASP:OD1	1:B:989:SER:N	2.43	0.49
1:C:507:ALA:N	1:C:608:ASN:HB2	2.27	0.49
1:C:517:THR:HA	1:C:520:GLN:CG	2.43	0.49
1:E:221:ILE:HG13	1:E:222:HIS:N	2.28	0.49
1:E:480:HIS:HB2	1:E:481:PRO:HD3	1.93	0.49
1:E:1252:ALA:HB1	1:E:1256:CYS:HB2	1.94	0.49
1:F:175:ASP:O	1:F:177:LYS:HG2	2.13	0.49
1:F:337:THR:C	1:F:339:ASP:H	2.16	0.49
1:F:882:LEU:HB2	1:F:901:HIS:CE1	2.48	0.49
1:G:99:PRO:HB2	1:G:104:ARG:HG3	1.93	0.49
1:G:221:ILE:HG13	1:G:222:HIS:N	2.28	0.49
1:G:451:LYS:CD	1:G:486:LEU:HD21	2.33	0.49
1:H:504:ASP:CG	1:H:509:ASN:O	2.51	0.49
1:H:515:LEU:HD12	1:H:517:THR:H	1.78	0.49
1:H:651:SER:O	1:H:654:ILE:HG23	2.12	0.49
1:I:538:LEU:HG	1:I:571:GLU:CG	2.42	0.49
1:I:1058:ILE:HG13	1:I:1059:ASP:N	2.27	0.49
1:K:515:LEU:HD12	1:K:517:THR:H	1.78	0.49
1:K:604:ASN:ND2	1:K:929:VAL:H	2.04	0.49
1:L:162:LEU:HD23	1:L:180:TRP:CH2	2.48	0.49
1:M:398:VAL:HG23	1:M:399:MET:N	2.28	0.49
1:M:478:ILE:HG22	1:M:479:GLU:H	1.77	0.49
1:M:507:ALA:N	1:M:608:ASN:HB2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:563:ARG:HH11	1:M:593:HIS:HA	1.77	0.49
1:M:660:PHE:HZ	1:M:731:GLN:HG3	1.78	0.49
1:M:863:THR:HA	1:M:907:ILE:HG13	1.93	0.49
1:N:347:ASP:OD1	1:N:348:LYS:N	2.37	0.49
1:O:863:THR:HA	1:O:907:ILE:HG13	1.93	0.49
1:A:187:ASN:HA	1:A:249:ASN:ND2	2.23	0.49
1:A:346:CYS:O	1:A:350:THR:N	2.25	0.49
1:A:478:ILE:HG22	1:A:479:GLU:H	1.77	0.49
1:A:863:THR:HA	1:A:907:ILE:HG13	1.93	0.49
1:B:346:CYS:O	1:B:350:THR:N	2.25	0.49
1:B:398:VAL:HG23	1:B:399:MET:N	2.28	0.49
1:C:99:PRO:HB2	1:C:104:ARG:HG3	1.93	0.49
1:C:162:LEU:HD23	1:C:180:TRP:CH2	2.48	0.49
1:C:651:SER:O	1:C:654:ILE:HG23	2.12	0.49
1:D:604:ASN:ND2	1:D:929:VAL:H	2.04	0.49
1:D:651:SER:O	1:D:654:ILE:HG23	2.12	0.49
1:F:275:LEU:HD23	1:F:280:THR:HG21	1.93	0.49
1:F:346:CYS:O	1:F:350:THR:N	2.25	0.49
1:F:443:ILE:HG21	1:F:477:ASN:ND2	2.24	0.49
1:F:517:THR:HA	1:F:520:GLN:CG	2.43	0.49
1:G:563:ARG:HH11	1:G:593:HIS:HA	1.78	0.49
1:G:946:ARG:HG3	1:G:947:GLU:N	2.28	0.49
1:H:187:ASN:HA	1:H:249:ASN:ND2	2.23	0.49
1:H:248:GLN:HE22	1:H:268:PHE:HZ	1.61	0.49
1:H:337:THR:HG1	1:H:340:ASN:H	1.61	0.49
1:H:863:THR:HA	1:H:907:ILE:HG13	1.93	0.49
1:H:946:ARG:HG3	1:H:947:GLU:N	2.28	0.49
1:H:1240:LEU:HD12	1:H:1250:SER:HB2	1.93	0.49
1:I:175:ASP:O	1:I:177:LYS:HG2	2.13	0.49
1:I:275:LEU:HD23	1:I:280:THR:HG21	1.94	0.49
1:I:517:THR:HA	1:I:520:GLN:CG	2.43	0.49
1:I:882:LEU:HB2	1:I:901:HIS:CE1	2.48	0.49
1:J:1252:ALA:HB1	1:J:1256:CYS:HB2	1.95	0.49
1:K:651:SER:O	1:K:654:ILE:HG23	2.12	0.49
1:L:507:ALA:N	1:L:608:ASN:HB2	2.27	0.49
1:L:515:LEU:HD12	1:L:517:THR:H	1.78	0.49
1:L:517:THR:HA	1:L:520:GLN:CG	2.43	0.49
1:L:921:CYS:HA	1:L:930:HIS:O	2.11	0.49
1:M:517:THR:HA	1:M:520:GLN:CG	2.43	0.49
1:N:187:ASN:HA	1:N:249:ASN:ND2	2.24	0.49
1:N:450:PRO:O	1:N:452:THR:N	2.46	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:517:THR:HA	1:N:520:GLN:CG	2.43	0.49
1:O:504:ASP:CG	1:O:509:ASN:O	2.51	0.49
1:O:511:SER:HB3	1:O:645:LEU:HD21	1.95	0.49
1:O:517:THR:HA	1:O:520:GLN:CG	2.43	0.49
1:O:651:SER:O	1:O:654:ILE:HG23	2.12	0.49
1:P:99:PRO:HB2	1:P:104:ARG:HG3	1.93	0.49
1:P:946:ARG:HG3	1:P:947:GLU:N	2.28	0.49
1:A:248:GLN:HE22	1:A:268:PHE:HZ	1.60	0.49
1:B:248:GLN:HE22	1:B:268:PHE:HZ	1.61	0.49
1:B:946:ARG:HG3	1:B:947:GLU:N	2.28	0.49
1:C:921:CYS:HA	1:C:930:HIS:O	2.11	0.49
1:D:450:PRO:O	1:D:452:THR:N	2.46	0.49
1:E:660:PHE:HZ	1:E:731:GLN:HG3	1.78	0.49
1:F:122:LYS:HG2	1:G:276:SER:OG	2.13	0.49
1:F:450:PRO:O	1:F:452:THR:N	2.46	0.49
1:F:1058:ILE:HG13	1:F:1059:ASP:N	2.27	0.49
1:H:517:THR:HA	1:H:520:GLN:CG	2.43	0.49
1:I:198:LYS:NZ	1:P:222:HIS:CD2	2.81	0.49
1:I:507:ALA:N	1:I:608:ASN:HB2	2.27	0.49
1:I:541:ALA:O	1:I:544:ASP:N	2.30	0.49
1:J:337:THR:C	1:J:339:ASP:H	2.16	0.49
1:K:450:PRO:O	1:K:452:THR:N	2.46	0.49
1:L:99:PRO:HB2	1:L:104:ARG:HG3	1.93	0.49
1:L:1192:SER:OG	1:L:1208:GLU:OE2	2.28	0.49
1:M:221:ILE:HG13	1:M:222:HIS:N	2.28	0.49
1:O:248:GLN:HE22	1:O:268:PHE:HZ	1.61	0.49
1:O:538:LEU:HG	1:O:571:GLU:CD	2.33	0.49
1:P:451:LYS:CD	1:P:486:LEU:HD21	2.33	0.49
1:A:538:LEU:HG	1:A:571:GLU:CD	2.33	0.49
1:B:221:ILE:HG13	1:B:222:HIS:N	2.28	0.49
1:C:705:PHE:HB3	1:C:706:ILE:HD12	1.93	0.49
1:D:162:LEU:HD23	1:D:180:TRP:CH2	2.48	0.49
1:D:946:ARG:HG3	1:D:947:GLU:N	2.28	0.49
1:E:162:LEU:HD23	1:E:180:TRP:CH2	2.48	0.49
1:E:337:THR:C	1:E:339:ASP:H	2.16	0.49
1:E:462:TYR:CZ	1:E:467:PHE:HB3	2.48	0.49
1:F:462:TYR:CZ	1:F:467:PHE:HB3	2.48	0.49
1:F:504:ASP:CG	1:F:509:ASN:O	2.51	0.49
1:F:538:LEU:HG	1:F:571:GLU:CG	2.42	0.49
1:H:538:LEU:HG	1:H:571:GLU:CD	2.33	0.49
1:I:504:ASP:CG	1:I:509:ASN:O	2.51	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:518:LEU:HD12	1:I:518:LEU:N	2.20	0.49
1:I:523:PHE:HD1	1:I:527:TYR:CE2	2.28	0.49
1:K:162:LEU:HD23	1:K:180:TRP:CH2	2.48	0.49
1:L:248:GLN:NE2	1:L:268:PHE:CZ	2.79	0.49
1:L:538:LEU:HG	1:L:571:GLU:CD	2.33	0.49
1:L:946:ARG:HG3	1:L:947:GLU:N	2.28	0.49
1:M:248:GLN:HE22	1:M:268:PHE:HZ	1.61	0.49
1:M:275:LEU:HD23	1:M:280:THR:HG21	1.93	0.49
1:M:346:CYS:O	1:M:350:THR:N	2.25	0.49
1:N:248:GLN:NE2	1:N:268:PHE:CZ	2.79	0.49
1:N:478:ILE:HG22	1:N:479:GLU:H	1.77	0.49
1:N:538:LEU:HG	1:N:571:GLU:CD	2.33	0.49
1:O:337:THR:HG1	1:O:340:ASN:H	1.61	0.49
1:O:347:ASP:OD1	1:O:348:LYS:N	2.37	0.49
1:O:450:PRO:O	1:O:452:THR:N	2.46	0.49
1:O:882:LEU:HB2	1:O:901:HIS:CE1	2.48	0.49
1:A:511:SER:HB3	1:A:645:LEU:HD21	1.94	0.49
1:A:515:LEU:HD12	1:A:517:THR:H	1.78	0.49
1:B:20:GLU:O	1:B:23:PHE:N	2.45	0.49
1:B:275:LEU:HD23	1:B:280:THR:HG21	1.93	0.49
1:B:538:LEU:HD21	1:B:573:ILE:HD11	1.94	0.49
1:B:604:ASN:ND2	1:B:929:VAL:H	2.04	0.49
1:B:1252:ALA:HB1	1:B:1256:CYS:HB2	1.94	0.49
1:C:175:ASP:O	1:C:177:LYS:HG2	2.13	0.49
1:D:517:THR:HA	1:D:520:GLN:CG	2.43	0.49
1:D:660:PHE:HZ	1:D:731:GLN:HG3	1.78	0.49
1:D:863:THR:HA	1:D:907:ILE:HG13	1.93	0.49
1:E:517:THR:HA	1:E:520:GLN:CG	2.43	0.49
1:F:523:PHE:HD1	1:F:527:TYR:CE2	2.28	0.49
1:F:660:PHE:HZ	1:F:731:GLN:HG3	1.78	0.49
1:G:175:ASP:O	1:G:177:LYS:HG2	2.13	0.49
1:G:462:TYR:CZ	1:G:467:PHE:HB3	2.48	0.49
1:G:463:LEU:CD2	1:G:467:PHE:CD2	2.92	0.49
1:G:538:LEU:HD21	1:G:573:ILE:HD11	1.94	0.49
1:H:221:ILE:HG13	1:H:222:HIS:N	2.28	0.49
1:H:347:ASP:OD1	1:H:348:LYS:N	2.37	0.49
1:H:882:LEU:HB2	1:H:901:HIS:CE1	2.48	0.49
1:I:337:THR:C	1:I:339:ASP:H	2.16	0.49
1:I:450:PRO:O	1:I:452:THR:N	2.46	0.49
1:I:462:TYR:CZ	1:I:467:PHE:HB3	2.48	0.49
1:I:660:PHE:HZ	1:I:731:GLN:HG3	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:162:LEU:HD23	1:J:180:TRP:CH2	2.48	0.49
1:J:504:ASP:CG	1:J:509:ASN:O	2.51	0.49
1:J:517:THR:HA	1:J:520:GLN:CG	2.43	0.49
1:J:660:PHE:HZ	1:J:731:GLN:HG3	1.78	0.49
1:K:517:THR:HA	1:K:520:GLN:CG	2.43	0.49
1:K:660:PHE:HZ	1:K:731:GLN:HG3	1.78	0.49
1:K:946:ARG:HG3	1:K:947:GLU:N	2.28	0.49
1:M:538:LEU:HG	1:M:571:GLU:CG	2.42	0.49
1:M:538:LEU:HD21	1:M:573:ILE:HD11	1.94	0.49
1:M:946:ARG:HG3	1:M:947:GLU:N	2.28	0.49
1:M:1252:ALA:HB1	1:M:1256:CYS:HB2	1.94	0.49
1:N:248:GLN:HE22	1:N:268:PHE:HZ	1.61	0.49
1:N:504:ASP:CG	1:N:509:ASN:O	2.51	0.49
1:N:511:SER:HB3	1:N:645:LEU:HD21	1.94	0.49
1:N:515:LEU:HD12	1:N:517:THR:H	1.78	0.49
1:O:1240:LEU:HD12	1:O:1250:SER:HB2	1.93	0.49
1:P:175:ASP:O	1:P:177:LYS:HG2	2.13	0.49
1:P:462:TYR:CZ	1:P:467:PHE:HB3	2.48	0.49
1:P:511:SER:HB3	1:P:645:LEU:HD21	1.94	0.49
1:P:538:LEU:HD21	1:P:573:ILE:HD11	1.94	0.49
1:A:253:TRP:CZ3	1:A:262:ILE:HD11	2.48	0.48
1:A:462:TYR:CZ	1:A:467:PHE:HB3	2.48	0.48
1:A:504:ASP:CG	1:A:509:ASN:O	2.51	0.48
1:A:538:LEU:HG	1:A:571:GLU:CG	2.42	0.48
1:A:1252:ALA:HB1	1:A:1256:CYS:HB2	1.94	0.48
1:B:538:LEU:HG	1:B:571:GLU:CG	2.42	0.48
1:C:14:ASP:CG	1:D:142:ARG:HH12	2.15	0.48
1:C:515:LEU:HD12	1:C:517:THR:H	1.78	0.48
1:G:337:THR:HG1	1:G:340:ASN:H	1.61	0.48
1:G:478:ILE:HG22	1:G:479:GLU:H	1.77	0.48
1:G:511:SER:HB3	1:G:645:LEU:HD21	1.94	0.48
1:G:556:SER:O	1:G:557:LYS:HB2	2.13	0.48
1:H:175:ASP:O	1:H:177:LYS:HG2	2.13	0.48
1:H:450:PRO:O	1:H:452:THR:N	2.46	0.48
1:H:462:TYR:CZ	1:H:467:PHE:HB3	2.48	0.48
1:H:900:GLU:HB2	1:H:930:HIS:CD2	2.48	0.48
1:I:538:LEU:HG	1:I:571:GLU:CD	2.33	0.48
1:J:462:TYR:CZ	1:J:467:PHE:HB3	2.48	0.48
1:K:538:LEU:HG	1:K:571:GLU:CG	2.42	0.48
1:L:175:ASP:O	1:L:177:LYS:HG2	2.13	0.48
1:L:450:PRO:O	1:L:452:THR:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:20:GLU:O	1:M:23:PHE:N	2.45	0.48
1:M:604:ASN:ND2	1:M:929:VAL:H	2.04	0.48
1:N:253:TRP:CZ3	1:N:262:ILE:HD11	2.48	0.48
1:N:337:THR:HG1	1:N:340:ASN:H	1.61	0.48
1:N:346:CYS:O	1:N:350:THR:N	2.25	0.48
1:N:863:THR:HA	1:N:907:ILE:HG13	1.94	0.48
1:O:221:ILE:HG13	1:O:222:HIS:N	2.28	0.48
1:O:462:TYR:CZ	1:O:467:PHE:HB3	2.48	0.48
1:O:988:ASP:OD1	1:O:989:SER:N	2.43	0.48
1:P:463:LEU:CD2	1:P:467:PHE:CD2	2.92	0.48
1:P:478:ILE:HG22	1:P:479:GLU:H	1.77	0.48
1:A:900:GLU:HB2	1:A:930:HIS:CD2	2.48	0.48
1:B:253:TRP:CZ3	1:B:262:ILE:HD11	2.48	0.48
1:C:408:TYR:O	1:C:411:VAL:HG22	2.14	0.48
1:D:175:ASP:O	1:D:177:LYS:HG2	2.13	0.48
1:D:900:GLU:HB2	1:D:930:HIS:CD2	2.48	0.48
1:E:504:ASP:CG	1:E:509:ASN:O	2.51	0.48
1:E:636:SER:O	1:E:637:LEU:O	2.31	0.48
1:E:946:ARG:HG3	1:E:947:GLU:N	2.28	0.48
1:F:507:ALA:N	1:F:608:ASN:HB2	2.27	0.48
1:F:946:ARG:HG3	1:F:947:GLU:N	2.28	0.48
1:G:64:THR:O	1:G:67:SER:OG	2.27	0.48
1:G:651:SER:O	1:G:654:ILE:HG23	2.12	0.48
1:H:346:CYS:O	1:H:350:THR:N	2.25	0.48
1:H:408:TYR:O	1:H:411:VAL:HG22	2.13	0.48
1:H:538:LEU:HG	1:H:571:GLU:CG	2.42	0.48
1:H:660:PHE:HZ	1:H:731:GLN:HG3	1.78	0.48
1:I:64:THR:O	1:I:67:SER:OG	2.27	0.48
1:I:443:ILE:HG21	1:I:477:ASN:ND2	2.24	0.48
1:I:946:ARG:HG3	1:I:947:GLU:N	2.28	0.48
1:J:636:SER:O	1:J:637:LEU:O	2.31	0.48
1:K:175:ASP:O	1:K:177:LYS:HG2	2.13	0.48
1:K:863:THR:HA	1:K:907:ILE:HG13	1.93	0.48
1:K:900:GLU:HB2	1:K:930:HIS:CD2	2.48	0.48
1:L:408:TYR:O	1:L:411:VAL:HG22	2.14	0.48
1:L:518:LEU:HD12	1:L:518:LEU:N	2.20	0.48
1:N:462:TYR:CZ	1:N:467:PHE:HB3	2.48	0.48
1:N:538:LEU:HG	1:N:571:GLU:CG	2.42	0.48
1:N:660:PHE:HZ	1:N:731:GLN:HG3	1.78	0.48
1:N:882:LEU:HB2	1:N:901:HIS:CE1	2.48	0.48
1:N:900:GLU:HB2	1:N:930:HIS:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:175:ASP:O	1:O:177:LYS:HG2	2.13	0.48
1:P:20:GLU:O	1:P:23:PHE:N	2.45	0.48
1:A:660:PHE:HZ	1:A:731:GLN:HG3	1.78	0.48
1:B:293:THR:O	1:B:296:GLU:N	2.40	0.48
1:B:651:SER:O	1:B:654:ILE:HG23	2.12	0.48
1:C:462:TYR:CZ	1:C:467:PHE:HB3	2.48	0.48
1:C:511:SER:HB3	1:C:645:LEU:HD21	1.94	0.48
1:C:538:LEU:HG	1:C:571:GLU:CD	2.33	0.48
1:C:538:LEU:HG	1:C:571:GLU:CG	2.42	0.48
1:C:660:PHE:HZ	1:C:731:GLN:HG3	1.78	0.48
1:C:1192:SER:OG	1:C:1208:GLU:OE2	2.28	0.48
1:D:462:TYR:CZ	1:D:467:PHE:HB3	2.48	0.48
1:E:882:LEU:HB2	1:E:901:HIS:CE1	2.48	0.48
1:G:20:GLU:O	1:G:23:PHE:N	2.45	0.48
1:G:504:ASP:CG	1:G:509:ASN:O	2.51	0.48
1:J:275:LEU:HD23	1:J:280:THR:HG21	1.94	0.48
1:J:538:LEU:HD21	1:J:573:ILE:HD11	1.94	0.48
1:J:882:LEU:HB2	1:J:901:HIS:CE1	2.48	0.48
1:J:946:ARG:HG3	1:J:947:GLU:N	2.28	0.48
1:K:462:TYR:CZ	1:K:467:PHE:HB3	2.48	0.48
1:K:538:LEU:HD21	1:K:573:ILE:HD11	1.94	0.48
1:K:636:SER:O	1:K:637:LEU:O	2.31	0.48
1:M:253:TRP:CZ3	1:M:262:ILE:HD11	2.48	0.48
1:M:293:THR:O	1:M:296:GLU:N	2.40	0.48
1:M:462:TYR:CZ	1:M:467:PHE:HB3	2.48	0.48
1:M:651:SER:O	1:M:654:ILE:HG23	2.12	0.48
1:N:463:LEU:HD22	1:N:467:PHE:HD2	1.74	0.48
1:N:1252:ALA:HB1	1:N:1256:CYS:HB2	1.95	0.48
1:O:900:GLU:HB2	1:O:930:HIS:CD2	2.48	0.48
1:P:515:LEU:HD12	1:P:517:THR:H	1.78	0.48
1:P:556:SER:O	1:P:557:LYS:HB2	2.13	0.48
1:P:651:SER:O	1:P:654:ILE:HG23	2.12	0.48
1:P:900:GLU:HB2	1:P:930:HIS:CD2	2.48	0.48
1:A:337:THR:HG1	1:A:340:ASN:H	1.62	0.48
1:A:882:LEU:HB2	1:A:901:HIS:CE1	2.48	0.48
1:B:462:TYR:CZ	1:B:467:PHE:HB3	2.48	0.48
1:B:882:LEU:HB2	1:B:901:HIS:CE1	2.48	0.48
1:C:253:TRP:CZ3	1:C:262:ILE:HD11	2.48	0.48
1:C:900:GLU:HB2	1:C:930:HIS:CD2	2.48	0.48
1:D:253:TRP:CZ3	1:D:262:ILE:HD11	2.48	0.48
1:D:538:LEU:HG	1:D:571:GLU:CG	2.42	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:538:LEU:HD21	1:D:573:ILE:HD11	1.94	0.48
1:D:636:SER:O	1:D:637:LEU:O	2.31	0.48
1:E:175:ASP:O	1:E:177:LYS:HG2	2.13	0.48
1:E:654:ILE:HG22	1:E:670:HIS:HD2	1.79	0.48
1:F:64:THR:O	1:F:67:SER:OG	2.27	0.48
1:F:187:ASN:HA	1:F:249:ASN:ND2	2.23	0.48
1:F:538:LEU:HG	1:F:571:GLU:CD	2.33	0.48
1:G:337:THR:C	1:G:339:ASP:H	2.16	0.48
1:G:515:LEU:HD12	1:G:517:THR:H	1.78	0.48
1:G:900:GLU:HB2	1:G:930:HIS:CD2	2.48	0.48
1:H:563:ARG:HH11	1:H:593:HIS:HA	1.77	0.48
1:H:988:ASP:OD1	1:H:989:SER:N	2.43	0.48
1:I:187:ASN:HA	1:I:249:ASN:ND2	2.23	0.48
1:I:636:SER:O	1:I:637:LEU:O	2.31	0.48
1:I:654:ILE:HG22	1:I:670:HIS:HD2	1.78	0.48
1:J:398:VAL:HG23	1:J:399:MET:N	2.28	0.48
1:J:654:ILE:HG22	1:J:670:HIS:HD2	1.78	0.48
1:K:1252:ALA:HB1	1:K:1256:CYS:HB2	1.95	0.48
1:L:221:ILE:HG13	1:L:222:HIS:N	2.28	0.48
1:L:511:SER:HB3	1:L:645:LEU:HD21	1.94	0.48
1:L:882:LEU:HB2	1:L:901:HIS:CE1	2.48	0.48
1:M:337:THR:HG1	1:M:340:ASN:H	1.61	0.48
1:M:882:LEU:HB2	1:M:901:HIS:CE1	2.48	0.48
1:N:946:ARG:HG3	1:N:947:GLU:N	2.28	0.48
1:O:253:TRP:CZ3	1:O:264:LEU:HD11	2.48	0.48
1:O:408:TYR:O	1:O:411:VAL:HG22	2.14	0.48
1:O:538:LEU:HG	1:O:571:GLU:CG	2.42	0.48
1:O:563:ARG:HH11	1:O:593:HIS:HA	1.77	0.48
1:O:660:PHE:HZ	1:O:731:GLN:HG3	1.78	0.48
1:P:504:ASP:CG	1:P:509:ASN:O	2.51	0.48
1:A:946:ARG:HG3	1:A:947:GLU:N	2.28	0.48
1:B:324:LEU:HD12	1:B:324:LEU:HA	1.61	0.48
1:B:337:THR:HG1	1:B:340:ASN:H	1.61	0.48
1:B:515:LEU:HD12	1:B:517:THR:H	1.78	0.48
1:C:450:PRO:O	1:C:452:THR:N	2.46	0.48
1:D:408:TYR:O	1:D:411:VAL:HG22	2.14	0.48
1:D:1252:ALA:HB1	1:D:1256:CYS:HB2	1.94	0.48
1:E:275:LEU:HD23	1:E:280:THR:HG21	1.93	0.48
1:E:398:VAL:HG23	1:E:399:MET:N	2.28	0.48
1:E:515:LEU:HD12	1:E:517:THR:H	1.78	0.48
1:E:538:LEU:HD21	1:E:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:654:ILE:HG22	1:F:670:HIS:HD2	1.79	0.48
1:G:499:GLN:HG3	1:G:502:ARG:HB2	1.96	0.48
1:G:641:ASP:OD1	1:G:642:THR:N	2.45	0.48
1:H:247:VAL:HG21	1:H:264:LEU:HD22	1.96	0.48
1:H:253:TRP:CZ3	1:H:264:LEU:HD11	2.49	0.48
1:I:515:LEU:HD12	1:I:517:THR:H	1.78	0.48
1:J:175:ASP:O	1:J:177:LYS:HG2	2.13	0.48
1:J:515:LEU:HD12	1:J:517:THR:H	1.78	0.48
1:L:462:TYR:CZ	1:L:467:PHE:HB3	2.48	0.48
1:L:900:GLU:HB2	1:L:930:HIS:CD2	2.48	0.48
1:M:175:ASP:O	1:M:177:LYS:HG2	2.13	0.48
1:M:324:LEU:HD12	1:M:324:LEU:HA	1.61	0.48
1:N:221:ILE:HG13	1:N:222:HIS:N	2.28	0.48
1:N:538:LEU:HD21	1:N:573:ILE:HD11	1.94	0.48
1:O:499:GLN:HG3	1:O:502:ARG:HB2	1.96	0.48
1:P:337:THR:C	1:P:339:ASP:H	2.16	0.48
1:P:499:GLN:HG3	1:P:502:ARG:HB2	1.96	0.48
1:A:463:LEU:HD22	1:A:467:PHE:HD2	1.74	0.48
1:C:499:GLN:HG3	1:C:502:ARG:HB2	1.96	0.48
1:D:373:SER:CB	1:D:433:LEU:CD1	2.73	0.48
1:E:293:THR:O	1:E:296:GLU:N	2.40	0.48
1:E:450:PRO:O	1:E:452:THR:N	2.46	0.48
1:E:511:SER:HB3	1:E:645:LEU:HD21	1.95	0.48
1:F:636:SER:O	1:F:637:LEU:O	2.31	0.48
1:F:965:LEU:HD11	1:F:993:ILE:HG12	1.96	0.48
1:G:347:ASP:OD1	1:G:348:LYS:N	2.37	0.48
1:H:499:GLN:HG3	1:H:502:ARG:HB2	1.96	0.48
1:K:253:TRP:CZ3	1:K:262:ILE:HD11	2.48	0.48
1:K:408:TYR:O	1:K:411:VAL:HG22	2.14	0.48
1:K:556:SER:O	1:K:557:LYS:HB2	2.13	0.48
1:K:875:LEU:CD1	1:K:911:PHE:HD2	2.07	0.48
1:L:538:LEU:HG	1:L:571:GLU:CG	2.42	0.48
1:M:515:LEU:HD12	1:M:517:THR:H	1.78	0.48
1:M:654:ILE:HG22	1:M:670:HIS:HD2	1.78	0.48
1:O:247:VAL:HG21	1:O:264:LEU:HD22	1.96	0.48
1:P:347:ASP:OD1	1:P:348:LYS:N	2.37	0.48
1:P:463:LEU:HD22	1:P:467:PHE:HD2	1.74	0.48
1:P:641:ASP:OD1	1:P:642:THR:N	2.45	0.48
1:P:965:LEU:HD11	1:P:993:ILE:HG12	1.96	0.48
1:A:90:SER:OG	1:A:91:PRO:HD3	2.14	0.48
1:A:221:ILE:HG13	1:A:222:HIS:N	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:175:ASP:O	1:B:177:LYS:HG2	2.13	0.48
1:B:253:TRP:CZ3	1:B:264:LEU:HD11	2.49	0.48
1:B:408:TYR:O	1:B:411:VAL:HG22	2.14	0.48
1:B:654:ILE:HG22	1:B:670:HIS:HD2	1.78	0.48
1:C:221:ILE:HG13	1:C:222:HIS:N	2.28	0.48
1:C:882:LEU:HB2	1:C:901:HIS:CE1	2.48	0.48
1:D:556:SER:O	1:D:557:LYS:HB2	2.13	0.48
1:D:654:ILE:HG22	1:D:670:HIS:HD2	1.78	0.48
1:E:253:TRP:CZ3	1:E:262:ILE:HD11	2.48	0.48
1:E:458:LEU:CG	1:E:587:ARG:NH2	2.74	0.48
1:F:383:THR:O	1:F:386:LEU:HB3	2.14	0.48
1:F:499:GLN:HG3	1:F:502:ARG:HB2	1.96	0.48
1:G:965:LEU:HD11	1:G:993:ILE:HG12	1.96	0.48
1:I:317:LEU:O	1:I:318:THR:CB	2.61	0.48
1:I:346:CYS:O	1:I:350:THR:N	2.25	0.48
1:I:383:THR:O	1:I:386:LEU:HB3	2.14	0.48
1:J:293:THR:O	1:J:296:GLU:N	2.40	0.48
1:J:450:PRO:O	1:J:452:THR:N	2.46	0.48
1:J:511:SER:HB3	1:J:645:LEU:HD21	1.95	0.48
1:K:398:VAL:HG23	1:K:399:MET:N	2.28	0.48
1:L:187:ASN:HA	1:L:249:ASN:ND2	2.24	0.48
1:L:253:TRP:CZ3	1:L:262:ILE:HD11	2.48	0.48
1:L:499:GLN:HG3	1:L:502:ARG:HB2	1.96	0.48
1:L:636:SER:O	1:L:637:LEU:O	2.31	0.48
1:L:660:PHE:HZ	1:L:731:GLN:HG3	1.78	0.48
1:M:247:VAL:HG21	1:M:264:LEU:HD22	1.96	0.48
1:M:408:TYR:O	1:M:411:VAL:HG22	2.14	0.48
1:N:90:SER:OG	1:N:91:PRO:HD3	2.14	0.48
1:N:337:THR:C	1:N:339:ASP:H	2.16	0.48
1:N:499:GLN:HG3	1:N:502:ARG:HB2	1.96	0.48
1:O:346:CYS:O	1:O:350:THR:N	2.25	0.48
1:P:337:THR:HG1	1:P:340:ASN:H	1.61	0.48
1:A:175:ASP:O	1:A:177:LYS:HG2	2.13	0.48
1:A:499:GLN:HG3	1:A:502:ARG:HB2	1.96	0.48
1:B:247:VAL:HG21	1:B:264:LEU:HD22	1.96	0.48
1:B:499:GLN:HG3	1:B:502:ARG:HB2	1.96	0.48
1:B:511:SER:HB3	1:B:645:LEU:HD21	1.95	0.48
1:B:538:LEU:HG	1:B:571:GLU:CD	2.33	0.48
1:B:900:GLU:HB2	1:B:930:HIS:CD2	2.48	0.48
1:C:337:THR:C	1:C:339:ASP:H	2.16	0.48
1:C:538:LEU:HD21	1:C:573:ILE:HD11	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:654:ILE:HG22	1:C:670:HIS:HD2	1.78	0.48
1:D:499:GLN:HG3	1:D:502:ARG:HB2	1.96	0.48
1:D:875:LEU:CD1	1:D:911:PHE:HD2	2.07	0.48
1:E:121:ALA:CB	1:F:276:SER:CB	2.79	0.48
1:E:408:TYR:O	1:E:411:VAL:HG22	2.14	0.48
1:F:90:SER:OG	1:F:91:PRO:HD3	2.14	0.48
1:F:247:VAL:HG21	1:F:264:LEU:HD22	1.96	0.48
1:F:398:VAL:HG23	1:F:399:MET:N	2.28	0.48
1:F:463:LEU:HD22	1:F:467:PHE:HD2	1.74	0.48
1:F:511:SER:HB3	1:F:645:LEU:HD21	1.94	0.48
1:G:1252:ALA:HB1	1:G:1256:CYS:HB2	1.94	0.48
1:I:398:VAL:HG23	1:I:399:MET:N	2.28	0.48
1:J:408:TYR:O	1:J:411:VAL:HG22	2.14	0.48
1:K:499:GLN:HG3	1:K:502:ARG:HB2	1.96	0.48
1:K:511:SER:HB3	1:K:645:LEU:HD21	1.94	0.48
1:K:654:ILE:HG22	1:K:670:HIS:HD2	1.78	0.48
1:L:337:THR:HG1	1:L:340:ASN:H	1.62	0.48
1:M:253:TRP:CZ3	1:M:264:LEU:HD11	2.49	0.48
1:M:511:SER:HB3	1:M:645:LEU:HD21	1.94	0.48
1:M:538:LEU:HG	1:M:571:GLU:CD	2.33	0.48
1:M:900:GLU:HB2	1:M:930:HIS:CD2	2.48	0.48
1:N:398:VAL:HG23	1:N:399:MET:N	2.28	0.48
1:P:408:TYR:O	1:P:411:VAL:HG22	2.14	0.48
1:P:1252:ALA:HB1	1:P:1256:CYS:HB2	1.94	0.48
1:A:253:TRP:CZ3	1:A:264:LEU:HD11	2.48	0.48
1:A:337:THR:C	1:A:339:ASP:H	2.16	0.48
1:A:398:VAL:HG23	1:A:399:MET:N	2.28	0.48
1:A:538:LEU:HD21	1:A:573:ILE:HD11	1.94	0.48
1:A:552:ASN:HB3	1:A:1226:TYR:CE1	2.48	0.48
1:B:337:THR:C	1:B:339:ASP:H	2.16	0.48
1:B:392:ASP:OD1	1:B:393:VAL:N	2.47	0.48
1:C:253:TRP:CZ3	1:C:264:LEU:HD11	2.49	0.48
1:C:337:THR:HG1	1:C:340:ASN:H	1.62	0.48
1:D:130:PRO:HA	1:D:290:MET:HE3	1.95	0.48
1:D:317:LEU:O	1:D:318:THR:CB	2.61	0.48
1:D:511:SER:HB3	1:D:645:LEU:HD21	1.95	0.48
1:E:463:LEU:CD2	1:E:467:PHE:CD2	2.92	0.48
1:E:510:ALA:HB1	1:E:515:LEU:HA	1.96	0.48
1:E:604:ASN:ND2	1:E:929:VAL:H	2.04	0.48
1:E:900:GLU:HB2	1:E:930:HIS:CD2	2.48	0.48
1:F:317:LEU:O	1:F:318:THR:CB	2.61	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:510:ALA:HB1	1:F:515:LEU:HA	1.96	0.48
1:F:515:LEU:HD12	1:F:517:THR:H	1.78	0.48
1:G:383:THR:O	1:G:386:LEU:HB3	2.14	0.48
1:G:408:TYR:O	1:G:411:VAL:HG22	2.14	0.48
1:G:463:LEU:HD22	1:G:467:PHE:HD2	1.74	0.48
1:H:383:THR:O	1:H:386:LEU:HB3	2.14	0.48
1:I:90:SER:OG	1:I:91:PRO:HD3	2.14	0.48
1:I:499:GLN:HG3	1:I:502:ARG:HB2	1.96	0.48
1:I:965:LEU:HD11	1:I:993:ILE:HG12	1.96	0.48
1:J:253:TRP:CZ3	1:J:262:ILE:HD11	2.48	0.48
1:J:458:LEU:CG	1:J:587:ARG:NH2	2.74	0.48
1:J:510:ALA:HB1	1:J:515:LEU:HA	1.96	0.48
1:J:604:ASN:ND2	1:J:929:VAL:H	2.04	0.48
1:J:900:GLU:HB2	1:J:930:HIS:CD2	2.48	0.48
1:J:965:LEU:HD11	1:J:993:ILE:HG12	1.96	0.48
1:K:130:PRO:HA	1:K:290:MET:HE3	1.95	0.48
1:K:317:LEU:O	1:K:318:THR:CB	2.61	0.48
1:K:538:LEU:HG	1:K:571:GLU:CD	2.33	0.48
1:L:180:TRP:O	1:L:181:LEU:HD12	2.14	0.48
1:L:654:ILE:HG22	1:L:670:HIS:HD2	1.79	0.48
1:M:90:SER:OG	1:M:91:PRO:HD3	2.14	0.48
1:M:337:THR:C	1:M:339:ASP:H	2.16	0.48
1:M:499:GLN:HG3	1:M:502:ARG:HB2	1.96	0.48
1:N:253:TRP:CZ3	1:N:264:LEU:HD11	2.49	0.48
1:N:552:ASN:HB3	1:N:1226:TYR:CE1	2.48	0.48
1:N:654:ILE:HG22	1:N:670:HIS:HD2	1.78	0.48
1:O:337:THR:C	1:O:339:ASP:H	2.16	0.48
1:O:383:THR:O	1:O:386:LEU:HB3	2.14	0.48
1:O:965:LEU:HD11	1:O:993:ILE:HG12	1.96	0.48
1:P:383:THR:O	1:P:386:LEU:HB3	2.14	0.48
1:A:198:LYS:NZ	1:B:222:HIS:CG	2.81	0.48
1:A:502:ARG:HD3	1:A:516:ASN:HA	1.96	0.48
1:A:654:ILE:HG22	1:A:670:HIS:HD2	1.78	0.48
1:B:90:SER:OG	1:B:91:PRO:HD3	2.14	0.48
1:B:441:ARG:O	1:B:445:ASP:HB3	2.14	0.48
1:B:504:ASP:CG	1:B:509:ASN:O	2.51	0.48
1:C:180:TRP:O	1:C:181:LEU:HD12	2.14	0.48
1:C:247:VAL:HG21	1:C:264:LEU:HD22	1.96	0.48
1:C:383:THR:O	1:C:386:LEU:HB3	2.14	0.48
1:C:441:ARG:O	1:C:445:ASP:HB3	2.14	0.48
1:C:556:SER:O	1:C:557:LYS:HB2	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:604:ASN:ND2	1:C:928:VAL:HB	2.29	0.48
1:D:180:TRP:O	1:D:181:LEU:HD12	2.14	0.48
1:D:398:VAL:HG23	1:D:399:MET:N	2.28	0.48
1:D:447:TYR:O	1:D:447:TYR:CG	2.67	0.48
1:D:538:LEU:HG	1:D:571:GLU:CD	2.33	0.48
1:E:180:TRP:O	1:E:181:LEU:HD12	2.14	0.48
1:E:965:LEU:HD11	1:E:993:ILE:HG12	1.96	0.48
1:G:130:PRO:HA	1:G:290:MET:HE3	1.95	0.48
1:H:337:THR:C	1:H:339:ASP:H	2.16	0.48
1:I:11:GLN:O	1:I:14:ASP:N	2.46	0.48
1:I:247:VAL:HG21	1:I:264:LEU:HD22	1.96	0.48
1:I:510:ALA:HB1	1:I:515:LEU:HA	1.96	0.48
1:J:382:PRO:HA	1:J:419:THR:CG2	2.36	0.48
1:K:247:VAL:HG21	1:K:264:LEU:HD22	1.96	0.48
1:K:337:THR:HG1	1:K:340:ASN:H	1.62	0.48
1:K:441:ARG:O	1:K:445:ASP:HB3	2.14	0.48
1:K:447:TYR:O	1:K:447:TYR:CG	2.67	0.48
1:L:441:ARG:O	1:L:445:ASP:HB3	2.14	0.48
1:L:447:TYR:O	1:L:447:TYR:CG	2.67	0.48
1:L:538:LEU:HD21	1:L:573:ILE:HD11	1.94	0.48
1:L:604:ASN:ND2	1:L:928:VAL:HB	2.29	0.48
1:M:441:ARG:O	1:M:445:ASP:HB3	2.14	0.48
1:N:64:THR:O	1:N:67:SER:OG	2.27	0.48
1:N:175:ASP:O	1:N:177:LYS:HG2	2.13	0.48
1:N:502:ARG:HD3	1:N:516:ASN:HA	1.96	0.48
1:P:510:ALA:HB1	1:P:515:LEU:HA	1.96	0.48
1:A:463:LEU:CD2	1:A:467:PHE:CD2	2.92	0.47
1:A:965:LEU:HD11	1:A:993:ILE:HG12	1.96	0.47
1:B:194:GLU:OE2	1:C:216:ASN:ND2	2.47	0.47
1:B:478:ILE:HG22	1:B:479:GLU:N	2.29	0.47
1:C:447:TYR:O	1:C:447:TYR:CG	2.67	0.47
1:C:636:SER:O	1:C:637:LEU:O	2.31	0.47
1:D:441:ARG:O	1:D:445:ASP:HB3	2.14	0.47
1:E:117:ASN:O	1:E:119:VAL:N	2.47	0.47
1:E:434:GLU:C	1:E:436:GLU:H	2.18	0.47
1:E:478:ILE:HG22	1:E:479:GLU:N	2.29	0.47
1:F:253:TRP:CZ3	1:F:262:ILE:HD11	2.48	0.47
1:G:510:ALA:HB1	1:G:515:LEU:HA	1.96	0.47
1:G:654:ILE:HG22	1:G:670:HIS:HD2	1.78	0.47
1:H:253:TRP:CZ3	1:H:262:ILE:HD11	2.48	0.47
1:H:965:LEU:HD11	1:H:993:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:253:TRP:CZ3	1:I:262:ILE:HD11	2.48	0.47
1:J:117:ASN:O	1:J:119:VAL:N	2.47	0.47
1:J:180:TRP:O	1:J:181:LEU:HD12	2.14	0.47
1:J:556:SER:O	1:J:557:LYS:HB2	2.13	0.47
1:K:180:TRP:O	1:K:181:LEU:HD12	2.14	0.47
1:K:373:SER:CB	1:K:433:LEU:CD1	2.73	0.47
1:L:247:VAL:HG21	1:L:264:LEU:HD22	1.96	0.47
1:L:253:TRP:CZ3	1:L:264:LEU:HD11	2.49	0.47
1:N:965:LEU:HD11	1:N:993:ILE:HG12	1.96	0.47
1:O:11:GLN:O	1:O:14:ASP:N	2.46	0.47
1:O:1192:SER:OG	1:O:1208:GLU:OE2	2.28	0.47
1:O:1252:ALA:HB1	1:O:1256:CYS:HB2	1.94	0.47
1:P:130:PRO:HA	1:P:290:MET:HE3	1.95	0.47
1:P:604:ASN:ND2	1:P:928:VAL:HB	2.29	0.47
1:P:654:ILE:HG22	1:P:670:HIS:HD2	1.78	0.47
1:A:117:ASN:O	1:A:119:VAL:N	2.47	0.47
1:A:604:ASN:ND2	1:A:928:VAL:HB	2.29	0.47
1:A:638:GLU:OE1	1:A:640:GLU:N	2.42	0.47
1:B:117:ASN:O	1:B:119:VAL:N	2.47	0.47
1:B:180:TRP:O	1:B:181:LEU:HD12	2.14	0.47
1:C:365:TYR:OH	1:C:404:LYS:HG2	2.15	0.47
1:D:247:VAL:HG21	1:D:264:LEU:HD22	1.96	0.47
1:D:376:PRO:HG3	1:D:473:HIS:CD2	2.49	0.47
1:D:496:PHE:HE2	1:D:555:CYS:HG	1.58	0.47
1:D:552:ASN:HB3	1:D:1226:TYR:CE1	2.48	0.47
1:D:875:LEU:CD2	1:D:911:PHE:CE2	2.97	0.47
1:E:247:VAL:HG21	1:E:264:LEU:HD22	1.96	0.47
1:E:382:PRO:HA	1:E:419:THR:CG2	2.36	0.47
1:E:441:ARG:O	1:E:445:ASP:HB3	2.14	0.47
1:E:453:PHE:CE2	1:E:460:PRO:HB3	2.49	0.47
1:E:556:SER:O	1:E:557:LYS:HB2	2.13	0.47
1:E:875:LEU:CD2	1:E:911:PHE:CE2	2.97	0.47
1:F:376:PRO:HG3	1:F:473:HIS:CD2	2.49	0.47
1:F:408:TYR:O	1:F:411:VAL:HG22	2.14	0.47
1:F:462:TYR:OH	1:F:494:PHE:CZ	2.66	0.47
1:G:253:TRP:CZ3	1:G:262:ILE:HD11	2.48	0.47
1:G:462:TYR:OH	1:G:494:PHE:CZ	2.66	0.47
1:G:502:ARG:HD3	1:G:516:ASN:HA	1.96	0.47
1:G:602:ILE:HD12	1:G:900:GLU:HG2	1.96	0.47
1:G:604:ASN:ND2	1:G:928:VAL:HB	2.29	0.47
1:H:478:ILE:HG22	1:H:479:GLU:N	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:511:SER:C	1:H:513:SER:N	2.60	0.47
1:H:554:ILE:O	1:H:556:SER:N	2.45	0.47
1:H:1252:ALA:HB1	1:H:1256:CYS:HB2	1.94	0.47
1:I:180:TRP:O	1:I:181:LEU:HD12	2.14	0.47
1:I:511:SER:HB3	1:I:645:LEU:HD21	1.95	0.47
1:J:434:GLU:C	1:J:436:GLU:H	2.18	0.47
1:J:441:ARG:O	1:J:445:ASP:HB3	2.14	0.47
1:J:453:PHE:CE2	1:J:460:PRO:HB3	2.49	0.47
1:J:478:ILE:HG22	1:J:479:GLU:N	2.30	0.47
1:J:875:LEU:CD2	1:J:911:PHE:CE2	2.97	0.47
1:K:337:THR:C	1:K:339:ASP:H	2.16	0.47
1:K:376:PRO:HG3	1:K:473:HIS:CD2	2.49	0.47
1:K:875:LEU:CD2	1:K:911:PHE:CE2	2.97	0.47
1:L:337:THR:C	1:L:339:ASP:H	2.16	0.47
1:L:602:ILE:HD12	1:L:900:GLU:HG2	1.97	0.47
1:M:180:TRP:O	1:M:181:LEU:HD12	2.14	0.47
1:M:187:ASN:HA	1:M:249:ASN:ND2	2.24	0.47
1:M:478:ILE:HG22	1:M:479:GLU:N	2.30	0.47
1:M:504:ASP:CG	1:M:509:ASN:O	2.51	0.47
1:N:463:LEU:CD2	1:N:467:PHE:CD2	2.92	0.47
1:N:604:ASN:ND2	1:N:928:VAL:HB	2.29	0.47
1:O:253:TRP:CZ3	1:O:262:ILE:HD11	2.48	0.47
1:O:511:SER:C	1:O:513:SER:N	2.61	0.47
1:O:1177:TYR:CE2	1:P:916:LYS:CE	2.97	0.47
1:P:253:TRP:CZ3	1:P:262:ILE:HD11	2.48	0.47
1:P:602:ILE:HD12	1:P:900:GLU:HG2	1.97	0.47
1:A:64:THR:O	1:A:67:SER:OG	2.27	0.47
1:B:365:TYR:OH	1:B:404:LYS:HG2	2.15	0.47
1:B:447:TYR:O	1:B:447:TYR:CG	2.67	0.47
1:C:90:SER:OG	1:C:91:PRO:HD3	2.14	0.47
1:C:187:ASN:HA	1:C:249:ASN:ND2	2.24	0.47
1:C:502:ARG:HD3	1:C:516:ASN:HA	1.96	0.47
1:D:510:ALA:HB1	1:D:515:LEU:HA	1.96	0.47
1:E:447:TYR:O	1:E:447:TYR:CG	2.67	0.47
1:F:180:TRP:O	1:F:181:LEU:HD12	2.14	0.47
1:F:337:THR:HG1	1:F:340:ASN:H	1.62	0.47
1:F:604:ASN:ND2	1:F:928:VAL:HB	2.29	0.47
1:G:11:GLN:O	1:G:14:ASP:N	2.46	0.47
1:G:253:TRP:CZ3	1:G:264:LEU:HD11	2.49	0.47
1:G:552:ASN:HB3	1:G:1226:TYR:CE1	2.48	0.47
1:H:11:GLN:O	1:H:14:ASP:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:122:LYS:O	1:I:303:LYS:NZ	2.38	0.47
1:I:376:PRO:HG3	1:I:473:HIS:CD2	2.50	0.47
1:I:408:TYR:O	1:I:411:VAL:HG22	2.13	0.47
1:I:463:LEU:HD22	1:I:467:PHE:HD2	1.74	0.47
1:I:875:LEU:CD2	1:I:911:PHE:CE2	2.97	0.47
1:J:499:GLN:HG3	1:J:502:ARG:HB2	1.96	0.47
1:J:602:ILE:HD12	1:J:900:GLU:HG2	1.97	0.47
1:K:496:PHE:HE2	1:K:555:CYS:HG	1.58	0.47
1:K:965:LEU:HD11	1:K:993:ILE:HG12	1.96	0.47
1:L:365:TYR:OH	1:L:404:LYS:HG2	2.15	0.47
1:L:383:THR:O	1:L:386:LEU:HB3	2.14	0.47
1:L:483:ARG:O	1:L:486:LEU:N	2.48	0.47
1:M:117:ASN:O	1:M:119:VAL:N	2.48	0.47
1:M:447:TYR:O	1:M:447:TYR:CG	2.67	0.47
1:N:117:ASN:O	1:N:119:VAL:N	2.47	0.47
1:N:434:GLU:C	1:N:436:GLU:H	2.18	0.47
1:O:324:LEU:HD12	1:O:324:LEU:HA	1.61	0.47
1:O:554:ILE:O	1:O:556:SER:N	2.45	0.47
1:P:11:GLN:O	1:P:14:ASP:N	2.46	0.47
1:P:253:TRP:CZ3	1:P:264:LEU:HD11	2.49	0.47
1:A:376:PRO:HG3	1:A:473:HIS:CD2	2.50	0.47
1:A:434:GLU:C	1:A:436:GLU:H	2.18	0.47
1:A:443:ILE:HG21	1:A:477:ASN:ND2	2.24	0.47
1:A:875:LEU:CD2	1:A:911:PHE:CE2	2.97	0.47
1:B:187:ASN:HA	1:B:249:ASN:ND2	2.24	0.47
1:C:198:LYS:HZ1	1:D:222:HIS:CG	2.32	0.47
1:C:483:ARG:O	1:C:486:LEU:N	2.48	0.47
1:C:523:PHE:HD1	1:C:527:TYR:CE2	2.28	0.47
1:C:602:ILE:HD12	1:C:900:GLU:HG2	1.97	0.47
1:D:90:SER:OG	1:D:91:PRO:HD3	2.14	0.47
1:D:122:LYS:O	1:D:303:LYS:NZ	2.38	0.47
1:D:965:LEU:HD11	1:D:993:ILE:HG12	1.96	0.47
1:E:90:SER:OG	1:E:91:PRO:HD3	2.14	0.47
1:E:499:GLN:HG3	1:E:502:ARG:HB2	1.96	0.47
1:E:602:ILE:HD12	1:E:900:GLU:HG2	1.97	0.47
1:F:451:LYS:CD	1:F:486:LEU:HD21	2.33	0.47
1:F:875:LEU:CD2	1:F:911:PHE:CE2	2.97	0.47
1:I:462:TYR:OH	1:I:494:PHE:CZ	2.66	0.47
1:I:1252:ALA:HB1	1:I:1256:CYS:HB2	1.94	0.47
1:J:247:VAL:HG21	1:J:264:LEU:HD22	1.96	0.47
1:J:447:TYR:O	1:J:447:TYR:CG	2.67	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:463:LEU:CD2	1:J:467:PHE:CD2	2.92	0.47
1:K:510:ALA:HB1	1:K:515:LEU:HA	1.96	0.47
1:M:365:TYR:OH	1:M:404:LYS:HG2	2.15	0.47
1:N:376:PRO:HG3	1:N:473:HIS:CD2	2.49	0.47
1:N:523:PHE:HD1	1:N:527:TYR:CE2	2.28	0.47
1:N:875:LEU:CD2	1:N:911:PHE:CE2	2.97	0.47
1:O:478:ILE:HG22	1:O:479:GLU:N	2.30	0.47
1:P:90:SER:OG	1:P:91:PRO:HD3	2.14	0.47
1:P:502:ARG:HD3	1:P:516:ASN:HA	1.96	0.47
1:P:552:ASN:HB3	1:P:1226:TYR:CE1	2.48	0.47
1:A:383:THR:O	1:A:386:LEU:HB3	2.14	0.47
1:A:408:TYR:O	1:A:411:VAL:HG22	2.14	0.47
1:B:636:SER:O	1:B:637:LEU:O	2.31	0.47
1:B:965:LEU:HD11	1:B:993:ILE:HG12	1.96	0.47
1:C:152:VAL:O	1:C:155:SER:OG	2.29	0.47
1:C:478:ILE:HG22	1:C:479:GLU:N	2.29	0.47
1:D:337:THR:C	1:D:339:ASP:H	2.16	0.47
1:E:483:ARG:O	1:E:486:LEU:N	2.48	0.47
1:F:11:GLN:O	1:F:14:ASP:N	2.46	0.47
1:F:253:TRP:CZ3	1:F:264:LEU:HD11	2.49	0.47
1:F:365:TYR:OH	1:F:404:LYS:HG2	2.15	0.47
1:F:483:ARG:O	1:F:486:LEU:N	2.48	0.47
1:F:1252:ALA:HB1	1:F:1256:CYS:HB2	1.95	0.47
1:G:90:SER:OG	1:G:91:PRO:HD3	2.14	0.47
1:G:636:SER:O	1:G:637:LEU:O	2.31	0.47
1:H:510:ALA:HB1	1:H:515:LEU:HA	1.96	0.47
1:H:875:LEU:CD2	1:H:911:PHE:CE2	2.97	0.47
1:H:1192:SER:OG	1:H:1208:GLU:OE2	2.28	0.47
1:I:478:ILE:HG22	1:I:479:GLU:N	2.29	0.47
1:I:604:ASN:ND2	1:I:928:VAL:HB	2.29	0.47
1:J:483:ARG:O	1:J:486:LEU:N	2.48	0.47
1:J:604:ASN:ND2	1:J:928:VAL:HB	2.29	0.47
1:J:988:ASP:OD1	1:J:989:SER:N	2.43	0.47
1:K:552:ASN:HB3	1:K:1226:TYR:CE1	2.48	0.47
1:L:392:ASP:OD1	1:L:393:VAL:N	2.47	0.47
1:L:502:ARG:HD3	1:L:516:ASN:HA	1.96	0.47
1:L:556:SER:O	1:L:557:LYS:HB2	2.13	0.47
1:L:965:LEU:HD11	1:L:993:ILE:HG12	1.96	0.47
1:M:636:SER:O	1:M:637:LEU:O	2.31	0.47
1:M:875:LEU:CD2	1:M:911:PHE:CE2	2.97	0.47
1:M:965:LEU:HD11	1:M:993:ILE:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:365:TYR:OH	1:N:404:LYS:HG2	2.15	0.47
1:N:383:THR:O	1:N:386:LEU:HB3	2.14	0.47
1:O:434:GLU:C	1:O:436:GLU:H	2.18	0.47
1:O:636:SER:O	1:O:637:LEU:O	2.31	0.47
1:P:636:SER:O	1:P:637:LEU:O	2.31	0.47
1:A:365:TYR:OH	1:A:404:LYS:HG2	2.15	0.47
1:A:604:ASN:ND2	1:A:929:VAL:H	2.04	0.47
1:A:916:LYS:HE2	1:B:1177:TYR:CE2	2.47	0.47
1:B:383:THR:O	1:B:386:LEU:HB3	2.14	0.47
1:B:615:TYR:CD1	1:B:622:LEU:HD13	2.50	0.47
1:B:875:LEU:CD2	1:B:911:PHE:CE2	2.97	0.47
1:C:965:LEU:HD11	1:C:993:ILE:HG12	1.96	0.47
1:D:352:ILE:O	1:D:356:SER:OG	2.29	0.47
1:D:434:GLU:C	1:D:436:GLU:H	2.18	0.47
1:E:383:THR:O	1:E:386:LEU:HB3	2.14	0.47
1:E:463:LEU:HD22	1:E:467:PHE:HD2	1.74	0.47
1:E:604:ASN:ND2	1:E:928:VAL:HB	2.29	0.47
1:F:615:TYR:CD1	1:F:622:LEU:HD13	2.50	0.47
1:G:615:TYR:CD1	1:G:622:LEU:HD13	2.50	0.47
1:H:434:GLU:C	1:H:436:GLU:H	2.18	0.47
1:H:636:SER:O	1:H:637:LEU:O	2.31	0.47
1:H:811:ASP:OD1	1:H:812:THR:N	2.47	0.47
1:I:483:ARG:O	1:I:486:LEU:N	2.48	0.47
1:I:900:GLU:HB2	1:I:930:HIS:CD2	2.48	0.47
1:J:90:SER:OG	1:J:91:PRO:HD3	2.14	0.47
1:J:463:LEU:HD22	1:J:467:PHE:HD2	1.74	0.47
1:K:90:SER:OG	1:K:91:PRO:HD3	2.14	0.47
1:L:90:SER:OG	1:L:91:PRO:HD3	2.14	0.47
1:L:170:VAL:O	1:L:173:LYS:N	2.48	0.47
1:L:478:ILE:HG22	1:L:479:GLU:N	2.29	0.47
1:M:615:TYR:CD1	1:M:622:LEU:HD13	2.50	0.47
1:N:408:TYR:O	1:N:411:VAL:HG22	2.14	0.47
1:N:638:GLU:OE1	1:N:640:GLU:N	2.42	0.47
1:O:376:PRO:HG3	1:O:473:HIS:CD2	2.49	0.47
1:O:811:ASP:OD1	1:O:812:THR:N	2.46	0.47
1:O:875:LEU:CD2	1:O:911:PHE:CE2	2.97	0.47
1:P:615:TYR:CD1	1:P:622:LEU:HD13	2.50	0.47
1:A:198:LYS:HZ1	1:B:222:HIS:CG	2.32	0.47
1:A:222:HIS:CG	1:H:198:LYS:HZ1	2.32	0.47
1:A:336:ALA:C	1:A:338:TRP:H	2.17	0.47
1:A:441:ARG:O	1:A:445:ASP:HB3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:TYR:O	1:A:447:TYR:CG	2.67	0.47
1:A:523:PHE:HD1	1:A:527:TYR:CE2	2.28	0.47
1:A:602:ILE:HD12	1:A:900:GLU:HG2	1.97	0.47
1:A:615:TYR:CD1	1:A:622:LEU:HD13	2.50	0.47
1:A:636:SER:O	1:A:637:LEU:O	2.31	0.47
1:B:376:PRO:HG3	1:B:473:HIS:CD2	2.49	0.47
1:B:1074:HIS:O	1:B:1075:SER:OG	2.33	0.47
1:C:115:ASN:HB3	1:D:257:ASN:OD1	2.14	0.47
1:C:117:ASN:O	1:C:119:VAL:N	2.47	0.47
1:C:170:VAL:O	1:C:173:LYS:N	2.48	0.47
1:C:392:ASP:OD1	1:C:393:VAL:N	2.47	0.47
1:D:117:ASN:O	1:D:119:VAL:N	2.47	0.47
1:D:253:TRP:CZ3	1:D:264:LEU:HD11	2.49	0.47
1:D:337:THR:HG1	1:D:340:ASN:H	1.63	0.47
1:D:483:ARG:O	1:D:486:LEU:N	2.48	0.47
1:D:604:ASN:ND2	1:D:928:VAL:HB	2.29	0.47
1:E:170:VAL:O	1:E:173:LYS:N	2.48	0.47
1:E:209:SER:OG	1:F:212:ASP:CG	2.48	0.47
1:E:554:ILE:O	1:E:556:SER:N	2.45	0.47
1:E:988:ASP:OD1	1:E:989:SER:N	2.43	0.47
1:F:170:VAL:O	1:F:173:LYS:N	2.48	0.47
1:F:441:ARG:O	1:F:445:ASP:HB3	2.14	0.47
1:F:478:ILE:HG22	1:F:479:GLU:N	2.30	0.47
1:F:556:SER:O	1:F:557:LYS:HB2	2.13	0.47
1:F:900:GLU:HB2	1:F:930:HIS:CD2	2.48	0.47
1:G:117:ASN:O	1:G:118:GLN:C	2.53	0.47
1:G:117:ASN:O	1:G:119:VAL:N	2.47	0.47
1:G:331:ILE:HG21	1:G:338:TRP:HB2	1.97	0.47
1:G:346:CYS:O	1:G:350:THR:N	2.25	0.47
1:G:441:ARG:O	1:G:445:ASP:HB3	2.14	0.47
1:G:483:ARG:O	1:G:486:LEU:N	2.48	0.47
1:G:537:ARG:HA	1:G:540:ASN:HB2	1.97	0.47
1:G:875:LEU:CD2	1:G:911:PHE:CE2	2.97	0.47
1:H:90:SER:OG	1:H:91:PRO:HD3	2.14	0.47
1:H:376:PRO:HG3	1:H:473:HIS:CD2	2.49	0.47
1:H:441:ARG:O	1:H:445:ASP:HB3	2.14	0.47
1:H:447:TYR:O	1:H:447:TYR:CG	2.67	0.47
1:H:537:ARG:HA	1:H:540:ASN:HB2	1.97	0.47
1:I:253:TRP:CZ3	1:I:264:LEU:HD11	2.49	0.47
1:I:365:TYR:OH	1:I:404:LYS:HG2	2.15	0.47
1:I:556:SER:O	1:I:557:LYS:HB2	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:615:TYR:CD1	1:I:622:LEU:HD13	2.50	0.47
1:I:1192:SER:OG	1:I:1208:GLU:OE2	2.28	0.47
1:J:170:VAL:O	1:J:173:LYS:N	2.48	0.47
1:K:122:LYS:O	1:K:303:LYS:NZ	2.38	0.47
1:K:331:ILE:HG21	1:K:338:TRP:HB2	1.97	0.47
1:K:604:ASN:ND2	1:K:928:VAL:HB	2.29	0.47
1:L:212:ASP:OD2	1:M:209:SER:CB	2.57	0.47
1:L:510:ALA:HB1	1:L:515:LEU:HA	1.96	0.47
1:L:523:PHE:HD1	1:L:527:TYR:CE2	2.28	0.47
1:L:875:LEU:CD2	1:L:911:PHE:CE2	2.97	0.47
1:M:376:PRO:HG3	1:M:473:HIS:CD2	2.49	0.47
1:M:383:THR:O	1:M:386:LEU:HB3	2.14	0.47
1:N:441:ARG:O	1:N:445:ASP:HB3	2.14	0.47
1:N:443:ILE:HG21	1:N:477:ASN:ND2	2.24	0.47
1:N:602:ILE:HD12	1:N:900:GLU:HG2	1.97	0.47
1:N:604:ASN:ND2	1:N:929:VAL:H	2.04	0.47
1:N:615:TYR:CD1	1:N:622:LEU:HD13	2.50	0.47
1:N:1074:HIS:O	1:N:1075:SER:OG	2.33	0.47
1:O:441:ARG:O	1:O:445:ASP:HB3	2.14	0.47
1:O:447:TYR:O	1:O:447:TYR:CG	2.67	0.47
1:O:510:ALA:HB1	1:O:515:LEU:HA	1.96	0.47
1:O:537:ARG:HA	1:O:540:ASN:HB2	1.97	0.47
1:O:615:TYR:CD1	1:O:622:LEU:HD13	2.50	0.47
1:O:654:ILE:HG22	1:O:670:HIS:HD2	1.78	0.47
1:P:117:ASN:O	1:P:119:VAL:N	2.48	0.47
1:P:331:ILE:HG21	1:P:338:TRP:HB2	1.97	0.47
1:P:441:ARG:O	1:P:445:ASP:HB3	2.14	0.47
1:P:483:ARG:O	1:P:486:LEU:N	2.48	0.47
1:P:537:ARG:HA	1:P:540:ASN:HB2	1.97	0.47
1:P:875:LEU:CD2	1:P:911:PHE:CE2	2.97	0.47
1:A:510:ALA:HB1	1:A:515:LEU:HA	1.96	0.47
1:B:604:ASN:ND2	1:B:928:VAL:HB	2.29	0.47
1:C:615:TYR:CD1	1:C:622:LEU:HD13	2.50	0.47
1:C:1074:HIS:O	1:C:1075:SER:OG	2.33	0.47
1:E:331:ILE:HG21	1:E:338:TRP:HB2	1.97	0.47
1:E:615:TYR:CD1	1:E:622:LEU:HD13	2.50	0.47
1:F:293:THR:O	1:F:296:GLU:N	2.40	0.47
1:F:317:LEU:C	1:F:318:THR:HG1	1.95	0.47
1:F:331:ILE:HG21	1:F:338:TRP:HB2	1.97	0.47
1:F:641:ASP:OD1	1:F:642:THR:N	2.45	0.47
1:G:1075:SER:OG	1:G:1094:ASP:O	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:483:ARG:O	1:H:486:LEU:N	2.47	0.47
1:H:615:TYR:CD1	1:H:622:LEU:HD13	2.50	0.47
1:H:654:ILE:HG22	1:H:670:HIS:HD2	1.79	0.47
1:I:170:VAL:O	1:I:173:LYS:N	2.48	0.47
1:I:336:ALA:C	1:I:338:TRP:H	2.18	0.47
1:J:331:ILE:HG21	1:J:338:TRP:HB2	1.97	0.47
1:J:383:THR:O	1:J:386:LEU:HB3	2.14	0.47
1:J:615:TYR:CD1	1:J:622:LEU:HD13	2.50	0.47
1:K:253:TRP:CZ3	1:K:264:LEU:HD11	2.49	0.47
1:K:483:ARG:O	1:K:486:LEU:N	2.48	0.47
1:L:117:ASN:O	1:L:119:VAL:N	2.47	0.47
1:L:434:GLU:C	1:L:436:GLU:H	2.18	0.47
1:L:615:TYR:CD1	1:L:622:LEU:HD13	2.50	0.47
1:M:458:LEU:HA	1:M:587:ARG:HH21	1.80	0.47
1:M:1074:HIS:O	1:M:1075:SER:OG	2.33	0.47
1:N:247:VAL:HG21	1:N:264:LEU:HD22	1.96	0.47
1:N:336:ALA:C	1:N:338:TRP:H	2.18	0.47
1:N:447:TYR:O	1:N:447:TYR:CG	2.67	0.47
1:O:90:SER:OG	1:O:91:PRO:HD3	2.14	0.47
1:O:483:ARG:O	1:O:486:LEU:N	2.48	0.47
1:P:117:ASN:O	1:P:118:GLN:C	2.53	0.47
1:P:1075:SER:OG	1:P:1094:ASP:O	2.29	0.47
1:A:180:TRP:O	1:A:181:LEU:HD12	2.14	0.47
1:A:247:VAL:HG21	1:A:264:LEU:HD22	1.96	0.47
1:A:1074:HIS:O	1:A:1075:SER:OG	2.33	0.47
1:B:434:GLU:C	1:B:436:GLU:H	2.18	0.47
1:B:483:ARG:O	1:B:486:LEU:N	2.48	0.47
1:C:371:ARG:HB3	1:C:389:ILE:CG2	2.45	0.47
1:D:293:THR:HG22	1:D:295:ASP:H	1.80	0.47
1:D:331:ILE:HG21	1:D:338:TRP:HB2	1.97	0.47
1:D:453:PHE:CE2	1:D:460:PRO:HB3	2.49	0.47
1:E:293:THR:HG22	1:E:295:ASP:H	1.80	0.47
1:G:496:PHE:HE2	1:G:555:CYS:HG	1.61	0.47
1:H:331:ILE:HG21	1:H:338:TRP:HB2	1.97	0.47
1:I:301:LEU:CD2	1:I:313:PRO:CG	2.87	0.47
1:J:117:ASN:O	1:J:118:GLN:C	2.53	0.47
1:J:554:ILE:O	1:J:556:SER:N	2.46	0.47
1:K:117:ASN:O	1:K:119:VAL:N	2.48	0.47
1:K:293:THR:HG22	1:K:295:ASP:H	1.80	0.47
1:K:434:GLU:C	1:K:436:GLU:H	2.18	0.47
1:M:483:ARG:O	1:M:486:LEU:N	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:604:ASN:ND2	1:M:928:VAL:HB	2.29	0.47
1:N:478:ILE:HG22	1:N:479:GLU:N	2.30	0.47
1:N:483:ARG:O	1:N:486:LEU:N	2.48	0.47
1:N:510:ALA:HB1	1:N:515:LEU:HA	1.96	0.47
1:N:636:SER:O	1:N:637:LEU:O	2.31	0.47
1:O:331:ILE:HG21	1:O:338:TRP:HB2	1.97	0.47
1:P:346:CYS:O	1:P:350:THR:N	2.25	0.47
1:P:496:PHE:HE2	1:P:555:CYS:HG	1.61	0.47
1:A:293:THR:O	1:A:296:GLU:N	2.40	0.47
1:A:478:ILE:HG22	1:A:479:GLU:N	2.30	0.47
1:A:483:ARG:O	1:A:486:LEU:N	2.48	0.47
1:B:117:ASN:O	1:B:118:GLN:C	2.53	0.47
1:B:811:ASP:OD1	1:B:812:THR:N	2.46	0.47
1:C:122:LYS:HG3	1:D:276:SER:CB	2.45	0.47
1:C:443:ILE:HG21	1:C:477:ASN:ND2	2.24	0.47
1:C:451:LYS:CD	1:C:486:LEU:HD21	2.33	0.47
1:D:54:ALA:O	1:D:58:THR:N	2.48	0.47
1:D:365:TYR:OH	1:D:404:LYS:HG2	2.15	0.47
1:D:383:THR:O	1:D:386:LEU:HB3	2.14	0.47
1:D:443:ILE:HG21	1:D:477:ASN:ND2	2.24	0.47
1:D:463:LEU:HD22	1:D:467:PHE:HD2	1.74	0.47
1:D:478:ILE:HG22	1:D:479:GLU:N	2.30	0.47
1:D:811:ASP:OD1	1:D:812:THR:N	2.46	0.47
1:E:117:ASN:O	1:E:118:GLN:C	2.53	0.47
1:E:253:TRP:CZ3	1:E:264:LEU:HD11	2.49	0.47
1:F:336:ALA:C	1:F:338:TRP:H	2.18	0.47
1:F:447:TYR:O	1:F:447:TYR:CG	2.67	0.47
1:F:552:ASN:HB3	1:F:1226:TYR:CE1	2.48	0.47
1:I:331:ILE:HG21	1:I:338:TRP:HB2	1.97	0.47
1:I:441:ARG:O	1:I:445:ASP:HB3	2.14	0.47
1:I:447:TYR:O	1:I:447:TYR:CG	2.67	0.47
1:I:508:TRP:O	1:I:606:GLY:CA	2.63	0.47
1:J:293:THR:HG22	1:J:295:ASP:H	1.80	0.47
1:K:54:ALA:O	1:K:58:THR:N	2.48	0.47
1:K:64:THR:O	1:K:67:SER:OG	2.27	0.47
1:K:453:PHE:CE2	1:K:460:PRO:HB3	2.49	0.47
1:K:478:ILE:HG22	1:K:479:GLU:N	2.29	0.47
1:L:331:ILE:HG21	1:L:338:TRP:HB2	1.97	0.47
1:L:371:ARG:HB3	1:L:389:ILE:CG2	2.45	0.47
1:L:376:PRO:HG3	1:L:473:HIS:CD2	2.49	0.47
1:L:811:ASP:OD1	1:L:812:THR:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:434:GLU:C	1:M:436:GLU:H	2.18	0.47
1:M:510:ALA:HB1	1:M:515:LEU:HA	1.96	0.47
1:N:180:TRP:O	1:N:181:LEU:HD12	2.14	0.47
1:N:293:THR:O	1:N:296:GLU:N	2.40	0.47
1:O:117:ASN:O	1:O:119:VAL:N	2.47	0.47
1:A:117:ASN:O	1:A:118:GLN:C	2.53	0.46
1:A:811:ASP:OD1	1:A:812:THR:N	2.46	0.46
1:B:458:LEU:HA	1:B:587:ARG:HH21	1.80	0.46
1:B:510:ALA:HB1	1:B:515:LEU:HA	1.96	0.46
1:C:875:LEU:CD2	1:C:911:PHE:CE2	2.97	0.46
1:D:64:THR:O	1:D:67:SER:OG	2.27	0.46
1:E:201:TYR:CZ	1:F:223:SER:OG	2.65	0.46
1:E:358:ASN:HA	1:E:366:ARG:NH2	2.31	0.46
1:F:314:ARG:C	1:F:315:GLU:CG	2.81	0.46
1:F:1192:SER:OG	1:F:1208:GLU:OE2	2.28	0.46
1:H:117:ASN:O	1:H:119:VAL:N	2.48	0.46
1:H:462:TYR:OH	1:H:494:PHE:CZ	2.66	0.46
1:I:117:ASN:O	1:I:119:VAL:N	2.47	0.46
1:K:383:THR:O	1:K:386:LEU:HB3	2.14	0.46
1:K:638:GLU:OE1	1:K:640:GLU:N	2.42	0.46
1:K:811:ASP:OD1	1:K:812:THR:N	2.46	0.46
1:L:1074:HIS:O	1:L:1075:SER:OG	2.33	0.46
1:M:117:ASN:O	1:M:118:GLN:C	2.53	0.46
1:N:811:ASP:OD1	1:N:812:THR:N	2.46	0.46
1:O:365:TYR:OH	1:O:404:LYS:HG2	2.15	0.46
1:O:462:TYR:OH	1:O:494:PHE:CZ	2.66	0.46
1:O:502:ARG:HD3	1:O:516:ASN:HA	1.96	0.46
1:P:247:VAL:HG21	1:P:264:LEU:HD22	1.96	0.46
1:P:376:PRO:HG3	1:P:473:HIS:CD2	2.49	0.46
1:P:434:GLU:C	1:P:436:GLU:H	2.18	0.46
1:A:122:LYS:HG3	1:B:276:SER:CB	2.44	0.46
1:A:293:THR:HG22	1:A:295:ASP:H	1.80	0.46
1:A:331:ILE:HG21	1:A:338:TRP:HB2	1.97	0.46
1:A:458:LEU:HA	1:A:587:ARG:HH21	1.80	0.46
1:A:537:ARG:HA	1:A:540:ASN:HB2	1.97	0.46
1:B:336:ALA:C	1:B:338:TRP:H	2.17	0.46
1:C:376:PRO:HG3	1:C:473:HIS:CD2	2.49	0.46
1:C:462:TYR:OH	1:C:494:PHE:CZ	2.66	0.46
1:C:510:ALA:HB1	1:C:515:LEU:HA	1.96	0.46
1:D:336:ALA:C	1:D:338:TRP:H	2.18	0.46
1:D:543:LEU:O	1:D:547:PRO:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:615:TYR:CD1	1:D:622:LEU:HD13	2.50	0.46
1:D:638:GLU:OE1	1:D:640:GLU:N	2.42	0.46
1:E:502:ARG:HD3	1:E:516:ASN:HA	1.96	0.46
1:F:508:TRP:O	1:F:606:GLY:CA	2.63	0.46
1:F:543:LEU:O	1:F:547:PRO:HD2	2.16	0.46
1:G:247:VAL:HG21	1:G:264:LEU:HD22	1.96	0.46
1:G:365:TYR:OH	1:G:404:LYS:HG2	2.15	0.46
1:G:447:TYR:O	1:G:447:TYR:CG	2.67	0.46
1:H:251:APK:H2'	1:H:251:APK:H8	1.74	0.46
1:H:365:TYR:OH	1:H:404:LYS:HG2	2.15	0.46
1:H:604:ASN:ND2	1:H:928:VAL:HB	2.29	0.46
1:I:293:THR:O	1:I:296:GLU:N	2.40	0.46
1:I:602:ILE:HD12	1:I:900:GLU:HG2	1.97	0.46
1:J:253:TRP:CZ3	1:J:264:LEU:HD11	2.49	0.46
1:J:352:ILE:O	1:J:356:SER:OG	2.29	0.46
1:K:336:ALA:C	1:K:338:TRP:H	2.17	0.46
1:K:463:LEU:HD22	1:K:467:PHE:HD2	1.74	0.46
1:K:615:TYR:CD1	1:K:622:LEU:HD13	2.50	0.46
1:L:537:ARG:HA	1:L:540:ASN:HB2	1.97	0.46
1:M:811:ASP:OD1	1:M:812:THR:N	2.47	0.46
1:N:117:ASN:O	1:N:118:GLN:C	2.53	0.46
1:N:293:THR:HG22	1:N:295:ASP:H	1.80	0.46
1:N:458:LEU:HA	1:N:587:ARG:HH21	1.80	0.46
1:N:537:ARG:HA	1:N:540:ASN:HB2	1.97	0.46
1:O:336:ALA:C	1:O:338:TRP:H	2.17	0.46
1:O:496:PHE:HE2	1:O:555:CYS:HG	1.61	0.46
1:O:1074:HIS:O	1:O:1075:SER:OG	2.33	0.46
1:O:1201:THR:OG1	1:O:1202:MET:N	2.48	0.46
1:P:447:TYR:O	1:P:447:TYR:CG	2.67	0.46
1:P:478:ILE:HG22	1:P:479:GLU:N	2.29	0.46
1:P:508:TRP:O	1:P:606:GLY:CA	2.63	0.46
1:A:133:LYS:O	1:A:136:GLN:HB3	2.16	0.46
1:B:502:ARG:HD3	1:B:516:ASN:HA	1.96	0.46
1:C:54:ALA:O	1:C:58:THR:N	2.48	0.46
1:C:331:ILE:HG21	1:C:338:TRP:HB2	1.97	0.46
1:C:811:ASP:OD1	1:C:812:THR:N	2.46	0.46
1:D:537:ARG:HA	1:D:540:ASN:HB2	1.97	0.46
1:E:225:GLN:HG3	1:E:258:LEU:HD22	1.98	0.46
1:E:376:PRO:HG3	1:E:473:HIS:CD2	2.49	0.46
1:E:811:ASP:OD1	1:E:812:THR:N	2.46	0.46
1:F:537:ARG:HA	1:F:540:ASN:HB2	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:602:ILE:HD12	1:F:900:GLU:HG2	1.96	0.46
1:G:133:LYS:O	1:G:136:GLN:HB3	2.16	0.46
1:G:376:PRO:HG3	1:G:473:HIS:CD2	2.50	0.46
1:G:434:GLU:C	1:G:436:GLU:H	2.18	0.46
1:G:508:TRP:O	1:G:606:GLY:CA	2.63	0.46
1:G:811:ASP:OD1	1:G:812:THR:N	2.47	0.46
1:H:336:ALA:C	1:H:338:TRP:H	2.17	0.46
1:H:502:ARG:HD3	1:H:516:ASN:HA	1.96	0.46
1:H:1074:HIS:O	1:H:1075:SER:OG	2.33	0.46
1:I:434:GLU:C	1:I:436:GLU:H	2.18	0.46
1:I:543:LEU:O	1:I:547:PRO:HD2	2.16	0.46
1:I:552:ASN:HB3	1:I:1226:TYR:CE1	2.48	0.46
1:J:358:ASN:HA	1:J:366:ARG:NH2	2.31	0.46
1:K:365:TYR:OH	1:K:404:LYS:HG2	2.15	0.46
1:K:443:ILE:HG21	1:K:477:ASN:ND2	2.24	0.46
1:K:537:ARG:HA	1:K:540:ASN:HB2	1.97	0.46
1:K:543:LEU:O	1:K:547:PRO:HD2	2.16	0.46
1:L:54:ALA:O	1:L:58:THR:N	2.48	0.46
1:L:443:ILE:HG21	1:L:477:ASN:ND2	2.24	0.46
1:M:331:ILE:HG21	1:M:338:TRP:HB2	1.97	0.46
1:M:336:ALA:C	1:M:338:TRP:H	2.17	0.46
1:M:443:ILE:HG21	1:M:477:ASN:ND2	2.24	0.46
1:N:331:ILE:HG21	1:N:338:TRP:HB2	1.97	0.46
1:O:602:ILE:HD12	1:O:900:GLU:HG2	1.97	0.46
1:O:604:ASN:ND2	1:O:928:VAL:HB	2.29	0.46
1:P:133:LYS:O	1:P:136:GLN:HB3	2.16	0.46
1:P:170:VAL:O	1:P:173:LYS:N	2.48	0.46
1:P:365:TYR:OH	1:P:404:LYS:HG2	2.15	0.46
1:P:811:ASP:OD1	1:P:812:THR:N	2.46	0.46
1:A:543:LEU:O	1:A:547:PRO:HD2	2.16	0.46
1:B:331:ILE:HG21	1:B:338:TRP:HB2	1.97	0.46
1:C:336:ALA:C	1:C:338:TRP:H	2.18	0.46
1:C:537:ARG:HA	1:C:540:ASN:HB2	1.97	0.46
1:D:198:LYS:NZ	1:E:222:HIS:CG	2.83	0.46
1:E:352:ILE:O	1:E:356:SER:OG	2.29	0.46
1:F:133:LYS:O	1:F:136:GLN:HB3	2.16	0.46
1:F:301:LEU:CD2	1:F:313:PRO:CG	2.87	0.46
1:F:358:ASN:HA	1:F:366:ARG:NH2	2.31	0.46
1:G:170:VAL:O	1:G:173:LYS:N	2.48	0.46
1:G:293:THR:HG22	1:G:295:ASP:H	1.80	0.46
1:G:478:ILE:HG22	1:G:479:GLU:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:511:SER:C	1:G:513:SER:N	2.61	0.46
1:H:180:TRP:O	1:H:181:LEU:HD12	2.14	0.46
1:H:1201:THR:OG1	1:H:1202:MET:N	2.48	0.46
1:I:133:LYS:O	1:I:136:GLN:HB3	2.16	0.46
1:I:537:ARG:HA	1:I:540:ASN:HB2	1.97	0.46
1:J:301:LEU:CD2	1:J:313:PRO:CG	2.87	0.46
1:J:376:PRO:HG3	1:J:473:HIS:CD2	2.49	0.46
1:J:502:ARG:HD3	1:J:516:ASN:HA	1.96	0.46
1:J:638:GLU:OE1	1:J:640:GLU:N	2.42	0.46
1:K:301:LEU:CD2	1:K:313:PRO:CG	2.87	0.46
1:K:392:ASP:OD1	1:K:393:VAL:N	2.47	0.46
1:K:554:ILE:O	1:K:556:SER:N	2.45	0.46
1:L:358:ASN:HA	1:L:366:ARG:NH2	2.31	0.46
1:N:133:LYS:O	1:N:136:GLN:HB3	2.16	0.46
1:N:222:HIS:CG	1:O:198:LYS:NZ	2.84	0.46
1:N:543:LEU:O	1:N:547:PRO:HD2	2.16	0.46
1:O:180:TRP:O	1:O:181:LEU:HD12	2.14	0.46
1:P:293:THR:HG22	1:P:295:ASP:H	1.80	0.46
1:P:336:ALA:C	1:P:338:TRP:H	2.17	0.46
1:C:207:TRP:CH2	1:C:209:SER:HA	2.51	0.46
1:C:458:LEU:HA	1:C:587:ARG:HH21	1.80	0.46
1:D:358:ASN:HA	1:D:366:ARG:NH2	2.31	0.46
1:D:392:ASP:OD1	1:D:393:VAL:N	2.47	0.46
1:D:554:ILE:O	1:D:556:SER:N	2.45	0.46
1:E:180:TRP:C	1:E:181:LEU:HD12	2.36	0.46
1:E:336:ALA:C	1:E:338:TRP:H	2.18	0.46
1:E:638:GLU:OE1	1:E:640:GLU:N	2.42	0.46
1:F:117:ASN:O	1:F:119:VAL:N	2.47	0.46
1:F:371:ARG:HB3	1:F:389:ILE:CG2	2.45	0.46
1:G:336:ALA:C	1:G:338:TRP:H	2.17	0.46
1:G:358:ASN:HA	1:G:366:ARG:NH2	2.31	0.46
1:G:371:ARG:HB3	1:G:389:ILE:CG2	2.45	0.46
1:H:207:TRP:CH2	1:H:209:SER:HA	2.51	0.46
1:H:458:LEU:CG	1:H:587:ARG:NH2	2.74	0.46
1:I:127:ARG:HD3	1:I:292:LEU:HD12	1.98	0.46
1:I:451:LYS:CD	1:I:486:LEU:HD21	2.33	0.46
1:J:225:GLN:HG3	1:J:258:LEU:HD22	1.98	0.46
1:J:365:TYR:OH	1:J:404:LYS:HG2	2.15	0.46
1:J:392:ASP:OD1	1:J:393:VAL:N	2.47	0.46
1:J:811:ASP:OD1	1:J:812:THR:N	2.46	0.46
1:K:225:GLN:HG3	1:K:258:LEU:HD22	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:358:ASN:HA	1:K:366:ARG:NH2	2.31	0.46
1:L:207:TRP:CH2	1:L:209:SER:HA	2.51	0.46
1:L:398:VAL:HG23	1:L:399:MET:N	2.28	0.46
1:M:502:ARG:HD3	1:M:516:ASN:HA	1.96	0.46
1:N:170:VAL:O	1:N:173:LYS:N	2.48	0.46
1:N:1201:THR:OG1	1:N:1202:MET:N	2.48	0.46
1:O:508:TRP:O	1:O:606:GLY:CA	2.63	0.46
1:P:180:TRP:O	1:P:181:LEU:HD12	2.14	0.46
1:P:361:GLU:HB2	1:P:364:GLU:HB3	1.98	0.46
1:P:371:ARG:HB3	1:P:389:ILE:CG2	2.45	0.46
1:A:170:VAL:O	1:A:173:LYS:N	2.48	0.46
1:A:371:ARG:HB3	1:A:389:ILE:CG2	2.45	0.46
1:C:293:THR:HG22	1:C:295:ASP:H	1.80	0.46
1:C:866:LYS:HE2	1:C:872:ARG:HH11	1.81	0.46
1:D:225:GLN:HG3	1:D:258:LEU:HD22	1.98	0.46
1:D:1059:ASP:HB3	1:D:1071:ALA:HB3	1.98	0.46
1:E:301:LEU:CD2	1:E:313:PRO:CG	2.87	0.46
1:E:365:TYR:OH	1:E:404:LYS:HG2	2.15	0.46
1:E:1074:HIS:O	1:E:1075:SER:OG	2.33	0.46
1:F:127:ARG:HD3	1:F:292:LEU:HD12	1.98	0.46
1:G:180:TRP:O	1:G:181:LEU:HD12	2.14	0.46
1:G:361:GLU:HB2	1:G:364:GLU:HB3	1.98	0.46
1:G:1074:HIS:O	1:G:1075:SER:OG	2.33	0.46
1:H:170:VAL:O	1:H:173:LYS:N	2.48	0.46
1:H:602:ILE:HD12	1:H:900:GLU:HG2	1.97	0.46
1:H:1036:VAL:HG12	1:H:1037:ASP:N	2.31	0.46
1:I:80:VAL:HA	1:I:83:ILE:HD12	1.98	0.46
1:I:358:ASN:HA	1:I:366:ARG:NH2	2.31	0.46
1:I:641:ASP:OD1	1:I:642:THR:N	2.45	0.46
1:J:180:TRP:C	1:J:181:LEU:HD12	2.36	0.46
1:J:317:LEU:O	1:J:318:THR:CB	2.61	0.46
1:J:336:ALA:C	1:J:338:TRP:H	2.18	0.46
1:J:462:TYR:OH	1:J:494:PHE:CZ	2.66	0.46
1:J:1074:HIS:O	1:J:1075:SER:OG	2.33	0.46
1:L:130:PRO:HA	1:L:290:MET:HE3	1.96	0.46
1:L:293:THR:HG22	1:L:295:ASP:H	1.80	0.46
1:L:866:LYS:HE2	1:L:872:ARG:HH11	1.81	0.46
1:O:117:ASN:O	1:O:118:GLN:C	2.53	0.46
1:O:207:TRP:CH2	1:O:209:SER:HA	2.51	0.46
1:A:1201:THR:OG1	1:A:1202:MET:N	2.48	0.46
1:B:543:LEU:O	1:B:547:PRO:HD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1059:ASP:HB3	1:B:1071:ALA:HB3	1.98	0.46
1:C:641:ASP:OD1	1:C:642:THR:N	2.45	0.46
1:D:133:LYS:O	1:D:136:GLN:HB3	2.16	0.46
1:D:301:LEU:CD2	1:D:313:PRO:CG	2.87	0.46
1:D:602:ILE:HD12	1:D:900:GLU:HG2	1.97	0.46
1:D:1074:HIS:O	1:D:1075:SER:OG	2.33	0.46
1:E:371:ARG:HB3	1:E:389:ILE:CG2	2.45	0.46
1:E:392:ASP:OD1	1:E:393:VAL:N	2.47	0.46
1:F:458:LEU:HA	1:F:587:ARG:HH21	1.80	0.46
1:G:80:VAL:HA	1:G:83:ILE:HD12	1.98	0.46
1:H:371:ARG:HB3	1:H:389:ILE:CG2	2.45	0.46
1:H:508:TRP:O	1:H:606:GLY:CA	2.63	0.46
1:I:85:TYR:HB2	1:I:87:PHE:CE2	2.51	0.46
1:I:371:ARG:HB3	1:I:389:ILE:CG2	2.45	0.46
1:J:322:ARG:C	1:J:324:LEU:H	2.19	0.46
1:J:537:ARG:HA	1:J:540:ASN:HB2	1.97	0.46
1:J:1036:VAL:HG12	1:J:1037:ASP:N	2.31	0.46
1:K:133:LYS:O	1:K:136:GLN:HB3	2.16	0.46
1:K:602:ILE:HD12	1:K:900:GLU:HG2	1.97	0.46
1:L:336:ALA:C	1:L:338:TRP:H	2.17	0.46
1:L:458:LEU:HA	1:L:587:ARG:HH21	1.80	0.46
1:M:1059:ASP:HB3	1:M:1071:ALA:HB3	1.98	0.46
1:N:371:ARG:HB3	1:N:389:ILE:CG2	2.45	0.46
1:O:170:VAL:O	1:O:173:LYS:N	2.48	0.46
1:O:371:ARG:HB3	1:O:389:ILE:CG2	2.45	0.46
1:O:398:VAL:HG23	1:O:399:MET:N	2.28	0.46
1:O:1036:VAL:HG12	1:O:1037:ASP:N	2.31	0.46
1:P:358:ASN:HA	1:P:366:ARG:NH2	2.31	0.46
1:P:1074:HIS:O	1:P:1075:SER:OG	2.33	0.46
1:A:207:TRP:CH2	1:A:209:SER:HA	2.51	0.46
1:A:1059:ASP:HB3	1:A:1071:ALA:HB3	1.98	0.46
1:B:537:ARG:HA	1:B:540:ASN:HB2	1.97	0.46
1:C:11:GLN:O	1:C:14:ASP:N	2.46	0.46
1:C:115:ASN:HB3	1:D:257:ASN:ND2	2.31	0.46
1:C:358:ASN:HA	1:C:366:ARG:NH2	2.31	0.46
1:D:146:ASN:HB2	1:D:280:THR:HG22	1.98	0.46
1:D:170:VAL:O	1:D:173:LYS:N	2.48	0.46
1:E:85:TYR:HB2	1:E:87:PHE:CE2	2.51	0.46
1:E:322:ARG:C	1:E:324:LEU:H	2.19	0.46
1:E:361:GLU:HB2	1:E:364:GLU:HB3	1.98	0.46
1:E:1036:VAL:HG12	1:E:1037:ASP:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:85:TYR:HB2	1:F:87:PHE:CE2	2.51	0.46
1:G:453:PHE:CE1	1:G:460:PRO:HB3	2.51	0.46
1:H:117:ASN:O	1:H:118:GLN:C	2.53	0.46
1:H:398:VAL:HG23	1:H:399:MET:N	2.28	0.46
1:H:543:LEU:O	1:H:547:PRO:HD2	2.16	0.46
1:I:1074:HIS:O	1:I:1075:SER:OG	2.33	0.46
1:J:54:ALA:O	1:J:58:THR:N	2.48	0.46
1:J:85:TYR:HB2	1:J:87:PHE:CE2	2.51	0.46
1:J:1059:ASP:HB3	1:J:1071:ALA:HB3	1.98	0.46
1:K:170:VAL:O	1:K:173:LYS:N	2.48	0.46
1:K:1059:ASP:HB3	1:K:1071:ALA:HB3	1.98	0.46
1:K:1074:HIS:O	1:K:1075:SER:OG	2.33	0.46
1:L:146:ASN:HB2	1:L:280:THR:HG22	1.98	0.46
1:L:451:LYS:CD	1:L:486:LEU:HD21	2.33	0.46
1:M:543:LEU:O	1:M:547:PRO:HD2	2.16	0.46
1:N:207:TRP:CH2	1:N:209:SER:HA	2.51	0.46
1:N:453:PHE:CE1	1:N:460:PRO:HB3	2.51	0.46
1:O:458:LEU:CG	1:O:587:ARG:NH2	2.74	0.46
1:P:225:GLN:HG3	1:P:258:LEU:HD22	1.98	0.46
1:P:317:LEU:O	1:P:318:THR:CB	2.61	0.46
1:P:511:SER:C	1:P:513:SER:N	2.60	0.46
1:P:543:LEU:O	1:P:547:PRO:HD2	2.16	0.46
1:A:453:PHE:CE1	1:A:460:PRO:HB3	2.51	0.46
1:A:656:ARG:HG2	1:A:657:MET:H	1.81	0.46
1:C:85:TYR:HB2	1:C:87:PHE:CE2	2.51	0.46
1:C:117:ASN:O	1:C:118:GLN:C	2.53	0.46
1:C:130:PRO:HA	1:C:290:MET:HE3	1.96	0.46
1:C:146:ASN:HB2	1:C:280:THR:HG22	1.98	0.46
1:C:398:VAL:HG23	1:C:399:MET:N	2.28	0.46
1:C:434:GLU:C	1:C:436:GLU:H	2.18	0.46
1:C:458:LEU:CG	1:C:587:ARG:NH2	2.74	0.46
1:D:85:TYR:HB2	1:D:87:PHE:CE2	2.51	0.46
1:D:1201:THR:OG1	1:D:1202:MET:N	2.48	0.46
1:E:54:ALA:O	1:E:58:THR:N	2.48	0.46
1:E:146:ASN:HB2	1:E:280:THR:HG22	1.98	0.46
1:E:317:LEU:O	1:E:318:THR:CB	2.61	0.46
1:E:537:ARG:HA	1:E:540:ASN:HB2	1.97	0.46
1:F:80:VAL:HA	1:F:83:ILE:HD12	1.98	0.46
1:F:121:ALA:CB	1:G:276:SER:HB3	2.29	0.46
1:F:207:TRP:CH2	1:F:209:SER:HA	2.51	0.46
1:F:293:THR:HG22	1:F:295:ASP:H	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:434:GLU:C	1:F:436:GLU:H	2.18	0.46
1:G:225:GLN:HG3	1:G:258:LEU:HD22	1.98	0.46
1:G:317:LEU:O	1:G:318:THR:CB	2.61	0.46
1:H:458:LEU:HA	1:H:587:ARG:HH21	1.80	0.46
1:I:293:THR:HG22	1:I:295:ASP:H	1.80	0.46
1:I:322:ARG:C	1:I:324:LEU:H	2.19	0.46
1:I:392:ASP:OD1	1:I:393:VAL:N	2.47	0.46
1:I:475:LEU:HA	1:I:478:ILE:HD12	1.98	0.46
1:J:146:ASN:HB2	1:J:280:THR:HG22	1.98	0.46
1:J:361:GLU:HB2	1:J:364:GLU:HB3	1.98	0.46
1:K:85:TYR:HB2	1:K:87:PHE:CE2	2.51	0.46
1:K:146:ASN:HB2	1:K:280:THR:HG22	1.98	0.46
1:K:633:THR:HG22	1:K:643:TYR:HA	1.97	0.46
1:K:1201:THR:OG1	1:K:1202:MET:N	2.48	0.46
1:L:458:LEU:HG	1:L:587:ARG:HH22	1.81	0.46
1:M:602:ILE:HD12	1:M:900:GLU:HG2	1.97	0.46
1:M:1177:TYR:HE2	1:N:916:LYS:HE2	1.81	0.46
1:N:554:ILE:O	1:N:556:SER:N	2.45	0.46
1:N:1059:ASP:HB3	1:N:1071:ALA:HB3	1.98	0.46
1:O:543:LEU:O	1:O:547:PRO:HD2	2.16	0.46
1:P:80:VAL:HA	1:P:83:ILE:HD12	1.98	0.46
1:P:1036:VAL:HG12	1:P:1037:ASP:N	2.31	0.46
1:A:475:LEU:HA	1:A:478:ILE:HD12	1.98	0.46
1:A:597:HIS:CD2	1:A:598:GLN:H	2.34	0.46
1:A:866:LYS:HE2	1:A:872:ARG:HH11	1.81	0.46
1:B:602:ILE:HD12	1:B:900:GLU:HG2	1.97	0.46
1:C:127:ARG:HD3	1:C:292:LEU:HD12	1.98	0.46
1:C:1059:ASP:HB3	1:C:1071:ALA:HB3	1.98	0.46
1:D:180:TRP:C	1:D:181:LEU:HD12	2.36	0.46
1:D:633:THR:HG22	1:D:643:TYR:HA	1.97	0.46
1:E:207:TRP:CH2	1:E:209:SER:HA	2.51	0.46
1:E:1059:ASP:HB3	1:E:1071:ALA:HB3	1.98	0.46
1:G:475:LEU:HA	1:G:478:ILE:HD12	1.98	0.46
1:G:543:LEU:O	1:G:547:PRO:HD2	2.16	0.46
1:G:1036:VAL:HG12	1:G:1037:ASP:N	2.31	0.46
1:H:361:GLU:HB2	1:H:364:GLU:HB3	1.98	0.46
1:J:523:PHE:HD1	1:J:527:TYR:CE2	2.28	0.46
1:J:656:ARG:HG2	1:J:657:MET:H	1.81	0.46
1:J:866:LYS:HE2	1:J:872:ARG:HH11	1.81	0.46
1:K:180:TRP:C	1:K:181:LEU:HD12	2.36	0.46
1:L:85:TYR:HB2	1:L:87:PHE:CE2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:458:LEU:CG	1:L:587:ARG:NH2	2.74	0.46
1:L:554:ILE:O	1:L:556:SER:N	2.46	0.46
1:L:1036:VAL:HG12	1:L:1037:ASP:N	2.31	0.46
1:L:1059:ASP:HB3	1:L:1071:ALA:HB3	1.98	0.46
1:M:207:TRP:CH2	1:M:209:SER:HA	2.51	0.46
1:M:537:ARG:HA	1:M:540:ASN:HB2	1.97	0.46
1:N:475:LEU:HA	1:N:478:ILE:HD12	1.98	0.46
1:P:231:LEU:O	1:P:234:SER:OG	2.26	0.46
1:A:85:TYR:HB2	1:A:87:PHE:CE2	2.51	0.45
1:A:491:PHE:N	1:A:491:PHE:CD1	2.83	0.45
1:B:207:TRP:CH2	1:B:209:SER:HA	2.51	0.45
1:B:352:ILE:O	1:B:356:SER:OG	2.29	0.45
1:B:656:ARG:HG2	1:B:657:MET:H	1.81	0.45
1:C:36:PRO:HG2	1:C:39:ILE:CG2	2.46	0.45
1:D:322:ARG:C	1:D:324:LEU:H	2.19	0.45
1:D:502:ARG:HD3	1:D:516:ASN:HA	1.96	0.45
1:D:1036:VAL:HG12	1:D:1037:ASP:N	2.31	0.45
1:E:36:PRO:HG2	1:E:39:ILE:CG2	2.46	0.45
1:E:458:LEU:HA	1:E:587:ARG:HH21	1.80	0.45
1:E:552:ASN:HB3	1:E:1226:TYR:CE1	2.48	0.45
1:E:656:ARG:HG2	1:E:657:MET:H	1.81	0.45
1:E:866:LYS:HE2	1:E:872:ARG:HH11	1.81	0.45
1:F:322:ARG:C	1:F:324:LEU:H	2.19	0.45
1:F:475:LEU:HA	1:F:478:ILE:HD12	1.99	0.45
1:F:1074:HIS:O	1:F:1075:SER:OG	2.33	0.45
1:F:1201:THR:OG1	1:F:1202:MET:N	2.48	0.45
1:H:597:HIS:CD2	1:H:598:GLN:H	2.34	0.45
1:H:604:ASN:ND2	1:H:929:VAL:H	2.04	0.45
1:H:841:PHE:O	1:H:842:LEU:HB2	2.16	0.45
1:I:91:PRO:O	1:I:94:THR:OG1	2.21	0.45
1:I:207:TRP:CH2	1:I:209:SER:HA	2.51	0.45
1:I:231:LEU:O	1:I:234:SER:OG	2.26	0.45
1:I:453:PHE:CE1	1:I:460:PRO:HB3	2.51	0.45
1:I:502:ARG:HD3	1:I:516:ASN:HA	1.96	0.45
1:I:656:ARG:HG2	1:I:657:MET:H	1.81	0.45
1:I:1201:THR:OG1	1:I:1202:MET:N	2.48	0.45
1:J:36:PRO:HG2	1:J:39:ILE:CG2	2.47	0.45
1:J:207:TRP:CH2	1:J:209:SER:HA	2.51	0.45
1:K:322:ARG:C	1:K:324:LEU:H	2.19	0.45
1:K:480:HIS:O	1:K:483:ARG:HG2	2.16	0.45
1:K:1036:VAL:HG12	1:K:1037:ASP:N	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:133:LYS:O	1:L:136:GLN:HB3	2.16	0.45
1:L:231:LEU:O	1:L:234:SER:OG	2.26	0.45
1:L:453:PHE:CE2	1:L:460:PRO:HB3	2.49	0.45
1:L:875:LEU:CD1	1:L:911:PHE:HD2	2.07	0.45
1:M:146:ASN:HB2	1:M:280:THR:HG22	1.98	0.45
1:M:222:HIS:CG	1:N:198:LYS:NZ	2.84	0.45
1:M:352:ILE:O	1:M:356:SER:OG	2.29	0.45
1:M:358:ASN:HA	1:M:366:ARG:NH2	2.31	0.45
1:M:656:ARG:HG2	1:M:657:MET:H	1.81	0.45
1:N:85:TYR:HB2	1:N:87:PHE:CE2	2.51	0.45
1:N:508:TRP:O	1:N:606:GLY:CA	2.63	0.45
1:N:597:HIS:CD2	1:N:598:GLN:H	2.34	0.45
1:N:656:ARG:HG2	1:N:657:MET:H	1.81	0.45
1:O:36:PRO:HG2	1:O:39:ILE:CG2	2.46	0.45
1:O:80:VAL:HA	1:O:83:ILE:HD12	1.98	0.45
1:O:361:GLU:HB2	1:O:364:GLU:HB3	1.98	0.45
1:O:458:LEU:HA	1:O:587:ARG:HH21	1.80	0.45
1:O:597:HIS:CD2	1:O:598:GLN:H	2.34	0.45
1:O:604:ASN:ND2	1:O:929:VAL:H	2.04	0.45
1:P:64:THR:O	1:P:67:SER:OG	2.27	0.45
1:P:85:TYR:HB2	1:P:87:PHE:CE2	2.51	0.45
1:P:475:LEU:HA	1:P:478:ILE:HD12	1.98	0.45
1:A:36:PRO:HG2	1:A:39:ILE:CG2	2.46	0.45
1:A:146:ASN:HB2	1:A:280:THR:HG22	1.98	0.45
1:A:508:TRP:O	1:A:606:GLY:CA	2.63	0.45
1:A:554:ILE:O	1:A:556:SER:N	2.46	0.45
1:B:358:ASN:HA	1:B:366:ARG:NH2	2.31	0.45
1:B:1036:VAL:HG12	1:B:1037:ASP:N	2.31	0.45
1:C:80:VAL:HA	1:C:83:ILE:HD12	1.98	0.45
1:C:633:THR:HG22	1:C:643:TYR:HA	1.97	0.45
1:D:458:LEU:HG	1:D:587:ARG:HH22	1.81	0.45
1:D:480:HIS:O	1:D:483:ARG:HG2	2.16	0.45
1:D:557:LYS:CD	1:D:1223:GLN:HE21	2.30	0.45
1:D:841:PHE:O	1:D:842:LEU:HB2	2.17	0.45
1:E:523:PHE:HD1	1:E:527:TYR:CE2	2.28	0.45
1:F:604:ASN:ND2	1:F:929:VAL:H	2.03	0.45
1:F:656:ARG:HG2	1:F:657:MET:H	1.81	0.45
1:F:1036:VAL:HG12	1:F:1037:ASP:N	2.31	0.45
1:G:85:TYR:HB2	1:G:87:PHE:CE2	2.51	0.45
1:G:127:ARG:HD3	1:G:292:LEU:HD12	1.98	0.45
1:G:597:HIS:CD2	1:G:598:GLN:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:633:THR:HG22	1:G:643:TYR:HA	1.97	0.45
1:H:322:ARG:C	1:H:324:LEU:H	2.19	0.45
1:H:475:LEU:HA	1:H:478:ILE:HD12	1.98	0.45
1:I:811:ASP:OD1	1:I:812:THR:N	2.46	0.45
1:J:133:LYS:O	1:J:136:GLN:HB3	2.16	0.45
1:J:841:PHE:O	1:J:842:LEU:HB2	2.16	0.45
1:K:382:PRO:HA	1:K:419:THR:CG2	2.36	0.45
1:K:557:LYS:CD	1:K:1223:GLN:HE21	2.30	0.45
1:L:11:GLN:O	1:L:14:ASP:N	2.46	0.45
1:M:475:LEU:HA	1:M:478:ILE:HD12	1.98	0.45
1:M:597:HIS:CD2	1:M:598:GLN:H	2.34	0.45
1:M:866:LYS:HE2	1:M:872:ARG:HH11	1.81	0.45
1:N:146:ASN:HB2	1:N:280:THR:HG22	1.98	0.45
1:N:361:GLU:HB2	1:N:364:GLU:HB3	1.98	0.45
1:N:458:LEU:CG	1:N:587:ARG:NH2	2.74	0.45
1:N:866:LYS:HE2	1:N:872:ARG:HH11	1.81	0.45
1:O:389:ILE:CD1	1:O:446:HIS:HE2	2.14	0.45
1:O:475:LEU:HA	1:O:478:ILE:HD12	1.98	0.45
1:O:841:PHE:O	1:O:842:LEU:HB2	2.17	0.45
1:P:102:MET:O	1:P:105:MET:N	2.46	0.45
1:P:633:THR:HG22	1:P:643:TYR:HA	1.97	0.45
1:B:127:ARG:HD3	1:B:292:LEU:HD12	1.98	0.45
1:B:146:ASN:HB2	1:B:280:THR:HG22	1.98	0.45
1:B:552:ASN:HB3	1:B:1226:TYR:CE1	2.48	0.45
1:B:597:HIS:CD2	1:B:598:GLN:H	2.34	0.45
1:B:866:LYS:HE2	1:B:872:ARG:HH11	1.81	0.45
1:B:1035:TYR:HA	1:B:1057:PRO:HG2	1.99	0.45
1:C:231:LEU:O	1:C:234:SER:OG	2.26	0.45
1:C:475:LEU:HA	1:C:478:ILE:HD12	1.98	0.45
1:C:557:LYS:NZ	1:C:1223:GLN:HG3	2.31	0.45
1:C:1036:VAL:HG12	1:C:1037:ASP:N	2.31	0.45
1:D:207:TRP:CH2	1:D:209:SER:HA	2.51	0.45
1:E:133:LYS:O	1:E:136:GLN:HB3	2.16	0.45
1:E:480:HIS:O	1:E:483:ARG:HG2	2.16	0.45
1:F:146:ASN:HB2	1:F:280:THR:HG22	1.98	0.45
1:F:458:LEU:HG	1:F:587:ARG:HH22	1.81	0.45
1:F:597:HIS:CD2	1:F:598:GLN:H	2.34	0.45
1:G:180:TRP:C	1:G:181:LEU:HD12	2.36	0.45
1:G:231:LEU:O	1:G:234:SER:OG	2.26	0.45
1:H:36:PRO:HG2	1:H:39:ILE:CG2	2.47	0.45
1:H:80:VAL:HA	1:H:83:ILE:HD12	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:127:ARG:HD3	1:H:292:LEU:HD12	1.98	0.45
1:H:225:GLN:HG3	1:H:258:LEU:HD22	1.98	0.45
1:H:389:ILE:CD1	1:H:446:HIS:HE2	2.14	0.45
1:H:491:PHE:CD1	1:H:491:PHE:N	2.83	0.45
1:H:1059:ASP:HB3	1:H:1071:ALA:HB3	1.98	0.45
1:I:117:ASN:O	1:I:118:GLN:C	2.53	0.45
1:I:458:LEU:HG	1:I:587:ARG:HH22	1.81	0.45
1:J:475:LEU:HA	1:J:478:ILE:HD12	1.98	0.45
1:K:458:LEU:HG	1:K:587:ARG:HH22	1.81	0.45
1:K:841:PHE:O	1:K:842:LEU:HB2	2.17	0.45
1:L:542:ILE:HA	1:L:545:PHE:HD2	1.82	0.45
1:L:557:LYS:NZ	1:L:1223:GLN:HG3	2.31	0.45
1:L:633:THR:HG22	1:L:643:TYR:HA	1.97	0.45
1:M:127:ARG:HD3	1:M:292:LEU:HD12	1.98	0.45
1:M:322:ARG:C	1:M:324:LEU:H	2.19	0.45
1:M:542:ILE:HA	1:M:545:PHE:HD2	1.81	0.45
1:M:552:ASN:HB3	1:M:1226:TYR:CE1	2.48	0.45
1:M:1036:VAL:HG12	1:M:1037:ASP:N	2.31	0.45
1:N:491:PHE:N	1:N:491:PHE:CD1	2.83	0.45
1:N:1075:SER:OG	1:N:1094:ASP:O	2.29	0.45
1:O:127:ARG:HD3	1:O:292:LEU:HD12	1.98	0.45
1:O:293:THR:HG22	1:O:295:ASP:H	1.80	0.45
1:O:480:HIS:O	1:O:483:ARG:HG2	2.16	0.45
1:O:491:PHE:N	1:O:491:PHE:CD1	2.83	0.45
1:P:382:PRO:HA	1:P:419:THR:CG2	2.36	0.45
1:P:523:PHE:HD1	1:P:527:TYR:CE2	2.28	0.45
1:P:656:ARG:HG2	1:P:657:MET:H	1.81	0.45
1:P:841:PHE:O	1:P:842:LEU:HB2	2.17	0.45
1:A:458:LEU:CG	1:A:587:ARG:NH2	2.74	0.45
1:A:662:GLN:O	1:A:663:GLN:HG2	2.17	0.45
1:B:80:VAL:HA	1:B:83:ILE:HD12	1.98	0.45
1:B:85:TYR:HB2	1:B:87:PHE:CE2	2.51	0.45
1:B:180:TRP:C	1:B:181:LEU:HD12	2.36	0.45
1:B:475:LEU:HA	1:B:478:ILE:HD12	1.98	0.45
1:B:542:ILE:HA	1:B:545:PHE:HD2	1.82	0.45
1:B:898:VAL:HG13	1:B:930:HIS:CD2	2.52	0.45
1:C:133:LYS:O	1:C:136:GLN:HB3	2.16	0.45
1:C:453:PHE:CE2	1:C:460:PRO:HB3	2.49	0.45
1:C:508:TRP:O	1:C:606:GLY:CA	2.63	0.45
1:C:543:LEU:O	1:C:547:PRO:HD2	2.16	0.45
1:C:597:HIS:CD2	1:C:598:GLN:H	2.34	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:898:VAL:HG13	1:C:930:HIS:CD2	2.52	0.45
1:D:458:LEU:HA	1:D:587:ARG:HH21	1.80	0.45
1:D:866:LYS:HE2	1:D:872:ARG:HH11	1.81	0.45
1:E:80:VAL:HA	1:E:83:ILE:HD12	1.98	0.45
1:E:597:HIS:CD2	1:E:598:GLN:H	2.34	0.45
1:E:902:ILE:HD13	1:E:930:HIS:CE1	2.43	0.45
1:E:1201:THR:OG1	1:E:1202:MET:N	2.48	0.45
1:F:36:PRO:HG2	1:F:39:ILE:CG2	2.46	0.45
1:F:392:ASP:OD1	1:F:393:VAL:N	2.47	0.45
1:F:453:PHE:CE1	1:F:460:PRO:HB3	2.51	0.45
1:F:502:ARG:HD3	1:F:516:ASN:HA	1.96	0.45
1:F:811:ASP:OD1	1:F:812:THR:N	2.47	0.45
1:F:1075:SER:OG	1:F:1094:ASP:O	2.29	0.45
1:G:102:MET:O	1:G:105:MET:N	2.46	0.45
1:G:293:THR:O	1:G:296:GLU:N	2.40	0.45
1:H:146:ASN:HB2	1:H:280:THR:HG22	1.98	0.45
1:H:293:THR:O	1:H:296:GLU:N	2.40	0.45
1:H:480:HIS:O	1:H:483:ARG:HG2	2.16	0.45
1:H:557:LYS:NZ	1:H:1223:GLN:HG3	2.31	0.45
1:I:1036:VAL:HG12	1:I:1037:ASP:N	2.31	0.45
1:J:80:VAL:HA	1:J:83:ILE:HD12	1.97	0.45
1:J:552:ASN:HB3	1:J:1226:TYR:CE1	2.48	0.45
1:J:557:LYS:CD	1:J:1223:GLN:HE21	2.30	0.45
1:K:207:TRP:CH2	1:K:209:SER:HA	2.51	0.45
1:K:502:ARG:HD3	1:K:516:ASN:HA	1.96	0.45
1:L:36:PRO:HG2	1:L:39:ILE:CG2	2.47	0.45
1:L:80:VAL:HA	1:L:83:ILE:HD12	1.97	0.45
1:L:117:ASN:O	1:L:118:GLN:C	2.53	0.45
1:L:508:TRP:O	1:L:606:GLY:CA	2.63	0.45
1:L:557:LYS:CD	1:L:1223:GLN:HE21	2.30	0.45
1:L:898:VAL:HG13	1:L:930:HIS:CD2	2.52	0.45
1:M:80:VAL:HA	1:M:83:ILE:HD12	1.98	0.45
1:M:376:PRO:HA	1:M:377:PRO:HD3	1.89	0.45
1:M:898:VAL:HG13	1:M:930:HIS:CD2	2.52	0.45
1:N:36:PRO:HG2	1:N:39:ILE:CG2	2.47	0.45
1:N:496:PHE:HE2	1:N:555:CYS:HG	1.64	0.45
1:N:662:GLN:O	1:N:663:GLN:HG2	2.17	0.45
1:N:1035:TYR:HA	1:N:1057:PRO:HG2	1.99	0.45
1:O:225:GLN:HG3	1:O:258:LEU:HD22	1.98	0.45
1:O:523:PHE:HD1	1:O:527:TYR:CE2	2.28	0.45
1:O:1059:ASP:HB3	1:O:1071:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:127:ARG:HD3	1:P:292:LEU:HD12	1.98	0.45
1:P:180:TRP:C	1:P:181:LEU:HD12	2.36	0.45
1:P:293:THR:O	1:P:296:GLU:N	2.40	0.45
1:P:597:HIS:CD2	1:P:598:GLN:H	2.34	0.45
1:A:322:ARG:C	1:A:324:LEU:H	2.19	0.45
1:A:361:GLU:HB2	1:A:364:GLU:HB3	1.98	0.45
1:A:496:PHE:HE2	1:A:555:CYS:HG	1.64	0.45
1:A:1075:SER:OG	1:A:1094:ASP:O	2.29	0.45
1:B:322:ARG:C	1:B:324:LEU:H	2.19	0.45
1:B:557:LYS:NZ	1:B:1223:GLN:HG3	2.31	0.45
1:C:511:SER:C	1:C:513:SER:N	2.61	0.45
1:C:542:ILE:HA	1:C:545:PHE:HD2	1.82	0.45
1:C:1035:TYR:HA	1:C:1057:PRO:HG2	1.99	0.45
1:D:382:PRO:HA	1:D:419:THR:CG2	2.36	0.45
1:D:475:LEU:HA	1:D:478:ILE:HD12	1.98	0.45
1:D:508:TRP:O	1:D:606:GLY:CA	2.63	0.45
1:D:597:HIS:CD2	1:D:598:GLN:H	2.34	0.45
1:E:443:ILE:HG21	1:E:477:ASN:ND2	2.24	0.45
1:E:475:LEU:HA	1:E:478:ILE:HD12	1.99	0.45
1:E:543:LEU:O	1:E:547:PRO:HD2	2.16	0.45
1:E:557:LYS:CD	1:E:1223:GLN:HE21	2.30	0.45
1:E:841:PHE:O	1:E:842:LEU:HB2	2.17	0.45
1:F:91:PRO:O	1:F:94:THR:OG1	2.21	0.45
1:G:557:LYS:NZ	1:G:1223:GLN:HG3	2.31	0.45
1:G:584:PHE:HB3	1:G:585:ASP:H	1.61	0.45
1:G:656:ARG:HG2	1:G:657:MET:H	1.81	0.45
1:G:841:PHE:O	1:G:842:LEU:HB2	2.17	0.45
1:H:130:PRO:HA	1:H:290:MET:HE3	1.98	0.45
1:H:293:THR:HG22	1:H:295:ASP:H	1.80	0.45
1:I:146:ASN:HB2	1:I:280:THR:HG22	1.98	0.45
1:I:597:HIS:CD2	1:I:598:GLN:H	2.34	0.45
1:J:336:ALA:O	1:J:337:THR:OG1	2.35	0.45
1:J:597:HIS:CD2	1:J:598:GLN:H	2.34	0.45
1:J:1201:THR:OG1	1:J:1202:MET:N	2.48	0.45
1:K:11:GLN:O	1:K:14:ASP:N	2.46	0.45
1:K:371:ARG:HB3	1:K:389:ILE:CG2	2.45	0.45
1:K:597:HIS:CD2	1:K:598:GLN:H	2.34	0.45
1:K:656:ARG:HG2	1:K:657:MET:H	1.81	0.45
1:K:866:LYS:HE2	1:K:872:ARG:HH11	1.81	0.45
1:L:127:ARG:HD3	1:L:292:LEU:HD12	1.98	0.45
1:L:480:HIS:O	1:L:483:ARG:HG2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:543:LEU:O	1:L:547:PRO:HD2	2.16	0.45
1:L:597:HIS:CD2	1:L:598:GLN:H	2.34	0.45
1:M:85:TYR:HB2	1:M:87:PHE:CE2	2.51	0.45
1:M:180:TRP:C	1:M:181:LEU:HD12	2.36	0.45
1:N:322:ARG:C	1:N:324:LEU:H	2.19	0.45
1:N:1036:VAL:HG12	1:N:1037:ASP:N	2.31	0.45
1:N:1177:TYR:HE2	1:O:916:LYS:HE2	1.81	0.45
1:O:146:ASN:HB2	1:O:280:THR:HG22	1.98	0.45
1:O:293:THR:O	1:O:296:GLU:N	2.40	0.45
1:O:322:ARG:C	1:O:324:LEU:H	2.19	0.45
1:P:146:ASN:HB2	1:P:280:THR:HG22	1.98	0.45
1:P:557:LYS:NZ	1:P:1223:GLN:HG3	2.31	0.45
1:P:604:ASN:ND2	1:P:929:VAL:H	2.04	0.45
1:A:180:TRP:C	1:A:181:LEU:HD12	2.36	0.45
1:A:269:LYS:HB3	1:A:407:LYS:O	2.17	0.45
1:A:898:VAL:HG13	1:A:930:HIS:CD2	2.52	0.45
1:A:1035:TYR:HA	1:A:1057:PRO:HG2	1.99	0.45
1:A:1036:VAL:HG12	1:A:1037:ASP:N	2.31	0.45
1:B:376:PRO:HA	1:B:377:PRO:HD3	1.89	0.45
1:B:641:ASP:OD1	1:B:642:THR:N	2.45	0.45
1:D:11:GLN:O	1:D:14:ASP:N	2.46	0.45
1:E:336:ALA:O	1:E:337:THR:OG1	2.35	0.45
1:E:633:THR:HG22	1:E:643:TYR:HA	1.97	0.45
1:E:999:ALA:HA	1:E:1019:LYS:HA	1.98	0.45
1:F:898:VAL:HG13	1:F:930:HIS:CD2	2.52	0.45
1:F:1059:ASP:HB3	1:F:1071:ALA:HB3	1.98	0.45
1:G:146:ASN:HB2	1:G:280:THR:HG22	1.98	0.45
1:G:322:ARG:C	1:G:324:LEU:H	2.19	0.45
1:G:523:PHE:HD1	1:G:527:TYR:CE2	2.28	0.45
1:G:604:ASN:ND2	1:G:929:VAL:H	2.04	0.45
1:G:1035:TYR:HA	1:G:1057:PRO:HG2	1.99	0.45
1:G:1201:THR:OG1	1:G:1202:MET:N	2.48	0.45
1:H:133:LYS:O	1:H:136:GLN:HB3	2.16	0.45
1:H:180:TRP:C	1:H:181:LEU:HD12	2.36	0.45
1:H:898:VAL:HG13	1:H:930:HIS:CD2	2.52	0.45
1:H:1035:TYR:HA	1:H:1057:PRO:HG2	1.99	0.45
1:I:36:PRO:HG2	1:I:39:ILE:CG2	2.46	0.45
1:I:225:GLN:HG3	1:I:258:LEU:HD22	1.98	0.45
1:I:317:LEU:C	1:I:318:THR:HG1	1.94	0.45
1:I:1059:ASP:HB3	1:I:1071:ALA:HB3	1.98	0.45
1:I:1075:SER:OG	1:I:1094:ASP:O	2.29	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:480:HIS:O	1:J:483:ARG:HG2	2.16	0.45
1:J:543:LEU:O	1:J:547:PRO:HD2	2.16	0.45
1:J:999:ALA:HA	1:J:1019:LYS:HA	1.98	0.45
1:K:117:ASN:O	1:K:118:GLN:C	2.53	0.45
1:K:475:LEU:HA	1:K:478:ILE:HD12	1.98	0.45
1:L:475:LEU:HA	1:L:478:ILE:HD12	1.98	0.45
1:L:511:SER:C	1:L:513:SER:N	2.60	0.45
1:M:170:VAL:O	1:M:173:LYS:N	2.48	0.45
1:M:225:GLN:HG3	1:M:258:LEU:HD22	1.98	0.45
1:M:641:ASP:OD1	1:M:642:THR:N	2.45	0.45
1:M:1035:TYR:HA	1:M:1057:PRO:HG2	1.99	0.45
1:N:457:ASP:OD2	1:N:458:LEU:HB2	2.17	0.45
1:N:898:VAL:HG13	1:N:930:HIS:CD2	2.52	0.45
1:O:133:LYS:O	1:O:136:GLN:HB3	2.16	0.45
1:O:249:ASN:O	1:O:251:APK:O	2.35	0.45
1:O:898:VAL:HG13	1:O:930:HIS:CD2	2.52	0.45
1:O:1035:TYR:HA	1:O:1057:PRO:HG2	1.99	0.45
1:P:322:ARG:C	1:P:324:LEU:H	2.19	0.45
1:P:1035:TYR:HA	1:P:1057:PRO:HG2	1.99	0.45
1:P:1201:THR:OG1	1:P:1202:MET:N	2.48	0.45
1:A:225:GLN:HG3	1:A:258:LEU:HD22	1.98	0.45
1:A:249:ASN:O	1:A:251:APK:O	2.35	0.45
1:A:457:ASP:OD2	1:A:458:LEU:HB2	2.17	0.45
1:A:480:HIS:O	1:A:483:ARG:HG2	2.16	0.45
1:A:782:CYS:HB3	1:A:816:LEU:HD13	1.99	0.45
1:B:170:VAL:O	1:B:173:LYS:N	2.48	0.45
1:B:225:GLN:HG3	1:B:258:LEU:HD22	1.98	0.45
1:B:480:HIS:O	1:B:483:ARG:HG2	2.16	0.45
1:B:508:TRP:O	1:B:606:GLY:CA	2.63	0.45
1:C:111:ASP:HB3	1:D:144:ALA:HB3	1.97	0.45
1:C:180:TRP:C	1:C:181:LEU:HD12	2.36	0.45
1:C:554:ILE:O	1:C:556:SER:N	2.45	0.45
1:C:557:LYS:CD	1:C:1223:GLN:HE21	2.30	0.45
1:D:117:ASN:O	1:D:118:GLN:C	2.53	0.45
1:D:269:LYS:HB3	1:D:407:LYS:O	2.17	0.45
1:D:371:ARG:HB3	1:D:389:ILE:CG2	2.45	0.45
1:D:557:LYS:NZ	1:D:1223:GLN:HG3	2.31	0.45
1:D:656:ARG:HG2	1:D:657:MET:H	1.81	0.45
1:E:337:THR:OG1	1:E:340:ASN:N	2.50	0.45
1:F:180:TRP:C	1:F:181:LEU:HD12	2.36	0.45
1:G:458:LEU:HG	1:G:587:ARG:HH22	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:1059:ASP:HB3	1:G:1071:ALA:HB3	1.98	0.45
1:H:249:ASN:O	1:H:251:APK:O	2.35	0.45
1:H:358:ASN:HA	1:H:366:ARG:NH2	2.31	0.45
1:H:523:PHE:HD1	1:H:527:TYR:CE2	2.28	0.45
1:H:662:GLN:O	1:H:663:GLN:HG2	2.17	0.45
1:I:336:ALA:O	1:I:337:THR:OG1	2.35	0.45
1:I:604:ASN:ND2	1:I:929:VAL:H	2.04	0.45
1:I:999:ALA:HA	1:I:1019:LYS:HA	1.98	0.45
1:I:1035:TYR:HA	1:I:1057:PRO:HG2	1.99	0.45
1:J:222:HIS:CG	1:K:198:LYS:NZ	2.84	0.45
1:J:337:THR:OG1	1:J:340:ASN:N	2.50	0.45
1:J:443:ILE:HG21	1:J:477:ASN:ND2	2.24	0.45
1:J:633:THR:HG22	1:J:643:TYR:HA	1.97	0.45
1:J:1188:LYS:HG3	1:J:1189:ALA:H	1.82	0.45
1:K:222:HIS:CD2	1:L:198:LYS:HG2	2.52	0.45
1:K:508:TRP:O	1:K:606:GLY:CA	2.63	0.45
1:L:180:TRP:C	1:L:181:LEU:HD12	2.36	0.45
1:L:1035:TYR:HA	1:L:1057:PRO:HG2	1.99	0.45
1:M:480:HIS:O	1:M:483:ARG:HG2	2.16	0.45
1:M:1201:THR:OG1	1:M:1202:MET:N	2.48	0.45
1:N:249:ASN:O	1:N:251:APK:O	2.35	0.45
1:N:269:LYS:HB3	1:N:407:LYS:O	2.17	0.45
1:N:480:HIS:O	1:N:483:ARG:HG2	2.16	0.45
1:N:782:CYS:HB3	1:N:816:LEU:HD13	1.99	0.45
1:O:269:LYS:HB3	1:O:407:LYS:O	2.17	0.45
1:O:557:LYS:NZ	1:O:1223:GLN:HG3	2.31	0.45
1:A:841:PHE:O	1:A:842:LEU:HB2	2.17	0.45
1:B:662:GLN:O	1:B:663:GLN:HG2	2.17	0.45
1:B:782:CYS:HB3	1:B:816:LEU:HD13	1.99	0.45
1:B:1098:LEU:HG	1:B:1111:GLU:HG2	1.98	0.45
1:B:1201:THR:OG1	1:B:1202:MET:N	2.48	0.45
1:D:127:ARG:HD3	1:D:292:LEU:HD12	1.98	0.45
1:D:337:THR:OG1	1:D:340:ASN:N	2.50	0.45
1:D:542:ILE:HA	1:D:545:PHE:HD2	1.82	0.45
1:E:451:LYS:CD	1:E:486:LEU:HD21	2.33	0.45
1:E:457:ASP:OD2	1:E:458:LEU:HB2	2.17	0.45
1:E:1188:LYS:HG3	1:E:1189:ALA:H	1.82	0.45
1:F:117:ASN:O	1:F:118:GLN:C	2.53	0.45
1:F:480:HIS:O	1:F:483:ARG:HG2	2.16	0.45
1:F:1035:TYR:HA	1:F:1057:PRO:HG2	1.99	0.45
1:G:382:PRO:HA	1:G:419:THR:CG2	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:491:PHE:N	1:G:491:PHE:CD1	2.83	0.45
1:H:269:LYS:HB3	1:H:407:LYS:O	2.17	0.45
1:H:656:ARG:HG2	1:H:657:MET:H	1.81	0.45
1:H:999:ALA:HA	1:H:1019:LYS:HA	1.98	0.45
1:I:557:LYS:CD	1:I:1223:GLN:HE21	2.30	0.45
1:J:457:ASP:OD2	1:J:458:LEU:HB2	2.17	0.45
1:K:127:ARG:HD3	1:K:292:LEU:HD12	1.98	0.45
1:K:269:LYS:HB3	1:K:407:LYS:O	2.17	0.45
1:K:458:LEU:HA	1:K:587:ARG:HH21	1.80	0.45
1:K:542:ILE:HA	1:K:545:PHE:HD2	1.82	0.45
1:K:557:LYS:NZ	1:K:1223:GLN:HG3	2.31	0.45
1:L:225:GLN:HG3	1:L:258:LEU:HD22	1.98	0.45
1:L:361:GLU:HB2	1:L:364:GLU:HB3	1.98	0.45
1:L:638:GLU:OE1	1:L:640:GLU:N	2.42	0.45
1:L:641:ASP:OD1	1:L:642:THR:N	2.45	0.45
1:L:782:CYS:HB3	1:L:816:LEU:HD13	1.99	0.45
1:L:841:PHE:O	1:L:842:LEU:HB2	2.17	0.45
1:M:269:LYS:HB3	1:M:407:LYS:O	2.17	0.45
1:M:508:TRP:O	1:M:606:GLY:CA	2.63	0.45
1:M:557:LYS:NZ	1:M:1223:GLN:HG3	2.32	0.45
1:M:662:GLN:O	1:M:663:GLN:HG2	2.17	0.45
1:M:782:CYS:HB3	1:M:816:LEU:HD13	1.99	0.45
1:N:225:GLN:HG3	1:N:258:LEU:HD22	1.98	0.45
1:N:462:TYR:OH	1:N:494:PHE:CZ	2.66	0.45
1:O:85:TYR:HB2	1:O:87:PHE:CE2	2.51	0.45
1:O:662:GLN:O	1:O:663:GLN:HG2	2.17	0.45
1:O:999:ALA:HA	1:O:1019:LYS:HA	1.98	0.45
1:P:458:LEU:HG	1:P:587:ARG:HH22	1.81	0.45
1:P:584:PHE:HB3	1:P:585:ASP:H	1.61	0.45
1:P:1059:ASP:HB3	1:P:1071:ALA:HB3	1.98	0.45
1:A:198:LYS:NZ	1:B:222:HIS:CD2	2.85	0.45
1:A:542:ILE:HA	1:A:545:PHE:HD2	1.82	0.45
1:A:999:ALA:HA	1:A:1019:LYS:HA	1.98	0.45
1:B:54:ALA:O	1:B:58:THR:N	2.48	0.45
1:B:457:ASP:OD2	1:B:458:LEU:HB2	2.17	0.45
1:C:322:ARG:C	1:C:324:LEU:H	2.19	0.45
1:C:324:LEU:HD12	1:C:324:LEU:HA	1.61	0.45
1:C:782:CYS:HB3	1:C:816:LEU:HD13	1.99	0.45
1:C:841:PHE:O	1:C:842:LEU:HB2	2.17	0.45
1:D:491:PHE:N	1:D:491:PHE:CD1	2.83	0.45
1:E:249:ASN:O	1:E:251:APK:O	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:458:LEU:HG	1:E:587:ARG:HH22	1.81	0.45
1:E:584:PHE:HB3	1:E:585:ASP:H	1.61	0.45
1:E:1035:TYR:HA	1:E:1057:PRO:HG2	1.99	0.45
1:E:1158:TYR:HE2	1:E:1160:ASN:HB2	1.82	0.45
1:F:225:GLN:HG3	1:F:258:LEU:HD22	1.98	0.45
1:F:231:LEU:O	1:F:234:SER:OG	2.26	0.45
1:F:999:ALA:HA	1:F:1019:LYS:HA	1.98	0.45
1:G:1188:LYS:HG3	1:G:1189:ALA:H	1.82	0.45
1:I:898:VAL:HG13	1:I:930:HIS:CD2	2.52	0.45
1:J:249:ASN:O	1:J:251:APK:O	2.35	0.45
1:J:542:ILE:HA	1:J:545:PHE:HD2	1.82	0.45
1:J:898:VAL:HG13	1:J:930:HIS:CD2	2.52	0.45
1:J:1035:TYR:HA	1:J:1057:PRO:HG2	1.99	0.45
1:K:80:VAL:HA	1:K:83:ILE:HD12	1.98	0.45
1:K:222:HIS:CD2	1:L:198:LYS:HZ2	2.30	0.45
1:K:337:THR:OG1	1:K:340:ASN:N	2.50	0.45
1:K:457:ASP:OD2	1:K:458:LEU:HB2	2.17	0.45
1:K:491:PHE:CD1	1:K:491:PHE:N	2.83	0.45
1:L:269:LYS:HB3	1:L:407:LYS:O	2.17	0.45
1:L:322:ARG:C	1:L:324:LEU:H	2.19	0.45
1:M:337:THR:OG1	1:M:340:ASN:N	2.50	0.45
1:M:457:ASP:OD2	1:M:458:LEU:HB2	2.17	0.45
1:N:180:TRP:C	1:N:181:LEU:HD12	2.36	0.45
1:N:542:ILE:HA	1:N:545:PHE:HD2	1.81	0.45
1:N:841:PHE:O	1:N:842:LEU:HB2	2.17	0.45
1:O:102:MET:O	1:O:105:MET:N	2.46	0.45
1:O:180:TRP:C	1:O:181:LEU:HD12	2.36	0.45
1:O:358:ASN:HA	1:O:366:ARG:NH2	2.31	0.45
1:P:491:PHE:CD1	1:P:491:PHE:N	2.83	0.45
1:A:127:ARG:HD3	1:A:292:LEU:HD12	1.98	0.45
1:A:341:TRP:O	1:A:341:TRP:CE3	2.70	0.45
1:A:458:LEU:CA	1:A:587:ARG:HH21	2.30	0.45
1:A:462:TYR:OH	1:A:494:PHE:CZ	2.66	0.45
1:A:641:ASP:OD1	1:A:642:THR:N	2.45	0.45
1:B:11:GLN:O	1:B:14:ASP:N	2.46	0.45
1:B:36:PRO:HG2	1:B:39:ILE:CG2	2.47	0.45
1:B:154:GLY:O	1:B:155:SER:OG	2.35	0.45
1:B:269:LYS:HB3	1:B:407:LYS:O	2.17	0.45
1:B:337:THR:OG1	1:B:340:ASN:N	2.50	0.45
1:B:462:TYR:OH	1:B:494:PHE:CZ	2.66	0.45
1:C:15:ILE:HD11	1:C:103:THR:HG21	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:225:GLN:HG3	1:C:258:LEU:HD22	1.98	0.45
1:C:269:LYS:HB3	1:C:407:LYS:O	2.17	0.45
1:D:249:ASN:O	1:D:251:APK:O	2.35	0.45
1:D:898:VAL:HG13	1:D:930:HIS:CD2	2.52	0.45
1:E:542:ILE:HA	1:E:545:PHE:HD2	1.82	0.45
1:E:662:GLN:O	1:E:663:GLN:HG2	2.17	0.45
1:E:898:VAL:HG13	1:E:930:HIS:CD2	2.52	0.45
1:F:1158:TYR:HE2	1:F:1160:ASN:HB2	1.82	0.45
1:G:866:LYS:HE2	1:G:872:ARG:HH11	1.81	0.45
1:H:85:TYR:HB2	1:H:87:PHE:CE2	2.51	0.45
1:H:292:LEU:HB2	1:H:319:THR:HB	1.99	0.45
1:H:1098:LEU:HG	1:H:1111:GLU:HG2	1.99	0.45
1:H:1158:TYR:HE2	1:H:1160:ASN:HB2	1.82	0.45
1:I:1158:TYR:HE2	1:I:1160:ASN:HB2	1.83	0.45
1:J:662:GLN:O	1:J:663:GLN:HG2	2.17	0.45
1:K:15:ILE:HD11	1:K:103:THR:HG21	1.99	0.45
1:K:249:ASN:O	1:K:251:APK:O	2.35	0.45
1:K:898:VAL:HG13	1:K:930:HIS:CD2	2.52	0.45
1:K:1158:TYR:HE2	1:K:1160:ASN:HB2	1.82	0.45
1:L:142:ARG:NH1	1:M:14:ASP:OD2	2.48	0.45
1:L:656:ARG:HG2	1:L:657:MET:H	1.81	0.45
1:M:36:PRO:HG2	1:M:39:ILE:CG2	2.46	0.45
1:M:54:ALA:O	1:M:58:THR:N	2.48	0.45
1:M:133:LYS:O	1:M:136:GLN:HB3	2.16	0.45
1:M:154:GLY:O	1:M:155:SER:OG	2.35	0.45
1:M:249:ASN:O	1:M:251:APK:O	2.35	0.45
1:M:371:ARG:HB3	1:M:389:ILE:CG2	2.45	0.45
1:M:458:LEU:CA	1:M:587:ARG:HH21	2.30	0.45
1:M:462:TYR:OH	1:M:494:PHE:CZ	2.66	0.45
1:N:458:LEU:CA	1:N:587:ARG:HH21	2.30	0.45
1:N:999:ALA:HA	1:N:1019:LYS:HA	1.98	0.45
1:O:292:LEU:HB2	1:O:319:THR:HB	1.99	0.45
1:O:656:ARG:HG2	1:O:657:MET:H	1.81	0.45
1:O:866:LYS:HE2	1:O:872:ARG:HH11	1.81	0.45
1:O:1098:LEU:HG	1:O:1111:GLU:HG2	1.99	0.45
1:O:1158:TYR:HE2	1:O:1160:ASN:HB2	1.82	0.45
1:P:458:LEU:CA	1:P:587:ARG:HH21	2.30	0.45
1:P:480:HIS:O	1:P:483:ARG:HG2	2.16	0.45
1:P:866:LYS:HE2	1:P:872:ARG:HH11	1.81	0.45
1:A:80:VAL:HA	1:A:83:ILE:HD12	1.98	0.44
1:A:157:LYS:N	2:A:1501:DTP:O2B	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:388:LEU:HB3	1:A:446:HIS:CE1	2.52	0.44
1:B:249:ASN:O	1:B:251:APK:O	2.35	0.44
1:B:371:ARG:HB3	1:B:389:ILE:CG2	2.45	0.44
1:B:388:LEU:HB3	1:B:446:HIS:CE1	2.52	0.44
1:B:491:PHE:N	1:B:491:PHE:CD1	2.83	0.44
1:B:1158:TYR:HE2	1:B:1160:ASN:HB2	1.83	0.44
1:C:154:GLY:O	1:C:155:SER:OG	2.35	0.44
1:C:317:LEU:O	1:C:318:THR:CB	2.61	0.44
1:C:361:GLU:HB2	1:C:364:GLU:HB3	1.98	0.44
1:C:638:GLU:OE1	1:C:640:GLU:N	2.42	0.44
1:C:1158:TYR:HE2	1:C:1160:ASN:HB2	1.82	0.44
1:D:15:ILE:HD11	1:D:103:THR:HG21	1.99	0.44
1:D:80:VAL:HA	1:D:83:ILE:HD12	1.98	0.44
1:D:457:ASP:OD2	1:D:458:LEU:HB2	2.17	0.44
1:D:641:ASP:OD1	1:D:642:THR:N	2.45	0.44
1:E:269:LYS:HB3	1:E:407:LYS:O	2.17	0.44
1:E:341:TRP:CE3	1:E:341:TRP:O	2.70	0.44
1:E:491:PHE:N	1:E:491:PHE:CD1	2.83	0.44
1:F:54:ALA:O	1:F:58:THR:N	2.48	0.44
1:F:269:LYS:HB3	1:F:407:LYS:O	2.17	0.44
1:F:361:GLU:HB2	1:F:364:GLU:HB3	1.98	0.44
1:F:1188:LYS:HG3	1:F:1189:ALA:H	1.82	0.44
1:G:15:ILE:HD11	1:G:103:THR:HG21	1.99	0.44
1:G:36:PRO:HG2	1:G:39:ILE:CG2	2.47	0.44
1:G:157:LYS:N	2:G:1501:DTP:O2B	2.51	0.44
1:G:207:TRP:CH2	1:G:209:SER:HA	2.51	0.44
1:G:392:ASP:OD1	1:G:393:VAL:N	2.47	0.44
1:G:458:LEU:CA	1:G:587:ARG:HH21	2.31	0.44
1:I:361:GLU:HB2	1:I:364:GLU:HB3	1.98	0.44
1:I:413:LYS:CD	1:I:422:ILE:O	2.61	0.44
1:I:480:HIS:O	1:I:483:ARG:HG2	2.16	0.44
1:I:1188:LYS:HG3	1:I:1189:ALA:H	1.82	0.44
1:J:269:LYS:HB3	1:J:407:LYS:O	2.17	0.44
1:J:292:LEU:HB2	1:J:319:THR:HB	1.99	0.44
1:J:458:LEU:HG	1:J:587:ARG:HH22	1.81	0.44
1:J:1158:TYR:HE2	1:J:1160:ASN:HB2	1.83	0.44
1:K:36:PRO:HG2	1:K:39:ILE:CG2	2.46	0.44
1:K:782:CYS:HB3	1:K:816:LEU:HD13	1.99	0.44
1:L:15:ILE:HD11	1:L:103:THR:HG21	1.99	0.44
1:L:157:LYS:N	2:L:1501:DTP:O1B	2.51	0.44
1:L:988:ASP:OD1	1:L:989:SER:N	2.43	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:11:GLN:O	1:M:14:ASP:N	2.46	0.44
1:M:1098:LEU:HG	1:M:1111:GLU:HG2	1.99	0.44
1:M:1158:TYR:HE2	1:M:1160:ASN:HB2	1.82	0.44
1:N:80:VAL:HA	1:N:83:ILE:HD12	1.98	0.44
1:N:127:ARG:HD3	1:N:292:LEU:HD12	1.98	0.44
1:N:157:LYS:N	2:N:1501:DTP:O1B	2.51	0.44
1:N:341:TRP:O	1:N:341:TRP:CE3	2.71	0.44
1:N:358:ASN:HA	1:N:366:ARG:NH2	2.31	0.44
1:N:641:ASP:OD1	1:N:642:THR:N	2.45	0.44
1:N:1158:TYR:HE2	1:N:1160:ASN:HB2	1.82	0.44
1:P:15:ILE:HD11	1:P:103:THR:HG21	1.99	0.44
1:P:36:PRO:HG2	1:P:39:ILE:CG2	2.46	0.44
1:P:207:TRP:CH2	1:P:209:SER:HA	2.51	0.44
1:P:392:ASP:OD1	1:P:393:VAL:N	2.47	0.44
1:P:1158:TYR:HE2	1:P:1160:ASN:HB2	1.82	0.44
1:P:1188:LYS:HG3	1:P:1189:ALA:H	1.82	0.44
1:A:194:GLU:OE2	1:B:216:ASN:ND2	2.50	0.44
1:A:1158:TYR:HE2	1:A:1160:ASN:HB2	1.83	0.44
1:B:133:LYS:O	1:B:136:GLN:HB3	2.16	0.44
1:B:293:THR:HG22	1:B:295:ASP:H	1.80	0.44
1:B:341:TRP:O	1:B:341:TRP:CE3	2.71	0.44
1:B:361:GLU:HB2	1:B:364:GLU:HB3	1.98	0.44
1:B:458:LEU:CA	1:B:587:ARG:HH21	2.31	0.44
1:B:841:PHE:O	1:B:842:LEU:HB2	2.17	0.44
1:C:480:HIS:O	1:C:483:ARG:HG2	2.16	0.44
1:C:656:ARG:HG2	1:C:657:MET:H	1.81	0.44
1:C:662:GLN:O	1:C:663:GLN:HG2	2.17	0.44
1:D:1035:TYR:HA	1:D:1057:PRO:HG2	1.99	0.44
1:D:1158:TYR:HE2	1:D:1160:ASN:HB2	1.83	0.44
1:E:292:LEU:HB2	1:E:319:THR:HB	1.99	0.44
1:E:641:ASP:OD1	1:E:642:THR:N	2.45	0.44
1:F:15:ILE:HD11	1:F:103:THR:HG21	1.99	0.44
1:F:557:LYS:CD	1:F:1223:GLN:HE21	2.30	0.44
1:G:337:THR:OG1	1:G:340:ASN:N	2.50	0.44
1:G:480:HIS:O	1:G:483:ARG:HG2	2.16	0.44
1:G:1158:TYR:HE2	1:G:1160:ASN:HB2	1.82	0.44
1:H:15:ILE:HD11	1:H:103:THR:HG21	1.99	0.44
1:H:102:MET:O	1:H:105:MET:N	2.46	0.44
1:H:341:TRP:CE3	1:H:341:TRP:O	2.71	0.44
1:H:782:CYS:HB3	1:H:816:LEU:HD13	1.99	0.44
1:H:866:LYS:HE2	1:H:872:ARG:HH11	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:1188:LYS:HG3	1:H:1189:ALA:H	1.82	0.44
1:I:180:TRP:C	1:I:181:LEU:HD12	2.36	0.44
1:I:249:ASN:O	1:I:251:APK:O	2.35	0.44
1:I:269:LYS:HB3	1:I:407:LYS:O	2.17	0.44
1:I:629:GLN:HG2	1:I:651:SER:H	1.83	0.44
1:J:15:ILE:HD11	1:J:103:THR:HG21	1.99	0.44
1:J:341:TRP:O	1:J:341:TRP:CE3	2.71	0.44
1:J:491:PHE:N	1:J:491:PHE:CD1	2.83	0.44
1:J:1098:LEU:HG	1:J:1111:GLU:HG2	1.99	0.44
1:K:144:ALA:HB3	1:L:111:ASP:HB3	1.99	0.44
1:K:1035:TYR:HA	1:K:1057:PRO:HG2	1.99	0.44
1:L:154:GLY:O	1:L:155:SER:OG	2.35	0.44
1:L:285:LEU:HD23	1:L:285:LEU:HA	1.74	0.44
1:L:1158:TYR:HE2	1:L:1160:ASN:HB2	1.82	0.44
1:M:388:LEU:HB3	1:M:446:HIS:CE1	2.53	0.44
1:M:491:PHE:N	1:M:491:PHE:CD1	2.83	0.44
1:N:388:LEU:HB3	1:N:446:HIS:CE1	2.52	0.44
1:N:1098:LEU:HG	1:N:1111:GLU:HG2	1.98	0.44
1:O:120:PHE:CE1	1:O:159:TRP:CE3	3.05	0.44
1:P:157:LYS:N	2:P:1501:DTP:O1B	2.51	0.44
1:P:269:LYS:HB3	1:P:407:LYS:O	2.17	0.44
1:P:337:THR:OG1	1:P:340:ASN:N	2.50	0.44
1:P:999:ALA:HA	1:P:1019:LYS:HA	1.98	0.44
1:A:122:LYS:HG3	1:B:276:SER:HB2	1.99	0.44
1:A:337:THR:OG1	1:A:340:ASN:N	2.50	0.44
1:A:358:ASN:HA	1:A:366:ARG:NH2	2.31	0.44
1:A:557:LYS:NZ	1:A:1223:GLN:HG3	2.32	0.44
1:A:629:GLN:HG2	1:A:651:SER:H	1.83	0.44
1:B:15:ILE:HD11	1:B:103:THR:HG21	1.99	0.44
1:B:292:LEU:HB2	1:B:319:THR:HB	1.99	0.44
1:C:157:LYS:N	2:C:1501:DTP:O2B	2.51	0.44
1:C:292:LEU:HB2	1:C:319:THR:HB	1.99	0.44
1:C:988:ASP:OD1	1:C:989:SER:N	2.43	0.44
1:D:36:PRO:HG2	1:D:39:ILE:CG2	2.46	0.44
1:D:341:TRP:O	1:D:341:TRP:CE3	2.70	0.44
1:D:417:GLU:O	1:D:417:GLU:HG2	2.18	0.44
1:D:782:CYS:HB3	1:D:816:LEU:HD13	1.99	0.44
1:E:15:ILE:HD11	1:E:103:THR:HG21	1.99	0.44
1:E:1098:LEU:HG	1:E:1111:GLU:HG2	1.99	0.44
1:F:266:THR:HG22	1:F:268:PHE:N	2.33	0.44
1:F:413:LYS:CD	1:F:422:ILE:O	2.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:457:ASP:OD2	1:F:458:LEU:HB2	2.17	0.44
1:F:557:LYS:NZ	1:F:1223:GLN:HG3	2.31	0.44
1:F:629:GLN:HG2	1:F:651:SER:H	1.83	0.44
1:F:957:ILE:HG13	1:F:1248:LEU:HD22	1.99	0.44
1:G:251:APK:H8	1:G:251:APK:H2'	1.74	0.44
1:G:341:TRP:O	1:G:341:TRP:CE3	2.70	0.44
1:G:440:HIS:O	1:G:444:VAL:HG23	2.18	0.44
1:G:999:ALA:HA	1:G:1019:LYS:HA	1.98	0.44
1:I:54:ALA:O	1:I:58:THR:N	2.48	0.44
1:I:122:LYS:HG3	1:P:276:SER:OG	2.16	0.44
1:I:266:THR:HG22	1:I:268:PHE:N	2.33	0.44
1:I:440:HIS:O	1:I:444:VAL:HG23	2.18	0.44
1:I:662:GLN:O	1:I:663:GLN:HG2	2.17	0.44
1:I:841:PHE:O	1:I:842:LEU:HB2	2.17	0.44
1:I:957:ILE:HG13	1:I:1248:LEU:HD22	1.99	0.44
1:J:200:LEU:HD12	1:J:200:LEU:HA	1.74	0.44
1:J:451:LYS:CD	1:J:486:LEU:HD21	2.33	0.44
1:J:584:PHE:HB3	1:J:585:ASP:H	1.61	0.44
1:K:341:TRP:CE3	1:K:341:TRP:O	2.70	0.44
1:K:417:GLU:HG2	1:K:417:GLU:O	2.18	0.44
1:K:641:ASP:OD1	1:K:642:THR:N	2.45	0.44
1:K:999:ALA:HA	1:K:1019:LYS:HA	1.98	0.44
1:K:1098:LEU:HG	1:K:1111:GLU:HG2	1.99	0.44
1:L:249:ASN:O	1:L:251:APK:O	2.35	0.44
1:L:457:ASP:OD2	1:L:458:LEU:HB2	2.17	0.44
1:L:662:GLN:O	1:L:663:GLN:HG2	2.17	0.44
1:M:20:GLU:HG3	1:M:21:ASP:N	2.33	0.44
1:M:292:LEU:HB2	1:M:319:THR:HB	1.99	0.44
1:M:293:THR:HG22	1:M:295:ASP:H	1.80	0.44
1:M:313:PRO:CG	1:M:338:TRP:CE2	2.94	0.44
1:M:341:TRP:CE3	1:M:341:TRP:O	2.71	0.44
1:M:361:GLU:HB2	1:M:364:GLU:HB3	1.98	0.44
1:M:633:THR:HG22	1:M:643:TYR:HA	1.97	0.44
1:M:841:PHE:O	1:M:842:LEU:HB2	2.17	0.44
1:N:629:GLN:HG2	1:N:651:SER:H	1.83	0.44
1:N:1188:LYS:HG3	1:N:1189:ALA:H	1.82	0.44
1:O:341:TRP:O	1:O:341:TRP:CE3	2.71	0.44
1:P:341:TRP:CE3	1:P:341:TRP:O	2.70	0.44
1:A:120:PHE:CE1	1:A:159:TRP:CE3	3.05	0.44
1:A:1098:LEU:HG	1:A:1111:GLU:HG2	1.99	0.44
1:B:20:GLU:HG3	1:B:21:ASP:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:313:PRO:CG	1:B:338:TRP:CE2	2.94	0.44
1:B:463:LEU:CD2	1:B:467:PHE:CD2	2.92	0.44
1:B:557:LYS:CD	1:B:1223:GLN:HE21	2.30	0.44
1:B:633:THR:HG22	1:B:643:TYR:HA	1.97	0.44
1:C:266:THR:HG22	1:C:268:PHE:N	2.33	0.44
1:C:457:ASP:OD2	1:C:458:LEU:HB2	2.17	0.44
1:D:154:GLY:O	1:D:155:SER:OG	2.35	0.44
1:D:462:TYR:CZ	1:D:494:PHE:CZ	3.03	0.44
1:D:999:ALA:HA	1:D:1019:LYS:HA	1.98	0.44
1:D:1098:LEU:HG	1:D:1111:GLU:HG2	1.99	0.44
1:E:234:SER:OG	1:E:235:LYS:N	2.51	0.44
1:E:458:LEU:CA	1:E:587:ARG:HH21	2.31	0.44
1:E:629:GLN:HG2	1:E:651:SER:H	1.83	0.44
1:E:782:CYS:HB3	1:E:816:LEU:HD13	1.99	0.44
1:F:249:ASN:O	1:F:251:APK:O	2.35	0.44
1:F:292:LEU:HB2	1:F:319:THR:HB	1.99	0.44
1:F:440:HIS:O	1:F:444:VAL:HG23	2.18	0.44
1:G:54:ALA:O	1:G:58:THR:N	2.48	0.44
1:G:249:ASN:O	1:G:251:APK:O	2.35	0.44
1:G:269:LYS:HB3	1:G:407:LYS:O	2.17	0.44
1:G:292:LEU:HB2	1:G:319:THR:HB	1.99	0.44
1:H:120:PHE:CE1	1:H:159:TRP:CE3	3.05	0.44
1:H:388:LEU:HB3	1:H:446:HIS:CE1	2.52	0.44
1:H:463:LEU:CD2	1:H:467:PHE:CD2	2.92	0.44
1:I:15:ILE:HD11	1:I:103:THR:HG21	1.99	0.44
1:I:292:LEU:HB2	1:I:319:THR:HB	1.99	0.44
1:I:458:LEU:HA	1:I:587:ARG:HH21	1.80	0.44
1:I:557:LYS:NZ	1:I:1223:GLN:HG3	2.31	0.44
1:I:1098:LEU:HG	1:I:1111:GLU:HG2	1.99	0.44
1:J:127:ARG:HD3	1:J:292:LEU:HD12	1.98	0.44
1:J:234:SER:OG	1:J:235:LYS:N	2.51	0.44
1:J:440:HIS:O	1:J:444:VAL:HG23	2.18	0.44
1:J:458:LEU:CA	1:J:587:ARG:HH21	2.31	0.44
1:J:782:CYS:HB3	1:J:816:LEU:HD13	1.99	0.44
1:K:154:GLY:O	1:K:155:SER:OG	2.35	0.44
1:L:292:LEU:HB2	1:L:319:THR:HB	2.00	0.44
1:L:1188:LYS:HG3	1:L:1189:ALA:H	1.82	0.44
1:M:15:ILE:HD11	1:M:103:THR:HG21	1.99	0.44
1:M:463:LEU:CD2	1:M:467:PHE:CD2	2.92	0.44
1:M:557:LYS:CD	1:M:1223:GLN:HE21	2.30	0.44
1:M:875:LEU:CD1	1:M:911:PHE:HD2	2.07	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1177:TYR:HE2	1:N:916:LYS:CE	2.30	0.44
1:N:15:ILE:HD11	1:N:103:THR:HG21	1.99	0.44
1:N:20:GLU:HG3	1:N:21:ASP:N	2.33	0.44
1:N:120:PHE:CE1	1:N:159:TRP:CE3	3.05	0.44
1:N:337:THR:OG1	1:N:340:ASN:N	2.50	0.44
1:N:557:LYS:NZ	1:N:1223:GLN:HG3	2.32	0.44
1:N:988:ASP:OD1	1:N:989:SER:N	2.43	0.44
1:O:15:ILE:HD11	1:O:103:THR:HG21	2.00	0.44
1:O:142:ARG:HH22	1:P:14:ASP:CG	2.21	0.44
1:O:388:LEU:HB3	1:O:446:HIS:CE1	2.52	0.44
1:O:457:ASP:OD2	1:O:458:LEU:HB2	2.17	0.44
1:P:292:LEU:HB2	1:P:319:THR:HB	1.99	0.44
1:P:440:HIS:O	1:P:444:VAL:HG23	2.18	0.44
1:A:15:ILE:HD11	1:A:103:THR:HG21	1.99	0.44
1:A:20:GLU:HG3	1:A:21:ASP:N	2.33	0.44
1:A:1188:LYS:HG3	1:A:1189:ALA:H	1.82	0.44
1:B:120:PHE:CE1	1:B:159:TRP:CE3	3.05	0.44
1:C:337:THR:OG1	1:C:340:ASN:N	2.50	0.44
1:D:409:SER:O	1:D:411:VAL:N	2.51	0.44
1:D:462:TYR:OH	1:D:494:PHE:CZ	2.66	0.44
1:E:20:GLU:HG3	1:E:21:ASP:N	2.33	0.44
1:E:127:ARG:HD3	1:E:292:LEU:HD12	1.97	0.44
1:E:417:GLU:HG2	1:E:417:GLU:O	2.18	0.44
1:E:440:HIS:O	1:E:444:VAL:HG23	2.18	0.44
1:F:234:SER:OG	1:F:235:LYS:N	2.51	0.44
1:F:662:GLN:O	1:F:663:GLN:HG2	2.17	0.44
1:F:1098:LEU:HG	1:F:1111:GLU:HG2	1.99	0.44
1:G:398:VAL:HG23	1:G:399:MET:N	2.28	0.44
1:G:799:ASN:C	1:G:800:THR:CG2	2.86	0.44
1:G:898:VAL:HG13	1:G:930:HIS:CD2	2.52	0.44
1:H:157:LYS:N	2:H:1501:DTP:O2B	2.51	0.44
1:H:266:THR:HG22	1:H:268:PHE:N	2.33	0.44
1:I:337:THR:OG1	1:I:340:ASN:N	2.50	0.44
1:J:557:LYS:NZ	1:J:1223:GLN:HG3	2.31	0.44
1:K:462:TYR:CZ	1:K:494:PHE:CZ	3.03	0.44
1:K:662:GLN:O	1:K:663:GLN:HG2	2.17	0.44
1:L:317:LEU:O	1:L:318:THR:CB	2.61	0.44
1:L:388:LEU:HB3	1:L:446:HIS:CE1	2.52	0.44
1:L:409:SER:O	1:L:411:VAL:N	2.51	0.44
1:L:417:GLU:O	1:L:417:GLU:HG2	2.18	0.44
1:M:120:PHE:CE1	1:M:159:TRP:CE3	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:20:GLU:HG3	1:O:21:ASP:N	2.33	0.44
1:O:157:LYS:N	2:O:1501:DTP:O1B	2.51	0.44
1:O:266:THR:HG22	1:O:268:PHE:N	2.33	0.44
1:O:782:CYS:HB3	1:O:816:LEU:HD13	1.99	0.44
1:O:1188:LYS:HG3	1:O:1189:ALA:H	1.82	0.44
1:P:249:ASN:O	1:P:251:APK:O	2.35	0.44
1:P:251:APK:H8	1:P:251:APK:H2'	1.73	0.44
1:P:398:VAL:HG23	1:P:399:MET:N	2.28	0.44
1:P:782:CYS:HB3	1:P:816:LEU:HD13	1.99	0.44
1:P:799:ASN:C	1:P:800:THR:CG2	2.86	0.44
1:P:988:ASP:OD1	1:P:989:SER:N	2.43	0.44
1:A:451:LYS:CD	1:A:486:LEU:HD21	2.33	0.44
1:A:557:LYS:CD	1:A:1223:GLN:HE21	2.30	0.44
1:B:453:PHE:CE2	1:B:460:PRO:HB3	2.49	0.44
1:B:554:ILE:O	1:B:556:SER:N	2.46	0.44
1:B:875:LEU:CD1	1:B:911:PHE:HD2	2.07	0.44
1:C:249:ASN:O	1:C:251:APK:O	2.35	0.44
1:C:409:SER:O	1:C:411:VAL:N	2.51	0.44
1:C:905:VAL:HG13	1:C:906:ASP:N	2.33	0.44
1:C:957:ILE:HG13	1:C:1248:LEU:HD22	1.99	0.44
1:C:1000:ILE:HD11	1:C:1014:ALA:HB3	2.00	0.44
1:C:1098:LEU:HG	1:C:1111:GLU:HG2	1.99	0.44
1:D:231:LEU:O	1:D:234:SER:OG	2.26	0.44
1:D:440:HIS:O	1:D:444:VAL:HG23	2.18	0.44
1:D:458:LEU:CA	1:D:587:ARG:HH21	2.30	0.44
1:E:557:LYS:NZ	1:E:1223:GLN:HG3	2.31	0.44
1:F:157:LYS:N	2:F:1501:DTP:O2B	2.51	0.44
1:F:463:LEU:CD2	1:F:467:PHE:CD2	2.92	0.44
1:F:491:PHE:N	1:F:491:PHE:CD1	2.83	0.44
1:F:782:CYS:HB3	1:F:816:LEU:HD13	1.99	0.44
1:F:841:PHE:O	1:F:842:LEU:HB2	2.16	0.44
1:G:409:SER:O	1:G:411:VAL:N	2.51	0.44
1:G:457:ASP:OD2	1:G:458:LEU:HB2	2.17	0.44
1:G:542:ILE:HA	1:G:545:PHE:HD2	1.82	0.44
1:G:988:ASP:OD1	1:G:989:SER:N	2.43	0.44
1:H:337:THR:OG1	1:H:340:ASN:N	2.50	0.44
1:H:417:GLU:HG2	1:H:417:GLU:O	2.18	0.44
1:H:457:ASP:OD2	1:H:458:LEU:HB2	2.17	0.44
1:H:458:LEU:CA	1:H:587:ARG:HH21	2.31	0.44
1:I:157:LYS:N	2:I:1501:DTP:O1B	2.51	0.44
1:I:234:SER:OG	1:I:235:LYS:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:457:ASP:OD2	1:I:458:LEU:HB2	2.17	0.44
1:I:782:CYS:HB3	1:I:816:LEU:HD13	1.99	0.44
1:J:629:GLN:HG2	1:J:651:SER:H	1.83	0.44
1:J:641:ASP:OD1	1:J:642:THR:N	2.45	0.44
1:K:409:SER:O	1:K:411:VAL:N	2.51	0.44
1:K:440:HIS:O	1:K:444:VAL:HG23	2.18	0.44
1:K:462:TYR:OH	1:K:494:PHE:CZ	2.66	0.44
1:L:182:ASN:HD22	1:L:245:LEU:HB2	1.83	0.44
1:L:266:THR:HG22	1:L:268:PHE:N	2.33	0.44
1:L:1000:ILE:HD11	1:L:1014:ALA:HB3	2.00	0.44
1:M:554:ILE:O	1:M:556:SER:N	2.46	0.44
1:N:54:ALA:O	1:N:58:THR:N	2.48	0.44
1:O:417:GLU:O	1:O:417:GLU:HG2	2.18	0.44
1:O:453:PHE:CE1	1:O:460:PRO:HB3	2.51	0.44
1:O:458:LEU:CA	1:O:587:ARG:HH21	2.30	0.44
1:P:54:ALA:O	1:P:58:THR:N	2.48	0.44
1:P:457:ASP:OD2	1:P:458:LEU:HB2	2.17	0.44
1:A:54:ALA:O	1:A:58:THR:N	2.48	0.44
1:B:266:THR:HG22	1:B:268:PHE:N	2.33	0.44
1:B:999:ALA:HA	1:B:1019:LYS:HA	1.98	0.44
1:B:1036:VAL:HG12	1:B:1037:ASP:H	1.83	0.44
1:C:102:MET:O	1:C:105:MET:N	2.46	0.44
1:C:182:ASN:HD22	1:C:245:LEU:HB2	1.83	0.44
1:D:264:LEU:HD23	1:D:264:LEU:HA	1.74	0.44
1:D:451:LYS:CD	1:D:486:LEU:HD21	2.33	0.44
1:E:120:PHE:CE1	1:E:159:TRP:CE3	3.05	0.44
1:E:157:LYS:N	2:E:1501:DTP:O2B	2.51	0.44
1:E:409:SER:O	1:E:411:VAL:N	2.51	0.44
1:E:508:TRP:O	1:E:606:GLY:CA	2.63	0.44
1:G:443:ILE:HG21	1:G:477:ASN:ND2	2.24	0.44
1:G:662:GLN:O	1:G:663:GLN:HG2	2.17	0.44
1:G:782:CYS:HB3	1:G:816:LEU:HD13	1.99	0.44
1:H:20:GLU:HG3	1:H:21:ASP:N	2.33	0.44
1:H:453:PHE:CE1	1:H:460:PRO:HB3	2.51	0.44
1:I:148:LEU:HD23	1:I:264:LEU:HB2	2.00	0.44
1:I:409:SER:O	1:I:411:VAL:N	2.51	0.44
1:I:458:LEU:CA	1:I:587:ARG:HH21	2.30	0.44
1:I:499:GLN:CD	1:I:516:ASN:HB3	2.38	0.44
1:I:866:LYS:HE2	1:I:872:ARG:HH11	1.81	0.44
1:J:20:GLU:HG3	1:J:21:ASP:N	2.33	0.44
1:J:120:PHE:CE1	1:J:159:TRP:CE3	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:417:GLU:HG2	1:J:417:GLU:O	2.18	0.44
1:K:231:LEU:O	1:K:234:SER:OG	2.26	0.44
1:L:341:TRP:O	1:L:341:TRP:CE3	2.70	0.44
1:L:905:VAL:HG13	1:L:906:ASP:N	2.33	0.44
1:M:266:THR:HG22	1:M:268:PHE:N	2.33	0.44
1:M:1036:VAL:HG12	1:M:1037:ASP:H	1.83	0.44
1:M:1192:SER:OG	1:M:1208:GLU:OE2	2.28	0.44
1:N:902:ILE:HD13	1:N:930:HIS:CE1	2.43	0.44
1:N:1036:VAL:HG12	1:N:1037:ASP:H	1.83	0.44
1:O:799:ASN:C	1:O:800:THR:CG2	2.86	0.44
1:O:879:SER:N	1:O:880:GLU:OE1	2.51	0.44
1:P:91:PRO:O	1:P:94:THR:OG1	2.21	0.44
1:P:409:SER:O	1:P:411:VAL:N	2.51	0.44
1:P:443:ILE:HG21	1:P:477:ASN:ND2	2.24	0.44
1:P:662:GLN:O	1:P:663:GLN:HG2	2.17	0.44
1:P:898:VAL:HG13	1:P:930:HIS:CD2	2.52	0.44
1:A:461:PRO:O	1:A:461:PRO:HG2	2.18	0.44
1:A:988:ASP:OD1	1:A:989:SER:N	2.43	0.44
1:C:97:ARG:HH22	1:L:97:ARG:NH2	2.14	0.44
1:D:157:LYS:N	2:D:1501:DTP:O2B	2.51	0.44
1:D:244:LEU:HD21	1:D:256:PHE:CD2	2.50	0.44
1:D:662:GLN:O	1:D:663:GLN:HG2	2.17	0.44
1:D:1000:ILE:HD11	1:D:1014:ALA:HB3	2.00	0.44
1:D:1036:VAL:HG12	1:D:1037:ASP:H	1.83	0.44
1:E:266:THR:HG22	1:E:268:PHE:N	2.33	0.44
1:E:463:LEU:CD2	1:E:467:PHE:HD2	2.31	0.44
1:E:799:ASN:C	1:E:800:THR:CG2	2.86	0.44
1:E:879:SER:N	1:E:880:GLU:OE1	2.51	0.44
1:F:337:THR:OG1	1:F:340:ASN:N	2.50	0.44
1:F:388:LEU:HB3	1:F:446:HIS:CE1	2.52	0.44
1:F:499:GLN:CD	1:F:516:ASN:HB3	2.39	0.44
1:F:866:LYS:HE2	1:F:872:ARG:HH11	1.81	0.44
1:G:20:GLU:HG3	1:G:21:ASP:N	2.33	0.44
1:G:388:LEU:HB3	1:G:446:HIS:CE1	2.52	0.44
1:H:54:ALA:O	1:H:58:THR:N	2.48	0.44
1:H:409:SER:O	1:H:411:VAL:N	2.51	0.44
1:H:440:HIS:O	1:H:444:VAL:HG23	2.18	0.44
1:H:542:ILE:HA	1:H:545:PHE:HD2	1.82	0.44
1:H:799:ASN:C	1:H:800:THR:CG2	2.86	0.44
1:H:879:SER:N	1:H:880:GLU:OE1	2.51	0.44
1:I:222:HIS:CG	1:J:198:LYS:NZ	2.86	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:988:ASP:OD1	1:I:989:SER:N	2.43	0.44
1:J:157:LYS:N	2:J:1501:DTP:O1B	2.51	0.44
1:J:266:THR:HG22	1:J:268:PHE:N	2.33	0.44
1:J:371:ARG:HB3	1:J:389:ILE:CG2	2.45	0.44
1:J:409:SER:O	1:J:411:VAL:N	2.51	0.44
1:J:799:ASN:C	1:J:800:THR:CG2	2.86	0.44
1:J:879:SER:N	1:J:880:GLU:OE1	2.51	0.44
1:K:157:LYS:N	2:K:1501:DTP:O1B	2.51	0.44
1:K:234:SER:OG	1:K:235:LYS:N	2.51	0.44
1:K:458:LEU:CA	1:K:587:ARG:HH21	2.31	0.44
1:K:629:GLN:HG2	1:K:651:SER:H	1.83	0.44
1:K:1036:VAL:HG12	1:K:1037:ASP:H	1.83	0.44
1:L:337:THR:OG1	1:L:340:ASN:N	2.50	0.44
1:L:999:ALA:HA	1:L:1019:LYS:HA	1.98	0.44
1:M:453:PHE:CE2	1:M:460:PRO:HB3	2.49	0.44
1:M:461:PRO:HG2	1:M:461:PRO:O	2.18	0.44
1:M:508:TRP:C	1:M:606:GLY:N	2.70	0.44
1:M:879:SER:N	1:M:880:GLU:OE1	2.51	0.44
1:M:999:ALA:HA	1:M:1019:LYS:HA	1.98	0.44
1:N:251:APK:H2'	1:N:251:APK:H8	1.74	0.44
1:N:276:SER:OG	1:O:122:LYS:HG3	2.18	0.44
1:N:382:PRO:HA	1:N:419:THR:CG2	2.36	0.44
1:N:461:PRO:O	1:N:461:PRO:HG2	2.18	0.44
1:N:557:LYS:CD	1:N:1223:GLN:HE21	2.30	0.44
1:O:54:ALA:O	1:O:58:THR:N	2.48	0.44
1:O:337:THR:OG1	1:O:340:ASN:N	2.50	0.44
1:O:409:SER:O	1:O:411:VAL:N	2.51	0.44
1:O:463:LEU:CD2	1:O:467:PHE:CD2	2.92	0.44
1:O:1036:VAL:HG12	1:O:1037:ASP:H	1.83	0.44
1:P:20:GLU:HG3	1:P:21:ASP:N	2.33	0.44
1:P:905:VAL:HG13	1:P:906:ASP:N	2.33	0.44
1:A:440:HIS:O	1:A:444:VAL:HG23	2.18	0.44
1:A:499:GLN:CD	1:A:516:ASN:HB3	2.38	0.44
1:A:902:ILE:HD13	1:A:930:HIS:CE1	2.43	0.44
1:A:1036:VAL:HG12	1:A:1037:ASP:H	1.83	0.44
1:B:317:LEU:O	1:B:318:THR:CB	2.61	0.44
1:B:409:SER:O	1:B:411:VAL:N	2.51	0.44
1:B:508:TRP:C	1:B:606:GLY:N	2.70	0.44
1:B:879:SER:N	1:B:880:GLU:OE1	2.51	0.44
1:C:341:TRP:CE3	1:C:341:TRP:O	2.70	0.44
1:C:388:LEU:HB3	1:C:446:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:417:GLU:HG2	1:C:417:GLU:O	2.18	0.44
1:C:461:PRO:O	1:C:461:PRO:HG2	2.18	0.44
1:C:862:ILE:HG23	1:C:863:THR:H	1.83	0.44
1:C:879:SER:N	1:C:880:GLU:OE1	2.51	0.44
1:D:234:SER:OG	1:D:235:LYS:N	2.51	0.44
1:D:266:THR:HG22	1:D:268:PHE:N	2.33	0.44
1:D:629:GLN:HG2	1:D:651:SER:H	1.83	0.44
1:E:154:GLY:O	1:E:155:SER:OG	2.35	0.44
1:E:373:SER:CB	1:E:433:LEU:CD1	2.73	0.44
1:E:646:ARG:HG3	1:E:648:GLU:HG3	2.00	0.44
1:E:1139:ASP:O	1:E:1140:SER:OG	2.35	0.44
1:F:409:SER:O	1:F:411:VAL:N	2.51	0.44
1:F:458:LEU:CA	1:F:587:ARG:HH21	2.30	0.44
1:F:799:ASN:C	1:F:800:THR:CG2	2.86	0.44
1:G:91:PRO:O	1:G:94:THR:OG1	2.21	0.44
1:G:122:LYS:O	1:G:303:LYS:NZ	2.38	0.44
1:G:148:LEU:HD23	1:G:264:LEU:HB2	2.00	0.44
1:G:629:GLN:HG2	1:G:651:SER:H	1.83	0.44
1:G:905:VAL:HG13	1:G:906:ASP:N	2.33	0.44
1:H:148:LEU:HD23	1:H:264:LEU:HB2	2.00	0.44
1:H:182:ASN:HD22	1:H:245:LEU:HB2	1.83	0.44
1:I:491:PHE:N	1:I:491:PHE:CD1	2.83	0.44
1:I:799:ASN:C	1:I:800:THR:CG2	2.86	0.44
1:I:905:VAL:HG13	1:I:906:ASP:N	2.33	0.44
1:J:154:GLY:O	1:J:155:SER:OG	2.35	0.44
1:J:276:SER:OG	1:K:122:LYS:HG3	2.18	0.44
1:J:463:LEU:CD2	1:J:467:PHE:HD2	2.31	0.44
1:J:508:TRP:O	1:J:606:GLY:CA	2.63	0.44
1:J:646:ARG:HG3	1:J:648:GLU:HG3	2.00	0.44
1:K:463:LEU:CD2	1:K:467:PHE:HD2	2.31	0.44
1:K:1000:ILE:HD11	1:K:1014:ALA:HB3	2.00	0.44
1:K:1188:LYS:HG3	1:K:1189:ALA:H	1.82	0.44
1:L:862:ILE:HG23	1:L:863:THR:H	1.83	0.44
1:L:957:ILE:HG13	1:L:1248:LEU:HD22	1.99	0.44
1:M:317:LEU:O	1:M:318:THR:CB	2.61	0.44
1:M:453:PHE:CE1	1:M:460:PRO:HB3	2.51	0.44
1:N:154:GLY:O	1:N:155:SER:OG	2.35	0.44
1:O:148:LEU:HD23	1:O:264:LEU:HB2	2.00	0.44
1:O:182:ASN:HD22	1:O:245:LEU:HB2	1.83	0.44
1:O:243:VAL:HG13	1:O:263:LEU:HD22	2.00	0.44
1:O:440:HIS:O	1:O:444:VAL:HG23	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:388:LEU:HB3	1:P:446:HIS:CE1	2.52	0.44
1:P:417:GLU:HG2	1:P:417:GLU:O	2.18	0.44
1:P:458:LEU:HA	1:P:587:ARG:HH21	1.80	0.44
1:P:542:ILE:HA	1:P:545:PHE:HD2	1.82	0.44
1:A:154:GLY:O	1:A:155:SER:OG	2.35	0.43
1:B:243:VAL:HG13	1:B:263:LEU:HD22	2.00	0.43
1:B:461:PRO:HG2	1:B:461:PRO:O	2.18	0.43
1:C:20:GLU:HG3	1:C:21:ASP:N	2.33	0.43
1:C:120:PHE:CE1	1:C:159:TRP:CE3	3.05	0.43
1:C:243:VAL:HG13	1:C:263:LEU:HD22	2.00	0.43
1:C:491:PHE:N	1:C:491:PHE:CD1	2.83	0.43
1:C:543:LEU:HA	1:C:546:LEU:CD1	2.48	0.43
1:C:915:TYR:CE2	1:C:916:LYS:HE3	2.53	0.43
1:C:1188:LYS:HG3	1:C:1189:ALA:H	1.82	0.43
1:D:182:ASN:HD22	1:D:245:LEU:HB2	1.83	0.43
1:D:463:LEU:CD2	1:D:467:PHE:HD2	2.31	0.43
1:D:905:VAL:HG13	1:D:906:ASP:N	2.33	0.43
1:D:1188:LYS:HG3	1:D:1189:ALA:H	1.82	0.43
1:E:200:LEU:HD12	1:E:200:LEU:HA	1.74	0.43
1:E:201:TYR:CE2	1:F:223:SER:OG	2.70	0.43
1:E:1000:ILE:HD11	1:E:1014:ALA:HB3	2.00	0.43
1:F:148:LEU:HD23	1:F:264:LEU:HB2	2.00	0.43
1:F:341:TRP:O	1:F:341:TRP:CE3	2.71	0.43
1:G:458:LEU:HA	1:G:587:ARG:HH21	1.80	0.43
1:G:1036:VAL:HG12	1:G:1037:ASP:H	1.83	0.43
1:G:1098:LEU:HG	1:G:1111:GLU:HG2	1.99	0.43
1:H:1036:VAL:HG12	1:H:1037:ASP:H	1.83	0.43
1:I:341:TRP:O	1:I:341:TRP:CE3	2.71	0.43
1:J:862:ILE:HG23	1:J:863:THR:H	1.83	0.43
1:J:1000:ILE:HD11	1:J:1014:ALA:HB3	2.00	0.43
1:K:244:LEU:HD21	1:K:256:PHE:CD2	2.51	0.43
1:K:799:ASN:C	1:K:800:THR:CG2	2.86	0.43
1:K:905:VAL:HG13	1:K:906:ASP:N	2.33	0.43
1:K:1192:SER:OG	1:K:1208:GLU:OE2	2.28	0.43
1:L:243:VAL:HG13	1:L:263:LEU:HD22	2.00	0.43
1:L:491:PHE:N	1:L:491:PHE:CD1	2.83	0.43
1:L:879:SER:N	1:L:880:GLU:OE1	2.51	0.43
1:L:915:TYR:CE2	1:L:916:LYS:HE3	2.53	0.43
1:M:157:LYS:N	2:M:1501:DTP:O1B	2.51	0.43
1:M:243:VAL:HG13	1:M:263:LEU:HD22	2.00	0.43
1:M:409:SER:O	1:M:411:VAL:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:MET:O	1:N:105:MET:N	2.46	0.43
1:N:440:HIS:O	1:N:444:VAL:HG23	2.18	0.43
1:O:499:GLN:CD	1:O:516:ASN:HB3	2.38	0.43
1:O:542:ILE:HA	1:O:545:PHE:HD2	1.82	0.43
1:P:148:LEU:HD23	1:P:264:LEU:HB2	2.00	0.43
1:P:244:LEU:HD21	1:P:256:PHE:CD2	2.51	0.43
1:P:629:GLN:HG2	1:P:651:SER:H	1.83	0.43
1:P:1036:VAL:HG12	1:P:1037:ASP:H	1.83	0.43
1:A:292:LEU:HB2	1:A:319:THR:HB	1.99	0.43
1:A:957:ILE:HG13	1:A:1248:LEU:HD22	1.99	0.43
1:B:157:LYS:N	2:B:1501:DTP:O2B	2.51	0.43
1:B:453:PHE:CE1	1:B:460:PRO:HB3	2.51	0.43
1:B:543:LEU:HA	1:B:546:LEU:CD1	2.49	0.43
1:B:629:GLN:HG2	1:B:651:SER:H	1.83	0.43
1:B:905:VAL:HG13	1:B:906:ASP:N	2.33	0.43
1:B:957:ILE:HG13	1:B:1248:LEU:HD22	1.99	0.43
1:B:1192:SER:OG	1:B:1208:GLU:OE2	2.28	0.43
1:C:999:ALA:HA	1:C:1019:LYS:HA	1.98	0.43
1:D:97:ARG:NH2	1:M:97:ARG:NH2	2.66	0.43
1:D:122:LYS:HG3	1:E:276:SER:CB	2.49	0.43
1:E:182:ASN:HD22	1:E:245:LEU:HB2	1.83	0.43
1:E:388:LEU:HB3	1:E:446:HIS:CE1	2.52	0.43
1:E:862:ILE:HG23	1:E:863:THR:H	1.84	0.43
1:E:957:ILE:HG13	1:E:1248:LEU:HD22	1.99	0.43
1:E:1036:VAL:HG12	1:E:1037:ASP:H	1.83	0.43
1:F:122:LYS:O	1:F:303:LYS:NZ	2.38	0.43
1:F:200:LEU:HA	1:F:200:LEU:HD12	1.74	0.43
1:F:554:ILE:O	1:F:556:SER:N	2.45	0.43
1:F:902:ILE:HD13	1:F:930:HIS:CE1	2.43	0.43
1:F:905:VAL:HG13	1:F:906:ASP:N	2.33	0.43
1:F:915:TYR:CE2	1:F:916:LYS:HE3	2.54	0.43
1:G:234:SER:OG	1:G:235:LYS:N	2.51	0.43
1:G:244:LEU:HD21	1:G:256:PHE:CD2	2.51	0.43
1:G:417:GLU:O	1:G:417:GLU:HG2	2.18	0.43
1:G:557:LYS:CD	1:G:1223:GLN:HE21	2.30	0.43
1:H:243:VAL:HG13	1:H:263:LEU:HD22	2.00	0.43
1:H:392:ASP:OD1	1:H:393:VAL:N	2.47	0.43
1:H:499:GLN:CD	1:H:516:ASN:HB3	2.38	0.43
1:I:120:PHE:CE1	1:I:159:TRP:CE3	3.05	0.43
1:I:182:ASN:HD22	1:I:245:LEU:HB2	1.83	0.43
1:I:443:ILE:HG13	1:I:477:ASN:ND2	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:463:LEU:CD2	1:I:467:PHE:CD2	2.92	0.43
1:I:915:TYR:CE2	1:I:916:LYS:HE3	2.53	0.43
1:J:182:ASN:HD22	1:J:245:LEU:HB2	1.83	0.43
1:J:388:LEU:HB3	1:J:446:HIS:CE1	2.52	0.43
1:J:957:ILE:HG13	1:J:1248:LEU:HD22	1.99	0.43
1:K:20:GLU:HG3	1:K:21:ASP:N	2.33	0.43
1:K:73:VAL:O	1:K:76:PHE:N	2.52	0.43
1:K:182:ASN:HD22	1:K:245:LEU:HB2	1.83	0.43
1:K:264:LEU:HD23	1:K:264:LEU:HA	1.74	0.43
1:K:266:THR:HG22	1:K:268:PHE:N	2.33	0.43
1:L:120:PHE:CE1	1:L:159:TRP:CE3	3.05	0.43
1:L:152:VAL:O	1:L:155:SER:OG	2.29	0.43
1:L:443:ILE:HG13	1:L:477:ASN:ND2	2.34	0.43
1:L:461:PRO:HG2	1:L:461:PRO:O	2.18	0.43
1:L:543:LEU:HA	1:L:546:LEU:CD1	2.48	0.43
1:L:799:ASN:C	1:L:800:THR:CG2	2.86	0.43
1:L:1098:LEU:HG	1:L:1111:GLU:HG2	1.99	0.43
1:M:443:ILE:HG13	1:M:477:ASN:ND2	2.34	0.43
1:M:517:THR:HA	1:M:520:GLN:OE1	2.18	0.43
1:M:629:GLN:HG2	1:M:651:SER:H	1.83	0.43
1:M:905:VAL:HG13	1:M:906:ASP:N	2.33	0.43
1:M:957:ILE:HG13	1:M:1248:LEU:HD22	1.99	0.43
1:N:148:LEU:HD23	1:N:264:LEU:HB2	2.00	0.43
1:N:266:THR:HG22	1:N:268:PHE:N	2.33	0.43
1:N:451:LYS:CD	1:N:486:LEU:HD21	2.33	0.43
1:N:499:GLN:CD	1:N:516:ASN:HB3	2.39	0.43
1:N:957:ILE:HG13	1:N:1248:LEU:HD22	1.99	0.43
1:N:1000:ILE:HD11	1:N:1014:ALA:HB3	2.00	0.43
1:P:154:GLY:O	1:P:155:SER:OG	2.35	0.43
1:P:234:SER:OG	1:P:235:LYS:N	2.51	0.43
1:P:1098:LEU:HG	1:P:1111:GLU:HG2	1.99	0.43
1:A:102:MET:O	1:A:105:MET:N	2.46	0.43
1:A:243:VAL:HG13	1:A:263:LEU:HD22	2.00	0.43
1:A:266:THR:HG22	1:A:268:PHE:N	2.33	0.43
1:A:285:LEU:HD23	1:A:285:LEU:HA	1.74	0.43
1:A:382:PRO:HA	1:A:419:THR:CG2	2.36	0.43
1:A:799:ASN:C	1:A:800:THR:CG2	2.86	0.43
1:A:879:SER:N	1:A:880:GLU:OE1	2.51	0.43
1:A:1000:ILE:HD11	1:A:1014:ALA:HB3	2.00	0.43
1:B:443:ILE:HG13	1:B:477:ASN:ND2	2.34	0.43
1:B:517:THR:HA	1:B:520:GLN:OE1	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:443:ILE:HG13	1:C:477:ASN:ND2	2.34	0.43
1:C:875:LEU:CD1	1:C:911:PHE:HD2	2.07	0.43
1:D:73:VAL:O	1:D:76:PHE:N	2.52	0.43
1:D:799:ASN:C	1:D:800:THR:CG2	2.86	0.43
1:E:148:LEU:HD23	1:E:264:LEU:HB2	2.00	0.43
1:E:905:VAL:HG13	1:E:906:ASP:N	2.33	0.43
1:F:120:PHE:CE1	1:F:159:TRP:CE3	3.05	0.43
1:F:443:ILE:HG13	1:F:477:ASN:ND2	2.34	0.43
1:F:542:ILE:HA	1:F:545:PHE:HD2	1.82	0.43
1:F:638:GLU:OE1	1:F:640:GLU:N	2.42	0.43
1:F:1036:VAL:HG12	1:F:1037:ASP:H	1.83	0.43
1:G:154:GLY:O	1:G:155:SER:OG	2.35	0.43
1:G:200:LEU:HA	1:G:200:LEU:HD12	1.74	0.43
1:H:443:ILE:HG13	1:H:477:ASN:ND2	2.34	0.43
1:H:553:LEU:HD23	1:H:553:LEU:HA	1.90	0.43
1:H:557:LYS:CD	1:H:1223:GLN:HE21	2.30	0.43
1:I:200:LEU:HD12	1:I:200:LEU:HA	1.74	0.43
1:J:461:PRO:HG2	1:J:461:PRO:O	2.18	0.43
1:J:905:VAL:HG13	1:J:906:ASP:N	2.33	0.43
1:J:1036:VAL:HG12	1:J:1037:ASP:H	1.83	0.43
1:J:1139:ASP:O	1:J:1140:SER:OG	2.35	0.43
1:J:1192:SER:OG	1:J:1208:GLU:OE2	2.28	0.43
1:L:200:LEU:HA	1:L:200:LEU:HD12	1.74	0.43
1:M:543:LEU:HA	1:M:546:LEU:CD1	2.49	0.43
1:M:799:ASN:C	1:M:800:THR:CG2	2.86	0.43
1:N:243:VAL:HG13	1:N:263:LEU:HD22	2.00	0.43
1:N:543:LEU:HA	1:N:546:LEU:CD1	2.48	0.43
1:N:799:ASN:C	1:N:800:THR:CG2	2.86	0.43
1:O:392:ASP:OD1	1:O:393:VAL:N	2.47	0.43
1:O:443:ILE:HG13	1:O:477:ASN:ND2	2.34	0.43
1:O:957:ILE:HG13	1:O:1248:LEU:HD22	1.99	0.43
1:P:557:LYS:CD	1:P:1223:GLN:HE21	2.30	0.43
1:P:879:SER:N	1:P:880:GLU:OE1	2.51	0.43
1:A:182:ASN:HD22	1:A:245:LEU:HB2	1.83	0.43
1:A:417:GLU:O	1:A:417:GLU:HG2	2.18	0.43
1:A:543:LEU:HA	1:A:546:LEU:CD1	2.49	0.43
1:B:799:ASN:C	1:B:800:THR:CG2	2.86	0.43
1:C:799:ASN:C	1:C:800:THR:CG2	2.86	0.43
1:C:901:HIS:O	1:C:902:ILE:HB	2.18	0.43
1:D:20:GLU:HG3	1:D:21:ASP:N	2.33	0.43
1:D:361:GLU:HB2	1:D:364:GLU:HB3	1.98	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:388:LEU:HB3	1:D:446:HIS:CE1	2.52	0.43
1:D:879:SER:N	1:D:880:GLU:OE1	2.51	0.43
1:E:54:ALA:O	1:E:57:GLY:N	2.52	0.43
1:E:73:VAL:O	1:E:76:PHE:N	2.52	0.43
1:E:243:VAL:C	1:E:244:LEU:HD12	2.39	0.43
1:F:182:ASN:HD22	1:F:245:LEU:HB2	1.83	0.43
1:F:251:APK:H8	1:F:251:APK:H2'	1.73	0.43
1:F:1000:ILE:HD11	1:F:1014:ALA:HB3	2.00	0.43
1:G:266:THR:HG22	1:G:268:PHE:N	2.33	0.43
1:G:453:PHE:CE2	1:G:460:PRO:HB3	2.49	0.43
1:G:903:GLU:HG3	1:G:904:CYS:H	1.84	0.43
1:H:451:LYS:CD	1:H:486:LEU:HD21	2.33	0.43
1:H:461:PRO:O	1:H:461:PRO:HG2	2.18	0.43
1:H:543:LEU:HA	1:H:546:LEU:CD1	2.49	0.43
1:H:957:ILE:HG13	1:H:1248:LEU:HD22	1.99	0.43
1:I:54:ALA:O	1:I:57:GLY:N	2.52	0.43
1:I:73:VAL:O	1:I:76:PHE:N	2.52	0.43
1:I:388:LEU:HB3	1:I:446:HIS:CE1	2.52	0.43
1:I:542:ILE:HA	1:I:545:PHE:HD2	1.82	0.43
1:I:1036:VAL:HG12	1:I:1037:ASP:H	1.83	0.43
1:J:54:ALA:O	1:J:57:GLY:N	2.52	0.43
1:J:73:VAL:O	1:J:76:PHE:N	2.52	0.43
1:J:148:LEU:HD23	1:J:264:LEU:HB2	2.00	0.43
1:J:243:VAL:C	1:J:244:LEU:HD12	2.39	0.43
1:K:292:LEU:HB2	1:K:319:THR:HB	2.00	0.43
1:K:361:GLU:HB2	1:K:364:GLU:HB3	1.98	0.43
1:K:388:LEU:HB3	1:K:446:HIS:CE1	2.52	0.43
1:K:399:MET:HG3	1:L:335:LEU:HD21	1.99	0.43
1:K:499:GLN:CD	1:K:516:ASN:HB3	2.38	0.43
1:K:879:SER:N	1:K:880:GLU:OE1	2.51	0.43
1:L:73:VAL:O	1:L:76:PHE:N	2.52	0.43
1:L:102:MET:O	1:L:105:MET:N	2.46	0.43
1:L:124:ASN:HA	2:L:1501:DTP:C2	2.49	0.43
1:L:440:HIS:O	1:L:444:VAL:HG23	2.18	0.43
1:M:231:LEU:O	1:M:234:SER:OG	2.26	0.43
1:N:54:ALA:O	1:N:57:GLY:N	2.52	0.43
1:N:292:LEU:HB2	1:N:319:THR:HB	1.99	0.43
1:N:417:GLU:O	1:N:417:GLU:HG2	2.18	0.43
1:N:879:SER:N	1:N:880:GLU:OE1	2.51	0.43
1:N:903:GLU:HG3	1:N:904:CYS:H	1.84	0.43
1:N:1177:TYR:HE2	1:O:916:LYS:CE	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:154:GLY:O	1:O:155:SER:OG	2.35	0.43
1:O:301:LEU:CD2	1:O:313:PRO:CG	2.87	0.43
1:O:461:PRO:HG2	1:O:461:PRO:O	2.18	0.43
1:O:557:LYS:CD	1:O:1223:GLN:HE21	2.30	0.43
1:O:905:VAL:HG13	1:O:906:ASP:N	2.33	0.43
1:P:200:LEU:HA	1:P:200:LEU:HD12	1.74	0.43
1:A:54:ALA:O	1:A:57:GLY:N	2.52	0.43
1:A:148:LEU:HD23	1:A:264:LEU:HB2	2.00	0.43
1:A:535:TYR:O	1:A:538:LEU:HB3	2.19	0.43
1:A:903:GLU:HG3	1:A:904:CYS:H	1.84	0.43
1:B:535:TYR:O	1:B:538:LEU:HB3	2.19	0.43
1:B:584:PHE:HB3	1:B:585:ASP:H	1.61	0.43
1:B:1000:ILE:HD11	1:B:1014:ALA:HB3	2.00	0.43
1:C:382:PRO:HA	1:C:419:THR:CG2	2.36	0.43
1:C:629:GLN:HG2	1:C:651:SER:H	1.83	0.43
1:C:1075:SER:OG	1:C:1094:ASP:O	2.29	0.43
1:D:243:VAL:HG13	1:D:263:LEU:HD22	2.00	0.43
1:D:543:LEU:HA	1:D:546:LEU:CD1	2.48	0.43
1:E:124:ASN:HA	2:E:1501:DTP:C2	2.49	0.43
1:E:243:VAL:HG13	1:E:263:LEU:HD22	2.00	0.43
1:E:535:TYR:O	1:E:538:LEU:HB3	2.19	0.43
1:F:20:GLU:HG3	1:F:21:ASP:N	2.33	0.43
1:F:73:VAL:O	1:F:76:PHE:N	2.52	0.43
1:F:121:ALA:HB1	1:G:276:SER:CB	2.31	0.43
1:F:243:VAL:C	1:F:244:LEU:HD12	2.39	0.43
1:F:542:ILE:HA	1:F:545:PHE:CD2	2.54	0.43
1:G:73:VAL:O	1:G:76:PHE:N	2.52	0.43
1:G:182:ASN:HD22	1:G:245:LEU:HB2	1.83	0.43
1:G:879:SER:N	1:G:880:GLU:OE1	2.51	0.43
1:H:905:VAL:HG13	1:H:906:ASP:N	2.33	0.43
1:I:264:LEU:HD23	1:I:264:LEU:HA	1.74	0.43
1:I:1000:ILE:HD11	1:I:1014:ALA:HB3	2.00	0.43
1:I:1195:VAL:HG11	1:I:1241:PHE:CZ	2.54	0.43
1:J:243:VAL:HG13	1:J:263:LEU:HD22	2.00	0.43
1:J:535:TYR:O	1:J:538:LEU:HB3	2.19	0.43
1:K:243:VAL:HG13	1:K:263:LEU:HD22	2.00	0.43
1:K:251:APK:H8	1:K:251:APK:H2'	1.73	0.43
1:K:376:PRO:HA	1:K:377:PRO:HD3	1.89	0.43
1:K:451:LYS:CD	1:K:486:LEU:HD21	2.33	0.43
1:K:461:PRO:O	1:K:461:PRO:HG2	2.18	0.43
1:K:481:PRO:O	1:K:485:THR:HG23	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:543:LEU:HA	1:K:546:LEU:CD1	2.48	0.43
1:L:234:SER:OG	1:L:235:LYS:N	2.51	0.43
1:L:382:PRO:HA	1:L:419:THR:CG2	2.36	0.43
1:L:1201:THR:OG1	1:L:1202:MET:N	2.48	0.43
1:M:535:TYR:O	1:M:538:LEU:HB3	2.19	0.43
1:N:182:ASN:HD22	1:N:245:LEU:HB2	1.83	0.43
1:N:535:TYR:O	1:N:538:LEU:HB3	2.19	0.43
1:O:543:LEU:HA	1:O:546:LEU:CD1	2.49	0.43
1:P:73:VAL:O	1:P:76:PHE:N	2.52	0.43
1:P:147:VAL:HG12	1:P:281:THR:OG1	2.19	0.43
1:P:266:THR:HG22	1:P:268:PHE:N	2.33	0.43
1:P:453:PHE:CE2	1:P:460:PRO:HB3	2.49	0.43
1:P:903:GLU:HG3	1:P:904:CYS:H	1.84	0.43
1:A:409:SER:O	1:A:411:VAL:N	2.51	0.43
1:A:443:ILE:HG13	1:A:477:ASN:ND2	2.34	0.43
1:A:453:PHE:CE2	1:A:460:PRO:HB3	2.49	0.43
1:A:905:VAL:HG13	1:A:906:ASP:N	2.33	0.43
1:B:54:ALA:O	1:B:57:GLY:N	2.52	0.43
1:B:231:LEU:O	1:B:234:SER:OG	2.26	0.43
1:B:481:PRO:O	1:B:485:THR:HG23	2.19	0.43
1:C:73:VAL:O	1:C:76:PHE:N	2.52	0.43
1:C:124:ASN:HA	2:C:1501:DTP:C2	2.49	0.43
1:C:481:PRO:O	1:C:485:THR:HG23	2.19	0.43
1:C:903:GLU:HG3	1:C:904:CYS:H	1.84	0.43
1:C:1158:TYR:HB3	1:C:1162:ILE:HG23	2.01	0.43
1:D:376:PRO:HA	1:D:377:PRO:HD3	1.89	0.43
1:D:443:ILE:HG13	1:D:477:ASN:ND2	2.34	0.43
1:D:461:PRO:HG2	1:D:461:PRO:O	2.18	0.43
1:D:481:PRO:O	1:D:485:THR:HG23	2.19	0.43
1:D:499:GLN:CD	1:D:516:ASN:HB3	2.38	0.43
1:D:535:TYR:O	1:D:538:LEU:HB3	2.19	0.43
1:D:646:ARG:HG3	1:D:648:GLU:HG3	2.00	0.43
1:D:1192:SER:OG	1:D:1208:GLU:OE2	2.28	0.43
1:E:130:PRO:HA	1:E:290:MET:HE3	2.01	0.43
1:E:461:PRO:O	1:E:461:PRO:HG2	2.18	0.43
1:E:901:HIS:O	1:E:902:ILE:HB	2.18	0.43
1:F:154:GLY:O	1:F:155:SER:OG	2.35	0.43
1:F:417:GLU:O	1:F:417:GLU:HG2	2.18	0.43
1:F:988:ASP:OD1	1:F:989:SER:N	2.43	0.43
1:G:147:VAL:HG12	1:G:281:THR:OG1	2.19	0.43
1:G:264:LEU:HD23	1:G:264:LEU:HA	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:499:GLN:CD	1:G:516:ASN:HB3	2.39	0.43
1:G:957:ILE:HG13	1:G:1248:LEU:HD22	1.99	0.43
1:H:154:GLY:O	1:H:155:SER:OG	2.36	0.43
1:H:285:LEU:HA	1:H:285:LEU:HD23	1.74	0.43
1:H:301:LEU:CD2	1:H:313:PRO:CG	2.87	0.43
1:H:324:LEU:HD12	1:H:324:LEU:HA	1.61	0.43
1:H:903:GLU:HG3	1:H:904:CYS:H	1.84	0.43
1:I:243:VAL:C	1:I:244:LEU:HD12	2.39	0.43
1:I:542:ILE:HA	1:I:545:PHE:CD2	2.54	0.43
1:I:1177:TYR:HE2	1:J:916:LYS:HE2	1.83	0.43
1:J:124:ASN:HA	2:J:1501:DTP:C2	2.49	0.43
1:J:373:SER:CB	1:J:433:LEU:CD1	2.73	0.43
1:K:535:TYR:O	1:K:538:LEU:HB3	2.19	0.43
1:K:646:ARG:HG3	1:K:648:GLU:HG3	2.00	0.43
1:L:113:LEU:HA	1:L:113:LEU:HD12	1.83	0.43
1:L:901:HIS:O	1:L:902:ILE:HB	2.18	0.43
1:L:1075:SER:OG	1:L:1094:ASP:O	2.29	0.43
1:M:54:ALA:O	1:M:57:GLY:N	2.52	0.43
1:M:182:ASN:HD22	1:M:245:LEU:HB2	1.83	0.43
1:M:417:GLU:HG2	1:M:417:GLU:O	2.18	0.43
1:M:481:PRO:O	1:M:485:THR:HG23	2.19	0.43
1:M:1000:ILE:HD11	1:M:1014:ALA:HB3	2.00	0.43
1:N:392:ASP:OD1	1:N:393:VAL:N	2.47	0.43
1:N:443:ILE:HG13	1:N:477:ASN:ND2	2.34	0.43
1:N:905:VAL:HG13	1:N:906:ASP:N	2.33	0.43
1:O:629:GLN:HG2	1:O:651:SER:H	1.83	0.43
1:P:141:LEU:HD12	1:P:141:LEU:O	2.19	0.43
1:P:182:ASN:HD22	1:P:245:LEU:HB2	1.83	0.43
1:P:499:GLN:CD	1:P:516:ASN:HB3	2.38	0.43
1:P:957:ILE:HG13	1:P:1248:LEU:HD22	1.99	0.43
1:A:141:LEU:HD12	1:A:141:LEU:O	2.19	0.43
1:A:324:LEU:HD12	1:A:324:LEU:HA	1.61	0.43
1:A:553:LEU:HD23	1:A:553:LEU:HA	1.90	0.43
1:A:799:ASN:O	1:A:800:THR:CG2	2.67	0.43
1:A:1158:TYR:HB3	1:A:1162:ILE:HG23	2.01	0.43
1:B:342:LYS:HG3	1:B:343:HIS:N	2.34	0.43
1:B:417:GLU:HG2	1:B:417:GLU:O	2.18	0.43
1:B:1158:TYR:HB3	1:B:1162:ILE:HG23	2.01	0.43
1:B:1188:LYS:HG3	1:B:1189:ALA:H	1.82	0.43
1:C:244:LEU:HD21	1:C:256:PHE:CD2	2.51	0.43
1:C:799:ASN:O	1:C:800:THR:CG2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:141:LEU:HD12	1:D:141:LEU:O	2.19	0.43
1:D:292:LEU:HB2	1:D:319:THR:HB	1.99	0.43
1:D:541:ALA:O	1:D:543:LEU:N	2.52	0.43
1:E:541:ALA:O	1:E:543:LEU:N	2.52	0.43
1:E:1192:SER:OG	1:E:1208:GLU:OE2	2.28	0.43
1:F:54:ALA:O	1:F:57:GLY:N	2.52	0.43
1:F:147:VAL:HG12	1:F:281:THR:OG1	2.19	0.43
1:G:542:ILE:HA	1:G:545:PHE:CD2	2.54	0.43
1:H:629:GLN:HG2	1:H:651:SER:H	1.83	0.43
1:H:799:ASN:O	1:H:800:THR:CG2	2.67	0.43
1:I:147:VAL:HG12	1:I:281:THR:OG1	2.19	0.43
1:I:154:GLY:O	1:I:155:SER:OG	2.35	0.43
1:I:508:TRP:CD1	1:I:604:ASN:HB2	2.54	0.43
1:I:879:SER:N	1:I:880:GLU:OE1	2.51	0.43
1:J:130:PRO:HA	1:J:290:MET:HE3	2.01	0.43
1:J:142:ARG:HH22	1:K:14:ASP:CG	2.22	0.43
1:J:458:LEU:HA	1:J:587:ARG:HH21	1.80	0.43
1:J:541:ALA:O	1:J:543:LEU:N	2.52	0.43
1:K:54:ALA:O	1:K:57:GLY:N	2.52	0.43
1:K:243:VAL:C	1:K:244:LEU:HD12	2.39	0.43
1:K:257:ASN:OD1	1:L:115:ASN:HB3	2.19	0.43
1:K:443:ILE:HG13	1:K:477:ASN:ND2	2.34	0.43
1:K:541:ALA:O	1:K:543:LEU:N	2.52	0.43
1:L:20:GLU:HG3	1:L:21:ASP:N	2.33	0.43
1:L:481:PRO:O	1:L:485:THR:HG23	2.19	0.43
1:L:629:GLN:HG2	1:L:651:SER:H	1.83	0.43
1:L:903:GLU:HG3	1:L:904:CYS:H	1.84	0.43
1:M:1188:LYS:HG3	1:M:1189:ALA:H	1.82	0.43
1:N:141:LEU:O	1:N:141:LEU:HD12	2.19	0.43
1:N:285:LEU:HD23	1:N:285:LEU:HA	1.74	0.43
1:N:409:SER:O	1:N:411:VAL:N	2.51	0.43
1:N:633:THR:HG22	1:N:643:TYR:HA	1.97	0.43
1:N:862:ILE:HG23	1:N:863:THR:H	1.83	0.43
1:N:1158:TYR:HB3	1:N:1162:ILE:HG23	2.01	0.43
1:O:147:VAL:HG12	1:O:281:THR:OG1	2.19	0.43
1:O:641:ASP:OD1	1:O:642:THR:N	2.45	0.43
1:O:799:ASN:O	1:O:800:THR:CG2	2.67	0.43
1:P:463:LEU:CD2	1:P:467:PHE:HD2	2.31	0.43
1:P:543:LEU:HA	1:P:546:LEU:CD1	2.48	0.43
1:P:862:ILE:HG23	1:P:863:THR:H	1.83	0.43
1:A:392:ASP:OD1	1:A:393:VAL:N	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:862:ILE:HG23	1:A:863:THR:H	1.83	0.43
1:B:903:GLU:HG3	1:B:904:CYS:H	1.84	0.43
1:C:148:LEU:HD23	1:C:264:LEU:HB2	2.00	0.43
1:C:440:HIS:O	1:C:444:VAL:HG23	2.18	0.43
1:D:54:ALA:O	1:D:57:GLY:N	2.52	0.43
1:D:243:VAL:C	1:D:244:LEU:HD12	2.39	0.43
1:D:342:LYS:HG3	1:D:343:HIS:N	2.34	0.43
1:D:915:TYR:CE2	1:D:916:LYS:HE3	2.54	0.43
1:E:244:LEU:HD21	1:E:256:PHE:CD2	2.51	0.43
1:E:410:LEU:CD2	1:E:413:LYS:HA	2.49	0.43
1:E:542:ILE:HA	1:E:545:PHE:CD2	2.54	0.43
1:F:141:LEU:O	1:F:141:LEU:HD12	2.19	0.43
1:F:508:TRP:CD1	1:F:604:ASN:HB2	2.54	0.43
1:F:879:SER:N	1:F:880:GLU:OE1	2.51	0.43
1:G:124:ASN:HA	2:G:1501:DTP:C2	2.49	0.43
1:G:141:LEU:HD12	1:G:141:LEU:O	2.19	0.43
1:G:443:ILE:HG13	1:G:477:ASN:ND2	2.34	0.43
1:G:543:LEU:HA	1:G:546:LEU:CD1	2.49	0.43
1:G:862:ILE:HG23	1:G:863:THR:H	1.83	0.43
1:H:124:ASN:HA	2:H:1501:DTP:C2	2.49	0.43
1:H:147:VAL:HG12	1:H:281:THR:OG1	2.19	0.43
1:H:453:PHE:CE2	1:H:460:PRO:HB3	2.49	0.43
1:H:535:TYR:O	1:H:538:LEU:HB3	2.19	0.43
1:H:542:ILE:HA	1:H:545:PHE:CD2	2.54	0.43
1:H:641:ASP:OD1	1:H:642:THR:N	2.45	0.43
1:I:130:PRO:HA	1:I:290:MET:HE3	2.01	0.43
1:I:417:GLU:O	1:I:417:GLU:HG2	2.18	0.43
1:I:541:ALA:O	1:I:543:LEU:N	2.52	0.43
1:I:633:THR:HG22	1:I:643:TYR:HA	1.97	0.43
1:J:244:LEU:HD21	1:J:256:PHE:CD2	2.51	0.43
1:J:410:LEU:CD2	1:J:413:LYS:HA	2.49	0.43
1:J:508:TRP:CD1	1:J:604:ASN:HB2	2.54	0.43
1:J:518:LEU:N	1:J:518:LEU:CD1	2.81	0.43
1:J:542:ILE:HA	1:J:545:PHE:CD2	2.54	0.43
1:K:102:MET:O	1:K:105:MET:N	2.46	0.43
1:K:141:LEU:HD12	1:K:141:LEU:O	2.19	0.43
1:K:222:HIS:HD2	1:L:198:LYS:HG2	1.84	0.43
1:L:141:LEU:HD12	1:L:141:LEU:O	2.19	0.43
1:L:1158:TYR:HB3	1:L:1162:ILE:HG23	2.01	0.43
1:M:152:VAL:O	1:M:155:SER:OG	2.29	0.43
1:M:342:LYS:HG3	1:M:343:HIS:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:499:GLN:CD	1:M:516:ASN:HB3	2.38	0.43
1:M:584:PHE:HB3	1:M:585:ASP:H	1.61	0.43
1:M:1158:TYR:HB3	1:M:1162:ILE:HG23	2.01	0.43
1:N:514:ILE:HG22	1:N:515:LEU:O	2.19	0.43
1:N:553:LEU:HD23	1:N:553:LEU:HA	1.90	0.43
1:N:799:ASN:O	1:N:800:THR:CG2	2.67	0.43
1:N:901:HIS:O	1:N:902:ILE:HB	2.18	0.43
1:O:514:ILE:HG22	1:O:515:LEU:O	2.19	0.43
1:O:517:THR:HA	1:O:520:GLN:OE1	2.18	0.43
1:O:517:THR:CG2	1:O:518:LEU:N	2.81	0.43
1:O:535:TYR:O	1:O:538:LEU:HB3	2.19	0.43
1:O:553:LEU:HD23	1:O:553:LEU:HA	1.91	0.43
1:O:903:GLU:HG3	1:O:904:CYS:H	1.84	0.43
1:P:443:ILE:HG13	1:P:477:ASN:ND2	2.34	0.43
1:P:508:TRP:CD1	1:P:604:ASN:HB2	2.54	0.43
1:P:542:ILE:HA	1:P:545:PHE:CD2	2.54	0.43
1:A:251:APK:H2'	1:A:251:APK:H8	1.74	0.43
1:A:514:ILE:HG22	1:A:515:LEU:O	2.19	0.43
1:A:901:HIS:O	1:A:902:ILE:HB	2.18	0.43
1:A:915:TYR:CE2	1:A:916:LYS:HE3	2.53	0.43
1:B:124:ASN:HA	2:B:1501:DTP:C2	2.49	0.43
1:B:182:ASN:HD22	1:B:245:LEU:HB2	1.83	0.43
1:B:252:ALA:HB3	1:B:253:TRP:H	1.70	0.43
1:B:410:LEU:CD2	1:B:413:LYS:HA	2.49	0.43
1:B:499:GLN:CD	1:B:516:ASN:HB3	2.39	0.43
1:B:799:ASN:O	1:B:800:THR:CG2	2.67	0.43
1:C:141:LEU:HD12	1:C:141:LEU:O	2.19	0.43
1:C:1201:THR:OG1	1:C:1202:MET:N	2.48	0.43
1:D:102:MET:O	1:D:105:MET:N	2.46	0.43
1:D:124:ASN:OD1	1:D:124:ASN:C	2.58	0.43
1:D:148:LEU:HD23	1:D:264:LEU:HB2	2.00	0.43
1:D:285:LEU:HD23	1:D:285:LEU:HA	1.74	0.43
1:D:957:ILE:HG13	1:D:1248:LEU:HD22	1.99	0.43
1:E:11:GLN:O	1:E:14:ASP:N	2.46	0.43
1:E:124:ASN:OD1	1:E:124:ASN:C	2.58	0.43
1:E:518:LEU:N	1:E:518:LEU:CD1	2.81	0.43
1:F:541:ALA:O	1:F:543:LEU:N	2.52	0.43
1:F:633:THR:HG22	1:F:643:TYR:HA	1.97	0.43
1:G:54:ALA:O	1:G:57:GLY:N	2.52	0.43
1:G:243:VAL:HG13	1:G:263:LEU:HD22	2.00	0.43
1:G:463:LEU:CD2	1:G:467:PHE:HD2	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:989:SER:HB2	1:G:1027:ASN:HA	2.01	0.43
1:H:481:PRO:O	1:H:485:THR:HG23	2.19	0.43
1:H:514:ILE:HG22	1:H:515:LEU:O	2.19	0.43
1:H:517:THR:HA	1:H:520:GLN:OE1	2.18	0.43
1:H:541:ALA:O	1:H:543:LEU:N	2.52	0.43
1:I:20:GLU:HG3	1:I:21:ASP:N	2.33	0.43
1:I:141:LEU:O	1:I:141:LEU:HD12	2.19	0.43
1:I:243:VAL:HG13	1:I:263:LEU:HD22	2.00	0.43
1:J:11:GLN:O	1:J:14:ASP:N	2.46	0.43
1:J:901:HIS:O	1:J:902:ILE:HB	2.19	0.43
1:K:124:ASN:OD1	1:K:124:ASN:C	2.58	0.43
1:K:915:TYR:CE2	1:K:916:LYS:HE3	2.54	0.43
1:K:957:ILE:HG13	1:K:1248:LEU:HD22	1.99	0.43
1:L:244:LEU:HD21	1:L:256:PHE:CD2	2.50	0.43
1:L:324:LEU:HD12	1:L:324:LEU:HA	1.61	0.43
1:L:517:THR:HA	1:L:520:GLN:OE1	2.18	0.43
1:M:132:LEU:HD12	1:M:132:LEU:HA	1.79	0.43
1:M:410:LEU:CD2	1:M:413:LYS:HA	2.49	0.43
1:M:903:GLU:HG3	1:M:904:CYS:H	1.84	0.43
1:N:124:ASN:HA	2:N:1501:DTP:C2	2.49	0.43
1:N:453:PHE:CE2	1:N:460:PRO:HB3	2.49	0.43
1:O:54:ALA:O	1:O:57:GLY:N	2.52	0.43
1:O:124:ASN:HA	2:O:1501:DTP:C2	2.49	0.43
1:O:234:SER:OG	1:O:235:LYS:N	2.51	0.43
1:O:443:ILE:HG21	1:O:477:ASN:ND2	2.24	0.43
1:O:451:LYS:CD	1:O:486:LEU:HD21	2.33	0.43
1:O:541:ALA:O	1:O:543:LEU:N	2.52	0.43
1:O:542:ILE:HA	1:O:545:PHE:CD2	2.54	0.43
1:P:124:ASN:HA	2:P:1501:DTP:C2	2.49	0.43
1:P:243:VAL:HG13	1:P:263:LEU:HD22	2.00	0.43
1:P:264:LEU:HD23	1:P:264:LEU:HA	1.75	0.43
1:P:461:PRO:O	1:P:461:PRO:HG2	2.18	0.43
1:P:1139:ASP:O	1:P:1140:SER:OG	2.35	0.43
1:B:132:LEU:HD12	1:B:132:LEU:HA	1.79	0.43
1:B:463:LEU:CD2	1:B:467:PHE:HD2	2.31	0.43
1:C:234:SER:OG	1:C:235:LYS:N	2.51	0.43
1:E:443:ILE:HG13	1:E:477:ASN:ND2	2.34	0.43
1:E:508:TRP:CD1	1:E:604:ASN:HB2	2.54	0.43
1:F:243:VAL:HG13	1:F:263:LEU:HD22	2.00	0.43
1:F:543:LEU:HA	1:F:546:LEU:CD1	2.48	0.43
1:F:799:ASN:O	1:F:800:THR:CG2	2.67	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:901:HIS:O	1:F:902:ILE:HB	2.19	0.43
1:G:461:PRO:HG2	1:G:461:PRO:O	2.18	0.43
1:G:508:TRP:CD1	1:G:604:ASN:HB2	2.54	0.43
1:G:1000:ILE:HD11	1:G:1014:ALA:HB3	2.00	0.43
1:H:54:ALA:O	1:H:57:GLY:N	2.52	0.43
1:H:234:SER:OG	1:H:235:LYS:N	2.51	0.43
1:H:305:LEU:HD23	1:H:305:LEU:HA	1.84	0.43
1:H:410:LEU:CD2	1:H:413:LYS:HA	2.49	0.43
1:H:443:ILE:HG21	1:H:477:ASN:ND2	2.24	0.43
1:H:517:THR:CG2	1:H:518:LEU:N	2.81	0.43
1:H:1198:ASP:OD1	1:H:1199:ASP:N	2.50	0.43
1:I:122:LYS:HG3	1:P:276:SER:CB	2.49	0.43
1:I:198:LYS:HZ2	1:P:222:HIS:CG	2.37	0.43
1:I:481:PRO:O	1:I:485:THR:HG23	2.19	0.43
1:J:124:ASN:OD1	1:J:124:ASN:C	2.58	0.43
1:J:305:LEU:HD23	1:J:305:LEU:HA	1.84	0.43
1:J:443:ILE:HG13	1:J:477:ASN:ND2	2.34	0.43
1:K:342:LYS:HG3	1:K:343:HIS:N	2.34	0.43
1:L:243:VAL:C	1:L:244:LEU:HD12	2.39	0.43
1:L:376:PRO:HA	1:L:377:PRO:HD3	1.89	0.43
1:L:410:LEU:CD2	1:L:413:LYS:HA	2.49	0.43
1:L:535:TYR:O	1:L:538:LEU:HB3	2.19	0.43
1:L:799:ASN:O	1:L:800:THR:CG2	2.67	0.43
1:L:1036:VAL:HG12	1:L:1037:ASP:H	1.83	0.43
1:M:124:ASN:HA	2:M:1501:DTP:C2	2.49	0.43
1:M:463:LEU:CD2	1:M:467:PHE:HD2	2.31	0.43
1:M:517:THR:CG2	1:M:518:LEU:N	2.81	0.43
1:M:799:ASN:O	1:M:800:THR:CG2	2.67	0.43
1:N:222:HIS:CG	1:O:198:LYS:HZ1	2.37	0.43
1:N:915:TYR:CE2	1:N:916:LYS:HE3	2.53	0.43
1:O:73:VAL:O	1:O:76:PHE:N	2.52	0.43
1:O:410:LEU:CD2	1:O:413:LYS:HA	2.49	0.43
1:O:481:PRO:O	1:O:485:THR:HG23	2.19	0.43
1:P:646:ARG:HG3	1:P:648:GLU:HG3	2.00	0.43
1:P:989:SER:HB2	1:P:1027:ASN:HA	2.01	0.43
1:P:1000:ILE:HD11	1:P:1014:ALA:HB3	2.00	0.43
1:A:124:ASN:HA	2:A:1501:DTP:C2	2.49	0.42
1:A:376:PRO:HA	1:A:377:PRO:HD3	1.89	0.42
1:A:1195:VAL:HG11	1:A:1241:PHE:CZ	2.54	0.42
1:B:148:LEU:HD23	1:B:264:LEU:HB2	2.00	0.42
1:B:541:ALA:O	1:B:543:LEU:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:950:TRP:CZ3	1:B:952:HIS:HA	2.54	0.42
1:C:54:ALA:O	1:C:57:GLY:N	2.52	0.42
1:C:342:LYS:HG3	1:C:343:HIS:N	2.34	0.42
1:C:376:PRO:HA	1:C:377:PRO:HD3	1.89	0.42
1:C:535:TYR:O	1:C:538:LEU:HB3	2.19	0.42
1:C:1036:VAL:HG12	1:C:1037:ASP:H	1.83	0.42
1:E:514:ILE:HG22	1:E:515:LEU:O	2.19	0.42
1:E:517:THR:HA	1:E:520:GLN:OE1	2.19	0.42
1:E:1075:SER:OG	1:E:1094:ASP:O	2.29	0.42
1:F:124:ASN:OD1	1:F:124:ASN:C	2.58	0.42
1:F:481:PRO:O	1:F:485:THR:HG23	2.19	0.42
1:F:517:THR:HA	1:F:520:GLN:OE1	2.18	0.42
1:G:514:ILE:HG22	1:G:515:LEU:O	2.19	0.42
1:G:646:ARG:HG3	1:G:648:GLU:HG3	2.00	0.42
1:H:73:VAL:O	1:H:76:PHE:N	2.52	0.42
1:H:646:ARG:HG3	1:H:648:GLU:HG3	2.00	0.42
1:H:724:GLY:HA3	1:H:730:ILE:HD12	2.01	0.42
1:I:124:ASN:OD1	1:I:124:ASN:C	2.58	0.42
1:I:554:ILE:O	1:I:556:SER:N	2.45	0.42
1:I:799:ASN:O	1:I:800:THR:CG2	2.67	0.42
1:I:901:HIS:O	1:I:902:ILE:HB	2.18	0.42
1:J:514:ILE:HG22	1:J:515:LEU:O	2.19	0.42
1:J:903:GLU:HG3	1:J:904:CYS:H	1.84	0.42
1:K:148:LEU:HD23	1:K:264:LEU:HB2	2.00	0.42
1:K:285:LEU:HD23	1:K:285:LEU:HA	1.74	0.42
1:L:54:ALA:O	1:L:57:GLY:N	2.52	0.42
1:L:124:ASN:OD1	1:L:124:ASN:C	2.58	0.42
1:L:148:LEU:HD23	1:L:264:LEU:HB2	2.00	0.42
1:L:458:LEU:CA	1:L:587:ARG:HH21	2.31	0.42
1:L:514:ILE:HG22	1:L:515:LEU:O	2.19	0.42
1:M:148:LEU:HD23	1:M:264:LEU:HB2	2.00	0.42
1:M:187:ASN:CA	1:M:249:ASN:HD21	2.27	0.42
1:M:514:ILE:HG22	1:M:515:LEU:O	2.19	0.42
1:N:324:LEU:HD12	1:N:324:LEU:HA	1.61	0.42
1:O:305:LEU:HD23	1:O:305:LEU:HA	1.84	0.42
1:O:453:PHE:CE2	1:O:460:PRO:HB3	2.49	0.42
1:O:646:ARG:HG3	1:O:648:GLU:HG3	2.00	0.42
1:O:724:GLY:HA3	1:O:730:ILE:HD12	2.01	0.42
1:O:950:TRP:CZ3	1:O:952:HIS:HA	2.54	0.42
1:O:1139:ASP:O	1:O:1140:SER:OG	2.35	0.42
1:O:1198:ASP:OD1	1:O:1199:ASP:N	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:54:ALA:O	1:P:57:GLY:N	2.52	0.42
1:P:324:LEU:HD12	1:P:324:LEU:HA	1.61	0.42
1:P:514:ILE:HG22	1:P:515:LEU:O	2.19	0.42
1:P:535:TYR:O	1:P:538:LEU:HB3	2.19	0.42
1:P:950:TRP:CZ3	1:P:952:HIS:HA	2.54	0.42
1:A:122:LYS:CG	1:B:276:SER:OG	2.67	0.42
1:A:342:LYS:HG3	1:A:343:HIS:N	2.34	0.42
1:A:633:THR:HG22	1:A:643:TYR:HA	1.97	0.42
1:B:187:ASN:CA	1:B:249:ASN:HD21	2.27	0.42
1:B:443:ILE:HG21	1:B:477:ASN:ND2	2.24	0.42
1:B:514:ILE:HG22	1:B:515:LEU:O	2.19	0.42
1:B:517:THR:CG2	1:B:518:LEU:N	2.81	0.42
1:B:901:HIS:O	1:B:902:ILE:HB	2.18	0.42
1:B:1195:VAL:HG11	1:B:1241:PHE:CZ	2.54	0.42
1:C:124:ASN:OD1	1:C:124:ASN:C	2.58	0.42
1:C:458:LEU:CA	1:C:587:ARG:HH21	2.30	0.42
1:E:903:GLU:HG3	1:E:904:CYS:H	1.84	0.42
1:G:535:TYR:O	1:G:538:LEU:HB3	2.19	0.42
1:G:541:ALA:O	1:G:543:LEU:N	2.52	0.42
1:G:950:TRP:CZ3	1:G:952:HIS:HA	2.54	0.42
1:G:1195:VAL:HG11	1:G:1241:PHE:CZ	2.54	0.42
1:H:950:TRP:CZ3	1:H:952:HIS:HA	2.54	0.42
1:I:461:PRO:O	1:I:461:PRO:HG2	2.18	0.42
1:I:646:ARG:HG3	1:I:648:GLU:HG3	2.00	0.42
1:J:517:THR:HA	1:J:520:GLN:OE1	2.19	0.42
1:K:428:GLU:OE1	1:K:429:LEU:HA	2.20	0.42
1:L:132:LEU:HD12	1:L:132:LEU:HA	1.79	0.42
1:L:342:LYS:HG3	1:L:343:HIS:N	2.34	0.42
1:L:950:TRP:CZ3	1:L:952:HIS:HA	2.54	0.42
1:M:541:ALA:O	1:M:543:LEU:N	2.52	0.42
1:M:950:TRP:CZ3	1:M:952:HIS:HA	2.54	0.42
1:M:1195:VAL:HG11	1:M:1241:PHE:CZ	2.54	0.42
1:N:130:PRO:HA	1:N:290:MET:HE3	2.01	0.42
1:N:234:SER:OG	1:N:235:LYS:N	2.51	0.42
1:N:517:THR:HA	1:N:520:GLN:OE1	2.18	0.42
1:N:950:TRP:CZ3	1:N:952:HIS:HA	2.54	0.42
1:N:1195:VAL:HG11	1:N:1241:PHE:CZ	2.54	0.42
1:O:508:TRP:CD1	1:O:604:ASN:HB2	2.54	0.42
1:O:901:HIS:O	1:O:902:ILE:HB	2.18	0.42
1:P:541:ALA:O	1:P:543:LEU:N	2.52	0.42
1:P:1195:VAL:HG11	1:P:1241:PHE:CZ	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:130:PRO:HA	1:A:290:MET:HE3	2.01	0.42
1:A:516:ASN:O	1:A:517:THR:CB	2.67	0.42
1:B:73:VAL:O	1:B:76:PHE:N	2.52	0.42
1:B:152:VAL:O	1:B:155:SER:OG	2.29	0.42
1:B:157:LYS:HZ3	2:B:1501:DTP:PG	2.40	0.42
1:B:234:SER:OG	1:B:235:LYS:N	2.51	0.42
1:C:147:VAL:HG12	1:C:281:THR:OG1	2.19	0.42
1:C:243:VAL:C	1:C:244:LEU:HD12	2.39	0.42
1:C:251:APK:H8	1:C:251:APK:H2'	1.74	0.42
1:C:428:GLU:OE1	1:C:429:LEU:HA	2.20	0.42
1:C:499:GLN:CD	1:C:516:ASN:HB3	2.39	0.42
1:C:517:THR:HA	1:C:520:GLN:OE1	2.18	0.42
1:C:545:PHE:O	1:C:549:ILE:HG22	2.20	0.42
1:D:124:ASN:HA	2:D:1501:DTP:C2	2.49	0.42
1:D:251:APK:H8	1:D:251:APK:H2'	1.74	0.42
1:D:428:GLU:OE1	1:D:429:LEU:HA	2.20	0.42
1:D:799:ASN:O	1:D:800:THR:CG2	2.67	0.42
1:D:950:TRP:CZ3	1:D:952:HIS:HA	2.54	0.42
1:E:342:LYS:HG3	1:E:343:HIS:N	2.34	0.42
1:E:543:LEU:HA	1:E:546:LEU:CD1	2.48	0.42
1:F:453:PHE:CE2	1:F:460:PRO:HB3	2.49	0.42
1:F:463:LEU:CD2	1:F:467:PHE:HD2	2.31	0.42
1:G:79:GLU:OE2	1:G:83:ILE:HD11	2.20	0.42
1:G:120:PHE:CE1	1:G:159:TRP:CE3	3.05	0.42
1:G:243:VAL:C	1:G:244:LEU:HD12	2.39	0.42
1:G:324:LEU:HA	1:G:324:LEU:HD12	1.61	0.42
1:G:553:LEU:HD23	1:G:553:LEU:HA	1.91	0.42
1:H:342:LYS:HG3	1:H:343:HIS:N	2.34	0.42
1:H:516:ASN:O	1:H:517:THR:CB	2.67	0.42
1:H:901:HIS:O	1:H:902:ILE:HB	2.18	0.42
1:H:1000:ILE:HD11	1:H:1014:ALA:HB3	2.00	0.42
1:H:1139:ASP:O	1:H:1140:SER:OG	2.35	0.42
1:H:1158:TYR:HB3	1:H:1162:ILE:HG23	2.01	0.42
1:I:514:ILE:HG22	1:I:515:LEU:O	2.19	0.42
1:J:141:LEU:HD12	1:J:141:LEU:O	2.19	0.42
1:J:342:LYS:HG3	1:J:343:HIS:N	2.34	0.42
1:J:543:LEU:HA	1:J:546:LEU:CD1	2.49	0.42
1:J:1075:SER:OG	1:J:1094:ASP:O	2.29	0.42
1:K:124:ASN:HA	2:K:1501:DTP:C2	2.49	0.42
1:K:514:ILE:HG22	1:K:515:LEU:O	2.19	0.42
1:K:799:ASN:O	1:K:800:THR:CG2	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:950:TRP:CZ3	1:K:952:HIS:HA	2.54	0.42
1:L:499:GLN:CD	1:L:516:ASN:HB3	2.38	0.42
1:L:507:ALA:O	1:L:608:ASN:CB	2.61	0.42
1:L:545:PHE:O	1:L:549:ILE:HG22	2.19	0.42
1:L:646:ARG:HG3	1:L:648:GLU:HG3	2.00	0.42
1:M:73:VAL:O	1:M:76:PHE:N	2.52	0.42
1:M:234:SER:OG	1:M:235:LYS:N	2.51	0.42
1:M:901:HIS:O	1:M:902:ILE:HB	2.18	0.42
1:N:251:APK:O	1:N:253:TRP:HB3	2.20	0.42
1:N:342:LYS:HG3	1:N:343:HIS:N	2.34	0.42
1:O:285:LEU:HA	1:O:285:LEU:HD23	1.74	0.42
1:O:317:LEU:O	1:O:318:THR:CB	2.61	0.42
1:O:342:LYS:HG3	1:O:343:HIS:N	2.34	0.42
1:O:516:ASN:O	1:O:517:THR:CB	2.67	0.42
1:O:1000:ILE:HD11	1:O:1014:ALA:HB3	2.00	0.42
1:P:79:GLU:OE2	1:P:83:ILE:HD11	2.20	0.42
1:P:120:PHE:CE1	1:P:159:TRP:CE3	3.05	0.42
1:P:243:VAL:C	1:P:244:LEU:HD12	2.39	0.42
1:A:234:SER:OG	1:A:235:LYS:N	2.51	0.42
1:A:517:THR:HA	1:A:520:GLN:OE1	2.18	0.42
1:A:646:ARG:HG3	1:A:648:GLU:HG3	2.00	0.42
1:A:724:GLY:HA3	1:A:730:ILE:HD12	2.01	0.42
1:A:950:TRP:CZ3	1:A:952:HIS:HA	2.54	0.42
1:B:39:ILE:HG23	1:B:40:LEU:HG	2.02	0.42
1:B:346:CYS:SG	1:B:350:THR:OG1	2.76	0.42
1:B:440:HIS:O	1:B:444:VAL:HG23	2.18	0.42
1:B:724:GLY:HA3	1:B:730:ILE:HD12	2.01	0.42
1:C:507:ALA:O	1:C:608:ASN:CB	2.61	0.42
1:C:514:ILE:HG22	1:C:515:LEU:O	2.19	0.42
1:C:542:ILE:HA	1:C:545:PHE:CD2	2.54	0.42
1:C:646:ARG:HG3	1:C:648:GLU:HG3	2.00	0.42
1:D:410:LEU:CD2	1:D:413:LYS:HA	2.49	0.42
1:D:514:ILE:HG22	1:D:515:LEU:O	2.19	0.42
1:D:862:ILE:HG23	1:D:863:THR:H	1.84	0.42
1:F:115:ASN:HB3	1:G:257:ASN:HD21	1.84	0.42
1:F:514:ILE:HG22	1:F:515:LEU:O	2.19	0.42
1:F:862:ILE:HG23	1:F:863:THR:H	1.84	0.42
1:G:39:ILE:HG23	1:G:40:LEU:HG	2.02	0.42
1:G:336:ALA:C	1:G:337:THR:HG1	2.20	0.42
1:G:470:HIS:O	1:G:473:HIS:N	2.53	0.42
1:H:508:TRP:CD1	1:H:604:ASN:HB2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:545:PHE:O	1:H:549:ILE:HG22	2.19	0.42
1:I:517:THR:HA	1:I:520:GLN:OE1	2.18	0.42
1:I:543:LEU:HA	1:I:546:LEU:CD1	2.48	0.42
1:J:413:LYS:CD	1:J:422:ILE:O	2.61	0.42
1:K:545:PHE:O	1:K:549:ILE:HG22	2.19	0.42
1:L:541:ALA:O	1:L:543:LEU:N	2.52	0.42
1:M:39:ILE:HG23	1:M:40:LEU:HG	2.02	0.42
1:M:458:LEU:CG	1:M:587:ARG:NH2	2.74	0.42
1:M:470:HIS:O	1:M:473:HIS:N	2.53	0.42
1:M:553:LEU:HD23	1:M:553:LEU:HA	1.90	0.42
1:M:724:GLY:HA3	1:M:730:ILE:HD12	2.01	0.42
1:N:376:PRO:HA	1:N:377:PRO:HD3	1.89	0.42
1:N:516:ASN:O	1:N:517:THR:CB	2.67	0.42
1:N:724:GLY:HA3	1:N:730:ILE:HD12	2.01	0.42
1:O:91:PRO:O	1:O:94:THR:OG1	2.21	0.42
1:O:243:VAL:C	1:O:244:LEU:HD12	2.39	0.42
1:O:1158:TYR:HB3	1:O:1162:ILE:HG23	2.01	0.42
1:P:39:ILE:HG23	1:P:40:LEU:HG	2.02	0.42
1:P:902:ILE:HD13	1:P:930:HIS:CE1	2.43	0.42
1:A:39:ILE:HG23	1:A:40:LEU:HG	2.02	0.42
1:A:79:GLU:OE2	1:A:83:ILE:HD11	2.19	0.42
1:A:251:APK:O	1:A:253:TRP:HB3	2.20	0.42
1:A:481:PRO:O	1:A:485:THR:HG23	2.19	0.42
1:A:508:TRP:CD1	1:A:604:ASN:HB2	2.54	0.42
1:B:458:LEU:CG	1:B:587:ARG:NH2	2.74	0.42
1:B:470:HIS:O	1:B:473:HIS:N	2.53	0.42
1:B:488:ARG:HG2	1:B:491:PHE:CG	2.55	0.42
1:B:542:ILE:HA	1:B:545:PHE:CD2	2.54	0.42
1:B:553:LEU:HD23	1:B:553:LEU:HA	1.91	0.42
1:C:312:LEU:CD2	1:C:313:PRO:CD	2.86	0.42
1:C:346:CYS:HG	1:C:350:THR:HG1	1.64	0.42
1:C:553:LEU:HD23	1:C:553:LEU:HA	1.90	0.42
1:D:488:ARG:HG2	1:D:491:PHE:CG	2.55	0.42
1:D:508:TRP:CD1	1:D:604:ASN:HB2	2.54	0.42
1:D:545:PHE:O	1:D:549:ILE:HG22	2.20	0.42
1:E:141:LEU:HD12	1:E:141:LEU:O	2.19	0.42
1:E:147:VAL:HG12	1:E:281:THR:OG1	2.19	0.42
1:E:499:GLN:CD	1:E:516:ASN:HB3	2.38	0.42
1:F:410:LEU:CD2	1:F:413:LYS:HA	2.49	0.42
1:F:461:PRO:O	1:F:461:PRO:HG2	2.18	0.42
1:F:516:ASN:O	1:F:517:THR:CB	2.67	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:903:GLU:HG3	1:F:904:CYS:H	1.84	0.42
1:G:517:THR:HA	1:G:520:GLN:OE1	2.18	0.42
1:G:901:HIS:O	1:G:902:ILE:HB	2.18	0.42
1:H:39:ILE:HG23	1:H:40:LEU:HG	2.02	0.42
1:H:243:VAL:C	1:H:244:LEU:HD12	2.39	0.42
1:H:463:LEU:CD2	1:H:467:PHE:HD2	2.31	0.42
1:H:508:TRP:C	1:H:606:GLY:N	2.70	0.42
1:H:989:SER:HB2	1:H:1027:ASN:HA	2.01	0.42
1:I:463:LEU:CD2	1:I:467:PHE:HD2	2.31	0.42
1:I:535:TYR:O	1:I:538:LEU:HB3	2.19	0.42
1:J:113:LEU:HA	1:J:113:LEU:HD12	1.83	0.42
1:J:499:GLN:CD	1:J:516:ASN:HB3	2.39	0.42
1:K:79:GLU:OE2	1:K:83:ILE:HD11	2.19	0.42
1:K:488:ARG:HG2	1:K:491:PHE:CG	2.55	0.42
1:K:517:THR:CG2	1:K:518:LEU:N	2.81	0.42
1:K:542:ILE:HA	1:K:545:PHE:CD2	2.54	0.42
1:K:901:HIS:O	1:K:902:ILE:HB	2.18	0.42
1:L:147:VAL:HG12	1:L:281:THR:OG1	2.19	0.42
1:L:542:ILE:HA	1:L:545:PHE:CD2	2.54	0.42
1:L:553:LEU:HD23	1:L:553:LEU:HA	1.90	0.42
1:L:635:VAL:HB	1:L:641:ASP:CG	2.40	0.42
1:M:440:HIS:O	1:M:444:VAL:HG23	2.18	0.42
1:M:542:ILE:HA	1:M:545:PHE:CD2	2.54	0.42
1:M:646:ARG:HG3	1:M:648:GLU:HG3	2.00	0.42
1:N:147:VAL:HG12	1:N:281:THR:OG1	2.19	0.42
1:N:508:TRP:CD1	1:N:604:ASN:HB2	2.54	0.42
1:N:542:ILE:HA	1:N:545:PHE:CD2	2.54	0.42
1:O:508:TRP:C	1:O:606:GLY:N	2.70	0.42
1:O:545:PHE:O	1:O:549:ILE:HG22	2.20	0.42
1:O:989:SER:HB2	1:O:1027:ASN:HA	2.01	0.42
1:P:470:HIS:O	1:P:473:HIS:N	2.53	0.42
1:P:517:THR:HA	1:P:520:GLN:OE1	2.18	0.42
1:P:901:HIS:O	1:P:902:ILE:HB	2.18	0.42
1:A:124:ASN:C	1:A:124:ASN:OD1	2.58	0.42
1:A:542:ILE:HA	1:A:545:PHE:CD2	2.54	0.42
1:A:545:PHE:O	1:A:549:ILE:HG22	2.20	0.42
1:B:13:LYS:HE3	1:B:13:LYS:HB2	1.87	0.42
1:B:545:PHE:O	1:B:549:ILE:HG22	2.20	0.42
1:C:39:ILE:HG23	1:C:40:LEU:HG	2.02	0.42
1:C:552:ASN:HB3	1:C:1226:TYR:CE1	2.48	0.42
1:C:950:TRP:CZ3	1:C:952:HIS:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1127:ASP:OD1	1:C:1128:ILE:N	2.50	0.42
1:D:120:PHE:CE1	1:D:159:TRP:CE3	3.05	0.42
1:D:517:THR:CG2	1:D:518:LEU:N	2.81	0.42
1:D:542:ILE:HA	1:D:545:PHE:CD2	2.54	0.42
1:D:901:HIS:O	1:D:902:ILE:HB	2.18	0.42
1:E:39:ILE:HG23	1:E:40:LEU:HG	2.02	0.42
1:E:413:LYS:CD	1:E:422:ILE:O	2.61	0.42
1:E:481:PRO:O	1:E:485:THR:HG23	2.19	0.42
1:E:950:TRP:CZ3	1:E:952:HIS:HA	2.54	0.42
1:F:124:ASN:HA	2:F:1501:DTP:C2	2.49	0.42
1:F:535:TYR:O	1:F:538:LEU:HB3	2.19	0.42
1:F:646:ARG:HG3	1:F:648:GLU:HG3	2.00	0.42
1:G:124:ASN:OD1	1:G:124:ASN:C	2.58	0.42
1:G:915:TYR:CE2	1:G:916:LYS:HE3	2.54	0.42
1:H:79:GLU:OE2	1:H:83:ILE:HD11	2.19	0.42
1:H:317:LEU:O	1:H:318:THR:CB	2.61	0.42
1:H:488:ARG:HG2	1:H:491:PHE:CG	2.55	0.42
1:I:122:LYS:HG3	1:P:276:SER:HB2	2.00	0.42
1:I:453:PHE:CE2	1:I:460:PRO:HB3	2.49	0.42
1:I:508:TRP:C	1:I:606:GLY:N	2.70	0.42
1:I:516:ASN:O	1:I:517:THR:CB	2.67	0.42
1:J:147:VAL:HG12	1:J:281:THR:OG1	2.19	0.42
1:J:428:GLU:OE1	1:J:429:LEU:HA	2.20	0.42
1:J:481:PRO:O	1:J:485:THR:HG23	2.19	0.42
1:J:950:TRP:CZ3	1:J:952:HIS:HA	2.54	0.42
1:K:120:PHE:CE1	1:K:159:TRP:CE3	3.05	0.42
1:K:410:LEU:CD2	1:K:413:LYS:HA	2.49	0.42
1:K:862:ILE:HG23	1:K:863:THR:H	1.84	0.42
1:L:428:GLU:OE1	1:L:429:LEU:HA	2.20	0.42
1:M:13:LYS:HE3	1:M:13:LYS:HB2	1.87	0.42
1:M:488:ARG:HG2	1:M:491:PHE:CG	2.55	0.42
1:M:545:PHE:O	1:M:549:ILE:HG22	2.20	0.42
1:N:11:GLN:O	1:N:14:ASP:N	2.46	0.42
1:N:39:ILE:HG23	1:N:40:LEU:HG	2.02	0.42
1:N:79:GLU:OE2	1:N:83:ILE:HD11	2.19	0.42
1:N:124:ASN:C	1:N:124:ASN:OD1	2.58	0.42
1:N:264:LEU:HA	1:N:264:LEU:HD23	1.74	0.42
1:O:39:ILE:HG23	1:O:40:LEU:HG	2.02	0.42
1:O:463:LEU:CD2	1:O:467:PHE:HD2	2.31	0.42
1:P:410:LEU:CD2	1:P:413:LYS:HA	2.49	0.42
1:P:553:LEU:HD23	1:P:553:LEU:HA	1.91	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:11:GLN:O	1:A:14:ASP:N	2.46	0.42
1:A:147:VAL:HG12	1:A:281:THR:OG1	2.19	0.42
1:B:635:VAL:HB	1:B:641:ASP:CG	2.40	0.42
1:C:200:LEU:HD12	1:C:200:LEU:HA	1.74	0.42
1:C:1195:VAL:HG11	1:C:1241:PHE:CZ	2.54	0.42
1:D:79:GLU:OE2	1:D:83:ILE:HD11	2.19	0.42
1:D:453:PHE:CE1	1:D:460:PRO:HB3	2.51	0.42
1:D:517:THR:HA	1:D:520:GLN:OE1	2.18	0.42
1:D:523:PHE:HD1	1:D:527:TYR:CE2	2.28	0.42
1:D:1158:TYR:HB3	1:D:1162:ILE:HG23	2.01	0.42
1:E:507:ALA:O	1:E:608:ASN:CB	2.61	0.42
1:F:39:ILE:HG23	1:F:40:LEU:HG	2.02	0.42
1:F:769:ARG:NH1	1:F:771:PHE:HB2	2.35	0.42
1:F:950:TRP:CZ3	1:F:952:HIS:HA	2.54	0.42
1:G:410:LEU:CD2	1:G:413:LYS:HA	2.49	0.42
1:G:724:GLY:HA3	1:G:730:ILE:HD12	2.01	0.42
1:G:902:ILE:HD13	1:G:930:HIS:CE1	2.43	0.42
1:H:251:APK:O	1:H:253:TRP:HB3	2.20	0.42
1:H:496:PHE:HE2	1:H:555:CYS:HG	1.66	0.42
1:I:496:PHE:HE2	1:I:555:CYS:HG	1.66	0.42
1:I:862:ILE:HG23	1:I:863:THR:H	1.83	0.42
1:J:39:ILE:HG23	1:J:40:LEU:HG	2.02	0.42
1:K:453:PHE:CE1	1:K:460:PRO:HB3	2.51	0.42
1:K:508:TRP:CD1	1:K:604:ASN:HB2	2.54	0.42
1:K:517:THR:HA	1:K:520:GLN:OE1	2.19	0.42
1:K:523:PHE:HD1	1:K:527:TYR:CE2	2.28	0.42
1:K:635:VAL:HB	1:K:641:ASP:CG	2.40	0.42
1:K:1158:TYR:HB3	1:K:1162:ILE:HG23	2.01	0.42
1:L:13:LYS:HE3	1:L:13:LYS:HB2	1.87	0.42
1:L:39:ILE:HG23	1:L:40:LEU:HG	2.02	0.42
1:L:508:TRP:CD1	1:L:604:ASN:HB2	2.54	0.42
1:L:1195:VAL:HG11	1:L:1241:PHE:CZ	2.54	0.42
1:M:130:PRO:HA	1:M:290:MET:HE3	2.00	0.42
1:M:635:VAL:HB	1:M:641:ASP:CG	2.40	0.42
1:M:1075:SER:OG	1:M:1094:ASP:O	2.29	0.42
1:N:481:PRO:O	1:N:485:THR:HG23	2.19	0.42
1:N:545:PHE:O	1:N:549:ILE:HG22	2.20	0.42
1:O:79:GLU:OE2	1:O:83:ILE:HD11	2.20	0.42
1:O:488:ARG:HG2	1:O:491:PHE:CG	2.55	0.42
1:P:124:ASN:OD1	1:P:124:ASN:C	2.58	0.42
1:P:915:TYR:CE2	1:P:916:LYS:HE3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:243:VAL:C	1:A:244:LEU:HD12	2.39	0.42
1:A:276:SER:OG	1:H:122:LYS:HG3	2.20	0.42
1:B:79:GLU:OE2	1:B:83:ILE:HD11	2.19	0.42
1:B:124:ASN:OD1	1:B:124:ASN:C	2.58	0.42
1:B:989:SER:HB2	1:B:1027:ASN:HA	2.01	0.42
1:C:115:ASN:O	1:D:257:ASN:ND2	2.52	0.42
1:C:313:PRO:CG	1:C:338:TRP:CE2	2.94	0.42
1:C:541:ALA:O	1:C:543:LEU:N	2.52	0.42
1:D:39:ILE:HG23	1:D:40:LEU:HG	2.02	0.42
1:D:200:LEU:HA	1:D:200:LEU:HD12	1.74	0.42
1:D:516:ASN:O	1:D:517:THR:CB	2.67	0.42
1:D:635:VAL:HB	1:D:641:ASP:CG	2.40	0.42
1:E:119:VAL:HG23	1:E:120:PHE:N	2.28	0.42
1:E:428:GLU:OE1	1:E:429:LEU:HA	2.20	0.42
1:F:342:LYS:HG3	1:F:343:HIS:N	2.34	0.42
1:F:496:PHE:HE2	1:F:555:CYS:HG	1.66	0.42
1:H:141:LEU:HD12	1:H:141:LEU:O	2.19	0.42
1:H:283:ILE:HD13	1:H:283:ILE:HA	1.92	0.42
1:I:39:ILE:HG23	1:I:40:LEU:HG	2.02	0.42
1:I:251:APK:H8	1:I:251:APK:H2'	1.73	0.42
1:I:410:LEU:CD2	1:I:413:LYS:HA	2.49	0.42
1:I:517:THR:CG2	1:I:518:LEU:N	2.82	0.42
1:J:79:GLU:OE2	1:J:83:ILE:HD11	2.19	0.42
1:J:545:PHE:O	1:J:549:ILE:HG22	2.19	0.42
1:K:39:ILE:HG23	1:K:40:LEU:HG	2.02	0.42
1:K:200:LEU:HA	1:K:200:LEU:HD12	1.74	0.42
1:K:251:APK:O	1:K:253:TRP:HB3	2.20	0.42
1:L:251:APK:H8	1:L:251:APK:H2'	1.74	0.42
1:L:463:LEU:CD2	1:L:467:PHE:HD2	2.31	0.42
1:L:549:ILE:HD12	1:L:550:GLU:H	1.85	0.42
1:L:1177:TYR:HE2	1:M:916:LYS:CE	2.33	0.42
1:M:79:GLU:OE2	1:M:83:ILE:HD11	2.19	0.42
1:M:124:ASN:OD1	1:M:124:ASN:C	2.58	0.42
1:M:392:ASP:OD1	1:M:393:VAL:N	2.47	0.42
1:M:523:PHE:HD1	1:M:527:TYR:CE2	2.28	0.42
1:N:73:VAL:O	1:N:76:PHE:N	2.52	0.42
1:N:646:ARG:HG3	1:N:648:GLU:HG3	2.00	0.42
1:O:244:LEU:HD21	1:O:256:PHE:CD2	2.50	0.42
1:O:470:HIS:O	1:O:473:HIS:N	2.53	0.42
1:O:902:ILE:HD13	1:O:930:HIS:CE1	2.43	0.42
1:P:481:PRO:O	1:P:485:THR:HG23	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:799:ASN:O	1:P:800:THR:CG2	2.67	0.42
1:A:73:VAL:O	1:A:76:PHE:N	2.52	0.42
1:A:283:ILE:HD13	1:A:283:ILE:HA	1.92	0.42
1:B:130:PRO:HA	1:B:290:MET:HE3	2.01	0.42
1:B:462:TYR:OH	1:B:494:PHE:CE1	2.72	0.42
1:B:560:ASP:HA	1:B:592:ASN:ND2	2.29	0.42
1:B:646:ARG:HG3	1:B:648:GLU:HG3	2.00	0.42
1:B:833:LYS:HB3	1:B:834:TYR:H	1.63	0.42
1:B:1075:SER:OG	1:B:1094:ASP:O	2.29	0.42
1:C:113:LEU:HA	1:C:113:LEU:HD12	1.83	0.42
1:C:453:PHE:CE1	1:C:460:PRO:HB3	2.51	0.42
1:C:463:LEU:CD2	1:C:467:PHE:HD2	2.31	0.42
1:C:549:ILE:HD12	1:C:550:GLU:H	1.85	0.42
1:C:635:VAL:HB	1:C:641:ASP:CG	2.40	0.42
1:D:59:LEU:HD21	1:D:63:TRP:CZ2	2.55	0.42
1:D:251:APK:O	1:D:253:TRP:HB3	2.20	0.42
1:D:903:GLU:HG3	1:D:904:CYS:H	1.84	0.42
1:D:989:SER:HB2	1:D:1027:ASN:HA	2.01	0.42
1:E:251:APK:H8	1:E:251:APK:H2'	1.74	0.42
1:E:545:PHE:O	1:E:549:ILE:HG22	2.20	0.42
1:E:989:SER:HB2	1:E:1027:ASN:HA	2.01	0.42
1:E:1158:TYR:HB3	1:E:1162:ILE:HG23	2.01	0.42
1:F:285:LEU:HA	1:F:285:LEU:HD23	1.74	0.42
1:F:508:TRP:C	1:F:606:GLY:N	2.70	0.42
1:F:875:LEU:CG	1:F:911:PHE:CE2	2.86	0.42
1:G:342:LYS:HG3	1:G:343:HIS:N	2.34	0.42
1:G:481:PRO:O	1:G:485:THR:HG23	2.19	0.42
1:G:799:ASN:O	1:G:800:THR:CG2	2.67	0.42
1:H:91:PRO:O	1:H:94:THR:OG1	2.21	0.42
1:H:470:HIS:O	1:H:473:HIS:N	2.53	0.42
1:H:552:ASN:HB3	1:H:1226:TYR:CE1	2.48	0.42
1:I:124:ASN:HA	2:I:1501:DTP:C2	2.49	0.42
1:I:342:LYS:HG3	1:I:343:HIS:N	2.34	0.42
1:I:488:ARG:HG2	1:I:491:PHE:CG	2.55	0.42
1:I:545:PHE:CA	1:I:548:LYS:HB2	2.45	0.42
1:I:635:VAL:HB	1:I:641:ASP:CG	2.40	0.42
1:I:769:ARG:NH1	1:I:771:PHE:HB2	2.35	0.42
1:I:903:GLU:HG3	1:I:904:CYS:H	1.84	0.42
1:J:119:VAL:HG23	1:J:120:PHE:N	2.28	0.42
1:J:516:ASN:O	1:J:517:THR:CB	2.67	0.42
1:J:545:PHE:CA	1:J:548:LYS:HB2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:635:VAL:HB	1:J:641:ASP:CG	2.40	0.42
1:J:989:SER:HB2	1:J:1027:ASN:HA	2.01	0.42
1:K:59:LEU:HD21	1:K:63:TRP:CZ2	2.55	0.42
1:K:516:ASN:O	1:K:517:THR:CB	2.67	0.42
1:L:79:GLU:OE2	1:L:83:ILE:HD11	2.19	0.42
1:M:276:SER:OG	1:N:122:LYS:HG3	2.19	0.42
1:M:462:TYR:OH	1:M:494:PHE:CE1	2.72	0.42
1:M:560:ASP:HA	1:M:592:ASN:ND2	2.29	0.42
1:M:862:ILE:HG23	1:M:863:THR:H	1.83	0.42
1:M:989:SER:HB2	1:M:1027:ASN:HA	2.01	0.42
1:N:389:ILE:CD1	1:N:446:HIS:HE2	2.14	0.42
1:N:463:LEU:CD2	1:N:467:PHE:HD2	2.31	0.42
1:O:59:LEU:HD21	1:O:63:TRP:CZ2	2.55	0.42
1:O:141:LEU:HD12	1:O:141:LEU:O	2.19	0.42
1:O:251:APK:O	1:O:253:TRP:HB3	2.20	0.42
1:P:724:GLY:HA3	1:P:730:ILE:HD12	2.01	0.42
1:A:406:HIS:ND1	1:A:414:GLN:HG3	2.35	0.42
1:A:428:GLU:OE1	1:A:429:LEU:HA	2.20	0.42
1:B:523:PHE:HD1	1:B:527:TYR:CE2	2.28	0.42
1:C:13:LYS:HE3	1:C:13:LYS:HB2	1.87	0.42
1:C:406:HIS:ND1	1:C:414:GLN:HG3	2.35	0.42
1:C:557:LYS:HD3	1:C:1223:GLN:NE2	2.35	0.42
1:E:79:GLU:OE2	1:E:83:ILE:HD11	2.19	0.42
1:E:113:LEU:HA	1:E:113:LEU:HD12	1.84	0.42
1:E:516:ASN:O	1:E:517:THR:CB	2.67	0.42
1:E:557:LYS:HD3	1:E:1223:GLN:NE2	2.35	0.42
1:F:331:ILE:HD12	1:F:338:TRP:H	1.85	0.42
1:F:426:TYR:O	1:F:429:LEU:N	2.53	0.42
1:F:470:HIS:O	1:F:473:HIS:N	2.53	0.42
1:F:488:ARG:HG2	1:F:491:PHE:CG	2.55	0.42
1:F:517:THR:CG2	1:F:518:LEU:N	2.81	0.42
1:F:989:SER:HB2	1:F:1027:ASN:HA	2.01	0.42
1:H:557:LYS:HD3	1:H:1223:GLN:NE2	2.35	0.42
1:I:59:LEU:HD21	1:I:63:TRP:CZ2	2.55	0.42
1:I:989:SER:HB2	1:I:1027:ASN:HA	2.01	0.42
1:J:1158:TYR:HB3	1:J:1162:ILE:HG23	2.01	0.42
1:K:903:GLU:HG3	1:K:904:CYS:H	1.84	0.42
1:K:989:SER:HB2	1:K:1027:ASN:HA	2.01	0.42
1:K:1139:ASP:O	1:K:1140:SER:OG	2.35	0.42
1:L:426:TYR:O	1:L:429:LEU:N	2.53	0.42
1:L:453:PHE:CE1	1:L:460:PRO:HB3	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:557:LYS:HD3	1:L:1223:GLN:NE2	2.35	0.42
1:L:770:CYS:SG	1:L:781:VAL:HG13	2.60	0.42
1:N:59:LEU:HD21	1:N:63:TRP:CZ2	2.55	0.42
1:N:317:LEU:O	1:N:318:THR:CB	2.61	0.42
1:N:406:HIS:ND1	1:N:414:GLN:HG3	2.35	0.42
1:N:905:VAL:HG13	1:N:906:ASP:H	1.85	0.42
1:O:336:ALA:C	1:O:337:THR:HG1	2.19	0.42
1:O:557:LYS:HD3	1:O:1223:GLN:NE2	2.35	0.42
1:P:342:LYS:HG3	1:P:343:HIS:N	2.34	0.42
1:P:453:PHE:CE1	1:P:460:PRO:HB3	2.51	0.42
1:P:1192:SER:OG	1:P:1208:GLU:OE2	2.28	0.42
1:A:59:LEU:HD21	1:A:63:TRP:CZ2	2.55	0.41
1:A:463:LEU:CD2	1:A:467:PHE:HD2	2.31	0.41
1:A:635:VAL:HB	1:A:641:ASP:CG	2.40	0.41
1:A:905:VAL:HG13	1:A:906:ASP:H	1.85	0.41
1:A:989:SER:HB2	1:A:1027:ASN:HA	2.01	0.41
1:B:141:LEU:HD12	1:B:141:LEU:O	2.19	0.41
1:B:243:VAL:C	1:B:244:LEU:HD12	2.39	0.41
1:B:331:ILE:HD12	1:B:338:TRP:H	1.85	0.41
1:B:426:TYR:O	1:B:429:LEU:N	2.53	0.41
1:B:516:ASN:O	1:B:517:THR:CB	2.67	0.41
1:B:862:ILE:HG23	1:B:863:THR:H	1.83	0.41
1:C:79:GLU:OE2	1:C:83:ILE:HD11	2.20	0.41
1:C:312:LEU:HD23	1:C:312:LEU:C	2.40	0.41
1:C:331:ILE:HD12	1:C:338:TRP:H	1.85	0.41
1:D:406:HIS:ND1	1:D:414:GLN:HG3	2.35	0.41
1:D:770:CYS:SG	1:D:781:VAL:HG13	2.60	0.41
1:E:331:ILE:HD12	1:E:338:TRP:H	1.85	0.41
1:E:545:PHE:CA	1:E:548:LYS:HB2	2.45	0.41
1:E:549:ILE:HD12	1:E:550:GLU:H	1.85	0.41
1:E:635:VAL:HB	1:E:641:ASP:CG	2.40	0.41
1:E:799:ASN:O	1:E:800:THR:CG2	2.67	0.41
1:F:59:LEU:HD21	1:F:63:TRP:CZ2	2.55	0.41
1:F:130:PRO:HA	1:F:290:MET:HE3	2.02	0.41
1:F:468:TYR:HE1	1:F:497:LEU:HB2	1.85	0.41
1:F:635:VAL:HB	1:F:641:ASP:CG	2.40	0.41
1:G:462:TYR:OH	1:G:494:PHE:CE1	2.72	0.41
1:G:516:ASN:O	1:G:517:THR:CB	2.67	0.41
1:H:13:LYS:HB2	1:H:13:LYS:HE3	1.87	0.41
1:H:59:LEU:HD21	1:H:63:TRP:CZ2	2.55	0.41
1:I:244:LEU:HD21	1:I:256:PHE:CD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:346:CYS:SG	1:I:350:THR:OG1	2.76	0.41
1:I:389:ILE:CD1	1:I:446:HIS:HE2	2.14	0.41
1:I:426:TYR:O	1:I:429:LEU:N	2.53	0.41
1:I:549:ILE:HD12	1:I:550:GLU:H	1.85	0.41
1:I:950:TRP:CZ3	1:I:952:HIS:HA	2.54	0.41
1:J:331:ILE:HD12	1:J:338:TRP:H	1.85	0.41
1:J:507:ALA:O	1:J:608:ASN:CB	2.61	0.41
1:J:549:ILE:HD12	1:J:550:GLU:H	1.85	0.41
1:J:557:LYS:HD3	1:J:1223:GLN:NE2	2.35	0.41
1:J:799:ASN:O	1:J:800:THR:CG2	2.67	0.41
1:K:257:ASN:ND2	1:L:115:ASN:O	2.51	0.41
1:K:406:HIS:ND1	1:K:414:GLN:HG3	2.35	0.41
1:L:313:PRO:CG	1:L:338:TRP:CE2	2.94	0.41
1:L:768:ILE:HG23	1:L:769:ARG:N	2.36	0.41
1:L:989:SER:HB2	1:L:1027:ASN:HA	2.01	0.41
1:M:141:LEU:HD12	1:M:141:LEU:O	2.19	0.41
1:M:243:VAL:C	1:M:244:LEU:HD12	2.39	0.41
1:M:382:PRO:HA	1:M:419:THR:CG2	2.36	0.41
1:M:406:HIS:ND1	1:M:414:GLN:HG3	2.35	0.41
1:M:516:ASN:O	1:M:517:THR:CB	2.67	0.41
1:N:243:VAL:C	1:N:244:LEU:HD12	2.39	0.41
1:N:428:GLU:OE1	1:N:429:LEU:HA	2.20	0.41
1:N:989:SER:HB2	1:N:1027:ASN:HA	2.01	0.41
1:N:1026:PHE:HD1	1:N:1062:LYS:HG2	1.86	0.41
1:N:1051:GLN:HG3	1:N:1053:PHE:CD2	2.55	0.41
1:P:462:TYR:OH	1:P:494:PHE:CE1	2.72	0.41
1:A:264:LEU:HA	1:A:264:LEU:HD23	1.74	0.41
1:A:317:LEU:O	1:A:318:THR:CB	2.61	0.41
1:A:389:ILE:CD1	1:A:446:HIS:HE2	2.14	0.41
1:A:410:LEU:CD2	1:A:413:LYS:HA	2.49	0.41
1:A:541:ALA:O	1:A:543:LEU:N	2.52	0.41
1:A:1026:PHE:HD1	1:A:1062:LYS:HG2	1.86	0.41
1:A:1051:GLN:HG3	1:A:1053:PHE:CD2	2.55	0.41
1:A:1198:ASP:OD1	1:A:1199:ASP:N	2.50	0.41
1:B:147:VAL:HG12	1:B:281:THR:OG1	2.19	0.41
1:B:428:GLU:OE1	1:B:429:LEU:HA	2.20	0.41
1:B:768:ILE:HG23	1:B:769:ARG:N	2.35	0.41
1:C:132:LEU:HD12	1:C:132:LEU:HA	1.79	0.41
1:C:426:TYR:O	1:C:429:LEU:N	2.53	0.41
1:C:508:TRP:CD1	1:C:604:ASN:HB2	2.54	0.41
1:C:724:GLY:HA3	1:C:730:ILE:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:768:ILE:HG23	1:C:769:ARG:N	2.36	0.41
1:C:770:CYS:SG	1:C:781:VAL:HG13	2.60	0.41
1:C:989:SER:HB2	1:C:1027:ASN:HA	2.01	0.41
1:C:1051:GLN:HG3	1:C:1053:PHE:CD2	2.55	0.41
1:D:14:ASP:CG	1:E:142:ARG:HH22	2.22	0.41
1:D:470:HIS:O	1:D:473:HIS:N	2.53	0.41
1:D:560:ASP:O	1:D:564:ILE:HG12	2.21	0.41
1:E:59:LEU:HD21	1:E:63:TRP:CZ2	2.55	0.41
1:E:312:LEU:HD23	1:E:312:LEU:C	2.40	0.41
1:E:324:LEU:HA	1:E:324:LEU:HD12	1.61	0.41
1:E:406:HIS:ND1	1:E:414:GLN:HG3	2.35	0.41
1:F:244:LEU:HD21	1:F:256:PHE:CD2	2.50	0.41
1:F:335:LEU:HD21	1:G:399:MET:HG3	2.01	0.41
1:F:389:ILE:CD1	1:F:446:HIS:HE2	2.14	0.41
1:F:1139:ASP:O	1:F:1140:SER:OG	2.35	0.41
1:G:1158:TYR:HB3	1:G:1162:ILE:HG23	2.01	0.41
1:H:244:LEU:HD21	1:H:256:PHE:CD2	2.51	0.41
1:H:406:HIS:ND1	1:H:414:GLN:HG3	2.35	0.41
1:H:770:CYS:SG	1:H:781:VAL:HG13	2.60	0.41
1:I:276:SER:OG	1:J:122:LYS:HG3	2.20	0.41
1:I:468:TYR:HE1	1:I:497:LEU:HB2	1.85	0.41
1:I:470:HIS:O	1:I:473:HIS:N	2.53	0.41
1:J:406:HIS:ND1	1:J:414:GLN:HG3	2.35	0.41
1:K:152:VAL:O	1:K:155:SER:OG	2.29	0.41
1:L:406:HIS:ND1	1:L:414:GLN:HG3	2.35	0.41
1:L:519:GLN:HG2	1:L:523:PHE:HE2	1.84	0.41
1:L:552:ASN:HB3	1:L:1226:TYR:CE1	2.48	0.41
1:M:64:THR:O	1:M:67:SER:OG	2.27	0.41
1:M:147:VAL:HG12	1:M:281:THR:OG1	2.19	0.41
1:M:331:ILE:HD12	1:M:338:TRP:H	1.85	0.41
1:M:426:TYR:O	1:M:429:LEU:N	2.53	0.41
1:M:428:GLU:OE1	1:M:429:LEU:HA	2.20	0.41
1:M:557:LYS:HD3	1:M:1223:GLN:NE2	2.35	0.41
1:M:833:LYS:HB3	1:M:834:TYR:H	1.63	0.41
1:N:635:VAL:HB	1:N:641:ASP:CG	2.40	0.41
1:N:1198:ASP:OD1	1:N:1199:ASP:N	2.50	0.41
1:O:406:HIS:ND1	1:O:414:GLN:HG3	2.35	0.41
1:P:516:ASN:O	1:P:517:THR:CB	2.67	0.41
1:P:545:PHE:O	1:P:549:ILE:HG22	2.19	0.41
1:P:1158:TYR:HB3	1:P:1162:ILE:HG23	2.01	0.41
1:A:331:ILE:HD12	1:A:338:TRP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:549:ILE:HD12	1:A:550:GLU:H	1.85	0.41
1:A:584:PHE:HB3	1:A:585:ASP:H	1.61	0.41
1:A:769:ARG:NH1	1:A:771:PHE:HB2	2.35	0.41
1:B:312:LEU:CD2	1:B:313:PRO:CD	2.86	0.41
1:B:406:HIS:ND1	1:B:414:GLN:HG3	2.35	0.41
1:B:557:LYS:HD3	1:B:1223:GLN:NE2	2.35	0.41
1:C:285:LEU:HD23	1:C:285:LEU:HA	1.74	0.41
1:D:13:LYS:HE3	1:D:13:LYS:HB2	1.87	0.41
1:D:113:LEU:HD12	1:D:113:LEU:HA	1.83	0.41
1:D:426:TYR:O	1:D:429:LEU:N	2.53	0.41
1:D:768:ILE:HG23	1:D:769:ARG:N	2.36	0.41
1:D:1075:SER:OG	1:D:1094:ASP:O	2.29	0.41
1:E:64:THR:O	1:E:67:SER:OG	2.27	0.41
1:F:271:VAL:O	1:F:274:PHE:N	2.54	0.41
1:F:549:ILE:HD12	1:F:550:GLU:H	1.85	0.41
1:F:557:LYS:HD3	1:F:1223:GLN:NE2	2.35	0.41
1:G:545:PHE:O	1:G:549:ILE:HG22	2.19	0.41
1:G:770:CYS:SG	1:G:781:VAL:HG13	2.60	0.41
1:H:113:LEU:HD12	1:H:113:LEU:HA	1.84	0.41
1:H:271:VAL:O	1:H:274:PHE:N	2.54	0.41
1:H:331:ILE:HD12	1:H:338:TRP:H	1.85	0.41
1:H:336:ALA:C	1:H:337:THR:HG1	2.19	0.41
1:I:79:GLU:OE2	1:I:83:ILE:HD11	2.19	0.41
1:I:119:VAL:HG23	1:I:120:PHE:N	2.29	0.41
1:I:770:CYS:SG	1:I:781:VAL:HG13	2.60	0.41
1:I:1139:ASP:O	1:I:1140:SER:OG	2.35	0.41
1:J:59:LEU:HD21	1:J:63:TRP:CZ2	2.55	0.41
1:J:312:LEU:HD23	1:J:312:LEU:C	2.41	0.41
1:J:346:CYS:SG	1:J:350:THR:OG1	2.76	0.41
1:K:147:VAL:HG12	1:K:281:THR:OG1	2.19	0.41
1:K:325:SER:O	1:K:329:GLU:N	2.42	0.41
1:K:413:LYS:CD	1:K:422:ILE:O	2.60	0.41
1:K:426:TYR:O	1:K:429:LEU:N	2.53	0.41
1:K:470:HIS:O	1:K:473:HIS:N	2.53	0.41
1:K:560:ASP:O	1:K:564:ILE:HG12	2.21	0.41
1:K:768:ILE:HG23	1:K:769:ARG:N	2.36	0.41
1:K:770:CYS:SG	1:K:781:VAL:HG13	2.60	0.41
1:K:1051:GLN:HG3	1:K:1053:PHE:CD2	2.55	0.41
1:K:1075:SER:OG	1:K:1094:ASP:O	2.29	0.41
1:L:219:LEU:HD11	1:M:201:TYR:HE2	1.86	0.41
1:L:312:LEU:HD23	1:L:312:LEU:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:336:ALA:C	1:L:338:TRP:N	2.74	0.41
1:L:724:GLY:HA3	1:L:730:ILE:HD12	2.01	0.41
1:L:1051:GLN:HG3	1:L:1053:PHE:CD2	2.56	0.41
1:M:251:APK:O	1:M:253:TRP:HB3	2.20	0.41
1:M:768:ILE:HG23	1:M:769:ARG:N	2.36	0.41
1:M:770:CYS:SG	1:M:781:VAL:HG13	2.60	0.41
1:M:1026:PHE:HD1	1:M:1062:LYS:HG2	1.86	0.41
1:N:410:LEU:CD2	1:N:413:LYS:HA	2.49	0.41
1:N:426:TYR:O	1:N:429:LEU:N	2.53	0.41
1:O:283:ILE:HD13	1:O:283:ILE:HA	1.92	0.41
1:O:331:ILE:HD12	1:O:338:TRP:H	1.85	0.41
1:O:552:ASN:HB3	1:O:1226:TYR:CE1	2.48	0.41
1:O:770:CYS:SG	1:O:781:VAL:HG13	2.60	0.41
1:P:346:CYS:SG	1:P:350:THR:OG1	2.76	0.41
1:P:770:CYS:SG	1:P:781:VAL:HG13	2.60	0.41
1:A:488:ARG:HG2	1:A:491:PHE:CG	2.55	0.41
1:B:102:MET:O	1:B:105:MET:N	2.46	0.41
1:B:201:TYR:CZ	1:C:223:SER:OG	2.64	0.41
1:B:251:APK:O	1:B:253:TRP:HB3	2.20	0.41
1:B:770:CYS:SG	1:B:781:VAL:HG13	2.60	0.41
1:B:915:TYR:CE2	1:B:916:LYS:HE3	2.53	0.41
1:B:1026:PHE:HD1	1:B:1062:LYS:HG2	1.86	0.41
1:C:413:LYS:CD	1:C:422:ILE:O	2.61	0.41
1:D:147:VAL:HG12	1:D:281:THR:OG1	2.19	0.41
1:D:325:SER:O	1:D:329:GLU:N	2.42	0.41
1:D:413:LYS:CD	1:D:422:ILE:O	2.61	0.41
1:D:1026:PHE:HD1	1:D:1062:LYS:HG2	1.86	0.41
1:D:1051:GLN:HG3	1:D:1053:PHE:CD2	2.55	0.41
1:F:545:PHE:CA	1:F:548:LYS:HB2	2.45	0.41
1:F:833:LYS:HB3	1:F:834:TYR:H	1.63	0.41
1:G:346:CYS:SG	1:G:350:THR:OG1	2.76	0.41
1:G:1051:GLN:HG3	1:G:1053:PHE:CD2	2.55	0.41
1:G:1192:SER:OG	1:G:1208:GLU:OE2	2.28	0.41
1:H:336:ALA:C	1:H:338:TRP:N	2.74	0.41
1:H:635:VAL:HB	1:H:641:ASP:CG	2.40	0.41
1:H:902:ILE:HD13	1:H:930:HIS:CE1	2.43	0.41
1:H:1026:PHE:HD1	1:H:1062:LYS:HG2	1.86	0.41
1:I:331:ILE:HD12	1:I:338:TRP:H	1.85	0.41
1:I:428:GLU:OE1	1:I:429:LEU:HA	2.20	0.41
1:I:545:PHE:O	1:I:549:ILE:HG22	2.20	0.41
1:I:1177:TYR:HE2	1:J:916:LYS:CE	2.32	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:251:APK:O	1:J:253:TRP:HB3	2.20	0.41
1:K:13:LYS:HE3	1:K:13:LYS:HB2	1.87	0.41
1:K:724:GLY:HA3	1:K:730:ILE:HD12	2.01	0.41
1:K:902:ILE:HD13	1:K:930:HIS:CE1	2.43	0.41
1:K:1026:PHE:HD1	1:K:1062:LYS:HG2	1.86	0.41
1:L:251:APK:O	1:L:253:TRP:HB3	2.20	0.41
1:L:331:ILE:HD12	1:L:338:TRP:H	1.86	0.41
1:L:518:LEU:N	1:L:518:LEU:CD1	2.81	0.41
1:L:1026:PHE:HD1	1:L:1062:LYS:HG2	1.85	0.41
1:M:102:MET:O	1:M:105:MET:N	2.46	0.41
1:M:113:LEU:HA	1:M:113:LEU:HD12	1.83	0.41
1:M:902:ILE:HD13	1:M:930:HIS:CE1	2.43	0.41
1:N:119:VAL:HG23	1:N:120:PHE:N	2.28	0.41
1:N:283:ILE:HD13	1:N:283:ILE:HA	1.92	0.41
1:N:331:ILE:HD12	1:N:338:TRP:H	1.85	0.41
1:N:541:ALA:O	1:N:543:LEU:N	2.52	0.41
1:N:549:ILE:HD12	1:N:550:GLU:H	1.85	0.41
1:O:336:ALA:C	1:O:338:TRP:N	2.74	0.41
1:O:549:ILE:HD12	1:O:550:GLU:H	1.85	0.41
1:O:915:TYR:CE2	1:O:916:LYS:HE3	2.53	0.41
1:O:1026:PHE:HD1	1:O:1062:LYS:HG2	1.86	0.41
1:P:59:LEU:HD21	1:P:63:TRP:CZ2	2.55	0.41
1:P:142:ARG:H	1:P:142:ARG:HG2	1.73	0.41
1:P:251:APK:O	1:P:253:TRP:HB3	2.20	0.41
1:P:635:VAL:HB	1:P:641:ASP:CG	2.40	0.41
1:P:905:VAL:HG13	1:P:906:ASP:H	1.85	0.41
1:A:426:TYR:O	1:A:429:LEU:N	2.53	0.41
1:A:768:ILE:HG23	1:A:769:ARG:N	2.36	0.41
1:B:285:LEU:HD23	1:B:285:LEU:HA	1.74	0.41
1:B:317:LEU:C	1:B:318:THR:HG1	1.96	0.41
1:B:382:PRO:HA	1:B:419:THR:CG2	2.36	0.41
1:B:451:LYS:CD	1:B:486:LEU:HD21	2.33	0.41
1:B:508:TRP:CD1	1:B:604:ASN:HB2	2.54	0.41
1:C:251:APK:O	1:C:253:TRP:HB3	2.20	0.41
1:C:336:ALA:C	1:C:338:TRP:N	2.74	0.41
1:C:519:GLN:HG2	1:C:523:PHE:HE2	1.84	0.41
1:D:468:TYR:HE1	1:D:497:LEU:HB2	1.85	0.41
1:D:724:GLY:HA3	1:D:730:ILE:HD12	2.01	0.41
1:D:829:LEU:HD21	1:D:874:LEU:HD22	2.03	0.41
1:E:768:ILE:HG23	1:E:769:ARG:N	2.35	0.41
1:E:1009:ILE:HG13	1:E:1011:PRO:HD3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:428:GLU:OE1	1:F:429:LEU:HA	2.20	0.41
1:F:545:PHE:O	1:F:549:ILE:HG22	2.19	0.41
1:F:603:ILE:HD11	1:F:635:VAL:HG11	2.03	0.41
1:F:770:CYS:SG	1:F:781:VAL:HG13	2.61	0.41
1:F:1158:TYR:HB3	1:F:1162:ILE:HG23	2.01	0.41
1:G:59:LEU:HD21	1:G:63:TRP:CZ2	2.55	0.41
1:G:251:APK:O	1:G:253:TRP:HB3	2.20	0.41
1:G:507:ALA:O	1:G:608:ASN:CB	2.61	0.41
1:G:635:VAL:HB	1:G:641:ASP:CG	2.40	0.41
1:H:915:TYR:CE2	1:H:916:LYS:HE3	2.53	0.41
1:I:557:LYS:HD3	1:I:1223:GLN:NE2	2.35	0.41
1:J:157:LYS:H	1:J:157:LYS:HG2	1.68	0.41
1:J:251:APK:H8	1:J:251:APK:H2'	1.74	0.41
1:J:1009:ILE:HG13	1:J:1011:PRO:HD3	2.03	0.41
1:K:468:TYR:HE1	1:K:497:LEU:HB2	1.85	0.41
1:K:519:GLN:HG2	1:K:523:PHE:HE2	1.84	0.41
1:K:829:LEU:HD21	1:K:874:LEU:HD22	2.03	0.41
1:M:312:LEU:CD2	1:M:313:PRO:CD	2.86	0.41
1:M:508:TRP:CD1	1:M:604:ASN:HB2	2.54	0.41
1:M:519:GLN:HG2	1:M:523:PHE:HE2	1.84	0.41
1:M:915:TYR:CE2	1:M:916:LYS:HE3	2.53	0.41
1:N:768:ILE:HG23	1:N:769:ARG:N	2.36	0.41
1:N:769:ARG:NH1	1:N:771:PHE:HB2	2.35	0.41
1:O:271:VAL:O	1:O:274:PHE:N	2.54	0.41
1:O:413:LYS:CD	1:O:422:ILE:O	2.61	0.41
1:O:862:ILE:HG23	1:O:863:THR:H	1.83	0.41
1:P:336:ALA:C	1:P:337:THR:HG1	2.21	0.41
1:P:406:HIS:ND1	1:P:414:GLN:HG3	2.35	0.41
1:P:1051:GLN:HG3	1:P:1053:PHE:CD2	2.55	0.41
1:A:15:ILE:HD12	1:A:15:ILE:HA	1.92	0.41
1:A:557:LYS:HD3	1:A:1223:GLN:NE2	2.35	0.41
1:A:829:LEU:HD21	1:A:874:LEU:HD22	2.03	0.41
1:A:833:LYS:HB3	1:A:834:TYR:H	1.63	0.41
1:B:519:GLN:HG2	1:B:523:PHE:HE2	1.84	0.41
1:B:902:ILE:HD13	1:B:930:HIS:CE1	2.43	0.41
1:C:122:LYS:O	1:C:303:LYS:NZ	2.38	0.41
1:C:250:ALA:C	1:C:251:APK:O	2.59	0.41
1:C:560:ASP:O	1:C:564:ILE:HG12	2.21	0.41
1:C:829:LEU:HD21	1:C:874:LEU:HD22	2.03	0.41
1:C:905:VAL:HG13	1:C:906:ASP:H	1.85	0.41
1:D:152:VAL:O	1:D:155:SER:OG	2.29	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:324:LEU:HD12	1:D:324:LEU:HA	1.61	0.41
1:D:336:ALA:C	1:D:338:TRP:N	2.74	0.41
1:D:1195:VAL:HG11	1:D:1241:PHE:CZ	2.54	0.41
1:E:346:CYS:SG	1:E:350:THR:OG1	2.76	0.41
1:F:79:GLU:OE2	1:F:83:ILE:HD11	2.20	0.41
1:F:346:CYS:SG	1:F:350:THR:OG1	2.76	0.41
1:F:724:GLY:HA3	1:F:730:ILE:HD12	2.01	0.41
1:G:198:LYS:NZ	1:H:222:HIS:CG	2.88	0.41
1:G:406:HIS:ND1	1:G:414:GLN:HG3	2.35	0.41
1:G:905:VAL:HG13	1:G:906:ASP:H	1.86	0.41
1:H:124:ASN:C	1:H:124:ASN:OD1	2.57	0.41
1:H:468:TYR:HE1	1:H:497:LEU:HB2	1.85	0.41
1:H:549:ILE:HD12	1:H:550:GLU:H	1.85	0.41
1:H:833:LYS:HB3	1:H:834:TYR:H	1.63	0.41
1:H:862:ILE:HG23	1:H:863:THR:H	1.83	0.41
1:I:271:VAL:O	1:I:274:PHE:N	2.54	0.41
1:I:406:HIS:ND1	1:I:414:GLN:HG3	2.35	0.41
1:I:724:GLY:HA3	1:I:730:ILE:HD12	2.01	0.41
1:I:1009:ILE:HG13	1:I:1011:PRO:HD3	2.03	0.41
1:I:1026:PHE:HD1	1:I:1062:LYS:HG2	1.86	0.41
1:J:426:TYR:O	1:J:429:LEU:N	2.53	0.41
1:J:468:TYR:HE1	1:J:497:LEU:HB2	1.85	0.41
1:J:768:ILE:HG23	1:J:769:ARG:N	2.35	0.41
1:K:147:VAL:HG23	1:K:263:LEU:HG	2.03	0.41
1:K:336:ALA:C	1:K:338:TRP:N	2.74	0.41
1:L:250:ALA:C	1:L:251:APK:O	2.59	0.41
1:L:516:ASN:O	1:L:517:THR:CB	2.67	0.41
1:L:560:ASP:O	1:L:564:ILE:HG12	2.21	0.41
1:M:147:VAL:HG23	1:M:263:LEU:HG	2.03	0.41
1:N:829:LEU:HD21	1:N:874:LEU:HD22	2.03	0.41
1:O:468:TYR:HE1	1:O:497:LEU:HB2	1.85	0.41
1:O:635:VAL:HB	1:O:641:ASP:CG	2.40	0.41
1:A:470:HIS:O	1:A:473:HIS:N	2.53	0.41
1:B:147:VAL:HG23	1:B:263:LEU:HG	2.03	0.41
1:B:271:VAL:O	1:B:274:PHE:N	2.54	0.41
1:C:516:ASN:O	1:C:517:THR:CB	2.67	0.41
1:D:147:VAL:HG23	1:D:263:LEU:HG	2.03	0.41
1:D:1009:ILE:HG13	1:D:1011:PRO:HD3	2.03	0.41
1:E:153:LEU:CD2	1:E:267:ARG:HD3	2.51	0.41
1:E:251:APK:O	1:E:253:TRP:HB3	2.20	0.41
1:E:829:LEU:HD21	1:E:874:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1198:ASP:OD1	1:E:1199:ASP:N	2.50	0.41
1:F:251:APK:O	1:F:253:TRP:HB3	2.20	0.41
1:F:768:ILE:HG23	1:F:769:ARG:N	2.35	0.41
1:F:1026:PHE:HD1	1:F:1062:LYS:HG2	1.86	0.41
1:G:488:ARG:HG2	1:G:491:PHE:CG	2.55	0.41
1:G:557:LYS:HD3	1:G:1223:GLN:NE2	2.35	0.41
1:I:14:ASP:CG	1:P:142:ARG:HH22	2.24	0.41
1:I:603:ILE:HD11	1:I:635:VAL:HG11	2.03	0.41
1:I:1158:TYR:HB3	1:I:1162:ILE:HG23	2.01	0.41
1:J:153:LEU:CD2	1:J:267:ARG:HD3	2.51	0.41
1:J:453:PHE:CE1	1:J:460:PRO:HB3	2.51	0.41
1:J:829:LEU:HD21	1:J:874:LEU:HD22	2.03	0.41
1:K:403:ASN:CG	1:L:333:ASP:OD2	2.58	0.41
1:L:488:ARG:HG2	1:L:491:PHE:CG	2.55	0.41
1:L:829:LEU:HD21	1:L:874:LEU:HD22	2.03	0.41
1:L:905:VAL:HG13	1:L:906:ASP:H	1.85	0.41
1:M:271:VAL:O	1:M:274:PHE:N	2.54	0.41
1:N:470:HIS:O	1:N:473:HIS:N	2.53	0.41
1:N:488:ARG:HG2	1:N:491:PHE:CG	2.55	0.41
1:N:770:CYS:SG	1:N:781:VAL:HG13	2.60	0.41
1:O:426:TYR:O	1:O:429:LEU:N	2.53	0.41
1:O:428:GLU:OE1	1:O:429:LEU:HA	2.20	0.41
1:P:507:ALA:O	1:P:608:ASN:CB	2.61	0.41
1:P:557:LYS:HD3	1:P:1223:GLN:NE2	2.35	0.41
1:A:119:VAL:HG23	1:A:120:PHE:N	2.29	0.41
1:A:147:VAL:HG23	1:A:263:LEU:HG	2.03	0.41
1:A:770:CYS:SG	1:A:781:VAL:HG13	2.60	0.41
1:B:113:LEU:HA	1:B:113:LEU:HD12	1.83	0.41
1:B:250:ALA:C	1:B:251:APK:O	2.59	0.41
1:C:488:ARG:HG2	1:C:491:PHE:CG	2.55	0.41
1:C:587:ARG:CG	1:C:588:VAL:H	2.33	0.41
1:C:1026:PHE:HD1	1:C:1062:LYS:HG2	1.86	0.41
1:D:519:GLN:HG2	1:D:523:PHE:HE2	1.85	0.41
1:E:426:TYR:O	1:E:429:LEU:N	2.53	0.41
1:E:468:TYR:HE1	1:E:497:LEU:HB2	1.85	0.41
1:F:119:VAL:HG23	1:F:120:PHE:N	2.28	0.41
1:G:271:VAL:O	1:G:274:PHE:N	2.54	0.41
1:G:426:TYR:O	1:G:429:LEU:N	2.53	0.41
1:H:413:LYS:CD	1:H:422:ILE:O	2.61	0.41
1:H:426:TYR:O	1:H:429:LEU:N	2.53	0.41
1:H:905:VAL:HG13	1:H:906:ASP:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:153:LEU:CD2	1:I:267:ARG:HD3	2.51	0.41
1:I:285:LEU:HA	1:I:285:LEU:HD23	1.74	0.41
1:I:616:LEU:HG	1:I:618:ASN:H	1.86	0.41
1:J:324:LEU:HA	1:J:324:LEU:HD12	1.61	0.41
1:J:488:ARG:HG2	1:J:491:PHE:CG	2.55	0.41
1:J:1177:TYR:CE2	1:K:916:LYS:HE2	2.49	0.41
1:K:153:LEU:CD2	1:K:267:ARG:HD3	2.51	0.41
1:K:428:GLU:OE1	1:K:429:LEU:N	2.54	0.41
1:K:1009:ILE:HG13	1:K:1011:PRO:HD3	2.03	0.41
1:K:1195:VAL:HG11	1:K:1241:PHE:CZ	2.54	0.41
1:L:1198:ASP:OD1	1:L:1199:ASP:N	2.50	0.41
1:M:451:LYS:CD	1:M:486:LEU:HD21	2.33	0.41
1:N:147:VAL:HG23	1:N:263:LEU:HG	2.03	0.41
1:N:557:LYS:HD3	1:N:1223:GLN:NE2	2.35	0.41
1:O:113:LEU:HD12	1:O:113:LEU:HA	1.83	0.41
1:O:124:ASN:C	1:O:124:ASN:OD1	2.58	0.41
1:O:768:ILE:HG23	1:O:769:ARG:N	2.36	0.41
1:O:829:LEU:HD21	1:O:874:LEU:HD22	2.03	0.41
1:P:336:ALA:C	1:P:338:TRP:N	2.74	0.41
1:P:426:TYR:O	1:P:429:LEU:N	2.53	0.41
1:P:428:GLU:OE1	1:P:429:LEU:HA	2.20	0.41
1:P:488:ARG:HG2	1:P:491:PHE:CG	2.55	0.41
1:A:462:TYR:CZ	1:A:494:PHE:CZ	3.03	0.41
1:A:519:GLN:HG2	1:A:523:PHE:HE2	1.84	0.41
1:B:59:LEU:HD21	1:B:63:TRP:CZ2	2.55	0.41
1:B:207:TRP:CZ2	1:B:224:ILE:HD11	2.56	0.41
1:B:312:LEU:HD23	1:B:312:LEU:C	2.40	0.41
1:B:361:GLU:O	1:B:365:TYR:N	2.53	0.41
1:B:560:ASP:O	1:B:564:ILE:HG12	2.21	0.41
1:B:829:LEU:HD21	1:B:874:LEU:HD22	2.03	0.41
1:B:905:VAL:HG13	1:B:906:ASP:H	1.85	0.41
1:B:1051:GLN:HG3	1:B:1053:PHE:CD2	2.55	0.41
1:B:1198:ASP:OD1	1:B:1199:ASP:N	2.50	0.41
1:C:59:LEU:HD21	1:C:63:TRP:CZ2	2.55	0.41
1:C:147:VAL:HG23	1:C:263:LEU:HG	2.03	0.41
1:C:207:TRP:CZ2	1:C:224:ILE:HD11	2.56	0.41
1:C:462:TYR:OH	1:C:494:PHE:CE1	2.72	0.41
1:D:153:LEU:CD2	1:D:267:ARG:HD3	2.51	0.41
1:D:428:GLU:OE1	1:D:429:LEU:N	2.54	0.41
1:D:603:ILE:HD11	1:D:635:VAL:HG11	2.03	0.41
1:D:616:LEU:HG	1:D:618:ASN:H	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:902:ILE:HD13	1:D:930:HIS:CE1	2.43	0.41
1:D:1198:ASP:OD1	1:D:1199:ASP:N	2.50	0.41
1:E:147:VAL:HG23	1:E:263:LEU:HG	2.03	0.41
1:E:157:LYS:H	1:E:157:LYS:HG2	1.68	0.41
1:E:447:TYR:OH	1:E:486:LEU:CD2	2.67	0.41
1:E:453:PHE:CE1	1:E:460:PRO:HB3	2.51	0.41
1:E:488:ARG:HG2	1:E:491:PHE:CG	2.55	0.41
1:E:724:GLY:HA3	1:E:730:ILE:HD12	2.01	0.41
1:E:915:TYR:CE2	1:E:916:LYS:HE3	2.54	0.41
1:E:1051:GLN:HG3	1:E:1053:PHE:CD2	2.56	0.41
1:F:153:LEU:CD2	1:F:267:ARG:HD3	2.51	0.41
1:F:324:LEU:HD12	1:F:324:LEU:HA	1.61	0.41
1:F:406:HIS:ND1	1:F:414:GLN:HG3	2.35	0.41
1:F:428:GLU:OE1	1:F:429:LEU:N	2.54	0.41
1:F:616:LEU:HG	1:F:618:ASN:H	1.86	0.41
1:F:1009:ILE:HG13	1:F:1011:PRO:HD3	2.03	0.41
1:G:187:ASN:CA	1:G:249:ASN:HD21	2.27	0.41
1:G:301:LEU:CD2	1:G:313:PRO:CG	2.87	0.41
1:G:336:ALA:C	1:G:338:TRP:N	2.74	0.41
1:G:428:GLU:OE1	1:G:429:LEU:N	2.54	0.41
1:G:428:GLU:OE1	1:G:429:LEU:HA	2.20	0.41
1:G:468:TYR:HE1	1:G:497:LEU:HB2	1.85	0.41
1:G:768:ILE:HG23	1:G:769:ARG:N	2.36	0.41
1:H:428:GLU:OE1	1:H:429:LEU:HA	2.20	0.41
1:H:428:GLU:OE1	1:H:429:LEU:N	2.54	0.41
1:H:511:SER:HA	1:H:514:ILE:H	1.86	0.41
1:H:768:ILE:HG23	1:H:769:ARG:N	2.36	0.41
1:H:829:LEU:HD21	1:H:874:LEU:HD22	2.03	0.41
1:H:1051:GLN:HG3	1:H:1053:PHE:CD2	2.55	0.41
1:H:1195:VAL:HG11	1:H:1241:PHE:CZ	2.54	0.41
1:I:251:APK:O	1:I:253:TRP:HB3	2.20	0.41
1:I:768:ILE:HG23	1:I:769:ARG:N	2.36	0.41
1:I:1051:GLN:HG3	1:I:1053:PHE:CD2	2.55	0.41
1:J:147:VAL:HG23	1:J:263:LEU:HG	2.03	0.41
1:J:222:HIS:CG	1:K:198:LYS:HZ1	2.39	0.41
1:J:428:GLU:C	1:J:430:LYS:N	2.75	0.41
1:J:447:TYR:OH	1:J:486:LEU:CD2	2.67	0.41
1:J:770:CYS:SG	1:J:781:VAL:HG13	2.60	0.41
1:J:915:TYR:CE2	1:J:916:LYS:HE3	2.53	0.41
1:J:1051:GLN:HG3	1:J:1053:PHE:CD2	2.55	0.41
1:K:89:MET:O	1:K:92:ILE:HG22	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:113:LEU:HD12	1:K:113:LEU:HA	1.83	0.41
1:K:324:LEU:HD12	1:K:324:LEU:HA	1.61	0.41
1:K:346:CYS:SG	1:K:350:THR:OG1	2.76	0.41
1:K:549:ILE:HD12	1:K:550:GLU:H	1.85	0.41
1:K:616:LEU:HG	1:K:618:ASN:H	1.86	0.41
1:K:1198:ASP:OD1	1:K:1199:ASP:N	2.50	0.41
1:L:147:VAL:HG23	1:L:263:LEU:HG	2.03	0.41
1:L:207:TRP:CZ2	1:L:224:ILE:HD11	2.56	0.41
1:L:312:LEU:CD2	1:L:313:PRO:CD	2.86	0.41
1:L:428:GLU:OE1	1:L:429:LEU:N	2.54	0.41
1:L:428:GLU:C	1:L:430:LYS:N	2.74	0.41
1:L:587:ARG:CG	1:L:588:VAL:H	2.33	0.41
1:M:207:TRP:CZ2	1:M:224:ILE:HD11	2.56	0.41
1:M:250:ALA:C	1:M:251:APK:O	2.59	0.41
1:M:285:LEU:HD23	1:M:285:LEU:HA	1.74	0.41
1:M:361:GLU:O	1:M:365:TYR:N	2.53	0.41
1:M:560:ASP:O	1:M:564:ILE:HG12	2.21	0.41
1:M:829:LEU:HD21	1:M:874:LEU:HD22	2.03	0.41
1:M:905:VAL:HG13	1:M:906:ASP:H	1.85	0.41
1:M:1051:GLN:HG3	1:M:1053:PHE:CD2	2.56	0.41
1:M:1127:ASP:OD1	1:M:1128:ILE:N	2.50	0.41
1:M:1198:ASP:OD1	1:M:1199:ASP:N	2.50	0.41
1:N:519:GLN:HG2	1:N:523:PHE:HE2	1.84	0.41
1:N:560:ASP:O	1:N:564:ILE:HG12	2.21	0.41
1:N:584:PHE:HB3	1:N:585:ASP:H	1.61	0.41
1:N:603:ILE:HD11	1:N:635:VAL:HG11	2.03	0.41
1:N:833:LYS:HB3	1:N:834:TYR:H	1.63	0.41
1:O:428:GLU:OE1	1:O:429:LEU:N	2.54	0.41
1:O:905:VAL:HG13	1:O:906:ASP:H	1.85	0.41
1:P:122:LYS:O	1:P:303:LYS:NZ	2.38	0.41
1:P:271:VAL:O	1:P:274:PHE:N	2.54	0.41
1:P:301:LEU:CD2	1:P:313:PRO:CG	2.87	0.41
1:P:428:GLU:OE1	1:P:429:LEU:N	2.54	0.41
1:P:468:TYR:HE1	1:P:497:LEU:HB2	1.85	0.41
1:P:768:ILE:HG23	1:P:769:ARG:N	2.36	0.41
1:P:1026:PHE:HD1	1:P:1062:LYS:HG2	1.86	0.41
1:A:271:VAL:O	1:A:274:PHE:N	2.54	0.41
1:A:560:ASP:O	1:A:564:ILE:HG12	2.21	0.41
1:B:428:GLU:C	1:B:430:LYS:N	2.74	0.41
1:B:781:VAL:HG11	1:B:791:TRP:HZ3	1.87	0.41
1:C:361:GLU:O	1:C:365:TYR:N	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:428:GLU:OE1	1:C:429:LEU:N	2.54	0.41
1:C:428:GLU:C	1:C:430:LYS:N	2.75	0.41
1:D:331:ILE:HD12	1:D:338:TRP:H	1.85	0.41
1:D:346:CYS:SG	1:D:350:THR:OG1	2.76	0.41
1:D:549:ILE:HD12	1:D:550:GLU:H	1.85	0.41
1:D:717:PHE:HB2	1:D:771:PHE:HD1	1.86	0.41
1:D:769:ARG:NH1	1:D:771:PHE:HB2	2.35	0.41
1:E:271:VAL:O	1:E:274:PHE:N	2.54	0.41
1:E:336:ALA:C	1:E:338:TRP:N	2.74	0.41
1:E:428:GLU:C	1:E:430:LYS:N	2.74	0.41
1:G:428:GLU:C	1:G:430:LYS:N	2.74	0.41
1:G:545:PHE:CA	1:G:548:LYS:HB2	2.45	0.41
1:G:1026:PHE:HD1	1:G:1062:LYS:HG2	1.86	0.41
1:I:428:GLU:OE1	1:I:429:LEU:N	2.54	0.41
1:I:447:TYR:OH	1:I:486:LEU:CD2	2.67	0.41
1:I:967:PRO:HD2	1:I:976:ASP:HB2	2.03	0.41
1:J:271:VAL:O	1:J:274:PHE:N	2.54	0.41
1:J:336:ALA:C	1:J:338:TRP:N	2.74	0.41
1:J:389:ILE:CD1	1:J:446:HIS:HE2	2.14	0.41
1:J:724:GLY:HA3	1:J:730:ILE:HD12	2.01	0.41
1:J:1198:ASP:OD1	1:J:1199:ASP:N	2.50	0.41
1:K:545:PHE:CA	1:K:548:LYS:HB2	2.45	0.41
1:K:603:ILE:HD11	1:K:635:VAL:HG11	2.03	0.41
1:M:59:LEU:HD21	1:M:63:TRP:CZ2	2.55	0.41
1:M:312:LEU:HD23	1:M:312:LEU:C	2.41	0.41
1:M:336:ALA:C	1:M:338:TRP:N	2.74	0.41
1:M:781:VAL:HG11	1:M:791:TRP:HZ3	1.86	0.41
1:N:361:GLU:O	1:N:365:TYR:N	2.53	0.41
1:N:1139:ASP:O	1:N:1140:SER:OG	2.35	0.41
1:P:545:PHE:CA	1:P:548:LYS:HB2	2.45	0.41
1:A:361:GLU:O	1:A:365:TYR:N	2.53	0.40
1:A:1139:ASP:O	1:A:1140:SER:OG	2.35	0.40
1:B:336:ALA:C	1:B:338:TRP:N	2.74	0.40
1:B:450:PRO:O	1:B:453:PHE:N	2.54	0.40
1:B:1127:ASP:OD1	1:B:1128:ILE:N	2.50	0.40
1:C:28:ASP:HB2	1:C:31:ASP:CG	2.42	0.40
1:C:122:LYS:HG3	1:D:276:SER:OG	2.21	0.40
1:D:89:MET:O	1:D:92:ILE:HG22	2.22	0.40
1:D:450:PRO:O	1:D:453:PHE:N	2.55	0.40
1:E:770:CYS:SG	1:E:781:VAL:HG13	2.60	0.40
1:E:967:PRO:HD2	1:E:976:ASP:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:28:ASP:HB2	1:F:31:ASP:CG	2.42	0.40
1:F:42:LYS:HG3	1:F:46:ASP:OD2	2.22	0.40
1:F:336:ALA:C	1:F:338:TRP:N	2.74	0.40
1:F:560:ASP:O	1:F:564:ILE:HG12	2.21	0.40
1:F:829:LEU:HD21	1:F:874:LEU:HD22	2.03	0.40
1:G:560:ASP:O	1:G:564:ILE:HG12	2.21	0.40
1:G:916:LYS:CE	1:H:1177:TYR:HE2	2.34	0.40
1:I:146:ASN:HB2	1:I:280:THR:CG2	2.51	0.40
1:I:560:ASP:O	1:I:564:ILE:HG12	2.21	0.40
1:I:833:LYS:HB3	1:I:834:TYR:H	1.63	0.40
1:J:102:MET:O	1:J:105:MET:N	2.46	0.40
1:J:967:PRO:HD2	1:J:976:ASP:HB2	2.04	0.40
1:K:119:VAL:HG23	1:K:120:PHE:N	2.28	0.40
1:K:331:ILE:HD12	1:K:338:TRP:H	1.86	0.40
1:K:769:ARG:NH1	1:K:771:PHE:HB2	2.35	0.40
1:L:28:ASP:HB2	1:L:31:ASP:CG	2.42	0.40
1:L:42:LYS:HG3	1:L:46:ASP:OD2	2.22	0.40
1:L:59:LEU:HD21	1:L:63:TRP:CZ2	2.55	0.40
1:L:301:LEU:CD2	1:L:313:PRO:CG	2.87	0.40
1:L:361:GLU:O	1:L:365:TYR:N	2.53	0.40
1:L:450:PRO:O	1:L:453:PHE:N	2.54	0.40
1:L:462:TYR:OH	1:L:494:PHE:CE1	2.73	0.40
1:L:545:PHE:CE1	1:L:565:ALA:HA	2.55	0.40
1:M:428:GLU:C	1:M:430:LYS:N	2.74	0.40
1:N:271:VAL:O	1:N:274:PHE:N	2.54	0.40
1:N:462:TYR:CZ	1:N:494:PHE:CZ	3.03	0.40
1:N:717:PHE:HB2	1:N:771:PHE:HD1	1.86	0.40
1:O:352:ILE:O	1:O:356:SER:OG	2.29	0.40
1:O:511:SER:HA	1:O:514:ILE:H	1.87	0.40
1:O:1051:GLN:HG3	1:O:1053:PHE:CD2	2.56	0.40
1:P:829:LEU:HD21	1:P:874:LEU:HD22	2.03	0.40
1:A:207:TRP:CZ2	1:A:224:ILE:HD11	2.56	0.40
1:B:28:ASP:HB2	1:B:31:ASP:CG	2.42	0.40
1:B:468:TYR:HE1	1:B:497:LEU:HB2	1.85	0.40
1:C:42:LYS:HG3	1:C:46:ASP:OD2	2.22	0.40
1:C:450:PRO:O	1:C:453:PHE:N	2.54	0.40
1:C:1198:ASP:OD1	1:C:1199:ASP:N	2.50	0.40
1:D:28:ASP:HB2	1:D:31:ASP:CG	2.42	0.40
1:D:122:LYS:HG3	1:E:276:SER:HB2	2.04	0.40
1:D:207:TRP:CZ2	1:D:224:ILE:HD11	2.56	0.40
1:D:271:VAL:O	1:D:274:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:545:PHE:CA	1:D:548:LYS:HB2	2.45	0.40
1:E:102:MET:O	1:E:105:MET:N	2.46	0.40
1:E:389:ILE:CD1	1:E:446:HIS:HE2	2.14	0.40
1:F:89:MET:O	1:F:92:ILE:HG22	2.21	0.40
1:F:207:TRP:CZ2	1:F:224:ILE:HD11	2.56	0.40
1:F:428:GLU:C	1:F:430:LYS:N	2.74	0.40
1:F:447:TYR:OH	1:F:486:LEU:CD2	2.67	0.40
1:F:1198:ASP:OD1	1:F:1199:ASP:N	2.50	0.40
1:G:42:LYS:HG3	1:G:46:ASP:OD2	2.22	0.40
1:G:829:LEU:HD21	1:G:874:LEU:HD22	2.03	0.40
1:H:337:THR:HG1	1:H:340:ASN:N	2.19	0.40
1:H:560:ASP:O	1:H:564:ILE:HG12	2.21	0.40
1:H:781:VAL:HG11	1:H:791:TRP:HZ3	1.86	0.40
1:I:207:TRP:CZ2	1:I:224:ILE:HD11	2.56	0.40
1:I:829:LEU:HD21	1:I:874:LEU:HD22	2.03	0.40
1:J:428:GLU:OE1	1:J:429:LEU:N	2.54	0.40
1:K:207:TRP:CZ2	1:K:224:ILE:HD11	2.56	0.40
1:K:271:VAL:O	1:K:274:PHE:N	2.54	0.40
1:K:450:PRO:O	1:K:453:PHE:N	2.55	0.40
1:L:153:LEU:CD2	1:L:267:ARG:HD3	2.51	0.40
1:L:305:LEU:HD23	1:L:305:LEU:HA	1.84	0.40
1:L:413:LYS:CD	1:L:422:ILE:O	2.61	0.40
1:L:468:TYR:HE1	1:L:497:LEU:HB2	1.85	0.40
1:M:28:ASP:HB2	1:M:31:ASP:CG	2.42	0.40
1:M:450:PRO:O	1:M:453:PHE:N	2.55	0.40
1:M:468:TYR:HE1	1:M:497:LEU:HB2	1.85	0.40
1:N:146:ASN:HB2	1:N:280:THR:CG2	2.51	0.40
1:N:207:TRP:CZ2	1:N:224:ILE:HD11	2.56	0.40
1:O:560:ASP:O	1:O:564:ILE:HG12	2.21	0.40
1:O:1195:VAL:HG11	1:O:1241:PHE:CZ	2.54	0.40
1:P:428:GLU:C	1:P:430:LYS:N	2.74	0.40
1:P:560:ASP:HA	1:P:592:ASN:ND2	2.29	0.40
1:P:560:ASP:O	1:P:564:ILE:HG12	2.21	0.40
1:P:717:PHE:HB2	1:P:771:PHE:HD1	1.86	0.40
1:A:428:GLU:OE1	1:A:429:LEU:N	2.54	0.40
1:A:468:TYR:HE1	1:A:497:LEU:HB2	1.85	0.40
1:A:717:PHE:HB2	1:A:771:PHE:HD1	1.86	0.40
1:B:89:MET:O	1:B:92:ILE:HG22	2.21	0.40
1:C:146:ASN:HB2	1:C:280:THR:CG2	2.51	0.40
1:C:967:PRO:HD2	1:C:976:ASP:HB2	2.03	0.40
1:C:1247:LEU:HD12	1:C:1263:MET:HG2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:42:LYS:HG3	1:D:46:ASP:OD2	2.22	0.40
1:D:250:ALA:C	1:D:251:APK:O	2.59	0.40
1:D:428:GLU:C	1:D:430:LYS:N	2.74	0.40
1:D:781:VAL:HG11	1:D:791:TRP:HZ3	1.86	0.40
1:D:967:PRO:HD2	1:D:976:ASP:HB2	2.04	0.40
1:E:28:ASP:HB2	1:E:31:ASP:CG	2.42	0.40
1:E:146:ASN:HB2	1:E:280:THR:CG2	2.51	0.40
1:E:428:GLU:OE1	1:E:429:LEU:N	2.54	0.40
1:E:616:LEU:HG	1:E:618:ASN:H	1.86	0.40
1:F:146:ASN:HB2	1:F:280:THR:CG2	2.51	0.40
1:F:462:TYR:CZ	1:F:494:PHE:CZ	3.03	0.40
1:F:511:SER:HA	1:F:514:ILE:H	1.87	0.40
1:F:553:LEU:HD23	1:F:553:LEU:HA	1.90	0.40
1:F:967:PRO:HD2	1:F:976:ASP:HB2	2.04	0.40
1:G:28:ASP:HB2	1:G:31:ASP:CG	2.42	0.40
1:G:549:ILE:HD12	1:G:550:GLU:H	1.85	0.40
1:G:560:ASP:HA	1:G:592:ASN:ND2	2.29	0.40
1:G:717:PHE:HB2	1:G:771:PHE:HD1	1.86	0.40
1:G:768:ILE:HG23	1:G:769:ARG:H	1.87	0.40
1:G:994:HIS:CE1	1:G:1023:ILE:HG23	2.56	0.40
1:H:89:MET:O	1:H:92:ILE:HG22	2.22	0.40
1:H:147:VAL:HG23	1:H:263:LEU:HG	2.03	0.40
1:H:458:LEU:HD23	1:H:459:ILE:N	2.27	0.40
1:I:28:ASP:HB2	1:I:31:ASP:CG	2.42	0.40
1:I:42:LYS:HG3	1:I:46:ASP:OD2	2.22	0.40
1:I:428:GLU:C	1:I:430:LYS:N	2.74	0.40
1:J:146:ASN:HB2	1:J:280:THR:CG2	2.51	0.40
1:J:519:GLN:HG2	1:J:523:PHE:HE2	1.84	0.40
1:J:560:ASP:HA	1:J:592:ASN:ND2	2.29	0.40
1:J:616:LEU:HG	1:J:618:ASN:H	1.86	0.40
1:K:28:ASP:HB2	1:K:31:ASP:CG	2.42	0.40
1:K:42:LYS:HG3	1:K:46:ASP:OD2	2.21	0.40
1:K:250:ALA:C	1:K:251:APK:O	2.59	0.40
1:K:399:MET:HG3	1:L:335:LEU:CD2	2.52	0.40
1:K:428:GLU:C	1:K:430:LYS:N	2.74	0.40
1:K:656:ARG:HG2	1:K:657:MET:N	2.37	0.40
1:K:717:PHE:HB2	1:K:771:PHE:HD1	1.86	0.40
1:K:967:PRO:HD2	1:K:976:ASP:HB2	2.04	0.40
1:L:146:ASN:HB2	1:L:280:THR:CG2	2.51	0.40
1:L:462:TYR:OH	1:L:494:PHE:CZ	2.66	0.40
1:L:1009:ILE:HG13	1:L:1011:PRO:HD3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:1247:LEU:HD12	1:L:1263:MET:HG2	2.04	0.40
1:M:89:MET:O	1:M:92:ILE:HG22	2.22	0.40
1:M:244:LEU:HD21	1:M:256:PHE:CD2	2.51	0.40
1:M:511:SER:HA	1:M:514:ILE:H	1.86	0.40
1:M:717:PHE:HB2	1:M:771:PHE:HD1	1.86	0.40
1:N:113:LEU:HA	1:N:113:LEU:HD12	1.84	0.40
1:O:89:MET:O	1:O:92:ILE:HG22	2.22	0.40
1:O:146:ASN:HB2	1:O:280:THR:CG2	2.51	0.40
1:O:147:VAL:HG23	1:O:263:LEU:HG	2.03	0.40
1:O:312:LEU:HD23	1:O:312:LEU:C	2.40	0.40
1:O:458:LEU:HD23	1:O:459:ILE:N	2.27	0.40
1:O:519:GLN:HG2	1:O:523:PHE:HE2	1.84	0.40
1:O:781:VAL:HG11	1:O:791:TRP:HZ3	1.86	0.40
1:O:833:LYS:HB3	1:O:834:TYR:H	1.63	0.40
1:P:42:LYS:HG3	1:P:46:ASP:OD2	2.22	0.40
1:P:462:TYR:OH	1:P:494:PHE:CZ	2.66	0.40
1:P:549:ILE:HD12	1:P:550:GLU:H	1.85	0.40
1:P:656:ARG:HG2	1:P:657:MET:N	2.37	0.40
1:P:994:HIS:CE1	1:P:1023:ILE:HG23	2.56	0.40
1:A:28:ASP:HB2	1:A:31:ASP:CG	2.42	0.40
1:A:447:TYR:OH	1:A:486:LEU:CD2	2.67	0.40
1:A:464:ASP:O	1:A:468:TYR:CD2	2.75	0.40
1:A:1009:ILE:HG13	1:A:1011:PRO:HD3	2.03	0.40
1:B:244:LEU:HD21	1:B:256:PHE:CD2	2.51	0.40
1:B:616:LEU:HG	1:B:618:ASN:H	1.86	0.40
1:B:717:PHE:HB2	1:B:771:PHE:HD1	1.86	0.40
1:B:967:PRO:HD2	1:B:976:ASP:HB2	2.04	0.40
1:B:1247:LEU:HD12	1:B:1263:MET:HG2	2.04	0.40
1:C:153:LEU:CD2	1:C:267:ARG:HD3	2.51	0.40
1:C:468:TYR:HE1	1:C:497:LEU:HB2	1.85	0.40
1:C:545:PHE:CE1	1:C:565:ALA:HA	2.55	0.40
1:D:119:VAL:HG23	1:D:120:PHE:N	2.29	0.40
1:D:656:ARG:HG2	1:D:657:MET:N	2.37	0.40
1:E:905:VAL:HG13	1:E:906:ASP:H	1.85	0.40
1:F:147:VAL:HG23	1:F:263:LEU:HG	2.03	0.40
1:F:1051:GLN:HG3	1:F:1053:PHE:CD2	2.55	0.40
1:G:146:ASN:HB2	1:G:280:THR:CG2	2.51	0.40
1:G:207:TRP:CZ2	1:G:224:ILE:HD11	2.56	0.40
1:G:331:ILE:HD12	1:G:338:TRP:H	1.85	0.40
1:G:603:ILE:HD11	1:G:635:VAL:HG11	2.03	0.40
1:G:656:ARG:HG2	1:G:657:MET:N	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:833:LYS:HB3	1:G:834:TYR:H	1.63	0.40
1:G:914:VAL:O	1:G:915:TYR:C	2.60	0.40
1:G:1247:LEU:HD12	1:G:1263:MET:HG2	2.04	0.40
1:H:28:ASP:HB2	1:H:31:ASP:CG	2.42	0.40
1:H:146:ASN:HB2	1:H:280:THR:CG2	2.51	0.40
1:H:428:GLU:C	1:H:430:LYS:N	2.74	0.40
1:H:464:ASP:O	1:H:468:TYR:CD2	2.75	0.40
1:H:519:GLN:HG2	1:H:523:PHE:HE2	1.84	0.40
1:H:822:ARG:HH12	1:H:838:ARG:NH2	2.20	0.40
1:I:222:HIS:CG	1:J:198:LYS:HZ1	2.39	0.40
1:I:336:ALA:C	1:I:338:TRP:N	2.74	0.40
1:I:361:GLU:CB	1:I:364:GLU:HB3	2.52	0.40
1:I:511:SER:HA	1:I:514:ILE:H	1.86	0.40
1:I:555:CYS:HA	1:I:558:TYR:HB2	2.04	0.40
1:J:28:ASP:HB2	1:J:31:ASP:CG	2.42	0.40
1:L:271:VAL:O	1:L:274:PHE:N	2.54	0.40
1:L:967:PRO:HD2	1:L:976:ASP:HB2	2.04	0.40
1:M:42:LYS:HG3	1:M:46:ASP:OD2	2.22	0.40
1:M:361:GLU:CB	1:M:364:GLU:HB3	2.52	0.40
1:M:967:PRO:HD2	1:M:976:ASP:HB2	2.04	0.40
1:N:428:GLU:OE1	1:N:429:LEU:N	2.54	0.40
1:N:1009:ILE:HG13	1:N:1011:PRO:HD3	2.03	0.40
1:N:1192:SER:OG	1:N:1208:GLU:OE2	2.28	0.40
1:O:28:ASP:HB2	1:O:31:ASP:CG	2.42	0.40
1:O:42:LYS:HG3	1:O:46:ASP:OD2	2.22	0.40
1:O:337:THR:HG1	1:O:340:ASN:N	2.20	0.40
1:O:464:ASP:O	1:O:468:TYR:CD2	2.75	0.40
1:O:633:THR:HG22	1:O:643:TYR:HA	1.97	0.40
1:O:1247:LEU:HD12	1:O:1263:MET:HG2	2.04	0.40
1:P:28:ASP:HB2	1:P:31:ASP:CG	2.42	0.40
1:P:146:ASN:HB2	1:P:280:THR:CG2	2.51	0.40
1:P:207:TRP:CZ2	1:P:224:ILE:HD11	2.56	0.40
1:P:768:ILE:HG23	1:P:769:ARG:H	1.87	0.40
1:P:822:ARG:HH12	1:P:838:ARG:NH2	2.20	0.40
1:P:1247:LEU:HD12	1:P:1263:MET:HG2	2.04	0.40
1:A:146:ASN:HB2	1:A:280:THR:CG2	2.51	0.40
1:B:42:LYS:HG3	1:B:46:ASP:OD2	2.22	0.40
1:B:337:THR:HG1	1:B:340:ASN:N	2.20	0.40
1:B:361:GLU:CB	1:B:364:GLU:HB3	2.52	0.40
1:B:549:ILE:HD12	1:B:550:GLU:H	1.85	0.40
1:C:271:VAL:O	1:C:274:PHE:N	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:470:HIS:O	1:C:473:HIS:N	2.53	0.40
1:C:1009:ILE:HG13	1:C:1011:PRO:HD3	2.03	0.40
1:D:557:LYS:HD3	1:D:1223:GLN:NE2	2.35	0.40
1:E:207:TRP:CZ2	1:E:224:ILE:HD11	2.56	0.40
1:E:515:LEU:O	1:E:516:ASN:OD1	2.40	0.40
1:E:560:ASP:O	1:E:564:ILE:HG12	2.21	0.40
1:E:822:ARG:HH12	1:E:838:ARG:NH2	2.20	0.40
1:F:361:GLU:CB	1:F:364:GLU:HB3	2.52	0.40
1:F:555:CYS:HA	1:F:558:TYR:HB2	2.04	0.40
1:F:822:ARG:HH12	1:F:838:ARG:NH2	2.20	0.40
1:G:337:THR:HG1	1:G:340:ASN:N	2.20	0.40
1:G:822:ARG:HH12	1:G:838:ARG:NH2	2.20	0.40
1:G:996:ILE:HD11	1:G:1020:ILE:HG23	2.04	0.40
1:H:42:LYS:HG3	1:H:46:ASP:OD2	2.22	0.40
1:H:312:LEU:HD23	1:H:312:LEU:C	2.41	0.40
1:H:951:VAL:HB	1:H:958:SER:HB3	2.04	0.40
1:I:89:MET:O	1:I:92:ILE:HG22	2.22	0.40
1:I:147:VAL:HG23	1:I:263:LEU:HG	2.03	0.40
1:I:560:ASP:HA	1:I:592:ASN:ND2	2.29	0.40
1:I:656:ARG:HG2	1:I:657:MET:N	2.37	0.40
1:J:515:LEU:O	1:J:516:ASN:OD1	2.40	0.40
1:K:781:VAL:HG11	1:K:791:TRP:HZ3	1.87	0.40
1:L:616:LEU:HG	1:L:618:ASN:H	1.86	0.40
1:M:337:THR:HG1	1:M:340:ASN:N	2.20	0.40
1:M:1247:LEU:HD12	1:M:1263:MET:HG2	2.04	0.40
1:N:28:ASP:HB2	1:N:31:ASP:CG	2.42	0.40
1:N:447:TYR:OH	1:N:486:LEU:CD2	2.67	0.40
1:N:464:ASP:O	1:N:468:TYR:CD2	2.75	0.40
1:O:428:GLU:C	1:O:430:LYS:N	2.74	0.40
1:O:951:VAL:HB	1:O:958:SER:HB3	2.04	0.40
1:P:125:VAL:O	1:P:125:VAL:HG23	2.22	0.40
1:P:331:ILE:HD12	1:P:338:TRP:H	1.85	0.40
1:P:603:ILE:HD11	1:P:635:VAL:HG11	2.03	0.40
1:P:914:VAL:O	1:P:915:TYR:C	2.60	0.40
1:P:996:ILE:HD11	1:P:1020:ILE:HG23	2.03	0.40
1:P:1009:ILE:HG13	1:P:1011:PRO:HD3	2.03	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	B	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	C	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	D	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	E	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	F	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	G	1224/1440 (85%)	989 (81%)	202 (16%)	33 (3%)	5	34
1	H	1224/1440 (85%)	988 (81%)	204 (17%)	32 (3%)	5	35
1	I	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	J	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	K	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	L	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	M	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	N	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
1	O	1224/1440 (85%)	988 (81%)	203 (17%)	33 (3%)	5	34
1	P	1224/1440 (85%)	989 (81%)	203 (17%)	32 (3%)	5	35
All	All	19584/23040 (85%)	15822 (81%)	3248 (17%)	514 (3%)	8	35

All (514) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	252	ALA
1	A	315	GLU
1	A	517	THR
1	A	638	GLU
1	A	760	VAL
1	A	914	VAL

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Mol	Chain	Res	Type
1	B	252	ALA
1	B	315	GLU
1	B	517	THR
1	B	638	GLU
1	B	760	VAL
1	B	914	VAL
1	C	252	ALA
1	C	315	GLU
1	C	517	THR
1	C	638	GLU
1	C	760	VAL
1	C	914	VAL
1	D	252	ALA
1	D	315	GLU
1	D	517	THR
1	D	638	GLU
1	D	760	VAL
1	D	914	VAL
1	E	252	ALA
1	E	315	GLU
1	E	517	THR
1	E	638	GLU
1	E	760	VAL
1	E	914	VAL
1	F	252	ALA
1	F	315	GLU
1	F	517	THR
1	F	638	GLU
1	F	760	VAL
1	F	914	VAL
1	G	252	ALA
1	G	315	GLU
1	G	517	THR
1	G	638	GLU
1	G	760	VAL
1	G	914	VAL
1	H	252	ALA
1	H	315	GLU
1	H	517	THR
1	H	638	GLU
1	H	760	VAL
1	H	914	VAL

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Mol	Chain	Res	Type
1	I	252	ALA
1	I	315	GLU
1	I	517	THR
1	I	638	GLU
1	I	760	VAL
1	I	914	VAL
1	J	252	ALA
1	J	315	GLU
1	J	517	THR
1	J	638	GLU
1	J	760	VAL
1	J	914	VAL
1	K	252	ALA
1	K	315	GLU
1	K	517	THR
1	K	638	GLU
1	K	760	VAL
1	K	914	VAL
1	L	252	ALA
1	L	315	GLU
1	L	517	THR
1	L	638	GLU
1	L	760	VAL
1	L	914	VAL
1	M	252	ALA
1	M	315	GLU
1	M	517	THR
1	M	638	GLU
1	M	760	VAL
1	M	914	VAL
1	N	252	ALA
1	N	315	GLU
1	N	517	THR
1	N	638	GLU
1	N	760	VAL
1	N	914	VAL
1	O	252	ALA
1	O	315	GLU
1	O	517	THR
1	O	638	GLU
1	O	760	VAL
1	O	914	VAL

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Mol	Chain	Res	Type
1	P	252	ALA
1	P	315	GLU
1	P	517	THR
1	P	638	GLU
1	P	760	VAL
1	P	914	VAL
1	A	119	VAL
1	A	253	TRP
1	A	318	THR
1	A	410	LEU
1	A	511	SER
1	A	916	LYS
1	B	119	VAL
1	B	253	TRP
1	B	318	THR
1	B	511	SER
1	B	916	LYS
1	C	119	VAL
1	C	253	TRP
1	C	318	THR
1	C	410	LEU
1	C	511	SER
1	C	916	LYS
1	D	119	VAL
1	D	253	TRP
1	D	318	THR
1	D	511	SER
1	D	916	LYS
1	E	119	VAL
1	E	253	TRP
1	E	318	THR
1	E	410	LEU
1	E	511	SER
1	E	916	LYS
1	F	119	VAL
1	F	253	TRP
1	F	318	THR
1	F	511	SER
1	F	916	LYS
1	G	119	VAL
1	G	253	TRP
1	G	318	THR

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Mol	Chain	Res	Type
1	G	410	LEU
1	G	511	SER
1	G	916	LYS
1	H	119	VAL
1	H	253	TRP
1	H	318	THR
1	H	410	LEU
1	H	511	SER
1	H	916	LYS
1	I	119	VAL
1	I	253	TRP
1	I	318	THR
1	I	511	SER
1	I	916	LYS
1	J	119	VAL
1	J	253	TRP
1	J	318	THR
1	J	511	SER
1	J	916	LYS
1	K	119	VAL
1	K	253	TRP
1	K	318	THR
1	K	511	SER
1	K	916	LYS
1	L	119	VAL
1	L	253	TRP
1	L	318	THR
1	L	410	LEU
1	L	511	SER
1	L	916	LYS
1	M	119	VAL
1	M	253	TRP
1	M	318	THR
1	M	410	LEU
1	M	511	SER
1	M	916	LYS
1	N	119	VAL
1	N	253	TRP
1	N	318	THR
1	N	511	SER
1	N	916	LYS
1	O	119	VAL

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Mol	Chain	Res	Type
1	O	253	TRP
1	O	318	THR
1	O	410	LEU
1	O	511	SER
1	O	916	LYS
1	P	119	VAL
1	P	253	TRP
1	P	318	THR
1	P	410	LEU
1	P	511	SER
1	P	916	LYS
1	A	341	TRP
1	A	430	LYS
1	A	902	ILE
1	A	1031	ILE
1	A	1169	ILE
1	B	341	TRP
1	B	410	LEU
1	B	430	LYS
1	B	902	ILE
1	B	1031	ILE
1	B	1169	ILE
1	C	341	TRP
1	C	430	LYS
1	C	902	ILE
1	C	1031	ILE
1	C	1169	ILE
1	D	341	TRP
1	D	410	LEU
1	D	430	LYS
1	D	902	ILE
1	D	1031	ILE
1	D	1169	ILE
1	E	341	TRP
1	E	430	LYS
1	E	902	ILE
1	E	1031	ILE
1	E	1169	ILE
1	F	341	TRP
1	F	410	LEU
1	F	430	LYS
1	F	902	ILE

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Mol	Chain	Res	Type
1	F	1031	ILE
1	F	1169	ILE
1	G	341	TRP
1	G	430	LYS
1	G	902	ILE
1	G	1031	ILE
1	G	1169	ILE
1	H	341	TRP
1	H	430	LYS
1	H	902	ILE
1	H	1031	ILE
1	H	1169	ILE
1	I	341	TRP
1	I	410	LEU
1	I	430	LYS
1	I	902	ILE
1	I	1031	ILE
1	I	1169	ILE
1	J	341	TRP
1	J	410	LEU
1	J	430	LYS
1	J	902	ILE
1	J	1031	ILE
1	J	1169	ILE
1	K	341	TRP
1	K	410	LEU
1	K	430	LYS
1	K	902	ILE
1	K	1031	ILE
1	K	1169	ILE
1	L	341	TRP
1	L	430	LYS
1	L	902	ILE
1	L	1031	ILE
1	L	1169	ILE
1	M	341	TRP
1	M	430	LYS
1	M	902	ILE
1	M	1031	ILE
1	M	1169	ILE
1	N	341	TRP
1	N	410	LEU

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Mol	Chain	Res	Type
1	N	430	LYS
1	N	902	ILE
1	N	1031	ILE
1	N	1169	ILE
1	O	341	TRP
1	O	430	LYS
1	O	902	ILE
1	O	1031	ILE
1	O	1169	ILE
1	P	341	TRP
1	P	430	LYS
1	P	902	ILE
1	P	1031	ILE
1	P	1169	ILE
1	A	415	PRO
1	A	432	LYS
1	A	439	LEU
1	A	512	GLY
1	A	518	LEU
1	A	706	ILE
1	A	915	TYR
1	B	415	PRO
1	B	432	LYS
1	B	439	LEU
1	B	512	GLY
1	B	518	LEU
1	B	706	ILE
1	B	915	TYR
1	C	415	PRO
1	C	432	LYS
1	C	439	LEU
1	C	512	GLY
1	C	518	LEU
1	C	706	ILE
1	C	915	TYR
1	D	415	PRO
1	D	432	LYS
1	D	439	LEU
1	D	512	GLY
1	D	518	LEU
1	D	706	ILE
1	D	915	TYR

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Mol	Chain	Res	Type
1	E	415	PRO
1	E	432	LYS
1	E	439	LEU
1	E	512	GLY
1	E	518	LEU
1	E	706	ILE
1	E	915	TYR
1	F	415	PRO
1	F	432	LYS
1	F	439	LEU
1	F	512	GLY
1	F	518	LEU
1	F	706	ILE
1	F	915	TYR
1	G	415	PRO
1	G	432	LYS
1	G	439	LEU
1	G	512	GLY
1	G	518	LEU
1	G	706	ILE
1	G	915	TYR
1	H	415	PRO
1	H	432	LYS
1	H	439	LEU
1	H	512	GLY
1	H	518	LEU
1	H	706	ILE
1	H	915	TYR
1	I	415	PRO
1	I	432	LYS
1	I	439	LEU
1	I	512	GLY
1	I	518	LEU
1	I	706	ILE
1	I	915	TYR
1	J	415	PRO
1	J	432	LYS
1	J	439	LEU
1	J	512	GLY
1	J	518	LEU
1	J	706	ILE
1	J	915	TYR

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Mol	Chain	Res	Type
1	K	415	PRO
1	K	432	LYS
1	K	439	LEU
1	K	512	GLY
1	K	518	LEU
1	K	706	ILE
1	K	915	TYR
1	L	415	PRO
1	L	432	LYS
1	L	439	LEU
1	L	512	GLY
1	L	518	LEU
1	L	706	ILE
1	L	915	TYR
1	M	415	PRO
1	M	432	LYS
1	M	439	LEU
1	M	512	GLY
1	M	518	LEU
1	M	706	ILE
1	M	915	TYR
1	N	415	PRO
1	N	432	LYS
1	N	439	LEU
1	N	512	GLY
1	N	518	LEU
1	N	706	ILE
1	N	915	TYR
1	O	415	PRO
1	O	432	LYS
1	O	439	LEU
1	O	512	GLY
1	O	518	LEU
1	O	706	ILE
1	O	915	TYR
1	P	415	PRO
1	P	432	LYS
1	P	439	LEU
1	P	512	GLY
1	P	518	LEU
1	P	706	ILE
1	P	915	TYR

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Mol	Chain	Res	Type
1	A	121	ALA
1	A	126	SER
1	A	316	VAL
1	A	424	SER
1	A	1228	ILE
1	B	121	ALA
1	B	126	SER
1	B	316	VAL
1	B	424	SER
1	B	1228	ILE
1	C	121	ALA
1	C	126	SER
1	C	316	VAL
1	C	424	SER
1	C	1228	ILE
1	D	121	ALA
1	D	126	SER
1	D	316	VAL
1	D	424	SER
1	D	1228	ILE
1	E	121	ALA
1	E	126	SER
1	E	316	VAL
1	E	424	SER
1	E	1228	ILE
1	F	121	ALA
1	F	126	SER
1	F	316	VAL
1	F	424	SER
1	F	1228	ILE
1	G	121	ALA
1	G	126	SER
1	G	316	VAL
1	G	424	SER
1	G	1228	ILE
1	H	121	ALA
1	H	126	SER
1	H	316	VAL
1	H	424	SER
1	H	1228	ILE
1	I	121	ALA
1	I	126	SER

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Mol	Chain	Res	Type
1	I	316	VAL
1	I	424	SER
1	I	1228	ILE
1	J	121	ALA
1	J	126	SER
1	J	316	VAL
1	J	424	SER
1	J	1228	ILE
1	K	121	ALA
1	K	126	SER
1	K	316	VAL
1	K	424	SER
1	K	1228	ILE
1	L	121	ALA
1	L	126	SER
1	L	316	VAL
1	L	424	SER
1	L	1228	ILE
1	M	121	ALA
1	M	126	SER
1	M	316	VAL
1	M	424	SER
1	M	1228	ILE
1	N	121	ALA
1	N	126	SER
1	N	316	VAL
1	N	424	SER
1	N	1228	ILE
1	O	121	ALA
1	O	126	SER
1	O	316	VAL
1	O	424	SER
1	O	1228	ILE
1	P	121	ALA
1	P	126	SER
1	P	316	VAL
1	P	424	SER
1	P	1228	ILE
1	G	194	GLU
1	O	194	GLU
1	A	919	VAL
1	B	919	VAL

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Mol	Chain	Res	Type
1	C	919	VAL
1	D	919	VAL
1	E	919	VAL
1	F	919	VAL
1	G	919	VAL
1	H	919	VAL
1	I	919	VAL
1	J	919	VAL
1	K	919	VAL
1	L	919	VAL
1	M	919	VAL
1	N	919	VAL
1	O	919	VAL
1	P	919	VAL
1	F	344	VAL
1	G	344	VAL
1	J	344	VAL
1	N	344	VAL
1	N	883	ILE
1	A	344	VAL
1	A	883	ILE
1	B	344	VAL
1	B	883	ILE
1	C	344	VAL
1	C	883	ILE
1	D	344	VAL
1	D	883	ILE
1	E	344	VAL
1	E	883	ILE
1	F	883	ILE
1	G	883	ILE
1	H	344	VAL
1	H	883	ILE
1	I	344	VAL
1	I	883	ILE
1	J	883	ILE
1	K	344	VAL
1	K	883	ILE
1	L	344	VAL
1	L	883	ILE
1	M	344	VAL
1	M	883	ILE

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Mol	Chain	Res	Type
1	O	344	VAL
1	O	883	ILE
1	P	344	VAL
1	P	883	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	B	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	C	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	D	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	E	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	F	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	G	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	H	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	I	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	J	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	K	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	L	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	M	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	N	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	O	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
1	P	1138/1315 (86%)	1137 (100%)	1 (0%)	93	97
All	All	18208/21040 (86%)	18192 (100%)	16 (0%)	93	97

All (16) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	914	VAL
1	B	914	VAL
1	C	914	VAL
1	D	914	VAL
1	E	914	VAL
1	F	914	VAL
1	G	914	VAL
1	H	914	VAL
1	I	914	VAL
1	J	914	VAL
1	K	914	VAL
1	L	914	VAL
1	M	914	VAL
1	N	914	VAL
1	O	914	VAL
1	P	914	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (462) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	11	GLN
1	A	146	ASN
1	A	171	GLN
1	A	182	ASN
1	A	187	ASN
1	A	222	HIS
1	A	249	ASN
1	A	282	HIS
1	A	287	HIS
1	A	435	ASN
1	A	446	HIS
1	A	473	HIS
1	A	477	ASN
1	A	509	ASN
1	A	592	ASN
1	A	604	ASN
1	A	608	ASN
1	A	612	HIS
1	A	618	ASN
1	A	670	HIS
1	A	738	ASN
1	A	810	ASN
1	A	850	GLN

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Mol	Chain	Res	Type
1	A	930	HIS
1	A	952	HIS
1	A	968	ASN
1	A	994	HIS
1	A	1027	ASN
1	A	1223	GLN
1	B	11	GLN
1	B	146	ASN
1	B	171	GLN
1	B	182	ASN
1	B	187	ASN
1	B	222	HIS
1	B	249	ASN
1	B	282	HIS
1	B	287	HIS
1	B	435	ASN
1	B	446	HIS
1	B	473	HIS
1	B	477	ASN
1	B	509	ASN
1	B	592	ASN
1	B	604	ASN
1	B	608	ASN
1	B	612	HIS
1	B	618	ASN
1	B	670	HIS
1	B	738	ASN
1	B	810	ASN
1	B	850	GLN
1	B	930	HIS
1	B	952	HIS
1	B	968	ASN
1	B	994	HIS
1	B	1027	ASN
1	B	1223	GLN
1	C	11	GLN
1	C	146	ASN
1	C	171	GLN
1	C	182	ASN
1	C	187	ASN
1	C	249	ASN
1	C	282	HIS

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Mol	Chain	Res	Type
1	C	287	HIS
1	C	435	ASN
1	C	446	HIS
1	C	473	HIS
1	C	477	ASN
1	C	509	ASN
1	C	592	ASN
1	C	604	ASN
1	C	608	ASN
1	C	612	HIS
1	C	618	ASN
1	C	670	HIS
1	C	738	ASN
1	C	810	ASN
1	C	850	GLN
1	C	930	HIS
1	C	952	HIS
1	C	968	ASN
1	C	994	HIS
1	C	1027	ASN
1	C	1223	GLN
1	D	11	GLN
1	D	146	ASN
1	D	171	GLN
1	D	182	ASN
1	D	187	ASN
1	D	222	HIS
1	D	249	ASN
1	D	282	HIS
1	D	287	HIS
1	D	435	ASN
1	D	446	HIS
1	D	473	HIS
1	D	477	ASN
1	D	509	ASN
1	D	592	ASN
1	D	604	ASN
1	D	608	ASN
1	D	612	HIS
1	D	618	ASN
1	D	670	HIS
1	D	738	ASN

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Mol	Chain	Res	Type
1	D	810	ASN
1	D	850	GLN
1	D	930	HIS
1	D	952	HIS
1	D	968	ASN
1	D	994	HIS
1	D	1027	ASN
1	D	1223	GLN
1	E	11	GLN
1	E	146	ASN
1	E	171	GLN
1	E	182	ASN
1	E	187	ASN
1	E	222	HIS
1	E	249	ASN
1	E	282	HIS
1	E	287	HIS
1	E	435	ASN
1	E	446	HIS
1	E	473	HIS
1	E	477	ASN
1	E	509	ASN
1	E	592	ASN
1	E	604	ASN
1	E	608	ASN
1	E	612	HIS
1	E	618	ASN
1	E	670	HIS
1	E	738	ASN
1	E	810	ASN
1	E	850	GLN
1	E	930	HIS
1	E	952	HIS
1	E	968	ASN
1	E	994	HIS
1	E	1027	ASN
1	E	1223	GLN
1	F	11	GLN
1	F	117	ASN
1	F	146	ASN
1	F	171	GLN
1	F	182	ASN

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Mol	Chain	Res	Type
1	F	187	ASN
1	F	222	HIS
1	F	249	ASN
1	F	282	HIS
1	F	287	HIS
1	F	435	ASN
1	F	446	HIS
1	F	473	HIS
1	F	477	ASN
1	F	509	ASN
1	F	592	ASN
1	F	604	ASN
1	F	608	ASN
1	F	612	HIS
1	F	618	ASN
1	F	670	HIS
1	F	738	ASN
1	F	810	ASN
1	F	850	GLN
1	F	930	HIS
1	F	952	HIS
1	F	968	ASN
1	F	994	HIS
1	F	1027	ASN
1	F	1223	GLN
1	G	11	GLN
1	G	146	ASN
1	G	171	GLN
1	G	182	ASN
1	G	187	ASN
1	G	222	HIS
1	G	249	ASN
1	G	282	HIS
1	G	287	HIS
1	G	435	ASN
1	G	446	HIS
1	G	473	HIS
1	G	477	ASN
1	G	509	ASN
1	G	592	ASN
1	G	604	ASN
1	G	608	ASN

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Mol	Chain	Res	Type
1	G	612	HIS
1	G	618	ASN
1	G	670	HIS
1	G	738	ASN
1	G	810	ASN
1	G	850	GLN
1	G	930	HIS
1	G	952	HIS
1	G	968	ASN
1	G	994	HIS
1	G	1027	ASN
1	G	1223	GLN
1	H	11	GLN
1	H	146	ASN
1	H	171	GLN
1	H	182	ASN
1	H	187	ASN
1	H	222	HIS
1	H	249	ASN
1	H	282	HIS
1	H	287	HIS
1	H	435	ASN
1	H	446	HIS
1	H	473	HIS
1	H	477	ASN
1	H	509	ASN
1	H	592	ASN
1	H	604	ASN
1	H	608	ASN
1	H	612	HIS
1	H	618	ASN
1	H	670	HIS
1	H	738	ASN
1	H	810	ASN
1	H	850	GLN
1	H	930	HIS
1	H	952	HIS
1	H	968	ASN
1	H	994	HIS
1	H	1027	ASN
1	H	1223	GLN
1	I	11	GLN

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Mol	Chain	Res	Type
1	I	146	ASN
1	I	171	GLN
1	I	182	ASN
1	I	187	ASN
1	I	222	HIS
1	I	249	ASN
1	I	282	HIS
1	I	287	HIS
1	I	435	ASN
1	I	446	HIS
1	I	473	HIS
1	I	477	ASN
1	I	509	ASN
1	I	592	ASN
1	I	604	ASN
1	I	612	HIS
1	I	618	ASN
1	I	670	HIS
1	I	738	ASN
1	I	810	ASN
1	I	850	GLN
1	I	930	HIS
1	I	952	HIS
1	I	968	ASN
1	I	994	HIS
1	I	1027	ASN
1	I	1223	GLN
1	J	11	GLN
1	J	146	ASN
1	J	171	GLN
1	J	182	ASN
1	J	187	ASN
1	J	222	HIS
1	J	249	ASN
1	J	282	HIS
1	J	287	HIS
1	J	435	ASN
1	J	446	HIS
1	J	473	HIS
1	J	477	ASN
1	J	509	ASN
1	J	592	ASN

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Mol	Chain	Res	Type
1	J	604	ASN
1	J	608	ASN
1	J	612	HIS
1	J	618	ASN
1	J	670	HIS
1	J	738	ASN
1	J	810	ASN
1	J	850	GLN
1	J	930	HIS
1	J	952	HIS
1	J	968	ASN
1	J	994	HIS
1	J	1027	ASN
1	J	1223	GLN
1	K	11	GLN
1	K	146	ASN
1	K	171	GLN
1	K	182	ASN
1	K	187	ASN
1	K	222	HIS
1	K	249	ASN
1	K	282	HIS
1	K	287	HIS
1	K	435	ASN
1	K	446	HIS
1	K	473	HIS
1	K	477	ASN
1	K	509	ASN
1	K	592	ASN
1	K	604	ASN
1	K	608	ASN
1	K	612	HIS
1	K	618	ASN
1	K	670	HIS
1	K	738	ASN
1	K	810	ASN
1	K	850	GLN
1	K	930	HIS
1	K	952	HIS
1	K	968	ASN
1	K	994	HIS
1	K	1027	ASN

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Mol	Chain	Res	Type
1	K	1223	GLN
1	L	11	GLN
1	L	146	ASN
1	L	171	GLN
1	L	182	ASN
1	L	187	ASN
1	L	249	ASN
1	L	282	HIS
1	L	287	HIS
1	L	435	ASN
1	L	446	HIS
1	L	473	HIS
1	L	477	ASN
1	L	509	ASN
1	L	592	ASN
1	L	604	ASN
1	L	608	ASN
1	L	612	HIS
1	L	618	ASN
1	L	670	HIS
1	L	738	ASN
1	L	810	ASN
1	L	850	GLN
1	L	930	HIS
1	L	952	HIS
1	L	968	ASN
1	L	994	HIS
1	L	1027	ASN
1	L	1223	GLN
1	M	11	GLN
1	M	146	ASN
1	M	171	GLN
1	M	182	ASN
1	M	187	ASN
1	M	222	HIS
1	M	249	ASN
1	M	282	HIS
1	M	287	HIS
1	M	435	ASN
1	M	446	HIS
1	M	473	HIS
1	M	477	ASN

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Mol	Chain	Res	Type
1	M	509	ASN
1	M	592	ASN
1	M	604	ASN
1	M	608	ASN
1	M	612	HIS
1	M	618	ASN
1	M	670	HIS
1	M	738	ASN
1	M	810	ASN
1	M	850	GLN
1	M	930	HIS
1	M	952	HIS
1	M	968	ASN
1	M	994	HIS
1	M	1027	ASN
1	M	1223	GLN
1	N	11	GLN
1	N	146	ASN
1	N	171	GLN
1	N	182	ASN
1	N	187	ASN
1	N	222	HIS
1	N	249	ASN
1	N	282	HIS
1	N	287	HIS
1	N	435	ASN
1	N	446	HIS
1	N	473	HIS
1	N	477	ASN
1	N	509	ASN
1	N	592	ASN
1	N	604	ASN
1	N	608	ASN
1	N	612	HIS
1	N	618	ASN
1	N	670	HIS
1	N	738	ASN
1	N	810	ASN
1	N	850	GLN
1	N	930	HIS
1	N	952	HIS
1	N	968	ASN

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Mol	Chain	Res	Type
1	N	994	HIS
1	N	1027	ASN
1	N	1223	GLN
1	O	11	GLN
1	O	146	ASN
1	O	171	GLN
1	O	182	ASN
1	O	187	ASN
1	O	222	HIS
1	O	249	ASN
1	O	282	HIS
1	O	287	HIS
1	O	435	ASN
1	O	446	HIS
1	O	473	HIS
1	O	477	ASN
1	O	509	ASN
1	O	592	ASN
1	O	604	ASN
1	O	608	ASN
1	O	612	HIS
1	O	618	ASN
1	O	670	HIS
1	O	738	ASN
1	O	810	ASN
1	O	850	GLN
1	O	930	HIS
1	O	952	HIS
1	O	968	ASN
1	O	994	HIS
1	O	1027	ASN
1	O	1223	GLN
1	P	11	GLN
1	P	146	ASN
1	P	171	GLN
1	P	182	ASN
1	P	187	ASN
1	P	222	HIS
1	P	249	ASN
1	P	282	HIS
1	P	287	HIS
1	P	435	ASN

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Mol	Chain	Res	Type
1	P	446	HIS
1	P	473	HIS
1	P	477	ASN
1	P	509	ASN
1	P	592	ASN
1	P	604	ASN
1	P	608	ASN
1	P	612	HIS
1	P	618	ASN
1	P	670	HIS
1	P	738	ASN
1	P	810	ASN
1	P	850	GLN
1	P	930	HIS
1	P	952	HIS
1	P	968	ASN
1	P	994	HIS
1	P	1027	ASN
1	P	1223	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

16 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	$\#\|Z\| > 2$
1	APK	H	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.98	7 (25%)
1	APK	I	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	A	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	M	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	APK	F	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	O	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	P	251	1	29,33,33	2.96	12 (41%)	28,47,47	3.00	7 (25%)
1	APK	K	251	1	29,33,33	2.98	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	E	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	C	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	J	251	1	29,33,33	2.96	12 (41%)	28,47,47	3.00	7 (25%)
1	APK	N	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	G	251	1	29,33,33	2.97	12 (41%)	28,47,47	3.00	7 (25%)
1	APK	L	251	1	29,33,33	2.98	12 (41%)	28,47,47	2.99	7 (25%)
1	APK	D	251	1	29,33,33	2.98	12 (41%)	28,47,47	3.00	7 (25%)
1	APK	B	251	1	29,33,33	2.97	12 (41%)	28,47,47	2.99	7 (25%)

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
1	APK	H	251	1	-	9/15/37/37	0/3/3/3
1	APK	I	251	1	-	9/15/37/37	0/3/3/3
1	APK	A	251	1	-	9/15/37/37	0/3/3/3
1	APK	M	251	1	-	9/15/37/37	0/3/3/3
1	APK	F	251	1	-	9/15/37/37	0/3/3/3
1	APK	O	251	1	-	9/15/37/37	0/3/3/3
1	APK	P	251	1	-	9/15/37/37	0/3/3/3
1	APK	K	251	1	-	9/15/37/37	0/3/3/3
1	APK	E	251	1	-	9/15/37/37	0/3/3/3
1	APK	C	251	1	-	9/15/37/37	0/3/3/3
1	APK	J	251	1	-	9/15/37/37	0/3/3/3
1	APK	N	251	1	-	9/15/37/37	0/3/3/3
1	APK	G	251	1	-	9/15/37/37	0/3/3/3
1	APK	L	251	1	-	9/15/37/37	0/3/3/3
1	APK	D	251	1	-	9/15/37/37	0/3/3/3
1	APK	B	251	1	-	9/15/37/37	0/3/3/3

All (192) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	251	APK	C2'-C3'	-8.14	1.31	1.53
1	B	251	APK	C2'-C3'	-8.13	1.31	1.53
1	K	251	APK	C2'-C3'	-8.13	1.31	1.53
1	G	251	APK	C2'-C3'	-8.12	1.31	1.53
1	N	251	APK	C2'-C3'	-8.12	1.31	1.53
1	F	251	APK	C2'-C3'	-8.11	1.31	1.53
1	A	251	APK	C2'-C3'	-8.11	1.31	1.53
1	E	251	APK	C2'-C3'	-8.11	1.31	1.53
1	L	251	APK	C2'-C3'	-8.11	1.31	1.53
1	D	251	APK	C2'-C3'	-8.09	1.31	1.53
1	H	251	APK	C2'-C3'	-8.09	1.31	1.53
1	I	251	APK	C2'-C3'	-8.09	1.31	1.53
1	M	251	APK	C2'-C3'	-8.09	1.31	1.53
1	O	251	APK	C2'-C3'	-8.09	1.31	1.53
1	P	251	APK	C2'-C3'	-8.09	1.31	1.53
1	J	251	APK	C2'-C3'	-8.08	1.31	1.53
1	L	251	APK	P-NZ	7.45	1.69	1.61
1	K	251	APK	P-NZ	7.43	1.69	1.61
1	H	251	APK	P-NZ	7.41	1.69	1.61
1	B	251	APK	P-NZ	7.41	1.69	1.61
1	D	251	APK	P-NZ	7.41	1.69	1.61
1	A	251	APK	P-NZ	7.37	1.69	1.61
1	N	251	APK	P-NZ	7.37	1.69	1.61
1	E	251	APK	P-NZ	7.36	1.69	1.61
1	G	251	APK	P-NZ	7.36	1.69	1.61
1	J	251	APK	P-NZ	7.36	1.69	1.61
1	F	251	APK	P-NZ	7.36	1.69	1.61
1	P	251	APK	P-NZ	7.35	1.69	1.61
1	I	251	APK	P-NZ	7.34	1.69	1.61
1	M	251	APK	P-NZ	7.34	1.69	1.61
1	O	251	APK	P-NZ	7.34	1.69	1.61
1	C	251	APK	P-NZ	7.30	1.69	1.61
1	D	251	APK	O3'-C3'	5.61	1.56	1.43
1	F	251	APK	O3'-C3'	5.61	1.56	1.43
1	G	251	APK	O3'-C3'	5.61	1.56	1.43
1	I	251	APK	O3'-C3'	5.60	1.56	1.43
1	N	251	APK	O3'-C3'	5.60	1.56	1.43
1	O	251	APK	O3'-C3'	5.60	1.56	1.43
1	A	251	APK	O3'-C3'	5.59	1.56	1.43
1	C	251	APK	O3'-C3'	5.59	1.56	1.43
1	L	251	APK	O3'-C3'	5.59	1.56	1.43
1	E	251	APK	O3'-C3'	5.59	1.56	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	P	251	APK	O3'-C3'	5.58	1.56	1.43
1	B	251	APK	O3'-C3'	5.58	1.56	1.43
1	J	251	APK	O3'-C3'	5.57	1.56	1.43
1	K	251	APK	O3'-C3'	5.57	1.56	1.43
1	H	251	APK	O3'-C3'	5.57	1.56	1.43
1	M	251	APK	O3'-C3'	5.57	1.56	1.43
1	O	251	APK	C4-N3	-4.84	1.29	1.35
1	E	251	APK	C4-N3	-4.82	1.29	1.35
1	G	251	APK	C4-N3	-4.81	1.29	1.35
1	A	251	APK	C4-N3	-4.81	1.29	1.35
1	F	251	APK	C4-N3	-4.81	1.29	1.35
1	D	251	APK	C4-N3	-4.80	1.29	1.35
1	H	251	APK	C4-N3	-4.80	1.29	1.35
1	I	251	APK	C4-N3	-4.80	1.29	1.35
1	M	251	APK	C4-N3	-4.80	1.29	1.35
1	J	251	APK	C4-N3	-4.79	1.29	1.35
1	N	251	APK	C4-N3	-4.79	1.29	1.35
1	C	251	APK	C4-N3	-4.79	1.29	1.35
1	L	251	APK	C4-N3	-4.79	1.29	1.35
1	K	251	APK	C4-N3	-4.78	1.29	1.35
1	P	251	APK	C4-N3	-4.78	1.29	1.35
1	B	251	APK	C4-N3	-4.75	1.29	1.35
1	L	251	APK	C8-N7	-4.43	1.26	1.34
1	O	251	APK	C8-N7	-4.42	1.26	1.34
1	J	251	APK	C8-N7	-4.42	1.26	1.34
1	B	251	APK	C8-N7	-4.42	1.26	1.34
1	D	251	APK	C8-N7	-4.41	1.26	1.34
1	H	251	APK	C8-N7	-4.41	1.26	1.34
1	I	251	APK	C8-N7	-4.41	1.26	1.34
1	M	251	APK	C8-N7	-4.41	1.26	1.34
1	P	251	APK	C8-N7	-4.40	1.26	1.34
1	A	251	APK	C8-N7	-4.40	1.26	1.34
1	C	251	APK	C8-N7	-4.40	1.26	1.34
1	F	251	APK	C8-N7	-4.39	1.26	1.34
1	E	251	APK	C8-N7	-4.39	1.26	1.34
1	K	251	APK	C8-N7	-4.38	1.26	1.34
1	G	251	APK	C8-N7	-4.38	1.26	1.34
1	N	251	APK	C8-N7	-4.38	1.26	1.34
1	D	251	APK	P-O1P	3.91	1.52	1.46
1	C	251	APK	P-O1P	3.91	1.52	1.46
1	G	251	APK	P-O1P	3.89	1.52	1.46
1	A	251	APK	P-O1P	3.89	1.52	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	K	251	APK	P-O1P	3.89	1.52	1.46
1	H	251	APK	P-O1P	3.87	1.52	1.46
1	I	251	APK	P-O1P	3.87	1.52	1.46
1	N	251	APK	P-O1P	3.87	1.52	1.46
1	M	251	APK	P-O1P	3.87	1.52	1.46
1	O	251	APK	P-O1P	3.87	1.52	1.46
1	P	251	APK	P-O1P	3.86	1.52	1.46
1	L	251	APK	P-O1P	3.85	1.52	1.46
1	J	251	APK	P-O1P	3.84	1.52	1.46
1	B	251	APK	P-O1P	3.84	1.52	1.46
1	E	251	APK	P-O1P	3.84	1.52	1.46
1	F	251	APK	P-O1P	3.84	1.52	1.46
1	K	251	APK	C6-N6	3.10	1.45	1.34
1	H	251	APK	C6-N6	3.08	1.45	1.34
1	L	251	APK	C6-N6	3.08	1.45	1.34
1	E	251	APK	C6-N6	3.08	1.45	1.34
1	F	251	APK	C6-N6	3.07	1.45	1.34
1	D	251	APK	C6-N6	3.07	1.45	1.34
1	J	251	APK	C6-N6	3.07	1.45	1.34
1	C	251	APK	C6-N6	3.07	1.45	1.34
1	A	251	APK	C6-N6	3.07	1.45	1.34
1	P	251	APK	C6-N6	3.07	1.45	1.34
1	B	251	APK	C6-N6	3.07	1.45	1.34
1	I	251	APK	C6-N6	3.07	1.45	1.34
1	M	251	APK	C6-N6	3.06	1.45	1.34
1	N	251	APK	C6-N6	3.06	1.45	1.34
1	G	251	APK	C6-N6	3.05	1.45	1.34
1	O	251	APK	C6-N6	3.05	1.45	1.34
1	D	251	APK	P-O2P	-3.04	1.48	1.56
1	K	251	APK	P-O2P	-3.04	1.48	1.56
1	E	251	APK	P-O2P	-3.03	1.48	1.56
1	A	251	APK	P-O2P	-3.02	1.48	1.56
1	C	251	APK	P-O2P	-3.02	1.48	1.56
1	H	251	APK	P-O2P	-3.02	1.48	1.56
1	I	251	APK	P-O2P	-3.02	1.48	1.56
1	M	251	APK	P-O2P	-3.02	1.48	1.56
1	O	251	APK	P-O2P	-3.02	1.48	1.56
1	F	251	APK	P-O2P	-3.01	1.48	1.56
1	J	251	APK	P-O2P	-3.01	1.48	1.56
1	N	251	APK	P-O2P	-3.01	1.48	1.56
1	P	251	APK	P-O2P	-3.01	1.48	1.56
1	G	251	APK	P-O2P	-3.01	1.48	1.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	251	APK	P-O2P	-3.01	1.48	1.56
1	L	251	APK	P-O2P	-3.00	1.48	1.56
1	O	251	APK	CA-N	-2.45	1.40	1.48
1	L	251	APK	CA-N	-2.45	1.40	1.48
1	C	251	APK	CA-N	-2.44	1.40	1.48
1	G	251	APK	CA-N	-2.44	1.40	1.48
1	F	251	APK	CA-N	-2.43	1.40	1.48
1	M	251	APK	CA-N	-2.43	1.40	1.48
1	A	251	APK	CA-N	-2.43	1.40	1.48
1	B	251	APK	CA-N	-2.43	1.40	1.48
1	K	251	APK	CA-N	-2.43	1.40	1.48
1	P	251	APK	CA-N	-2.43	1.40	1.48
1	H	251	APK	CA-N	-2.43	1.40	1.48
1	I	251	APK	CA-N	-2.43	1.40	1.48
1	E	251	APK	CA-N	-2.42	1.40	1.48
1	J	251	APK	CA-N	-2.41	1.40	1.48
1	N	251	APK	CA-N	-2.41	1.40	1.48
1	D	251	APK	CA-N	-2.40	1.40	1.48
1	I	251	APK	O2'-C2'	2.21	1.48	1.43
1	F	251	APK	O2'-C2'	2.20	1.48	1.43
1	N	251	APK	C2'-C1'	-2.20	1.50	1.53
1	K	251	APK	O2'-C2'	2.20	1.48	1.43
1	M	251	APK	C2'-C1'	-2.19	1.50	1.53
1	L	251	APK	O2'-C2'	2.19	1.48	1.43
1	N	251	APK	O2'-C2'	2.19	1.48	1.43
1	M	251	APK	O2'-C2'	2.19	1.48	1.43
1	A	251	APK	O2'-C2'	2.18	1.48	1.43
1	O	251	APK	C5-N7	-2.18	1.31	1.39
1	D	251	APK	O2'-C2'	2.18	1.48	1.43
1	E	251	APK	O2'-C2'	2.18	1.48	1.43
1	C	251	APK	O2'-C2'	2.17	1.48	1.43
1	H	251	APK	O2'-C2'	2.17	1.48	1.43
1	O	251	APK	O2'-C2'	2.17	1.48	1.43
1	C	251	APK	C5-N7	-2.17	1.31	1.39
1	J	251	APK	O2'-C2'	2.17	1.48	1.43
1	G	251	APK	O2'-C2'	2.17	1.48	1.43
1	J	251	APK	C5-N7	-2.16	1.31	1.39
1	P	251	APK	C5-N7	-2.16	1.31	1.39
1	B	251	APK	O2'-C2'	2.16	1.48	1.43
1	G	251	APK	C5-N7	-2.16	1.31	1.39
1	P	251	APK	O2'-C2'	2.16	1.48	1.43
1	L	251	APK	C5-N7	-2.15	1.31	1.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	251	APK	C5-N7	-2.15	1.31	1.39
1	A	251	APK	C5-N7	-2.15	1.31	1.39
1	E	251	APK	C5-N7	-2.15	1.31	1.39
1	N	251	APK	C5-N7	-2.15	1.31	1.39
1	B	251	APK	C5-N7	-2.15	1.31	1.39
1	K	251	APK	C2'-C1'	-2.15	1.50	1.53
1	L	251	APK	C2'-C1'	-2.15	1.50	1.53
1	K	251	APK	C5-N7	-2.15	1.31	1.39
1	H	251	APK	C5-N7	-2.14	1.32	1.39
1	I	251	APK	C5-N7	-2.14	1.32	1.39
1	M	251	APK	C5-N7	-2.14	1.32	1.39
1	G	251	APK	C2'-C1'	-2.14	1.50	1.53
1	D	251	APK	C5-N7	-2.14	1.32	1.39
1	D	251	APK	C2'-C1'	-2.14	1.50	1.53
1	P	251	APK	C2'-C1'	-2.14	1.50	1.53
1	H	251	APK	C2'-C1'	-2.14	1.50	1.53
1	I	251	APK	C2'-C1'	-2.14	1.50	1.53
1	O	251	APK	C2'-C1'	-2.14	1.50	1.53
1	A	251	APK	C2'-C1'	-2.14	1.50	1.53
1	F	251	APK	C2'-C1'	-2.13	1.50	1.53
1	B	251	APK	C2'-C1'	-2.12	1.50	1.53
1	J	251	APK	C2'-C1'	-2.10	1.50	1.53
1	C	251	APK	C2'-C1'	-2.10	1.50	1.53
1	E	251	APK	C2'-C1'	-2.08	1.50	1.53

All (112) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	251	APK	C1'-N9-C4	8.31	141.23	126.64
1	A	251	APK	C1'-N9-C4	8.30	141.23	126.64
1	D	251	APK	C1'-N9-C4	8.30	141.22	126.64
1	P	251	APK	C1'-N9-C4	8.30	141.22	126.64
1	B	251	APK	C1'-N9-C4	8.29	141.21	126.64
1	G	251	APK	C1'-N9-C4	8.29	141.21	126.64
1	O	251	APK	C1'-N9-C4	8.29	141.21	126.64
1	L	251	APK	C1'-N9-C4	8.28	141.20	126.64
1	N	251	APK	C1'-N9-C4	8.28	141.19	126.64
1	M	251	APK	C1'-N9-C4	8.28	141.19	126.64
1	H	251	APK	C1'-N9-C4	8.27	141.17	126.64
1	I	251	APK	C1'-N9-C4	8.27	141.17	126.64
1	F	251	APK	C1'-N9-C4	8.26	141.16	126.64
1	E	251	APK	C1'-N9-C4	8.26	141.15	126.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	251	APK	C1'-N9-C4	8.25	141.13	126.64
1	K	251	APK	C1'-N9-C4	8.25	141.13	126.64
1	C	251	APK	C4-C5-N7	7.86	117.59	109.40
1	G	251	APK	C4-C5-N7	7.85	117.58	109.40
1	P	251	APK	C4-C5-N7	7.84	117.57	109.40
1	J	251	APK	C4-C5-N7	7.83	117.56	109.40
1	N	251	APK	C4-C5-N7	7.83	117.56	109.40
1	O	251	APK	C4-C5-N7	7.82	117.55	109.40
1	A	251	APK	C4-C5-N7	7.81	117.53	109.40
1	E	251	APK	C4-C5-N7	7.80	117.53	109.40
1	F	251	APK	C4-C5-N7	7.80	117.53	109.40
1	K	251	APK	C4-C5-N7	7.79	117.52	109.40
1	L	251	APK	C4-C5-N7	7.79	117.52	109.40
1	D	251	APK	C4-C5-N7	7.79	117.52	109.40
1	I	251	APK	C4-C5-N7	7.78	117.51	109.40
1	M	251	APK	C4-C5-N7	7.78	117.51	109.40
1	B	251	APK	C4-C5-N7	7.75	117.48	109.40
1	H	251	APK	C4-C5-N7	7.75	117.48	109.40
1	C	251	APK	N3-C2-N1	-5.26	120.46	128.68
1	D	251	APK	N3-C2-N1	-5.25	120.47	128.68
1	E	251	APK	N3-C2-N1	-5.25	120.47	128.68
1	F	251	APK	N3-C2-N1	-5.25	120.47	128.68
1	P	251	APK	N3-C2-N1	-5.25	120.48	128.68
1	H	251	APK	N3-C2-N1	-5.24	120.49	128.68
1	K	251	APK	N3-C2-N1	-5.24	120.49	128.68
1	M	251	APK	N3-C2-N1	-5.24	120.49	128.68
1	O	251	APK	N3-C2-N1	-5.24	120.49	128.68
1	A	251	APK	N3-C2-N1	-5.24	120.50	128.68
1	B	251	APK	N3-C2-N1	-5.23	120.51	128.68
1	L	251	APK	N3-C2-N1	-5.23	120.51	128.68
1	J	251	APK	N3-C2-N1	-5.22	120.51	128.68
1	N	251	APK	N3-C2-N1	-5.22	120.51	128.68
1	G	251	APK	N3-C2-N1	-5.22	120.52	128.68
1	I	251	APK	N3-C2-N1	-5.21	120.53	128.68
1	D	251	APK	C2'-C3'-C4'	5.00	112.36	102.64
1	G	251	APK	C2'-C3'-C4'	5.00	112.35	102.64
1	F	251	APK	C2'-C3'-C4'	5.00	112.35	102.64
1	P	251	APK	C2'-C3'-C4'	4.99	112.35	102.64
1	A	251	APK	C2'-C3'-C4'	4.99	112.34	102.64
1	K	251	APK	C2'-C3'-C4'	4.99	112.34	102.64
1	C	251	APK	C2'-C3'-C4'	4.99	112.34	102.64
1	E	251	APK	C2'-C3'-C4'	4.99	112.34	102.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	251	APK	C2'-C3'-C4'	4.99	112.34	102.64
1	L	251	APK	C2'-C3'-C4'	4.99	112.33	102.64
1	N	251	APK	C2'-C3'-C4'	4.99	112.33	102.64
1	J	251	APK	C2'-C3'-C4'	4.98	112.33	102.64
1	I	251	APK	C2'-C3'-C4'	4.98	112.31	102.64
1	O	251	APK	C2'-C3'-C4'	4.98	112.31	102.64
1	H	251	APK	C2'-C3'-C4'	4.97	112.30	102.64
1	M	251	APK	C2'-C3'-C4'	4.97	112.30	102.64
1	K	251	APK	O4'-C4'-C3'	-4.82	95.57	105.11
1	B	251	APK	O4'-C4'-C3'	-4.81	95.59	105.11
1	J	251	APK	O4'-C4'-C3'	-4.81	95.59	105.11
1	C	251	APK	O4'-C4'-C3'	-4.80	95.61	105.11
1	G	251	APK	O4'-C4'-C3'	-4.80	95.61	105.11
1	E	251	APK	O4'-C4'-C3'	-4.80	95.61	105.11
1	P	251	APK	O4'-C4'-C3'	-4.80	95.62	105.11
1	F	251	APK	O4'-C4'-C3'	-4.80	95.62	105.11
1	A	251	APK	O4'-C4'-C3'	-4.80	95.62	105.11
1	D	251	APK	O4'-C4'-C3'	-4.80	95.62	105.11
1	I	251	APK	O4'-C4'-C3'	-4.80	95.62	105.11
1	M	251	APK	O4'-C4'-C3'	-4.79	95.63	105.11
1	N	251	APK	O4'-C4'-C3'	-4.79	95.63	105.11
1	O	251	APK	O4'-C4'-C3'	-4.79	95.64	105.11
1	H	251	APK	O4'-C4'-C3'	-4.78	95.65	105.11
1	L	251	APK	O4'-C4'-C3'	-4.78	95.66	105.11
1	D	251	APK	C3'-C2'-C1'	-4.28	94.54	100.98
1	P	251	APK	C3'-C2'-C1'	-4.27	94.55	100.98
1	J	251	APK	C3'-C2'-C1'	-4.27	94.55	100.98
1	K	251	APK	C3'-C2'-C1'	-4.26	94.56	100.98
1	H	251	APK	C3'-C2'-C1'	-4.26	94.57	100.98
1	I	251	APK	C3'-C2'-C1'	-4.26	94.57	100.98
1	O	251	APK	C3'-C2'-C1'	-4.26	94.57	100.98
1	A	251	APK	C3'-C2'-C1'	-4.26	94.57	100.98
1	F	251	APK	C3'-C2'-C1'	-4.25	94.58	100.98
1	E	251	APK	C3'-C2'-C1'	-4.24	94.59	100.98
1	M	251	APK	C3'-C2'-C1'	-4.24	94.59	100.98
1	N	251	APK	C3'-C2'-C1'	-4.24	94.59	100.98
1	C	251	APK	C3'-C2'-C1'	-4.24	94.60	100.98
1	G	251	APK	C3'-C2'-C1'	-4.24	94.60	100.98
1	B	251	APK	C3'-C2'-C1'	-4.23	94.61	100.98
1	L	251	APK	C3'-C2'-C1'	-4.23	94.61	100.98
1	G	251	APK	P-NZ-CE	-3.53	119.63	124.67
1	N	251	APK	P-NZ-CE	-3.51	119.65	124.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L	251	APK	P-NZ-CE	-3.51	119.66	124.67
1	K	251	APK	P-NZ-CE	-3.50	119.66	124.67
1	A	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	H	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	B	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	I	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	M	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	O	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	F	251	APK	P-NZ-CE	-3.50	119.67	124.67
1	C	251	APK	P-NZ-CE	-3.49	119.68	124.67
1	D	251	APK	P-NZ-CE	-3.49	119.68	124.67
1	J	251	APK	P-NZ-CE	-3.49	119.68	124.67
1	P	251	APK	P-NZ-CE	-3.49	119.69	124.67
1	E	251	APK	P-NZ-CE	-3.48	119.70	124.67

There are no chirality outliers.

All (144) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	251	APK	O-C-CA-CB
1	A	251	APK	CG-CD-CE-NZ
1	A	251	APK	C5'-O5'-P-O2P
1	A	251	APK	C4'-C5'-O5'-P
1	B	251	APK	O-C-CA-CB
1	B	251	APK	CG-CD-CE-NZ
1	B	251	APK	C5'-O5'-P-O2P
1	B	251	APK	C4'-C5'-O5'-P
1	C	251	APK	O-C-CA-CB
1	C	251	APK	CG-CD-CE-NZ
1	C	251	APK	C5'-O5'-P-O2P
1	C	251	APK	C4'-C5'-O5'-P
1	D	251	APK	O-C-CA-CB
1	D	251	APK	CG-CD-CE-NZ
1	D	251	APK	C5'-O5'-P-O2P
1	D	251	APK	C4'-C5'-O5'-P
1	E	251	APK	O-C-CA-CB
1	E	251	APK	CG-CD-CE-NZ
1	E	251	APK	C5'-O5'-P-O2P
1	E	251	APK	C4'-C5'-O5'-P
1	F	251	APK	O-C-CA-CB
1	F	251	APK	CG-CD-CE-NZ
1	F	251	APK	C5'-O5'-P-O2P

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Mol	Chain	Res	Type	Atoms
1	F	251	APK	C4'-C5'-O5'-P
1	G	251	APK	O-C-CA-CB
1	G	251	APK	CG-CD-CE-NZ
1	G	251	APK	C5'-O5'-P-O2P
1	G	251	APK	C4'-C5'-O5'-P
1	H	251	APK	O-C-CA-CB
1	H	251	APK	CG-CD-CE-NZ
1	H	251	APK	C5'-O5'-P-O2P
1	H	251	APK	C4'-C5'-O5'-P
1	I	251	APK	O-C-CA-CB
1	I	251	APK	CG-CD-CE-NZ
1	I	251	APK	C5'-O5'-P-O2P
1	I	251	APK	C4'-C5'-O5'-P
1	J	251	APK	O-C-CA-CB
1	J	251	APK	CG-CD-CE-NZ
1	J	251	APK	C5'-O5'-P-O2P
1	J	251	APK	C4'-C5'-O5'-P
1	K	251	APK	O-C-CA-CB
1	K	251	APK	CG-CD-CE-NZ
1	K	251	APK	C5'-O5'-P-O2P
1	K	251	APK	C4'-C5'-O5'-P
1	L	251	APK	O-C-CA-CB
1	L	251	APK	CG-CD-CE-NZ
1	L	251	APK	C5'-O5'-P-O2P
1	L	251	APK	C4'-C5'-O5'-P
1	M	251	APK	O-C-CA-CB
1	M	251	APK	CG-CD-CE-NZ
1	M	251	APK	C5'-O5'-P-O2P
1	M	251	APK	C4'-C5'-O5'-P
1	N	251	APK	O-C-CA-CB
1	N	251	APK	CG-CD-CE-NZ
1	N	251	APK	C5'-O5'-P-O2P
1	N	251	APK	C4'-C5'-O5'-P
1	O	251	APK	O-C-CA-CB
1	O	251	APK	CG-CD-CE-NZ
1	O	251	APK	C5'-O5'-P-O2P
1	O	251	APK	C4'-C5'-O5'-P
1	P	251	APK	O-C-CA-CB
1	P	251	APK	CG-CD-CE-NZ
1	P	251	APK	C5'-O5'-P-O2P
1	P	251	APK	C4'-C5'-O5'-P
1	A	251	APK	C5'-O5'-P-O1P

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Mol	Chain	Res	Type	Atoms
1	B	251	APK	C5'-O5'-P-O1P
1	C	251	APK	C5'-O5'-P-O1P
1	D	251	APK	C5'-O5'-P-O1P
1	E	251	APK	C5'-O5'-P-O1P
1	F	251	APK	C5'-O5'-P-O1P
1	G	251	APK	C5'-O5'-P-O1P
1	H	251	APK	C5'-O5'-P-O1P
1	I	251	APK	C5'-O5'-P-O1P
1	J	251	APK	C5'-O5'-P-O1P
1	K	251	APK	C5'-O5'-P-O1P
1	L	251	APK	C5'-O5'-P-O1P
1	M	251	APK	C5'-O5'-P-O1P
1	N	251	APK	C5'-O5'-P-O1P
1	O	251	APK	C5'-O5'-P-O1P
1	P	251	APK	C5'-O5'-P-O1P
1	A	251	APK	CA-CB-CG-CD
1	B	251	APK	CA-CB-CG-CD
1	C	251	APK	CA-CB-CG-CD
1	D	251	APK	CA-CB-CG-CD
1	E	251	APK	CA-CB-CG-CD
1	F	251	APK	CA-CB-CG-CD
1	G	251	APK	CA-CB-CG-CD
1	H	251	APK	CA-CB-CG-CD
1	I	251	APK	CA-CB-CG-CD
1	J	251	APK	CA-CB-CG-CD
1	K	251	APK	CA-CB-CG-CD
1	L	251	APK	CA-CB-CG-CD
1	M	251	APK	CA-CB-CG-CD
1	N	251	APK	CA-CB-CG-CD
1	O	251	APK	CA-CB-CG-CD
1	P	251	APK	CA-CB-CG-CD
1	A	251	APK	C5'-O5'-P-NZ
1	B	251	APK	C5'-O5'-P-NZ
1	C	251	APK	C5'-O5'-P-NZ
1	D	251	APK	C5'-O5'-P-NZ
1	E	251	APK	C5'-O5'-P-NZ
1	F	251	APK	C5'-O5'-P-NZ
1	G	251	APK	C5'-O5'-P-NZ
1	H	251	APK	C5'-O5'-P-NZ
1	I	251	APK	C5'-O5'-P-NZ
1	J	251	APK	C5'-O5'-P-NZ
1	K	251	APK	C5'-O5'-P-NZ

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Mol	Chain	Res	Type	Atoms
1	L	251	APK	C5'-O5'-P-NZ
1	M	251	APK	C5'-O5'-P-NZ
1	N	251	APK	C5'-O5'-P-NZ
1	O	251	APK	C5'-O5'-P-NZ
1	P	251	APK	C5'-O5'-P-NZ
1	A	251	APK	CE-NZ-P-O1P
1	B	251	APK	CE-NZ-P-O1P
1	C	251	APK	CE-NZ-P-O1P
1	D	251	APK	CE-NZ-P-O1P
1	E	251	APK	CE-NZ-P-O1P
1	F	251	APK	CE-NZ-P-O1P
1	G	251	APK	CE-NZ-P-O1P
1	H	251	APK	CE-NZ-P-O1P
1	I	251	APK	CE-NZ-P-O1P
1	J	251	APK	CE-NZ-P-O1P
1	K	251	APK	CE-NZ-P-O1P
1	L	251	APK	CE-NZ-P-O1P
1	M	251	APK	CE-NZ-P-O1P
1	N	251	APK	CE-NZ-P-O1P
1	O	251	APK	CE-NZ-P-O1P
1	P	251	APK	CE-NZ-P-O1P
1	A	251	APK	C3'-C4'-C5'-O5'
1	B	251	APK	C3'-C4'-C5'-O5'
1	C	251	APK	C3'-C4'-C5'-O5'
1	D	251	APK	C3'-C4'-C5'-O5'
1	E	251	APK	C3'-C4'-C5'-O5'
1	F	251	APK	C3'-C4'-C5'-O5'
1	G	251	APK	C3'-C4'-C5'-O5'
1	H	251	APK	C3'-C4'-C5'-O5'
1	I	251	APK	C3'-C4'-C5'-O5'
1	J	251	APK	C3'-C4'-C5'-O5'
1	K	251	APK	C3'-C4'-C5'-O5'
1	L	251	APK	C3'-C4'-C5'-O5'
1	M	251	APK	C3'-C4'-C5'-O5'
1	N	251	APK	C3'-C4'-C5'-O5'
1	O	251	APK	C3'-C4'-C5'-O5'
1	P	251	APK	C3'-C4'-C5'-O5'

There are no ring outliers.

16 monomers are involved in 99 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	H	251	APK	6	0
1	I	251	APK	6	0
1	A	251	APK	6	0
1	M	251	APK	6	0
1	F	251	APK	6	0
1	O	251	APK	5	0
1	P	251	APK	6	0
1	K	251	APK	7	0
1	E	251	APK	6	0
1	C	251	APK	7	0
1	J	251	APK	6	0
1	N	251	APK	6	0
1	G	251	APK	6	0
1	L	251	APK	7	0
1	D	251	APK	7	0
1	B	251	APK	6	0

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

16 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	DTP	L	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	A	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.72	7 (23%)
2	DTP	P	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	H	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.72	7 (23%)
2	DTP	I	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	C	1501	-	26,32,32	3.68	8 (30%)	30,50,50	2.72	7 (23%)
2	DTP	M	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.75	7 (23%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	DTP	O	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	G	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.72	7 (23%)
2	DTP	E	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.71	7 (23%)
2	DTP	J	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	F	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.72	7 (23%)
2	DTP	D	1501	-	26,32,32	3.68	8 (30%)	30,50,50	2.72	7 (23%)
2	DTP	K	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	N	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.74	7 (23%)
2	DTP	B	1501	-	26,32,32	3.67	8 (30%)	30,50,50	2.72	7 (23%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	DTP	L	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	A	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	P	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	H	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	I	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	C	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	M	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	O	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	G	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	E	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	J	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	F	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	D	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	K	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	N	1501	-	-	3/18/34/34	0/3/3/3
2	DTP	B	1501	-	-	3/18/34/34	0/3/3/3

All (128) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	C	1501	DTP	C2'-C3'	-12.38	1.20	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	1501	DTP	C2'-C3'	-12.38	1.20	1.52
2	M	1501	DTP	C2'-C3'	-12.37	1.20	1.52
2	G	1501	DTP	C2'-C3'	-12.37	1.20	1.52
2	F	1501	DTP	C2'-C3'	-12.37	1.20	1.52
2	B	1501	DTP	C2'-C3'	-12.36	1.20	1.52
2	I	1501	DTP	C2'-C3'	-12.36	1.20	1.52
2	O	1501	DTP	C2'-C3'	-12.36	1.20	1.52
2	A	1501	DTP	C2'-C3'	-12.36	1.20	1.52
2	L	1501	DTP	C2'-C3'	-12.36	1.20	1.52
2	H	1501	DTP	C2'-C3'	-12.36	1.20	1.52
2	J	1501	DTP	C2'-C3'	-12.35	1.20	1.52
2	K	1501	DTP	C2'-C3'	-12.35	1.20	1.52
2	E	1501	DTP	C2'-C3'	-12.34	1.20	1.52
2	N	1501	DTP	C2'-C3'	-12.34	1.20	1.52
2	P	1501	DTP	C2'-C3'	-12.34	1.20	1.52
2	P	1501	DTP	O4'-C4'	-8.80	1.25	1.45
2	C	1501	DTP	O4'-C4'	-8.79	1.25	1.45
2	E	1501	DTP	O4'-C4'	-8.78	1.25	1.45
2	B	1501	DTP	O4'-C4'	-8.78	1.25	1.45
2	D	1501	DTP	O4'-C4'	-8.78	1.25	1.45
2	H	1501	DTP	O4'-C4'	-8.77	1.25	1.45
2	J	1501	DTP	O4'-C4'	-8.76	1.25	1.45
2	K	1501	DTP	O4'-C4'	-8.76	1.25	1.45
2	A	1501	DTP	O4'-C4'	-8.76	1.25	1.45
2	G	1501	DTP	O4'-C4'	-8.76	1.25	1.45
2	N	1501	DTP	O4'-C4'	-8.75	1.25	1.45
2	I	1501	DTP	O4'-C4'	-8.75	1.25	1.45
2	M	1501	DTP	O4'-C4'	-8.75	1.25	1.45
2	F	1501	DTP	O4'-C4'	-8.75	1.25	1.45
2	L	1501	DTP	O4'-C4'	-8.75	1.25	1.45
2	O	1501	DTP	O4'-C4'	-8.74	1.25	1.45
2	G	1501	DTP	C1'-N9	-7.31	1.27	1.49
2	H	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	I	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	M	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	E	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	J	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	N	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	B	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	D	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	C	1501	DTP	C1'-N9	-7.30	1.27	1.49
2	K	1501	DTP	C1'-N9	-7.30	1.27	1.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	A	1501	DTP	C1'-N9	-7.29	1.27	1.49
2	L	1501	DTP	C1'-N9	-7.29	1.27	1.49
2	P	1501	DTP	C1'-N9	-7.28	1.27	1.49
2	O	1501	DTP	C1'-N9	-7.27	1.27	1.49
2	F	1501	DTP	C1'-N9	-7.27	1.27	1.49
2	H	1501	DTP	C3'-C4'	3.77	1.63	1.53
2	O	1501	DTP	C3'-C4'	3.77	1.63	1.53
2	F	1501	DTP	C3'-C4'	3.77	1.63	1.53
2	G	1501	DTP	C3'-C4'	3.77	1.63	1.53
2	D	1501	DTP	C3'-C4'	3.76	1.63	1.53
2	M	1501	DTP	C3'-C4'	3.76	1.63	1.53
2	E	1501	DTP	C3'-C4'	3.76	1.63	1.53
2	B	1501	DTP	C3'-C4'	3.76	1.63	1.53
2	C	1501	DTP	C3'-C4'	3.75	1.63	1.53
2	A	1501	DTP	C3'-C4'	3.75	1.63	1.53
2	P	1501	DTP	C3'-C4'	3.75	1.63	1.53
2	L	1501	DTP	C3'-C4'	3.74	1.63	1.53
2	J	1501	DTP	C3'-C4'	3.74	1.63	1.53
2	K	1501	DTP	C3'-C4'	3.74	1.63	1.53
2	I	1501	DTP	C3'-C4'	3.73	1.63	1.53
2	N	1501	DTP	C3'-C4'	3.73	1.63	1.53
2	I	1501	DTP	O4'-C1'	3.33	1.49	1.42
2	E	1501	DTP	O4'-C1'	3.33	1.49	1.42
2	G	1501	DTP	O4'-C1'	3.32	1.49	1.42
2	P	1501	DTP	O4'-C1'	3.31	1.49	1.42
2	C	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	B	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	A	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	M	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	J	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	K	1501	DTP	O4'-C1'	3.30	1.49	1.42
2	O	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	L	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	D	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	F	1501	DTP	O4'-C1'	3.29	1.49	1.42
2	H	1501	DTP	O4'-C1'	3.28	1.49	1.42
2	N	1501	DTP	O4'-C1'	3.27	1.49	1.42
2	B	1501	DTP	C5-C4	-3.24	1.32	1.40
2	G	1501	DTP	C5-C4	-3.23	1.32	1.40
2	F	1501	DTP	C5-C4	-3.22	1.32	1.40
2	H	1501	DTP	C5-C4	-3.22	1.32	1.40
2	M	1501	DTP	C5-C4	-3.22	1.32	1.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	1501	DTP	C5-C4	-3.22	1.32	1.40
2	N	1501	DTP	C5-C4	-3.22	1.32	1.40
2	C	1501	DTP	C5-C4	-3.21	1.32	1.40
2	A	1501	DTP	C5-C4	-3.21	1.32	1.40
2	K	1501	DTP	C5-C4	-3.20	1.32	1.40
2	P	1501	DTP	C5-C4	-3.20	1.32	1.40
2	E	1501	DTP	C5-C4	-3.20	1.32	1.40
2	L	1501	DTP	C5-C4	-3.19	1.32	1.40
2	J	1501	DTP	C5-C4	-3.19	1.32	1.40
2	I	1501	DTP	C5-C4	-3.19	1.32	1.40
2	O	1501	DTP	C5-C4	-3.19	1.32	1.40
2	L	1501	DTP	O3'-C3'	2.46	1.48	1.43
2	I	1501	DTP	O3'-C3'	2.45	1.48	1.43
2	H	1501	DTP	O3'-C3'	2.44	1.48	1.43
2	M	1501	DTP	O3'-C3'	2.44	1.48	1.43
2	E	1501	DTP	O3'-C3'	2.44	1.48	1.43
2	G	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	D	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	J	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	F	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	A	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	C	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	B	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	P	1501	DTP	O3'-C3'	2.43	1.48	1.43
2	N	1501	DTP	O3'-C3'	2.41	1.48	1.43
2	O	1501	DTP	O3'-C3'	2.41	1.48	1.43
2	K	1501	DTP	O3'-C3'	2.39	1.48	1.43
2	O	1501	DTP	C6-C5	-2.19	1.35	1.43
2	C	1501	DTP	C6-C5	-2.18	1.35	1.43
2	L	1501	DTP	C6-C5	-2.18	1.35	1.43
2	J	1501	DTP	C6-C5	-2.18	1.35	1.43
2	I	1501	DTP	C6-C5	-2.17	1.35	1.43
2	G	1501	DTP	C6-C5	-2.17	1.35	1.43
2	P	1501	DTP	C6-C5	-2.17	1.35	1.43
2	F	1501	DTP	C6-C5	-2.17	1.35	1.43
2	A	1501	DTP	C6-C5	-2.16	1.35	1.43
2	M	1501	DTP	C6-C5	-2.16	1.35	1.43
2	K	1501	DTP	C6-C5	-2.16	1.35	1.43
2	D	1501	DTP	C6-C5	-2.15	1.35	1.43
2	E	1501	DTP	C6-C5	-2.15	1.35	1.43
2	N	1501	DTP	C6-C5	-2.15	1.35	1.43
2	H	1501	DTP	C6-C5	-2.15	1.35	1.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	1501	DTP	C6-C5	-2.15	1.35	1.43

All (112) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	1501	DTP	C5-C6-N6	8.55	133.34	120.35
2	B	1501	DTP	C5-C6-N6	8.54	133.33	120.35
2	C	1501	DTP	C5-C6-N6	8.54	133.33	120.35
2	M	1501	DTP	C5-C6-N6	8.54	133.33	120.35
2	D	1501	DTP	C5-C6-N6	8.53	133.32	120.35
2	F	1501	DTP	C5-C6-N6	8.53	133.31	120.35
2	L	1501	DTP	C5-C6-N6	8.53	133.31	120.35
2	J	1501	DTP	C5-C6-N6	8.52	133.30	120.35
2	A	1501	DTP	C5-C6-N6	8.51	133.29	120.35
2	H	1501	DTP	C5-C6-N6	8.51	133.29	120.35
2	G	1501	DTP	C5-C6-N6	8.51	133.28	120.35
2	K	1501	DTP	C5-C6-N6	8.50	133.27	120.35
2	P	1501	DTP	C5-C6-N6	8.50	133.27	120.35
2	O	1501	DTP	C5-C6-N6	8.49	133.25	120.35
2	I	1501	DTP	C5-C6-N6	8.49	133.25	120.35
2	E	1501	DTP	C5-C6-N6	8.48	133.24	120.35
2	M	1501	DTP	PB-O3B-PG	-6.02	112.18	132.83
2	I	1501	DTP	PB-O3B-PG	-6.01	112.19	132.83
2	J	1501	DTP	PB-O3B-PG	-6.01	112.20	132.83
2	L	1501	DTP	PB-O3B-PG	-6.01	112.20	132.83
2	B	1501	DTP	PB-O3B-PG	-6.01	112.20	132.83
2	N	1501	DTP	PB-O3B-PG	-6.01	112.20	132.83
2	D	1501	DTP	PB-O3B-PG	-6.01	112.20	132.83
2	K	1501	DTP	PB-O3B-PG	-6.01	112.21	132.83
2	G	1501	DTP	PB-O3B-PG	-6.01	112.21	132.83
2	O	1501	DTP	PB-O3B-PG	-6.01	112.22	132.83
2	C	1501	DTP	PB-O3B-PG	-6.00	112.22	132.83
2	A	1501	DTP	PB-O3B-PG	-6.00	112.22	132.83
2	E	1501	DTP	PB-O3B-PG	-6.00	112.22	132.83
2	F	1501	DTP	PB-O3B-PG	-6.00	112.22	132.83
2	H	1501	DTP	PB-O3B-PG	-5.99	112.26	132.83
2	P	1501	DTP	PB-O3B-PG	-5.99	112.28	132.83
2	O	1501	DTP	N6-C6-N1	-5.79	106.55	118.57
2	C	1501	DTP	N6-C6-N1	-5.79	106.56	118.57
2	J	1501	DTP	N6-C6-N1	-5.78	106.57	118.57
2	G	1501	DTP	N6-C6-N1	-5.78	106.58	118.57
2	B	1501	DTP	N6-C6-N1	-5.78	106.58	118.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	1501	DTP	N6-C6-N1	-5.78	106.58	118.57
2	M	1501	DTP	N6-C6-N1	-5.78	106.58	118.57
2	A	1501	DTP	N6-C6-N1	-5.78	106.58	118.57
2	L	1501	DTP	N6-C6-N1	-5.78	106.58	118.57
2	N	1501	DTP	N6-C6-N1	-5.78	106.58	118.57
2	D	1501	DTP	N6-C6-N1	-5.77	106.59	118.57
2	I	1501	DTP	N6-C6-N1	-5.77	106.59	118.57
2	E	1501	DTP	N6-C6-N1	-5.76	106.61	118.57
2	P	1501	DTP	N6-C6-N1	-5.76	106.61	118.57
2	F	1501	DTP	N6-C6-N1	-5.76	106.62	118.57
2	K	1501	DTP	N6-C6-N1	-5.76	106.62	118.57
2	P	1501	DTP	N3-C2-N1	-4.87	121.06	128.68
2	L	1501	DTP	N3-C2-N1	-4.87	121.07	128.68
2	H	1501	DTP	N3-C2-N1	-4.86	121.08	128.68
2	M	1501	DTP	N3-C2-N1	-4.86	121.08	128.68
2	E	1501	DTP	N3-C2-N1	-4.86	121.08	128.68
2	D	1501	DTP	N3-C2-N1	-4.85	121.09	128.68
2	K	1501	DTP	N3-C2-N1	-4.85	121.10	128.68
2	A	1501	DTP	N3-C2-N1	-4.84	121.11	128.68
2	J	1501	DTP	N3-C2-N1	-4.84	121.11	128.68
2	N	1501	DTP	N3-C2-N1	-4.84	121.11	128.68
2	I	1501	DTP	N3-C2-N1	-4.84	121.11	128.68
2	F	1501	DTP	N3-C2-N1	-4.83	121.12	128.68
2	G	1501	DTP	N3-C2-N1	-4.83	121.13	128.68
2	O	1501	DTP	N3-C2-N1	-4.83	121.14	128.68
2	C	1501	DTP	N3-C2-N1	-4.82	121.14	128.68
2	B	1501	DTP	N3-C2-N1	-4.82	121.15	128.68
2	N	1501	DTP	C2'-C1'-N9	-4.25	104.47	114.27
2	O	1501	DTP	C2'-C1'-N9	-4.25	104.48	114.27
2	K	1501	DTP	C2'-C1'-N9	-4.24	104.49	114.27
2	F	1501	DTP	C2'-C1'-N9	-4.24	104.50	114.27
2	I	1501	DTP	C2'-C1'-N9	-4.24	104.50	114.27
2	L	1501	DTP	C2'-C1'-N9	-4.24	104.50	114.27
2	G	1501	DTP	C2'-C1'-N9	-4.24	104.50	114.27
2	H	1501	DTP	C2'-C1'-N9	-4.23	104.50	114.27
2	M	1501	DTP	C2'-C1'-N9	-4.23	104.50	114.27
2	J	1501	DTP	C2'-C1'-N9	-4.23	104.51	114.27
2	A	1501	DTP	C2'-C1'-N9	-4.23	104.51	114.27
2	B	1501	DTP	C2'-C1'-N9	-4.23	104.52	114.27
2	E	1501	DTP	C2'-C1'-N9	-4.23	104.52	114.27
2	D	1501	DTP	C2'-C1'-N9	-4.22	104.53	114.27
2	P	1501	DTP	C2'-C1'-N9	-4.22	104.54	114.27

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	C	1501	DTP	C2'-C1'-N9	-4.22	104.55	114.27
2	L	1501	DTP	PA-O3A-PB	-3.76	119.93	132.83
2	M	1501	DTP	PA-O3A-PB	-3.76	119.93	132.83
2	J	1501	DTP	PA-O3A-PB	-3.75	119.96	132.83
2	P	1501	DTP	PA-O3A-PB	-3.75	119.96	132.83
2	A	1501	DTP	PA-O3A-PB	-3.75	119.97	132.83
2	H	1501	DTP	PA-O3A-PB	-3.75	119.97	132.83
2	I	1501	DTP	PA-O3A-PB	-3.75	119.97	132.83
2	B	1501	DTP	PA-O3A-PB	-3.75	119.97	132.83
2	G	1501	DTP	PA-O3A-PB	-3.75	119.97	132.83
2	C	1501	DTP	PA-O3A-PB	-3.74	119.98	132.83
2	E	1501	DTP	PA-O3A-PB	-3.74	119.99	132.83
2	K	1501	DTP	PA-O3A-PB	-3.74	119.99	132.83
2	N	1501	DTP	PA-O3A-PB	-3.74	119.99	132.83
2	D	1501	DTP	PA-O3A-PB	-3.74	120.00	132.83
2	O	1501	DTP	PA-O3A-PB	-3.73	120.02	132.83
2	F	1501	DTP	PA-O3A-PB	-3.73	120.02	132.83
2	C	1501	DTP	C4'-O4'-C1'	-3.44	101.14	109.45
2	B	1501	DTP	C4'-O4'-C1'	-3.44	101.14	109.45
2	F	1501	DTP	C4'-O4'-C1'	-3.44	101.15	109.45
2	E	1501	DTP	C4'-O4'-C1'	-3.43	101.16	109.45
2	O	1501	DTP	C4'-O4'-C1'	-3.43	101.16	109.45
2	I	1501	DTP	C4'-O4'-C1'	-3.43	101.17	109.45
2	A	1501	DTP	C4'-O4'-C1'	-3.43	101.17	109.45
2	P	1501	DTP	C4'-O4'-C1'	-3.43	101.18	109.45
2	M	1501	DTP	C4'-O4'-C1'	-3.42	101.19	109.45
2	K	1501	DTP	C4'-O4'-C1'	-3.42	101.19	109.45
2	L	1501	DTP	C4'-O4'-C1'	-3.42	101.19	109.45
2	D	1501	DTP	C4'-O4'-C1'	-3.42	101.20	109.45
2	G	1501	DTP	C4'-O4'-C1'	-3.42	101.20	109.45
2	H	1501	DTP	C4'-O4'-C1'	-3.42	101.20	109.45
2	J	1501	DTP	C4'-O4'-C1'	-3.42	101.20	109.45
2	N	1501	DTP	C4'-O4'-C1'	-3.41	101.23	109.45

There are no chirality outliers.

All (48) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
2	A	1501	DTP	C3'-C4'-C5'-O5'
2	B	1501	DTP	C3'-C4'-C5'-O5'
2	C	1501	DTP	C3'-C4'-C5'-O5'
2	D	1501	DTP	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
2	E	1501	DTP	C3'-C4'-C5'-O5'
2	F	1501	DTP	C3'-C4'-C5'-O5'
2	G	1501	DTP	C3'-C4'-C5'-O5'
2	H	1501	DTP	C3'-C4'-C5'-O5'
2	I	1501	DTP	C3'-C4'-C5'-O5'
2	J	1501	DTP	C3'-C4'-C5'-O5'
2	K	1501	DTP	C3'-C4'-C5'-O5'
2	L	1501	DTP	C3'-C4'-C5'-O5'
2	M	1501	DTP	C3'-C4'-C5'-O5'
2	N	1501	DTP	C3'-C4'-C5'-O5'
2	O	1501	DTP	C3'-C4'-C5'-O5'
2	P	1501	DTP	C3'-C4'-C5'-O5'
2	A	1501	DTP	O4'-C4'-C5'-O5'
2	B	1501	DTP	O4'-C4'-C5'-O5'
2	C	1501	DTP	O4'-C4'-C5'-O5'
2	D	1501	DTP	O4'-C4'-C5'-O5'
2	E	1501	DTP	O4'-C4'-C5'-O5'
2	F	1501	DTP	O4'-C4'-C5'-O5'
2	G	1501	DTP	O4'-C4'-C5'-O5'
2	H	1501	DTP	O4'-C4'-C5'-O5'
2	I	1501	DTP	O4'-C4'-C5'-O5'
2	J	1501	DTP	O4'-C4'-C5'-O5'
2	K	1501	DTP	O4'-C4'-C5'-O5'
2	L	1501	DTP	O4'-C4'-C5'-O5'
2	M	1501	DTP	O4'-C4'-C5'-O5'
2	N	1501	DTP	O4'-C4'-C5'-O5'
2	O	1501	DTP	O4'-C4'-C5'-O5'
2	P	1501	DTP	O4'-C4'-C5'-O5'
2	A	1501	DTP	C4'-C5'-O5'-PA
2	B	1501	DTP	C4'-C5'-O5'-PA
2	C	1501	DTP	C4'-C5'-O5'-PA
2	D	1501	DTP	C4'-C5'-O5'-PA
2	E	1501	DTP	C4'-C5'-O5'-PA
2	F	1501	DTP	C4'-C5'-O5'-PA
2	G	1501	DTP	C4'-C5'-O5'-PA
2	H	1501	DTP	C4'-C5'-O5'-PA
2	I	1501	DTP	C4'-C5'-O5'-PA
2	J	1501	DTP	C4'-C5'-O5'-PA
2	K	1501	DTP	C4'-C5'-O5'-PA
2	L	1501	DTP	C4'-C5'-O5'-PA
2	M	1501	DTP	C4'-C5'-O5'-PA
2	N	1501	DTP	C4'-C5'-O5'-PA

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Mol	Chain	Res	Type	Atoms
2	O	1501	DTP	C4'-C5'-O5'-PA
2	P	1501	DTP	C4'-C5'-O5'-PA

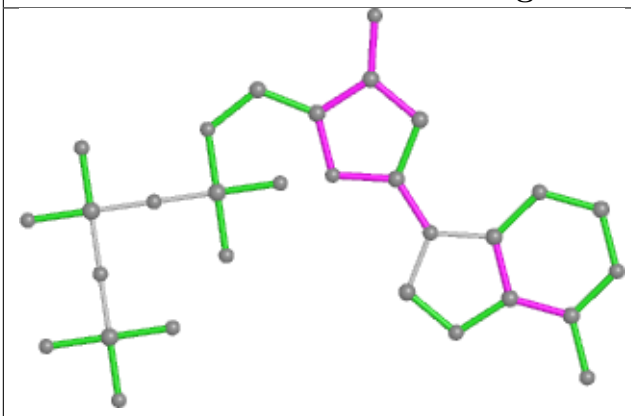
There are no ring outliers.

16 monomers are involved in 97 short contacts:

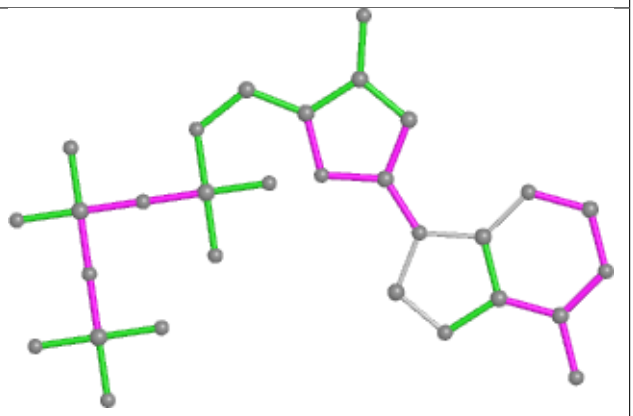
Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	L	1501	DTP	6	0
2	A	1501	DTP	6	0
2	P	1501	DTP	6	0
2	H	1501	DTP	6	0
2	I	1501	DTP	6	0
2	C	1501	DTP	6	0
2	M	1501	DTP	6	0
2	O	1501	DTP	6	0
2	G	1501	DTP	6	0
2	E	1501	DTP	6	0
2	J	1501	DTP	6	0
2	F	1501	DTP	6	0
2	D	1501	DTP	6	0
2	K	1501	DTP	6	0
2	N	1501	DTP	6	0
2	B	1501	DTP	7	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less then 5% of the Mogul distribution of torsion angles is within 10 degrees of the torsion angle in question, then that torsion angle is considered an outlier. Any bond that is central to one or more torsion angles identified as an outlier by Mogul will be highlighted in the graph. For rings, the root-mean-square deviation (RMSD) between the ring in question and similar rings identified by Mogul is calculated over all ring torsion angles. If the average RMSD is greater than 60 degrees and the minimal RMSD between the ring in question and any Mogul-identified rings is also greater than 60 degrees, then that ring is considered an outlier. The outliers are highlighted in purple. The color gray indicates Mogul did not find sufficient equivalents in the CSD to analyse the geometry.

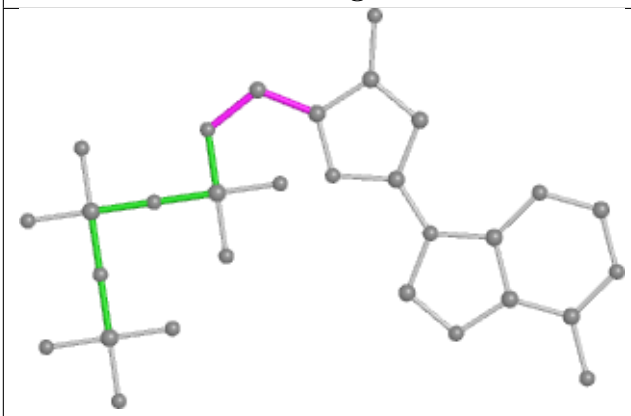
Ligand DTP L 1501



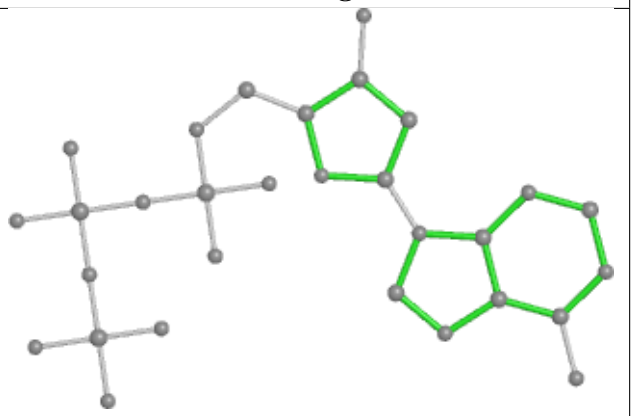
Bond lengths



Bond angles

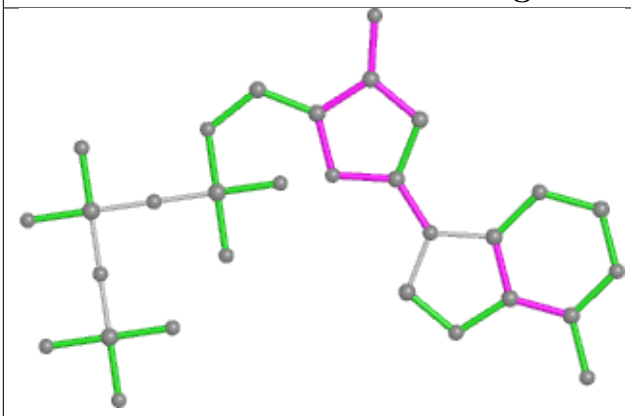


Torsions



Rings

Ligand DTP A 1501



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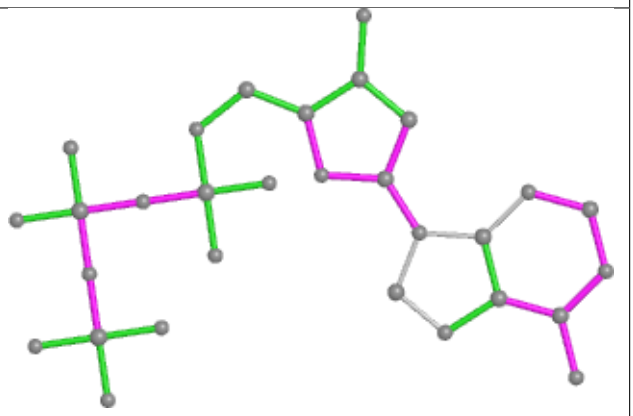
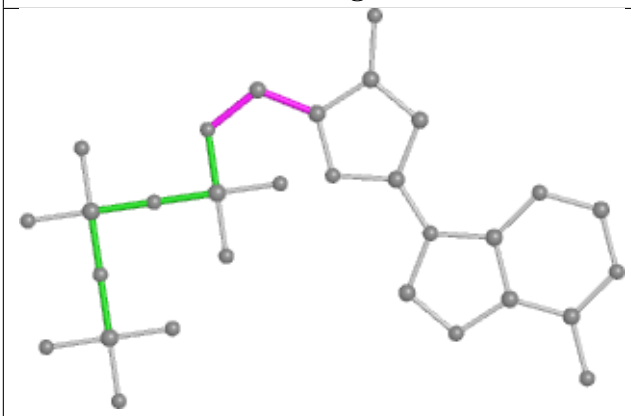


Bond angles



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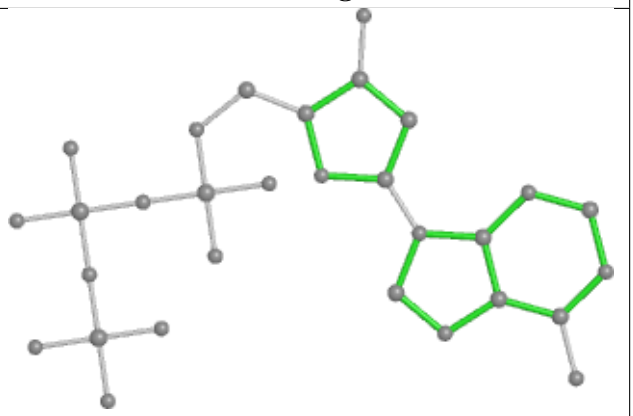

Rings

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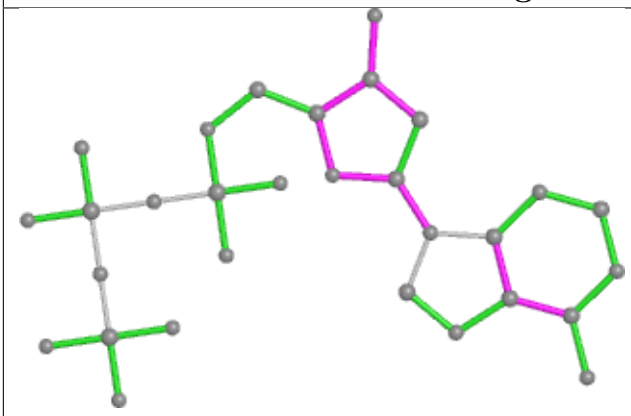
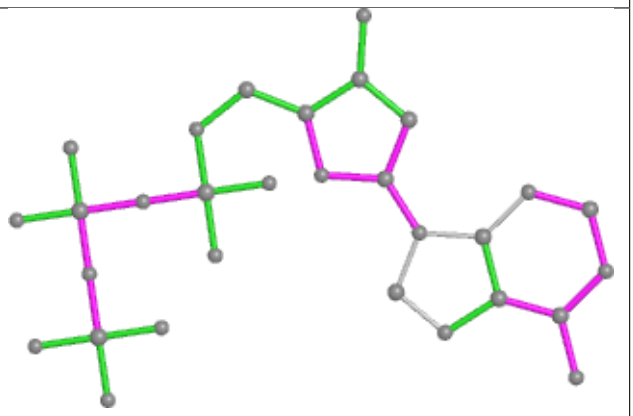
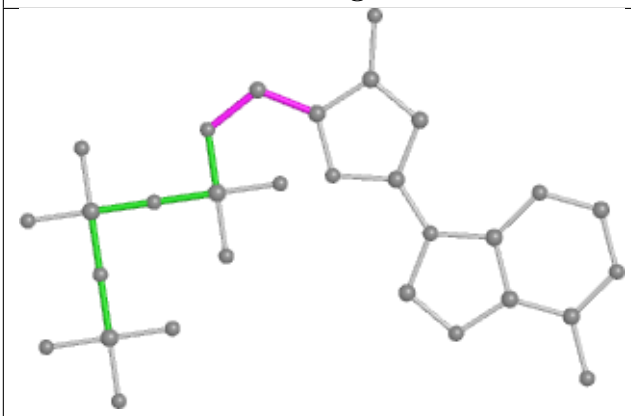


Bond lengths



Bond angles



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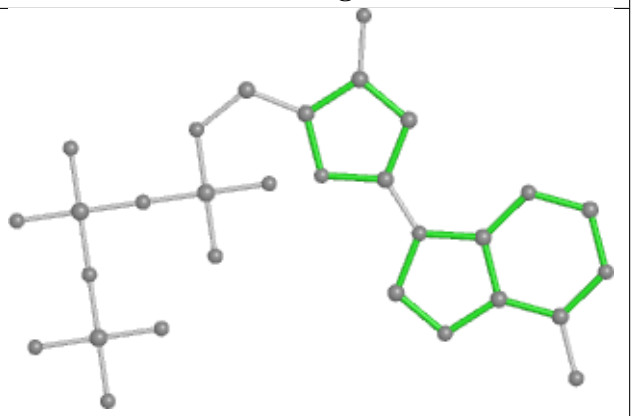

Rings

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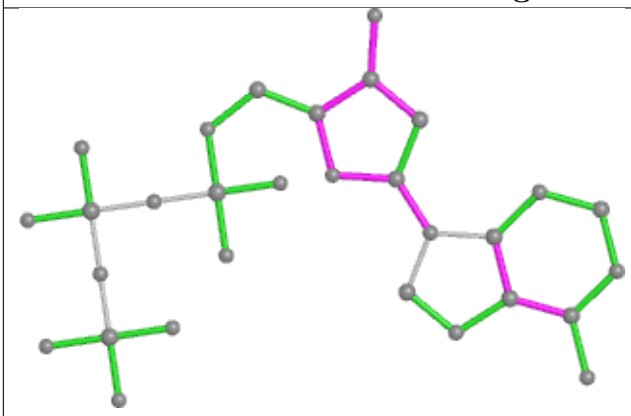

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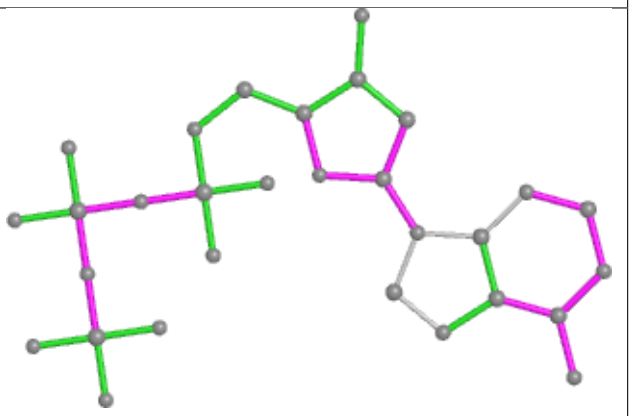
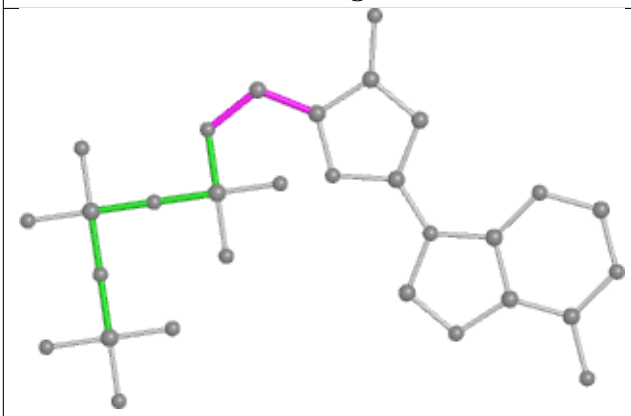


Bond angles



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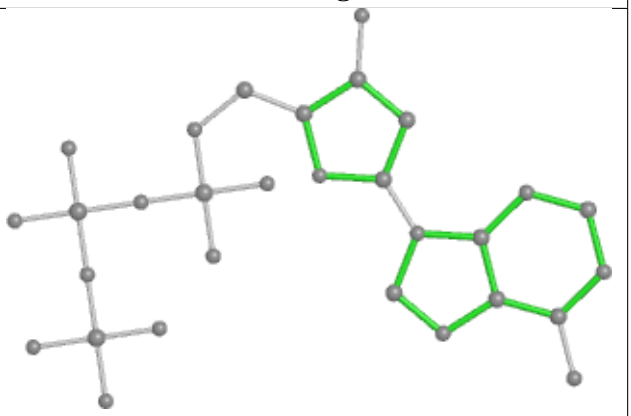
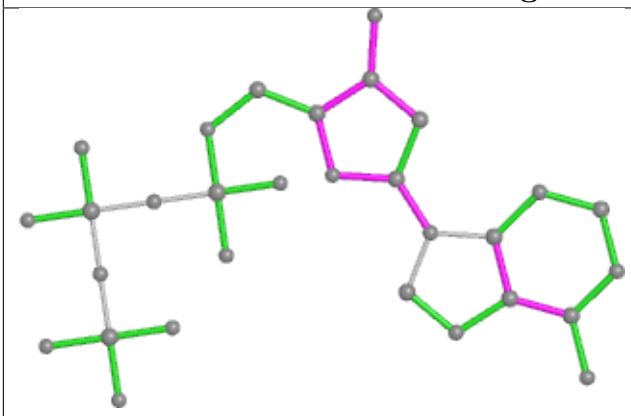


Rings

Ligand DTP I 1501



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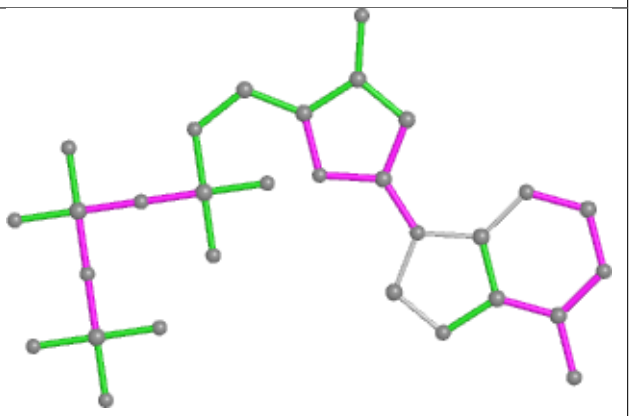

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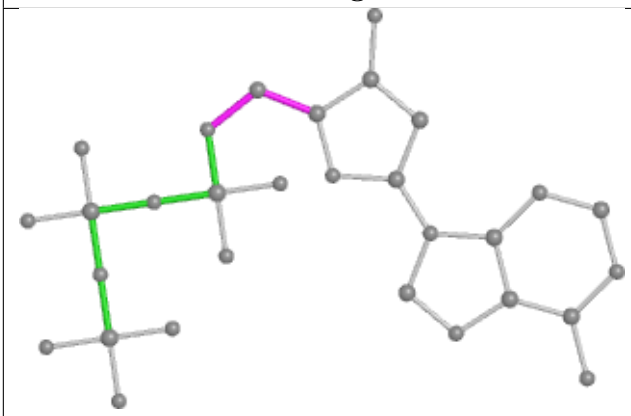

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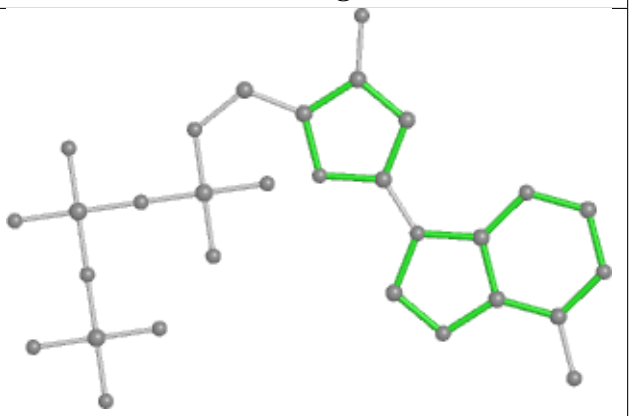
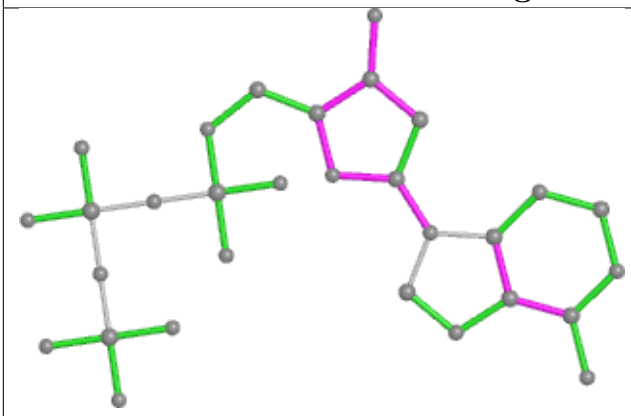


Rings

Ligand DTP C 1501



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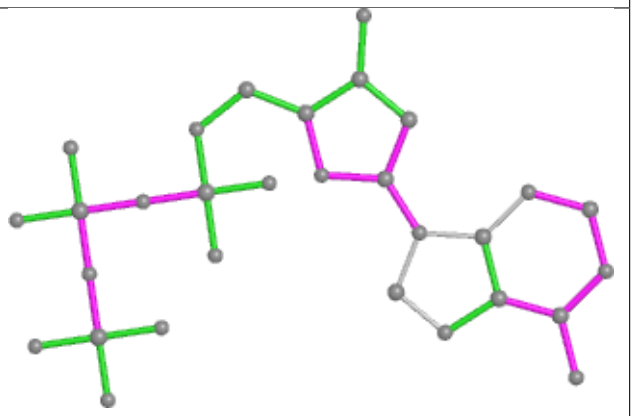

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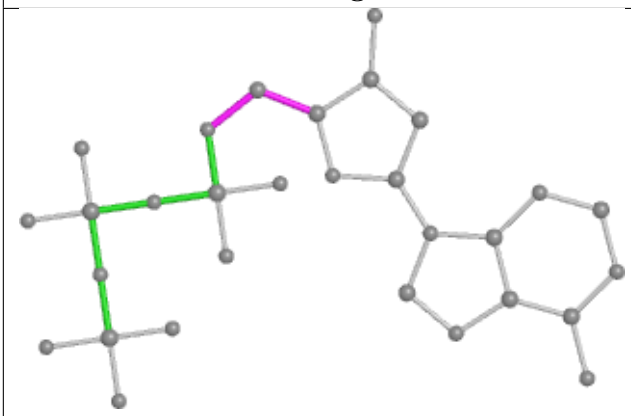

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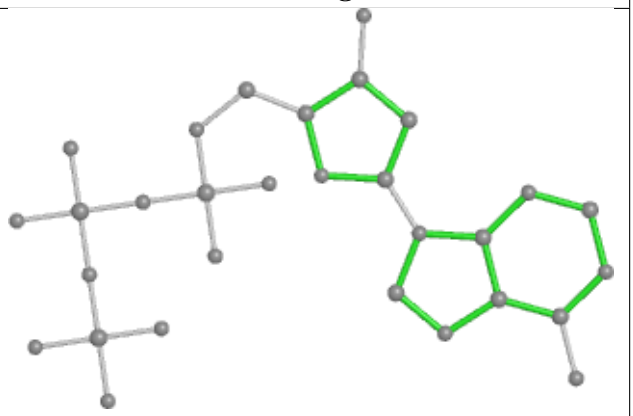
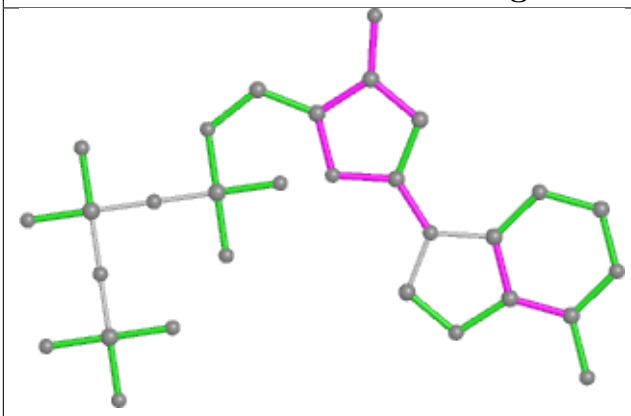
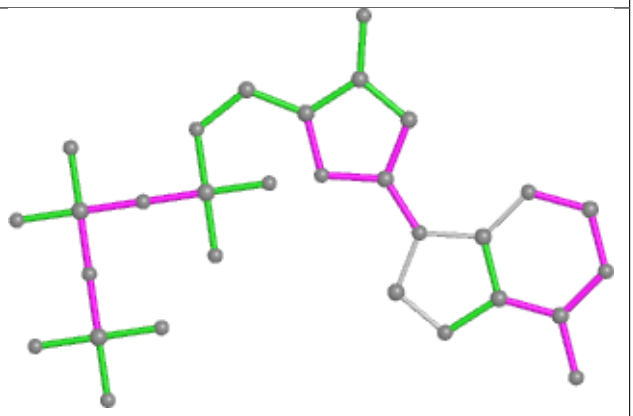


Rings

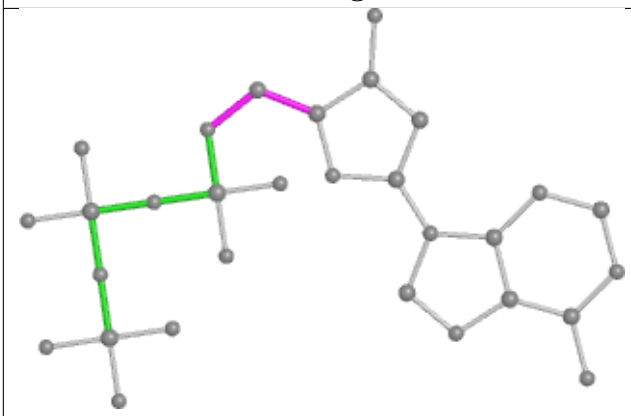
Ligand DTP M 1501



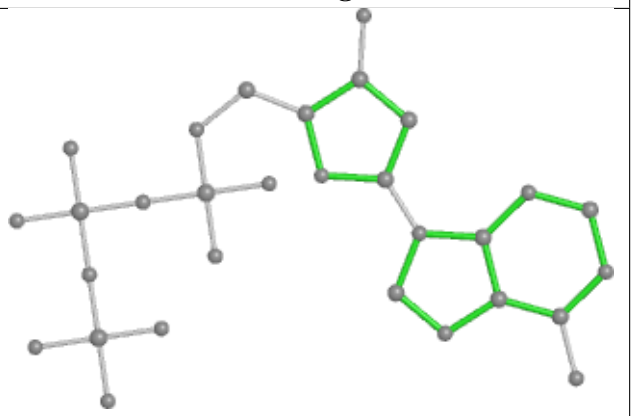
Bond lengths



Bond angles

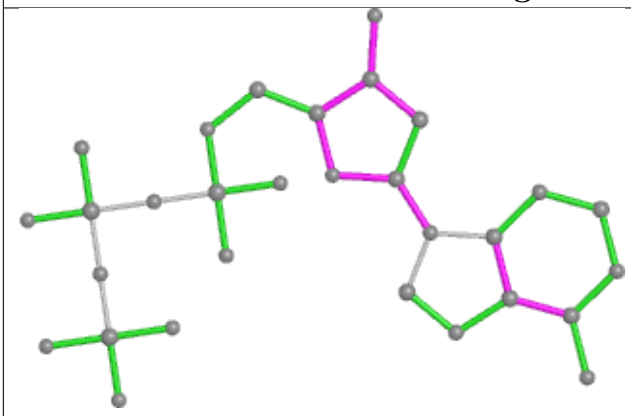


Torsions

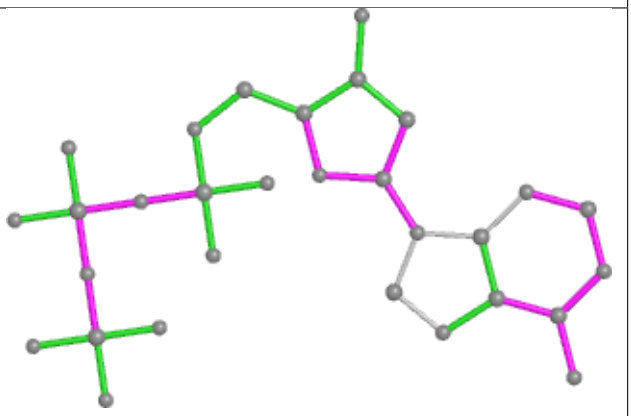


Rings

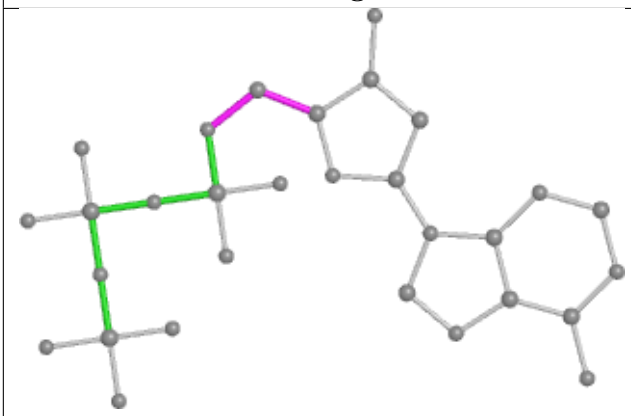
Ligand DTP O 1501



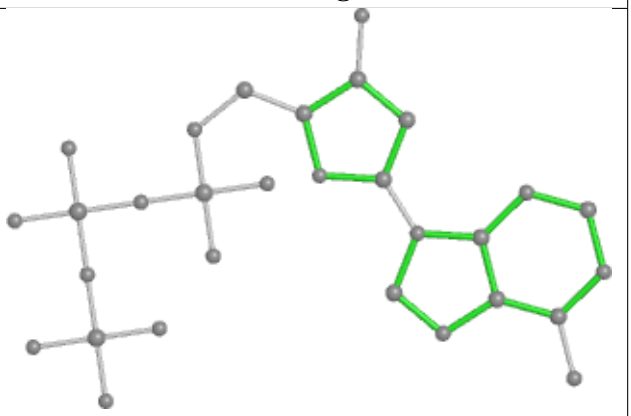
Bond lengths



Bond angles

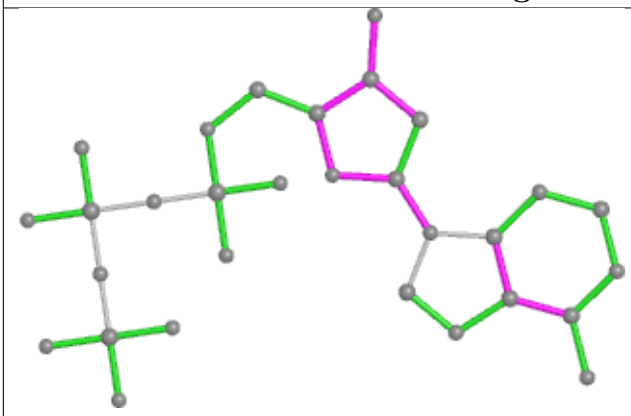


Torsions

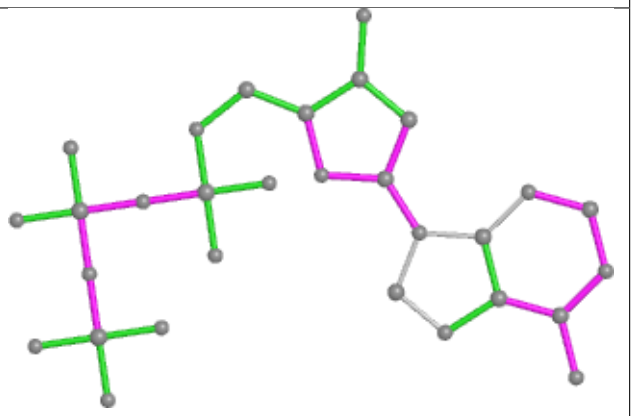


Rings

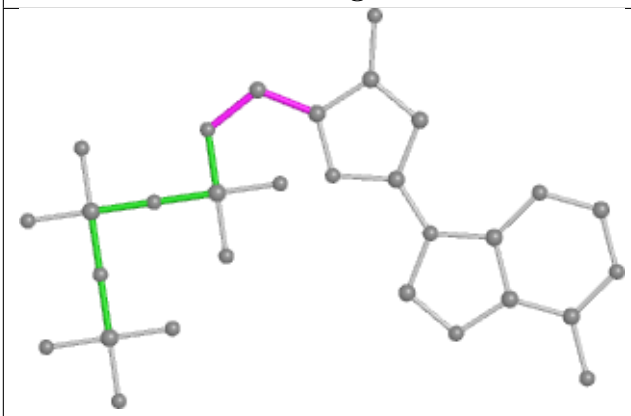
Ligand DTP G 1501



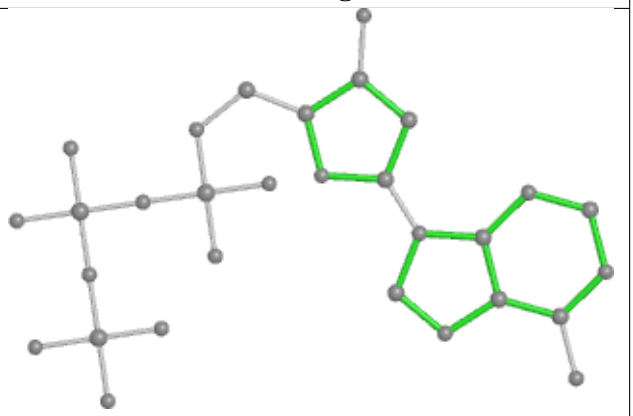
Bond lengths



Bond angles

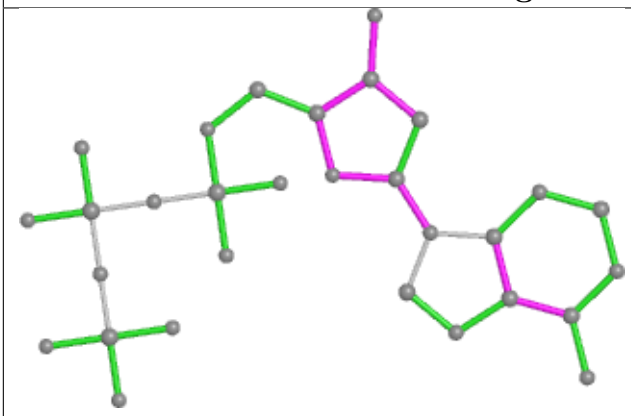


Torsions

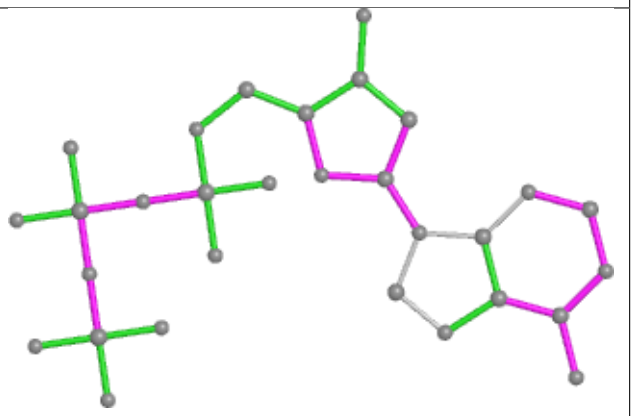


Rings

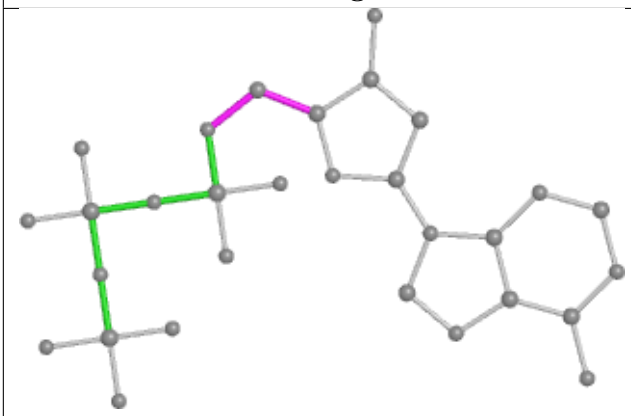
Ligand DTP E 1501



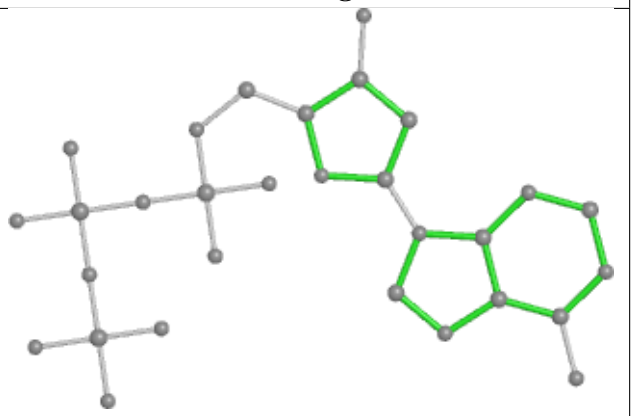
Bond lengths



Bond angles

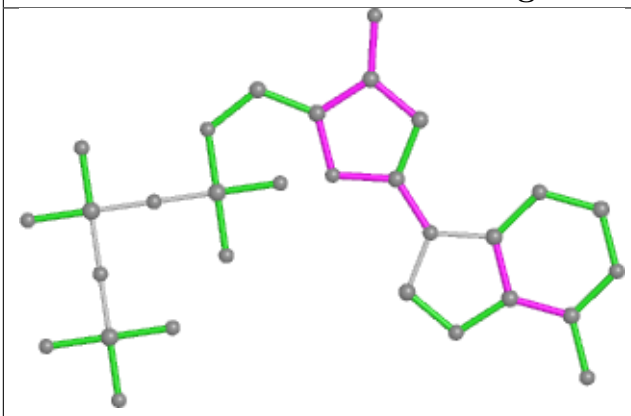


Torsions

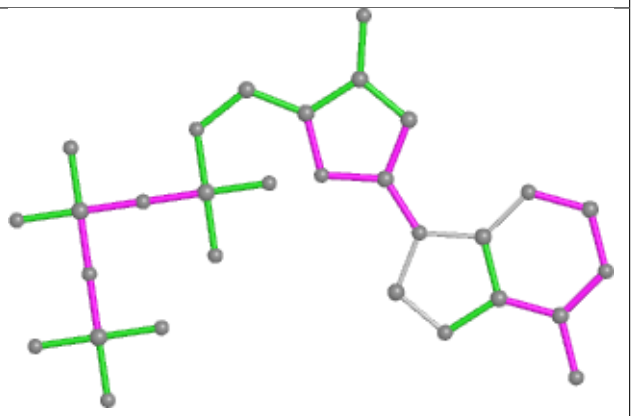


Rings

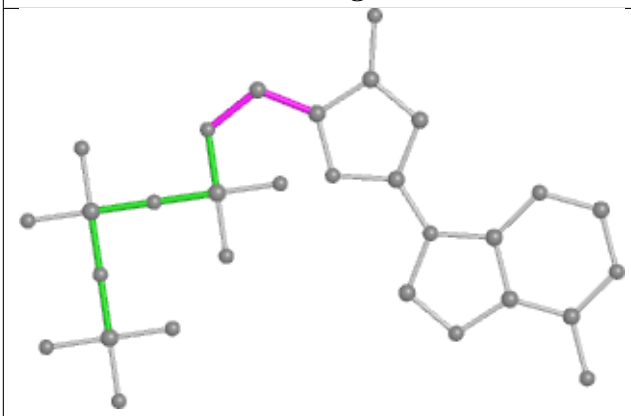
Ligand DTP J 1501



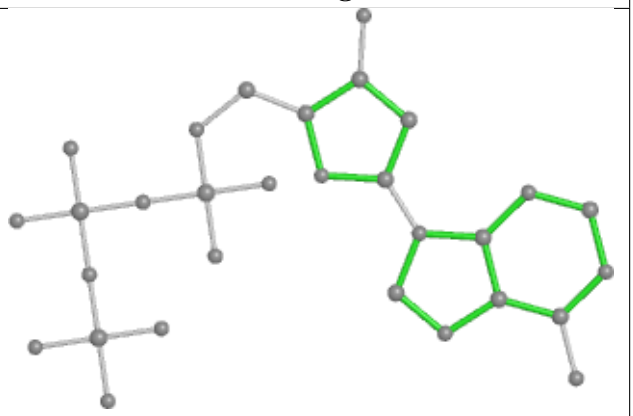
Bond lengths



Bond angles

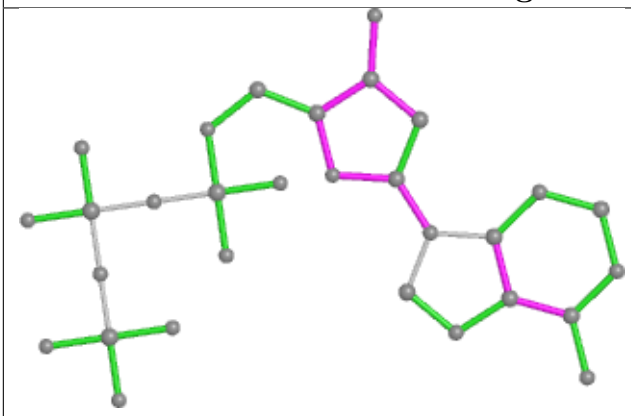


Torsions

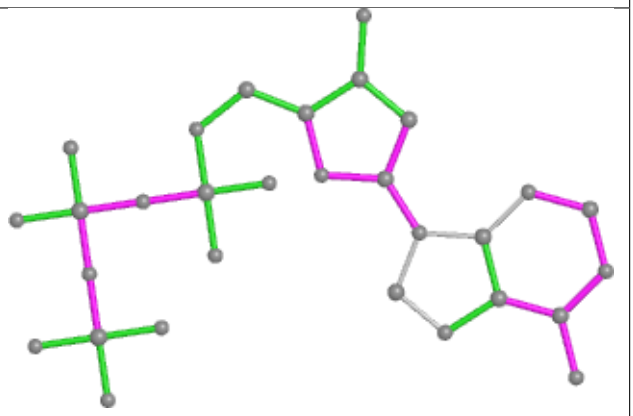


Rings

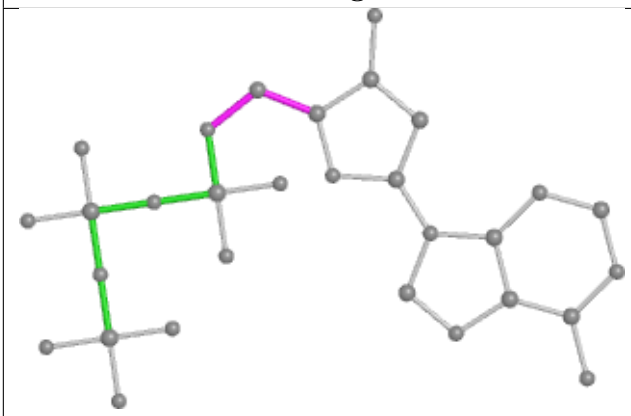
Ligand DTP F 1501



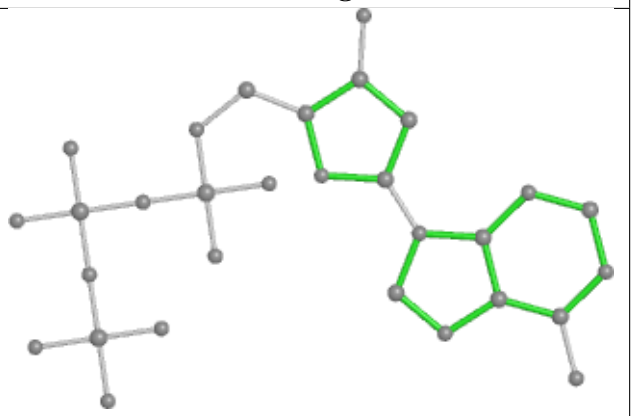
Bond lengths



Bond angles

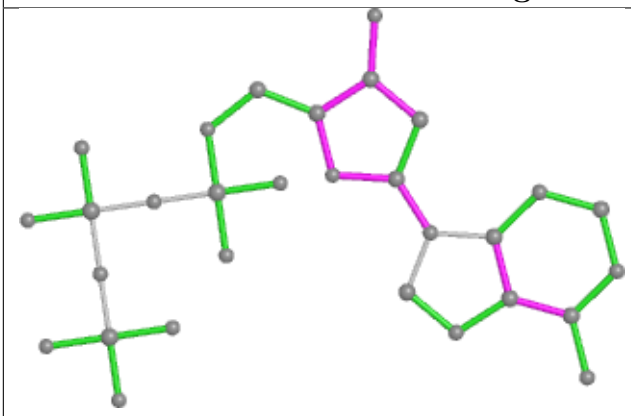


Torsions

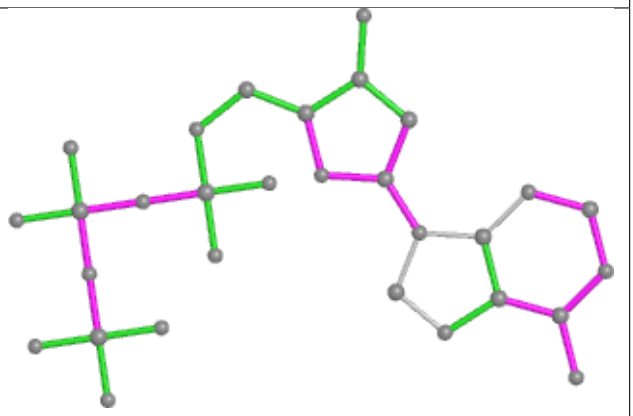


Rings

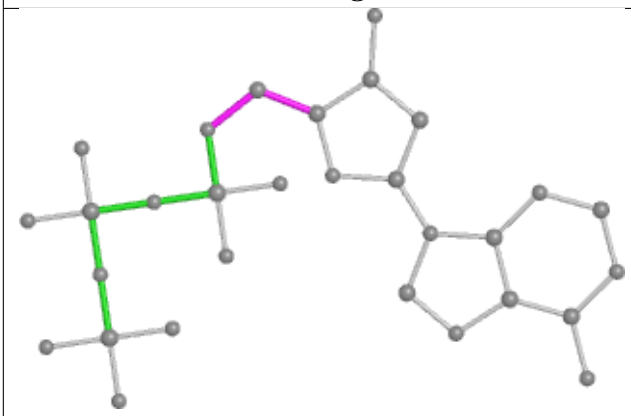
Ligand DTP D 1501



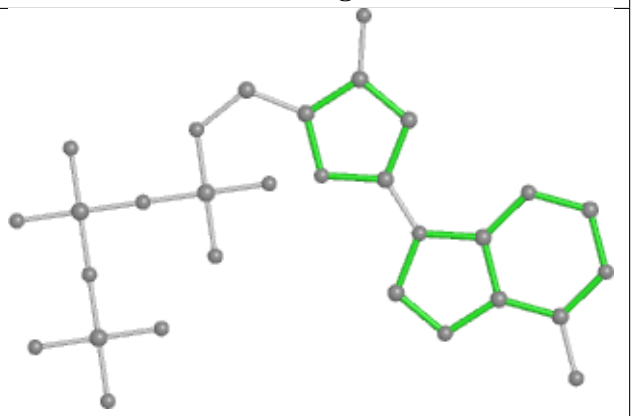
Bond lengths



Bond angles

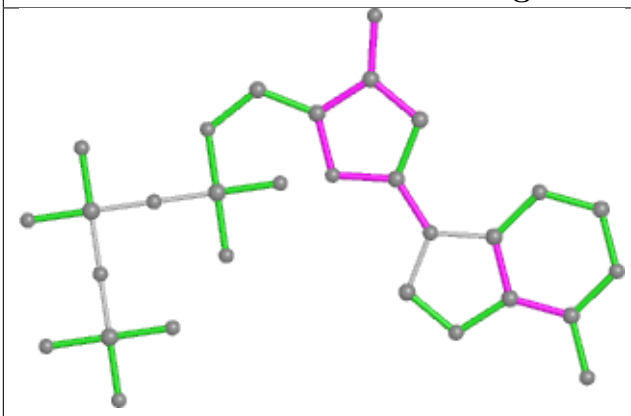


Torsions

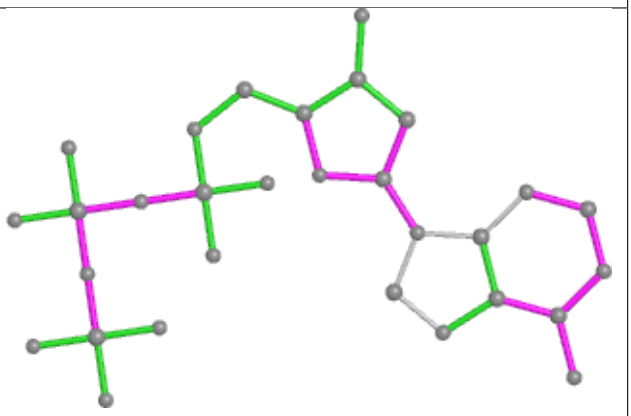


Rings

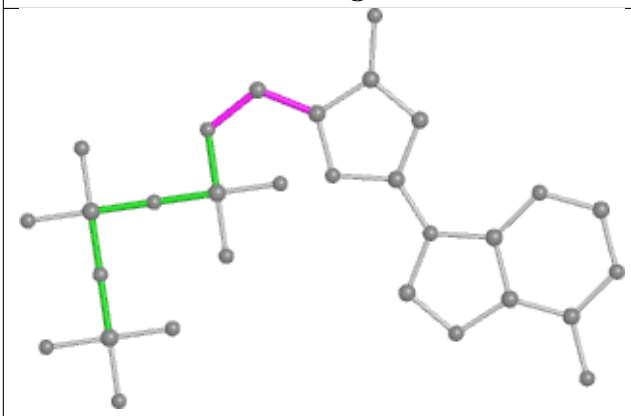
Ligand DTP K 1501



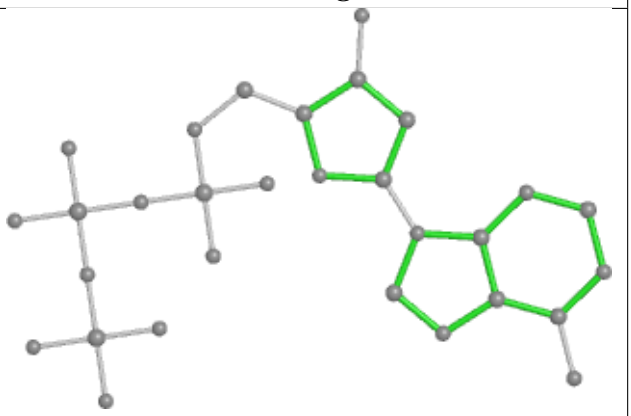
Bond lengths



Bond angles

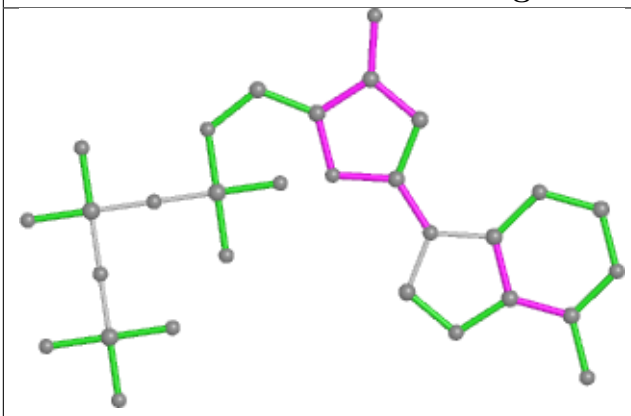


Torsions

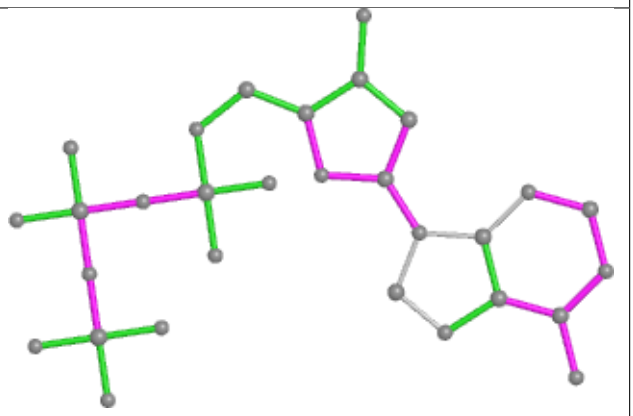


Rings

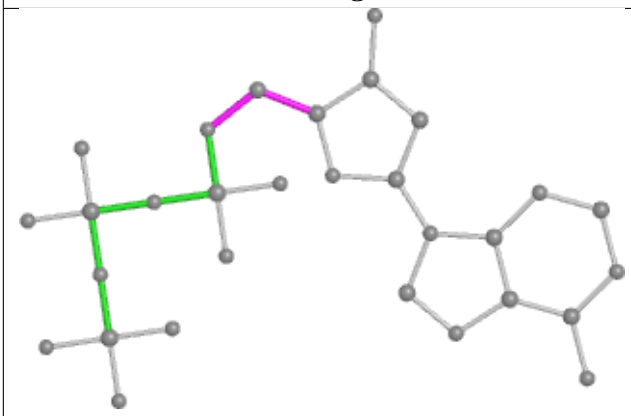
Ligand DTP N 1501



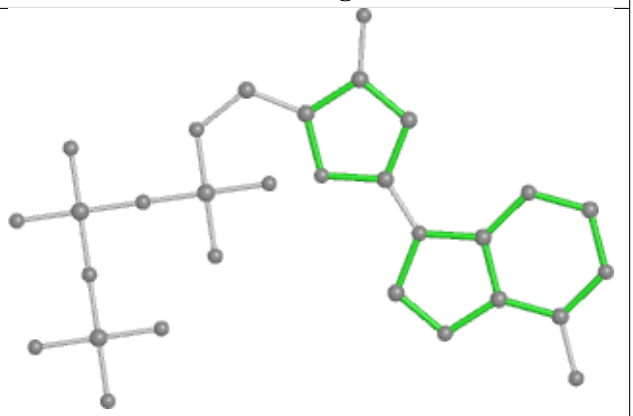
Bond lengths



Bond angles

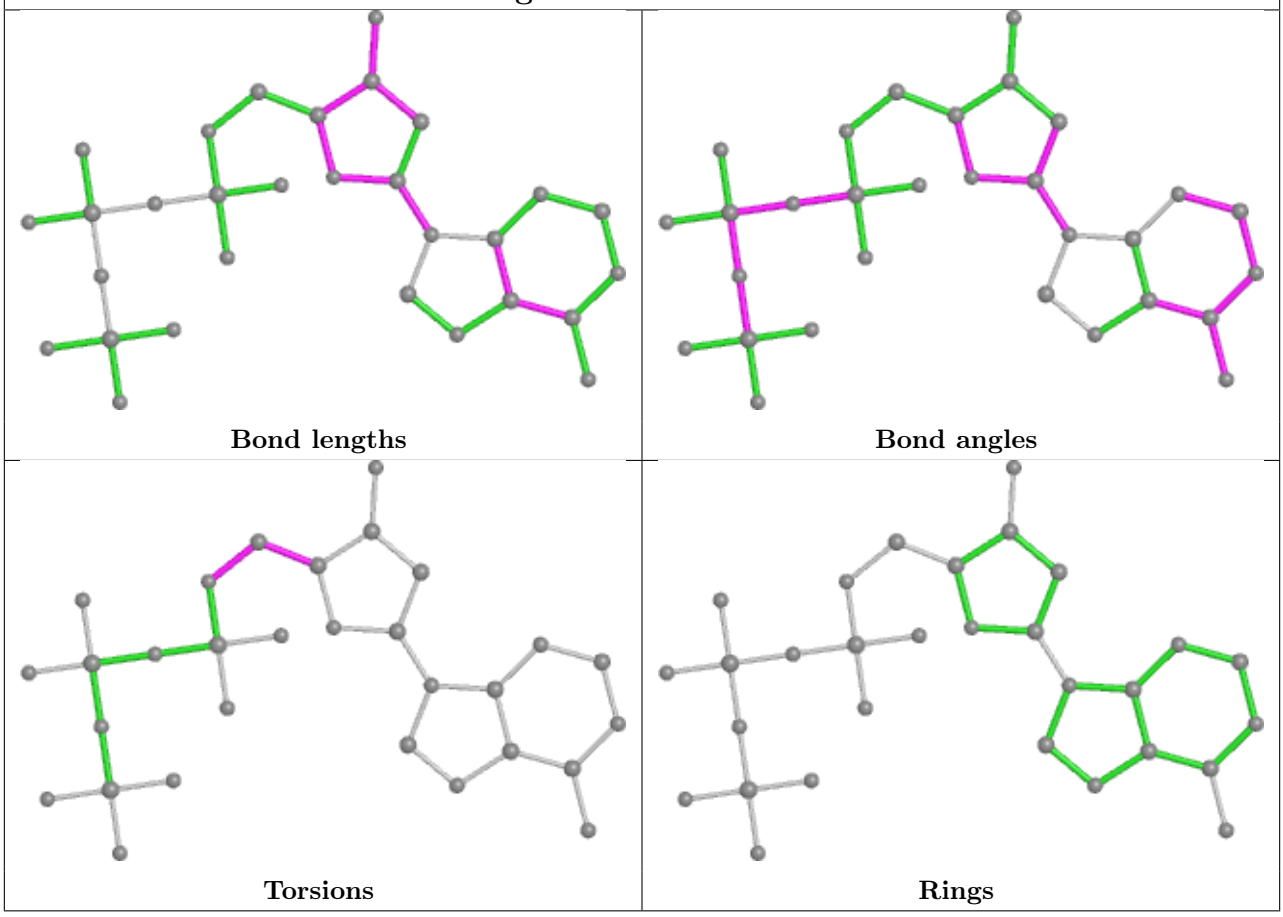


Torsions



Rings

Ligand DTP B 1501



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

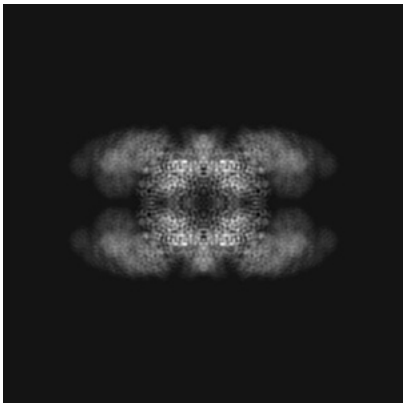
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-8177. These allow visual inspection of the internal detail of the map and identification of artifacts.

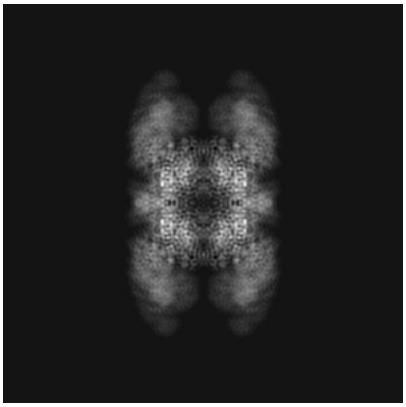
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

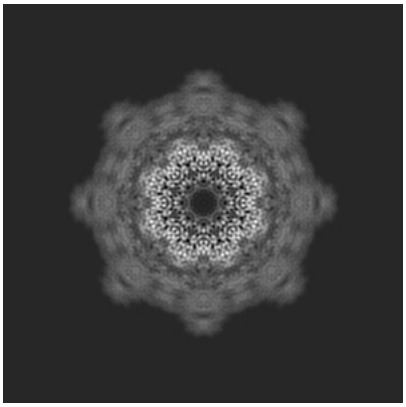
6.1.1 Primary map



X



Y

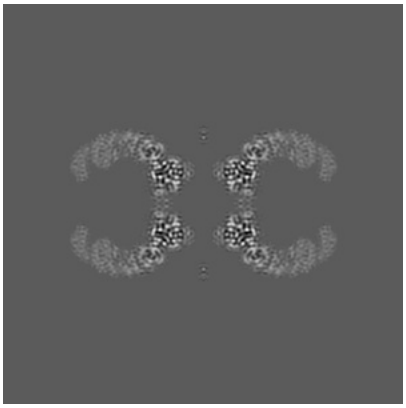


Z

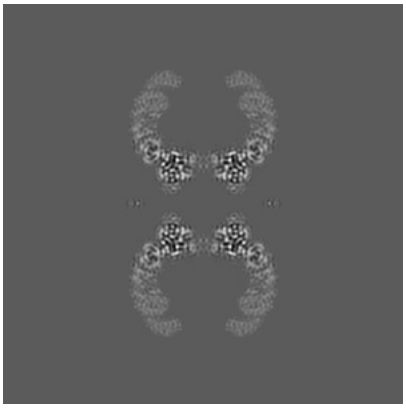
The images above show the map projected in three orthogonal directions.

6.2 Central slices

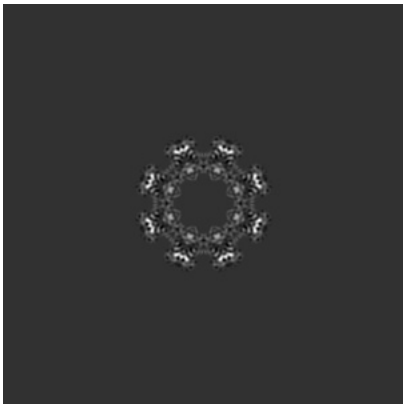
6.2.1 Primary map



X Index: 160



Y Index: 160



Z Index: 160

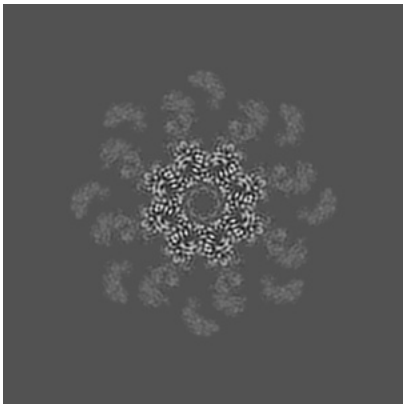
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 143

Y Index: 143

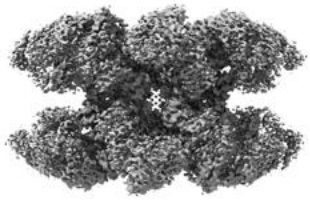


Z Index: 185

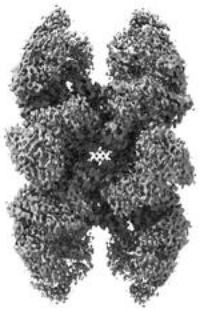
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

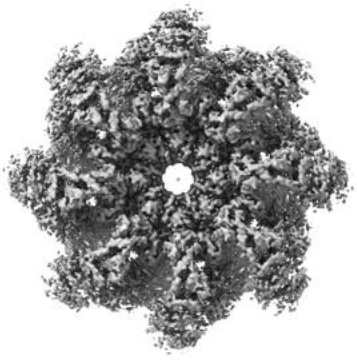
6.4.1 Primary map



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

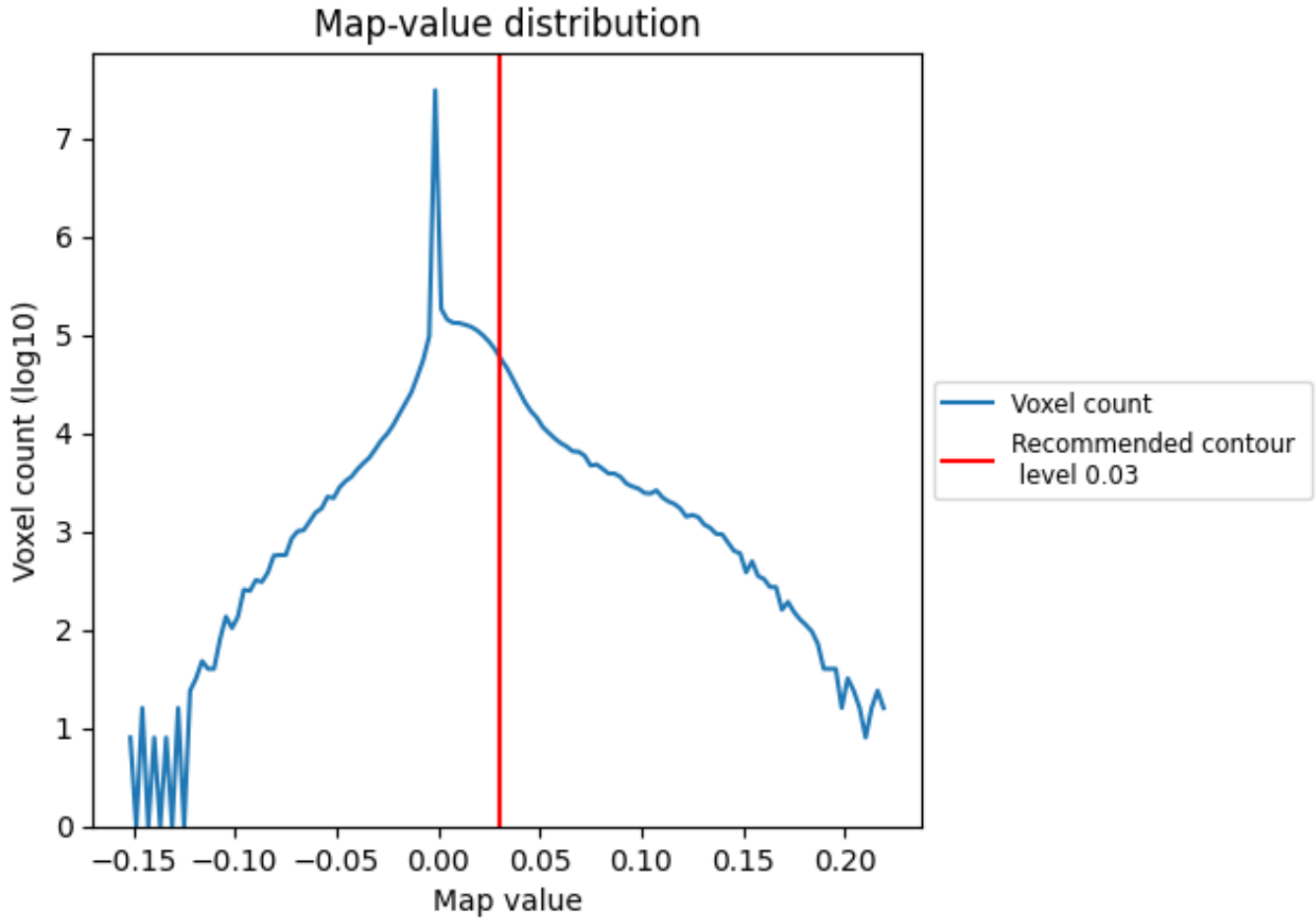
6.5 Mask visualisation (i)

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

7 Map analysis

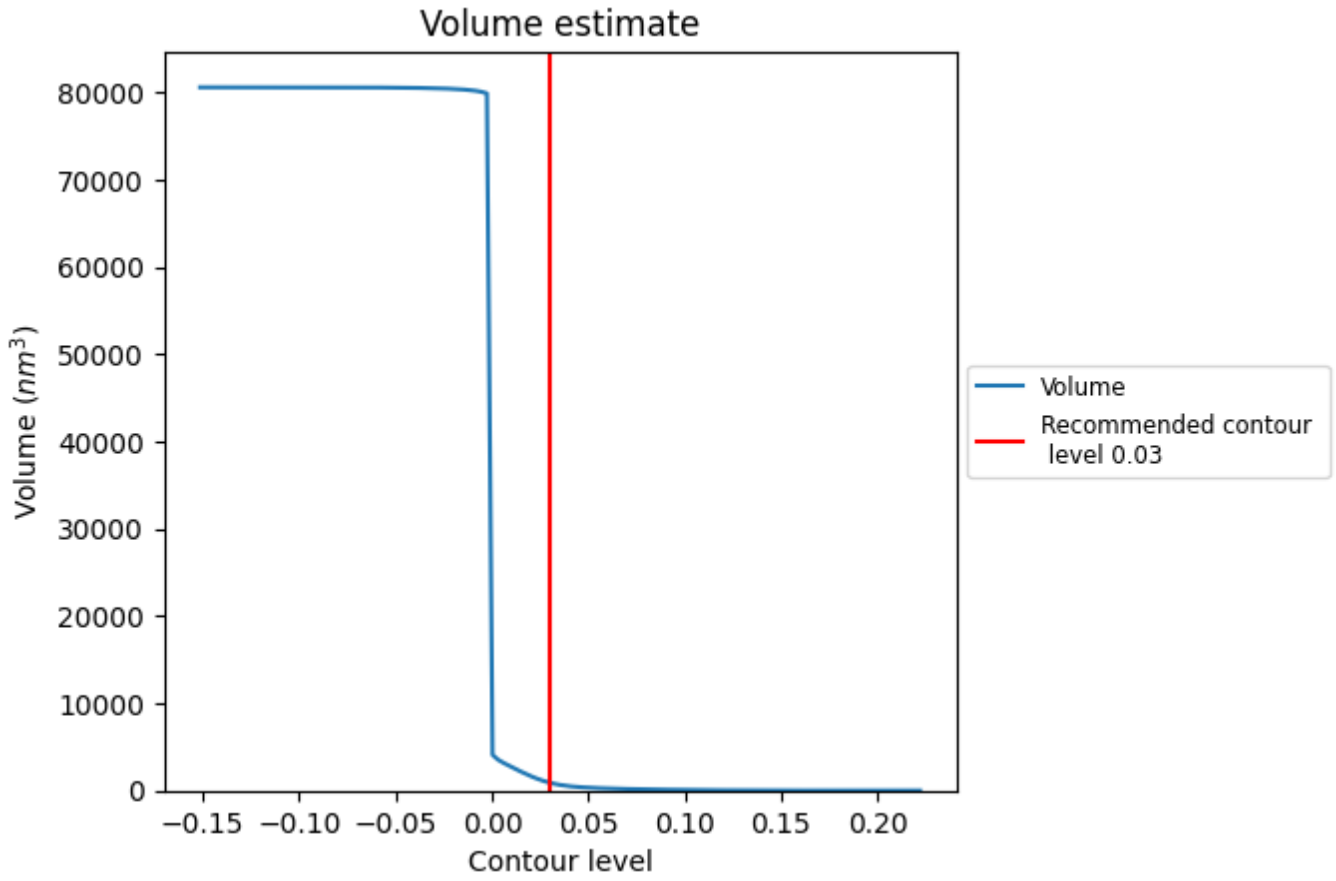
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

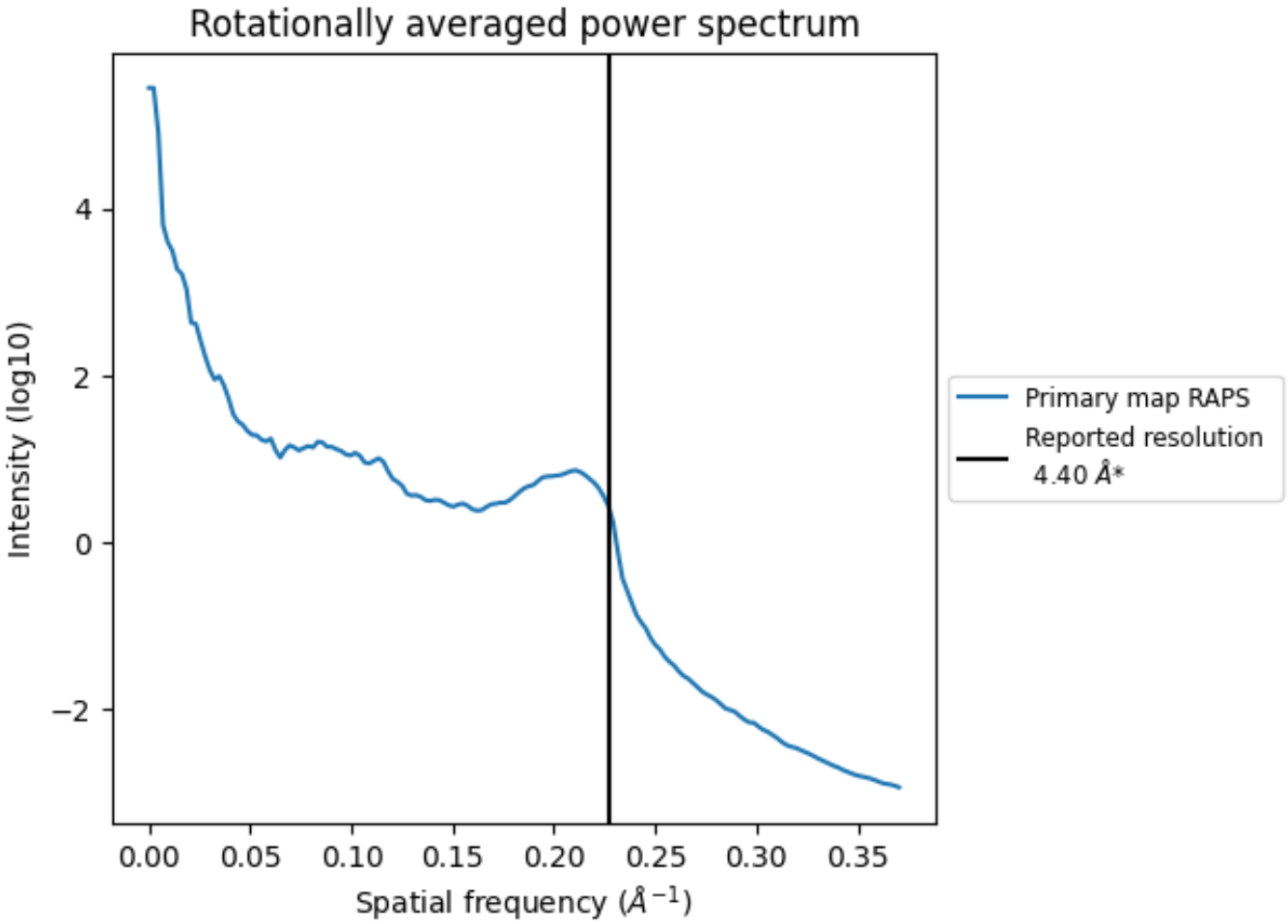
7.2 Volume estimate



The volume at the recommended contour level is 904 nm^3; this corresponds to an approximate mass of 817 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.227 Å^{-1}

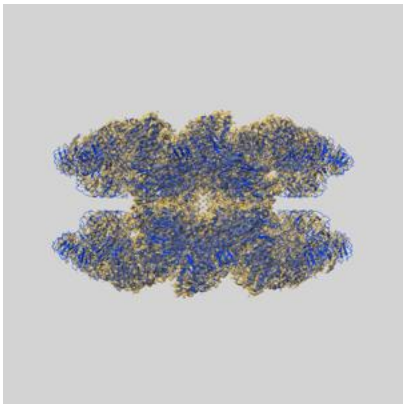
8 Fourier-Shell correlation

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

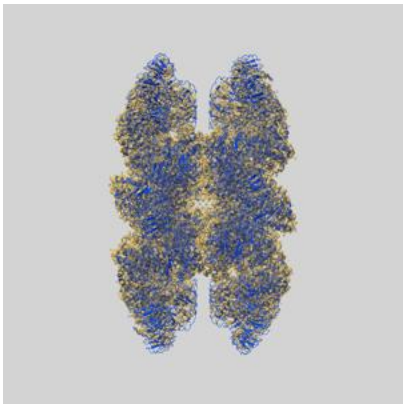
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-8177 and PDB model 5JUL. Per-residue inclusion information can be found in section 3 on page 7.

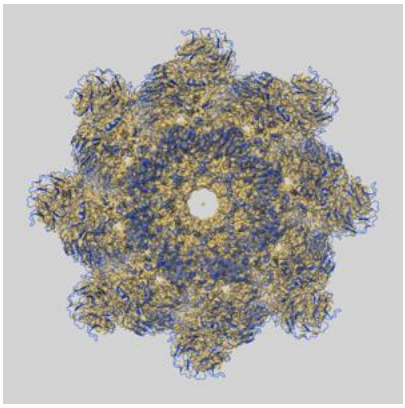
9.1 Map-model overlay



X



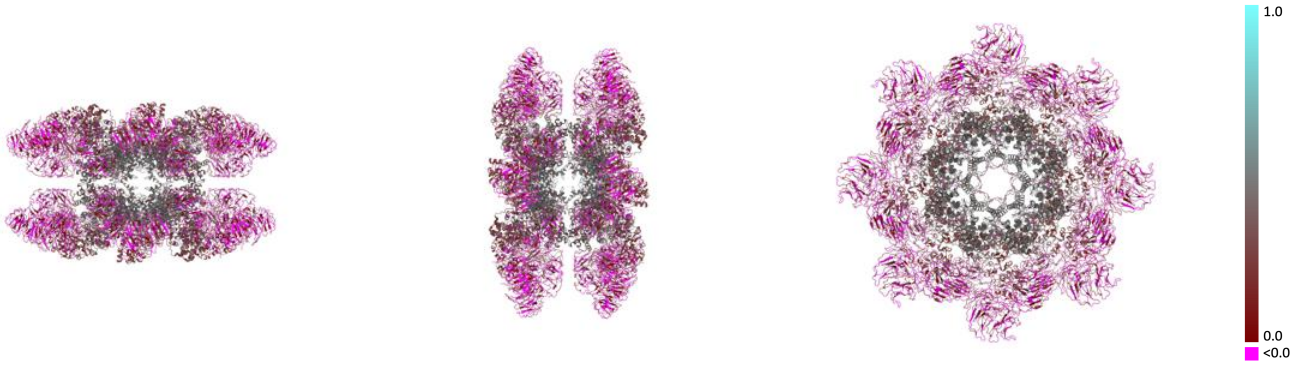
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.03 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

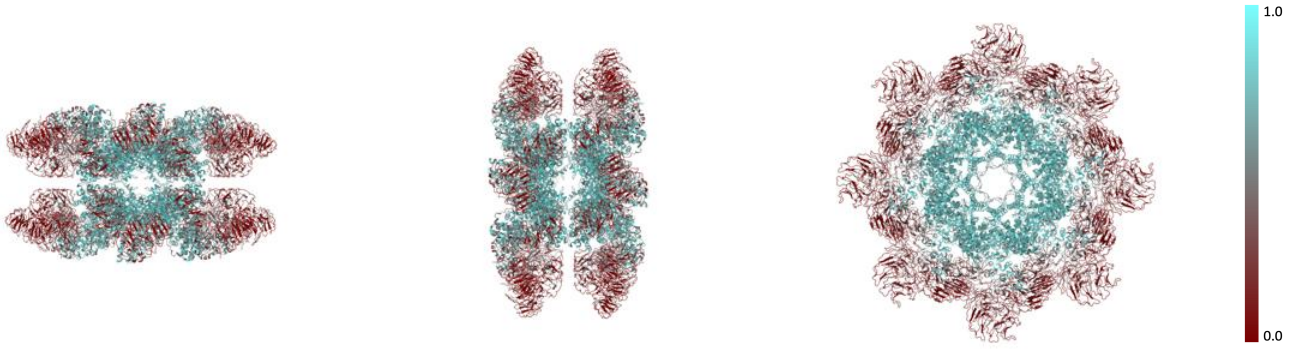
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

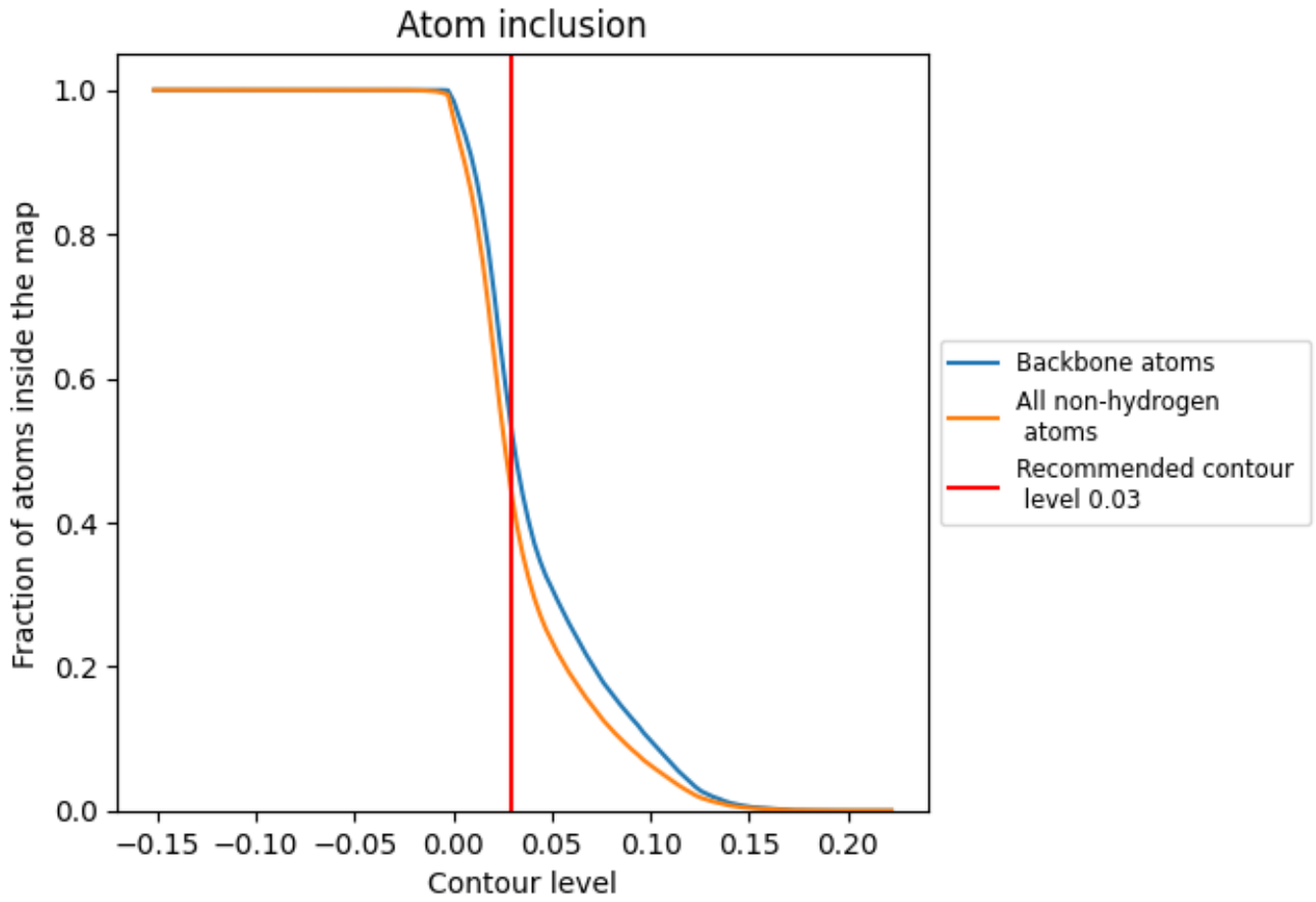
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.03).

9.4 Atom inclusion (i)



At the recommended contour level, 52% of all backbone atoms, 43% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.03) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.4340	0.1940
A	0.4360	0.1950
B	0.4303	0.1890
C	0.4314	0.1900
D	0.4335	0.1960
E	0.4366	0.1950
F	0.4284	0.1900
G	0.4361	0.1940
H	0.4358	0.1950
I	0.4354	0.1950
J	0.4370	0.1950
K	0.4338	0.1960
L	0.4285	0.1880
M	0.4355	0.1950
N	0.4371	0.1950
O	0.4353	0.1950
P	0.4334	0.1960