Full wwPDB EM Validation Report ⓘ

Nov 29, 2022 – 12:12 AM JST

PDB ID	:	7VCI
EMDB ID	:	EMD-31891
Title	:	Structure of Xenopus laevis NPC nuclear ring asymmetric unit
Authors	:	Tai, L.; Zhu, Y.; Sun, F.
Deposited on	:	2021-09-03
Resolution	:	8.10 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:

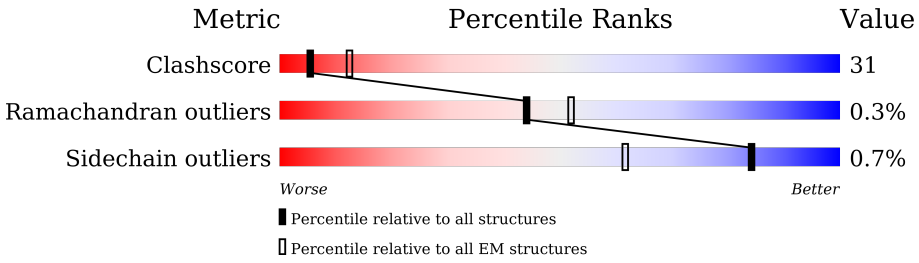
EMDB validation analysis	:	0.0.1.dev43
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

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 8.10 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	653	44% 55%
1	J	653	46% 53%
2	B	375	14% 36% 62%
2	K	375	11% 46% 53%
3	C	360	33% 59% 8%
3	L	360	33% 56% 10%
4	D	1439	13% 58% 38%
4	M	1439	10% 49% 47%

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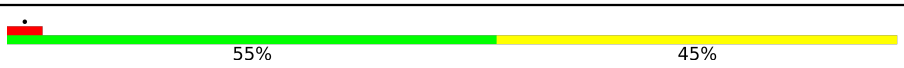
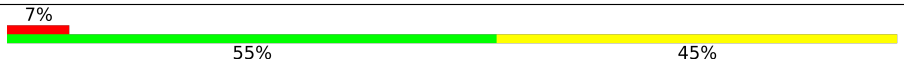
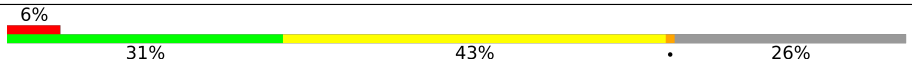
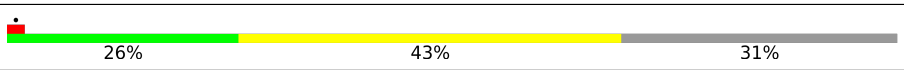
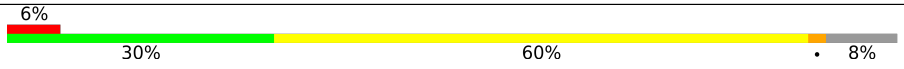
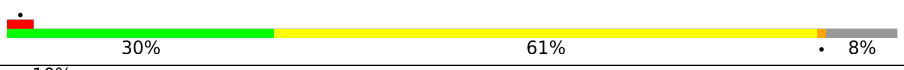
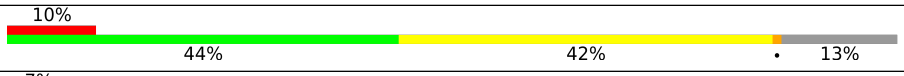
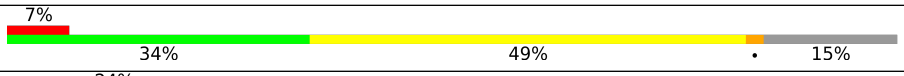
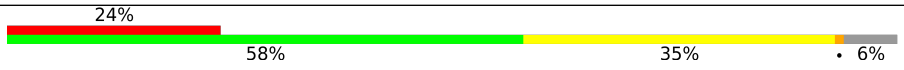
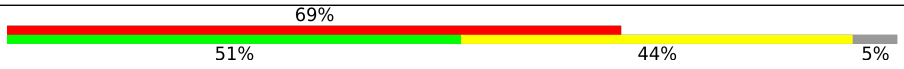
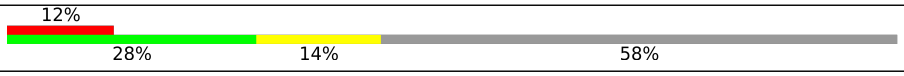
Mol	Chain	Length	Quality of chain
5	E	326	
5	N	326	
6	F	924	
6	O	924	
7	G	320	
7	P	320	
8	H	916	
8	Q	916	
9	I	1140	
9	R	1140	
10	S	2011	
11	T	2408	
12	U	820	

2 Entry composition

There are 12 unique types of molecules in this entry. The entry contains 124700 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 Nuclear pore complex protein Nup85.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	653	Total	C	N	O	S	0	0
			5268	3341	904	984	39		
1	J	653	Total	C	N	O	S	0	0
			5268	3341	904	984	39		

- Molecule 2 is a protein called MGC154553 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	375	Total	C	N	O	S	0	0
			2927	1813	524	571	19		
2	K	375	Total	C	N	O	S	0	0
			2927	1813	524	571	19		

- Molecule 3 is a protein called Nucleoporin SEH1-A.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	333	Total	C	N	O	S	0	0
			2607	1632	466	491	18		
3	L	325	Total	C	N	O	S	0	0
			2546	1592	455	482	17		

- Molecule 4 is a protein called Nup160.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	D	1394	Total	C	N	O	S	0	0
			11118	7052	1912	2086	68		
4	M	1394	Total	C	N	O	S	0	0
			11118	7052	1912	2086	68		

- Molecule 5 is a protein called MGC83926 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	E	326	Total	C	N	O	S	0	0
			2573	1640	443	473	17		
5	N	326	Total	C	N	O	S	0	0
			2573	1640	443	473	17		

- Molecule 6 is a protein called Nuclear pore complex protein Nup96.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	F	687	Total	C	N	O	S	0	0
			5560	3525	979	1024	32		
6	O	637	Total	C	N	O	S	0	0
			5168	3282	911	946	29		

- Molecule 7 is a protein called GATOR complex protein SEC13.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	G	294	Total	C	N	O	S	0	0
			2300	1454	394	440	12		
7	P	294	Total	C	N	O	S	0	0
			2300	1454	394	440	12		

- Molecule 8 is a protein called Nuclear pore complex protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	H	798	Total	C	N	O	S	0	0
			6494	4126	1096	1240	32		
8	Q	780	Total	C	N	O	S	0	0
			6351	4034	1076	1210	31		

- Molecule 9 is a protein called outer Nup133.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	I	1076	Total	C	N	O	S	0	0
			8482	5362	1409	1661	50		
9	R	1082	Total	C	N	O	S	0	0
			8536	5397	1420	1669	50		

- Molecule 10 is a protein called MGC83295 protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	S	2011	Total	C	N	O	S	0	0
			15974	10112	2785	2978	99		

- Molecule 11 is a protein called Protein ELYS.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	T	1013	Total	C	N	O	S	0	0
			8041	5095	1388	1518	40		

- Molecule 12 is a protein called Nuclear pore complex protein Nup93.

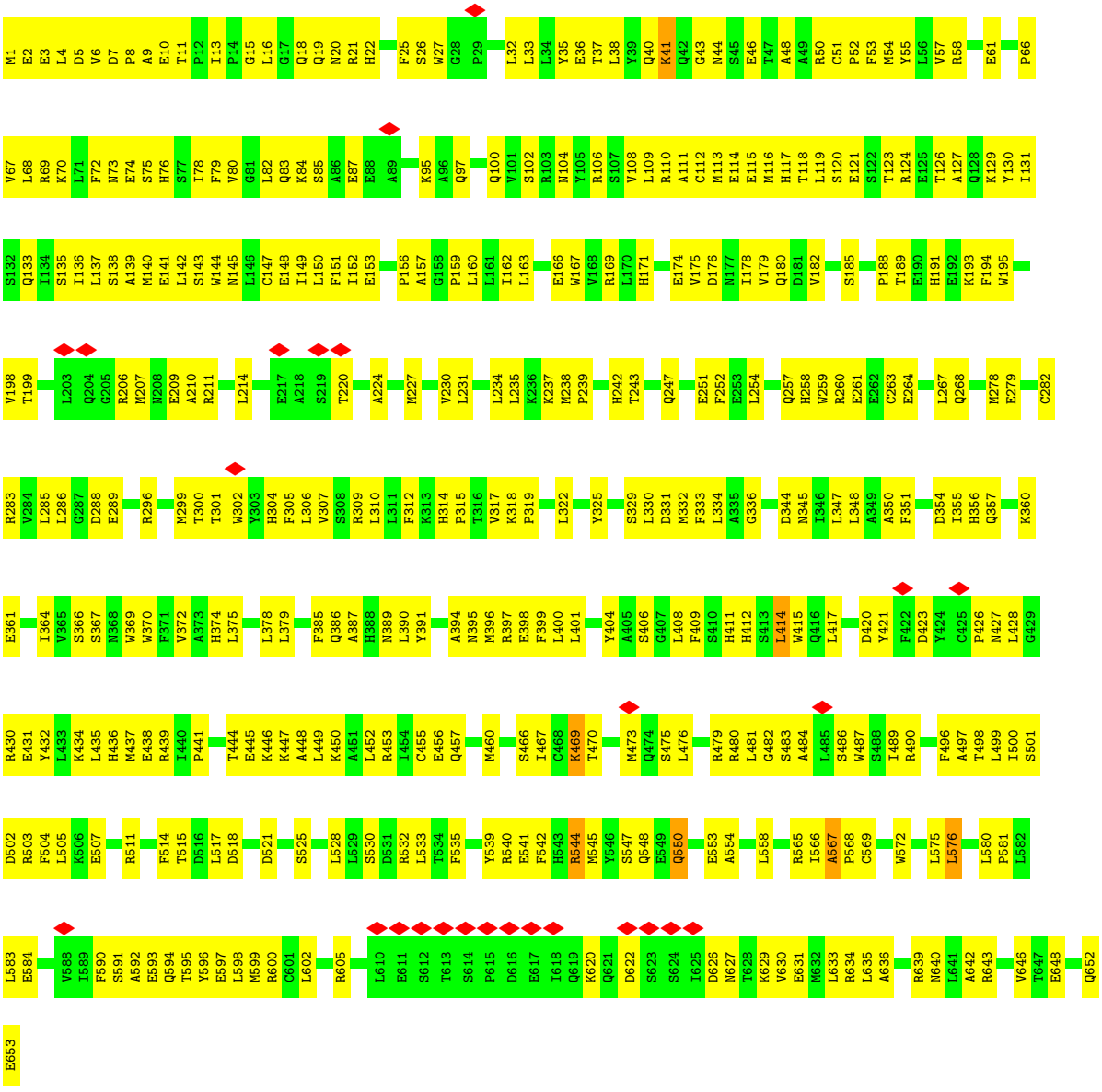
Mol	Chain	Residues	Atoms					AltConf	Trace
12	U	820	Total	C	N	O	S	0	0
			6569	4132	1146	1259	32		

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.

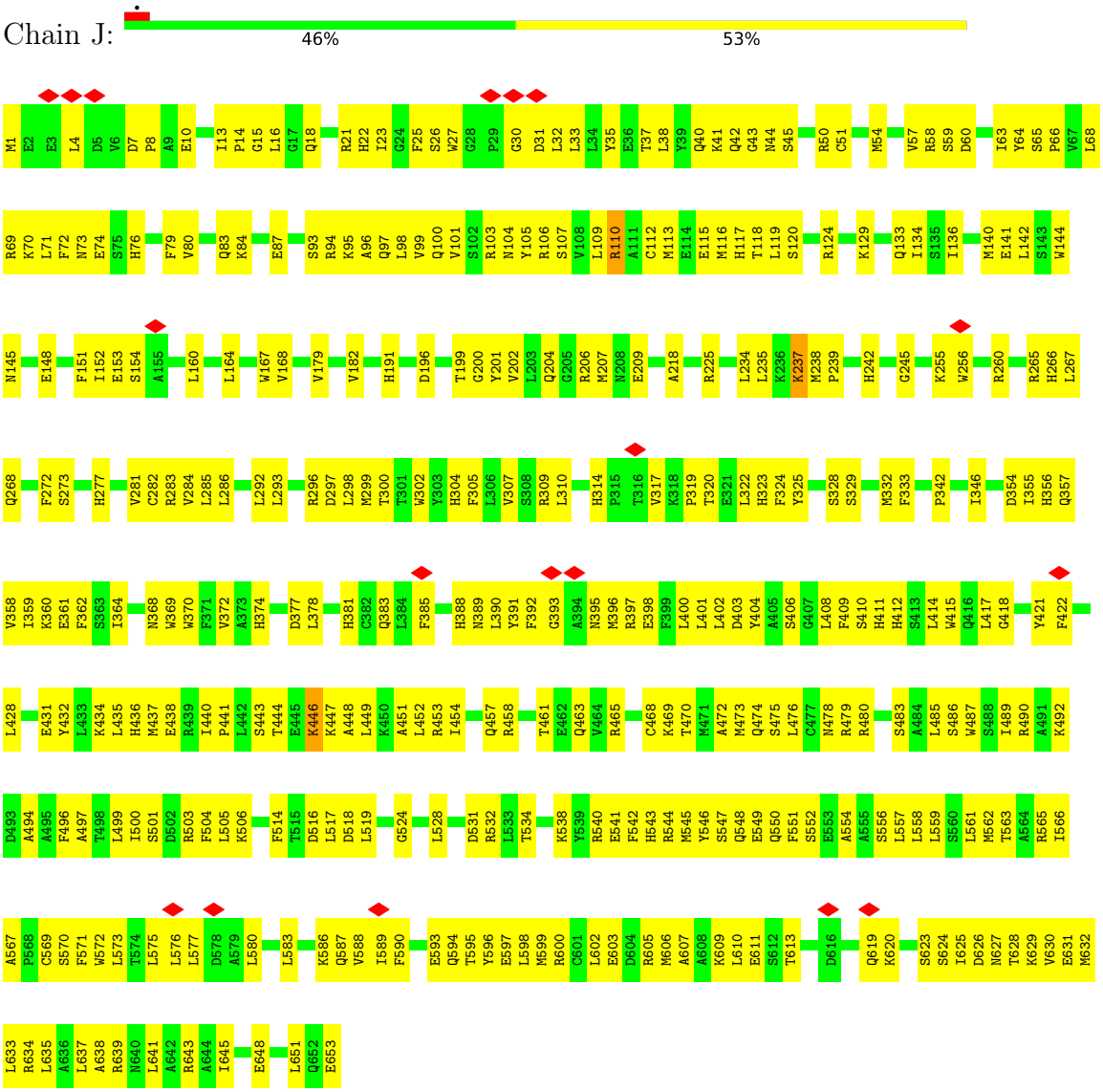
- Molecule 1: Nuclear pore complex protein Nup85

Chain A:



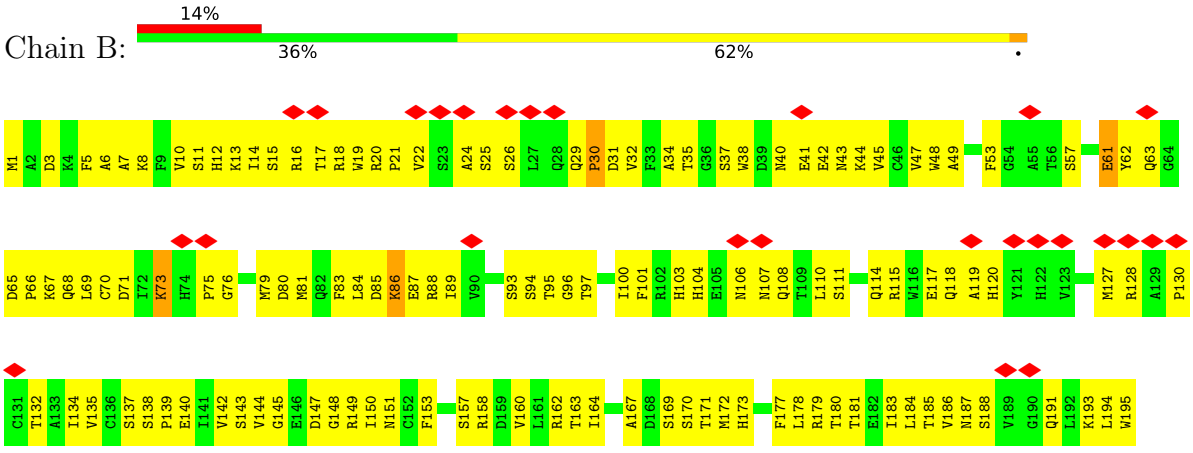
• Molecule 1: Nuclear pore complex protein Nup85

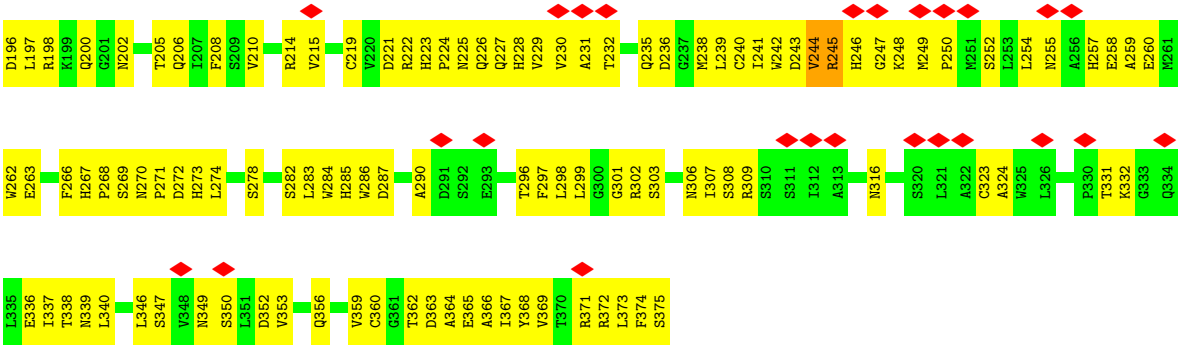
Chain J:



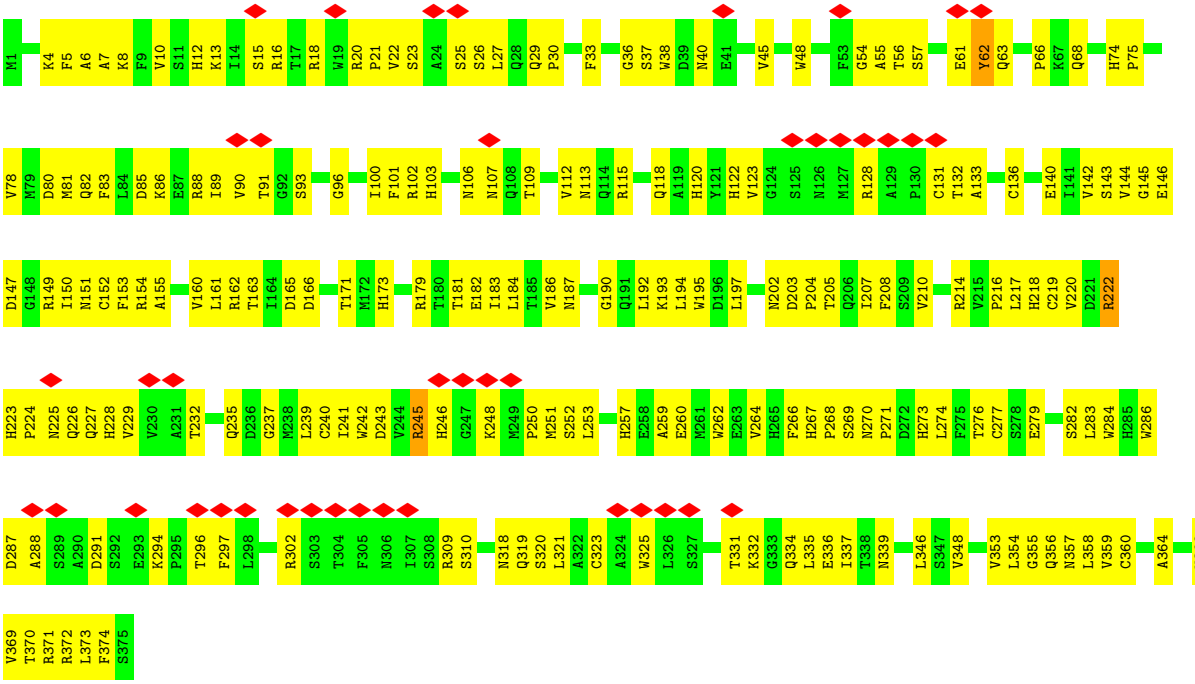
• Molecule 2: MGC154553 protein

Chain B:

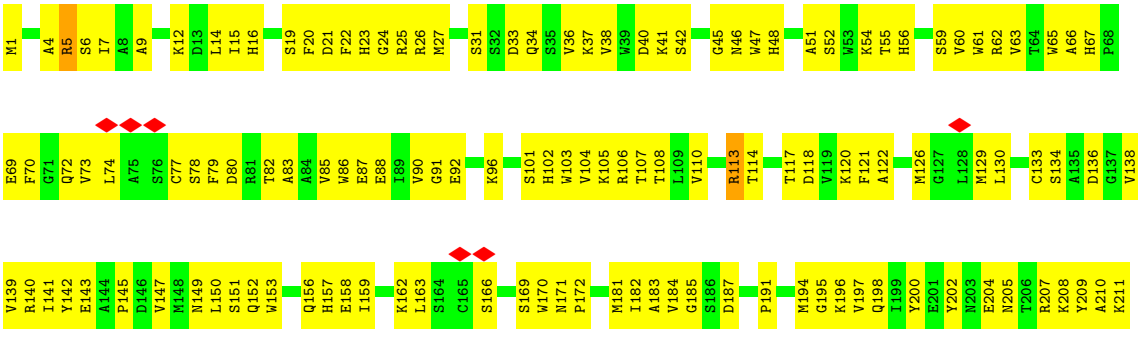




• Molecule 2: MGC154553 protein

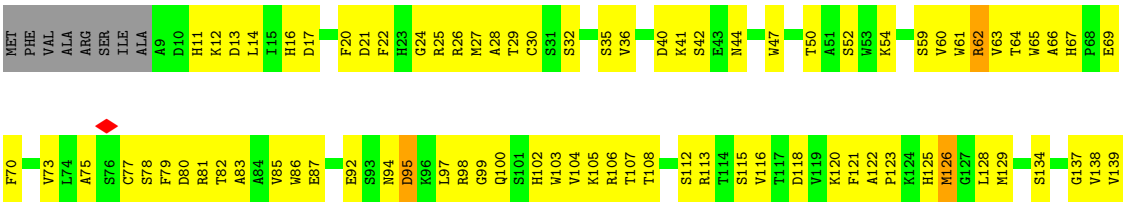


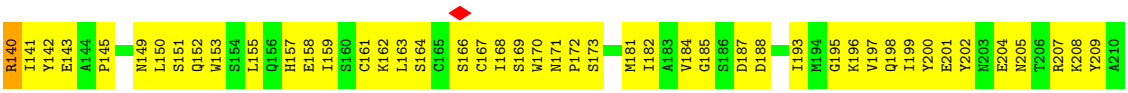
• Molecule 3: Nucleoporin SEH1-A

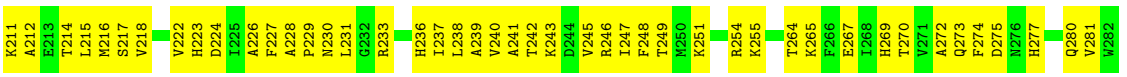


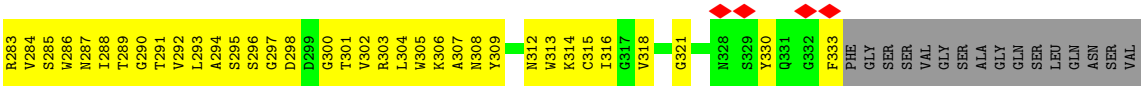
• Molecule 3: Nucleoporin SEH1-A

Chain L:



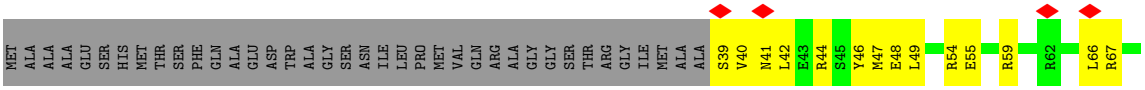


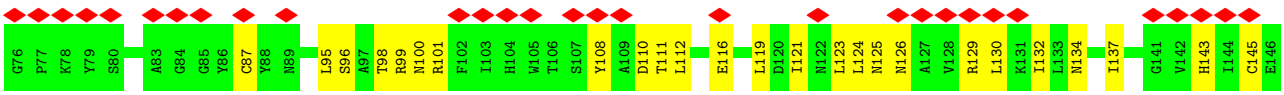


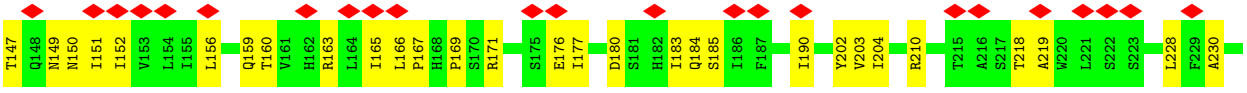


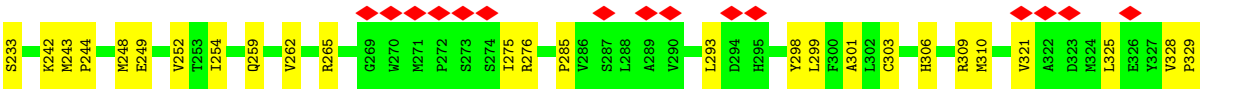
• Molecule 4: Nup160

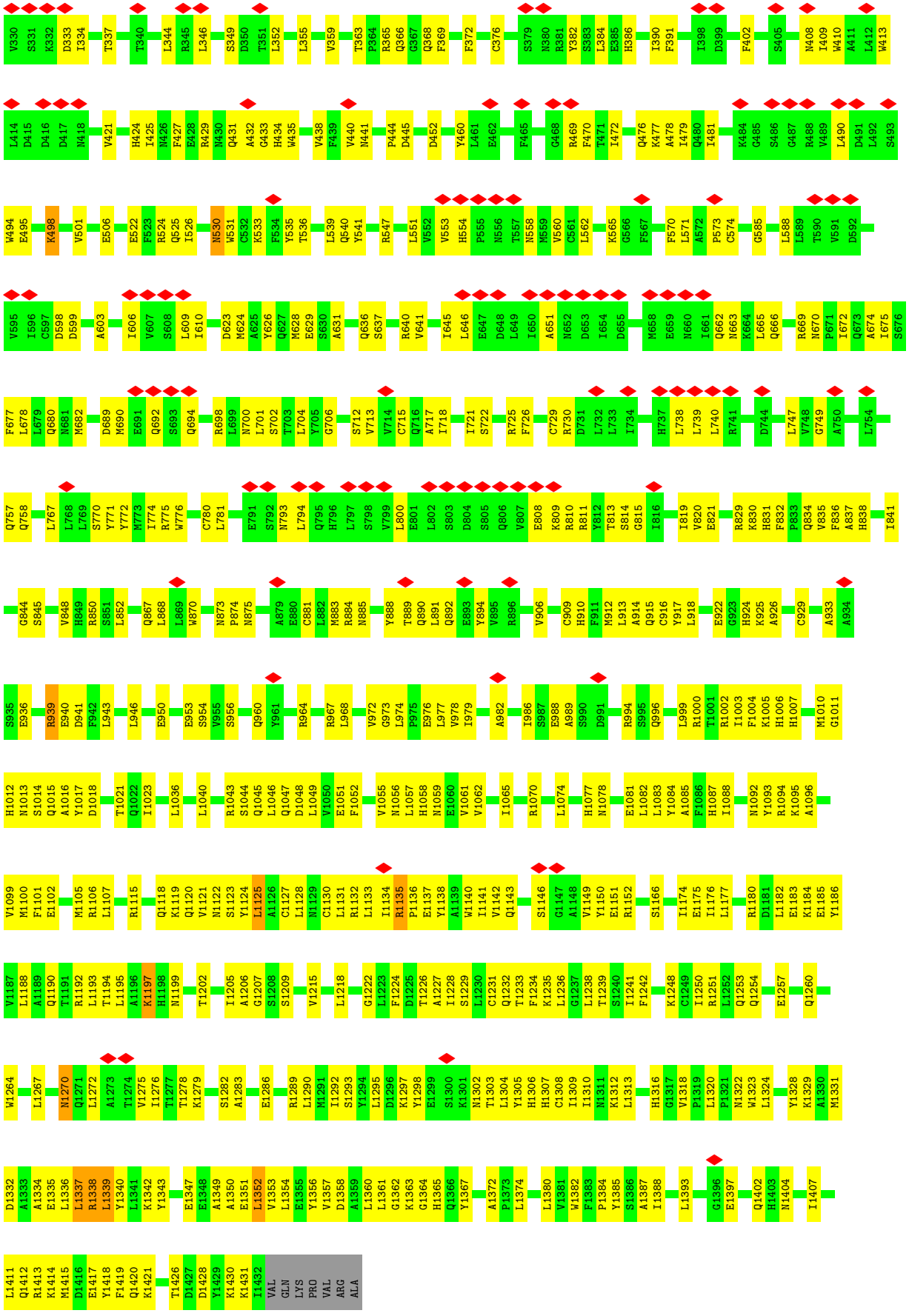
Chain D:







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L414 D415 D416 D417 N418 V421 H424 I425 N426 F427 E428 R429 N430 Q431 A432 G433 H434 W435 V438 F439 V440 N441 P444 D445 D452 Y460 L461 E462 F465 G468 R469 F470 T471 I472 Q476 K477 A478 I479 Q480 I481 K484 G485 S486 G487 R488 V489 L490 D491 L492 S493
W494 E495 K498 V501 E506 E522 P523 R524 Q525 I526 N530 W531 C532 K533 F534 Y535 T536 L539 Q540 Y541 R547 L551 V552 V553 H554 P555 N556 T557 N558 M559 V560 C561 L562 K565 G566 F567 F570 L571 A572 P573 C574 G585 L588 L589 T590 V591 D592
V595 I596 C597 D598 D599 A603 I606 V607 S608 L609 I610 D623 M624 A625 Y626 Q627 M628 E629 S630 A631 Q636 S637 R640 V641 I645 L646 E647 D648 L649 I650 A651 N652 D653 I654 D655 M658 E659 N660 I661 Q662 N663 K664 L665 Q666 R669 N670 P671 I672 Q673 A674 I675 S676
F677 L678 L679 Q680 N681 M682 D689 M690 E691 Q692 S693 Q694 R698 L699 N700 L701 S702 T703 L704 Y705 G706 S712 V713 V714 C715 Q716 A717 I718 I721 S722 R725 F726 C729 R730 D731 L732 L733 I734 H737 L738 L739 L740 R741 D744 L747 V748 G749 A750 L754
Q757 Q758 L767 L768 L769 S770 Y771 Y772 W773 I774 R775 W776 C780 L781 E791 S792 N793 L794 Q795 H796 L797 S798 V799 L800 E801 L802 S803 D804 S805 Q806 V807 E808 K809 R810 R811 Y812 T813 S814 G815 I816 T819 V820 E821 R829 K830 H831 F832 P833 Q834 V835 F836 A837 H838 I841
G844 S845 V848 H849 R850 S851 L852 Q867 L868 L869 W870 N873 P874 N875 A879 E880 C881 L882 M883 R884 N885 Y888 T889 Q890 L891 Q892 E893 Y894 V895 R896 V906 C909 H910 F911 M912 L913 A914 Q915 C916 Y917 L918 E922 G923 H924 K925 A926 C929 A933 A934
S935 E936 R939 E940 D941 F942 L943 L946 E950 E953 S954 V955 S956 Q960 Y961 R964 R967 L968 V972 G973 L974 P975 E976 L977 V978 I979 A982 I986 S987 E988 A989 S990 D991 R994 S995 Q996 L999 R1000 T1001 R1002 I1003 F1004 K1005 H1006 H1007 M1010 G1011
H1012 N1013 S1014 Q1015 A1016 Y1017 D1018 T1021 Q1022 I1023 L1036 L1040 R1043 S1044 Q1045 L1046 Q1047 D1048 L1049 V1050 E1051 F1052 V1055 N1056 L1057 H1058 N1059 E1060 V1061 V1062 I1065 R1070 L1074 H1077 N1078 E1081 L1082 L1083 Y1084 A1085 F1086 H1087 I1088 N1092 Y1093 R1094 K1095 A1096
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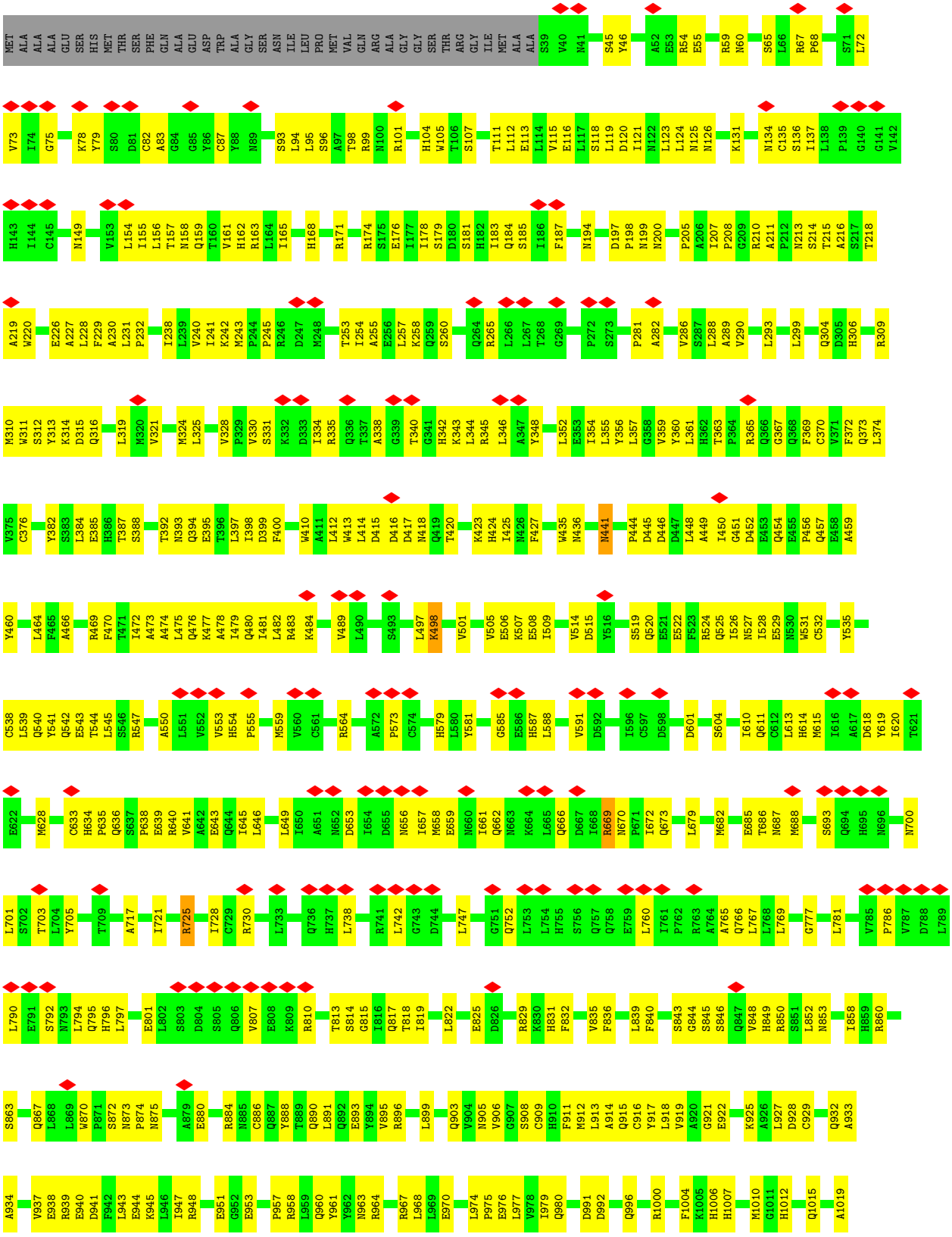
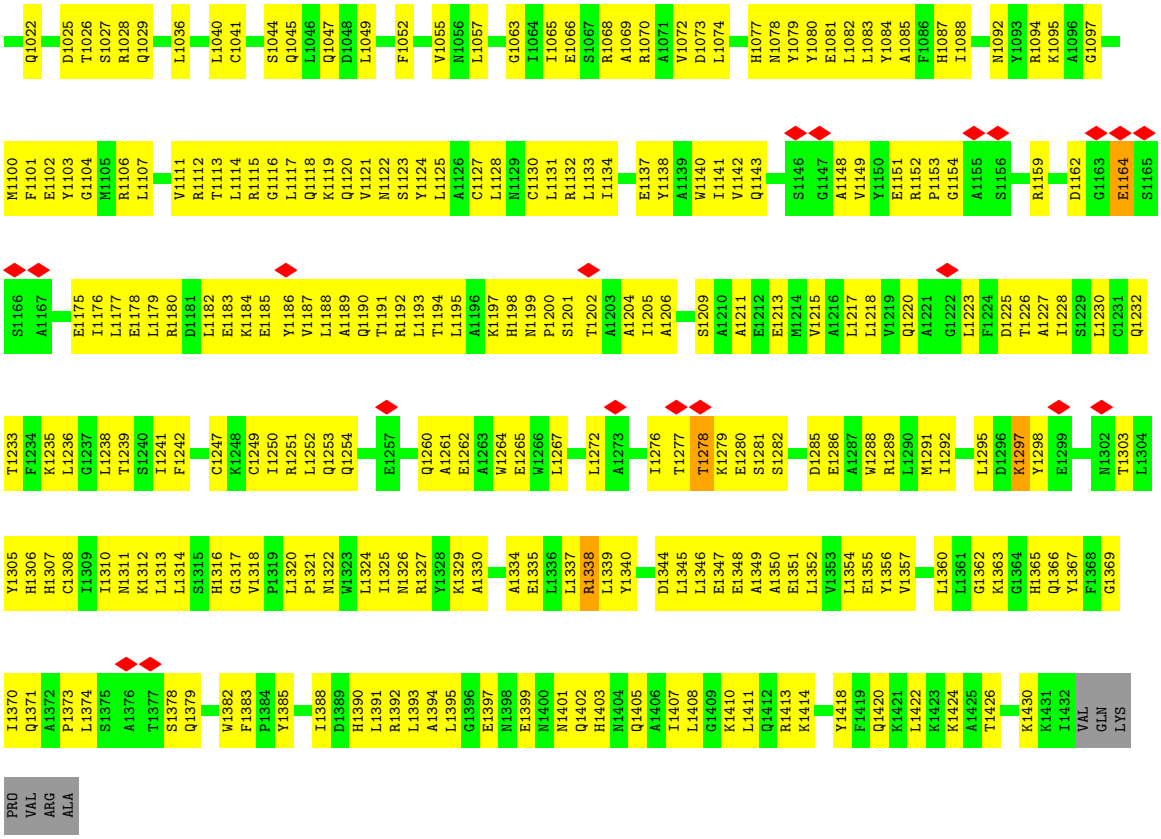
V1187 L1188 A1189 Q1190 T1191 R1192 L1193 T1194 L1195 A1196 K1197 H1198 N1199 T1202 I1205 A1206 G1207 S1208 S1209 V1215 L1218 G1222 L1223 F1224 D1225 T1226 A1227 I1228 S1229 L1230 C1231 Q1232 T1233 F1234 K1235 L1236 G1237 L1238 T1239 S1240 I1241 F1242 K1248 C1249 I1250 R1251 L1252 Q1253 Q1254 E1257 Q1260
W1264 L1267 N1270 Q1271 L1272 A1273 T1274 V1275 I1276 T1277 T1278 K1279 S1282 A1283 E1286 R1289 L1290 M1291 I1292 S1293 Y1294 L1295 D1296 K1297 Y1298 E1299 S1300 K1301 N1302 T1303 L1304 Y1305 H1306 H1307 C1308 I1309 I1310 N1311 K1312 L1313 H1316 G1317 V1318 P1319 L1320 P1321 N1322 W1323 L1324 Y1328 K1329 A1330 M1331
D1332 A1333 A1334 E1335 L1336 L1337 R1338 L1339 Y1340 L1341 K1342 Y1343 E1347 E1348 A1349 A1350 E1351 L1352 V1353 L1354 E1355 Y1356 V1357 D1358 A1359 L1360 L1361 G1362 K1363 G1364 H1365 Q1366 Y1367 A1372 P1373 L1374 L1380 V1381 W1382 F1383 P1384 Y1385 S1386 A1387 I1388 L1393 G1396 E1397 Q1402 H1403 N1404 I1407
L1411 Q1412 R1413 K1414 M1415 D1416 E1417 Y1418 F1419 Q1420 K1421 T1426 D1427 D1428 Y1429 K1430 K1431 I1432 VAL GLN LYS PRO VAL ARG ALA

• Molecule 4: Nup160

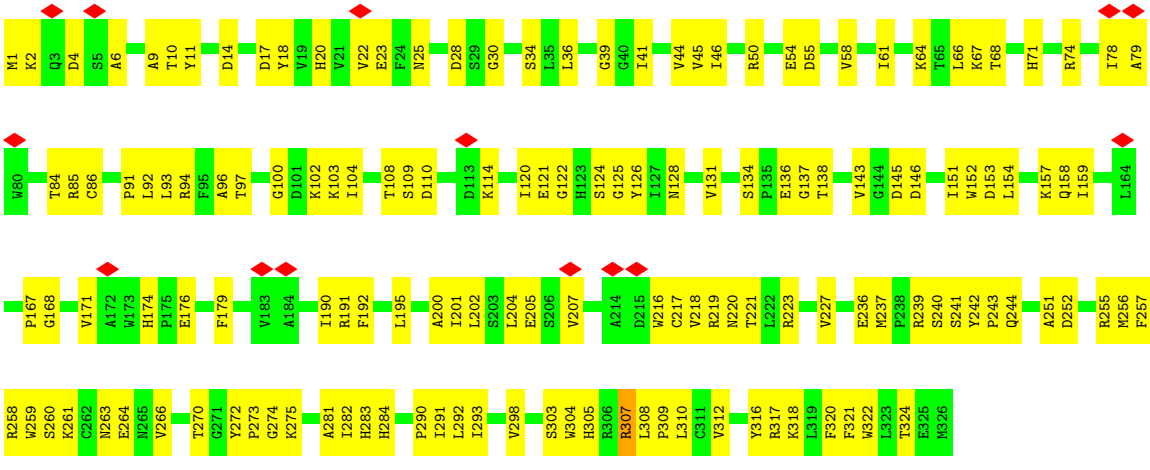
Chain M:





• Molecule 5: MGC83926 protein

Chain E:



• Molecule 5: MGC83926 protein

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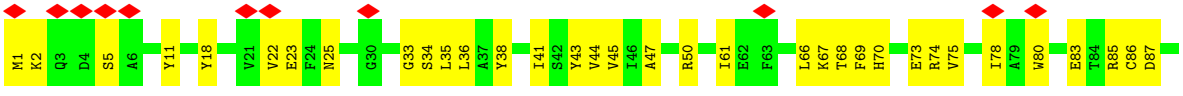
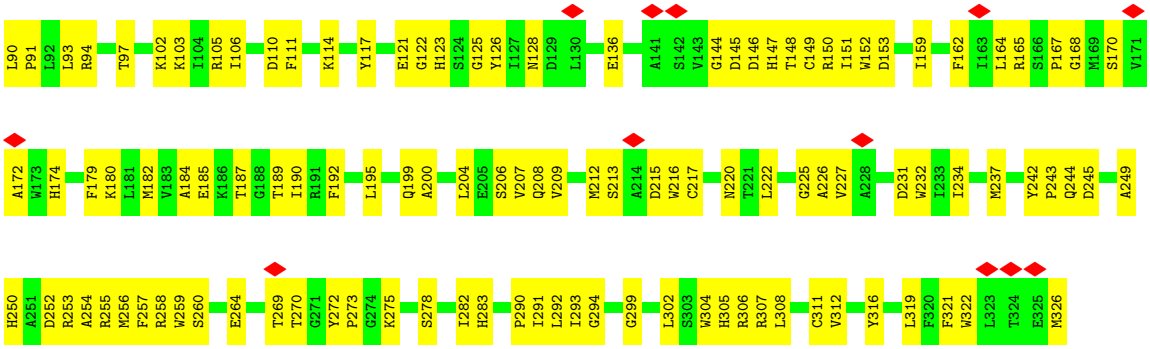
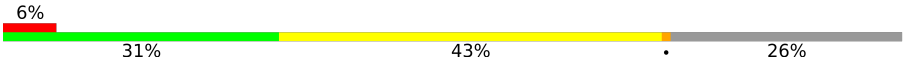
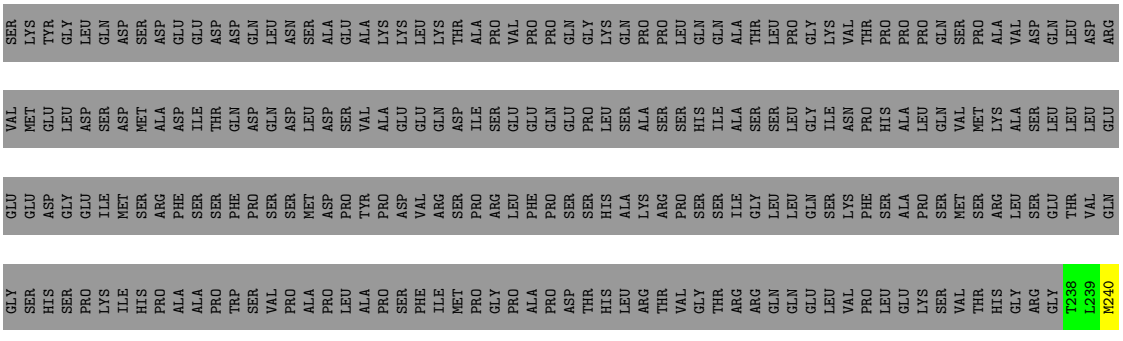


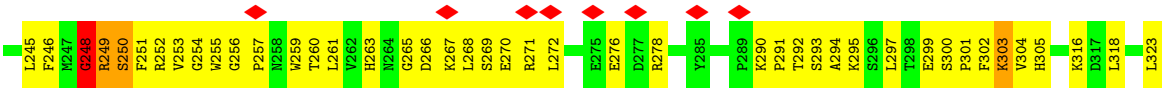


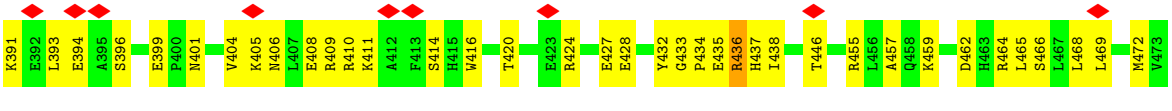
• Molecule 6: Nuclear pore complex protein Nup96

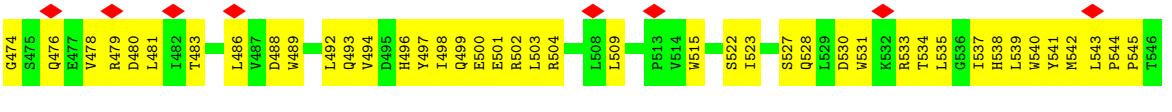
Chain F:

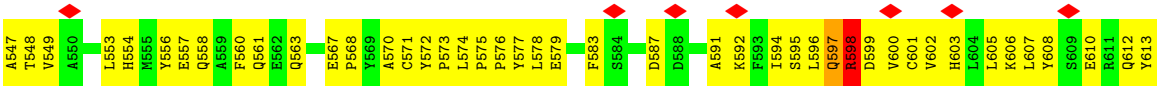


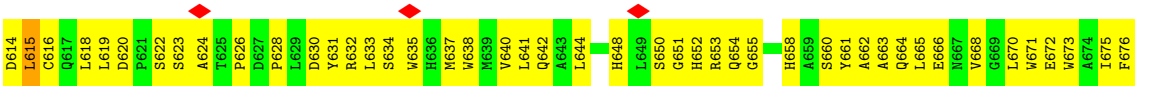


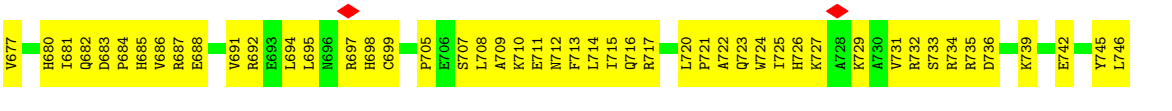


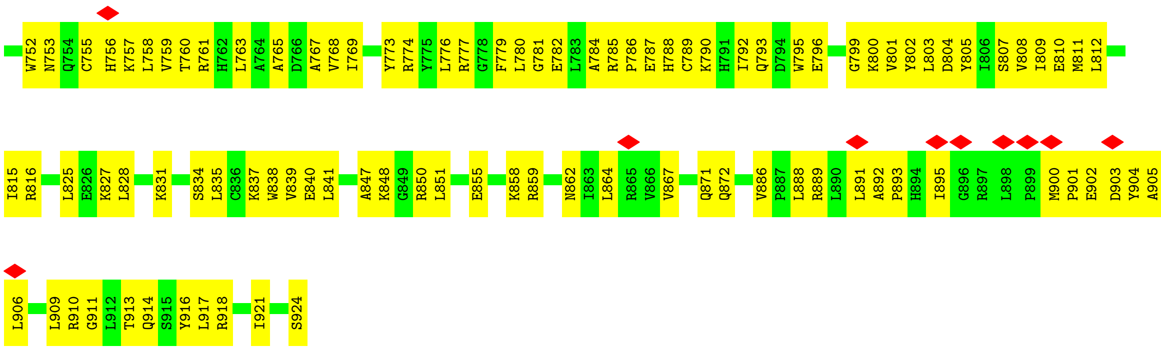






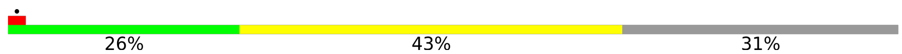


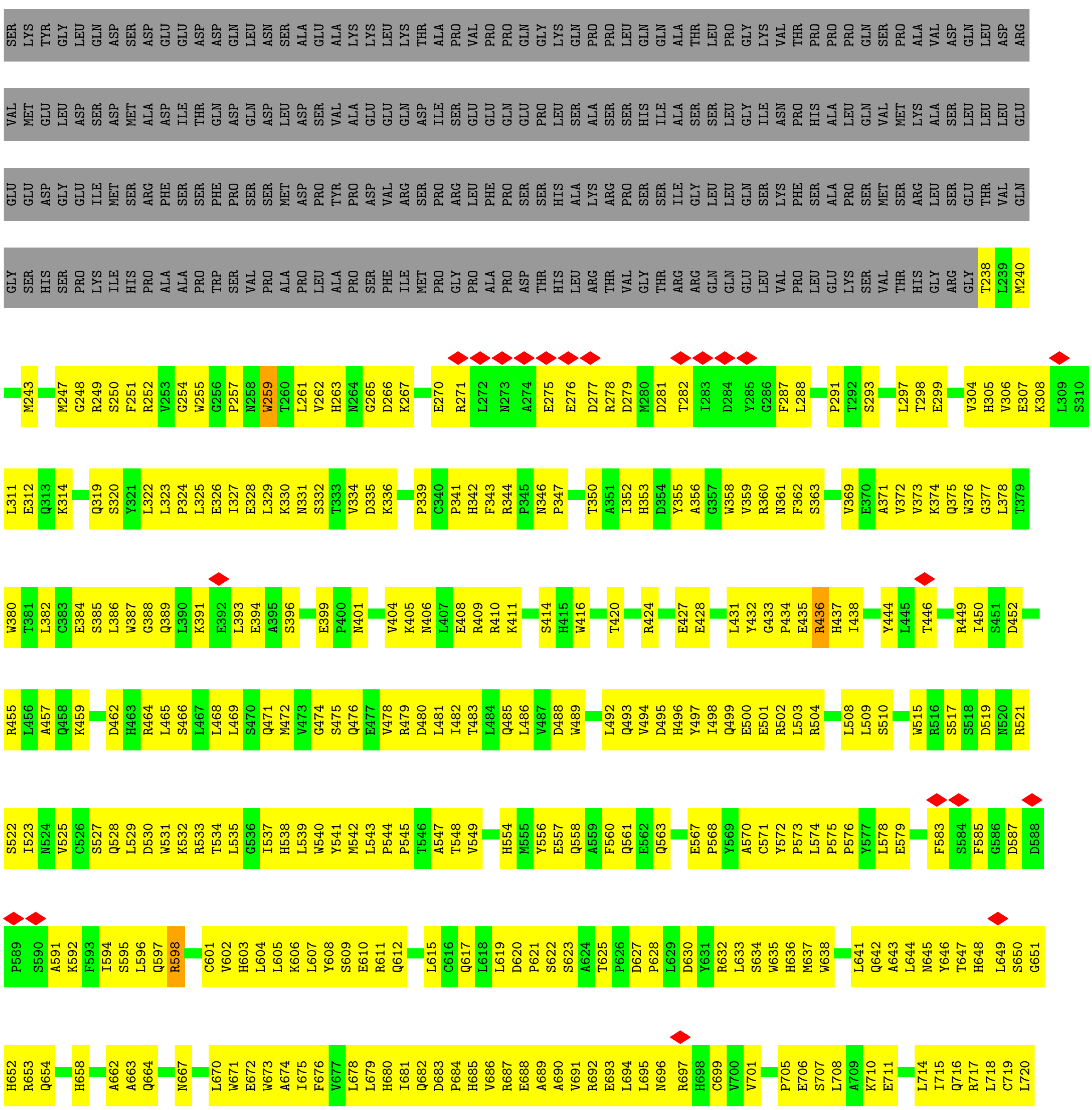


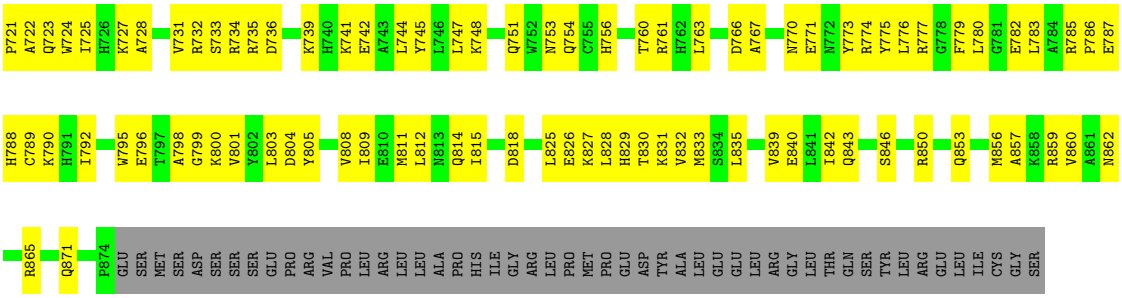


• Molecule 6: Nuclear pore complex protein Nup96

Chain O:

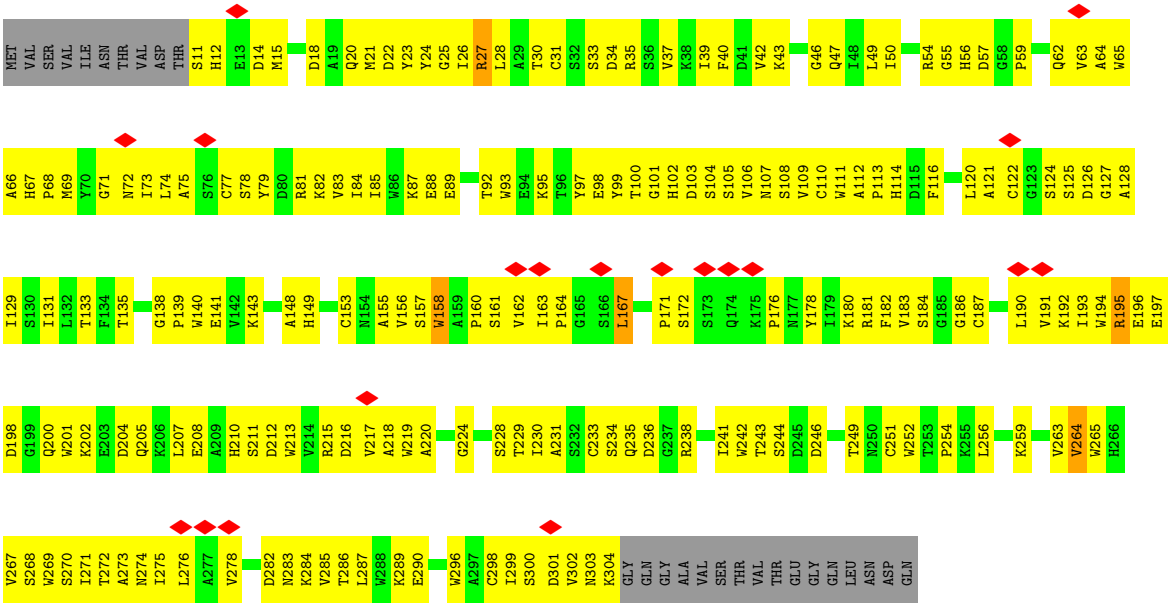






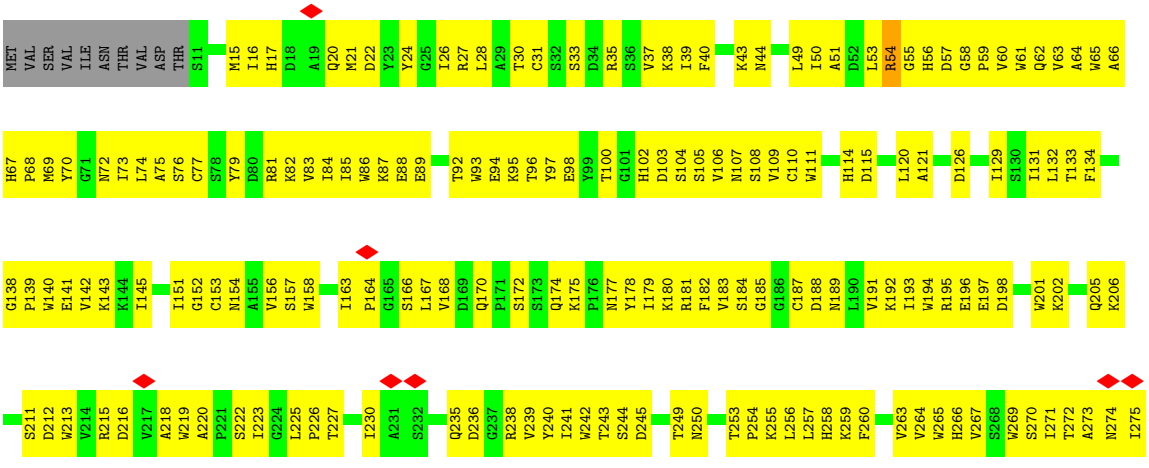
• Molecule 7: GATOR complex protein SEC13

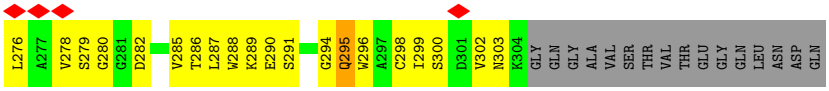
Chain G:



• Molecule 7: GATOR complex protein SEC13

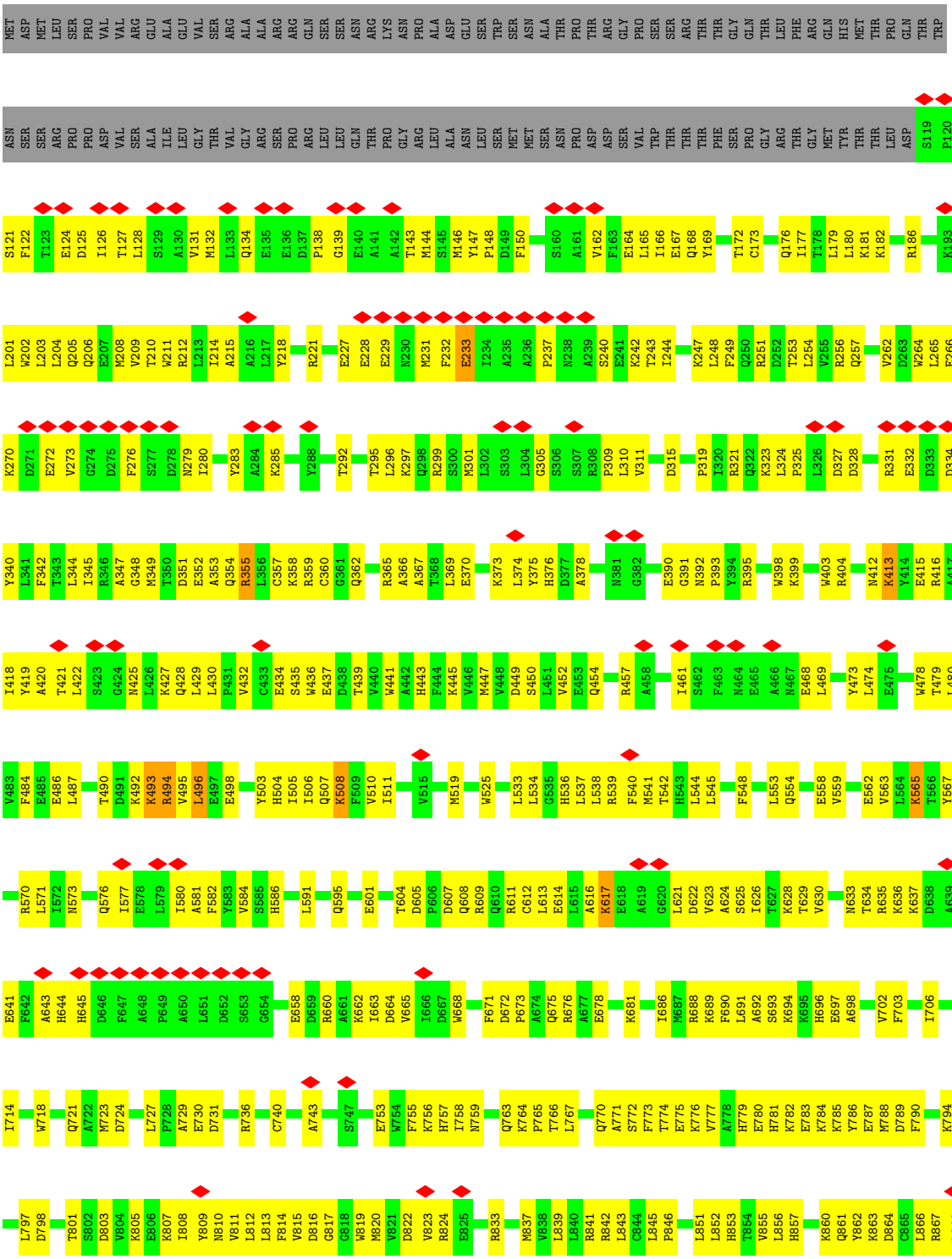
Chain P:

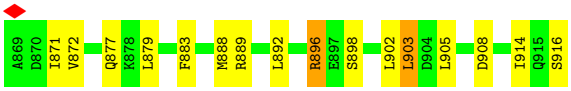




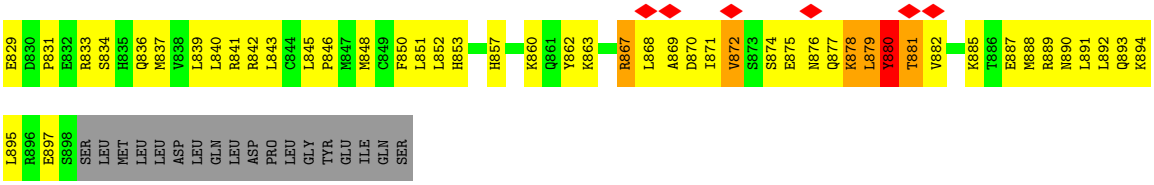
• Molecule 8: Nuclear pore complex protein

Chain H:



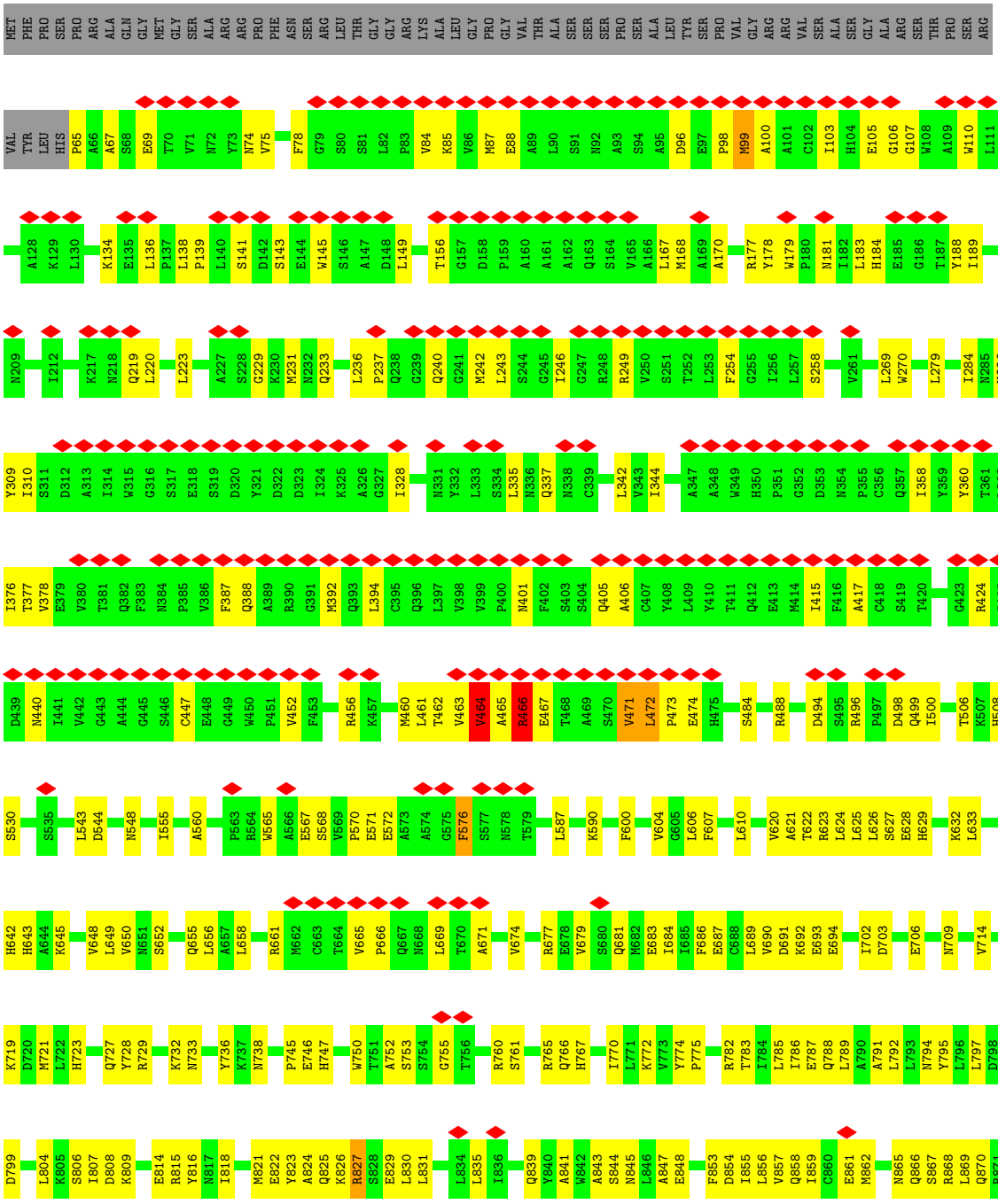


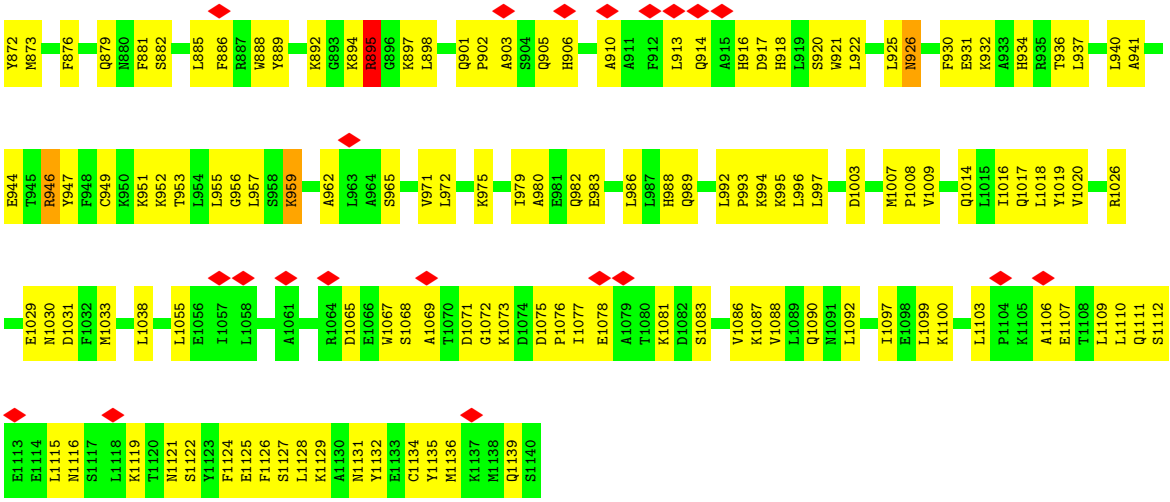
• Molecule 8: Nuclear pore complex protein



• Molecule 9: outer Nup133

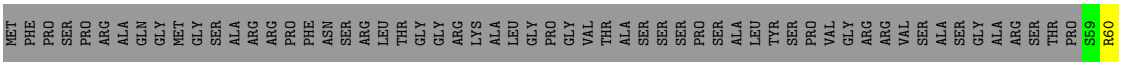
Chain I:

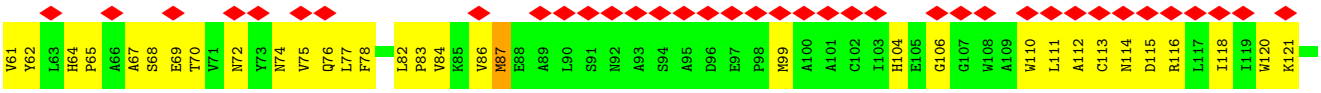


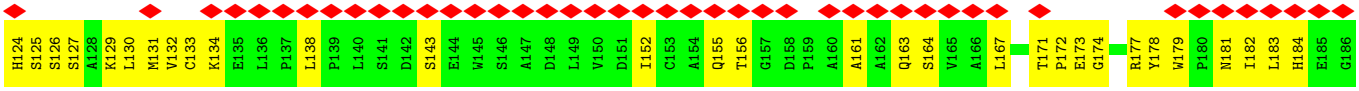


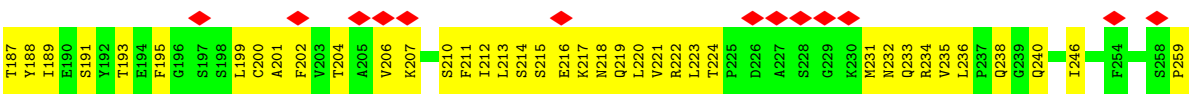
• Molecule 9: outer Nup133

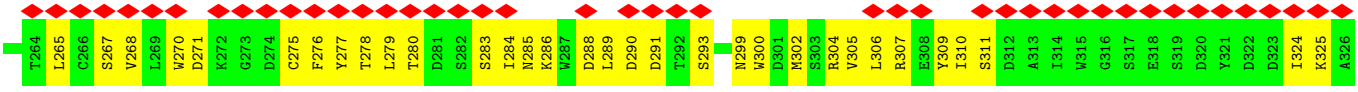
Chain R:

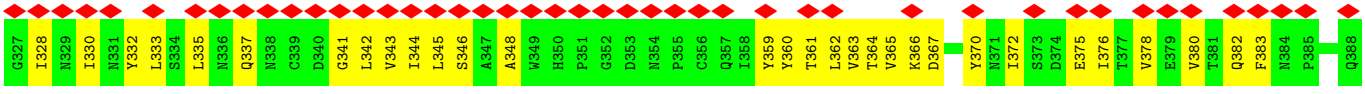


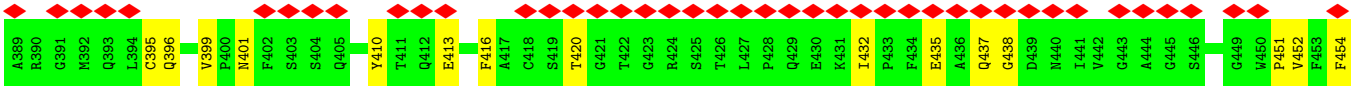


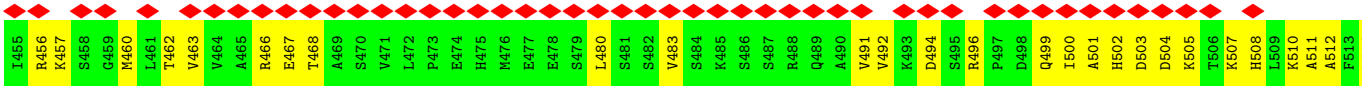


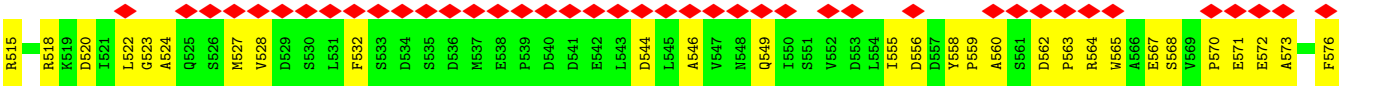


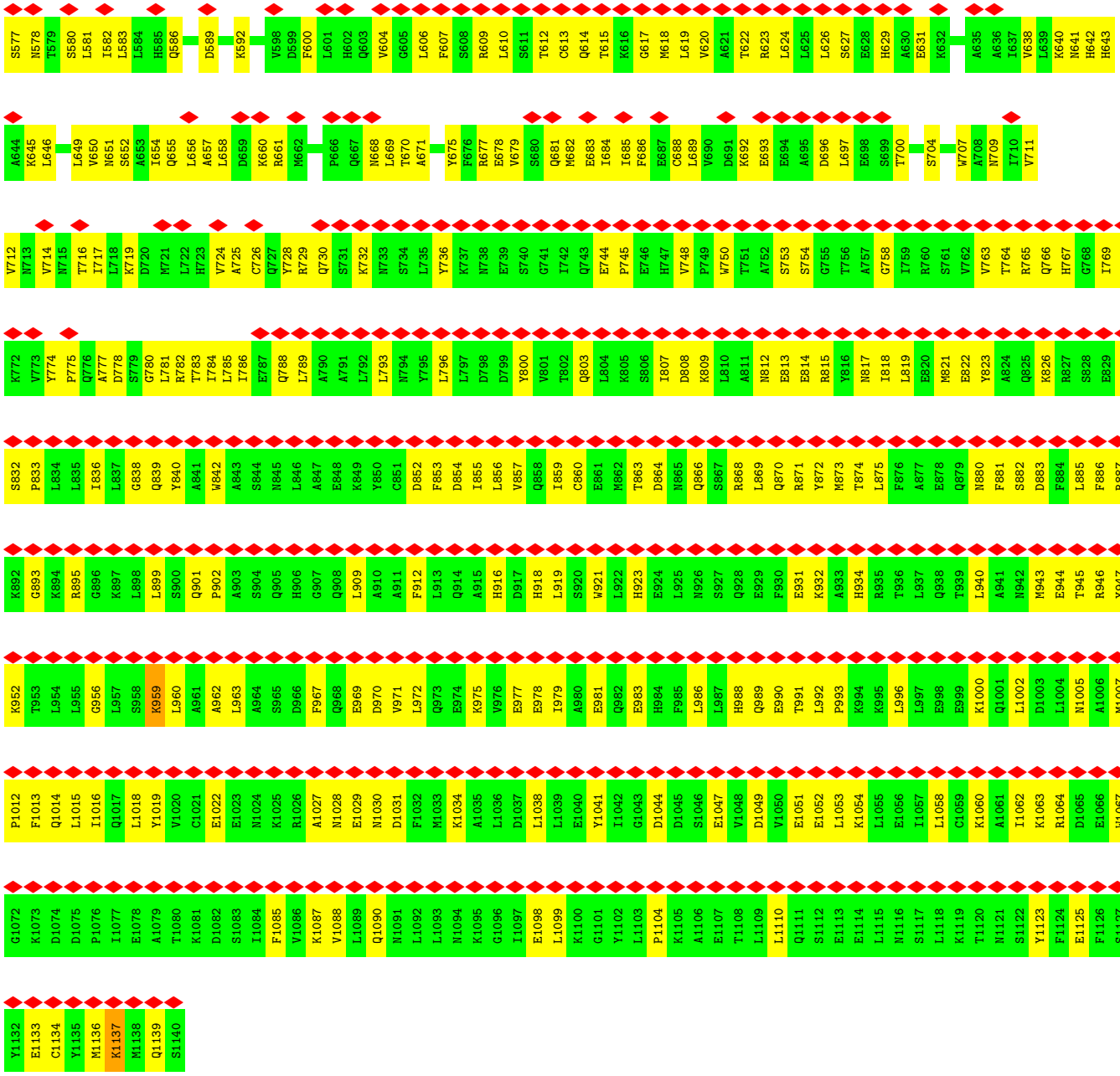






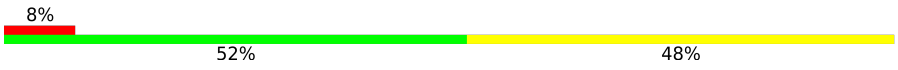


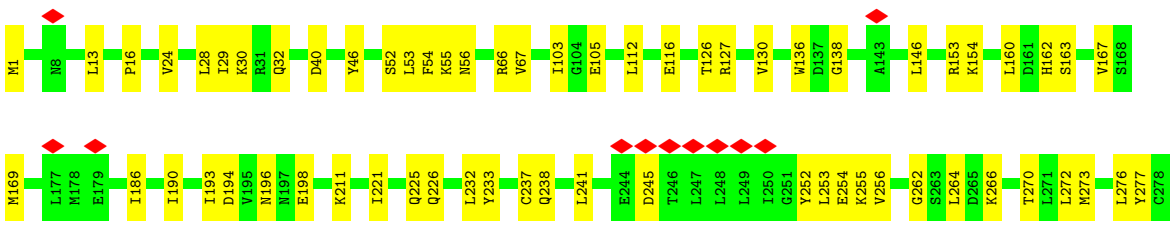


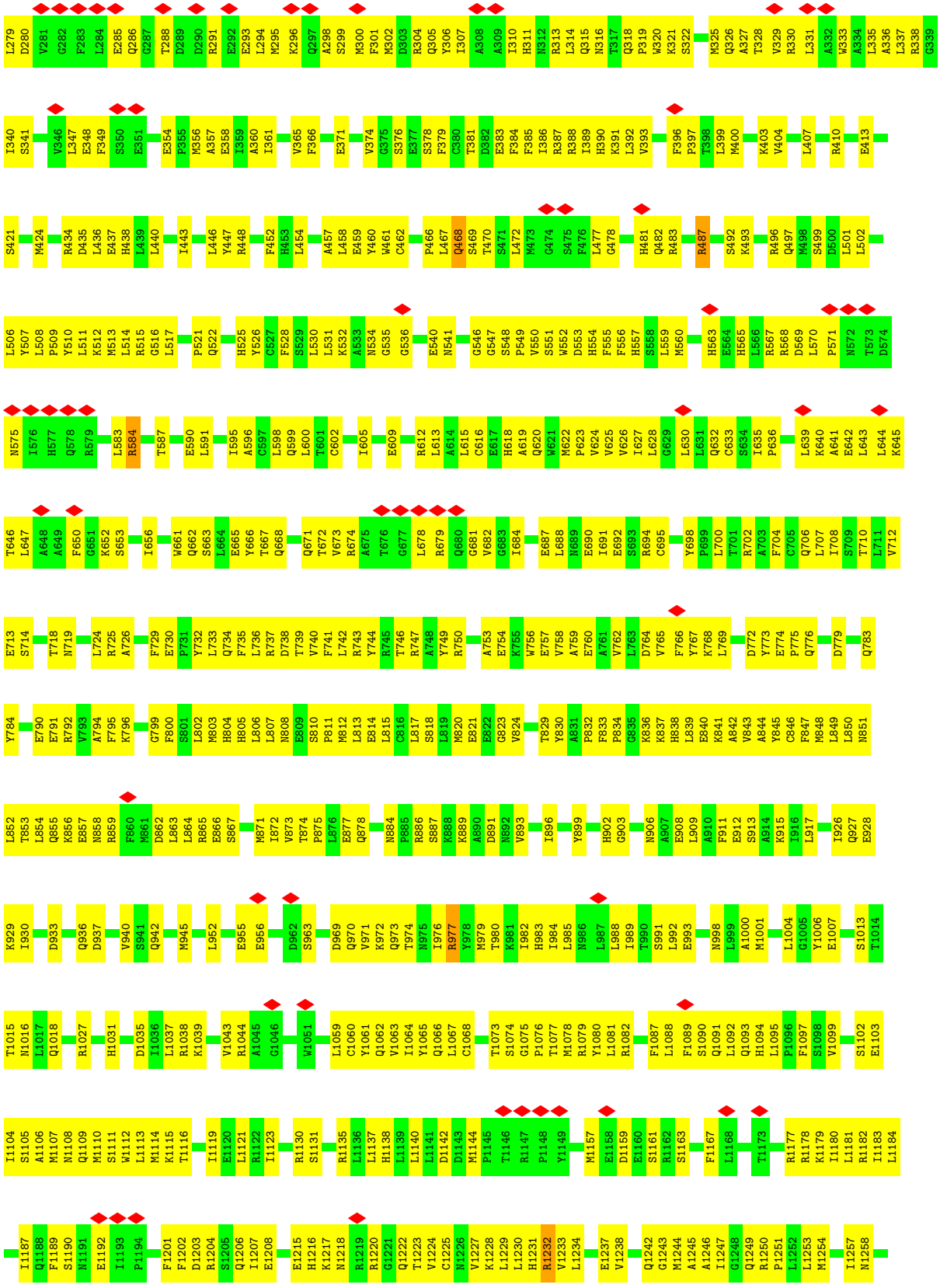


• Molecule 10: MGC83295 protein

Chain S:



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I340 S341 V346 L347 E348 F349 S350 E351 E354 P355 M356 A357 E358 I359 A360 I361 V365 F366 E371 V374 G375 S376 E377 S378 F379 C380 T381 D382 E383 F384 F385 I386 R387 R388 I389 H390 K391 L392 V393 F396 P397 T398 L399 M400 K403 V404 L407 R410 E413
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T646 L647 A648 A649 F650 G651 K652 S653 I656 W661 Q662 S663 L664 E665 Y666 T667 Q668 Q671 T672 V673 R674 A675 T676 G677 L678 R679 Q680 G681 V682 G683 I684 E687 L688 N689 E690 I691 E692 S693 R694 C695 Y698 P699 L700 T701 R702 A703 F704 C705 Q706 L707 I708 S709 T710 L711 V712
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Y784 E790 E791 R792 Y793 A794 F795 K796 G799 F800 S801 L802 M803 H804 H805 L806 L807 N808 E809 S810 P811 M812 L813 E814 L815 C816 L817 S818 L819 M820 E821 E822 G823 V824 T829 Y830 A831 P832 F833 P834 G835 K836 K837 H838 L839 E840 K841 A842 V843 A844 Y845 C846 F847 M848 L849 L850 N851
L852 T853 L854 Q855 K856 E857 N858 R859 P860 M861 D862 L863 L864 R865 E866 S867 M871 I872 V873 T874 P875 L876 E877 Q878 N884 P885 R886 S887 K888 K889 A890 D891 N892 V893 I896 Y899 H902 G903 N906 A907 E908 L909 A910 F911 E912 S913 A914 K915 I916 L917 I926 Q927 E928
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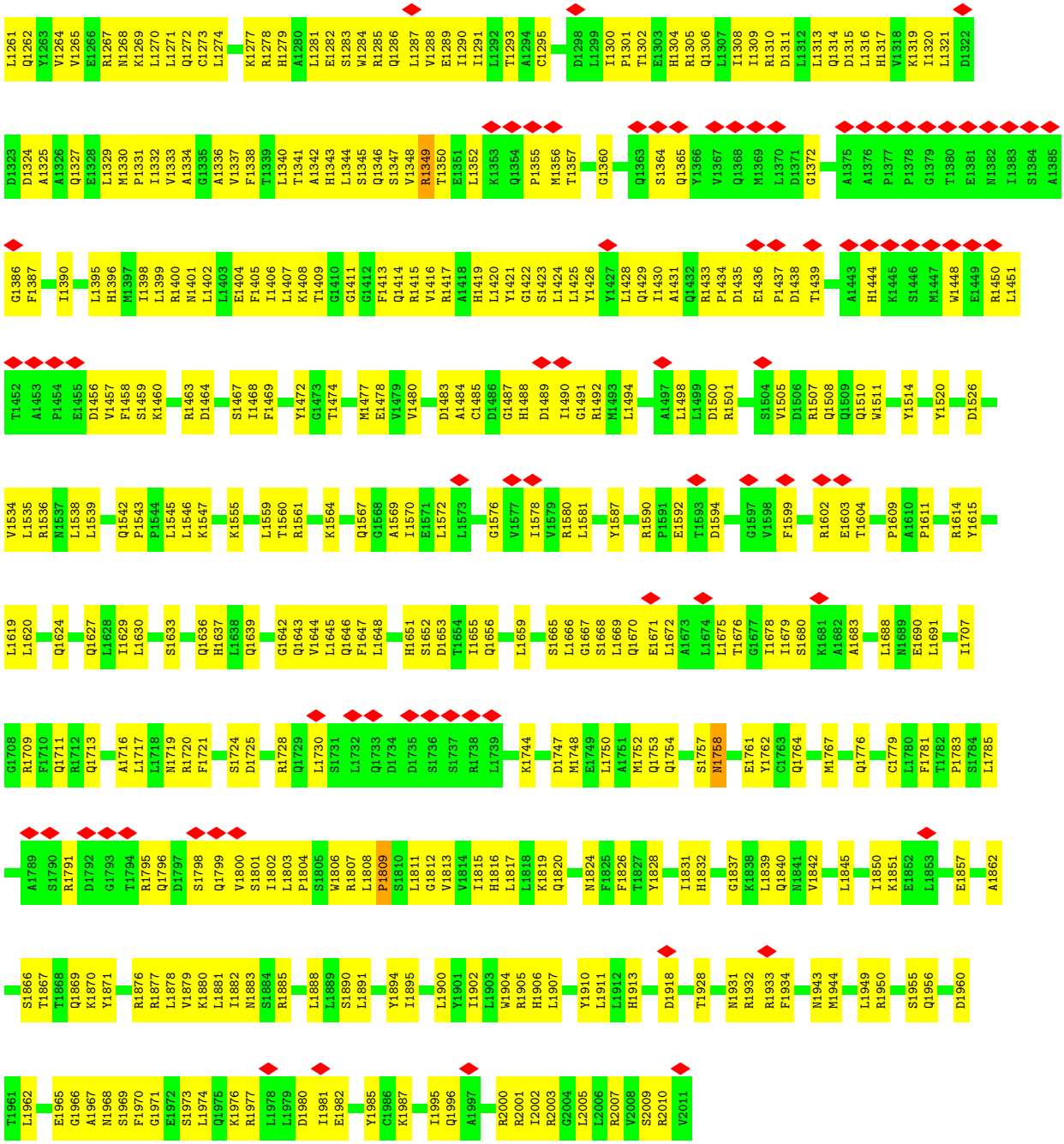
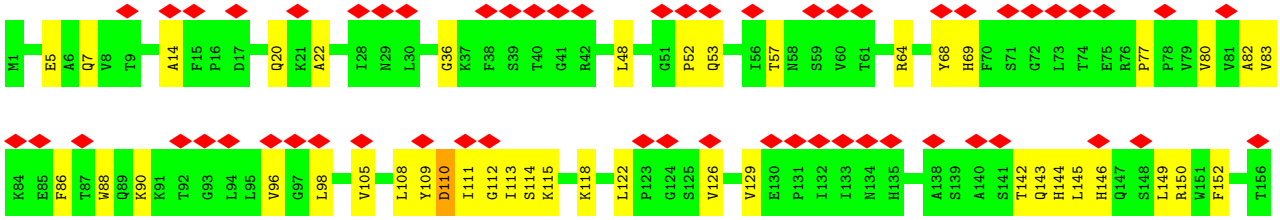
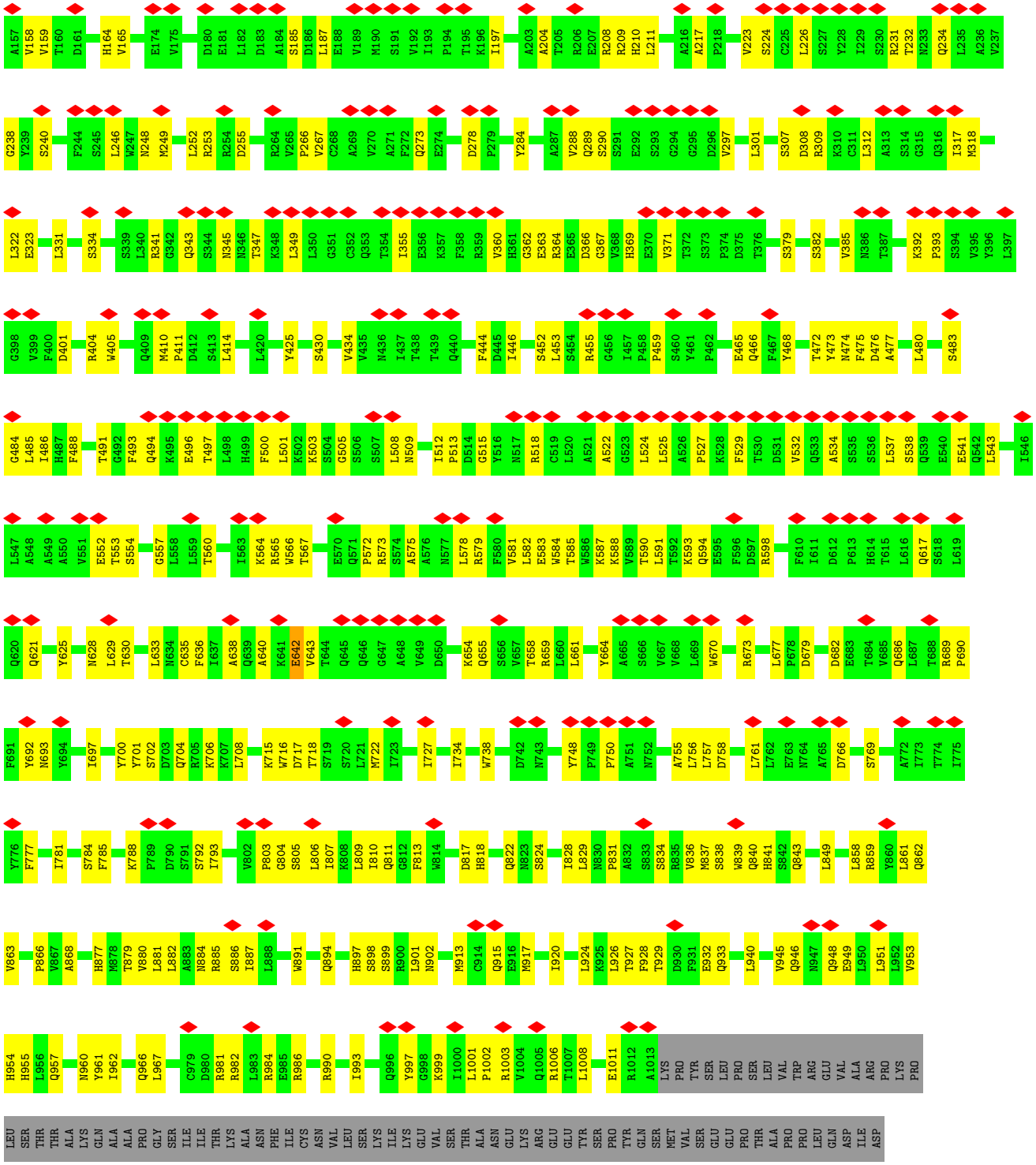


• Molecule 11: Protein ELYS

Chain T:

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G238 Y239 S240 F244 S245 L246 W247 N248 M249 L252 R253 R254 D255 R264 V265 P266 V267 C268 A269 V270 A271 F272 Q273 E274 D278 P279 Y284 A287 V288 Q289 S290 S291 E292 S293 G294 G295 D296 V297 L301 S307 D308 R309 K310 C311 L312 A313 S314 G315 Q316 I317 M318
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G484 L485 I486 H487 F488 T491 G492 F493 Q494 K495 E496 T497 L498 H499 F500 L501 K502 K503 S504 G505 S506 S507 L508 N509 I512 P513 D514 G515 Y516 N517 R518 C519 L520 A521 A522 G523 L524 L525 A526 P527 K528 F529 T530 D531 V532 Q533 A534 S535 S536 L537 S538 Q539 E540 E541 Q542 L543 I546
L547 A548 A549 A550 V551 E552 T553 S554 G557 L558 L559 T560 I563 K564 R565 W566 T567 E570 Q571 P572 R573 S574 A575 A576 N577 L578 R579 F580 V581 L582 E583 W584 T585 W586 K587 K588 V589 T590 L591 T592 K593 Q594 E595 F596 D597 R598 F610 I611 D612 P613 H614 T615 L616 Q617 S618 L619
Q620 Q621 Y625 N628 L629 T630 L633 N634 C635 F636 I637 A638 Q639 A640 K641 E642 V643 T644 Q645 Q646 G647 A648 V649 D650 K654 Q655 S656 V657 T658 R659 L660 L661 Y664 A665 S666 V667 V668 L669 W670 R673 L677 P678 D679 D682 E683 T684 V685 Q686 L687 T688 R689 P690
F691 Y692 N693 Y694 I697 Y700 Y701 S702 D703 Q704 R705 K706 K707 L708 K715 W716 D717 T718 S719 S720 L721 M722 I723 I727 I734 W738 D742 N743 Y748 P749 P750 A751 N752 A755 L756 L757 D758 L761 L762 E763 N764 A765 D766 S769 A772 I773 T774 I775
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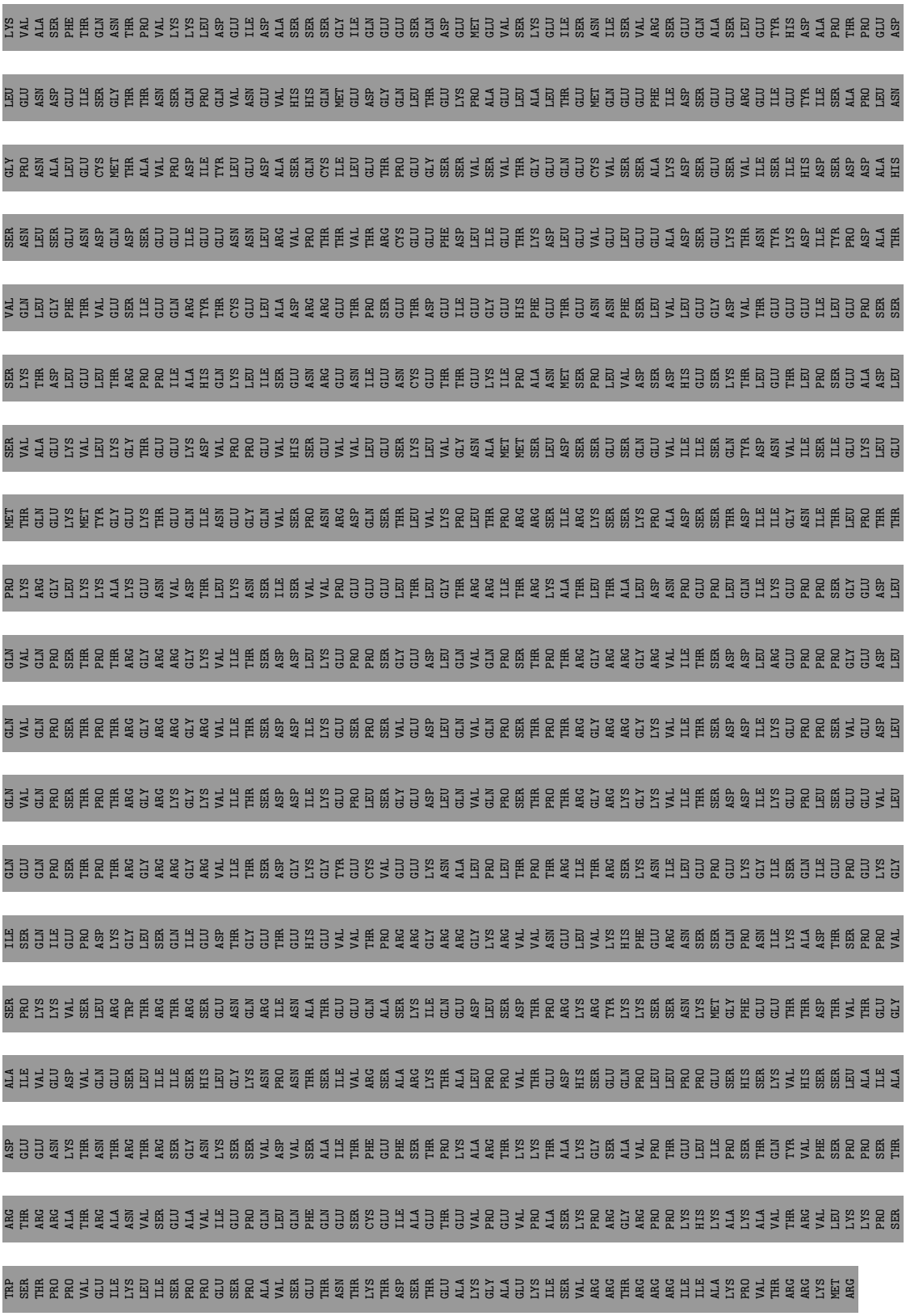
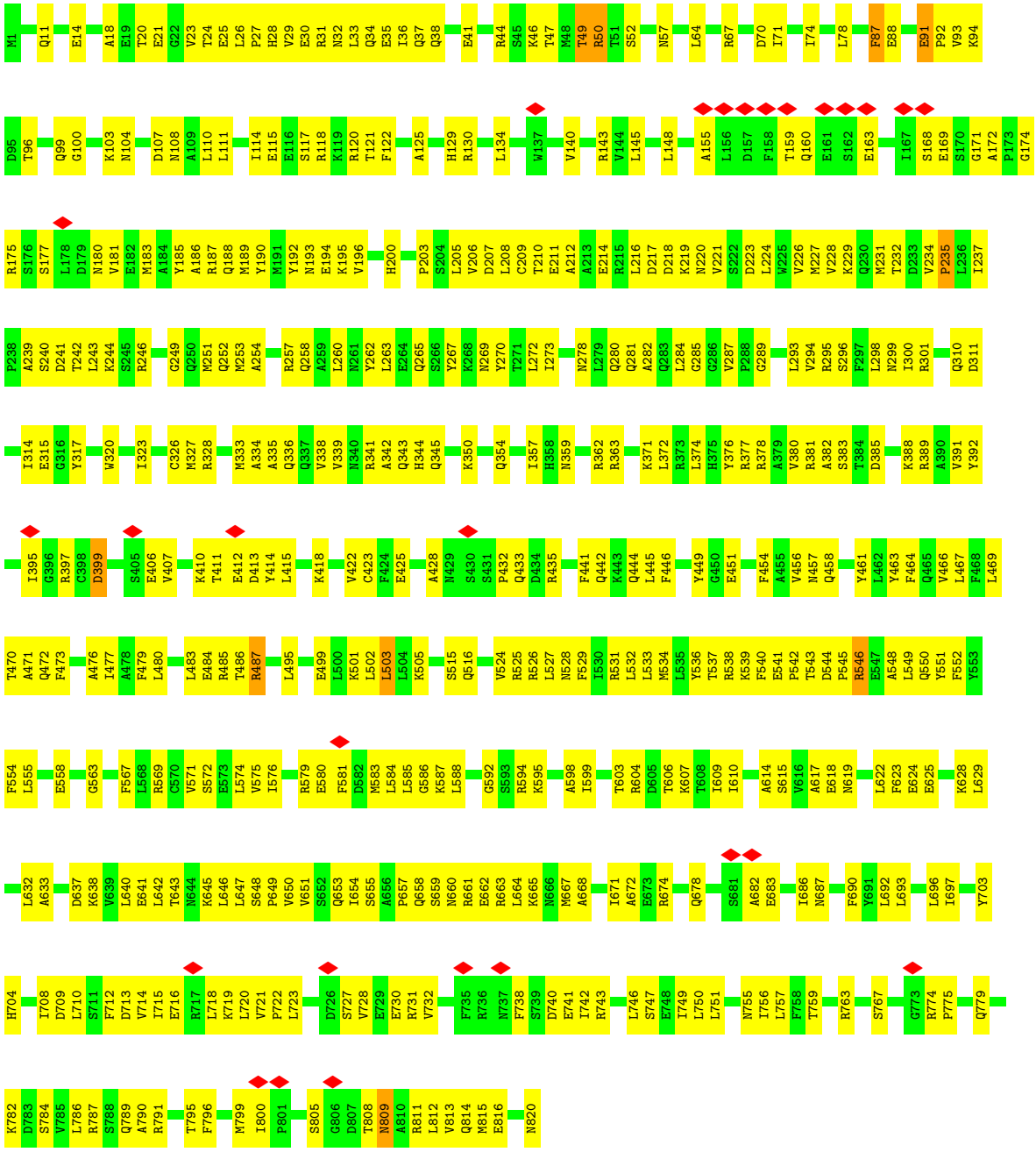
V863 P866 V867 A868 H877 M878 T879 V880 L881 L882 A883 N884 R885 S886 I887 L888 W891 Q894 H897 S898 S899 R900 L901 N902 M913 C914 Q915 E916 M917 I920 L924 K925 L926 T927 F928 T929 D930 F931 E932 Q933 L940 V945 Q946 N947 Q948 E949 L950 L951 L952 V953
H954 H955 L956 Q957 N960 Y961 I962 Q966 L967 C979 D980 R981 R982 L983 R984 E985 R986 R990 I993 Q996 Y997 G998 K999 I1000 L1001 P1002 R1003 V1004 Q1005 R1006 T1007 L1008 E1011 R1012 A1013 LYS PRO TYR SER LEU PRO SER LEU VAL TRP ARG GLU VAL ALA ARG PRO LYS PRO
LEU SER THR THR ALA LYS GLN ALA ALA PRO GLY SER ILE ILE THR LYS ALA ASN PHE ILE CYS ASN VAL VAL LEU SER LYS ILE LYS GLU VAL SER THR GLU VAL ARG GLU GLU TYR SER PRO TYR GLN SER MET VAL SER GLU GLU PRO THR ALA PRO PRO LEU GLN ASP ILE ASP
VAL PRO ASP ALA PHE PHE GLY THR PRO ILE ASN LYS SER ILE ARG ARG VAL SER ARG LEU LEU ASP SER VAL VAL HIS PRO VAL LEU MET GLU PRO THR PRO LEU THR SER SER ASP THR ASP ASN ASN GLN THR PRO HIS LYS SER PRO LEU LEU LYS THR SER PRO PRO LEU HIS SER SER
LEU ARG ARG ILE ALA HIS MET ARG SER PHE ALA LYS ALA SER GLU PHE SER LEU LEU GLU THR PRO LEU VAL VAL ARG LYS ALA LYS ALA LEU ALA ALA ASN THR ALA SER SER GLU GLY TYR THR SER ILE THR PRO GLN SER ILE LEU LEU ARG SER SER VAL ARG THR THR PRO LEU VAL SER
PRO SER VAL SER LEU THR PRO PRO LEU ARG PRO LYS GLU THR LYS ILE SER PHE MET GLU LEU SER PHE VAL ARG LYS ALA ALA HIS SER SER GLU GLY ASN LEU LEU LEU ALA ILE SER PRO VAL LEU ARG SER SER PRO ASP ALA VAL TRP SER VAL LYS GLY



• Molecule 12: Nuclear pore complex protein Nup93

Chain U:


M1 Q11 E14 A18 E19 T20 E21 G22 V23 T24 E25 L26 P27 H28 V29 E30 R31 N32 L33 Q34 E35 I36 Q37 Q38 E41 R44 S45 K46 T47 M48 T49 R50 T51 S52 N57 L64 R67 D70 I71 I74 L78 F87 E88 E91 P92 V93 K94
D96 T96 Q99 G100 K103 N104 D107 N108 A109 L110 L111 I114 E115 E116 S117 R118 K119 R120 T121 F122 A125 H129 R130 L134 W137 V140 R143 V144 L145 L148 A155 L156 D157 F158 T159 Q160 E161 S162 E163 I167 S168 E169 S170 G171 A172 P173 G174
R175 S176 S177 L178 D179 N180 V181 E182 M183 A184 Y185 A186 R187 Q188 M189 Y190 M191 Y192 N193 E194 K195 V196 H200 P203 S204 L205 V206 D207 L208 C209 T210 E211 A212 A213 E214 R215 L216 D217 D218 K219 N220 V221 S222 D223 L224 W225 V226 M227 V228 K229 Q230 M231 T232 D233 V234 P235 L236 I237
P238 A239 S240 D241 T242 L243 K244 S245 R246 G249 Q250 M251 Q252 M253 A254 R257 Q258 A259 L260 N261 Y262 L263 E264 Q265 S266 Y267 K268 N269 Y270 T271 L272 I273 N278 L279 Q280 Q281 A282 Q283 L284 Q285 G286 V287 P288 G289 L293 V294 R295 S296 F297 L298 N299 I300 R301 Q310 D311
I314 E315 G316 Y317 W320 I323 C326 M327 R328 M333 A334 A335 Q336 Q337 V338 V339 N340 R341 A342 Q343 H344 Q345 K350 Q354 I357 H358 N359 R362 R363 K371 L372 R373 L374 H375 Y376 R377 R378 A379 V380 R381 A382 S383 T384 D385 K388 R389 A390 V391 Y392
T395 G396 R397 C398 D399 S405 E406 V407 K410 T411 E412 D413 Y414 L415 K418 V422 C423 F424 E425 A428 N429 S430 S431 P432 Q433 D434 R435 F441 Q442 K443 Q444 L445 F446 Y449 G450 E451 F454 A455 V456 N457 Q458 Y461 L462 Y463 F464 Q465 V466 L467 F468 L469
T470 A471 Q472 F473 A476 I477 A478 F479 L480 L483 E484 R485 T486 R487 L495 E499 L500 K501 L502 L503 L504 K505 S515 Q516 V524 R525 R526 L527 N528 F529 I530 R531 L532 L533 M534 L535 Y536 T537 R538 L539 F540 E541 P542 T543 D544 P545 R546 E547 A548 L549 Q550 Y551 F552 Y553
F554 L555 E558 G563 F567 L568 R569 C570 V571 S572 E573 L574 V575 I576 R579 E580 F581 D582 M583 L584 L585 G586 K587 L588 G592 S593 R594 K595 A598 I599 T603 R604 D605 T606 K607 T608 I609 I610 A614 S615 V616 A617 E618 N619 L622 F623 E624 E625 K628 L629
L632 A633 D637 K638 V639 L640 E641 L642 T643 N644 K645 L646 L647 S648 P649 V650 V651 S652 Q653 I654 S655 A656 P657 Q658 S659 N660 R661 E662 R663 L664 K665 N666 M667 A668 I671 A672 E673 R674 Q678 S681 A682 E683 I686 N687 F690 Y691 L692 L693 L696 I697 Y703
H704 I708 D709 L710 S711 F712 D713 V714 I715 E716 R717 L718 K719 L720 V721 P722 L723 D726 S727 V728 E729 E730 R731 V732 F735 R736 N737 F738 S739 D740 E741 I742 R743 L746 S747 E748 I749 L750 L751 N755 I756 L757 F758 T759 R763 S767 G773 R774 P775 Q779
K782 D783 S784 V785 L786 R787 S788 Q789 A790 R791 T795 F796 M799 I800 P801 S805 G806 D807 T808 N809 A810 R811 L812 V813 Q814 M815 E816 N820

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	417490	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 ($e^-/Å^2$)	60	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	6000	Depositor
Magnification	Not provided	
Image detector	GATAN K2 QUANTUM (4k x 4k)	Depositor
Maximum map value	3.301	Depositor
Minimum map value	-2.133	Depositor
Average map value	0.008	Depositor
Map value standard deviation	0.092	Depositor
Recommended contour level	0.4	Depositor
Map size (Å)	716.8, 716.8, 716.8	wwPDB
Map dimensions	320, 320, 320	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	2.24, 2.24, 2.24	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	0.37	1/5377 (0.0%)	0.65	2/7265 (0.0%)
1	J	0.31	0/5377	0.56	0/7265
2	B	0.33	0/2996	0.63	0/4074
2	K	0.28	0/2996	0.55	0/4074
3	C	0.35	0/2674	0.60	0/3628
3	L	0.31	0/2612	0.56	0/3545
4	D	0.29	0/11349	0.54	4/15414 (0.0%)
4	M	0.32	1/11349 (0.0%)	0.56	3/15414 (0.0%)
5	E	0.29	0/2643	0.53	0/3587
5	N	0.28	0/2643	0.53	0/3587
6	F	0.35	0/5699	0.60	1/7730 (0.0%)
6	O	0.35	0/5299	0.60	1/7189 (0.0%)
7	G	0.41	0/2367	0.63	1/3231 (0.0%)
7	P	0.39	0/2367	0.61	0/3231
8	H	0.32	0/6628	0.55	1/8968 (0.0%)
8	Q	0.35	0/6483	0.57	1/8772 (0.0%)
9	I	1.19	6/8647 (0.1%)	0.53	5/11720 (0.0%)
9	R	0.32	1/8703 (0.0%)	0.55	4/11797 (0.0%)
10	S	0.30	0/16272	0.54	0/22021
11	T	0.30	1/8213 (0.0%)	0.52	3/11150 (0.0%)
12	U	0.31	0/6685	0.58	1/9025 (0.0%)
All	All	0.44	10/127379 (0.0%)	0.56	27/172687 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	B	0	1
6	F	0	4
7	G	0	2
8	H	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	Q	0	1
9	I	0	2
11	T	0	1
12	U	0	1
All	All	0	13

All (10) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	I	576	PHE	CD2-CE2	51.58	2.42	1.39
9	I	576	PHE	CD1-CE1	51.20	2.41	1.39
9	I	576	PHE	CE1-CZ	48.40	2.29	1.37
9	I	576	PHE	CE2-CZ	46.94	2.26	1.37
9	I	576	PHE	CG-CD1	30.21	1.84	1.38
9	I	576	PHE	CG-CD2	29.71	1.83	1.38
11	T	642	GLU	CA-C	13.03	1.86	1.52
4	M	786	PRO	CG-CD	-12.14	1.10	1.50
9	R	902	PRO	CG-CD	-12.02	1.10	1.50
1	A	550	GLN	CA-CB	-5.67	1.41	1.53

All (27) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	R	902	PRO	N-CD-CG	-15.00	80.70	103.20
4	M	786	PRO	N-CD-CG	-13.51	82.93	103.20
11	T	642	GLU	O-C-N	-10.30	106.22	122.70
9	R	902	PRO	CA-N-CD	-9.27	98.52	111.50
11	T	642	GLU	N-CA-CB	-9.26	93.93	110.60
4	M	786	PRO	CA-N-CD	-9.10	98.76	111.50
11	T	642	GLU	CB-CA-C	8.52	127.43	110.40
9	R	902	PRO	CA-CB-CG	-8.48	87.89	104.00
1	A	414	LEU	CA-CB-CG	7.94	133.56	115.30
4	M	786	PRO	CA-CB-CG	-7.48	89.80	104.00
9	R	87	MET	CB-CG-SD	-7.31	90.47	112.40
8	Q	544	LEU	CA-CB-CG	7.06	131.53	115.30
12	U	235	PRO	CA-N-CD	-7.05	101.63	111.50
9	I	576	PHE	CD1-CG-CD2	6.87	127.23	118.30
9	I	576	PHE	CB-CG-CD2	-6.65	116.15	120.80
9	I	576	PHE	CB-CG-CD1	-6.27	116.41	120.80
4	D	1352	LEU	CB-CG-CD1	-5.80	101.13	111.00
9	I	99	MET	CB-CG-SD	-5.73	95.20	112.40
8	H	903	LEU	CA-CB-CG	5.59	128.16	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	G	167	LEU	CA-CB-CG	5.53	128.01	115.30
4	D	1125	LEU	CA-CB-CG	5.29	127.47	115.30
4	D	1337	LEU	CA-CB-CG	5.29	127.46	115.30
6	F	248	GLY	N-CA-C	-5.25	99.99	113.10
4	D	1339	LEU	CA-CB-CG	5.15	127.15	115.30
1	A	576	LEU	CA-CB-CG	-5.10	103.58	115.30
9	I	895	ARG	CB-CG-CD	-5.10	98.34	111.60
6	O	259	TRP	CA-CB-CG	-5.04	104.12	113.70

There are no chirality outliers.

All (13) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	B	244	VAL	Peptide
6	F	248	GLY	Peptide
6	F	250	SER	Peptide
6	F	409	ARG	Sidechain
6	F	598	ARG	Sidechain
7	G	158	TRP	Peptide
7	G	264	VAL	Peptide
8	H	355	ARG	Sidechain
9	I	466	ARG	Sidechain
9	I	895	ARG	Sidechain
8	Q	355	ARG	Sidechain
11	T	110	ASP	Peptide
12	U	49	THR	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	5268	0	5226	435	0
1	J	5268	0	5226	391	0
2	B	2927	0	2800	271	0
2	K	2927	0	2800	213	0
3	C	2607	0	2513	279	0
3	L	2546	0	2444	207	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	D	11118	0	11035	511	0
4	M	11118	0	11035	655	0
5	E	2573	0	2503	139	0
5	N	2573	0	2503	133	0
6	F	5560	0	5469	558	0
6	O	5168	0	5080	442	0
7	G	2300	0	2180	235	0
7	P	2300	0	2180	265	0
8	H	6494	0	6413	422	0
8	Q	6351	0	6268	543	0
9	I	8482	0	8354	384	0
9	R	8536	0	8407	439	0
10	S	15974	0	16156	891	0
11	T	8041	0	7961	301	0
12	U	6569	0	6537	409	0
All	All	124700	0	123090	7598	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 31.

All (7598) 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)
9:I:576:PHE:CD1	9:I:576:PHE:CG	1.84	1.65
9:I:576:PHE:CG	9:I:576:PHE:CD2	1.83	1.64
6:F:612:GLN:HA	12:U:183:MET:CG	1.11	1.58
8:Q:869:ALA:CB	8:Q:895:LEU:CD2	1.84	1.54
6:F:612:GLN:CA	12:U:183:MET:HG2	1.41	1.50
6:F:576:PRO:CD	6:F:624:ALA:HA	1.38	1.49
6:F:607:LEU:HD13	6:F:615:LEU:CD2	1.44	1.43
8:Q:852:LEU:CD2	8:Q:868:LEU:HD11	1.46	1.43
8:H:232:PHE:CA	8:H:251:ARG:HB2	1.47	1.41
11:T:642:GLU:CA	11:T:642:GLU:C	1.86	1.41
6:F:376:TRP:O	6:F:633:LEU:CD1	1.69	1.38
8:Q:869:ALA:CB	8:Q:895:LEU:HD21	0.88	1.35
6:F:328:GLU:OE2	6:F:355:TYR:CE2	1.81	1.34
9:I:576:PHE:CE2	11:T:642:GLU:HA	1.62	1.33
6:F:383:CYS:CB	6:F:637:MET:SD	2.14	1.32
6:F:382:LEU:HD13	6:F:601:CYS:SG	1.71	1.29
6:F:353:HIS:CE1	6:F:389:GLN:O	1.86	1.29
6:F:600:VAL:CG2	6:F:623:SER:OG	1.80	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:614:ASP:OD2	6:F:616:CYS:SG	1.90	1.27
8:Q:869:ALA:HB3	8:Q:895:LEU:CD2	1.52	1.26
6:F:382:LEU:CD1	6:F:601:CYS:SG	2.22	1.26
6:F:576:PRO:HD2	6:F:624:ALA:CA	1.65	1.25
6:F:612:GLN:HB3	12:U:183:MET:O	1.31	1.25
8:Q:863:LYS:O	8:Q:867:ARG:HD3	1.26	1.25
9:I:576:PHE:CD2	11:T:642:GLU:HA	1.74	1.23
9:I:576:PHE:CE2	9:I:576:PHE:CZ	2.26	1.22
9:I:576:PHE:CE1	11:T:642:GLU:O	1.92	1.21
9:I:576:PHE:CZ	9:I:576:PHE:CE1	2.29	1.21
8:H:436:TRP:HD1	8:H:495:VAL:CG1	1.53	1.20
9:I:576:PHE:CE2	11:T:643:VAL:N	2.09	1.20
8:H:232:PHE:H	8:H:251:ARG:CA	1.51	1.20
6:F:328:GLU:CG	6:F:355:TYR:OH	1.92	1.17
6:F:383:CYS:SG	6:F:637:MET:HE3	1.84	1.16
6:F:612:GLN:HA	12:U:183:MET:HG3	1.20	1.15
6:F:353:HIS:NE2	6:F:389:GLN:O	1.79	1.15
6:F:383:CYS:SG	6:F:637:MET:HE2	1.88	1.14
8:Q:869:ALA:HB2	8:Q:895:LEU:HD21	1.26	1.13
6:F:376:TRP:O	6:F:633:LEU:HD13	1.31	1.13
6:F:576:PRO:CD	6:F:624:ALA:CA	2.23	1.12
6:F:328:GLU:OE2	6:F:355:TYR:CZ	2.02	1.12
6:F:380:TRP:CD1	6:F:633:LEU:HD12	1.82	1.12
9:I:576:PHE:CZ	11:T:642:GLU:C	2.24	1.11
9:I:576:PHE:CE2	11:T:642:GLU:CA	2.33	1.11
6:F:612:GLN:CA	12:U:183:MET:CG	2.07	1.11
6:F:383:CYS:SG	6:F:637:MET:SD	1.20	1.10
9:I:576:PHE:CD2	11:T:643:VAL:N	2.19	1.10
6:F:600:VAL:HG23	6:F:623:SER:OG	1.49	1.09
6:F:607:LEU:HD13	6:F:615:LEU:HD21	1.09	1.09
9:I:576:PHE:CE1	11:T:642:GLU:C	2.26	1.09
8:H:436:TRP:CD1	8:H:495:VAL:CG1	2.34	1.09
9:I:576:PHE:CD1	9:I:576:PHE:CE1	2.41	1.09
8:Q:817:GLY:O	8:Q:879:LEU:HG	1.53	1.09
8:H:232:PHE:HA	8:H:251:ARG:CB	1.83	1.08
9:I:576:PHE:CD2	9:I:576:PHE:CE2	2.42	1.08
9:I:576:PHE:CD1	11:T:642:GLU:O	2.06	1.08
6:F:600:VAL:HG21	6:F:623:SER:OG	1.54	1.07
8:H:232:PHE:H	8:H:251:ARG:HA	1.08	1.07
9:I:576:PHE:CD1	11:T:642:GLU:C	2.26	1.07
6:F:386:LEU:O	6:F:608:TYR:CE1	2.07	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:852:LEU:CD2	8:Q:868:LEU:CD1	2.32	1.07
8:Q:863:LYS:O	8:Q:867:ARG:CD	2.03	1.07
6:F:576:PRO:HD3	6:F:624:ALA:HA	1.31	1.06
9:I:576:PHE:CD2	11:T:642:GLU:C	2.29	1.06
6:F:607:LEU:CD1	6:F:615:LEU:HD21	1.86	1.06
8:H:436:TRP:CD1	8:H:495:VAL:HG13	1.92	1.05
3:C:240:VAL:HG12	3:C:246:ARG:HH21	1.21	1.04
6:F:380:TRP:N	6:F:633:LEU:HD11	1.69	1.04
6:F:383:CYS:SG	6:F:637:MET:CE	1.13	1.03
6:F:607:LEU:CD1	6:F:615:LEU:CD2	2.36	1.03
9:I:576:PHE:CE2	11:T:642:GLU:C	2.30	1.03
1:A:26:SER:O	1:A:33:LEU:HB2	1.58	1.03
8:H:232:PHE:H	8:H:251:ARG:CB	1.71	1.03
9:I:576:PHE:CG	11:T:642:GLU:C	2.32	1.03
6:F:328:GLU:OE2	6:F:355:TYR:OH	1.77	1.02
6:F:613:TYR:O	12:U:183:MET:CE	2.08	1.02
8:Q:869:ALA:HB1	8:Q:895:LEU:HD21	1.03	1.02
8:Q:134:GLN:HE21	12:U:163:GLU:HB2	1.23	1.01
9:I:576:PHE:CD2	11:T:642:GLU:CA	2.42	1.01
12:U:171:GLY:H	12:U:542:PRO:HD2	1.22	1.01
8:H:209:VAL:HB	8:H:264:TRP:HZ2	1.24	1.00
9:I:576:PHE:CZ	11:T:642:GLU:N	2.30	1.00
8:H:436:TRP:CZ3	8:H:504:HIS:CD2	2.51	0.99
9:I:576:PHE:CG	11:T:642:GLU:HB3	1.96	0.99
2:B:114:GLN:HE21	2:B:158:ARG:HA	1.28	0.98
8:Q:852:LEU:HD23	8:Q:868:LEU:CD1	1.92	0.98
9:I:576:PHE:CZ	11:T:642:GLU:CA	2.46	0.98
6:O:602:VAL:HG12	6:O:606:LYS:HZ2	1.26	0.98
6:O:592:LYS:HA	6:O:596:LEU:HD12	1.46	0.97
8:Q:359:ARG:HH22	12:U:32:ASN:H	1.03	0.97
2:B:185:THR:HG1	2:B:195:TRP:HH2	1.07	0.97
6:F:380:TRP:CG	6:F:633:LEU:HD12	1.99	0.97
6:F:380:TRP:CZ2	6:F:633:LEU:HA	1.99	0.97
8:H:436:TRP:CZ3	8:H:504:HIS:HD2	1.82	0.97
6:F:382:LEU:HD12	6:F:601:CYS:SG	2.02	0.97
6:F:328:GLU:HG2	6:F:355:TYR:OH	1.61	0.96
8:H:232:PHE:N	8:H:251:ARG:HB2	1.78	0.96
6:F:592:LYS:HA	6:F:596:LEU:HD12	1.46	0.96
5:E:145:ASP:HA	5:E:167:PRO:HB3	1.48	0.96
6:F:333:THR:HG23	6:F:346:ASN:HB2	1.46	0.96
8:Q:355:ARG:NH2	8:Q:359:ARG:HE	1.64	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:232:PHE:CA	8:H:251:ARG:CB	2.41	0.95
8:H:355:ARG:NH2	8:H:359:ARG:HE	1.65	0.95
6:F:380:TRP:H	6:F:633:LEU:HD11	1.28	0.95
6:F:573:PRO:HB2	6:F:599:ASP:HB2	1.49	0.94
12:U:814:GLN:NE2	12:U:815:MET:SD	2.40	0.94
6:F:328:GLU:OE2	6:F:355:TYR:HE2	1.30	0.94
8:H:232:PHE:N	8:H:251:ARG:CB	2.29	0.94
6:F:575:PRO:HG3	6:F:597:GLN:CD	1.87	0.94
2:K:23:SER:HB2	2:K:354:LEU:HG	1.48	0.94
8:Q:852:LEU:HD23	8:Q:868:LEU:HD11	0.95	0.94
8:Q:874:SER:N	8:Q:879:LEU:O	2.00	0.94
6:F:383:CYS:SG	6:F:637:MET:HE1	1.19	0.94
6:F:387:TRP:HB3	6:F:644:LEU:CD1	1.98	0.94
6:F:613:TYR:O	12:U:183:MET:HE1	1.66	0.93
6:F:576:PRO:HD2	6:F:624:ALA:HA	0.93	0.93
8:H:232:PHE:N	8:H:251:ARG:HA	1.84	0.93
9:I:576:PHE:CE1	11:T:642:GLU:CA	2.52	0.93
8:H:232:PHE:N	8:H:251:ARG:CA	2.33	0.92
1:J:74:GLU:HG2	2:K:245:ARG:HH22	1.32	0.92
8:Q:869:ALA:HB3	8:Q:895:LEU:HD21	0.93	0.92
8:H:436:TRP:HD1	8:H:495:VAL:HG11	1.34	0.92
7:P:20:GLN:HB3	7:P:65:TRP:HE1	1.35	0.91
10:S:1413:PHE:H	10:S:1417:ARG:HH21	1.16	0.91
6:F:575:PRO:HG3	6:F:597:GLN:OE1	1.70	0.91
8:Q:810:ASN:O	8:Q:814:PHE:HB2	1.69	0.91
12:U:763:ARG:HG3	12:U:774:ARG:HH22	1.35	0.91
2:B:346:LEU:H	2:B:364:ALA:HB2	1.34	0.91
8:H:436:TRP:CE3	8:H:504:HIS:HD2	1.88	0.90
3:L:287:ASN:HB2	3:L:292:VAL:HG12	1.53	0.90
6:F:328:GLU:CD	6:F:355:TYR:OH	2.09	0.90
4:M:539:LEU:HD21	9:R:131:MET:H	1.35	0.90
8:Q:754:TRP:HE1	8:Q:801:THR:HG1	1.17	0.90
6:O:602:VAL:HA	6:O:605:LEU:HD12	1.53	0.90
9:R:745:PRO:HB3	9:R:807:ILE:HA	1.51	0.90
3:C:243:LYS:HA	3:C:280:GLN:HA	1.53	0.90
1:J:490:ARG:NH1	2:K:25:SER:OG	2.04	0.89
9:I:643:HIS:HA	9:I:650:VAL:HG21	1.54	0.89
1:A:75:SER:HB2	1:A:374:HIS:HE1	1.38	0.89
8:H:232:PHE:HA	8:H:251:ARG:HB2	0.91	0.89
6:F:802:TYR:HA	6:F:805:TYR:HD2	1.33	0.89
7:G:18:ASP:HB3	7:G:20:GLN:HE22	1.37	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:252:PRO:HB2	3:C:255:LYS:HD2	1.53	0.89
6:F:379:THR:OG1	6:F:633:LEU:CD2	2.21	0.89
1:J:99:VAL:HB	1:J:103:ARG:HH12	1.37	0.89
4:D:892:GLN:NE2	4:D:916:CYS:SG	2.46	0.88
6:F:434:PRO:O	6:F:437:HIS:ND1	2.07	0.88
10:S:1457:VAL:HA	10:S:1460:LYS:HG2	1.54	0.88
10:S:322:SER:HB2	10:S:325:MET:HG2	1.54	0.88
6:F:576:PRO:HG2	6:F:624:ALA:O	1.73	0.88
3:L:306:LYS:HG2	3:L:316:ILE:HD13	1.55	0.88
3:L:293:LEU:HB3	3:L:305:TRP:HB2	1.56	0.87
9:R:883:ASP:HB3	9:R:887:ARG:HH12	1.37	0.87
6:F:602:VAL:HA	6:F:605:LEU:HD12	1.57	0.87
2:B:225:ASN:HB3	2:B:271:PRO:HB2	1.55	0.87
4:D:1074:LEU:HD11	4:D:1106:ARG:HH21	1.40	0.87
4:M:813:THR:OG1	4:M:817:GLN:NE2	2.07	0.87
8:Q:841:ARG:O	8:Q:845:LEU:HD23	1.72	0.87
10:S:314:LEU:HD21	10:S:330:ARG:HG2	1.57	0.87
11:T:642:GLU:C	11:T:642:GLU:HA	1.92	0.87
8:H:434:GLU:O	8:H:494:ARG:HB3	1.75	0.87
6:O:434:PRO:O	6:O:437:HIS:ND1	2.07	0.87
6:F:553:LEU:CD1	6:F:605:LEU:HB3	2.05	0.87
8:Q:359:ARG:NH2	12:U:32:ASN:H	1.72	0.87
7:P:179:ILE:HG22	7:P:195:ARG:HH12	1.40	0.86
6:F:612:GLN:C	12:U:183:MET:HG2	1.95	0.86
4:M:1337:LEU:HA	4:M:1340:TYR:HD2	1.41	0.86
2:B:226:GLN:HE21	2:B:229:VAL:HB	1.39	0.86
8:Q:874:SER:HB2	8:Q:879:LEU:HB3	1.57	0.86
1:J:58:ARG:HE	1:J:60:ASP:HB2	1.40	0.86
9:R:767:HIS:HD2	9:R:789:LEU:HD21	1.38	0.86
6:F:530:ASP:HB2	6:F:533:ARG:HG3	1.58	0.86
7:G:195:ARG:HH12	7:G:202:LYS:HE2	1.38	0.86
9:I:576:PHE:CD1	11:T:642:GLU:CB	2.59	0.86
9:I:576:PHE:CD1	11:T:642:GLU:HB3	2.11	0.86
6:O:530:ASP:HB2	6:O:533:ARG:HG3	1.58	0.86
9:R:143:SER:H	9:R:172:PRO:HG2	1.40	0.86
9:I:831:LEU:HB3	5:N:1:MET:HB2	1.57	0.85
2:K:16:ARG:HE	2:K:36:GLY:HA3	1.42	0.85
4:D:888:TYR:O	4:D:892:GLN:NE2	2.09	0.85
6:O:257:PRO:O	6:O:308:LYS:NZ	2.09	0.85
1:J:79:PHE:O	1:J:83:GLN:NE2	2.09	0.85
3:C:295:SER:O	3:C:302:VAL:HA	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:486:SER:HA	1:A:489:ILE:HD12	1.59	0.84
8:Q:852:LEU:HD21	8:Q:868:LEU:HD11	1.57	0.84
8:Q:869:ALA:HB3	8:Q:895:LEU:HD22	1.59	0.84
4:M:880:GLU:HG2	4:M:884:ARG:HE	1.43	0.84
12:U:579:ARG:NH1	12:U:625:GLU:OE1	2.09	0.84
9:I:472:LEU:O	9:I:474:GLU:N	2.08	0.84
12:U:483:LEU:HD22	12:U:486:THR:HG23	1.58	0.84
6:F:248:GLY:O	6:F:249:ARG:NH1	2.10	0.84
3:L:241:ALA:HB2	3:L:284:VAL:HG13	1.57	0.84
4:M:1340:TYR:HA	4:M:1345:LEU:HB2	1.57	0.84
8:Q:341:LEU:HD11	8:Q:353:ALA:HA	1.59	0.84
7:G:89:GLU:O	7:G:92:THR:N	2.09	0.84
9:R:778:ASP:HB2	9:R:781:LEU:HD13	1.59	0.84
1:J:490:ARG:HD3	2:K:25:SER:HA	1.59	0.84
8:H:764:LYS:HD3	8:H:766:THR:H	1.40	0.84
2:K:186:VAL:HG13	2:K:220:VAL:HB	1.58	0.84
4:M:840:PHE:HB3	4:M:846:SER:HA	1.57	0.83
4:M:1338:ARG:NH1	4:M:1339:LEU:HD23	1.91	0.83
8:H:319:PRO:O	8:H:323:LYS:N	2.12	0.83
6:F:379:THR:OG1	6:F:633:LEU:HD22	1.78	0.83
2:K:241:ILE:HB	2:K:252:SER:HB2	1.58	0.83
3:L:287:ASN:HB3	3:L:291:THR:H	1.43	0.83
8:Q:319:PRO:O	8:Q:323:LYS:N	2.12	0.83
7:G:35:ARG:HB3	7:G:54:ARG:HH12	1.44	0.83
4:D:1411:LEU:HA	4:D:1414:LYS:HD2	1.60	0.83
6:F:333:THR:CG2	6:F:346:ASN:HB2	2.08	0.83
9:I:1122:SER:HB2	9:R:573:ALA:HA	1.59	0.83
9:I:1075:ASP:HB3	9:I:1078:GLU:HG2	1.59	0.83
7:P:67:HIS:CD2	7:P:114:HIS:HB3	2.14	0.83
6:F:553:LEU:HD11	6:F:605:LEU:HB2	1.59	0.83
7:P:87:LYS:HE3	7:P:96:THR:HB	1.60	0.83
6:F:380:TRP:CH2	6:F:633:LEU:HA	2.14	0.83
8:H:605:ASP:HB3	8:H:608:GLN:HG2	1.58	0.83
4:D:891:LEU:HD21	4:D:912:MET:HG2	1.61	0.83
6:F:612:GLN:HB2	12:U:187:ARG:HG3	1.58	0.83
9:I:576:PHE:CG	11:T:642:GLU:CA	2.62	0.83
3:C:287:ASN:ND2	3:C:289:THR:OG1	2.11	0.83
8:H:436:TRP:CB	8:H:495:VAL:HG13	2.09	0.83
9:I:576:PHE:CD1	11:T:642:GLU:CA	2.61	0.82
4:M:1185:GLU:HA	4:M:1188:LEU:HD12	1.60	0.82
2:B:197:LEU:HB3	2:B:198:ARG:HH21	1.44	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:376:TRP:O	6:F:633:LEU:HD11	1.77	0.82
4:M:342:HIS:CD2	4:M:361:LEU:HA	2.15	0.82
8:Q:180:LEU:HB2	8:Q:201:LEU:HD13	1.61	0.82
10:S:1044:ARG:HD3	10:S:1094:HIS:HA	1.61	0.82
4:D:1328:TYR:HA	4:D:1331:MET:HE2	1.61	0.82
6:F:259:TRP:HE1	6:F:666:GLU:HG3	1.42	0.82
6:F:383:CYS:CB	6:F:637:MET:CE	2.51	0.82
8:Q:888:MET:SD	8:Q:889:ARG:NH1	2.53	0.82
6:F:350:THR:HA	6:F:353:HIS:HB2	1.61	0.82
7:P:211:SER:H	7:P:238:ARG:HH21	1.24	0.82
1:A:4:LEU:HB2	3:C:308:ASN:HA	1.59	0.82
2:B:284:TRP:HA	2:B:338:THR:O	1.78	0.82
6:F:596:LEU:O	6:F:597:GLN:O	1.97	0.82
8:H:436:TRP:CE3	8:H:504:HIS:CD2	2.67	0.81
4:M:1292:ILE:HG23	4:M:1327:ARG:HH12	1.44	0.81
8:Q:146:MET:HE1	8:Q:539:ARG:HH22	1.45	0.81
12:U:406:GLU:HG3	12:U:414:TYR:HB2	1.62	0.81
6:F:553:LEU:CD1	6:F:605:LEU:CB	2.58	0.81
8:H:209:VAL:HB	8:H:264:TRP:CZ2	2.12	0.81
8:H:355:ARG:NH2	8:H:358:LYS:HG3	1.94	0.81
4:M:1141:ILE:O	4:M:1177:LEU:N	2.13	0.81
10:S:531:LEU:HD11	10:S:551:SER:HA	1.61	0.81
6:F:673:TRP:HA	6:F:676:PHE:CE2	2.14	0.81
9:I:723:HIS:O	9:I:727:GLN:NE2	2.13	0.81
4:D:1128:LEU:O	4:D:1132:ARG:NH1	2.13	0.81
6:O:446:THR:HA	6:O:537:ILE:HD11	1.63	0.81
9:R:178:TYR:HB3	9:R:189:ILE:HB	1.62	0.81
2:B:143:SER:HB2	2:B:151:ASN:HB2	1.61	0.81
4:M:464:LEU:HD21	4:M:535:TYR:HA	1.63	0.81
12:U:614:ALA:HB2	12:U:629:LEU:HD23	1.62	0.81
1:J:576:LEU:HD22	1:J:609:LYS:HE3	1.63	0.81
12:U:339:VAL:HG22	12:U:350:LYS:HG2	1.63	0.81
3:L:85:VAL:O	3:L:106:ARG:N	2.12	0.81
6:O:311:LEU:HD21	6:O:627:ASP:HB3	1.63	0.81
6:O:356:ALA:HB1	6:O:360:ARG:HH12	1.45	0.81
6:O:515:TRP:O	6:O:522:SER:HA	1.81	0.81
10:S:756:TRP:HE1	10:S:839:LEU:HB2	1.46	0.81
10:S:1428:LEU:HB3	10:S:1501:ARG:HH21	1.44	0.81
1:J:411:HIS:HB2	1:J:414:LEU:HB2	1.63	0.81
10:S:1202:PHE:HB3	10:S:1207:ILE:HD11	1.62	0.81
8:Q:355:ARG:NH2	8:Q:358:LYS:HG3	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:185:TYR:HB3	12:U:189:MET:HE1	1.64	0.80
3:C:62:ARG:NH1	3:C:77:CYS:SG	2.54	0.80
6:F:446:THR:HA	6:F:537:ILE:HD11	1.63	0.80
6:O:734:ARG:HG2	6:O:735:ARG:HH21	1.45	0.80
1:A:438:GLU:OE1	3:C:67:HIS:NE2	2.14	0.80
10:S:1097:PHE:HD2	10:S:1109:GLN:HB3	1.45	0.80
1:A:10:GLU:OE1	3:C:320:LYS:NZ	2.15	0.80
6:F:576:PRO:HD2	6:F:624:ALA:C	2.01	0.80
6:F:612:GLN:HG2	12:U:186:ALA:HB3	1.60	0.80
9:R:115:ASP:OD1	9:R:116:ARG:NH1	2.13	0.80
1:A:450:LYS:NZ	2:B:268:PRO:O	2.14	0.80
1:A:567:ALA:O	1:A:605:ARG:NH2	2.15	0.80
8:H:436:TRP:CG	8:H:495:VAL:HG13	2.16	0.80
9:I:576:PHE:CG	11:T:642:GLU:CB	2.65	0.80
1:J:106:ARG:NH2	1:J:148:GLU:OE1	2.14	0.80
6:O:271:ARG:HH22	6:O:305:HIS:H	1.30	0.80
10:S:926:ILE:HD12	10:S:929:LYS:HD3	1.63	0.80
6:O:695:LEU:HD13	6:O:728:ALA:HB2	1.64	0.80
10:S:784:TYR:HB3	10:S:791:GLU:HB3	1.63	0.80
6:F:387:TRP:HB3	6:F:644:LEU:HD13	1.63	0.79
1:J:503:ARG:HA	1:J:506:LYS:HZ3	1.48	0.79
10:S:1144:MET:HB2	10:S:1167:PHE:HB2	1.62	0.79
8:Q:868:LEU:HD23	8:Q:868:LEU:O	1.83	0.79
8:Q:603:ILE:O	8:Q:609:ARG:NH1	2.15	0.79
1:A:22:HIS:HB2	1:A:41:LYS:HA	1.64	0.79
4:D:1074:LEU:HD21	4:D:1106:ARG:HE	1.45	0.79
6:F:515:TRP:O	6:F:522:SER:HA	1.81	0.79
9:I:1081:LYS:O	9:I:1087:LYS:NZ	2.16	0.79
3:L:106:ARG:NH2	3:L:149:ASN:OD1	2.16	0.79
6:O:693:GLU:HA	6:O:696:ASN:HD22	1.47	0.79
8:Q:869:ALA:HB1	8:Q:895:LEU:CD2	1.81	0.79
3:L:247:ILE:HB	3:L:272:ALA:HB3	1.63	0.79
7:P:88:GLU:HB2	7:P:93:TRP:CE2	2.16	0.79
5:E:104:ILE:HB	5:E:120:ILE:HB	1.65	0.79
8:Q:359:ARG:HH22	12:U:32:ASN:N	1.80	0.79
10:S:493:LYS:HG3	10:S:497:GLN:HE22	1.48	0.79
12:U:104:ASN:O	12:U:108:ASN:ND2	2.16	0.79
4:M:449:ALA:HB3	4:M:456:PRO:HA	1.64	0.79
6:O:328:GLU:OE2	6:O:636:HIS:ND1	2.14	0.79
2:B:43:ASN:ND2	2:B:76:GLY:O	2.16	0.79
6:F:356:ALA:HB1	6:F:360:ARG:HH12	1.45	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:12:HIS:ND1	7:G:14:ASP:O	2.14	0.79
6:O:796:GLU:HA	6:O:800:LYS:HG2	1.62	0.79
12:U:357:ILE:HA	12:U:362:ARG:HH22	1.47	0.79
4:D:689:ASP:HB2	4:D:874:PRO:HB2	1.63	0.79
8:H:355:ARG:HH21	8:H:359:ARG:HE	1.30	0.79
1:A:58:ARG:HB2	1:A:61:GLU:HG3	1.65	0.78
6:F:563:GLN:HE22	6:F:568:PRO:HA	1.48	0.78
9:I:1067:TRP:HZ3	9:I:1127:SER:HB2	1.47	0.78
1:J:631:GLU:HG3	1:J:634:ARG:HH21	1.46	0.78
9:R:559:PRO:HD2	9:R:677:ARG:HE	1.48	0.78
6:F:379:THR:OG1	6:F:633:LEU:CD1	2.31	0.78
11:T:68:TYR:OH	11:T:115:LYS:NZ	2.15	0.78
8:Q:416:ARG:HH22	8:Q:432:VAL:HB	1.49	0.78
8:Q:852:LEU:HD21	8:Q:868:LEU:CD1	2.11	0.78
4:D:1087:HIS:HA	4:D:1092:ASN:HD21	1.46	0.78
10:S:255:LYS:HA	10:S:321:LYS:HZ3	1.46	0.78
3:C:12:LYS:NZ	3:C:33:ASP:OD1	2.15	0.78
6:F:793:GLN:OE1	8:Q:492:LYS:NZ	2.16	0.78
3:L:25:ARG:HB3	3:L:26:ARG:HH21	1.49	0.78
8:Q:875:GLU:HB3	8:Q:880:TYR:CD2	2.19	0.78
9:R:344:ILE:HB	9:R:363:VAL:HB	1.64	0.78
12:U:763:ARG:NH1	12:U:767:SER:OG	2.16	0.78
6:F:613:TYR:O	12:U:183:MET:HE3	1.82	0.78
8:H:628:LYS:HE3	8:H:675:GLN:HE21	1.48	0.78
8:Q:283:TYR:O	8:Q:336:ARG:NH1	2.17	0.78
7:G:233:CYS:HB2	7:G:264:VAL:HG12	1.64	0.78
9:I:946:ARG:HB2	9:I:1008:PRO:HB3	1.64	0.78
4:M:1195:LEU:HA	4:M:1198:HIS:CE1	2.19	0.78
6:F:607:LEU:HD22	6:F:618:LEU:HD11	1.64	0.78
7:G:77:CYS:HB2	7:G:106:VAL:HG23	1.66	0.78
4:M:1102:GLU:OE2	4:M:1106:ARG:NH1	2.17	0.78
4:D:1070:ARG:HD2	4:D:1149:VAL:HG11	1.66	0.78
6:O:839:VAL:HG12	6:O:853:GLN:HE22	1.48	0.78
2:B:222:ARG:HD2	2:B:227:GLN:HB2	1.65	0.77
8:Q:690:PHE:HD1	8:Q:695:LYS:HE2	1.47	0.77
6:F:686:VAL:HG23	7:G:167:LEU:HD22	1.65	0.77
1:A:479:ARG:NH2	3:C:90:VAL:O	2.17	0.77
5:E:153:ASP:HB3	5:E:159:ILE:HD11	1.66	0.77
6:O:563:GLN:HE22	6:O:568:PRO:HA	1.48	0.77
9:R:500:ILE:H	9:R:503:ASP:HB3	1.49	0.77
1:A:19:GLN:NE2	3:C:4:ALA:O	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:3:ASP:OD2	2:B:372:ARG:N	2.15	0.77
8:H:266:GLU:OE2	8:H:441:TRP:NE1	2.17	0.77
9:I:761:SER:OG	9:I:765:ARG:NH1	2.17	0.77
8:Q:147:TYR:HE1	8:Q:539:ARG:HG3	1.49	0.77
12:U:207:ASP:OD1	12:U:208:LEU:N	2.17	0.77
2:B:179:ARG:NH1	2:B:180:THR:OG1	2.17	0.77
7:G:197:GLU:O	7:G:202:LYS:NZ	2.16	0.77
9:I:642:HIS:HA	9:I:645:LYS:HG2	1.67	0.77
1:J:432:TYR:O	1:J:436:HIS:ND1	2.16	0.77
6:O:328:GLU:OE2	6:O:355:TYR:OH	2.03	0.77
4:D:1135:ARG:HD3	4:D:1137:GLU:H	1.49	0.77
8:H:283:TYR:O	8:H:336:ARG:NH1	2.17	0.77
8:Q:355:ARG:HH21	8:Q:359:ARG:HE	1.30	0.77
12:U:499:GLU:O	12:U:501:LYS:NZ	2.17	0.77
12:U:730:GLU:OE1	12:U:731:ARG:NH1	2.18	0.77
3:C:145:PRO:HD2	3:C:152:GLN:HE21	1.50	0.77
8:H:736:ARG:HG2	8:H:822:ASP:HA	1.66	0.77
8:Q:266:GLU:OE2	8:Q:441:TRP:NE1	2.17	0.77
10:S:991:SER:O	10:S:998:ASN:ND2	2.17	0.77
5:E:28:ASP:OD1	5:E:85:ARG:NH2	2.18	0.77
6:F:910:ARG:O	6:F:913:THR:OG1	2.03	0.77
3:L:305:TRP:HA	3:L:314:LYS:O	1.85	0.77
6:F:353:HIS:HE1	6:F:389:GLN:O	1.66	0.76
8:Q:808:ILE:O	8:Q:812:LEU:HB2	1.85	0.76
12:U:125:ALA:O	12:U:129:HIS:ND1	2.16	0.76
6:F:607:LEU:HD13	6:F:615:LEU:HD22	1.60	0.76
7:G:133:THR:O	7:G:140:TRP:HA	1.84	0.76
7:G:183:VAL:HG12	7:G:193:ILE:HD12	1.67	0.76
1:J:501:SER:HA	1:J:504:PHE:HD2	1.50	0.76
2:K:268:PRO:HG2	2:K:355:GLY:H	1.51	0.76
4:M:205:PRO:HG2	4:M:254:ILE:HD12	1.65	0.76
4:D:1231:CYS:SG	4:D:1232:GLN:NE2	2.58	0.76
6:F:607:LEU:HD13	6:F:615:LEU:HD23	1.64	0.76
1:J:634:ARG:HH12	4:M:1132:ARG:HG3	1.49	0.76
5:N:170:SER:HB2	5:N:184:ALA:HB3	1.67	0.76
2:B:8:LYS:HE2	2:B:65:ASP:HA	1.66	0.76
2:B:179:ARG:NH2	2:B:181:THR:OG1	2.19	0.76
2:B:239:LEU:HD23	2:B:254:LEU:HD12	1.68	0.76
6:F:387:TRP:CB	6:F:644:LEU:CD1	2.64	0.76
3:L:67:HIS:HB2	3:L:70:PHE:HD2	1.50	0.76
3:L:281:VAL:HA	3:L:297:GLY:HA2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:820:MET:O	10:S:899:TYR:OH	2.02	0.76
8:H:331:ARG:NH1	8:H:332:GLU:OE2	2.18	0.76
4:M:1225:ASP:HA	4:M:1228:ILE:HD12	1.67	0.76
6:O:263:HIS:O	6:O:271:ARG:NH2	2.19	0.76
6:O:385:SER:O	6:O:409:ARG:NH1	2.18	0.76
6:O:681:ILE:O	6:O:687:ARG:NH1	2.18	0.76
8:Q:331:ARG:NH1	8:Q:332:GLU:OE2	2.18	0.76
2:B:11:SER:HA	2:B:365:GLU:HG3	1.67	0.76
2:B:21:PRO:HD3	2:B:83:PHE:HD2	1.51	0.76
1:J:22:HIS:ND1	1:J:37:THR:OG1	2.19	0.76
6:F:324:PRO:HB3	6:F:355:TYR:HE1	1.51	0.76
7:P:180:LYS:O	7:P:195:ARG:NH1	2.18	0.76
2:B:96:GLY:O	2:B:128:ARG:NH2	2.18	0.76
6:F:399:GLU:HB2	6:F:404:VAL:HG11	1.68	0.76
4:D:800:LEU:HD21	4:D:968:LEU:HD21	1.68	0.75
8:H:416:ARG:HH22	8:H:432:VAL:HB	1.48	0.75
8:H:534:LEU:HB2	8:H:537:LEU:HD13	1.68	0.75
4:M:914:ALA:HB2	4:M:929:CYS:HB2	1.66	0.75
6:O:288:LEU:HD12	6:O:298:THR:HG22	1.67	0.75
6:O:399:GLU:HB2	6:O:404:VAL:HG11	1.69	0.75
6:O:438:ILE:HG21	6:O:501:GLU:HG2	1.68	0.75
11:T:22:ALA:HB1	11:T:53:GLN:HG2	1.67	0.75
11:T:837:MET:H	11:T:840:GLN:HE21	1.34	0.75
8:H:244:ILE:O	8:H:248:LEU:HG	1.87	0.75
9:R:193:THR:HA	9:R:233:GLN:HG2	1.66	0.75
12:U:284:LEU:HD22	12:U:287:VAL:HB	1.69	0.75
9:I:746:GLU:H	9:I:807:ILE:HA	1.50	0.75
4:M:525:GLN:OE1	9:R:61:VAL:HA	1.87	0.75
11:T:861:LEU:HD22	11:T:866:PRO:HG3	1.68	0.75
6:F:331:ASN:OD1	6:F:347:PRO:HA	1.87	0.75
6:F:342:HIS:NE2	6:F:682:GLN:OE1	2.19	0.75
6:F:387:TRP:HB3	6:F:644:LEU:HD11	1.67	0.75
6:F:795:TRP:CZ3	6:F:799:GLY:HA3	2.22	0.75
6:F:886:VAL:O	6:F:889:ARG:NH1	2.20	0.75
3:L:304:LEU:O	3:L:316:ILE:N	2.19	0.75
5:N:256:MET:H	5:N:270:THR:HG22	1.52	0.75
10:S:1750:LEU:O	10:S:1754:GLN:NE2	2.19	0.75
4:M:1092:ASN:HB3	4:M:1095:LYS:HB2	1.69	0.75
9:R:612:THR:HG21	9:R:744:GLU:HG3	1.67	0.75
3:C:306:LYS:HB2	3:C:316:ILE:HD13	1.68	0.75
4:D:1083:LEU:O	4:D:1087:HIS:ND1	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:604:THR:O	8:H:609:ARG:NH2	2.20	0.75
8:H:896:ARG:HG2	9:I:922:LEU:HD22	1.67	0.75
6:O:734:ARG:NH2	7:P:68:PRO:O	2.18	0.75
7:P:84:ILE:HA	7:P:95:LYS:NZ	2.02	0.75
4:D:996:GLN:HB3	4:D:1000:ARG:HH12	1.50	0.75
6:F:594:ILE:HG13	6:F:595:SER:H	1.52	0.75
7:G:81:ARG:HB3	7:G:102:HIS:HB2	1.69	0.75
4:M:355:LEU:HB3	4:M:374:LEU:HD12	1.68	0.75
8:Q:244:ILE:O	8:Q:248:LEU:HG	1.87	0.75
9:R:582:ILE:HG22	9:R:586:GLN:HE22	1.52	0.75
10:S:1342:ALA:O	10:S:1346:GLN:NE2	2.18	0.75
5:E:219:ARG:HB2	5:E:264:GLU:HB3	1.68	0.75
1:J:453:ARG:O	1:J:457:GLN:NE2	2.19	0.75
3:L:120:LYS:NZ	3:L:121:PHE:O	2.19	0.75
3:L:138:VAL:O	3:L:140:ARG:NH1	2.20	0.75
4:M:452:ASP:OD2	4:M:525:GLN:NE2	2.19	0.75
6:O:515:TRP:HB3	6:O:523:ILE:HB	1.68	0.75
6:O:607:LEU:O	6:O:611:ARG:NH1	2.19	0.75
8:Q:404:ARG:NH1	8:Q:468:GLU:O	2.20	0.75
4:M:1385:TYR:HA	4:M:1388:ILE:HD12	1.68	0.74
8:Q:867:ARG:O	8:Q:871:ILE:HG22	1.87	0.74
2:B:41:GLU:H	2:B:44:LYS:HZ1	1.34	0.74
2:B:49:ALA:O	2:B:66:PRO:HA	1.87	0.74
6:F:438:ILE:HG21	6:F:501:GLU:HG2	1.68	0.74
3:L:26:ARG:NH2	3:L:41:LYS:O	2.19	0.74
4:M:154:LEU:HD13	4:M:229:PHE:HE1	1.50	0.74
8:Q:365:ARG:NH1	8:Q:415:GLU:OE2	2.20	0.74
10:S:1372:GLY:HA3	10:S:1457:VAL:H	1.52	0.74
4:D:1141:ILE:O	4:D:1176:ILE:HA	1.87	0.74
6:O:594:ILE:HG13	6:O:595:SER:H	1.52	0.74
10:S:462:CYS:HG	10:S:496:ARG:HH22	1.35	0.74
10:S:1505:VAL:O	10:S:1507:ARG:NH1	2.20	0.74
2:B:73:LYS:HE3	6:O:281:ASP:HA	1.69	0.74
6:F:634:SER:HB3	6:F:638:TRP:CZ3	2.23	0.74
8:H:903:LEU:O	9:I:895:ARG:NH1	2.19	0.74
2:K:86:LYS:O	2:K:103:HIS:NE2	2.19	0.74
5:N:128:ASN:H	5:N:144:GLY:HA2	1.53	0.74
8:Q:809:TYR:O	8:Q:813:LEU:N	2.21	0.74
11:T:505:GLY:HA2	11:T:508:LEU:HB2	1.68	0.74
1:A:498:THR:HG22	1:A:532:ARG:H	1.52	0.74
3:C:247:ILE:HB	3:C:272:ALA:HB3	1.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:753:ASN:OD1	6:F:757:LYS:NZ	2.17	0.74
8:H:404:ARG:NH1	8:H:468:GLU:O	2.20	0.74
8:H:820:MET:O	8:H:841:ARG:NH1	2.20	0.74
6:O:560:PHE:O	6:O:592:LYS:NZ	2.20	0.74
2:B:13:LYS:O	2:B:40:ASN:ND2	2.21	0.74
1:J:104:ASN:ND2	2:K:323:CYS:SG	2.60	0.74
1:A:567:ALA:HB3	1:A:572:TRP:HE1	1.51	0.74
6:F:265:GLY:HA2	7:G:304:LYS:HA	1.69	0.74
6:F:560:PHE:O	6:F:592:LYS:NZ	2.20	0.74
8:H:763:GLN:HE21	8:H:790:PHE:HA	1.50	0.74
6:O:331:ASN:O	6:O:346:ASN:N	2.20	0.74
8:Q:801:THR:HG22	8:Q:805:LYS:HE3	1.69	0.74
1:A:444:THR:HG21	1:A:447:LYS:HE2	1.70	0.74
2:B:274:LEU:HB2	2:B:286:TRP:HB3	1.70	0.74
4:D:1137:GLU:O	6:F:850:ARG:NH1	2.20	0.74
6:F:600:VAL:HG23	6:F:623:SER:CB	2.17	0.74
8:H:167:GLU:OE1	8:H:168:GLN:NE2	2.21	0.74
9:I:576:PHE:CE1	11:T:642:GLU:N	2.55	0.74
6:O:410:ARG:NE	6:O:549:VAL:HG22	2.02	0.74
10:S:929:LYS:H	10:S:929:LYS:HD2	1.52	0.74
8:H:591:LEU:O	8:H:595:GLN:NE2	2.20	0.74
6:O:842:ILE:HG22	6:O:843:GLN:H	1.50	0.74
7:P:72:ASN:HB2	7:P:88:GLU:HB3	1.70	0.74
8:Q:690:PHE:CD1	8:Q:695:LYS:HE2	2.23	0.74
11:T:836:VAL:HB	11:T:840:GLN:NE2	2.02	0.74
1:J:73:ASN:HA	1:J:76:HIS:CE1	2.23	0.74
9:R:808:ASP:OD1	9:R:815:ARG:NH2	2.19	0.74
1:A:41:LYS:NZ	1:A:44:ASN:OD1	2.20	0.73
1:A:445:GLU:O	2:B:25:SER:OG	2.06	0.73
3:C:56:HIS:ND1	3:C:80:ASP:OD2	2.17	0.73
3:C:304:LEU:O	3:C:316:ILE:N	2.21	0.73
6:F:380:TRP:CG	6:F:633:LEU:CD1	2.71	0.73
8:H:365:ARG:NH1	8:H:415:GLU:OE2	2.20	0.73
10:S:730:GLU:O	10:S:734:GLN:NE2	2.21	0.73
1:A:310:LEU:HD11	1:A:317:VAL:HG12	1.70	0.73
3:C:86:TRP:HA	3:C:104:VAL:O	1.88	0.73
4:M:1395:LEU:HB3	4:M:1408:LEU:HD21	1.70	0.73
2:B:135:VAL:HB	2:B:142:VAL:HB	1.69	0.73
6:F:634:SER:HB3	6:F:638:TRP:HZ3	1.53	0.73
8:H:436:TRP:HB3	8:H:498:GLU:CD	2.08	0.73
10:S:1062:GLN:O	10:S:1066:GLN:NE2	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1478:GLU:OE1	10:S:1520:TYR:OH	2.06	0.73
7:G:195:ARG:CZ	7:G:202:LYS:HB2	2.17	0.73
8:H:736:ARG:HH12	8:H:816:ASP:HB2	1.52	0.73
9:I:876:PHE:HB3	9:I:879:GLN:HB2	1.70	0.73
1:J:97:GLN:HA	2:K:320:SER:HB3	1.69	0.73
1:J:299:MET:CE	1:J:305:PHE:HB2	2.18	0.73
7:P:77:CYS:HB2	7:P:106:VAL:HG13	1.71	0.73
7:P:235:GLN:HB2	7:P:263:VAL:HG22	1.71	0.73
8:Q:533:LEU:HA	8:Q:537:LEU:HD22	1.69	0.73
2:B:84:LEU:HD11	2:B:139:PRO:HA	1.70	0.73
4:D:1340:TYR:HE2	4:D:1352:LEU:HD11	1.52	0.73
7:G:85:ILE:HB	7:G:97:TYR:O	1.88	0.73
8:Q:134:GLN:NE2	12:U:163:GLU:HB2	2.01	0.73
2:B:150:ILE:HB	2:B:164:ILE:HB	1.69	0.73
6:F:410:ARG:NE	6:F:549:VAL:HG22	2.02	0.73
6:F:553:LEU:HD11	6:F:605:LEU:CB	2.18	0.73
9:I:467:GLU:OE1	9:I:474:GLU:OE2	2.06	0.73
4:M:1337:LEU:HA	4:M:1340:TYR:CD2	2.23	0.73
7:P:62:GLN:HE22	7:P:64:ALA:HB2	1.53	0.73
1:A:514:PHE:HZ	1:A:539:TYR:HD2	1.36	0.73
7:G:267:VAL:HG12	7:G:278:VAL:HG22	1.70	0.73
4:M:1250:ILE:HD13	4:M:1316:HIS:HD1	1.52	0.73
10:S:1131:SER:HB3	10:S:1135:ARG:HH12	1.54	0.73
12:U:46:LYS:O	12:U:49:THR:OG1	2.05	0.73
8:H:634:THR:O	8:H:637:LYS:NZ	2.20	0.73
6:O:701:VAL:H	6:O:732:ARG:HE	1.36	0.73
1:A:631:GLU:HG3	1:A:634:ARG:NH1	2.04	0.73
3:C:287:ASN:HB3	3:C:292:VAL:HB	1.71	0.73
4:D:66:LEU:HD23	4:D:132:ILE:HG12	1.69	0.73
9:I:167:LEU:HB2	9:I:179:TRP:HB2	1.71	0.73
1:J:486:SER:HB3	1:J:490:ARG:HH12	1.51	0.73
6:O:568:PRO:O	6:O:587:ASP:N	2.22	0.73
6:O:692:ARG:O	6:O:696:ASN:ND2	2.22	0.73
8:Q:265:LEU:HA	8:Q:268:ILE:HD12	1.71	0.73
10:S:511:LEU:HB3	10:S:515:ARG:HH22	1.52	0.73
10:S:884:ASN:ND2	10:S:889:LYS:O	2.21	0.73
10:S:1104:ILE:HG22	10:S:1108:ASN:HD21	1.53	0.73
4:D:725:ARG:NH2	4:D:729:CYS:SG	2.62	0.73
6:F:572:TYR:OH	6:F:598:ARG:NH1	2.16	0.73
8:H:131:VAL:HG13	10:S:1507:ARG:HG2	1.70	0.73
9:I:632:LYS:HE2	9:I:679:VAL:HG23	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:841:ARG:O	8:Q:845:LEU:CD2	2.35	0.73
6:F:335:ASP:O	6:F:342:HIS:N	2.22	0.72
6:F:515:TRP:HB3	6:F:523:ILE:HB	1.69	0.72
2:K:74:HIS:HD2	2:K:78:VAL:HG22	1.52	0.72
8:Q:452:VAL:O	8:Q:456:ILE:HG12	1.89	0.72
10:S:1477:MET:HA	10:S:1480:VAL:HG22	1.70	0.72
3:C:55:THR:HG23	3:C:86:TRP:HE1	1.52	0.72
6:F:575:PRO:CG	6:F:597:GLN:CD	2.57	0.72
9:I:544:ASP:HB3	9:I:622:THR:HG21	1.71	0.72
1:J:93:SER:O	1:J:97:GLN:NE2	2.22	0.72
1:J:369:TRP:NE1	1:J:403:ASP:OD2	2.22	0.72
4:M:281:PRO:O	4:M:304:GLN:NE2	2.21	0.72
3:C:242:THR:OG1	3:C:246:ARG:NH1	2.23	0.72
8:H:265:LEU:HA	8:H:268:ILE:HD12	1.71	0.72
7:P:83:VAL:HG12	7:P:85:ILE:HD11	1.70	0.72
9:R:437:GLN:OE1	9:R:456:ARG:NH1	2.22	0.72
10:S:1142:ASP:O	10:S:1179:LYS:NZ	2.18	0.72
12:U:425:GLU:OE1	12:U:435:ARG:NH1	2.21	0.72
3:C:85:VAL:O	3:C:105:LYS:HA	1.88	0.72
3:C:307:ALA:HA	3:C:312:ASN:O	1.89	0.72
5:E:104:ILE:O	5:E:120:ILE:N	2.17	0.72
9:I:74:ASN:ND2	9:I:466:ARG:CG	2.53	0.72
1:J:235:LEU:HA	1:J:238:MET:HE3	1.70	0.72
10:S:554:HIS:HA	10:S:557:HIS:CD2	2.25	0.72
10:S:1349:ARG:NH2	10:S:1429:GLN:O	2.22	0.72
6:F:568:PRO:O	6:F:587:ASP:N	2.22	0.72
8:H:210:THR:OG1	8:H:507:GLN:NE2	2.20	0.72
12:U:311:ASP:HB2	12:U:320:TRP:HE1	1.54	0.72
1:A:51:CYS:SG	3:C:5:ARG:NE	2.62	0.72
1:A:55:TYR:HE1	3:C:4:ALA:HA	1.55	0.72
7:G:192:LYS:HD3	7:G:193:ILE:N	2.05	0.72
8:H:164:GLU:OE2	8:H:168:GLN:NE2	2.23	0.72
8:H:856:LEU:HD12	8:H:861:GLN:HB2	1.69	0.72
1:A:55:TYR:CE1	3:C:4:ALA:HA	2.24	0.72
1:A:113:MET:O	1:A:117:HIS:ND1	2.22	0.72
3:C:34:GLN:HG3	3:C:54:LYS:HD2	1.71	0.72
5:N:232:TRP:HD1	5:N:249:ALA:HA	1.54	0.72
7:P:109:VAL:HB	7:P:120:LEU:HD21	1.71	0.72
7:P:192:LYS:HG2	7:P:206:LYS:HA	1.70	0.72
4:D:1131:LEU:HD13	4:D:1134:ILE:HD12	1.70	0.72
4:M:781:LEU:HA	4:M:818:THR:HA	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:603:ILE:HG22	8:Q:609:ARG:HG2	1.70	0.72
10:S:1928:THR:HB	10:S:1933:ARG:HH22	1.54	0.72
6:F:293:SER:OG	6:F:295:LYS:NZ	2.22	0.72
4:M:75:GLY:O	4:M:213:ASN:ND2	2.23	0.72
6:O:567:GLU:HB3	6:O:587:ASP:HA	1.70	0.72
6:F:613:TYR:HA	12:U:187:ARG:CZ	2.20	0.72
3:L:140:ARG:HG3	3:L:158:GLU:HG2	1.72	0.72
3:L:168:ILE:HG22	3:L:184:VAL:HG12	1.70	0.72
10:S:1114:MET:HB2	10:S:1287:LEU:HD22	1.72	0.72
1:A:486:SER:HG	1:A:487:TRP:HD1	1.36	0.71
2:B:100:ILE:HD13	2:B:114:GLN:OE1	1.90	0.71
2:B:301:GLY:HA3	2:B:340:LEU:HG	1.71	0.71
6:F:567:GLU:HB3	6:F:587:ASP:HA	1.70	0.71
7:G:79:TYR:O	7:G:81:ARG:NH1	2.23	0.71
1:J:50:ARG:NH1	1:J:51:CYS:SG	2.62	0.71
4:M:700:ASN:HB3	4:M:848:VAL:HG11	1.71	0.71
7:P:31:CYS:HB2	7:P:60:VAL:HG11	1.71	0.71
9:R:562:ASP:H	9:R:565:TRP:HD1	1.38	0.71
10:S:1306:GLN:OE1	10:S:1347:SER:OG	2.08	0.71
2:B:57:SER:O	2:B:371:ARG:NH2	2.23	0.71
4:D:432:ALA:HB3	11:T:111:ILE:HA	1.70	0.71
5:E:4:ASP:H	5:E:293:ILE:HG13	1.54	0.71
7:P:213:TRP:O	7:P:215:ARG:NH1	2.22	0.71
8:Q:547:PHE:HA	8:Q:550:THR:HG22	1.69	0.71
10:S:1753:GLN:NE2	10:S:1888:LEU:O	2.20	0.71
12:U:92:PRO:HA	12:U:93:VAL:HB	1.71	0.71
8:H:338:LEU:O	8:H:342:PHE:HB3	1.90	0.71
2:B:267:HIS:HE1	2:B:269:SER:HB3	1.53	0.71
5:N:25:ASN:OD1	5:N:306:ARG:NH2	2.20	0.71
7:P:265:TRP:N	7:P:279:SER:O	2.20	0.71
12:U:650:VAL:HB	12:U:661:ARG:HG3	1.72	0.71
1:A:390:LEU:O	1:A:394:ALA:HB3	1.90	0.71
9:I:753:SER:O	9:I:760:ARG:NH2	2.22	0.71
4:M:481:ILE:HG22	4:M:482:LEU:HD12	1.73	0.71
8:Q:338:LEU:O	8:Q:342:PHE:HB3	1.90	0.71
11:T:929:THR:O	11:T:933:GLN:NE2	2.22	0.71
6:F:376:TRP:C	6:F:633:LEU:HD13	2.10	0.71
8:H:435:SER:HA	8:H:494:ARG:HG3	1.72	0.71
3:L:248:PHE:HE1	3:L:270:THR:HG23	1.54	0.71
6:F:259:TRP:NE1	6:F:666:GLU:HG3	2.06	0.71
8:H:436:TRP:HB2	8:H:495:VAL:HG13	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:782:ARG:O	9:I:786:ILE:HD12	1.91	0.71
4:M:918:LEU:O	5:N:253:ARG:NH1	2.24	0.71
4:M:970:GLU:O	5:N:275:LYS:NZ	2.23	0.71
4:M:1094:ARG:NH2	4:M:1140:TRP:O	2.19	0.71
5:E:30:GLY:HA3	5:E:86:CYS:H	1.55	0.71
8:H:375:TYR:HB2	8:H:395:ARG:HH22	1.55	0.71
4:M:331:SER:O	4:M:335:ARG:NH1	2.24	0.71
8:Q:217:LEU:HD13	8:Q:510:VAL:HG12	1.71	0.71
8:Q:889:ARG:O	8:Q:893:GLN:NE2	2.22	0.71
10:S:933:ASP:O	10:S:936:GLN:NE2	2.22	0.71
11:T:664:TYR:HE1	11:T:757:LEU:HB3	1.56	0.71
12:U:723:LEU:HD13	12:U:789:GLN:HB2	1.71	0.71
4:D:1128:LEU:HA	4:D:1131:LEU:HD23	1.72	0.71
7:G:192:LYS:HD3	7:G:193:ILE:H	1.56	0.71
1:A:487:TRP:HH2	2:B:25:SER:H	1.39	0.71
2:B:21:PRO:HD3	2:B:83:PHE:CD2	2.25	0.71
2:B:223:HIS:HE2	2:B:231:ALA:HB2	1.56	0.71
9:I:941:ALA:O	9:I:951:LYS:NZ	2.23	0.71
10:S:1587:TYR:HA	10:S:1615:TYR:HE1	1.55	0.71
2:B:178:LEU:HD21	2:B:245:ARG:HA	1.73	0.70
3:C:106:ARG:HE	3:C:151:SER:HB3	1.54	0.70
4:D:922:GLU:HB2	4:D:925:LYS:HE2	1.72	0.70
2:K:90:VAL:HG22	2:K:100:ILE:HG12	1.73	0.70
12:U:610:ILE:HG23	12:U:629:LEU:HG	1.73	0.70
8:H:770:GLN:HB3	8:H:775:GLU:HB2	1.73	0.70
6:O:320:SER:OG	6:O:632:ARG:NH1	2.24	0.70
10:S:493:LYS:O	10:S:497:GLN:NE2	2.23	0.70
6:F:379:THR:OG1	6:F:633:LEU:HD13	1.92	0.70
3:L:60:VAL:HA	3:L:78:SER:HB2	1.72	0.70
1:A:152:ILE:HD11	1:A:378:LEU:HD21	1.72	0.70
4:D:123:LEU:HB2	4:D:126:ASN:HD22	1.55	0.70
4:D:844:GLY:O	4:D:850:ARG:NH1	2.25	0.70
1:J:389:ASN:OD1	1:J:395:ASN:ND2	2.25	0.70
2:K:85:ASP:OD1	2:K:88:ARG:N	2.24	0.70
7:P:133:THR:HB	7:P:141:GLU:HB2	1.73	0.70
8:Q:217:LEU:HD11	8:Q:511:ILE:HA	1.74	0.70
2:B:114:GLN:HG2	2:B:158:ARG:HG2	1.74	0.70
6:F:575:PRO:HG3	6:F:597:GLN:NE2	2.06	0.70
7:G:192:LYS:HD2	7:G:194:TRP:CE2	2.26	0.70
8:Q:301:MET:HE3	12:U:111:LEU:HD22	1.73	0.70
8:Q:375:TYR:HB2	8:Q:395:ARG:HH22	1.56	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1460:LYS:HA	10:S:1463:ARG:HD2	1.74	0.70
5:E:44:VAL:HG13	5:E:71:HIS:CD2	2.26	0.70
9:I:827:ARG:HH22	5:N:2:LYS:HD3	1.57	0.70
1:J:626:ASP:HA	1:J:629:LYS:HE2	1.73	0.70
7:P:58:GLY:HA3	7:P:79:TYR:HB3	1.71	0.70
9:R:883:ASP:HB3	9:R:887:ARG:NH1	2.07	0.70
1:A:369:TRP:HB2	1:A:400:LEU:HD22	1.72	0.70
4:D:808:GLU:H	4:D:830:LYS:HD2	1.57	0.70
5:E:153:ASP:OD1	5:E:157:LYS:N	2.18	0.70
7:G:127:GLY:HA2	7:G:149:HIS:HB2	1.72	0.70
1:J:377:ASP:O	1:J:381:HIS:ND1	2.25	0.70
5:N:234:ILE:HB	5:N:245:ASP:HB3	1.73	0.70
9:R:207:LYS:HE2	9:R:290:ASP:HA	1.74	0.70
10:S:1776:GLN:HA	10:S:1931:ASN:H	1.57	0.70
12:U:552:PHE:HB3	12:U:567:PHE:HE1	1.54	0.70
1:A:514:PHE:CD2	1:A:540:ARG:HD2	2.27	0.70
8:H:436:TRP:N	8:H:495:VAL:HG22	2.07	0.70
7:P:87:LYS:O	7:P:94:GLU:N	2.25	0.70
8:Q:170:GLU:HB3	8:Q:212:ARG:HH12	1.56	0.70
2:B:89:ILE:O	2:B:100:ILE:HA	1.92	0.70
3:C:277:HIS:HA	3:C:303:ARG:HE	1.56	0.70
1:J:446:LYS:HA	1:J:449:LEU:HD12	1.74	0.70
4:M:951:GLU:HB3	4:M:957:PRO:HB3	1.74	0.70
10:S:974:THR:O	10:S:977:ARG:NH1	2.24	0.70
6:F:465:LEU:HA	6:F:468:LEU:HD12	1.74	0.70
1:J:94:ARG:NH1	1:J:383:GLN:OE1	2.25	0.70
6:O:638:TRP:O	6:O:642:GLN:HG2	1.92	0.70
8:Q:630:VAL:HG12	8:Q:665:VAL:HG23	1.72	0.70
10:S:443:ILE:HD13	10:S:446:LEU:HD12	1.74	0.70
3:C:36:VAL:O	3:C:52:SER:HA	1.91	0.69
4:D:150:ASN:OD1	4:D:171:ARG:NH2	2.24	0.69
9:I:440:ASN:HB3	9:I:456:ARG:HE	1.57	0.69
10:S:521:PRO:O	10:S:525:HIS:ND1	2.19	0.69
10:S:850:LEU:O	10:S:853:THR:OG1	2.10	0.69
1:J:401:LEU:HD22	1:J:421:TYR:HB3	1.74	0.69
2:K:132:THR:H	2:K:145:GLY:HA2	1.56	0.69
3:L:207:ARG:HD3	4:M:1253:GLN:HE22	1.56	0.69
4:M:356:TYR:CE1	4:M:373:GLN:HG2	2.27	0.69
6:O:478:VAL:HA	6:O:481:LEU:HD12	1.73	0.69
6:O:814:GLN:NE2	6:O:818:ASP:OD2	2.25	0.69
10:S:1804:PRO:HB2	10:S:1807:ARG:HB2	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:264:GLU:O	1:A:268:GLN:NE2	2.24	0.69
6:F:376:TRP:O	6:F:633:LEU:HD12	1.87	0.69
1:J:438:GLU:OE2	1:J:463:GLN:NE2	2.21	0.69
4:M:1407:ILE:HA	4:M:1410:LYS:HD2	1.74	0.69
6:O:602:VAL:HG12	6:O:606:LYS:NZ	2.04	0.69
7:P:87:LYS:N	7:P:94:GLU:O	2.16	0.69
8:Q:162:VAL:HG11	8:Q:550:THR:HG21	1.74	0.69
8:Q:894:LYS:O	8:Q:897:GLU:HG2	1.93	0.69
9:R:72:ASN:O	9:R:468:THR:OG1	2.10	0.69
10:S:1866:SER:HB3	10:S:1869:GLN:HG2	1.74	0.69
8:H:519:MET:HG2	8:H:559:VAL:HG21	1.72	0.69
8:H:789:ASP:OD1	8:H:790:PHE:N	2.25	0.69
1:J:42:GLN:HG3	3:L:14:LEU:HD13	1.74	0.69
9:R:75:VAL:HG12	9:R:463:VAL:HG12	1.73	0.69
9:R:174:GLY:HA3	9:R:195:PHE:HB2	1.73	0.69
10:S:390:HIS:HD2	10:S:391:LYS:HD3	1.57	0.69
12:U:25:GLU:HG3	12:U:32:ASN:HA	1.75	0.69
2:B:150:ILE:O	2:B:163:THR:HA	1.92	0.69
9:I:1016:ILE:HG13	9:I:1038:LEU:HD23	1.73	0.69
9:I:1110:LEU:O	9:I:1116:ASN:ND2	2.24	0.69
4:M:423:LYS:HG2	4:M:435:TRP:HB3	1.72	0.69
4:M:794:LEU:HA	4:M:797:LEU:HD12	1.75	0.69
9:R:813:GLU:OE2	9:R:817:ASN:ND2	2.16	0.69
4:D:1404:ASN:HA	4:D:1407:ILE:HD12	1.74	0.69
5:E:18:TYR:HD1	5:E:316:TYR:HA	1.57	0.69
7:G:195:ARG:NH1	7:G:202:LYS:HE2	2.07	0.69
5:N:41:ILE:HD13	5:N:74:ARG:HD3	1.74	0.69
5:N:250:HIS:HB3	5:N:252:ASP:H	1.57	0.69
6:O:257:PRO:HA	7:P:271:ILE:HD13	1.73	0.69
6:O:465:LEU:HA	6:O:468:LEU:HD12	1.74	0.69
6:O:471:GLN:NE2	8:Q:367:ALA:O	2.26	0.69
8:Q:276:PHE:HA	8:Q:279:ASN:HD22	1.58	0.69
4:D:59:ARG:HD2	4:D:125:ASN:H	1.58	0.69
4:D:910:HIS:HB2	4:D:933:ALA:HB2	1.75	0.69
7:G:289:LYS:HE3	7:G:299:ILE:HG21	1.75	0.69
2:K:218:HIS:HE1	2:K:235:GLN:HB2	1.55	0.69
4:M:79:TYR:OH	4:M:210:ARG:NH1	2.22	0.69
7:P:31:CYS:HA	7:P:37:VAL:HG22	1.74	0.69
10:S:511:LEU:HB3	10:S:515:ARG:NH2	2.08	0.69
1:A:5:ASP:HB3	3:C:314:LYS:HB2	1.73	0.69
1:A:595:THR:O	1:A:598:LEU:HB2	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:214:THR:OG1	3:C:216:MET:SD	2.51	0.69
5:E:41:ILE:HG23	5:E:74:ARG:HB3	1.75	0.69
6:F:379:THR:CB	6:F:633:LEU:HD21	2.22	0.69
6:F:734:ARG:CZ	6:F:735:ARG:HH12	2.05	0.69
7:G:65:TRP:CD2	7:G:74:LEU:HD21	2.27	0.69
7:G:155:ALA:O	7:G:184:SER:HB2	1.93	0.69
8:H:570:ARG:O	8:H:573:ASN:N	2.25	0.69
1:J:412:HIS:HE1	2:K:179:ARG:HB3	1.58	0.69
4:M:928:ASP:O	4:M:932:GLN:NE2	2.25	0.69
4:M:1087:HIS:HB3	4:M:1092:ASN:HB2	1.73	0.69
5:N:94:ARG:NH2	5:N:136:GLU:O	2.26	0.69
5:N:242:TYR:O	5:N:244:GLN:NE2	2.25	0.69
6:O:335:ASP:O	6:O:342:HIS:N	2.25	0.69
6:O:519:ASP:HB2	6:O:521:ARG:HG3	1.75	0.69
7:P:242:TRP:HA	7:P:253:THR:O	1.93	0.69
9:R:271:ASP:HB3	9:R:275:CYS:HB2	1.75	0.69
10:S:1180:ILE:HG13	10:S:1284:TRP:CZ2	2.28	0.69
11:T:143:GLN:HA	11:T:150:ARG:HH22	1.57	0.69
11:T:554:SER:HA	11:T:628:ASN:HD21	1.58	0.69
2:B:114:GLN:NE2	2:B:157:SER:O	2.26	0.69
1:J:494:ALA:HB3	10:S:1244:MET:HG3	1.75	0.69
9:R:111:LEU:HD23	9:R:118:ILE:HD11	1.73	0.69
9:R:240:GLN:H	9:R:299:ASN:HD22	1.41	0.69
10:S:288:THR:HB	10:S:291:ARG:HB2	1.75	0.69
3:C:20:PHE:CZ	3:C:24:GLY:HA2	2.27	0.69
6:F:478:VAL:HA	6:F:481:LEU:HD12	1.73	0.69
4:M:1322:ASN:HA	4:M:1325:ILE:HD12	1.75	0.69
7:P:179:ILE:HB	7:P:195:ARG:HH22	1.58	0.69
10:S:903:GLY:HA2	10:S:906:ASN:HB2	1.75	0.69
12:U:583:MET:O	12:U:598:ALA:N	2.26	0.69
1:A:514:PHE:HZ	1:A:539:TYR:CD2	2.12	0.68
2:B:45:VAL:HG11	2:B:101:PHE:HE2	1.58	0.68
3:C:202:TYR:HB2	3:C:209:TYR:HE1	1.58	0.68
4:D:1121:VAL:HG21	4:D:1193:LEU:HD22	1.74	0.68
6:F:614:ASP:O	6:F:616:CYS:N	2.26	0.68
10:S:1232:ARG:NH1	10:S:1233:VAL:HG23	2.08	0.68
12:U:376:TYR:HD1	12:U:380:VAL:HB	1.58	0.68
1:A:123:THR:HG1	1:A:130:TYR:HE2	1.41	0.68
1:J:600:ARG:HH21	4:M:1125:LEU:HD22	1.57	0.68
5:N:187:THR:HA	5:N:209:VAL:HG12	1.75	0.68
7:P:84:ILE:HG23	7:P:95:LYS:HZ2	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:532:LYS:N	10:S:552:TRP:HZ3	1.91	0.68
3:C:149:ASN:O	3:C:152:GLN:NE2	2.27	0.68
6:F:323:LEU:HG	6:F:358:TRP:NE1	2.08	0.68
6:F:382:LEU:CD1	6:F:601:CYS:HG	2.06	0.68
7:G:35:ARG:HH22	7:G:57:ASP:HA	1.59	0.68
8:Q:248:LEU:HD13	8:Q:455:GLU:HG2	1.75	0.68
9:R:893:GLY:HA2	9:R:895:ARG:HH21	1.58	0.68
1:A:643:ARG:HH22	4:D:1088:ILE:HG22	1.59	0.68
3:L:106:ARG:NE	3:L:151:SER:OG	2.25	0.68
4:M:790:LEU:HD22	4:M:886:CYS:HB2	1.74	0.68
5:N:78:ILE:HG12	5:N:97:THR:HG22	1.76	0.68
7:P:218:ALA:C	7:P:269:TRP:HE1	1.97	0.68
9:R:341:GLY:HA3	9:R:367:ASP:H	1.57	0.68
9:R:944:GLU:OE2	9:R:946:ARG:N	2.25	0.68
10:S:511:LEU:HD23	10:S:514:LEU:HD12	1.74	0.68
10:S:1355:PRO:HB3	10:S:1360:GLY:HA3	1.76	0.68
10:S:1587:TYR:HB2	10:S:1651:HIS:CE1	2.27	0.68
11:T:951:LEU:O	11:T:955:HIS:ND1	2.26	0.68
2:B:187:ASN:HB2	2:B:191:GLN:HB3	1.75	0.68
9:I:895:ARG:HA	9:I:898:LEU:HB3	1.74	0.68
7:P:20:GLN:HB3	7:P:65:TRP:NE1	2.09	0.68
10:S:1113:LEU:O	10:S:1116:THR:OG1	2.08	0.68
1:A:69:ARG:HG3	1:A:70:LYS:H	1.59	0.68
2:B:290:ALA:HA	2:B:336:GLU:HG3	1.74	0.68
8:H:276:PHE:HA	8:H:279:ASN:HD22	1.58	0.68
9:I:363:VAL:HG22	9:I:378:VAL:HG22	1.74	0.68
3:L:205:ASN:O	3:L:207:ARG:NH1	2.24	0.68
4:M:94:LEU:H	4:M:849:HIS:HA	1.59	0.68
8:Q:355:ARG:NH1	12:U:30:GLU:O	2.26	0.68
10:S:908:GLU:HG2	10:S:909:LEU:N	2.08	0.68
10:S:1320:ILE:HD11	10:S:1329:LEU:HD13	1.73	0.68
6:F:379:THR:HB	6:F:633:LEU:HD21	1.74	0.68
6:F:383:CYS:HB2	6:F:637:MET:SD	2.29	0.68
7:G:235:GLN:HA	7:G:263:VAL:HG13	1.75	0.68
9:I:755:GLY:O	9:I:760:ARG:NH2	2.27	0.68
9:I:989:GLN:N	9:I:989:GLN:OE1	2.27	0.68
4:M:638:PRO:HG2	4:M:765:ALA:HB1	1.76	0.68
8:Q:841:ARG:C	8:Q:845:LEU:HD23	2.13	0.68
4:D:1242:PHE:HB3	4:D:1309:ILE:HD11	1.75	0.68
9:R:651:ASN:OD1	9:R:652:SER:N	2.27	0.68
10:S:1498:LEU:HD23	10:S:1501:ARG:HH22	1.56	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:359:VAL:HA	2:B:369:VAL:HG12	1.75	0.68
6:F:781:GLY:O	6:F:785:ARG:NH1	2.27	0.68
8:H:180:LEU:HD23	8:H:201:LEU:HD13	1.76	0.68
9:I:661:ARG:HD2	9:I:681:GLN:HG3	1.74	0.68
5:N:11:TYR:HB2	5:N:321:PHE:HB2	1.75	0.68
6:O:575:PRO:HD2	6:O:578:LEU:HD23	1.75	0.68
7:P:205:GLN:NE2	7:P:250:ASN:O	2.27	0.68
10:S:671:GLN:NE2	10:S:682:VAL:O	2.27	0.68
10:S:807:LEU:HB3	10:S:873:VAL:HG13	1.75	0.68
10:S:1719:ASN:HB3	10:S:1802:ILE:HA	1.76	0.68
12:U:693:LEU:O	12:U:697:ILE:HD12	1.94	0.68
2:B:195:TRP:HB3	2:B:200:GLN:HE22	1.59	0.68
6:F:612:GLN:HA	12:U:183:MET:HG2	0.69	0.68
8:H:727:LEU:O	8:H:824:ARG:NH1	2.27	0.68
4:M:792:SER:O	4:M:796:HIS:ND1	2.27	0.68
4:M:1316:HIS:HA	10:S:718:THR:HB	1.76	0.68
4:M:1351:GLU:HA	4:M:1354:LEU:HD12	1.76	0.68
6:O:722:ALA:HA	6:O:725:ILE:HD13	1.76	0.68
1:A:166:GLU:OE2	1:A:169:ARG:NH2	2.27	0.67
2:B:65:ASP:O	2:B:67:LYS:NZ	2.18	0.67
3:C:246:ARG:HB3	3:C:248:PHE:CE2	2.30	0.67
4:D:1143:GLN:HE21	4:D:1175:GLU:HB2	1.59	0.67
6:F:734:ARG:NH2	6:F:735:ARG:HH12	1.91	0.67
9:I:568:SER:HB3	11:T:572:PRO:HA	1.75	0.67
4:M:342:HIS:HD2	4:M:361:LEU:HA	1.57	0.67
4:M:1320:LEU:HD23	4:M:1325:ILE:HG13	1.76	0.67
8:Q:521:GLU:OE2	8:Q:525:TRP:NE1	2.27	0.67
1:A:106:ARG:NE	1:A:145:ASN:OD1	2.27	0.67
4:D:1312:LYS:HE3	4:D:1316:HIS:HE1	1.59	0.67
8:H:633:ASN:HA	8:H:636:LYS:HG2	1.75	0.67
8:H:788:MET:SD	2:K:63:GLN:NE2	2.66	0.67
1:J:10:GLU:HG2	1:J:57:VAL:HG22	1.76	0.67
7:P:67:HIS:HD2	7:P:69:MET:H	1.40	0.67
9:R:567:GLU:HG3	9:R:571:GLU:HG2	1.77	0.67
4:D:1077:HIS:HE1	4:D:1082:LEU:HB2	1.59	0.67
4:M:810:ARG:HH21	4:M:825:GLU:HB2	1.58	0.67
6:O:434:PRO:HA	6:O:437:HIS:HB3	1.76	0.67
6:O:731:VAL:HG13	6:O:734:ARG:HH21	1.59	0.67
7:P:100:THR:HA	7:P:102:HIS:CE1	2.29	0.67
7:P:215:ARG:NH2	7:P:235:GLN:OE1	2.27	0.67
7:P:244:SER:HB3	7:P:249:THR:HB	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:869:ALA:HB1	8:Q:895:LEU:CG	2.24	0.67
10:S:1526:ASP:HA	10:S:1580:ARG:HH12	1.59	0.67
12:U:746:LEU:HA	12:U:749:ILE:HD12	1.75	0.67
3:C:185:GLY:HA2	3:C:197:VAL:HG22	1.76	0.67
1:J:428:LEU:HB3	1:J:432:TYR:HE2	1.58	0.67
8:Q:541:MET:O	8:Q:544:LEU:HB3	1.94	0.67
1:A:594:GLN:HA	1:A:597:GLU:OE1	1.94	0.67
6:F:685:HIS:HB3	7:G:172:SER:HA	1.77	0.67
7:G:62:GLN:HG2	7:G:77:CYS:SG	2.35	0.67
9:I:488:ARG:HB3	9:I:530:SER:HA	1.76	0.67
2:K:179:ARG:NE	2:K:182:GLU:OE1	2.25	0.67
3:L:286:TRP:HB3	3:L:290:GLY:HA2	1.76	0.67
4:M:398:ILE:HB	4:M:412:LEU:HG	1.77	0.67
4:M:451:GLY:H	4:M:528:ILE:HD12	1.60	0.67
5:N:283:HIS:HA	5:N:290:PRO:HA	1.75	0.67
11:T:48:LEU:HD21	11:T:480:LEU:HD11	1.75	0.67
12:U:484:GLU:OE1	12:U:487:ARG:NH2	2.28	0.67
12:U:515:SER:O	12:U:526:ARG:N	2.23	0.67
1:A:21:ARG:NH2	1:A:44:ASN:O	2.27	0.67
2:B:238:MET:HG3	2:B:255:ASN:HA	1.77	0.67
4:D:810:ARG:NH2	4:D:885:ASN:OD1	2.27	0.67
6:F:575:PRO:HD2	6:F:578:LEU:HD23	1.75	0.67
8:H:292:THR:HG23	8:H:310:LEU:HD13	1.75	0.67
9:I:901:GLN:O	9:I:906:HIS:NE2	2.27	0.67
2:K:122:HIS:HB2	2:K:147:ASP:HB2	1.77	0.67
3:L:122:ALA:HB3	3:L:129:MET:H	1.59	0.67
4:M:425:ILE:HD13	4:M:435:TRP:H	1.60	0.67
6:O:485:GLN:HG3	6:O:489:TRP:NE1	2.10	0.67
6:O:771:GLU:HA	6:O:773:TYR:CE2	2.30	0.67
8:Q:292:THR:HG23	8:Q:310:LEU:HD13	1.75	0.67
8:Q:498:GLU:O	8:Q:504:HIS:ND1	2.19	0.67
9:R:223:LEU:HA	9:R:232:ASN:O	1.95	0.67
7:G:157:SER:O	7:G:182:PHE:HB2	1.94	0.67
8:H:673:PRO:HA	8:H:676:ARG:HH12	1.59	0.67
3:L:222:VAL:HA	3:L:242:THR:HG22	1.77	0.67
6:O:504:ARG:HD2	6:O:525:VAL:HA	1.76	0.67
9:R:494:ASP:HB3	9:R:511:ALA:HB1	1.77	0.67
10:S:862:ASP:OD1	10:S:865:ARG:NH1	2.28	0.67
10:S:1095:LEU:HD22	10:S:1110:MET:HG3	1.77	0.67
11:T:234:GLN:HB3	11:T:246:LEU:HD11	1.75	0.67
4:D:924:HIS:HD2	5:E:74:ARG:HH12	1.43	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:766:GLN:NE2	4:M:903:GLN:OE1	2.28	0.67
8:Q:433:CYS:HB3	8:Q:438:ASP:HB3	1.77	0.67
9:R:745:PRO:HG2	9:R:815:ARG:NH2	2.09	0.67
2:B:222:ARG:HB2	2:B:227:GLN:HA	1.76	0.67
2:K:179:ARG:NH2	2:K:181:THR:OG1	2.23	0.67
3:L:35:SER:HB2	3:L:54:LYS:HD3	1.77	0.67
4:M:1192:ARG:HG2	4:M:1206:ALA:HB1	1.75	0.67
2:K:22:VAL:HB	2:K:30:PRO:HA	1.77	0.67
3:L:121:PHE:HB3	3:L:128:LEU:HD11	1.76	0.67
6:O:335:ASP:N	6:O:342:HIS:O	2.28	0.67
1:A:411:HIS:HB3	1:A:414:LEU:HB3	1.75	0.66
3:C:141:ILE:HB	3:C:157:HIS:O	1.94	0.66
4:D:1093:TYR:CE1	4:D:1134:ILE:HA	2.30	0.66
6:F:356:ALA:HB1	6:F:360:ARG:NH1	2.11	0.66
2:K:331:THR:HG22	2:K:332:LYS:H	1.58	0.66
4:M:477:LYS:HB3	9:R:84:VAL:HB	1.76	0.66
10:S:738:ASP:HA	10:S:742:LEU:HD12	1.77	0.66
10:S:1356:MET:SD	10:S:1357:THR:N	2.68	0.66
10:S:1487:GLY:O	10:S:1492:ARG:NH1	2.28	0.66
12:U:195:LYS:HG3	12:U:200:HIS:HB2	1.76	0.66
4:D:433:GLY:N	11:T:114:SER:H	1.93	0.66
4:D:989:ALA:O	4:D:996:GLN:NE2	2.27	0.66
5:E:256:MET:H	5:E:270:THR:HG22	1.59	0.66
10:S:695:CYS:O	10:S:750:ARG:NH2	2.28	0.66
10:S:1982:GLU:OE2	10:S:1996:GLN:NE2	2.27	0.66
11:T:689:ARG:HH22	11:T:792:SER:HB3	1.58	0.66
2:B:148:GLY:HA2	2:B:172:MET:HE2	1.77	0.66
2:B:183:ILE:HG13	2:B:195:TRP:HE3	1.59	0.66
3:C:113:ARG:NH1	4:D:1367:TYR:OH	2.28	0.66
3:C:287:ASN:OD1	3:C:292:VAL:N	2.26	0.66
3:C:306:LYS:HE2	3:C:316:ILE:HD13	1.76	0.66
1:J:13:ILE:HB	1:J:16:LEU:HG	1.76	0.66
2:K:267:HIS:HE1	2:K:269:SER:HB2	1.61	0.66
3:L:121:PHE:O	3:L:170:TRP:NE1	2.29	0.66
6:O:435:GLU:OE1	6:O:436:ARG:NH1	2.28	0.66
8:Q:355:ARG:HD2	12:U:29:VAL:HA	1.76	0.66
11:T:803:PRO:HD2	11:T:806:LEU:HD12	1.76	0.66
1:A:16:LEU:H	1:A:19:GLN:HE21	1.42	0.66
3:C:171:ASN:HD22	3:C:181:MET:HB2	1.60	0.66
4:D:1335:GLU:O	4:D:1338:ARG:HD3	1.96	0.66
6:F:816:ARG:NE	6:F:816:ARG:O	2.29	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1204:ALA:HB2	10:S:468:GLN:HG3	1.78	0.66
10:S:625:VAL:HA	10:S:628:LEU:HD12	1.77	0.66
10:S:760:GLU:HG2	10:S:845:TYR:HE2	1.60	0.66
10:S:851:ASN:OD1	10:S:855:GLN:NE2	2.23	0.66
10:S:874:THR:OG1	10:S:878:GLN:OE1	2.14	0.66
1:A:591:SER:HB3	1:A:594:GLN:NE2	2.09	0.66
2:B:29:GLN:HG2	2:B:53:PHE:CE2	2.30	0.66
4:D:954:SER:HA	4:D:960:GLN:HE22	1.61	0.66
6:F:434:PRO:HA	6:F:437:HIS:HB3	1.76	0.66
8:H:355:ARG:HH22	8:H:358:LYS:NZ	1.94	0.66
8:H:721:GLN:NE2	8:H:723:MET:O	2.29	0.66
6:O:343:PHE:CD2	6:O:679:LEU:HB2	2.30	0.66
6:O:387:TRP:HA	6:O:409:ARG:HH22	1.60	0.66
8:Q:395:ARG:HB3	8:Q:399:LYS:HZ3	1.60	0.66
10:S:743:ARG:HB3	10:S:747:ARG:HH12	1.61	0.66
10:S:1891:LEU:O	10:S:1895:ILE:HD12	1.96	0.66
11:T:836:VAL:HB	11:T:840:GLN:HE21	1.61	0.66
12:U:505:LYS:H	12:U:526:ARG:HH21	1.44	0.66
1:A:432:TYR:O	1:A:436:HIS:ND1	2.29	0.66
2:B:114:GLN:O	2:B:115:ARG:NH1	2.26	0.66
4:D:1012:HIS:HB3	4:D:1015:GLN:NE2	2.10	0.66
4:D:1264:TRP:HE1	4:D:1283:ALA:HB2	1.58	0.66
7:G:270:SER:HG	7:G:274:ASN:H	1.43	0.66
1:J:409:PHE:HD1	1:J:415:TRP:HA	1.58	0.66
1:J:551:PHE:HE2	1:J:589:ILE:HG12	1.60	0.66
9:R:86:VAL:HG22	9:R:118:ILE:HD12	1.77	0.66
4:D:996:GLN:OE1	4:D:996:GLN:N	2.26	0.66
4:D:1058:HIS:HA	4:D:1061:VAL:HG22	1.77	0.66
6:F:435:GLU:OE1	6:F:436:ARG:NH1	2.28	0.66
6:F:650:SER:HB3	6:F:652:HIS:CD2	2.30	0.66
1:J:21:ARG:NH2	1:J:44:ASN:O	2.29	0.66
1:J:623:SER:O	1:J:627:ASN:N	2.28	0.66
2:K:142:VAL:HG11	2:K:183:ILE:HG21	1.78	0.66
10:S:743:ARG:O	10:S:747:ARG:NH1	2.28	0.66
3:C:284:VAL:HB	3:C:293:LEU:HD11	1.78	0.66
4:D:96:SER:HA	4:D:176:GLU:HB2	1.78	0.66
4:D:1078:ASN:O	4:D:1081:GLU:HG2	1.95	0.66
6:F:916:TYR:CD2	11:T:993:ILE:HG12	2.31	0.66
7:G:14:ASP:HB3	7:G:34:ASP:HB3	1.78	0.66
1:J:58:ARG:NE	1:J:60:ASP:HB2	2.10	0.66
1:J:572:TRP:CD1	1:J:575:LEU:HD22	2.31	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:342:HIS:ND1	6:O:679:LEU:O	2.28	0.66
6:O:356:ALA:HB1	6:O:360:ARG:NH1	2.11	0.66
7:P:56:HIS:HA	7:P:82:LYS:HZ1	1.61	0.66
8:Q:667:ASP:HA	8:Q:670:VAL:HG12	1.77	0.66
8:Q:754:TRP:NE1	8:Q:801:THR:OG1	2.25	0.66
10:S:1776:GLN:OE1	10:S:1932:ARG:NH1	2.29	0.66
11:T:894:GLN:O	11:T:898:SER:OG	2.11	0.66
1:A:32:LEU:HB3	1:A:57:VAL:HB	1.78	0.66
4:D:1007:HIS:O	4:D:1012:HIS:N	2.28	0.66
4:D:1412:GLN:NE2	4:D:1415:MET:SD	2.69	0.66
7:G:164:PRO:HG2	7:G:224:GLY:H	1.59	0.66
8:H:344:LEU:O	8:H:349:MET:N	2.24	0.66
8:H:436:TRP:CA	8:H:495:VAL:HG22	2.26	0.66
6:O:687:ARG:O	6:O:691:VAL:HG23	1.96	0.66
6:O:763:LEU:HG	6:O:776:LEU:HD13	1.78	0.66
7:P:107:ASN:ND2	7:P:153:CYS:O	2.28	0.66
8:Q:355:ARG:HH22	8:Q:358:LYS:NZ	1.94	0.66
9:R:84:VAL:HA	9:R:87:MET:CE	2.25	0.66
10:S:293:GLU:HA	10:S:296:LYS:HG2	1.78	0.66
1:A:109:LEU:HB2	1:A:141:GLU:OE2	1.96	0.66
2:B:296:THR:H	2:B:308:SER:HA	1.61	0.66
4:D:867:GLN:O	4:D:875:ASN:ND2	2.28	0.66
4:D:914:ALA:HB2	4:D:929:CYS:HB2	1.77	0.66
5:E:125:GLY:HA3	5:E:145:ASP:HB2	1.78	0.66
7:G:133:THR:HB	7:G:141:GLU:HB2	1.78	0.66
7:G:249:THR:OG1	7:G:251:CYS:SG	2.53	0.66
4:M:1218:LEU:HD22	4:M:1227:ALA:HB2	1.77	0.66
10:S:496:ARG:O	10:S:499:SER:OG	2.12	0.66
12:U:740:ASP:HA	12:U:743:ARG:HD2	1.78	0.66
2:B:100:ILE:H	2:B:115:ARG:NH1	1.93	0.65
9:I:279:LEU:HA	9:I:284:ILE:HG12	1.76	0.65
3:L:79:PHE:HA	3:L:81:ARG:HH22	1.61	0.65
4:M:398:ILE:HD11	4:M:414:LEU:HD12	1.78	0.65
6:O:350:THR:HA	6:O:353:HIS:HD1	1.60	0.65
12:U:607:LYS:HA	12:U:610:ILE:HD12	1.77	0.65
3:C:204:GLU:O	3:C:207:ARG:HD2	1.96	0.65
6:F:252:ARG:NH1	7:G:216:ASP:OD2	2.25	0.65
8:H:439:THR:HG21	8:H:495:VAL:HG21	1.78	0.65
8:Q:678:GLU:O	8:Q:682:GLN:NE2	2.30	0.65
10:S:510:TYR:O	10:S:513:MET:HB2	1.96	0.65
10:S:1341:THR:HG21	10:S:1423:SER:HA	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:474:ASN:ND2	11:T:491:THR:O	2.29	0.65
11:T:585:THR:HG23	11:T:629:LEU:HD22	1.78	0.65
12:U:50:ARG:NH1	12:U:52:SER:OG	2.29	0.65
5:E:179:PHE:HB3	5:E:195:LEU:HB2	1.78	0.65
7:G:181:ARG:HA	7:G:201:TRP:HZ3	1.61	0.65
9:R:87:MET:N	9:R:87:MET:SD	2.67	0.65
10:S:1341:THR:HG23	10:S:1426:TYR:HD2	1.61	0.65
1:A:544:ARG:NH1	1:A:545:MET:HG3	2.11	0.65
3:C:240:VAL:HG12	3:C:246:ARG:NH2	2.04	0.65
7:G:218:ALA:HB3	7:G:231:ALA:HB3	1.79	0.65
4:M:137:ILE:HG12	4:M:155:ILE:HD11	1.77	0.65
6:O:343:PHE:HE2	6:O:676:PHE:HA	1.60	0.65
10:S:1680:SER:HA	10:S:1762:TYR:HD1	1.61	0.65
1:A:372:VAL:HA	1:A:375:LEU:HD12	1.78	0.65
5:E:259:TRP:HE1	5:E:264:GLU:HA	1.61	0.65
8:H:412:ASN:OD1	8:H:413:LYS:N	2.28	0.65
8:H:487:LEU:HD11	8:H:495:VAL:HG11	1.79	0.65
4:M:338:ALA:HA	4:M:342:HIS:ND1	2.12	0.65
8:Q:207:GLU:OE1	8:Q:211:TRP:NE1	2.29	0.65
8:Q:412:ASN:OD1	8:Q:413:LYS:N	2.29	0.65
8:Q:508:LYS:HA	8:Q:511:ILE:HD12	1.79	0.65
8:Q:605:ASP:OD1	8:Q:606:PRO:HD2	1.97	0.65
10:S:1508:GLN:HB3	10:S:1510:GLN:HE22	1.62	0.65
11:T:929:THR:N	11:T:932:GLU:OE1	2.29	0.65
8:H:345:ILE:HD11	8:H:353:ALA:HB2	1.78	0.65
8:H:398:TRP:HE3	8:H:399:LYS:HD3	1.62	0.65
1:J:576:LEU:HD12	1:J:605:ARG:HH21	1.60	0.65
3:L:185:GLY:HA3	3:L:222:VAL:HG11	1.79	0.65
4:M:107:SER:HB2	4:M:112:LEU:HD13	1.78	0.65
10:S:1273:CYS:HB3	10:S:1277:LYS:HZ2	1.61	0.65
4:D:59:ARG:HE	4:D:124:LEU:HA	1.62	0.65
4:D:1180:ARG:O	4:D:1184:LYS:HG2	1.97	0.65
4:D:1380:LEU:HD11	6:F:245:LEU:HG	1.79	0.65
7:G:190:LEU:HG	7:G:208:GLU:HG2	1.78	0.65
4:M:666:GLN:HA	4:M:747:LEU:HD21	1.78	0.65
4:M:1279:LYS:N	10:S:1242:GLN:O	2.27	0.65
6:O:835:LEU:O	6:O:839:VAL:HG23	1.97	0.65
7:P:82:LYS:HG2	7:P:84:ILE:HD11	1.79	0.65
1:A:66:PRO:O	1:A:70:LYS:NZ	2.25	0.65
2:B:73:LYS:NZ	6:O:278:ARG:H	1.95	0.65
2:B:244:VAL:HG22	2:B:248:LYS:HA	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:156:GLN:HG3	3:C:157:HIS:CD2	2.32	0.65
4:D:444:PRO:HG2	4:D:470:PHE:H	1.62	0.65
4:D:1357:VAL:HA	4:D:1360:LEU:HD12	1.78	0.65
8:H:395:ARG:HB3	8:H:399:LYS:HZ3	1.61	0.65
9:I:750:TRP:O	9:I:753:SER:OG	2.12	0.65
9:I:1017:GLN:HA	9:I:1020:VAL:HG12	1.78	0.65
2:K:75:PRO:O	2:K:93:SER:OG	2.15	0.65
8:Q:175:THR:O	8:Q:178:THR:OG1	2.15	0.65
10:S:1402:LEU:O	10:S:1406:ILE:HG12	1.97	0.65
11:T:951:LEU:HG	11:T:955:HIS:CE1	2.32	0.65
1:A:75:SER:HB2	1:A:374:HIS:CE1	2.26	0.65
6:F:572:TYR:OH	6:F:598:ARG:HD3	1.97	0.65
9:I:189:ILE:HD12	9:I:229:GLY:H	1.60	0.65
4:M:526:ILE:HA	9:R:62:TYR:HD2	1.62	0.65
6:O:324:PRO:HA	6:O:327:ILE:HD12	1.79	0.65
6:O:672:GLU:HA	6:O:675:ILE:HD12	1.78	0.65
9:R:871:ARG:HH22	9:R:875:LEU:HD21	1.61	0.65
10:S:1099:VAL:HG12	10:S:1102:SER:H	1.61	0.65
12:U:377:ARG:HB3	12:U:378:ARG:HH21	1.62	0.65
12:U:536:TYR:HA	12:U:539:LYS:HG2	1.79	0.65
8:H:395:ARG:HB3	8:H:399:LYS:NZ	2.12	0.65
8:H:571:LEU:O	8:H:576:GLN:NE2	2.30	0.65
4:M:976:GLU:HA	4:M:979:ILE:HD12	1.78	0.65
4:M:1200:PRO:HB2	10:S:470:THR:HA	1.79	0.65
6:O:642:GLN:HA	6:O:647:THR:HG22	1.78	0.65
8:Q:606:PRO:HA	8:Q:609:ARG:HB2	1.79	0.65
10:S:1890:SER:HA	10:S:1985:TYR:HE2	1.62	0.65
12:U:246:ARG:HH12	12:U:524:VAL:HG11	1.62	0.65
12:U:249:GLY:O	12:U:252:GLN:NE2	2.30	0.65
2:B:114:GLN:NE2	2:B:158:ARG:HA	2.08	0.64
6:F:352:ILE:HG12	6:F:640:VAL:HG21	1.79	0.64
6:F:776:LEU:HA	6:F:779:PHE:HB2	1.79	0.64
1:J:496:PHE:HA	1:J:499:LEU:HD12	1.78	0.64
8:Q:869:ALA:HB2	8:Q:895:LEU:CD2	1.99	0.64
10:S:979:MET:HA	10:S:982:ILE:HD12	1.80	0.64
10:S:1730:LEU:HD13	10:S:1748:MET:HB3	1.79	0.64
4:D:558:ASN:ND2	4:D:852:LEU:O	2.29	0.64
6:F:635:TRP:HE1	6:F:658:HIS:CD2	2.14	0.64
9:I:74:ASN:ND2	9:I:466:ARG:HG2	2.12	0.64
1:J:148:GLU:HA	1:J:152:ILE:HD12	1.77	0.64
1:J:479:ARG:HB2	3:L:94:ASN:HB2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:88:ARG:HH12	2:K:155:ALA:HB1	1.60	0.64
4:M:116:GLU:O	4:M:126:ASN:ND2	2.30	0.64
4:M:1211:ALA:HB1	4:M:1236:LEU:HD11	1.78	0.64
6:O:278:ARG:HB2	6:O:282:THR:HB	1.79	0.64
6:O:654:GLN:HE22	6:O:681:ILE:HG13	1.61	0.64
8:Q:345:ILE:HD11	8:Q:353:ALA:HB2	1.78	0.64
8:Q:395:ARG:HB3	8:Q:399:LYS:NZ	2.12	0.64
8:Q:627:THR:OG1	8:Q:675:GLN:NE2	2.16	0.64
10:S:842:ALA:HA	10:S:845:TYR:CD2	2.33	0.64
10:S:1067:LEU:O	10:S:1073:THR:OG1	2.15	0.64
1:A:106:ARG:NH2	1:A:148:GLU:OE1	2.31	0.64
1:A:517:LEU:HD12	1:A:540:ARG:HD3	1.79	0.64
1:A:591:SER:HB3	1:A:594:GLN:HE21	1.62	0.64
7:G:211:SER:H	7:G:238:ARG:HH22	1.43	0.64
8:H:206:GLN:HA	8:H:209:VAL:HG22	1.79	0.64
8:H:436:TRP:HA	8:H:495:VAL:HG22	1.80	0.64
9:I:365:VAL:HG22	9:I:376:ILE:HD12	1.79	0.64
9:I:567:GLU:HB3	9:I:572:GLU:HG2	1.78	0.64
3:L:81:ARG:HH21	3:L:115:SER:HA	1.61	0.64
8:Q:556:LYS:NZ	8:Q:558:GLU:OE1	2.29	0.64
10:S:1438:ASP:HB2	10:S:1883:ASN:HA	1.79	0.64
1:A:38:LEU:HG	3:C:15:ILE:HG12	1.79	0.64
4:D:758:GLN:OE1	11:T:673:ARG:NH2	2.31	0.64
8:H:373:LYS:O	8:H:395:ARG:NE	2.31	0.64
9:I:655:GLN:HA	9:I:658:LEU:HD12	1.79	0.64
9:I:1081:LYS:NZ	9:I:1135:TYR:OH	2.29	0.64
7:P:111:TRP:CE2	7:P:120:LEU:HD13	2.33	0.64
9:R:286:LYS:NZ	9:R:288:ASP:OD1	2.29	0.64
10:S:508:LEU:HA	10:S:511:LEU:HD12	1.78	0.64
10:S:1347:SER:O	10:S:1350:THR:OG1	2.13	0.64
10:S:1396:HIS:NE2	10:S:1464:ASP:OD2	2.30	0.64
10:S:1645:LEU:HA	10:S:1648:LEU:HD12	1.78	0.64
4:D:780:CYS:SG	4:D:890:GLN:NE2	2.71	0.64
9:I:484:SER:HB3	9:I:527:MET:HG3	1.78	0.64
9:I:972:LEU:HD23	9:I:975:LYS:HZ1	1.61	0.64
3:L:125:HIS:NE2	3:L:173:SER:O	2.31	0.64
6:O:504:ARG:NH1	6:O:525:VAL:O	2.31	0.64
6:O:621:PRO:HB3	6:O:633:LEU:HD23	1.80	0.64
8:Q:398:TRP:HE3	8:Q:399:LYS:HD3	1.62	0.64
8:Q:436:TRP:HE1	8:Q:487:LEU:HD21	1.63	0.64
9:R:64:HIS:HB3	9:R:67:ALA:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:726:CYS:O	9:R:730:GLN:NE2	2.29	0.64
3:C:304:LEU:HD12	3:C:317:GLY:HA3	1.80	0.64
6:F:785:ARG:HB2	6:F:788:HIS:ND1	2.13	0.64
9:I:882:SER:HA	9:I:885:LEU:HD12	1.80	0.64
3:L:157:HIS:HE1	3:L:208:LYS:HG2	1.61	0.64
8:Q:373:LYS:O	8:Q:395:ARG:NE	2.31	0.64
10:S:1016:ASN:O	10:S:1018:GLN:NE2	2.31	0.64
1:A:299:MET:HG2	1:A:301:THR:H	1.60	0.64
1:A:480:ARG:HE	1:A:482:GLY:H	1.44	0.64
2:B:120:HIS:ND1	2:B:147:ASP:OD1	2.26	0.64
4:D:1340:TYR:CE2	4:D:1352:LEU:HD11	2.32	0.64
4:M:914:ALA:HB2	4:M:929:CYS:CB	2.28	0.64
8:Q:174:ASN:HA	8:Q:177:ILE:HD12	1.79	0.64
8:Q:525:TRP:HB3	8:Q:533:LEU:HD11	1.78	0.64
8:Q:889:ARG:HA	8:Q:892:LEU:HD12	1.80	0.64
9:R:853:PHE:HD1	9:R:881:PHE:HD1	1.46	0.64
10:S:783:GLN:OE1	10:S:794:ALA:N	2.30	0.64
11:T:382:SER:HB3	11:T:446:ILE:HD12	1.80	0.64
2:B:70:CYS:HB3	2:B:108:GLN:HG3	1.78	0.64
9:I:99:MET:HG3	9:I:100:ALA:H	1.63	0.64
4:M:343:LYS:HG3	4:M:397:LEU:HD23	1.79	0.64
7:P:107:ASN:OD1	7:P:108:SER:N	2.30	0.64
8:Q:346:ARG:NH2	8:Q:438:ASP:OD1	2.30	0.64
10:S:992:LEU:HD21	10:S:1000:ALA:HB3	1.80	0.64
10:S:1090:SER:HA	10:S:1093:GLN:HE21	1.62	0.64
11:T:465:GLU:HA	11:T:468:TYR:HD2	1.63	0.64
12:U:483:LEU:HD23	12:U:485:ARG:H	1.63	0.64
1:A:299:MET:SD	1:A:305:PHE:HB2	2.38	0.64
1:A:518:ASP:HA	1:A:521:ASP:HB2	1.77	0.64
4:D:55:GLU:HA	4:D:814:SER:H	1.61	0.64
6:F:255:TRP:HB3	7:G:271:ILE:HG22	1.79	0.64
6:F:784:ALA:HA	6:F:795:TRP:HE1	1.63	0.64
7:G:20:GLN:HB2	7:G:65:TRP:HE1	1.63	0.64
8:H:199:SER:HA	8:H:202:TRP:HE3	1.63	0.64
8:H:436:TRP:CB	8:H:498:GLU:CD	2.66	0.64
2:K:140:GLU:OE1	2:K:162:ARG:NH2	2.31	0.64
3:L:61:TRP:N	3:L:77:CYS:O	2.30	0.64
8:Q:331:ARG:O	8:Q:335:ILE:HG12	1.98	0.64
9:R:206:VAL:HG11	9:R:289:LEU:HD12	1.80	0.64
10:S:338:ARG:HG2	10:S:399:LEU:HB3	1.79	0.64
10:S:979:MET:O	10:S:983:HIS:ND1	2.31	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1464:ASP:O	10:S:1467:SER:OG	2.11	0.64
1:A:112:CYS:O	1:A:116:MET:HB2	1.98	0.64
6:F:757:LYS:HB3	6:F:761:ARG:HH12	1.62	0.64
9:I:752:ALA:HB2	9:I:799:ASP:HB3	1.79	0.64
9:I:870:GLN:HA	9:I:873:MET:HE2	1.80	0.64
1:J:84:LYS:O	2:K:309:ARG:NH2	2.31	0.64
1:J:497:ALA:O	1:J:501:SER:OG	2.09	0.64
1:J:637:LEU:O	1:J:641:LEU:HG	1.98	0.64
6:O:324:PRO:HB2	6:O:636:HIS:CE1	2.33	0.64
7:P:218:ALA:O	7:P:269:TRP:NE1	2.27	0.64
8:Q:302:LEU:HD23	12:U:111:LEU:HD21	1.79	0.64
10:S:877:GLU:N	10:S:877:GLU:OE2	2.30	0.64
1:A:306:LEU:HD13	1:A:329:SER:HB2	1.80	0.63
2:B:6:ALA:HB2	2:B:63:GLN:HB2	1.80	0.63
6:F:612:GLN:CA	12:U:183:MET:HG3	2.02	0.63
7:G:23:TYR:CZ	7:G:68:PRO:HD3	2.33	0.63
4:M:896:ARG:NH2	5:N:165:ARG:O	2.31	0.63
4:M:1137:GLU:O	6:O:850:ARG:NE	2.31	0.63
7:P:157:SER:O	7:P:182:PHE:HB2	1.98	0.63
8:Q:143:THR:HA	8:Q:146:MET:HE2	1.79	0.63
1:A:507:GLU:OE1	1:A:511:ARG:NH2	2.31	0.63
2:B:225:ASN:ND2	2:B:272:ASP:OD1	2.30	0.63
3:C:55:THR:HG23	3:C:86:TRP:NE1	2.12	0.63
3:C:227:PHE:HB3	3:C:236:HIS:CE1	2.33	0.63
6:F:379:THR:CB	6:F:633:LEU:CD2	2.76	0.63
6:F:648:HIS:CD2	12:U:175:ARG:HH21	2.16	0.63
8:H:688:ARG:HG3	8:H:689:LYS:HD2	1.80	0.63
5:N:185:GLU:HB3	5:N:189:THR:HG22	1.80	0.63
6:O:498:ILE:HG13	8:Q:314:LEU:HD22	1.80	0.63
7:P:33:SER:HA	7:P:35:ARG:HH21	1.63	0.63
7:P:264:VAL:HA	7:P:280:GLY:HA2	1.80	0.63
8:Q:335:ILE:HA	8:Q:338:LEU:HD12	1.79	0.63
10:S:756:TRP:NE1	10:S:839:LEU:HB2	2.13	0.63
12:U:671:ILE:HG12	12:U:674:ARG:HH21	1.63	0.63
1:A:330:LEU:HD23	1:A:334:LEU:HD23	1.79	0.63
2:B:262:TRP:CD1	2:B:278:SER:HB3	2.33	0.63
4:D:41:ASN:HD21	4:D:429:ARG:HH11	1.46	0.63
8:H:206:GLN:HB2	8:H:503:TYR:HD2	1.63	0.63
8:H:297:LYS:O	8:H:301:MET:HB2	1.99	0.63
1:J:472:ALA:HB2	1:J:487:TRP:HB2	1.79	0.63
1:J:572:TRP:HD1	1:J:575:LEU:HD22	1.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:66:ALA:HB3	3:L:73:VAL:HB	1.80	0.63
4:M:395:GLU:HA	9:R:184:HIS:HE1	1.63	0.63
4:M:1350:ALA:O	4:M:1354:LEU:HG	1.99	0.63
6:O:859:ARG:NH2	6:O:862:ASN:OD1	2.31	0.63
7:P:83:VAL:O	7:P:98:GLU:HA	1.98	0.63
9:R:200:CYS:HB3	9:R:213:LEU:HD11	1.81	0.63
9:R:223:LEU:HD22	9:R:233:GLN:HG3	1.78	0.63
12:U:451:GLU:O	12:U:457:ASN:N	2.32	0.63
1:A:16:LEU:H	1:A:19:GLN:NE2	1.97	0.63
3:C:208:LYS:HZ3	3:C:209:TYR:HB2	1.64	0.63
6:F:324:PRO:HB3	6:F:355:TYR:CE1	2.33	0.63
8:H:434:GLU:O	8:H:494:ARG:CB	2.46	0.63
8:H:436:TRP:HE1	8:H:487:LEU:HD21	1.63	0.63
1:J:428:LEU:HB3	1:J:432:TYR:CE2	2.33	0.63
4:M:895:VAL:HG11	4:M:913:LEU:HD13	1.80	0.63
7:P:72:ASN:ND2	7:P:88:GLU:OE1	2.27	0.63
11:T:882:LEU:O	11:T:885:ARG:NH1	2.31	0.63
11:T:899:SER:N	11:T:902:ASN:OD1	2.31	0.63
1:A:87:GLU:O	2:B:316:ASN:ND2	2.32	0.63
1:A:157:ALA:HB2	1:A:317:VAL:HG22	1.81	0.63
3:C:250:MET:HG3	3:C:268:ILE:HG12	1.81	0.63
5:E:218:VAL:HG11	5:E:261:LYS:HA	1.79	0.63
6:F:614:ASP:N	12:U:187:ARG:HH22	1.97	0.63
6:F:902:GLU:HA	6:F:905:ALA:HB3	1.81	0.63
1:J:129:LYS:NZ	1:J:133:GLN:OE1	2.25	0.63
4:M:619:TYR:HB2	4:M:657:ILE:HD13	1.80	0.63
5:N:149:CYS:HB3	5:N:162:PHE:HB2	1.80	0.63
8:Q:181:LYS:HD3	8:Q:201:LEU:HD21	1.81	0.63
8:Q:868:LEU:HD23	8:Q:868:LEU:C	2.19	0.63
10:S:1785:LEU:HD12	10:S:1965:GLU:HB3	1.80	0.63
1:A:310:LEU:HD12	1:A:314:HIS:HB2	1.80	0.63
1:A:455:CYS:SG	1:A:460:MET:HB3	2.39	0.63
3:C:88:GLU:OE2	3:C:102:HIS:N	2.26	0.63
4:D:1056:ASN:HA	6:F:910:ARG:CZ	2.28	0.63
4:D:1192:ARG:HG2	4:D:1206:ALA:HB1	1.79	0.63
7:G:59:PRO:HD2	7:G:79:TYR:HB3	1.81	0.63
7:G:110:CYS:O	7:G:158:TRP:NE1	2.22	0.63
8:H:908:ASP:HB2	8:H:914:ILE:HA	1.80	0.63
3:L:26:ARG:NH1	3:L:40:ASP:HB3	2.13	0.63
4:M:1382:TRP:CD2	7:P:59:PRO:HD3	2.34	0.63
4:M:1401:ASN:HB3	10:S:790:GLU:HG2	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:227:VAL:HG13	5:N:257:PHE:HB2	1.80	0.63
6:O:538:HIS:HA	6:O:542:MET:HG2	1.79	0.63
12:U:93:VAL:O	12:U:94:LYS:NZ	2.24	0.63
1:A:548:GLN:HG2	1:A:550:GLN:HG2	1.80	0.63
4:D:1180:ARG:HH12	4:D:1233:THR:HA	1.63	0.63
5:E:191:ARG:NH1	5:E:202:LEU:O	2.32	0.63
6:F:752:TRP:HB2	6:F:792:ILE:HD11	1.79	0.63
8:H:833:ARG:O	8:H:837:MET:HB2	1.99	0.63
1:J:342:PRO:O	1:J:346:ILE:HG12	1.99	0.63
4:M:124:LEU:HB2	4:M:184:GLN:HA	1.80	0.63
10:S:316:ASN:HB2	10:S:318:GLN:HE22	1.63	0.63
10:S:1910:TYR:O	10:S:2010:ARG:NH1	2.30	0.63
11:T:83:VAL:HG22	11:T:96:VAL:HG22	1.81	0.63
12:U:25:GLU:OE2	12:U:33:LEU:N	2.28	0.63
1:A:432:TYR:HB3	1:A:436:HIS:CE1	2.34	0.63
2:B:215:VAL:HG21	2:B:236:ASP:H	1.63	0.63
7:G:128:ALA:HA	7:G:148:ALA:HB3	1.81	0.63
9:I:894:LYS:HD2	9:I:897:LYS:HD3	1.81	0.63
2:K:319:GLN:OE1	2:K:320:SER:N	2.31	0.63
4:M:682:MET:SD	4:M:767:LEU:HD23	2.39	0.63
8:Q:815:VAL:HG12	8:Q:877:GLN:HG3	1.81	0.63
10:S:262:GLY:HA2	10:S:371:GLU:HG2	1.79	0.63
2:B:167:ALA:N	2:B:202:ASN:OD1	2.27	0.63
3:C:305:TRP:HA	3:C:314:LYS:O	1.98	0.63
8:H:436:TRP:HA	8:H:495:VAL:CG2	2.29	0.63
4:M:344:LEU:HG	4:M:359:VAL:HG22	1.80	0.63
4:M:1180:ARG:NH2	4:M:1183:GLU:OE2	2.31	0.63
10:S:443:ILE:HB	10:S:513:MET:CE	2.29	0.63
10:S:552:TRP:CD1	10:S:615:LEU:HD21	2.34	0.63
10:S:1567:GLN:HA	10:S:1570:ILE:HD12	1.80	0.63
11:T:838:SER:HA	11:T:841:HIS:HD2	1.64	0.63
1:A:55:TYR:OH	3:C:5:ARG:HD3	1.99	0.62
1:A:129:LYS:O	1:A:133:GLN:NE2	2.32	0.62
1:A:439:ARG:CZ	3:C:22:PHE:HA	2.28	0.62
1:A:597:GLU:HA	1:A:600:ARG:NE	2.13	0.62
3:C:38:VAL:HB	3:C:51:ALA:HB3	1.81	0.62
3:C:82:THR:HG22	3:C:110:VAL:HA	1.81	0.62
5:E:84:THR:OG1	5:E:92:LEU:O	2.13	0.62
2:K:101:PHE:HE1	2:K:112:VAL:HG22	1.63	0.62
2:K:251:MET:N	2:K:251:MET:SD	2.72	0.62
3:L:141:ILE:HB	3:L:157:HIS:HB2	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:157:HIS:CE1	3:L:208:LYS:HG2	2.33	0.62
7:P:35:ARG:HH22	7:P:60:VAL:H	1.44	0.62
8:Q:208:MET:HA	8:Q:211:TRP:HD1	1.63	0.62
9:R:567:GLU:OE2	9:R:573:ALA:N	2.32	0.62
10:S:955:GLU:O	10:S:977:ARG:NH2	2.32	0.62
10:S:1485:CYS:O	10:S:1492:ARG:NH2	2.32	0.62
1:A:254:LEU:O	1:A:257:GLN:HG2	1.99	0.62
2:B:8:LYS:HB2	2:B:367:ILE:HG22	1.80	0.62
4:D:1092:ASN:HB2	4:D:1095:LYS:HE2	1.81	0.62
6:F:538:HIS:HA	6:F:542:MET:HG2	1.80	0.62
6:F:557:GLU:HA	6:F:560:PHE:CE2	2.34	0.62
6:F:661:TYR:HA	6:F:664:GLN:HG2	1.81	0.62
6:F:892:ALA:HA	6:F:895:ILE:HG12	1.81	0.62
8:H:125:ASP:HB3	8:H:186:ARG:HH22	1.63	0.62
1:J:93:SER:HA	2:K:318:ASN:H	1.64	0.62
4:M:449:ALA:N	9:R:127:SER:OG	2.30	0.62
4:M:934:ALA:HA	4:M:937:VAL:HG13	1.81	0.62
8:Q:242:LYS:NZ	8:Q:375:TYR:O	2.26	0.62
8:Q:718:TRP:HE1	8:Q:724:ASP:HA	1.64	0.62
9:R:332:TYR:HA	9:R:346:SER:HA	1.81	0.62
10:S:400:MET:HB3	10:S:403:LYS:HB2	1.81	0.62
10:S:536:GLY:N	10:S:553:ASP:OD2	2.30	0.62
2:B:194:LEU:HB3	2:B:206:GLN:HB3	1.81	0.62
3:C:249:THR:O	3:C:268:ILE:HA	1.99	0.62
1:J:245:GLY:HA3	10:S:1576:GLY:HA3	1.79	0.62
4:M:346:LEU:HB2	4:M:355:LEU:HD21	1.81	0.62
6:O:386:LEU:HB2	6:O:387:TRP:CE3	2.33	0.62
8:Q:335:ILE:HD13	8:Q:338:LEU:HD12	1.81	0.62
10:S:823:GLY:HA2	10:S:839:LEU:HD11	1.81	0.62
11:T:503:LYS:O	11:T:565:ARG:NH2	2.32	0.62
12:U:383:SER:H	12:U:389:ARG:HD2	1.64	0.62
4:D:1014:SER:HB3	11:T:927:THR:HG21	1.79	0.62
6:F:917:LEU:HD22	11:T:953:VAL:HG13	1.80	0.62
6:O:504:ARG:O	6:O:508:LEU:HG	2.00	0.62
8:Q:297:LYS:O	8:Q:301:MET:HB2	1.99	0.62
8:Q:534:LEU:H	8:Q:537:LEU:HD13	1.64	0.62
9:R:624:LEU:HD22	9:R:729:ARG:HH12	1.64	0.62
10:S:762:VAL:HG22	10:S:766:PHE:CE2	2.35	0.62
10:S:859:ARG:NH1	10:S:863:LEU:HD11	2.14	0.62
12:U:456:VAL:HB	12:U:463:TYR:HB2	1.80	0.62
6:F:387:TRP:CE3	6:F:637:MET:CE	2.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:210:HIS:NE2	7:G:238:ARG:O	2.31	0.62
7:G:269:TRP:CD2	7:G:276:LEU:HD13	2.34	0.62
2:K:222:ARG:NH1	2:K:222:ARG:O	2.29	0.62
3:L:120:LYS:HG3	3:L:170:TRP:HE1	1.65	0.62
4:M:65:SER:O	4:M:67:ARG:NH1	2.33	0.62
6:O:335:ASP:HB2	6:O:342:HIS:HB3	1.82	0.62
10:S:1796:GLN:NE2	10:S:1799:GLN:O	2.32	0.62
11:T:159:VAL:HG12	11:T:165:VAL:HG22	1.82	0.62
11:T:473:TYR:O	11:T:491:THR:OG1	2.15	0.62
12:U:254:ALA:O	12:U:258:GLN:NE2	2.33	0.62
2:B:153:PHE:HE1	2:B:160:VAL:HG23	1.65	0.62
4:D:547:ARG:HB2	4:D:565:LYS:HD2	1.81	0.62
5:E:284:HIS:HB2	5:E:291:ILE:HD13	1.81	0.62
9:I:106:GLY:O	9:I:121:LYS:NZ	2.31	0.62
1:J:70:LYS:HA	2:K:245:ARG:HH21	1.64	0.62
4:M:95:LEU:HD21	4:M:176:GLU:H	1.62	0.62
6:O:432:TYR:HA	6:O:436:ARG:HE	1.64	0.62
7:P:35:ARG:HH22	7:P:60:VAL:N	1.97	0.62
7:P:219:TRP:HA	7:P:230:ILE:HG13	1.81	0.62
8:Q:685:ALA:HA	8:Q:688:ARG:HE	1.65	0.62
9:R:863:THR:OG1	9:R:868:ARG:NH2	2.32	0.62
9:R:888:TRP:HA	9:R:891:GLU:OE1	1.99	0.62
10:S:1590:ARG:HG2	10:S:1592:GLU:HG3	1.82	0.62
11:T:579:ARG:O	11:T:582:LEU:HG	1.99	0.62
11:T:702:SER:OG	11:T:706:LYS:NZ	2.32	0.62
12:U:220:ASN:OD1	12:U:221:VAL:N	2.33	0.62
4:D:108:TYR:OH	4:D:129:ARG:NH1	2.33	0.62
6:F:386:LEU:O	6:F:608:TYR:CZ	2.52	0.62
8:H:771:ALA:N	8:H:775:GLU:OE1	2.27	0.62
1:J:120:SER:O	1:J:124:ARG:NH1	2.33	0.62
1:J:299:MET:HE1	1:J:305:PHE:HB2	1.81	0.62
1:J:501:SER:O	1:J:505:LEU:HG	1.99	0.62
2:K:154:ARG:HG2	2:K:161:LEU:HD22	1.81	0.62
2:K:228:HIS:ND1	2:K:243:ASP:OD1	2.33	0.62
8:Q:309:PRO:HG2	8:Q:325:PRO:HG2	1.82	0.62
9:R:778:ASP:H	9:R:781:LEU:HD22	1.64	0.62
10:S:1180:ILE:HA	10:S:1183:ILE:HD12	1.82	0.62
1:A:302:TRP:CH2	1:A:347:LEU:HD11	2.35	0.62
2:B:323:CYS:SG	2:B:324:ALA:N	2.73	0.62
4:D:472:ILE:HD12	4:D:815:GLY:HA2	1.81	0.62
4:D:1270:ASN:ND2	4:D:1270:ASN:O	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1342:LYS:O	4:D:1342:LYS:NZ	2.27	0.62
5:E:255:ARG:CZ	5:E:273:PRO:HG3	2.30	0.62
6:F:607:LEU:HD22	6:F:618:LEU:CD1	2.29	0.62
2:K:204:PRO:HG2	2:K:207:ILE:HD11	1.82	0.62
4:M:331:SER:HB2	4:M:334:ILE:HG13	1.81	0.62
6:O:716:GLN:OE1	6:O:717:ARG:NH1	2.32	0.62
10:S:358:GLU:OE2	10:S:403:LYS:NZ	2.33	0.62
10:S:734:GLN:HG3	10:S:737:ARG:HH21	1.63	0.62
12:U:338:VAL:HG22	12:U:341:ARG:HH21	1.64	0.62
1:A:251:GLU:HA	1:A:254:LEU:HD12	1.81	0.62
1:A:385:PHE:O	1:A:389:ASN:ND2	2.21	0.62
3:C:240:VAL:HB	3:C:246:ARG:HB2	1.81	0.62
4:D:924:HIS:CD2	5:E:74:ARG:HH12	2.18	0.62
7:G:124:SER:O	7:G:153:CYS:HB3	2.00	0.62
8:H:355:ARG:HH22	8:H:358:LYS:HZ2	1.47	0.62
1:J:58:ARG:HG2	1:J:64:TYR:HE2	1.65	0.62
2:K:288:ALA:HB3	2:K:335:LEU:HA	1.80	0.62
3:L:202:TYR:HA	3:L:209:TYR:HA	1.80	0.62
6:O:386:LEU:HB2	6:O:387:TRP:CZ3	2.35	0.62
7:P:81:ARG:HD3	7:P:102:HIS:HD2	1.65	0.62
9:R:268:VAL:HG12	9:R:278:THR:HG22	1.81	0.62
9:R:918:HIS:O	9:R:921:TRP:NE1	2.32	0.62
9:R:1049:ASP:HB3	9:R:1052:GLU:HB3	1.81	0.62
2:B:10:VAL:HG12	2:B:366:ALA:HA	1.82	0.62
4:D:1180:ARG:HH22	4:D:1233:THR:HG23	1.65	0.62
4:D:1303:THR:HA	4:D:1306:HIS:HD2	1.64	0.62
4:D:1322:ASN:OD1	4:D:1323:TRP:N	2.33	0.62
6:F:386:LEU:HB2	6:F:387:TRP:CZ3	2.35	0.62
7:G:63:VAL:HA	7:G:75:ALA:O	1.99	0.62
8:H:309:PRO:HG2	8:H:325:PRO:HG2	1.82	0.62
1:J:4:LEU:HD22	1:J:364:ILE:HD11	1.82	0.62
1:J:449:LEU:HA	1:J:452:LEU:HD12	1.82	0.62
3:L:246:ARG:NH2	3:L:275:ASP:OD1	2.33	0.62
4:M:446:ASP:OD1	9:R:130:LEU:N	2.33	0.62
5:N:151:ILE:O	5:N:159:ILE:N	2.33	0.62
6:O:760:THR:OG1	6:O:761:ARG:NH1	2.32	0.62
8:Q:201:LEU:HD12	8:Q:205:GLN:HE22	1.63	0.62
8:Q:233:GLU:OE2	8:Q:251:ARG:NE	2.33	0.62
10:S:307:ILE:HD12	10:S:347:LEU:HB3	1.82	0.62
4:D:329:PRO:HB2	11:T:68:TYR:HE2	1.64	0.61
7:G:105:SER:O	7:G:124:SER:OG	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:545:LEU:HA	8:H:548:PHE:HD2	1.65	0.61
9:I:824:ALA:O	9:I:827:ARG:HD3	1.99	0.61
9:I:854:ASP:OD1	9:I:855:ILE:N	2.32	0.61
4:M:418:ASN:ND2	4:M:543:GLU:OE1	2.25	0.61
5:N:255:ARG:NH1	5:N:299:GLY:O	2.33	0.61
9:R:679:VAL:HA	9:R:682:MET:HE3	1.81	0.61
10:S:264:LEU:H	10:S:376:SER:HB2	1.64	0.61
10:S:1079:ARG:HA	10:S:1082:ARG:NE	2.15	0.61
10:S:1648:LEU:HD21	10:S:1678:ILE:HG21	1.82	0.61
11:T:5:GLU:HG2	11:T:430:SER:HB2	1.82	0.61
3:C:296:SER:HB2	3:C:302:VAL:HG22	1.81	0.61
4:D:793:ASN:ND2	4:D:883:MET:O	2.33	0.61
6:F:722:ALA:HA	6:F:725:ILE:HG12	1.81	0.61
9:I:674:VAL:HA	9:I:677:ARG:HH11	1.65	0.61
9:I:888:TRP:HZ3	9:I:894:LYS:HZ1	1.48	0.61
9:I:993:PRO:HB2	9:I:996:LEU:HB2	1.83	0.61
1:J:97:GLN:O	1:J:101:VAL:HG22	2.00	0.61
1:J:115:GLU:O	1:J:118:THR:OG1	2.16	0.61
4:M:604:SER:OG	4:M:669:ARG:NH2	2.31	0.61
6:O:428:GLU:HG3	6:O:431:LEU:HD12	1.82	0.61
7:P:95:LYS:CE	7:P:98:GLU:HB2	2.29	0.61
8:Q:362:GLN:O	8:Q:365:ARG:N	2.33	0.61
9:R:275:CYS:SG	9:R:370:TYR:HA	2.40	0.61
9:R:871:ARG:HH12	9:R:875:LEU:HG	1.66	0.61
10:S:448:ARG:HH11	10:S:516:GLY:N	1.98	0.61
10:S:1140:LEU:HD11	10:S:1180:ILE:HB	1.81	0.61
10:S:1338:PHE:CE1	10:S:1422:GLY:HA3	2.34	0.61
10:S:1428:LEU:HD12	10:S:1431:ALA:HB3	1.82	0.61
12:U:33:LEU:O	12:U:37:GLN:HG2	2.00	0.61
12:U:169:GLU:OE2	12:U:487:ARG:NH2	2.33	0.61
4:D:1000:ARG:HB2	4:D:1023:ILE:HD11	1.82	0.61
4:D:1078:ASN:HB2	4:D:1081:GLU:HG2	1.81	0.61
5:E:11:TYR:HB2	5:E:321:PHE:HB2	1.80	0.61
5:E:272:TYR:HE2	5:E:275:LYS:HG2	1.63	0.61
7:G:192:LYS:HB3	7:G:194:TRP:CH2	2.35	0.61
7:G:284:LYS:HD3	7:G:303:ASN:HA	1.82	0.61
1:J:354:ASP:HB3	1:J:357:GLN:HG2	1.81	0.61
2:K:184:LEU:HD21	2:K:192:LEU:HD22	1.83	0.61
9:R:167:LEU:HD11	9:R:182:ILE:HG22	1.81	0.61
9:R:866:GLN:O	9:R:870:GLN:HG2	2.00	0.61
10:S:1609:PRO:O	10:S:1614:ARG:NH1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:224:SER:N	11:T:238:GLY:O	2.33	0.61
12:U:610:ILE:HG21	12:U:633:ALA:HB2	1.81	0.61
6:F:386:LEU:HB2	6:F:387:TRP:CE3	2.34	0.61
6:F:660:SER:O	6:F:664:GLN:NE2	2.21	0.61
6:F:724:TRP:HA	6:F:727:LYS:HD2	1.81	0.61
7:G:230:ILE:O	7:G:241:ILE:HA	1.99	0.61
9:I:572:GLU:HB2	11:T:575:ALA:HB1	1.83	0.61
1:J:266:HIS:HB3	1:J:272:PHE:HB2	1.82	0.61
9:R:567:GLU:HG2	9:R:572:GLU:HA	1.81	0.61
1:A:490:ARG:NE	1:A:490:ARG:HA	2.15	0.61
3:C:287:ASN:OD1	3:C:291:THR:N	2.29	0.61
4:D:1338:ARG:NH1	4:D:1339:LEU:HD22	2.15	0.61
9:I:1075:ASP:HA	9:R:578:ASN:O	1.99	0.61
1:J:489:ILE:HB	2:K:26:SER:HA	1.83	0.61
4:M:1143:GLN:HB3	4:M:1177:LEU:HD21	1.83	0.61
12:U:399:ASP:H	12:U:433:GLN:HE21	1.49	0.61
1:A:439:ARG:NH1	3:C:21:ASP:O	2.33	0.61
4:D:1065:ILE:HG21	4:D:1083:LEU:HD21	1.81	0.61
4:D:1380:LEU:HD13	6:F:246:PHE:HD1	1.65	0.61
6:F:341:PRO:HD2	6:F:720:LEU:HD23	1.83	0.61
6:F:607:LEU:HD22	6:F:615:LEU:HD22	1.80	0.61
7:G:67:HIS:CE1	7:G:113:PRO:HA	2.35	0.61
8:H:436:TRP:HB3	8:H:498:GLU:OE2	2.00	0.61
3:L:78:SER:OG	3:L:79:PHE:N	2.31	0.61
4:M:1040:LEU:HD22	4:M:1045:GLN:HB2	1.82	0.61
5:N:250:HIS:NE2	5:N:269:THR:O	2.33	0.61
6:O:475:SER:HB3	8:Q:390:GLU:HA	1.82	0.61
6:O:557:GLU:HA	6:O:560:PHE:CE2	2.34	0.61
8:Q:290:GLU:O	12:U:46:LYS:NZ	2.26	0.61
8:Q:644:HIS:HB3	8:Q:839:LEU:HG	1.83	0.61
9:R:499:GLN:NE2	9:R:503:ASP:OD2	2.33	0.61
1:A:27:TRP:HZ3	3:C:288:ILE:HG12	1.66	0.61
8:H:362:GLN:O	8:H:365:ARG:N	2.33	0.61
9:I:141:SER:OG	9:I:143:SER:OG	2.18	0.61
9:I:767:HIS:HA	9:I:770:ILE:HD12	1.83	0.61
1:J:299:MET:HE3	1:J:305:PHE:HB2	1.81	0.61
3:L:241:ALA:HB1	3:L:281:VAL:HG12	1.83	0.61
4:M:1351:GLU:O	4:M:1354:LEU:N	2.33	0.61
8:Q:678:GLU:HA	8:Q:681:LYS:HD2	1.83	0.61
10:S:896:ILE:HG21	10:S:917:LEU:HD21	1.82	0.61
12:U:242:THR:HB	12:U:246:ARG:HH21	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:565:ARG:CZ	1:A:605:ARG:HH12	2.14	0.61
1:A:565:ARG:HD2	1:A:572:TRP:HH2	1.66	0.61
1:A:599:MET:HA	1:A:602:LEU:HD12	1.83	0.61
4:D:116:GLU:OE2	4:D:185:SER:OG	2.17	0.61
5:E:191:ARG:NH1	5:E:192:PHE:O	2.34	0.61
6:F:240:MET:N	6:F:240:MET:SD	2.74	0.61
9:I:515:ARG:NH1	9:I:527:MET:SD	2.74	0.61
1:J:470:THR:OG1	3:L:69:GLU:OE2	2.19	0.61
4:M:1329:LYS:HG3	4:M:1330:ALA:N	2.15	0.61
9:R:570:PRO:HD3	9:R:677:ARG:HH12	1.66	0.61
9:R:803:GLN:O	9:R:807:ILE:HG12	2.01	0.61
10:S:255:LYS:HE2	10:S:319:PRO:HG2	1.82	0.61
10:S:1709:ARG:NH1	10:S:1944:MET:SD	2.74	0.61
12:U:114:ILE:HG13	12:U:118:ARG:HH12	1.65	0.61
1:A:73:ASN:ND2	2:B:243:ASP:OD1	2.34	0.61
5:E:50:ARG:HH12	5:E:64:LYS:HG2	1.65	0.61
6:F:759:VAL:HG13	6:F:763:LEU:HB2	1.83	0.61
9:I:689:LEU:O	9:I:693:GLU:HG3	2.00	0.61
2:K:184:LEU:HD22	2:K:220:VAL:HG21	1.82	0.61
3:L:254:ARG:C	3:L:255:LYS:HD2	2.21	0.61
8:Q:825:GLU:O	8:Q:834:SER:OG	2.18	0.61
9:R:1000:LYS:HG3	9:R:1018:LEU:HD22	1.81	0.61
10:S:908:GLU:HG2	10:S:909:LEU:H	1.66	0.61
12:U:599:ILE:O	12:U:603:THR:OG1	2.13	0.61
1:A:117:HIS:O	1:A:120:SER:N	2.34	0.61
1:A:360:LYS:O	1:A:364:ILE:HG12	2.01	0.61
2:B:372:ARG:HH11	2:B:373:LEU:H	1.47	0.61
3:C:272:ALA:HB1	3:C:274:PHE:CE2	2.35	0.61
3:C:277:HIS:HA	3:C:303:ARG:HH21	1.64	0.61
4:D:121:ILE:HD12	4:D:183:ILE:HG21	1.83	0.61
6:F:603:HIS:HA	6:F:606:LYS:HE2	1.83	0.61
7:G:35:ARG:CB	7:G:54:ARG:HH12	2.13	0.61
8:H:262:VAL:HG13	8:H:445:LYS:HZ1	1.65	0.61
8:H:628:LYS:NZ	8:H:678:GLU:HB3	2.16	0.61
4:M:312:SER:HB3	4:M:315:ASP:HB2	1.82	0.61
5:N:33:GLY:HA2	5:N:50:ARG:NE	2.15	0.61
9:R:438:GLY:HA2	9:R:456:ARG:HD3	1.82	0.61
10:S:304:ARG:NH1	10:S:305:GLN:OE1	2.33	0.61
11:T:508:LEU:O	11:T:512:ILE:HG12	2.00	0.61
1:A:137:LEU:HD23	1:A:140:MET:HE2	1.82	0.60
2:B:42:GLU:H	2:B:44:LYS:HE2	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:170:SER:OG	2:B:171:THR:N	2.34	0.60
4:D:39:SER:N	4:D:598:ASP:OD1	2.34	0.60
6:F:401:ASN:HB3	6:F:404:VAL:HG23	1.82	0.60
7:G:14:ASP:OD2	7:G:33:SER:OG	2.12	0.60
8:H:210:THR:HG23	8:H:507:GLN:HG3	1.82	0.60
1:J:73:ASN:HB3	2:K:245:ARG:NH2	2.16	0.60
6:O:347:PRO:HA	6:O:643:ALA:HA	1.83	0.60
10:S:641:ALA:HB2	10:S:700:LEU:HD13	1.83	0.60
4:D:1358:ASP:HA	4:D:1361:LEU:HD12	1.82	0.60
6:F:372:VAL:HG12	6:F:626:PRO:HD3	1.84	0.60
6:F:538:HIS:HE1	6:F:556:TYR:CD1	2.19	0.60
4:M:1251:ARG:O	4:M:1254:GLN:NE2	2.35	0.60
5:N:147:HIS:HB2	5:N:164:LEU:HB2	1.83	0.60
6:O:373:VAL:HA	6:O:376:TRP:CE3	2.36	0.60
7:P:44:ASN:HB2	10:S:568:ARG:HH21	1.64	0.60
8:Q:732:ASP:HA	8:Q:735:ILE:HD12	1.82	0.60
10:S:327:ALA:HB1	10:S:360:ALA:HA	1.81	0.60
12:U:541:GLU:HB2	12:U:542:PRO:HD3	1.83	0.60
3:C:106:ARG:CZ	3:C:150:LEU:HB2	2.31	0.60
3:C:254:ARG:HE	3:C:255:LYS:N	1.99	0.60
4:D:1087:HIS:CE1	4:D:1099:VAL:HG21	2.36	0.60
5:E:274:GLY:HA2	5:E:298:VAL:HA	1.83	0.60
6:F:723:GLN:HG3	6:F:724:TRP:CD1	2.36	0.60
8:H:903:LEU:HD13	9:I:922:LEU:HD12	1.83	0.60
1:J:299:MET:HG3	1:J:300:THR:N	2.16	0.60
1:J:377:ASP:OD1	1:J:378:LEU:N	2.34	0.60
2:K:74:HIS:CD2	2:K:78:VAL:HG22	2.36	0.60
6:O:711:GLU:O	6:O:715:ILE:HG12	2.01	0.60
8:Q:177:ILE:HG23	8:Q:181:LYS:HE2	1.83	0.60
10:S:337:LEU:HD22	10:S:349:PHE:HB2	1.83	0.60
10:S:1103:GLU:OE1	10:S:1277:LYS:NZ	2.33	0.60
10:S:1321:LEU:HD23	10:S:1408:LYS:NZ	2.16	0.60
12:U:594:ARG:HH21	12:U:607:LYS:HE2	1.66	0.60
1:A:595:THR:HA	1:A:598:LEU:HD12	1.83	0.60
4:D:99:ARG:NH1	4:D:100:ASN:OD1	2.34	0.60
7:G:88:GLU:HB2	7:G:93:TRP:CD2	2.36	0.60
2:K:15:SER:HB3	2:K:38:TRP:HB3	1.83	0.60
4:M:340:THR:HG23	9:R:187:THR:HA	1.83	0.60
6:O:401:ASN:HB3	6:O:404:VAL:HG23	1.82	0.60
7:P:216:ASP:HB2	7:P:265:TRP:O	2.00	0.60
8:Q:413:LYS:HG2	8:Q:416:ARG:HH21	1.67	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:331:LEU:HD11	10:S:396:PHE:HE1	1.67	0.60
10:S:653:SER:HB2	10:S:656:ILE:HB	1.82	0.60
12:U:723:LEU:HA	12:U:789:GLN:HB2	1.83	0.60
1:A:35:TYR:HA	1:A:55:TYR:CD2	2.37	0.60
1:A:449:LEU:O	1:A:453:ARG:NH1	2.35	0.60
8:H:413:LYS:HG2	8:H:416:ARG:HH21	1.67	0.60
9:I:902:PRO:HD2	9:I:905:GLN:NE2	2.16	0.60
9:I:1067:TRP:CE3	9:I:1124:PHE:HA	2.36	0.60
1:J:206:ARG:NH2	1:J:209:GLU:OE1	2.33	0.60
4:M:73:VAL:H	4:M:158:ASN:ND2	2.00	0.60
4:M:1121:VAL:HG22	4:M:1189:ALA:HB1	1.84	0.60
4:M:1365:HIS:HB2	4:M:1370:ILE:HB	1.82	0.60
6:O:664:GLN:HA	6:O:667:ASN:HD22	1.66	0.60
10:S:443:ILE:HB	10:S:513:MET:HE1	1.83	0.60
10:S:1089:PHE:O	10:S:1093:GLN:HG3	2.01	0.60
1:A:576:LEU:HD13	1:A:602:LEU:HD11	1.84	0.60
4:D:1365:HIS:CG	4:D:1372:ALA:H	2.18	0.60
6:F:432:TYR:HA	6:F:436:ARG:HE	1.64	0.60
3:L:196:LYS:H	3:L:218:VAL:HB	1.67	0.60
4:M:1189:ALA:HA	4:M:1192:ARG:HE	1.66	0.60
8:Q:657:GLU:OE1	8:Q:657:GLU:N	2.32	0.60
9:R:558:TYR:HE1	9:R:678:GLU:HA	1.66	0.60
10:S:567:ARG:HH22	10:S:633:CYS:HB2	1.66	0.60
10:S:774:GLU:HA	10:S:856:LYS:HZ2	1.66	0.60
10:S:1711:GLN:NE2	10:S:1762:TYR:OH	2.35	0.60
12:U:88:GLU:H	12:U:92:PRO:HD3	1.67	0.60
12:U:262:TYR:O	12:U:265:GLN:HG2	2.01	0.60
4:D:1289:ARG:HE	4:D:1292:ILE:HD12	1.66	0.60
6:F:373:VAL:HA	6:F:376:TRP:CE3	2.36	0.60
8:H:242:LYS:NZ	8:H:375:TYR:O	2.26	0.60
3:L:83:ALA:O	3:L:108:THR:HA	2.01	0.60
3:L:248:PHE:CE1	3:L:270:THR:HG23	2.34	0.60
4:M:101:ARG:HG2	4:M:118:SER:HB2	1.81	0.60
4:M:257:LEU:HD22	4:M:311:TRP:HB3	1.82	0.60
6:O:538:HIS:HE1	6:O:556:TYR:CD1	2.19	0.60
7:P:156:VAL:HG13	7:P:184:SER:HB3	1.83	0.60
8:Q:181:LYS:HD3	8:Q:201:LEU:HD11	1.84	0.60
8:Q:355:ARG:HH22	8:Q:358:LYS:HZ2	1.50	0.60
8:Q:530:LYS:HE3	8:Q:570:ARG:HE	1.66	0.60
10:S:702:ARG:O	10:S:706:GLN:NE2	2.35	0.60
10:S:1331:PRO:HG3	10:S:1415:ARG:HH22	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:585:GLY:HA2	4:D:588:LEU:HD13	1.84	0.60
6:F:323:LEU:HG	6:F:358:TRP:CE2	2.36	0.60
6:F:575:PRO:CG	6:F:597:GLN:NE2	2.64	0.60
1:J:503:ARG:HD2	1:J:506:LYS:NZ	2.16	0.60
3:L:301:THR:OG1	3:L:303:ARG:NH2	2.31	0.60
4:M:257:LEU:HD23	4:M:316:GLN:HA	1.83	0.60
4:M:1100:MET:O	4:M:1123:SER:HB3	2.01	0.60
4:M:1310:ILE:HA	4:M:1313:LEU:HD12	1.84	0.60
8:Q:177:ILE:HG12	8:Q:205:GLN:HE21	1.67	0.60
8:Q:262:VAL:HG13	8:Q:445:LYS:HZ1	1.65	0.60
8:Q:694:LYS:HE2	12:U:811:ARG:HG3	1.83	0.60
10:S:366:PHE:HE2	10:S:435:ASP:HB3	1.65	0.60
10:S:1087:PHE:O	10:S:1091:GLN:HG3	2.02	0.60
10:S:1306:GLN:O	10:S:1310:ARG:NE	2.32	0.60
10:S:1325:ALA:HB3	10:S:1329:LEU:HD23	1.83	0.60
12:U:285:GLY:H	12:U:287:VAL:HG23	1.66	0.60
1:A:133:GLN:HA	1:A:136:ILE:HG12	1.83	0.60
6:F:328:GLU:HG3	6:F:355:TYR:OH	1.98	0.60
6:F:553:LEU:HD13	6:F:605:LEU:HB3	1.82	0.60
6:F:733:SER:HB2	6:F:742:GLU:HG3	1.84	0.60
1:J:368:ASN:HB2	1:J:370:TRP:CZ3	2.37	0.60
4:M:304:GLN:HA	4:M:338:ALA:HB1	1.81	0.60
4:M:1217:LEU:HD21	10:S:613:LEU:HD13	1.84	0.60
7:P:211:SER:H	7:P:238:ARG:NH2	1.98	0.60
8:Q:201:LEU:CD1	8:Q:205:GLN:HE22	2.14	0.60
8:Q:303:SER:OG	12:U:107:ASP:OD2	2.09	0.60
9:R:306:LEU:HD13	9:R:363:VAL:HG11	1.81	0.60
9:R:983:GLU:HA	9:R:986:LEU:HD12	1.84	0.60
10:S:1282:GLU:HG3	10:S:1332:ILE:HD11	1.83	0.60
11:T:633:LEU:HB3	11:T:655:GLN:HE21	1.65	0.60
1:A:19:GLN:OE1	3:C:6:SER:N	2.35	0.60
2:B:117:GLU:O	2:B:128:ARG:NH2	2.34	0.60
3:C:191:PRO:HA	3:C:219:SER:HB2	1.82	0.60
7:G:196:GLU:HB2	7:G:201:TRP:CE2	2.37	0.60
8:H:788:MET:HG3	2:K:55:ALA:N	2.17	0.60
9:I:99:MET:HE2	9:I:113:CYS:HA	1.84	0.60
3:L:245:VAL:HB	3:L:274:PHE:O	2.01	0.60
5:N:273:PRO:HB3	5:N:278:SER:HB3	1.84	0.60
6:O:343:PHE:O	6:O:680:HIS:HA	2.02	0.60
7:P:67:HIS:CD2	7:P:69:MET:H	2.20	0.60
8:Q:217:LEU:HD22	8:Q:218:TYR:CE1	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:536:HIS:CE1	8:Q:537:LEU:HD12	2.36	0.60
9:R:812:ASN:HB3	9:R:815:ARG:NE	2.17	0.60
10:S:1305:ARG:NH1	10:S:1306:GLN:OE1	2.34	0.60
10:S:1489:ASP:OD1	10:S:1490:ILE:N	2.34	0.60
12:U:552:PHE:HZ	12:U:574:LEU:HG	1.66	0.60
1:A:145:ASN:O	1:A:149:ILE:HG12	2.02	0.59
1:A:309:ARG:HH11	1:A:329:SER:HB2	1.67	0.59
4:D:953:GLU:O	4:D:960:GLN:NE2	2.34	0.59
6:F:499:GLN:OE1	6:F:499:GLN:N	2.35	0.59
7:G:66:ALA:HB3	7:G:73:ILE:HB	1.82	0.59
2:K:210:VAL:HA	2:K:250:PRO:HG3	1.82	0.59
6:O:499:GLN:N	6:O:499:GLN:OE1	2.35	0.59
10:S:279:LEU:HD11	10:S:336:ALA:HB2	1.84	0.59
11:T:727:ILE:HB	11:T:734:ILE:HG21	1.84	0.59
1:A:149:ILE:HB	1:A:163:LEU:HD13	1.84	0.59
1:A:345:ASN:HA	1:A:348:LEU:HD12	1.84	0.59
1:A:580:LEU:HB3	1:A:581:PRO:HD3	1.83	0.59
4:D:147:THR:OG1	4:D:150:ASN:O	2.15	0.59
4:D:472:ILE:HG12	4:D:476:GLN:HE22	1.67	0.59
4:D:1320:LEU:HD12	4:D:1324:LEU:HD23	1.83	0.59
6:F:290:LYS:O	7:G:47:GLN:NE2	2.35	0.59
9:I:156:THR:HA	9:I:207:LYS:HA	1.84	0.59
3:L:172:PRO:HB2	3:L:230:ASN:HB2	1.84	0.59
4:M:1121:VAL:HG21	4:M:1193:LEU:HD12	1.84	0.59
7:P:257:LEU:HA	7:P:296:TRP:CD1	2.37	0.59
8:Q:344:LEU:O	8:Q:349:MET:N	2.24	0.59
10:S:379:PHE:HZ	10:S:389:ILE:HD13	1.66	0.59
10:S:602:CYS:SG	10:S:645:LYS:NZ	2.75	0.59
10:S:764:ASP:OD1	10:S:765:VAL:N	2.35	0.59
10:S:1099:VAL:HG11	10:S:1105:SER:HB3	1.85	0.59
10:S:1781:PHE:HD2	10:S:1811:LEU:HD23	1.67	0.59
4:D:469:ARG:HH12	4:D:535:TYR:HE1	1.49	0.59
4:D:888:TYR:O	4:D:891:LEU:HB3	2.01	0.59
5:E:282:ILE:HB	5:E:292:LEU:HB3	1.82	0.59
8:H:507:GLN:O	8:H:511:ILE:HD12	2.03	0.59
4:M:95:LEU:H	4:M:849:HIS:CD2	2.20	0.59
4:M:197:ASP:O	4:M:200:ASN:N	2.35	0.59
4:M:1239:THR:HA	4:M:1242:PHE:HD2	1.67	0.59
6:O:476:GLN:NE2	6:O:480:ASP:OD1	2.35	0.59
6:O:795:TRP:CE3	6:O:799:GLY:HA3	2.37	0.59
6:O:796:GLU:OE1	6:O:796:GLU:N	2.34	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:575:LYS:HD2	8:Q:576:GLN:N	2.17	0.59
9:R:212:ILE:HD12	9:R:236:LEU:HD11	1.84	0.59
9:R:361:THR:HG22	9:R:380:VAL:HA	1.85	0.59
10:S:434:ARG:HB3	10:S:437:GLU:HB3	1.84	0.59
10:S:1013:SER:HA	10:S:1079:ARG:HH21	1.67	0.59
10:S:1138:HIS:O	10:S:1142:ASP:N	2.35	0.59
10:S:1985:TYR:O	10:S:1987:LYS:NZ	2.31	0.59
1:A:558:LEU:HD11	1:A:575:LEU:HD21	1.84	0.59
6:F:476:GLN:NE2	6:F:480:ASP:OD1	2.35	0.59
6:F:694:LEU:O	6:F:698:HIS:ND1	2.27	0.59
6:F:705:PRO:HA	6:F:708:LEU:HD12	1.85	0.59
6:F:793:GLN:HG3	8:Q:491:ASP:H	1.68	0.59
7:G:218:ALA:HB1	7:G:269:TRP:NE1	2.17	0.59
8:H:214:ILE:HG22	8:H:510:VAL:HG11	1.85	0.59
1:J:103:ARG:HA	1:J:106:ARG:HG2	1.84	0.59
4:M:839:LEU:HD13	4:M:860:ARG:HG2	1.84	0.59
6:O:493:GLN:HB3	6:O:496:HIS:CE1	2.37	0.59
7:P:39:ILE:HB	7:P:51:ALA:O	2.01	0.59
10:S:379:PHE:CZ	10:S:389:ILE:HD13	2.38	0.59
10:S:612:ARG:CZ	10:S:652:LYS:HE2	2.32	0.59
10:S:784:TYR:HA	10:S:792:ARG:O	2.01	0.59
1:A:409:PHE:HA	1:A:415:TRP:HB3	1.84	0.59
1:A:432:TYR:HB3	1:A:436:HIS:HE1	1.67	0.59
2:B:181:THR:HG22	2:B:197:LEU:HD22	1.83	0.59
3:C:202:TYR:HB2	3:C:209:TYR:CE1	2.37	0.59
4:D:1224:PHE:HD2	4:D:1241:ILE:HG23	1.67	0.59
6:F:900:MET:HG3	6:F:905:ALA:HB2	1.85	0.59
8:H:613:LEU:HD22	8:H:623:VAL:HG13	1.84	0.59
8:H:788:MET:HG3	2:K:55:ALA:H	1.67	0.59
8:H:892:LEU:HD13	9:I:925:LEU:HD11	1.84	0.59
9:I:622:THR:HA	9:I:625:LEU:HD12	1.83	0.59
9:I:865:ASN:OD1	9:I:867:SER:OG	2.20	0.59
9:I:1014:GLN:OE1	9:I:1017:GLN:NE2	2.34	0.59
1:J:516:ASP:H	2:K:106:ASN:HA	1.67	0.59
1:J:603:GLU:OE1	1:J:603:GLU:N	2.30	0.59
2:K:359:VAL:HG23	2:K:369:VAL:HG22	1.83	0.59
3:L:16:HIS:CE1	3:L:61:TRP:HA	2.37	0.59
3:L:61:TRP:HB3	3:L:62:ARG:HD3	1.84	0.59
3:L:169:SER:HG	3:L:227:PHE:HD1	1.50	0.59
3:L:195:GLY:HA2	3:L:218:VAL:HB	1.84	0.59
4:M:330:VAL:HG13	4:M:335:ARG:HH22	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1066:GLU:HB2	4:M:1070:ARG:HH12	1.68	0.59
4:M:1403:HIS:O	4:M:1407:ILE:HG12	2.01	0.59
5:N:86:CYS:HA	5:N:91:PRO:HB3	1.84	0.59
8:Q:218:TYR:O	8:Q:222:ILE:HG12	2.01	0.59
8:Q:338:LEU:O	8:Q:342:PHE:CB	2.51	0.59
9:R:337:GLN:NE2	9:R:367:ASP:OD2	2.36	0.59
9:R:623:ARG:HB2	9:R:736:TYR:HB3	1.83	0.59
10:S:1968:ASN:OD1	10:S:1969:SER:N	2.36	0.59
1:A:148:GLU:HG3	1:A:152:ILE:HG13	1.85	0.59
8:H:436:TRP:CH2	8:H:504:HIS:CD2	2.90	0.59
8:H:916:SER:HB2	5:N:326:MET:HG3	1.83	0.59
3:L:195:GLY:N	3:L:218:VAL:O	2.25	0.59
4:M:519:SER:HB2	4:M:522:GLU:HG3	1.85	0.59
4:M:1188:LEU:O	4:M:1192:ARG:HG3	2.02	0.59
7:P:151:ILE:HG22	7:P:152:GLY:H	1.67	0.59
8:Q:548:PHE:CD1	8:Q:553:LEU:HD22	2.37	0.59
8:Q:732:ASP:HB3	8:Q:736:ARG:HH12	1.68	0.59
9:R:562:ASP:HB2	9:R:565:TRP:CD1	2.37	0.59
10:S:1227:VAL:HG13	10:S:1228:LYS:HD3	1.84	0.59
10:S:1484:ALA:O	10:S:1492:ARG:NE	2.34	0.59
11:T:7:GLN:NE2	11:T:496:GLU:OE1	2.34	0.59
1:A:68:LEU:HD12	1:A:72:PHE:HE2	1.67	0.59
1:A:490:ARG:HG2	1:A:490:ARG:HH11	1.67	0.59
2:B:240:CYS:HB3	2:B:242:TRP:CZ2	2.38	0.59
3:C:254:ARG:HB3	3:C:265:LYS:HB2	1.84	0.59
6:F:493:GLN:HB3	6:F:496:HIS:CE1	2.37	0.59
6:F:612:GLN:CG	12:U:186:ALA:HB3	2.33	0.59
7:G:184:SER:N	7:G:194:TRP:HZ3	2.00	0.59
8:H:162:VAL:O	8:H:166:ILE:HG12	2.03	0.59
1:J:25:PHE:HA	1:J:33:LEU:O	2.03	0.59
4:M:165:ILE:O	4:M:194:ASN:ND2	2.36	0.59
4:M:628:MET:SD	4:M:645:ILE:HG13	2.43	0.59
4:M:662:GLN:HG2	4:M:742:LEU:HD22	1.84	0.59
7:P:38:LYS:HB3	7:P:40:PHE:CE2	2.38	0.59
7:P:131:ILE:HG23	7:P:143:LYS:HE2	1.85	0.59
10:S:1137:LEU:HD11	10:S:1295:CYS:HB3	1.83	0.59
11:T:805:SER:HB3	11:T:834:SER:H	1.67	0.59
1:A:72:PHE:HE1	1:A:370:TRP:HB2	1.67	0.59
1:A:279:GLU:HG3	1:A:283:ARG:HH22	1.68	0.59
4:D:44:ARG:NH1	4:D:574:CYS:O	2.36	0.59
5:E:260:SER:HA	5:E:304:TRP:CD2	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:540:TRP:HE3	6:F:541:TYR:CE2	2.20	0.59
9:I:220:LEU:HD12	9:I:236:LEU:HD22	1.84	0.59
9:I:886:PHE:HE1	9:I:901:GLN:HG3	1.68	0.59
1:J:218:ALA:HB1	1:J:225:ARG:HG3	1.85	0.59
3:L:126:MET:SD	3:L:126:MET:N	2.75	0.59
3:L:280:GLN:HB2	3:L:298:ASP:HB2	1.85	0.59
4:M:227:ALA:HB3	4:M:243:MET:HB2	1.85	0.59
4:M:372:PHE:HB3	4:M:384:LEU:HB3	1.85	0.59
6:O:736:ASP:OD1	7:P:24:TYR:OH	2.15	0.59
8:Q:172:THR:O	8:Q:175:THR:OG1	2.15	0.59
8:Q:587:LEU:HB2	8:Q:592:ALA:HB2	1.83	0.59
8:Q:605:ASP:HB3	8:Q:608:GLN:OE1	2.03	0.59
8:Q:874:SER:CA	8:Q:879:LEU:O	2.50	0.59
9:R:567:GLU:CD	9:R:573:ALA:H	2.05	0.59
10:S:436:LEU:O	10:S:440:LEU:HG	2.02	0.59
10:S:1724:SER:HB3	10:S:1728:ARG:HH12	1.67	0.59
2:B:162:ARG:NH1	2:B:163:THR:O	2.36	0.59
4:D:740:LEU:HB2	4:D:757:GLN:HG2	1.83	0.59
4:D:810:ARG:NH1	4:D:811:ARG:O	2.35	0.59
4:D:940:GLU:O	4:D:943:LEU:N	2.35	0.59
6:F:387:TRP:CB	6:F:644:LEU:HD11	2.31	0.59
7:P:67:HIS:CD2	7:P:69:MET:HG2	2.38	0.59
10:S:1035:ASP:HA	10:S:1038:ARG:HG2	1.84	0.59
1:A:594:GLN:HA	1:A:597:GLU:CD	2.23	0.59
2:B:178:LEU:O	2:B:227:GLN:NE2	2.36	0.59
3:C:306:LYS:O	3:C:313:TRP:HA	2.02	0.59
4:D:1184:LYS:NZ	4:D:1233:THR:O	2.21	0.59
5:E:204:LEU:HD21	5:E:237:MET:HE1	1.85	0.59
1:J:79:PHE:CD1	1:J:374:HIS:CE1	2.90	0.59
3:L:62:ARG:HB2	3:L:77:CYS:SG	2.43	0.59
3:L:184:VAL:O	3:L:197:VAL:HA	2.03	0.59
4:M:845:SER:HB3	4:M:850:ARG:HA	1.84	0.59
4:M:1070:ARG:HD3	4:M:1106:ARG:HH22	1.68	0.59
7:P:83:VAL:N	7:P:98:GLU:OE2	2.31	0.59
8:Q:733:ASN:OD1	8:Q:736:ARG:NH2	2.33	0.59
10:S:1088:LEU:HA	10:S:1091:GLN:HE21	1.68	0.59
10:S:1629:ILE:O	10:S:1633:SER:HB3	2.02	0.59
11:T:885:ARG:HH22	11:T:917:MET:HB2	1.68	0.59
3:C:83:ALA:O	3:C:108:THR:HA	2.03	0.58
4:D:244:PRO:HB2	4:D:248:MET:HG3	1.83	0.58
4:D:530:ASN:HA	4:D:533:LYS:HD2	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1141:ILE:HD11	4:D:1177:LEU:HD12	1.84	0.58
6:F:540:TRP:HA	6:F:545:PRO:HB3	1.85	0.58
7:G:54:ARG:HG3	7:G:55:GLY:N	2.18	0.58
2:K:4:LYS:HD3	2:K:372:ARG:HD2	1.85	0.58
4:M:348:TYR:HD1	4:M:355:LEU:HB2	1.67	0.58
4:M:547:ARG:HD2	9:R:134:LYS:HA	1.85	0.58
6:O:464:ARG:HD3	8:Q:316:PRO:HG2	1.85	0.58
8:Q:651:LEU:HD13	12:U:704:HIS:HA	1.85	0.58
9:R:167:LEU:HB2	9:R:179:TRP:HB2	1.85	0.58
10:S:1076:PRO:HA	10:S:1079:ARG:HG2	1.85	0.58
12:U:546:ARG:HA	12:U:549:LEU:HD12	1.85	0.58
1:A:304:HIS:HA	1:A:307:VAL:HG22	1.83	0.58
1:A:631:GLU:HG3	1:A:634:ARG:HH12	1.68	0.58
2:B:16:ARG:NE	2:B:79:MET:O	2.34	0.58
2:B:215:VAL:HG11	2:B:236:ASP:HB3	1.84	0.58
3:C:21:ASP:HB2	3:C:26:ARG:HB2	1.85	0.58
4:D:180:ASP:HB2	4:D:809:LYS:HE3	1.85	0.58
5:E:128:ASN:ND2	5:E:168:GLY:O	2.29	0.58
6:F:295:LYS:HE3	6:F:302:PHE:HD2	1.67	0.58
6:F:739:LYS:HA	6:F:742:GLU:OE1	2.03	0.58
6:F:913:THR:O	6:F:917:LEU:HG	2.03	0.58
7:G:125:SER:HA	7:G:153:CYS:H	1.68	0.58
1:J:630:VAL:O	1:J:634:ARG:HG2	2.04	0.58
4:M:416:ASP:OD2	9:R:163:GLN:HA	2.03	0.58
5:N:145:ASP:HA	5:N:167:PRO:HB3	1.85	0.58
5:N:208:GLN:NE2	5:N:209:VAL:O	2.36	0.58
5:N:215:ASP:OD2	5:N:259:TRP:N	2.36	0.58
6:O:540:TRP:HE3	6:O:541:TYR:CE2	2.21	0.58
8:Q:298:GLN:HA	8:Q:301:MET:HB3	1.86	0.58
9:R:689:LEU:HA	9:R:692:LYS:HE3	1.84	0.58
9:R:992:LEU:HD11	9:R:1015:LEU:HD22	1.85	0.58
11:T:452:SER:HB2	11:T:476:ASP:H	1.67	0.58
12:U:641:GLU:HB3	12:U:645:LYS:HZ1	1.68	0.58
1:A:69:ARG:HG3	1:A:70:LYS:N	2.17	0.58
1:A:82:LEU:O	1:A:85:SER:OG	2.18	0.58
2:B:86:LYS:HD2	2:B:87:GLU:HG3	1.84	0.58
5:E:25:ASN:HD21	5:E:34:SER:HA	1.68	0.58
7:G:88:GLU:HA	7:G:93:TRP:HA	1.85	0.58
8:H:254:LEU:HA	8:H:257:GLN:NE2	2.19	0.58
1:J:10:GLU:HB2	1:J:57:VAL:HG13	1.85	0.58
1:J:469:LYS:HG3	1:J:496:PHE:HE2	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:625:ILE:HG22	1:J:629:LYS:HZ3	1.67	0.58
2:K:190:GLY:HA2	2:K:217:LEU:HG	1.84	0.58
4:M:373:GLN:HB2	4:M:385:GLU:HG3	1.85	0.58
6:O:531:TRP:O	6:O:534:THR:OG1	2.18	0.58
8:Q:201:LEU:HD12	8:Q:204:LEU:HD23	1.85	0.58
8:Q:331:ARG:O	8:Q:334:ASP:HB2	2.03	0.58
10:S:1828:TYR:HA	10:S:1831:ILE:HG22	1.84	0.58
1:A:27:TRP:CZ3	3:C:288:ILE:HG12	2.37	0.58
4:D:1062:VAL:HA	4:D:1065:ILE:HG22	1.85	0.58
6:F:248:GLY:HA2	7:G:265:TRP:CZ2	2.39	0.58
6:F:259:TRP:CD2	7:G:272:THR:HG21	2.38	0.58
8:H:672:ASP:O	8:H:676:ARG:NH1	2.37	0.58
1:J:600:ARG:NH2	4:M:1125:LEU:HD22	2.17	0.58
3:L:227:PHE:HD2	3:L:236:HIS:CE1	2.22	0.58
4:M:1289:ARG:HE	4:M:1292:ILE:HD12	1.68	0.58
6:O:540:TRP:HA	6:O:545:PRO:HB3	1.85	0.58
6:O:766:ASP:O	6:O:770:ASN:ND2	2.36	0.58
7:P:97:TYR:HB2	7:P:140:TRP:CZ2	2.38	0.58
8:Q:869:ALA:HB1	8:Q:895:LEU:HD11	1.85	0.58
8:Q:871:ILE:HG23	8:Q:871:ILE:O	2.03	0.58
10:S:1104:ILE:O	10:S:1108:ASN:ND2	2.37	0.58
10:S:1851:LYS:HD3	10:S:1862:ALA:HA	1.86	0.58
1:A:73:ASN:O	1:A:76:HIS:HB3	2.03	0.58
1:A:148:GLU:HA	1:A:152:ILE:HG12	1.85	0.58
2:B:14:ILE:HD13	2:B:362:THR:H	1.67	0.58
4:D:665:LEU:HD13	4:D:739:LEU:HD13	1.85	0.58
4:D:1084:TYR:O	4:D:1088:ILE:HG13	2.03	0.58
5:E:261:LYS:HB2	5:E:305:HIS:O	2.04	0.58
6:F:600:VAL:CG2	6:F:623:SER:CB	2.78	0.58
8:H:398:TRP:CE3	8:H:399:LYS:HD3	2.38	0.58
8:H:903:LEU:HD23	9:I:895:ARG:NH1	2.19	0.58
1:J:309:ARG:NH1	1:J:329:SER:OG	2.33	0.58
1:J:595:THR:HA	1:J:598:LEU:HD12	1.86	0.58
7:P:110:CYS:SG	7:P:158:TRP:NE1	2.72	0.58
8:Q:868:LEU:HA	8:Q:871:ILE:CG2	2.33	0.58
10:S:1250:ARG:HA	10:S:1253:LEU:HD12	1.85	0.58
12:U:282:ALA:HB2	12:U:300:ILE:HD11	1.84	0.58
3:C:169:SER:HB2	3:C:227:PHE:CD2	2.39	0.58
3:C:242:THR:N	3:C:246:ARG:HH22	2.02	0.58
6:F:328:GLU:CD	6:F:355:TYR:HH	2.02	0.58
6:F:787:GLU:OE1	6:F:787:GLU:N	2.31	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:631:GLU:HA	1:J:634:ARG:HE	1.68	0.58
2:K:250:PRO:HG2	2:K:253:LEU:HD11	1.85	0.58
4:M:717:ALA:O	4:M:721:ILE:HG12	2.04	0.58
4:M:1199:ASN:OD1	4:M:1201:SER:OG	2.21	0.58
4:M:1311:ASN:OD1	4:M:1312:LYS:N	2.36	0.58
6:O:462:ASP:HB3	6:O:465:LEU:HD12	1.86	0.58
8:Q:254:LEU:HA	8:Q:257:GLN:NE2	2.19	0.58
9:R:207:LYS:O	9:R:222:ARG:NH2	2.37	0.58
9:R:1058:LEU:HD22	9:R:1085:PHE:HE1	1.68	0.58
10:S:53:LEU:HD11	10:S:146:LEU:HD22	1.86	0.58
10:S:1629:ILE:O	10:S:1633:SER:CB	2.51	0.58
11:T:858:LEU:HD22	11:T:884:ASN:HB3	1.86	0.58
1:A:111:ALA:HA	1:A:114:GLU:CD	2.24	0.58
1:A:487:TRP:CE2	2:B:26:SER:HB2	2.39	0.58
1:A:629:LYS:O	1:A:633:LEU:HG	2.03	0.58
3:C:62:ARG:NH2	3:C:117:THR:O	2.31	0.58
3:C:223:HIS:HE1	3:C:280:GLN:HB2	1.68	0.58
5:E:67:LYS:NZ	5:E:68:THR:O	2.30	0.58
6:F:573:PRO:HB2	6:F:599:ASP:CB	2.28	0.58
7:G:195:ARG:HD2	7:G:204:ASP:OD1	2.04	0.58
8:H:147:TYR:HE1	8:H:539:ARG:HG3	1.69	0.58
9:I:794:ASN:OD1	9:I:795:TYR:N	2.37	0.58
1:J:179:VAL:HG21	1:J:201:TYR:CZ	2.38	0.58
4:M:1352:LEU:HA	4:M:1355:GLU:OE2	2.03	0.58
4:M:1357:VAL:HA	4:M:1360:LEU:HD12	1.85	0.58
8:Q:170:GLU:OE1	8:Q:212:ARG:NH1	2.37	0.58
8:Q:842:ARG:HA	8:Q:882:VAL:HB	1.84	0.58
10:S:618:HIS:HE1	10:S:620:GLN:HB2	1.69	0.58
10:S:970:GLN:O	10:S:973:GLN:HG2	2.03	0.58
10:S:1273:CYS:HB3	10:S:1277:LYS:NZ	2.18	0.58
11:T:594:GLN:O	11:T:598:ARG:HG2	2.03	0.58
4:D:151:ILE:HD11	4:D:169:PRO:HD3	1.84	0.58
7:G:246:ASP:OD2	7:G:249:THR:N	2.33	0.58
8:H:338:LEU:O	8:H:342:PHE:CB	2.51	0.58
8:H:779:HIS:HA	8:H:782:LYS:HE3	1.86	0.58
9:I:342:LEU:HG	9:I:365:VAL:HB	1.86	0.58
4:M:1314:LEU:O	10:S:719:ASN:ND2	2.37	0.58
7:P:289:LYS:HD3	7:P:299:ILE:HD13	1.86	0.58
9:R:1013:PHE:HA	9:R:1016:ILE:HD12	1.84	0.58
10:S:618:HIS:CE1	10:S:620:GLN:HB2	2.38	0.58
10:S:627:ILE:HG12	10:S:643:LEU:HD22	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1007:GLU:HB2	10:S:1015:THR:HG21	1.86	0.58
6:F:848:LYS:HZ3	6:F:851:LEU:HB3	1.68	0.58
4:M:474:ALA:HB2	4:M:541:TYR:HD2	1.68	0.58
6:O:478:VAL:O	6:O:482:ILE:HG12	2.03	0.58
9:R:899:LEU:HD21	9:R:919:LEU:HB3	1.85	0.58
10:S:804:HIS:NE2	10:S:872:ILE:O	2.37	0.58
10:S:1309:ILE:O	10:S:1313:LEU:HG	2.03	0.58
2:B:283:LEU:O	2:B:339:ASN:HA	2.04	0.58
4:D:285:PRO:HB3	4:D:301:ALA:HB1	1.85	0.58
4:D:1043:ARG:HB3	4:D:1045:GLN:HE22	1.68	0.58
4:D:1180:ARG:NH2	4:D:1183:GLU:HG3	2.19	0.58
8:H:132:MET:HG2	8:H:138:PRO:HG3	1.86	0.58
8:H:779:HIS:O	8:H:783:GLU:HG2	2.03	0.58
8:H:872:VAL:HA	8:H:879:LEU:HD12	1.84	0.58
8:H:902:LEU:HA	8:H:905:LEU:HD12	1.86	0.58
1:J:444:THR:HG22	1:J:446:LYS:HG3	1.84	0.58
8:Q:204:LEU:O	8:Q:207:GLU:HG3	2.04	0.58
9:R:615:THR:N	9:R:618:MET:O	2.35	0.58
10:S:628:LEU:HD22	10:S:667:THR:HG21	1.86	0.58
10:S:767:TYR:HA	10:S:849:LEU:HD13	1.85	0.58
10:S:1321:LEU:HD23	10:S:1408:LYS:HZ1	1.69	0.58
10:S:1433:ARG:NH2	10:S:1448:TRP:O	2.35	0.58
12:U:464:PHE:CE1	12:U:476:ALA:HB1	2.39	0.58
12:U:816:GLU:OE2	12:U:820:ASN:ND2	2.37	0.58
5:E:190:ILE:HB	5:E:204:LEU:HB2	1.86	0.57
8:H:625:SER:O	8:H:629:THR:HG23	2.04	0.57
8:H:763:GLN:NE2	8:H:790:PHE:HA	2.19	0.57
1:J:448:ALA:O	1:J:452:LEU:HG	2.04	0.57
1:J:599:MET:HA	1:J:602:LEU:HD12	1.86	0.57
2:K:122:HIS:ND1	2:K:147:ASP:O	2.37	0.57
2:K:286:TRP:CD1	2:K:337:ILE:HA	2.39	0.57
3:L:255:LYS:HE3	3:L:265:LYS:H	1.69	0.57
4:M:137:ILE:HA	4:M:157:THR:HG22	1.86	0.57
4:M:1321:PRO:HG2	4:M:1324:LEU:HB3	1.85	0.57
8:Q:815:VAL:HG12	8:Q:815:VAL:O	2.02	0.57
9:R:562:ASP:HB3	9:R:563:PRO:HD2	1.86	0.57
10:S:440:LEU:HD12	10:S:509:PRO:HB2	1.86	0.57
10:S:570:LEU:HB3	10:S:571:PRO:HD2	1.86	0.57
10:S:1390:ILE:HD12	10:S:1395:LEU:HD11	1.85	0.57
10:S:1396:HIS:CE1	10:S:1400:ARG:HH11	2.22	0.57
11:T:405:TRP:HD1	11:T:425:TYR:HB2	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:372:LEU:HD11	12:U:392:TYR:HE1	1.69	0.57
12:U:648:SER:OG	12:U:741:GLU:OE1	2.15	0.57
2:B:268:PRO:HD3	2:B:353:VAL:HG13	1.86	0.57
3:C:149:ASN:HB3	3:C:152:GLN:NE2	2.19	0.57
3:C:197:VAL:HB	3:C:215:LEU:HD13	1.85	0.57
4:D:628:MET:HG2	4:D:641:VAL:HG11	1.85	0.57
8:H:694:LYS:HA	8:H:696:HIS:CE1	2.38	0.57
1:J:296:ARG:HA	1:J:299:MET:SD	2.44	0.57
3:L:161:CYS:O	3:L:162:LYS:HG2	2.04	0.57
4:M:672:ILE:HD13	4:M:752:GLN:HE22	1.68	0.57
8:Q:213:LEU:HD13	8:Q:507:GLN:HB3	1.86	0.57
8:Q:760:SER:O	8:Q:793:TRP:NE1	2.37	0.57
9:R:1028:ASN:H	9:R:1031:ASP:HB2	1.69	0.57
10:S:783:GLN:HE22	10:S:795:PHE:HA	1.68	0.57
11:T:509:ASN:HB3	11:T:573:ARG:HD2	1.87	0.57
12:U:585:LEU:HD13	12:U:610:ILE:HG12	1.86	0.57
3:C:271:VAL:HB	3:C:313:TRP:CZ3	2.39	0.57
4:D:946:LEU:HD12	4:D:964:ARG:HG2	1.85	0.57
4:D:1328:TYR:OH	4:D:1335:GLU:OE1	2.19	0.57
6:F:903:ASP:OD1	6:F:904:TYR:N	2.32	0.57
9:I:1126:PHE:CE2	9:R:577:SER:HB3	2.38	0.57
2:K:112:VAL:HG11	2:K:115:ARG:HE	1.68	0.57
2:K:118:GLN:HA	2:K:128:ARG:HH22	1.67	0.57
2:K:242:TRP:HA	2:K:251:MET:SD	2.44	0.57
4:M:913:LEU:HG	4:M:917:TYR:CE2	2.39	0.57
8:Q:355:ARG:HB2	12:U:29:VAL:HG12	1.85	0.57
8:Q:398:TRP:CE3	8:Q:399:LYS:HD3	2.38	0.57
12:U:11:GLN:NE2	12:U:14:GLU:OE1	2.37	0.57
12:U:480:LEU:O	12:U:486:THR:OG1	2.21	0.57
1:A:126:THR:HG23	1:A:129:LYS:HE3	1.85	0.57
1:A:182:VAL:HA	1:A:191:HIS:CD2	2.39	0.57
2:B:19:TRP:CE3	2:B:30:PRO:HD2	2.39	0.57
4:D:369:PHE:O	4:D:390:ILE:N	2.25	0.57
4:D:964:ARG:HA	4:D:967:ARG:HE	1.68	0.57
4:D:972:VAL:HG12	5:E:275:LYS:CE	2.35	0.57
8:H:331:ARG:O	8:H:334:ASP:HB2	2.03	0.57
1:J:299:MET:HG3	1:J:300:THR:H	1.68	0.57
1:J:310:LEU:HD13	1:J:314:HIS:HB2	1.85	0.57
3:L:181:MET:SD	3:L:199:ILE:HG23	2.44	0.57
4:M:473:ALA:HB1	4:M:477:LYS:NZ	2.20	0.57
4:M:1074:LEU:HD22	4:M:1103:TYR:HE1	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:336:LYS:NZ	6:O:719:CYS:O	2.34	0.57
9:R:854:ASP:HA	9:R:857:VAL:HG22	1.86	0.57
9:R:1022:GLU:HB2	9:R:1060:LYS:HE2	1.86	0.57
10:S:1081:LEU:HD13	10:S:1088:LEU:HD21	1.86	0.57
10:S:1302:THR:HA	10:S:1305:ARG:HD3	1.86	0.57
12:U:205:LEU:HA	12:U:208:LEU:HD12	1.87	0.57
12:U:617:ALA:HB1	12:U:622:LEU:HB3	1.85	0.57
12:U:811:ARG:HH21	12:U:814:GLN:HG2	1.68	0.57
1:A:21:ARG:HE	1:A:43:GLY:HA3	1.69	0.57
1:A:309:ARG:NH1	1:A:325:TYR:O	2.36	0.57
3:C:62:ARG:CZ	3:C:118:ASP:HA	2.34	0.57
3:C:246:ARG:HB3	3:C:248:PHE:HE2	1.67	0.57
4:D:460:TYR:CG	4:D:531:TRP:HB3	2.39	0.57
4:D:1043:ARG:HB3	4:D:1045:GLN:NE2	2.18	0.57
6:F:531:TRP:O	6:F:534:THR:OG1	2.18	0.57
8:H:634:THR:HG22	8:H:662:LYS:HG2	1.85	0.57
8:H:810:ASN:O	8:H:814:PHE:HB2	2.05	0.57
1:J:401:LEU:HB3	1:J:422:PHE:HE1	1.69	0.57
6:O:328:GLU:O	6:O:332:SER:OG	2.16	0.57
7:P:257:LEU:HD21	7:P:288:TRP:CD2	2.39	0.57
8:Q:354:GLN:HG2	12:U:29:VAL:HG11	1.87	0.57
9:R:363:VAL:HG13	9:R:378:VAL:HG22	1.86	0.57
10:S:824:VAL:HG13	10:S:902:HIS:HE1	1.68	0.57
11:T:345:ASN:HB3	11:T:385:VAL:HG13	1.86	0.57
12:U:33:LEU:HD12	12:U:36:ILE:HB	1.85	0.57
1:A:68:LEU:HD12	1:A:72:PHE:CE2	2.38	0.57
1:A:322:LEU:HA	1:A:325:TYR:CD2	2.39	0.57
1:A:355:ILE:HD12	1:A:379:LEU:HD13	1.87	0.57
2:B:114:GLN:C	2:B:115:ARG:HH11	2.06	0.57
3:C:149:ASN:HB3	3:C:152:GLN:HE22	1.68	0.57
4:D:44:ARG:O	4:D:424:HIS:NE2	2.36	0.57
4:D:409:ILE:HG12	4:D:427:PHE:CD2	2.39	0.57
4:D:1192:ARG:NE	4:D:1206:ALA:O	2.38	0.57
6:F:811:MET:SD	6:F:828:LEU:HD21	2.44	0.57
8:H:173:CYS:HA	8:H:176:GLN:HE21	1.70	0.57
9:I:831:LEU:HD13	5:N:1:MET:HA	1.87	0.57
1:J:518:ASP:OD1	1:J:519:LEU:N	2.37	0.57
1:J:544:ARG:O	1:J:547:SER:N	2.37	0.57
2:K:262:TRP:HE1	2:K:279:GLU:HA	1.69	0.57
4:M:306:HIS:HE1	4:M:335:ARG:HA	1.68	0.57
7:P:179:ILE:HG22	7:P:195:ARG:NH1	2.15	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:374:LEU:O	8:Q:390:GLU:HG2	2.05	0.57
9:R:280:THR:HG1	9:R:283:SER:H	1.53	0.57
10:S:515:ARG:NE	10:S:596:ALA:O	2.35	0.57
10:S:1435:ASP:HA	10:S:1450:ARG:HH22	1.70	0.57
1:A:366:SER:OG	1:A:367:SER:N	2.36	0.57
2:B:12:HIS:ND1	2:B:40:ASN:HB3	2.20	0.57
2:B:18:ARG:HG3	2:B:83:PHE:CE2	2.40	0.57
2:B:97:THR:HG23	2:B:117:GLU:HA	1.87	0.57
4:D:54:ARG:HE	4:D:712:SER:HA	1.68	0.57
4:D:210:ARG:HA	4:D:233:SER:HA	1.87	0.57
4:D:369:PHE:N	4:D:390:ILE:O	2.34	0.57
4:D:425:ILE:HD13	4:D:435:TRP:HA	1.86	0.57
8:H:753:GLU:HG3	8:H:756:LYS:NZ	2.19	0.57
1:J:234:LEU:HD23	1:J:237:LYS:HE3	1.87	0.57
2:K:10:VAL:HG23	2:K:12:HIS:H	1.69	0.57
3:L:41:LYS:HB2	3:L:47:TRP:CH2	2.39	0.57
3:L:303:ARG:HB3	3:L:315:CYS:SG	2.44	0.57
6:O:343:PHE:CE2	6:O:676:PHE:HA	2.38	0.57
7:P:271:ILE:H	7:P:271:ILE:HD12	1.69	0.57
8:Q:575:LYS:HD2	8:Q:576:GLN:H	1.69	0.57
9:R:216:GLU:OE2	9:R:217:LYS:NZ	2.37	0.57
11:T:122:LEU:HD22	11:T:187:LEU:HD11	1.86	0.57
12:U:548:ALA:HA	12:U:551:TYR:HD2	1.69	0.57
1:A:260:ARG:NH2	1:A:312:PHE:O	2.37	0.57
1:A:449:LEU:HA	1:A:452:LEU:HD13	1.87	0.57
4:D:646:LEU:HD11	4:D:738:LEU:HD13	1.87	0.57
6:F:387:TRP:CB	6:F:644:LEU:HD13	2.34	0.57
6:F:572:TYR:CZ	6:F:598:ARG:HD3	2.40	0.57
6:F:619:LEU:HD12	6:F:620:ASP:HB2	1.87	0.57
8:H:299:ARG:HA	8:H:305:GLY:HA2	1.86	0.57
9:I:417:ALA:HB3	9:I:430:GLU:H	1.70	0.57
9:I:488:ARG:NH2	9:I:526:SER:O	2.38	0.57
3:L:159:ILE:HD11	3:L:209:TYR:HD2	1.68	0.57
4:M:450:ILE:O	4:M:454:GLN:N	2.38	0.57
4:M:687:ASN:HD22	4:M:873:ASN:HA	1.68	0.57
5:N:153:ASP:HB3	5:N:159:ILE:HD11	1.87	0.57
7:P:27:ARG:HD3	7:P:39:ILE:HG23	1.87	0.57
8:Q:818:GLY:HA2	8:Q:879:LEU:HD23	1.87	0.57
9:R:362:LEU:HD13	9:R:420:THR:HA	1.87	0.57
10:S:499:SER:HB2	10:S:534:ASN:HD21	1.70	0.57
10:S:1264:VAL:HG22	10:S:1267:ARG:HH21	1.69	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1995:ILE:HG13	10:S:1996:GLN:N	2.19	0.57
12:U:418:LYS:O	12:U:422:VAL:HG23	2.04	0.57
1:A:496:PHE:HA	1:A:499:LEU:HD12	1.86	0.57
3:C:16:HIS:CD2	3:C:61:TRP:HA	2.38	0.57
3:C:156:GLN:O	4:D:1322:ASN:ND2	2.38	0.57
4:D:682:MET:HE3	4:D:767:LEU:HD21	1.86	0.57
4:D:718:ILE:HA	4:D:721:ILE:HG12	1.87	0.57
4:D:1334:ALA:O	4:D:1337:LEU:HB3	2.05	0.57
6:F:372:VAL:HG12	6:F:626:PRO:CD	2.34	0.57
6:F:387:TRP:CZ3	6:F:637:MET:HE2	2.38	0.57
7:G:220:ALA:HB3	7:G:229:THR:HB	1.86	0.57
8:H:355:ARG:NH2	8:H:359:ARG:NE	2.45	0.57
8:H:903:LEU:C	9:I:895:ARG:HH12	2.07	0.57
1:J:107:SER:HB2	2:K:325:TRP:HZ2	1.70	0.57
1:J:309:ARG:NH1	1:J:325:TYR:O	2.35	0.57
4:M:309:ARG:HG2	4:M:321:VAL:HG22	1.87	0.57
4:M:444:PRO:HG3	4:M:469:ARG:O	2.05	0.57
4:M:482:LEU:HD23	4:M:505:VAL:HA	1.87	0.57
4:M:891:LEU:HD22	4:M:916:CYS:SG	2.45	0.57
4:M:1107:LEU:C	4:M:1120:GLN:HE21	2.08	0.57
6:O:652:HIS:HB2	6:O:653:ARG:HD2	1.86	0.57
6:O:683:ASP:HB3	6:O:685:HIS:CE1	2.40	0.57
6:O:767:ALA:HB3	6:O:776:LEU:HD22	1.85	0.57
7:P:243:THR:HG1	7:P:253:THR:HG1	1.52	0.57
8:Q:276:PHE:O	8:Q:280:ILE:HG13	2.05	0.57
8:Q:299:ARG:HA	8:Q:305:GLY:HA2	1.86	0.57
9:R:277:TYR:OH	9:R:370:TYR:O	2.16	0.57
9:R:515:ARG:HH21	9:R:520:ASP:HB2	1.70	0.57
9:R:882:SER:HA	9:R:885:LEU:HD12	1.86	0.57
9:R:970:ASP:OD1	9:R:971:VAL:N	2.37	0.57
10:S:461:TRP:CD2	10:S:526:TYR:HB3	2.40	0.57
10:S:507:TYR:CZ	10:S:549:PRO:HG2	2.40	0.57
10:S:557:HIS:HA	10:S:560:MET:HG2	1.87	0.57
10:S:1680:SER:HA	10:S:1762:TYR:CD1	2.39	0.57
12:U:653:GLN:O	12:U:661:ARG:NH1	2.38	0.57
1:A:35:TYR:HA	1:A:55:TYR:HD2	1.68	0.57
1:A:185:SER:HB3	1:A:191:HIS:CD2	2.40	0.57
4:D:1000:ARG:HA	4:D:1003:ILE:HD12	1.86	0.57
6:F:662:ALA:HA	6:F:665:LEU:HD12	1.87	0.57
9:I:223:LEU:HD21	9:I:231:MET:HE2	1.87	0.57
2:K:20:ARG:O	2:K:22:VAL:HG23	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:526:ILE:HA	9:R:62:TYR:CD2	2.40	0.57
5:N:123:HIS:CD2	5:N:150:ARG:HD2	2.40	0.57
6:O:685:HIS:NE2	7:P:167:LEU:O	2.36	0.57
7:P:287:LEU:HD12	7:P:300:SER:HB3	1.85	0.57
8:Q:820:MET:HG3	8:Q:840:LEU:HD13	1.87	0.57
9:R:78:PHE:O	9:R:124:HIS:HA	2.05	0.57
9:R:947:TYR:HB2	9:R:950:LYS:HB2	1.87	0.57
10:S:734:GLN:HG3	10:S:737:ARG:NH2	2.19	0.57
12:U:647:LEU:HD21	12:U:668:ALA:HB2	1.87	0.57
1:A:11:THR:HG21	1:A:57:VAL:HG13	1.85	0.56
2:B:41:GLU:N	2:B:44:LYS:HZ1	2.02	0.56
4:D:177:ILE:O	4:D:700:ASN:ND2	2.38	0.56
6:F:251:PHE:CG	7:G:304:LYS:HG2	2.40	0.56
6:F:331:ASN:OD1	6:F:347:PRO:CA	2.53	0.56
6:F:462:ASP:HB3	6:F:465:LEU:HD12	1.86	0.56
6:F:531:TRP:CZ2	6:F:599:ASP:OD2	2.58	0.56
8:H:916:SER:HB3	9:I:918:HIS:HD2	1.70	0.56
9:I:934:HIS:CE1	9:I:962:ALA:HB2	2.40	0.56
1:J:99:VAL:HB	1:J:103:ARG:NH1	2.15	0.56
4:M:509:ILE:HD11	4:M:531:TRP:CZ3	2.39	0.56
5:N:110:ASP:OD1	5:N:114:LYS:N	2.29	0.56
6:O:449:ARG:HG3	6:O:449:ARG:HH11	1.70	0.56
6:O:485:GLN:HG3	6:O:489:TRP:HE1	1.68	0.56
7:P:27:ARG:HD2	7:P:28:LEU:N	2.20	0.56
7:P:56:HIS:HA	7:P:82:LYS:NZ	2.20	0.56
7:P:215:ARG:CZ	7:P:235:GLN:HB3	2.35	0.56
7:P:287:LEU:HB2	7:P:300:SER:HB3	1.86	0.56
8:Q:293:LEU:HD23	12:U:46:LYS:HZ1	1.70	0.56
9:R:74:ASN:ND2	9:R:467:GLU:OE2	2.38	0.56
11:T:284:TYR:HB3	11:T:301:LEU:HD11	1.86	0.56
1:A:53:PHE:HB2	3:C:5:ARG:CZ	2.36	0.56
1:A:370:TRP:HD1	1:A:404:TYR:CE1	2.23	0.56
1:A:626:ASP:O	1:A:630:VAL:HG23	2.06	0.56
4:D:1310:ILE:HG12	4:D:1320:LEU:HD11	1.87	0.56
6:F:614:ASP:C	6:F:616:CYS:H	2.08	0.56
8:H:276:PHE:O	8:H:280:ILE:HG13	2.05	0.56
9:I:621:ALA:HB3	9:I:624:LEU:HD23	1.87	0.56
1:J:304:HIS:HA	1:J:307:VAL:HG22	1.87	0.56
1:J:558:LEU:HD13	1:J:561:LEU:HD21	1.87	0.56
3:L:251:LYS:HB3	3:L:267:GLU:HB2	1.87	0.56
4:M:1215:VAL:HG13	4:M:1241:ILE:HD11	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:47:ALA:HA	5:N:66:LEU:H	1.70	0.56
6:O:311:LEU:HG	6:O:312:GLU:HG2	1.87	0.56
6:O:324:PRO:HB3	6:O:355:TYR:HE1	1.69	0.56
6:O:486:LEU:HA	6:O:489:TRP:CD1	2.40	0.56
8:Q:565:LYS:O	8:Q:569:GLN:HG3	2.05	0.56
8:Q:672:ASP:HB3	8:Q:675:GLN:HG3	1.86	0.56
10:S:448:ARG:HD3	10:S:516:GLY:HA2	1.86	0.56
4:D:166:LEU:HD22	4:D:190:ILE:HG22	1.85	0.56
6:F:268:LEU:HD12	6:F:271:ARG:NH1	2.20	0.56
6:F:379:THR:HG1	6:F:633:LEU:HD13	1.70	0.56
6:F:576:PRO:HD3	6:F:624:ALA:CA	2.12	0.56
7:G:195:ARG:NH2	7:G:197:GLU:OE2	2.38	0.56
8:H:503:TYR:HA	8:H:506:ILE:HG12	1.87	0.56
9:I:236:LEU:HD12	9:I:237:PRO:HD2	1.87	0.56
1:J:370:TRP:HE3	1:J:404:TYR:HE1	1.52	0.56
1:J:587:GLN:HA	1:J:643:ARG:HH22	1.70	0.56
3:L:62:ARG:NH2	3:L:77:CYS:SG	2.78	0.56
3:L:226:ALA:O	3:L:238:LEU:HD12	2.05	0.56
4:M:1365:HIS:HB3	4:M:1374:LEU:HD11	1.87	0.56
6:O:263:HIS:C	6:O:304:VAL:HG13	2.26	0.56
6:O:474:GLY:C	6:O:479:ARG:HH12	2.09	0.56
6:O:603:HIS:HA	6:O:606:LYS:HE2	1.87	0.56
7:P:76:SER:OG	7:P:84:ILE:HB	2.06	0.56
7:P:220:ALA:HB1	7:P:273:ALA:HB1	1.88	0.56
8:Q:174:ASN:HD21	8:Q:212:ARG:HH22	1.53	0.56
8:Q:600:LEU:HA	8:Q:603:ILE:HG12	1.87	0.56
8:Q:852:LEU:CG	8:Q:868:LEU:HD11	2.28	0.56
8:Q:868:LEU:HA	8:Q:871:ILE:HG22	1.86	0.56
9:R:589:ASP:HA	9:R:592:LYS:HD2	1.86	0.56
10:S:849:LEU:O	10:S:853:THR:HG23	2.04	0.56
10:S:1327:GLN:HA	10:S:1330:MET:CE	2.36	0.56
12:U:207:ASP:O	12:U:210:THR:N	2.38	0.56
12:U:809:ASN:HA	12:U:812:LEU:HD12	1.87	0.56
1:A:40:GLN:HG3	3:C:282:TRP:NE1	2.21	0.56
3:C:60:VAL:HA	3:C:78:SER:HB2	1.87	0.56
4:D:794:LEU:HB2	4:D:884:ARG:NH1	2.20	0.56
4:D:972:VAL:O	5:E:275:LYS:HE3	2.04	0.56
4:D:1140:TRP:HA	4:D:1177:LEU:O	2.06	0.56
4:D:1192:ARG:NH2	4:D:1207:GLY:O	2.39	0.56
4:D:1313:LEU:HB3	4:D:1318:VAL:HB	1.87	0.56
4:D:1413:ARG:O	4:D:1417:GLU:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:612:GLN:CB	12:U:183:MET:O	2.27	0.56
7:G:244:SER:HB2	7:G:252:TRP:CG	2.40	0.56
8:H:254:LEU:HD23	8:H:257:GLN:HE22	1.70	0.56
5:N:18:TYR:HD1	5:N:316:TYR:HA	1.70	0.56
6:O:291:PRO:HA	10:S:725:ARG:HH12	1.69	0.56
6:O:482:ILE:HG21	6:O:510:SER:HB3	1.86	0.56
7:P:85:ILE:O	7:P:96:THR:N	2.37	0.56
8:Q:801:THR:O	8:Q:805:LYS:HG2	2.05	0.56
10:S:1257:ILE:O	10:S:1261:LEU:HG	2.06	0.56
11:T:955:HIS:HB3	11:T:960:ASN:HB2	1.87	0.56
11:T:993:ILE:HG23	11:T:997:TYR:CE2	2.40	0.56
12:U:563:GLY:O	12:U:569:ARG:NH2	2.28	0.56
1:A:369:TRP:HE1	1:A:404:TYR:HA	1.70	0.56
2:B:149:ARG:NH2	2:B:169:SER:OG	2.38	0.56
4:D:431:GLN:OE1	11:T:113:ILE:HG13	2.05	0.56
4:D:1004:PHE:HZ	4:D:1036:LEU:HD12	1.70	0.56
4:D:1011:GLY:HA2	4:D:1043:ARG:HH12	1.71	0.56
6:F:324:PRO:CB	6:F:355:TYR:HE1	2.16	0.56
8:H:177:ILE:HG23	8:H:181:LYS:CE	2.36	0.56
1:J:70:LYS:HD3	2:K:246:HIS:CD2	2.40	0.56
1:J:541:GLU:O	1:J:545:MET:HG2	2.05	0.56
1:J:600:ARG:NH1	4:M:1122:ASN:OD1	2.39	0.56
6:O:339:PRO:HD2	7:P:172:SER:HB2	1.87	0.56
6:O:408:GLU:HA	6:O:411:LYS:HG2	1.87	0.56
6:O:438:ILE:HG12	6:O:502:ARG:HD3	1.86	0.56
8:Q:538:LEU:HB3	8:Q:567:TYR:HB2	1.88	0.56
10:S:1417:ARG:HA	10:S:1420:LEU:HD12	1.87	0.56
12:U:269:ASN:HA	12:U:272:LEU:HD12	1.88	0.56
12:U:555:LEU:HD12	12:U:558:GLU:HB2	1.87	0.56
6:F:416:TRP:O	6:F:420:THR:HG23	2.06	0.56
6:F:486:LEU:HA	6:F:489:TRP:CD1	2.40	0.56
8:H:436:TRP:CH2	8:H:504:HIS:HD2	2.23	0.56
1:J:449:LEU:HB3	1:J:453:ARG:HH12	1.69	0.56
4:M:450:ILE:HG13	9:R:127:SER:HB2	1.88	0.56
8:Q:280:ILE:HA	8:Q:283:TYR:CD2	2.41	0.56
3:C:113:ARG:NH2	4:D:1363:LYS:O	2.38	0.56
6:F:259:TRP:HZ3	7:G:274:ASN:ND2	2.03	0.56
7:G:95:LYS:NZ	7:G:98:GLU:HG2	2.20	0.56
1:J:369:TRP:HB3	1:J:400:LEU:HD22	1.87	0.56
1:J:638:ALA:HA	1:J:641:LEU:HD12	1.85	0.56
3:L:113:ARG:HH22	4:M:1367:TYR:HE2	1.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:216:ALA:HB3	4:M:232:PRO:HG3	1.88	0.56
4:M:522:GLU:HG2	9:R:60:ARG:H	1.69	0.56
4:M:553:VAL:HG12	4:M:555:PRO:HD3	1.87	0.56
4:M:1112:ARG:HG3	10:S:466:PRO:HB3	1.88	0.56
6:O:714:LEU:HD23	6:O:718:LEU:HD12	1.86	0.56
8:Q:676:ARG:HH21	8:Q:717:GLN:HG3	1.70	0.56
9:R:324:ILE:HG22	9:R:328:ILE:HD11	1.88	0.56
9:R:582:ILE:O	9:R:586:GLN:NE2	2.38	0.56
10:S:1112:TRP:HZ3	10:S:1115:LYS:HZ3	1.51	0.56
10:S:1178:ARG:HH21	10:S:1179:LYS:HE2	1.70	0.56
10:S:1820:GLN:NE2	10:S:1824:ASN:OD1	2.37	0.56
12:U:484:GLU:O	12:U:487:ARG:NE	2.37	0.56
1:A:444:THR:HG21	1:A:447:LYS:CE	2.35	0.56
2:B:284:TRP:HB3	2:B:337:ILE:HB	1.87	0.56
4:D:1312:LYS:HE3	4:D:1316:HIS:CE1	2.40	0.56
4:D:1354:LEU:HD21	4:D:1411:LEU:HD11	1.88	0.56
6:F:733:SER:CB	6:F:742:GLU:HG3	2.36	0.56
6:F:888:LEU:HA	6:F:891:LEU:HB2	1.87	0.56
7:G:100:THR:HG22	7:G:101:GLY:H	1.69	0.56
8:H:337:LEU:HA	8:H:340:TYR:CD2	2.41	0.56
8:H:616:ALA:HB1	8:H:621:LEU:HB2	1.87	0.56
8:H:641:GLU:HB3	8:H:693:SER:HB2	1.86	0.56
9:I:543:LEU:HD11	9:I:606:LEU:HD22	1.88	0.56
9:I:959:LYS:HB3	9:I:979:ILE:HD13	1.88	0.56
1:J:594:GLN:O	1:J:598:LEU:HG	2.06	0.56
3:L:308:ASN:HB3	3:L:314:LYS:HE2	1.87	0.56
4:M:911:PHE:HZ	4:M:937:VAL:HG12	1.69	0.56
4:M:1069:ALA:O	4:M:1080:TYR:OH	2.21	0.56
8:Q:732:ASP:HB3	8:Q:736:ARG:NH1	2.20	0.56
9:R:890:LEU:HD12	9:R:895:ARG:HH22	1.70	0.56
10:S:1337:VAL:O	10:S:1341:THR:HG22	2.04	0.56
11:T:14:ALA:HA	11:T:484:GLY:HA3	1.86	0.56
12:U:607:LYS:NZ	12:U:632:LEU:O	2.39	0.56
1:A:191:HIS:CE1	1:A:193:LYS:HE2	2.41	0.56
1:A:497:ALA:O	1:A:501:SER:OG	2.20	0.56
1:A:636:ALA:HA	1:A:639:ARG:HG2	1.86	0.56
2:B:224:PRO:HG2	2:B:271:PRO:HA	1.87	0.56
4:D:218:THR:HG22	4:D:230:ALA:HB3	1.87	0.56
6:F:780:LEU:HB2	6:F:803:LEU:HD13	1.88	0.56
8:H:484:PHE:CE1	8:H:508:LYS:HB2	2.41	0.56
8:H:889:ARG:HA	8:H:892:LEU:HG	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:524:ALA:HB1	9:I:600:PHE:CE1	2.41	0.56
1:J:168:VAL:HG21	1:J:307:VAL:HG21	1.88	0.56
2:K:15:SER:HB3	2:K:38:TRP:CD1	2.41	0.56
4:M:610:ILE:HD13	4:M:613:LEU:HD12	1.86	0.56
4:M:940:GLU:HB2	4:M:943:LEU:HD12	1.88	0.56
5:N:90:LEU:HD23	5:N:111:PHE:HD2	1.71	0.56
9:R:195:PHE:CZ	9:R:215:SER:HB2	2.41	0.56
9:R:1098:GLU:HA	9:R:1139:GLN:HG2	1.88	0.56
10:S:668:GLN:NE2	10:S:673:VAL:H	2.03	0.56
10:S:1043:VAL:O	10:S:1094:HIS:HD2	1.89	0.56
10:S:1245:ALA:O	10:S:1249:GLN:NE2	2.38	0.56
10:S:1301:PRO:O	10:S:1305:ARG:HG3	2.06	0.56
11:T:990:ARG:HA	11:T:993:ILE:HD12	1.88	0.56
1:A:78:ILE:HD11	1:A:108:VAL:HG21	1.87	0.56
3:C:277:HIS:NE2	3:C:303:ARG:HG3	2.20	0.56
7:G:212:ASP:HB3	7:G:235:GLN:HE21	1.70	0.56
8:H:436:TRP:CD1	8:H:495:VAL:HG11	2.23	0.56
8:H:736:ARG:NH1	8:H:816:ASP:HB2	2.21	0.56
9:I:843:ALA:HA	5:N:1:MET:HE1	1.87	0.56
2:K:16:ARG:HH11	2:K:81:MET:HB2	1.69	0.56
3:L:295:SER:O	3:L:302:VAL:HA	2.06	0.56
4:M:299:LEU:O	4:M:310:MET:HA	2.06	0.56
4:M:542:GLN:HA	4:M:545:LEU:HD12	1.88	0.56
6:O:535:LEU:HA	6:O:538:HIS:ND1	2.21	0.56
6:O:630:ASP:OD1	6:O:632:ARG:NE	2.38	0.56
7:P:95:LYS:NZ	7:P:98:GLU:HB2	2.20	0.56
8:Q:583:TYR:HA	8:Q:586:HIS:CE1	2.41	0.56
8:Q:808:ILE:HG12	8:Q:848:MET:HE3	1.88	0.56
9:R:871:ARG:NH1	9:R:874:THR:HB	2.21	0.56
1:A:69:ARG:HD2	2:B:245:ARG:CD	2.36	0.55
1:A:153:GLU:OE1	1:A:153:GLU:N	2.25	0.55
2:B:66:PRO:HG2	2:B:367:ILE:HD13	1.88	0.55
3:C:62:ARG:HB3	3:C:77:CYS:SG	2.46	0.55
3:C:162:LYS:NZ	3:C:198:GLN:HG2	2.21	0.55
4:D:1047:GLN:OE1	4:D:1047:GLN:N	2.38	0.55
5:E:79:ALA:HB3	5:E:96:ALA:HB3	1.88	0.55
8:H:374:LEU:O	8:H:390:GLU:HG2	2.05	0.55
9:I:242:MET:HE3	9:I:243:LEU:HB2	1.88	0.55
4:M:634:HIS:CD2	4:M:635:PRO:HD2	2.41	0.55
6:O:561:GLN:O	6:O:563:GLN:NE2	2.39	0.55
8:Q:301:MET:HE2	12:U:111:LEU:HD13	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:532:LEU:HG	8:Q:533:LEU:HG	1.86	0.55
10:S:927:GLN:HA	10:S:930:ILE:HD12	1.87	0.55
10:S:1006:TYR:CE1	10:S:1016:ASN:HA	2.40	0.55
10:S:1305:ARG:NH1	10:S:1347:SER:OG	2.34	0.55
11:T:143:GLN:H	11:T:312:LEU:HD13	1.71	0.55
11:T:185:SER:HA	11:T:208:ARG:HH11	1.71	0.55
11:T:401:ASP:HB3	11:T:404:ARG:HB2	1.89	0.55
12:U:406:GLU:CG	12:U:414:TYR:HB2	2.34	0.55
2:B:69:LEU:HB3	2:B:108:GLN:CD	2.27	0.55
2:B:257:HIS:CD2	2:B:259:ALA:H	2.24	0.55
3:C:86:TRP:CE3	3:C:103:TRP:HB3	2.40	0.55
6:F:342:HIS:HE2	6:F:344:ARG:HE	1.54	0.55
6:F:535:LEU:HA	6:F:538:HIS:ND1	2.21	0.55
8:H:436:TRP:CB	8:H:498:GLU:OE1	2.54	0.55
8:H:533:LEU:HA	8:H:537:LEU:HD22	1.88	0.55
1:J:490:ARG:HH11	2:K:26:SER:H	1.52	0.55
5:N:305:HIS:CE1	5:N:307:ARG:HG2	2.41	0.55
6:O:263:HIS:HE1	6:O:307:GLU:N	2.04	0.55
6:O:787:GLU:HA	6:O:790:LYS:NZ	2.21	0.55
7:P:21:MET:HE3	7:P:22:ASP:OD1	2.05	0.55
8:Q:152:LYS:O	8:Q:155:LEU:HB3	2.05	0.55
8:Q:206:GLN:HB3	8:Q:503:TYR:CG	2.42	0.55
8:Q:355:ARG:NH2	8:Q:359:ARG:NE	2.44	0.55
10:S:624:VAL:HG23	10:S:625:VAL:H	1.71	0.55
11:T:564:LYS:O	11:T:567:THR:OG1	2.22	0.55
11:T:882:LEU:HD23	11:T:913:MET:HG2	1.87	0.55
12:U:188:GLN:HG3	12:U:212:ALA:HB2	1.87	0.55
12:U:718:LEU:O	12:U:719:LYS:HG2	2.06	0.55
6:F:408:GLU:HA	6:F:411:LYS:HG2	1.88	0.55
8:H:276:PHE:CE2	8:H:280:ILE:HD11	2.41	0.55
1:J:58:ARG:NH1	1:J:64:TYR:OH	2.40	0.55
2:K:8:LYS:HD3	2:K:66:PRO:HD2	1.89	0.55
4:M:472:ILE:HA	4:M:475:LEU:HD12	1.88	0.55
4:M:1066:GLU:O	4:M:1070:ARG:HG2	2.06	0.55
6:O:352:ILE:HD11	6:O:644:LEU:HD21	1.88	0.55
6:O:796:GLU:HB3	6:O:800:LYS:HZ3	1.71	0.55
7:P:235:GLN:HA	7:P:263:VAL:HA	1.88	0.55
8:Q:337:LEU:HA	8:Q:340:TYR:CD2	2.41	0.55
10:S:1184:LEU:HD12	10:S:1187:ILE:HD12	1.88	0.55
11:T:434:VAL:HG13	11:T:486:ILE:HD13	1.88	0.55
11:T:806:LEU:HD23	11:T:809:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:314:ILE:O	12:U:315:GLU:HG3	2.05	0.55
12:U:552:PHE:HB3	12:U:567:PHE:CE1	2.40	0.55
1:A:74:GLU:N	1:A:74:GLU:OE1	2.40	0.55
1:A:318:LYS:HD2	1:A:319:PRO:HD2	1.89	0.55
2:B:48:TRP:CZ2	2:B:68:GLN:HB2	2.41	0.55
2:B:270:ASN:HD21	2:B:356:GLN:HE22	1.55	0.55
3:C:208:LYS:NZ	3:C:209:TYR:O	2.38	0.55
3:C:235:PHE:HB2	3:C:250:MET:O	2.06	0.55
3:C:251:LYS:HD2	3:C:252:PRO:HD2	1.88	0.55
4:D:1115:ARG:O	4:D:1119:LYS:HG2	2.06	0.55
6:F:438:ILE:HG12	6:F:502:ARG:HD3	1.86	0.55
6:F:474:GLY:C	6:F:479:ARG:HH12	2.09	0.55
6:F:561:GLN:O	6:F:563:GLN:NE2	2.38	0.55
8:H:773:PHE:CZ	1:J:563:THR:HG23	2.41	0.55
1:J:96:ALA:HB3	2:K:318:ASN:O	2.06	0.55
3:L:11:HIS:NE2	3:L:29:THR:O	2.39	0.55
3:L:134:SER:OG	3:L:140:ARG:NH2	2.38	0.55
6:O:843:GLN:HB3	6:O:853:GLN:HB2	1.88	0.55
10:S:116:GLU:HB2	10:S:127:ARG:HE	1.72	0.55
10:S:1973:SER:O	10:S:1976:LYS:HG2	2.07	0.55
12:U:529:PHE:O	12:U:533:LEU:HG	2.06	0.55
1:A:115:GLU:O	1:A:119:LEU:HG	2.06	0.55
1:A:398:GLU:OE1	1:A:398:GLU:N	2.39	0.55
3:C:287:ASN:CG	3:C:291:THR:H	2.09	0.55
4:D:328:VAL:HG22	4:D:386:HIS:CE1	2.41	0.55
6:F:297:LEU:HD13	6:F:301:PRO:HD3	1.88	0.55
6:F:379:THR:HG1	6:F:633:LEU:CD1	2.20	0.55
6:F:827:LYS:O	6:F:831:LYS:HG2	2.06	0.55
7:G:62:GLN:HE21	7:G:77:CYS:HB3	1.71	0.55
1:J:1:MET:HG2	1:J:356:HIS:HB3	1.88	0.55
1:J:79:PHE:HD1	1:J:374:HIS:CE1	2.24	0.55
1:J:106:ARG:HA	1:J:109:LEU:HD12	1.87	0.55
4:M:45:SER:H	4:M:579:HIS:CE1	2.24	0.55
4:M:360:TYR:HB2	4:M:369:PHE:CE1	2.41	0.55
4:M:410:TRP:CE3	4:M:424:HIS:HB3	2.42	0.55
4:M:1142:VAL:HA	4:M:1176:ILE:HA	1.89	0.55
5:N:73:GLU:OE1	5:N:105:ARG:NH2	2.39	0.55
7:P:61:TRP:HB2	7:P:77:CYS:SG	2.46	0.55
9:R:871:ARG:HH11	9:R:874:THR:HB	1.72	0.55
10:S:381:THR:HB	10:S:385:PHE:HE2	1.71	0.55
10:S:772:ASP:OD1	10:S:773:TYR:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:366:ASP:N	11:T:366:ASP:OD1	2.39	0.55
12:U:540:PHE:HB3	12:U:543:THR:OG1	2.06	0.55
4:D:881:CYS:SG	4:D:885:ASN:ND2	2.80	0.55
6:F:697:ARG:HH12	7:G:272:THR:HG22	1.72	0.55
6:F:858:LYS:HD2	6:F:859:ARG:HE	1.70	0.55
8:H:280:ILE:HA	8:H:283:TYR:CD2	2.41	0.55
1:J:542:PHE:HE1	1:J:554:ALA:HB1	1.72	0.55
4:M:123:LEU:HB3	4:M:185:SER:HB2	1.89	0.55
4:M:843:SER:O	4:M:850:ARG:NH1	2.40	0.55
4:M:1308:CYS:HA	4:M:1311:ASN:ND2	2.21	0.55
4:M:1363:LYS:HG2	4:M:1366:GLN:HE22	1.70	0.55
5:N:22:VAL:HG22	5:N:36:LEU:HD11	1.88	0.55
5:N:102:LYS:O	5:N:122:GLY:HA3	2.07	0.55
5:N:305:HIS:HE1	5:N:307:ARG:HG2	1.71	0.55
6:O:416:TRP:O	6:O:420:THR:HG23	2.06	0.55
6:O:537:ILE:HG23	6:O:541:TYR:HD2	1.71	0.55
7:P:27:ARG:HG2	7:P:40:PHE:O	2.07	0.55
7:P:30:THR:O	7:P:37:VAL:HA	2.07	0.55
7:P:242:TRP:CZ2	7:P:254:PRO:HB3	2.42	0.55
9:R:359:TYR:HA	9:R:382:GLN:HE22	1.72	0.55
10:S:764:ASP:HB2	10:S:768:LYS:NZ	2.21	0.55
10:S:1414:GLN:O	10:S:1417:ARG:HG2	2.07	0.55
10:S:1966:GLY:O	10:S:1970:PHE:HB3	2.07	0.55
12:U:811:ARG:HB3	12:U:815:MET:HE1	1.88	0.55
1:A:408:LEU:HA	1:A:414:LEU:HD23	1.87	0.55
1:A:466:SER:O	1:A:469:LYS:HG3	2.07	0.55
1:A:648:GLU:O	1:A:652:GLN:HG2	2.07	0.55
4:D:1340:TYR:HE2	4:D:1352:LEU:CD1	2.18	0.55
6:F:254:GLY:O	6:F:261:LEU:HG	2.07	0.55
6:F:635:TRP:CH2	6:F:677:VAL:HG13	2.42	0.55
6:F:909:LEU:O	6:F:913:THR:HG23	2.07	0.55
8:H:247:LYS:HB3	8:H:251:ARG:HH21	1.72	0.55
8:H:366:ALA:HA	8:H:369:LEU:HD12	1.89	0.55
8:H:839:LEU:HA	8:H:842:ARG:NE	2.22	0.55
9:I:717:ILE:HG22	9:I:721:MET:HE3	1.87	0.55
4:M:1272:LEU:H	4:M:1276:ILE:HG12	1.70	0.55
6:O:785:ARG:HB3	6:O:787:GLU:CD	2.27	0.55
6:O:862:ASN:O	6:O:865:ARG:HG3	2.06	0.55
8:Q:254:LEU:HD23	8:Q:257:GLN:HE22	1.70	0.55
10:S:753:ALA:HA	10:S:756:TRP:CE3	2.41	0.55
10:S:985:LEU:HD23	10:S:988:LEU:HD12	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:868:ALA:HB2	11:T:877:HIS:CE1	2.42	0.55
12:U:515:SER:HA	12:U:525:ARG:HH21	1.71	0.55
2:B:69:LEU:HB3	2:B:108:GLN:NE2	2.22	0.55
2:B:101:PHE:HA	2:B:111:SER:O	2.07	0.55
2:B:215:VAL:HB	2:B:235:GLN:HB2	1.88	0.55
6:F:346:ASN:N	6:F:347:PRO:HD3	2.21	0.55
6:F:767:ALA:HB2	6:F:776:LEU:HD12	1.89	0.55
2:K:146:GLU:HG2	2:K:171:THR:HG23	1.89	0.55
6:O:359:VAL:HG21	6:O:380:TRP:CD1	2.42	0.55
8:Q:366:ALA:HA	8:Q:369:LEU:HD12	1.88	0.55
10:S:866:GLU:N	10:S:866:GLU:OE2	2.37	0.55
10:S:1781:PHE:O	10:S:1910:TYR:OH	2.17	0.55
10:S:1900:LEU:O	10:S:2002:ILE:HD11	2.07	0.55
12:U:44:ARG:HG2	12:U:122:PHE:CD2	2.41	0.55
12:U:738:PHE:HB3	12:U:742:ILE:HG23	1.88	0.55
1:A:79:PHE:O	1:A:83:GLN:NE2	2.40	0.55
1:A:106:ARG:HH21	1:A:145:ASN:HA	1.70	0.55
1:A:150:LEU:HD22	1:A:151:PHE:CZ	2.41	0.55
4:D:609:LEU:HD11	4:D:674:ALA:HB1	1.89	0.55
4:D:1185:GLU:O	4:D:1188:LEU:HG	2.07	0.55
6:F:900:MET:SD	6:F:901:PRO:HD2	2.47	0.55
1:J:66:PRO:HA	1:J:69:ARG:CZ	2.36	0.55
1:J:70:LYS:NZ	2:K:246:HIS:H	2.05	0.55
1:J:446:LYS:NZ	1:J:447:LYS:HE2	2.21	0.55
1:J:603:GLU:OE2	4:M:1125:LEU:HD21	2.07	0.55
1:J:613:THR:HG22	1:J:620:LYS:HG3	1.88	0.55
2:K:21:PRO:HD2	2:K:86:LYS:HA	1.88	0.55
4:M:105:TRP:HB2	4:M:112:LEU:HD11	1.89	0.55
4:M:445:ASP:O	4:M:535:TYR:OH	2.13	0.55
4:M:477:LYS:O	4:M:480:GLN:HG2	2.07	0.55
5:N:282:ILE:HD13	5:N:292:LEU:HD23	1.89	0.55
6:O:554:HIS:O	6:O:557:GLU:HG3	2.07	0.55
6:O:670:LEU:HB3	6:O:673:TRP:CE3	2.42	0.55
7:P:54:ARG:NH1	7:P:56:HIS:H	2.04	0.55
8:Q:127:THR:HA	12:U:160:GLN:HG3	1.88	0.55
8:Q:276:PHE:CE2	8:Q:280:ILE:HD11	2.41	0.55
8:Q:549:ARG:NH2	8:Q:555:ALA:H	2.05	0.55
9:R:222:ARG:HB3	9:R:234:ARG:HG3	1.87	0.55
9:R:655:GLN:NE2	9:R:656:LEU:HG	2.22	0.55
10:S:970:GLN:O	10:S:974:THR:HG23	2.06	0.55
10:S:1857:GLU:OE2	10:S:1877:ARG:HG2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:2000:ARG:HH12	10:S:2003:ARG:HG2	1.71	0.55
12:U:742:ILE:O	12:U:746:LEU:HG	2.07	0.55
4:D:369:PHE:HB2	4:D:390:ILE:HB	1.88	0.55
4:D:432:ALA:HB1	11:T:109:TYR:CE2	2.42	0.55
4:D:522:GLU:O	4:D:526:ILE:HG12	2.06	0.55
4:D:1352:LEU:HB3	4:D:1356:TYR:CZ	2.42	0.55
6:F:252:ARG:NH2	7:G:268:SER:HB2	2.22	0.55
6:F:554:HIS:O	6:F:557:GLU:HG3	2.07	0.55
6:F:712:ASN:O	6:F:716:GLN:HG2	2.06	0.55
7:G:259:LYS:HE2	12:U:280:GLN:HG2	1.89	0.55
1:J:76:HIS:O	1:J:80:VAL:HG23	2.07	0.55
1:J:199:THR:HA	1:J:202:VAL:HG22	1.88	0.55
1:J:556:SER:O	1:J:559:LEU:HG	2.07	0.55
2:K:6:ALA:HB3	2:K:369:VAL:HB	1.89	0.55
2:K:296:THR:HB	2:K:336:GLU:HA	1.88	0.55
3:L:171:ASN:HD22	3:L:181:MET:HB3	1.72	0.55
7:P:77:CYS:HB3	7:P:109:VAL:HG13	1.88	0.55
7:P:87:LYS:HG3	7:P:89:GLU:OE1	2.06	0.55
8:Q:247:LYS:HB3	8:Q:251:ARG:HH21	1.72	0.55
8:Q:355:ARG:HH12	12:U:30:GLU:C	2.11	0.55
9:R:202:PHE:HD2	9:R:265:LEU:HD23	1.72	0.55
9:R:572:GLU:HG3	9:R:577:SER:HB2	1.88	0.55
10:S:1121:LEU:HD23	10:S:1290:ILE:HG22	1.88	0.55
10:S:1338:PHE:HE1	10:S:1422:GLY:HA3	1.72	0.55
11:T:701:TYR:HE1	11:T:817:ASP:HB3	1.72	0.55
11:T:807:ILE:HG22	11:T:811:GLN:HE21	1.72	0.55
11:T:915:GLN:O	11:T:915:GLN:NE2	2.40	0.55
1:A:53:PHE:O	3:C:5:ARG:NH2	2.40	0.54
1:A:127:ALA:O	1:A:131:ILE:HG13	2.07	0.54
1:A:412:HIS:O	1:A:415:TRP:NE1	2.36	0.54
1:A:445:GLU:HA	2:B:24:ALA:O	2.07	0.54
1:A:550:GLN:HB3	1:A:553:GLU:OE2	2.07	0.54
1:A:620:LYS:NZ	1:A:622:ASP:OD2	2.41	0.54
3:C:141:ILE:O	3:C:156:GLN:N	2.40	0.54
4:D:495:GLU:O	4:D:498:LYS:HG3	2.07	0.54
4:D:1380:LEU:HD22	6:F:246:PHE:HB2	1.87	0.54
6:F:410:ARG:HG3	6:F:547:ALA:O	2.08	0.54
6:F:607:LEU:CD2	6:F:618:LEU:HD11	2.36	0.54
9:I:220:LEU:O	9:I:240:GLN:NE2	2.39	0.54
9:I:1106:ALA:HA	9:I:1109:LEU:HD12	1.89	0.54
2:K:273:HIS:ND1	2:K:287:ASP:OD1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:32:SER:HA	3:L:59:SER:HA	1.89	0.54
3:L:248:PHE:CD1	3:L:270:THR:HA	2.42	0.54
4:M:478:ALA:O	4:M:481:ILE:HB	2.08	0.54
6:O:472:MET:HA	6:O:509:LEU:HD13	1.89	0.54
7:P:65:TRP:CD2	7:P:74:LEU:HD21	2.41	0.54
7:P:227:THR:HA	7:P:245:ASP:HA	1.88	0.54
8:Q:364:TRP:O	8:Q:368:THR:HG23	2.06	0.54
9:R:452:VAL:HG22	9:R:462:THR:HB	1.89	0.54
10:S:1464:ASP:O	10:S:1468:ILE:HG12	2.06	0.54
10:S:1659:LEU:O	10:S:1720:ARG:NH1	2.39	0.54
1:A:643:ARG:NH2	4:D:1088:ILE:HG22	2.22	0.54
2:B:181:THR:HB	2:B:197:LEU:HB2	1.89	0.54
2:B:241:ILE:HD13	2:B:252:SER:HB2	1.88	0.54
4:D:1402:GLN:H	4:D:1402:GLN:CD	2.11	0.54
6:F:290:LYS:HB2	7:G:47:GLN:H	1.72	0.54
7:G:192:LYS:HD2	7:G:194:TRP:CZ2	2.42	0.54
8:H:784:LYS:O	8:H:787:GLU:HG3	2.07	0.54
9:I:858:GLN:NE2	9:I:859:ILE:HG23	2.23	0.54
4:M:922:GLU:HG2	4:M:925:LYS:HE3	1.89	0.54
7:P:86:TRP:HA	7:P:95:LYS:HA	1.88	0.54
8:Q:166:ILE:HA	8:Q:169:TYR:HD2	1.72	0.54
8:Q:169:TYR:HE2	8:Q:547:PHE:HZ	1.55	0.54
9:R:704:SER:O	9:R:707:TRP:HB3	2.07	0.54
10:S:1265:VAL:O	10:S:1269:LYS:HG2	2.08	0.54
10:S:1300:ILE:HD12	10:S:1301:PRO:HD2	1.89	0.54
10:S:1305:ARG:O	10:S:1309:ILE:HG13	2.08	0.54
10:S:1779:CYS:HA	10:S:1905:ARG:HH12	1.72	0.54
11:T:110:ASP:O	11:T:112:GLY:N	2.38	0.54
1:A:18:GLN:OE1	1:A:18:GLN:N	2.40	0.54
1:A:302:TRP:O	1:A:305:PHE:HB3	2.08	0.54
1:A:441:PRO:HG2	3:C:25:ARG:HG2	1.90	0.54
4:D:1199:ASN:O	4:D:1202:THR:OG1	2.23	0.54
6:F:652:HIS:CE1	6:F:653:ARG:HG3	2.42	0.54
6:F:735:ARG:CZ	7:G:71:GLY:HA2	2.38	0.54
8:H:172:THR:O	8:H:176:GLN:NE2	2.40	0.54
9:I:956:GLY:O	9:I:959:LYS:HG3	2.08	0.54
4:M:446:ASP:HB3	9:R:129:LYS:HD3	1.89	0.54
4:M:1228:ILE:O	4:M:1232:GLN:HG2	2.08	0.54
6:O:603:HIS:HD2	6:O:606:LYS:NZ	2.06	0.54
9:R:989:GLN:HE22	9:R:1009:VAL:HA	1.71	0.54
10:S:300:MET:HG3	10:S:306:TYR:CE1	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:257:HIS:CG	2:B:258:GLU:H	2.25	0.54
2:B:296:THR:O	2:B:308:SER:OG	2.23	0.54
3:C:235:PHE:HB3	3:C:251:LYS:HD2	1.89	0.54
4:D:1194:THR:O	4:D:1197:LYS:HG3	2.06	0.54
6:F:671:TRP:O	6:F:675:ILE:HD12	2.07	0.54
6:F:847:ALA:O	6:F:850:ARG:HG3	2.08	0.54
8:H:601:GLU:HG2	8:H:630:VAL:HG13	1.88	0.54
1:J:390:LEU:HA	3:L:309:TYR:CE1	2.43	0.54
4:M:238:ILE:HB	4:M:257:LEU:HB2	1.87	0.54
4:M:1391:LEU:HD12	4:M:1394:ALA:HB3	1.88	0.54
6:O:259:TRP:CZ3	7:P:275:ILE:HB	2.43	0.54
6:O:672:GLU:HB2	6:O:714:LEU:HD21	1.89	0.54
8:Q:292:THR:N	8:Q:327:ASP:OD2	2.40	0.54
8:Q:449:ASP:O	8:Q:452:VAL:HG12	2.08	0.54
8:Q:807:LYS:O	8:Q:811:VAL:HG12	2.08	0.54
10:S:469:SER:H	10:S:472:LEU:HB2	1.72	0.54
10:S:1079:ARG:HG3	10:S:1080:TYR:N	2.22	0.54
10:S:1757:SER:O	10:S:1761:GLU:HG3	2.07	0.54
10:S:1876:ARG:HD3	10:S:1880:LYS:HE2	1.89	0.54
11:T:108:LEU:HB3	11:T:118:LYS:HB3	1.88	0.54
1:A:449:LEU:O	1:A:453:ARG:HG2	2.07	0.54
3:C:202:TYR:CE1	3:C:204:GLU:HA	2.43	0.54
4:D:434:HIS:N	11:T:112:GLY:O	2.40	0.54
4:D:702:SER:HA	4:D:836:PHE:CB	2.37	0.54
7:G:35:ARG:HH12	7:G:57:ASP:C	2.11	0.54
7:G:269:TRP:CE2	7:G:276:LEU:HD13	2.43	0.54
8:H:173:CYS:HA	8:H:176:GLN:NE2	2.23	0.54
9:I:1029:GLU:HG2	9:I:1088:VAL:HG22	1.90	0.54
3:L:64:THR:HG23	3:L:121:PHE:CE2	2.43	0.54
5:N:102:LYS:HZ2	5:N:125:GLY:HA2	1.73	0.54
6:O:594:ILE:HG13	6:O:595:SER:N	2.22	0.54
6:O:780:LEU:HA	6:O:783:LEU:HD12	1.90	0.54
7:P:256:LEU:HD21	7:P:259:LYS:HB2	1.88	0.54
8:Q:177:ILE:O	8:Q:181:LYS:HG2	2.06	0.54
9:R:221:VAL:HG22	9:R:235:VAL:HG22	1.88	0.54
9:R:833:PRO:HA	9:R:836:ILE:HG12	1.89	0.54
10:S:237:CYS:HA	10:S:277:TYR:CE1	2.43	0.54
10:S:1327:GLN:HA	10:S:1330:MET:HE2	1.89	0.54
10:S:1890:SER:HA	10:S:1985:TYR:CE2	2.41	0.54
11:T:297:VAL:H	11:T:334:SER:HB3	1.72	0.54
11:T:993:ILE:HG23	11:T:997:TYR:HE2	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:374:LEU:HA	12:U:377:ARG:HH21	1.72	0.54
12:U:811:ARG:HE	12:U:814:GLN:NE2	2.06	0.54
1:A:37:THR:HA	3:C:15:ILE:HD11	1.89	0.54
1:A:449:LEU:HD12	1:A:452:LEU:HD22	1.89	0.54
4:D:41:ASN:OD1	4:D:42:LEU:N	2.36	0.54
4:D:1133:LEU:O	11:T:1003:ARG:NH2	2.21	0.54
6:F:472:MET:HA	6:F:509:LEU:HD13	1.90	0.54
7:G:228:SER:O	7:G:243:THR:HA	2.08	0.54
8:H:862:TYR:HB2	8:H:902:LEU:HG	1.90	0.54
1:J:417:LEU:HB3	1:J:421:TYR:HE2	1.72	0.54
1:J:468:CYS:HA	1:J:487:TRP:CE3	2.42	0.54
1:J:569:CYS:HA	1:J:572:TRP:HE3	1.72	0.54
3:L:87:GLU:CD	3:L:106:ARG:HD3	2.28	0.54
3:L:199:ILE:HG22	3:L:212:ALA:HB3	1.90	0.54
4:M:1352:LEU:HG	4:M:1356:TYR:CE2	2.41	0.54
6:O:262:VAL:HA	6:O:306:VAL:HG22	1.88	0.54
6:O:438:ILE:H	6:O:438:ILE:HD12	1.72	0.54
6:O:693:GLU:CG	6:O:697:ARG:HH12	2.20	0.54
8:Q:210:THR:HG22	8:Q:214:ILE:HD11	1.89	0.54
8:Q:697:GLU:O	8:Q:700:LYS:HG3	2.08	0.54
9:R:524:ALA:HB1	9:R:600:PHE:HE1	1.72	0.54
9:R:812:ASN:HB3	9:R:815:ARG:HG2	1.88	0.54
10:S:407:LEU:HD23	10:S:410:ARG:HH21	1.73	0.54
11:T:578:LEU:HD13	11:T:636:PHE:HE1	1.72	0.54
1:A:114:GLU:O	1:A:118:THR:HG23	2.08	0.54
1:A:432:TYR:HD1	1:A:435:LEU:HD13	1.73	0.54
1:A:500:ILE:HG13	1:A:503:ARG:HH21	1.72	0.54
2:B:73:LYS:HZ1	6:O:278:ARG:H	1.55	0.54
4:D:259:GLN:H	4:D:265:ARG:HH21	1.55	0.54
5:E:256:MET:HE2	5:E:270:THR:HG21	1.89	0.54
6:F:359:VAL:HG21	6:F:380:TRP:CD1	2.42	0.54
6:F:503:LEU:HD22	6:F:523:ILE:HG21	1.89	0.54
6:F:537:ILE:HG23	6:F:541:TYR:HD2	1.71	0.54
6:F:757:LYS:HB3	6:F:761:ARG:NH1	2.23	0.54
8:H:292:THR:N	8:H:327:ASP:OD2	2.40	0.54
9:I:115:ASP:O	9:I:138:LEU:N	2.35	0.54
9:I:1115:LEU:HD21	9:I:1128:LEU:HD22	1.90	0.54
1:J:31:ASP:OD1	1:J:58:ARG:HD3	2.07	0.54
4:M:585:GLY:HA2	4:M:588:LEU:HD12	1.90	0.54
6:O:251:PHE:HB3	7:P:16:ILE:O	2.07	0.54
6:O:638:TRP:HA	6:O:641:LEU:HD12	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:688:GLU:HB3	6:O:692:ARG:NH1	2.23	0.54
8:Q:338:LEU:HB3	8:Q:414:TYR:CG	2.43	0.54
10:S:56:ASN:HB3	10:S:103:ILE:HG22	1.90	0.54
10:S:912:GLU:HA	10:S:915:LYS:HE3	1.89	0.54
10:S:1064:ILE:HA	10:S:1067:LEU:HD12	1.89	0.54
11:T:494:GLN:HB2	11:T:524:LEU:HB2	1.88	0.54
11:T:670:TRP:CZ2	11:T:793:ILE:HG12	2.42	0.54
12:U:87:PHE:CZ	12:U:91:GLU:HG3	2.42	0.54
3:C:19:SER:HB3	3:C:65:TRP:NE1	2.22	0.54
4:D:431:GLN:HG3	11:T:115:LYS:HB2	1.90	0.54
5:E:281:ALA:HA	5:E:293:ILE:HD13	1.90	0.54
6:F:263:HIS:CE1	6:F:305:HIS:HB2	2.43	0.54
8:H:449:ASP:O	8:H:452:VAL:HG12	2.08	0.54
8:H:571:LEU:HG	8:H:576:GLN:HE21	1.73	0.54
8:H:774:THR:HG22	1:J:528:LEU:HD22	1.90	0.54
9:I:655:GLN:NE2	9:I:656:LEU:HG	2.23	0.54
9:I:1014:GLN:O	9:I:1017:GLN:HG3	2.07	0.54
1:J:479:ARG:HH22	1:J:503:ARG:HE	1.56	0.54
2:K:267:HIS:HB3	2:K:270:ASN:O	2.08	0.54
4:M:54:ARG:HB2	4:M:813:THR:HG21	1.89	0.54
4:M:55:GLU:HA	4:M:815:GLY:H	1.73	0.54
4:M:111:THR:OG1	4:M:131:LYS:NZ	2.35	0.54
4:M:395:GLU:HA	9:R:184:HIS:CE1	2.41	0.54
6:O:410:ARG:HG3	6:O:547:ALA:O	2.08	0.54
6:O:699:CYS:SG	6:O:732:ARG:HD3	2.48	0.54
10:S:1764:GLN:HA	10:S:1767:MET:HE3	1.90	0.54
12:U:763:ARG:HG3	12:U:774:ARG:NH2	2.16	0.54
1:A:207:MET:SD	1:A:207:MET:N	2.81	0.54
3:C:308:ASN:OD1	3:C:312:ASN:N	2.41	0.54
4:D:159:GLN:O	4:D:204:ILE:N	2.30	0.54
4:D:1058:HIS:ND1	6:F:910:ARG:CZ	2.71	0.54
6:F:266:ASP:HA	6:F:303:LYS:HZ3	1.72	0.54
6:F:380:TRP:NE1	6:F:633:LEU:HD12	2.22	0.54
6:F:438:ILE:HD12	6:F:438:ILE:H	1.72	0.54
9:I:567:GLU:HA	9:I:571:GLU:HB2	1.89	0.54
9:I:827:ARG:HA	9:I:830:LEU:HD12	1.90	0.54
1:J:492:LYS:HG2	2:K:27:LEU:HD11	1.90	0.54
2:K:120:HIS:H	2:K:151:ASN:HD21	1.56	0.54
3:L:204:GLU:O	3:L:207:ARG:HD2	2.07	0.54
4:M:72:LEU:HA	4:M:158:ASN:HB3	1.90	0.54
4:M:476:GLN:HB3	4:M:489:VAL:O	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:701:LEU:HD23	4:M:848:VAL:HG12	1.89	0.54
4:M:1007:HIS:CE1	4:M:1019:ALA:HB2	2.43	0.54
6:O:617:GLN:OE1	6:O:617:GLN:N	2.41	0.54
6:O:651:GLY:HA2	6:O:654:GLN:HB3	1.90	0.54
7:P:54:ARG:HD3	7:P:55:GLY:N	2.23	0.54
9:R:555:ILE:HG21	9:R:629:HIS:HB3	1.90	0.54
9:R:576:PHE:CZ	9:R:583:LEU:HD13	2.43	0.54
10:S:1111:SER:HA	10:S:1114:MET:HE3	1.90	0.54
10:S:1666:LEU:O	10:S:1670:GLN:HG2	2.07	0.54
11:T:554:SER:HA	11:T:628:ASN:ND2	2.22	0.54
12:U:25:GLU:CD	12:U:33:LEU:H	2.09	0.54
1:A:79:PHE:O	1:A:82:LEU:HB3	2.08	0.54
1:A:501:SER:OG	1:A:533:LEU:HB2	2.08	0.54
3:C:292:VAL:HG22	3:C:306:LYS:HD2	1.90	0.54
4:D:1135:ARG:HD2	4:D:1138:TYR:CE2	2.43	0.54
9:I:786:ILE:HG12	9:I:839:GLN:HG2	1.89	0.54
9:I:946:ARG:HA	9:I:1009:VAL:HG23	1.89	0.54
1:J:600:ARG:NH2	4:M:1122:ASN:HA	2.23	0.54
3:L:41:LYS:HB2	3:L:47:TRP:CZ3	2.43	0.54
4:M:514:VAL:HG21	9:R:68:SER:HB2	1.89	0.54
6:O:494:VAL:HG12	6:O:498:ILE:HG12	1.89	0.54
6:O:619:LEU:HD21	6:O:637:MET:HG2	1.90	0.54
8:Q:362:GLN:N	8:Q:362:GLN:OE1	2.40	0.54
9:R:84:VAL:HA	9:R:87:MET:HE1	1.90	0.54
9:R:643:HIS:CE1	9:R:650:VAL:HG12	2.43	0.54
10:S:313:ARG:O	10:S:318:GLN:NE2	2.40	0.54
10:S:565:HIS:ND1	10:S:584:ARG:HB3	2.23	0.54
10:S:1346:GLN:O	10:S:1350:THR:HG23	2.08	0.54
11:T:267:VAL:HG22	11:T:289:GLN:HE22	1.73	0.54
1:A:8:PRO:HA	3:C:316:ILE:HA	1.90	0.53
2:B:302:ARG:NH2	2:B:339:ASN:HB3	2.23	0.53
4:D:87:CYS:HB3	4:D:554:HIS:CD2	2.43	0.53
4:D:662:GLN:HG3	4:D:666:GLN:HE22	1.72	0.53
4:D:1094:ARG:NH1	4:D:1138:TYR:HB3	2.23	0.53
4:D:1130:CYS:O	4:D:1134:ILE:HG13	2.08	0.53
4:D:1228:ILE:O	4:D:1232:GLN:HG2	2.08	0.53
7:G:218:ALA:C	7:G:269:TRP:HE1	2.12	0.53
1:J:117:HIS:HE1	1:J:134:ILE:HG12	1.73	0.53
1:J:524:GLY:HA2	2:K:57:SER:O	2.08	0.53
1:J:545:MET:HA	1:J:548:GLN:NE2	2.22	0.53
3:L:228:ALA:HA	3:L:286:TRP:CZ3	2.43	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:255:LYS:HE3	3:L:265:LYS:N	2.22	0.53
4:M:520:GLN:NE2	5:N:199:GLN:HG2	2.23	0.53
4:M:947:ILE:O	4:M:948:ARG:HB2	2.08	0.53
4:M:1369:GLY:O	4:M:1371:GLN:NE2	2.41	0.53
8:Q:147:TYR:CE1	8:Q:539:ARG:HG3	2.38	0.53
9:R:564:ARG:O	9:R:568:SER:N	2.41	0.53
10:S:684:ILE:HG23	10:S:687:GLU:OE2	2.09	0.53
12:U:217:ASP:HA	12:U:219:LYS:HE3	1.89	0.53
1:A:126:THR:CG2	1:A:129:LYS:HE3	2.38	0.53
2:B:119:ALA:H	2:B:128:ARG:NH1	2.06	0.53
4:D:1007:HIS:HB3	4:D:1012:HIS:O	2.08	0.53
6:F:650:SER:HB2	6:F:653:ARG:HD2	1.90	0.53
6:F:726:HIS:HA	6:F:745:TYR:CD2	2.43	0.53
8:H:242:LYS:HD3	8:H:376:HIS:CD2	2.43	0.53
1:J:436:HIS:O	1:J:440:ILE:HG23	2.07	0.53
1:J:446:LYS:HZ2	1:J:447:LYS:HE2	1.73	0.53
1:J:534:THR:O	1:J:538:LYS:HG2	2.08	0.53
1:J:627:ASN:O	1:J:630:VAL:HB	2.08	0.53
2:K:152:CYS:HB2	2:K:162:ARG:HB2	1.89	0.53
2:K:195:TRP:HD1	2:K:205:THR:HG1	1.56	0.53
4:M:181:SER:OG	4:M:829:ARG:NH2	2.41	0.53
4:M:258:LYS:HD2	4:M:265:ARG:HD3	1.90	0.53
4:M:441:ASN:C	4:M:441:ASN:HD22	2.08	0.53
4:M:1228:ILE:HG23	4:M:1298:TYR:CE2	2.43	0.53
6:O:428:GLU:HA	6:O:431:LEU:HD12	1.89	0.53
6:O:708:LEU:HA	6:O:711:GLU:OE1	2.08	0.53
6:O:747:LEU:HD13	6:O:782:GLU:HG3	1.90	0.53
8:Q:874:SER:O	8:Q:879:LEU:C	2.47	0.53
9:R:812:ASN:O	9:R:815:ARG:HG2	2.08	0.53
10:S:704:PHE:CE1	10:S:708:ILE:HD11	2.44	0.53
12:U:25:GLU:CG	12:U:32:ASN:HA	2.37	0.53
12:U:125:ALA:C	12:U:129:HIS:HD1	2.09	0.53
12:U:171:GLY:N	12:U:542:PRO:HD2	2.07	0.53
12:U:211:GLU:HA	12:U:214:GLU:OE1	2.08	0.53
1:A:35:TYR:HE1	1:A:54:MET:HA	1.73	0.53
1:A:404:TYR:O	1:A:408:LEU:HG	2.09	0.53
3:C:256:GLU:OE2	3:C:264:THR:HA	2.09	0.53
4:D:1264:TRP:NE1	4:D:1283:ALA:HB2	2.23	0.53
4:D:1412:GLN:O	4:D:1415:MET:HB3	2.08	0.53
6:F:268:LEU:HD12	6:F:271:ARG:HH11	1.72	0.53
6:F:638:TRP:HA	6:F:641:LEU:HD12	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:216:ASP:OD1	7:G:217:VAL:N	2.42	0.53
1:J:96:ALA:HB1	2:K:319:GLN:NE2	2.23	0.53
1:J:117:HIS:CE1	1:J:134:ILE:HG12	2.43	0.53
4:M:345:ARG:NH2	4:M:399:ASP:OD1	2.37	0.53
4:M:416:ASP:OD1	9:R:181:ASN:ND2	2.42	0.53
4:M:639:GLU:HG3	4:M:765:ALA:HB2	1.90	0.53
4:M:1065:ILE:HG21	4:M:1083:LEU:HD13	1.91	0.53
4:M:1072:VAL:HG11	4:M:1079:TYR:CE2	2.44	0.53
5:N:47:ALA:HA	5:N:66:LEU:HG	1.90	0.53
6:O:606:LYS:O	6:O:609:SER:OG	2.25	0.53
8:Q:357:CYS:HA	8:Q:362:GLN:NE2	2.23	0.53
8:Q:590:GLU:OE1	8:Q:590:GLU:N	2.34	0.53
9:R:279:LEU:HB2	9:R:335:LEU:HD22	1.90	0.53
9:R:492:VAL:HG12	9:R:515:ARG:HD3	1.89	0.53
9:R:895:ARG:HB3	9:R:919:LEU:HD11	1.90	0.53
9:R:916:HIS:CD2	9:R:918:HIS:HB3	2.44	0.53
10:S:1415:ARG:HH22	10:S:1416:VAL:HG23	1.74	0.53
10:S:1488:HIS:O	10:S:1492:ARG:HG2	2.08	0.53
10:S:1545:LEU:HG	10:S:1547:LYS:HG2	1.91	0.53
12:U:114:ILE:HG13	12:U:118:ARG:NH1	2.23	0.53
12:U:651:VAL:HA	12:U:661:ARG:HH21	1.73	0.53
1:A:230:VAL:O	1:A:234:LEU:HG	2.08	0.53
1:A:597:GLU:HA	1:A:600:ARG:HG2	1.90	0.53
6:F:683:ASP:C	6:F:687:ARG:HE	2.12	0.53
8:H:177:ILE:HD12	8:H:208:MET:HE3	1.89	0.53
9:I:814:GLU:HG2	9:I:815:ARG:N	2.23	0.53
9:I:855:ILE:HG21	5:N:1:MET:O	2.08	0.53
9:I:921:TRP:HB3	9:I:936:THR:HG21	1.91	0.53
1:J:443:SER:OG	3:L:25:ARG:NH1	2.42	0.53
2:K:89:ILE:O	2:K:100:ILE:HA	2.07	0.53
2:K:131:CYS:SG	2:K:143:SER:HB2	2.48	0.53
3:L:181:MET:SD	3:L:182:ILE:N	2.81	0.53
4:M:867:GLN:O	4:M:875:ASN:ND2	2.41	0.53
4:M:1065:ILE:HG23	4:M:1083:LEU:HD22	1.91	0.53
4:M:1277:THR:HG21	10:S:1247:ILE:HD11	1.90	0.53
6:O:486:LEU:HD13	6:O:489:TRP:HD1	1.73	0.53
7:P:28:LEU:O	7:P:39:ILE:HA	2.08	0.53
8:Q:469:LEU:HD13	8:Q:473:TYR:CE2	2.43	0.53
8:Q:857:HIS:CE1	8:Q:897:GLU:HG3	2.44	0.53
9:R:202:PHE:HB2	9:R:214:SER:HB2	1.89	0.53
9:R:960:LEU:HD23	9:R:963:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:969:GLU:HA	9:R:972:LEU:HD12	1.90	0.53
10:S:760:GLU:OE2	10:S:841:LYS:HE2	2.08	0.53
10:S:972:LYS:O	10:S:976:ILE:HG12	2.08	0.53
12:U:70:ASP:OD1	12:U:71:ILE:N	2.40	0.53
1:A:267:LEU:HB2	1:A:282:CYS:SG	2.48	0.53
2:B:360:CYS:SG	2:B:368:TYR:HB2	2.49	0.53
3:C:86:TRP:HE1	3:C:105:LYS:HZ3	1.57	0.53
4:D:1417:GLU:O	4:D:1420:GLN:NE2	2.42	0.53
6:F:600:VAL:CG2	6:F:623:SER:HG	2.15	0.53
6:F:729:LYS:HB2	6:F:745:TYR:CD2	2.44	0.53
8:H:334:ASP:O	8:H:338:LEU:HG	2.09	0.53
9:I:903:ALA:HA	9:I:906:HIS:CG	2.44	0.53
1:J:99:VAL:HG23	1:J:103:ARG:HH22	1.74	0.53
1:J:449:LEU:HB3	1:J:453:ARG:NH1	2.22	0.53
1:J:500:ILE:O	1:J:503:ARG:HB2	2.09	0.53
1:J:603:GLU:CD	4:M:1125:LEU:HD21	2.29	0.53
3:L:198:GLN:HB3	3:L:200:TYR:HE1	1.74	0.53
5:N:182:MET:SD	5:N:190:ILE:HG23	2.48	0.53
5:N:232:TRP:CD1	5:N:249:ALA:HA	2.40	0.53
6:O:238:THR:HA	6:O:297:LEU:HD21	1.90	0.53
6:O:259:TRP:HZ2	7:P:274:ASN:H	1.56	0.53
6:O:688:GLU:O	6:O:692:ARG:HG3	2.08	0.53
6:O:689:ALA:O	6:O:692:ARG:N	2.41	0.53
6:O:808:VAL:HG13	6:O:828:LEU:HD11	1.89	0.53
7:P:142:VAL:C	7:P:143:LYS:HD3	2.28	0.53
7:P:220:ALA:O	7:P:222:SER:N	2.42	0.53
8:Q:578:GLU:HA	8:Q:615:LEU:HD13	1.90	0.53
8:Q:869:ALA:HB1	8:Q:895:LEU:CD1	2.38	0.53
9:R:456:ARG:HG2	9:R:457:LYS:HG3	1.90	0.53
10:S:974:THR:HA	10:S:977:ARG:NE	2.24	0.53
12:U:50:ARG:O	12:U:50:ARG:HD3	2.07	0.53
12:U:585:LEU:HD23	12:U:599:ILE:HD11	1.91	0.53
2:B:270:ASN:ND2	2:B:356:GLN:HE22	2.06	0.53
3:C:265:LYS:HD2	3:C:265:LYS:N	2.23	0.53
4:D:692:GLN:HA	4:D:834:GLN:HE22	1.72	0.53
4:D:1107:LEU:HB3	4:D:1120:GLN:HE21	1.74	0.53
6:F:278:ARG:HH12	6:F:295:LYS:H	1.55	0.53
8:H:121:SER:HB3	8:H:179:LEU:HD21	1.91	0.53
9:I:1077:ILE:HG21	9:R:581:LEU:HD12	1.89	0.53
1:J:99:VAL:HG12	1:J:152:ILE:HG22	1.91	0.53
4:M:1084:TYR:O	4:M:1088:ILE:HD12	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1335:GLU:HA	4:M:1338:ARG:NE	2.24	0.53
5:N:311:CYS:SG	5:N:322:TRP:HB2	2.48	0.53
6:O:255:TRP:CD2	7:P:270:SER:HB3	2.44	0.53
6:O:486:LEU:HA	6:O:489:TRP:HD1	1.74	0.53
9:R:683:GLU:OE1	9:R:753:SER:OG	2.26	0.53
10:S:286:GLN:HG2	10:S:487:ARG:HD2	1.91	0.53
11:T:57:THR:HG22	11:T:64:ARG:HA	1.91	0.53
11:T:738:TRP:CD1	11:T:755:ALA:HB1	2.43	0.53
12:U:757:LEU:HD21	12:U:790:ALA:HB2	1.91	0.53
2:B:118:GLN:HA	2:B:128:ARG:HH12	1.73	0.53
3:C:149:ASN:CB	3:C:152:GLN:HE22	2.22	0.53
3:C:207:ARG:NH2	4:D:1253:GLN:OE1	2.42	0.53
3:C:245:VAL:O	3:C:273:GLN:HA	2.08	0.53
4:D:427:PHE:HA	11:T:113:ILE:HD13	1.90	0.53
5:E:78:ILE:HG12	5:E:97:THR:HG22	1.91	0.53
6:F:607:LEU:CD1	6:F:615:LEU:HD22	2.29	0.53
7:G:110:CYS:C	7:G:158:TRP:HE1	2.10	0.53
7:G:216:ASP:HB3	7:G:233:CYS:SG	2.48	0.53
8:H:146:MET:HB3	8:H:150:PHE:HE1	1.74	0.53
8:H:201:LEU:HD12	8:H:205:GLN:HE22	1.74	0.53
8:H:816:ASP:HB3	8:H:823:VAL:HG11	1.91	0.53
8:H:846:PRO:HG3	8:H:883:PHE:CE1	2.44	0.53
9:I:1067:TRP:CZ3	9:I:1127:SER:HB2	2.36	0.53
2:K:15:SER:OG	2:K:36:GLY:O	2.20	0.53
4:M:1078:ASN:O	4:M:1082:LEU:HG	2.09	0.53
4:M:1115:ARG:HB3	4:M:1119:LYS:NZ	2.24	0.53
6:O:249:ARG:HA	7:P:265:TRP:CZ3	2.44	0.53
6:O:363:SER:HA	6:O:369:VAL:HG11	1.91	0.53
8:Q:874:SER:O	8:Q:879:LEU:N	2.42	0.53
9:R:809:LYS:HB3	9:R:813:GLU:HB2	1.91	0.53
9:R:952:LYS:HE3	9:R:986:LEU:HD13	1.90	0.53
10:S:1016:ASN:HD22	10:S:1079:ARG:NH2	2.07	0.53
10:S:1422:GLY:N	10:S:1494:LEU:HD23	2.24	0.53
1:A:166:GLU:O	1:A:169:ARG:HG3	2.08	0.53
2:B:47:VAL:HG12	2:B:69:LEU:HD12	1.91	0.53
4:D:1226:THR:O	4:D:1229:SER:OG	2.22	0.53
4:D:1415:MET:HE2	4:D:1419:PHE:HE2	1.74	0.53
9:I:548:ASN:ND2	9:I:625:LEU:HD13	2.24	0.53
9:I:1116:ASN:HA	9:I:1119:LYS:HG3	1.91	0.53
1:J:634:ARG:CZ	4:M:1133:LEU:HG	2.39	0.53
3:L:242:THR:OG1	3:L:243:LYS:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:82:CYS:SG	4:M:107:SER:HB3	2.48	0.53
4:M:456:PRO:HG2	4:M:528:ILE:HB	1.90	0.53
4:M:481:ILE:CG2	4:M:482:LEU:HD12	2.38	0.53
4:M:1303:THR:O	4:M:1307:HIS:ND1	2.37	0.53
5:N:220:ASN:HB2	5:N:264:GLU:OE1	2.09	0.53
6:O:308:LYS:HE3	6:O:667:ASN:OD1	2.08	0.53
6:O:503:LEU:HD22	6:O:523:ILE:HG21	1.89	0.53
7:P:243:THR:OG1	7:P:253:THR:OG1	2.23	0.53
8:Q:469:LEU:HB2	8:Q:474:LEU:HD21	1.90	0.53
10:S:912:GLU:HA	10:S:915:LYS:HG2	1.91	0.53
10:S:1215:GLU:HG2	10:S:1225:CYS:H	1.74	0.53
10:S:1342:ALA:HB2	10:S:1426:TYR:CE2	2.44	0.53
11:T:829:LEU:HD22	11:T:863:VAL:HB	1.91	0.53
12:U:747:SER:O	12:U:751:LEU:HG	2.09	0.53
12:U:811:ARG:HA	12:U:814:GLN:HG3	1.90	0.53
1:A:3:GLU:OE2	1:A:360:LYS:NZ	2.41	0.53
1:A:69:ARG:NH1	2:B:245:ARG:H	2.06	0.53
4:D:917:TYR:HB3	4:D:922:GLU:HG2	1.90	0.53
5:E:93:LEU:O	5:E:108:THR:HA	2.08	0.53
6:F:265:GLY:CA	7:G:304:LYS:HA	2.39	0.53
6:F:339:PRO:HB2	6:F:724:TRP:CZ2	2.43	0.53
7:G:79:TYR:HA	7:G:105:SER:OG	2.09	0.53
8:H:264:TRP:O	8:H:267:SER:OG	2.25	0.53
8:H:469:LEU:HD13	8:H:473:TYR:CE2	2.43	0.53
8:H:538:LEU:HD22	8:H:563:VAL:HG13	1.91	0.53
9:I:982:GLN:O	9:I:986:LEU:HG	2.09	0.53
9:I:1119:LYS:HG2	9:I:1124:PHE:HE2	1.73	0.53
1:J:362:PHE:HB3	1:J:372:VAL:HG12	1.91	0.53
3:L:231:LEU:HD12	3:L:233:ARG:NH1	2.22	0.53
4:M:216:ALA:HB1	4:M:288:LEU:HG	1.91	0.53
6:O:690:ALA:HA	6:O:693:GLU:OE2	2.09	0.53
7:P:88:GLU:HB2	7:P:93:TRP:NE1	2.23	0.53
7:P:278:VAL:O	7:P:285:VAL:HA	2.09	0.53
8:Q:753:GLU:O	8:Q:756:LYS:HG3	2.08	0.53
8:Q:841:ARG:HD2	8:Q:878:LYS:O	2.09	0.53
9:R:638:VAL:HG21	9:R:724:VAL:HG21	1.90	0.53
10:S:1228:LYS:HA	10:S:1231:HIS:ND1	2.23	0.53
12:U:586:GLY:HA3	12:U:595:LYS:O	2.09	0.53
1:A:166:GLU:HG2	1:A:169:ARG:HE	1.73	0.53
2:B:119:ALA:H	2:B:128:ARG:HH12	1.57	0.53
3:C:72:GLN:HG2	3:C:87:GLU:HG3	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:170:TRP:HA	3:C:182:ILE:HD13	1.91	0.53
3:C:254:ARG:HE	3:C:255:LYS:H	1.56	0.53
6:F:351:ALA:HB3	6:F:640:VAL:HG22	1.90	0.53
8:H:357:CYS:HA	8:H:362:GLN:NE2	2.23	0.53
8:H:362:GLN:OE1	8:H:362:GLN:N	2.40	0.53
8:H:469:LEU:HB2	8:H:474:LEU:HD21	1.90	0.53
8:H:697:GLU:OE1	8:H:697:GLU:N	2.34	0.53
8:H:781:HIS:O	8:H:785:LYS:HG2	2.09	0.53
9:I:100:ALA:HB3	9:I:112:ALA:HB3	1.91	0.53
9:I:100:ALA:HB2	9:I:145:TRP:HB2	1.91	0.53
9:I:992:LEU:O	9:I:994:LYS:HD2	2.09	0.53
9:I:1107:GLU:O	9:I:1111:GLN:HG2	2.07	0.53
9:I:1109:LEU:HD13	9:I:1128:LEU:HD11	1.91	0.53
9:I:1125:GLU:O	9:I:1129:LYS:HG3	2.08	0.53
1:J:38:LEU:HD21	1:J:43:GLY:N	2.24	0.53
1:J:468:CYS:HA	1:J:487:TRP:HE3	1.72	0.53
3:L:228:ALA:H	3:L:236:HIS:CE1	2.26	0.53
4:M:179:SER:HA	4:M:703:THR:HG22	1.89	0.53
4:M:532:CYS:HB3	9:R:77:LEU:HD23	1.91	0.53
4:M:1111:VAL:HG12	4:M:1113:THR:H	1.74	0.53
7:P:66:ALA:HB3	7:P:73:ILE:HB	1.89	0.53
8:Q:209:VAL:HA	8:Q:212:ARG:HD3	1.91	0.53
9:R:888:TRP:O	9:R:891:GLU:HG2	2.09	0.53
9:R:1110:LEU:HD12	9:R:1125:GLU:HB3	1.91	0.53
10:S:112:LEU:HG	10:S:127:ARG:HD3	1.90	0.53
10:S:810:SER:OG	10:S:813:LEU:HG	2.09	0.53
10:S:1406:ILE:O	10:S:1409:THR:OG1	2.18	0.53
12:U:64:LEU:HD13	12:U:74:ILE:HD12	1.90	0.53
2:B:193:LYS:HB3	2:B:195:TRP:CZ2	2.44	0.52
2:B:255:ASN:HD21	2:B:331:THR:HG22	1.72	0.52
3:C:91:GLY:O	3:C:92:GLU:HG3	2.09	0.52
3:C:247:ILE:HG22	3:C:271:VAL:HG23	1.90	0.52
5:E:54:GLU:OE2	5:E:305:HIS:NE2	2.42	0.52
6:F:494:VAL:HG12	6:F:498:ILE:HG12	1.89	0.52
8:H:436:TRP:HB2	8:H:498:GLU:OE1	2.10	0.52
8:H:450:SER:HG	8:H:478:TRP:HE1	1.57	0.52
9:I:913:LEU:HA	9:I:916:HIS:ND1	2.23	0.52
1:J:74:GLU:OE1	1:J:74:GLU:HA	2.09	0.52
1:J:79:PHE:CD1	1:J:374:HIS:HE1	2.27	0.52
2:K:13:LYS:H	2:K:40:ASN:HD21	1.57	0.52
2:K:16:ARG:NE	2:K:36:GLY:HA3	2.19	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:498:LYS:HZ2	5:N:207:VAL:HG11	1.74	0.52
4:M:1347:GLU:H	4:M:1347:GLU:CD	2.12	0.52
4:M:1390:HIS:O	4:M:1393:LEU:HB3	2.09	0.52
6:O:424:ARG:O	6:O:427:GLU:HG2	2.09	0.52
7:P:67:HIS:HB3	7:P:70:TYR:CE2	2.44	0.52
8:Q:242:LYS:HD3	8:Q:376:HIS:CD2	2.43	0.52
8:Q:506:ILE:O	8:Q:510:VAL:HG23	2.09	0.52
8:Q:808:ILE:HG21	8:Q:852:LEU:HD13	1.91	0.52
8:Q:817:GLY:O	8:Q:879:LEU:CG	2.44	0.52
9:R:104:HIS:HB2	9:R:110:TRP:CH2	2.44	0.52
9:R:115:ASP:OD1	9:R:115:ASP:N	2.42	0.52
10:S:1669:LEU:HD12	10:S:1748:MET:HG3	1.91	0.52
1:A:354:ASP:HA	1:A:387:ALA:HB1	1.89	0.52
1:A:598:LEU:O	1:A:602:LEU:HG	2.10	0.52
1:A:629:LYS:NZ	1:A:633:LEU:HD11	2.24	0.52
6:F:465:LEU:O	6:F:469:LEU:HG	2.08	0.52
1:J:65:SER:HB3	1:J:68:LEU:HD13	1.91	0.52
1:J:106:ARG:HH22	1:J:145:ASN:HA	1.73	0.52
2:K:18:ARG:HD3	2:K:83:PHE:HD2	1.73	0.52
4:M:472:ILE:HG13	4:M:497:LEU:HD22	1.92	0.52
7:P:85:ILE:HD13	7:P:97:TYR:CD2	2.44	0.52
7:P:154:ASN:OD1	7:P:187:CYS:N	2.42	0.52
8:Q:183:ILE:O	8:Q:187:VAL:HG23	2.09	0.52
8:Q:393:PRO:HA	8:Q:395:ARG:NH1	2.24	0.52
8:Q:810:ASN:O	8:Q:814:PHE:CB	2.50	0.52
9:R:777:ALA:HB3	9:R:782:ARG:HG3	1.90	0.52
9:R:992:LEU:HD23	9:R:1019:TYR:CE1	2.44	0.52
10:S:704:PHE:O	10:S:708:ILE:HD12	2.08	0.52
10:S:862:ASP:HA	10:S:865:ARG:HH11	1.73	0.52
12:U:323:ILE:HG22	12:U:327:MET:HE1	1.90	0.52
2:B:75:PRO:O	2:B:93:SER:OG	2.22	0.52
2:B:362:THR:HG21	2:B:364:ALA:HB3	1.91	0.52
3:C:107:THR:HG21	3:C:153:TRP:CD1	2.43	0.52
4:D:349:SER:HB2	4:D:352:LEU:HB2	1.92	0.52
4:D:372:PHE:HB3	4:D:384:LEU:HB3	1.90	0.52
4:D:1099:VAL:O	4:D:1102:GLU:HG3	2.09	0.52
5:E:191:ARG:HH12	5:E:202:LEU:H	1.57	0.52
6:F:363:SER:HA	6:F:369:VAL:HG11	1.91	0.52
6:F:486:LEU:HA	6:F:489:TRP:HD1	1.74	0.52
6:F:663:ALA:O	6:F:666:GLU:HG2	2.08	0.52
9:I:971:VAL:O	9:I:975:LYS:HG2	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:66:PRO:HA	1:J:69:ARG:NH1	2.25	0.52
4:M:479:ILE:HD11	4:M:501:VAL:HG23	1.91	0.52
4:M:539:LEU:HD11	9:R:130:LEU:HA	1.90	0.52
4:M:953:GLU:HB2	4:M:960:GLN:OE1	2.10	0.52
4:M:1140:TRP:HD1	6:O:850:ARG:HH21	1.56	0.52
6:O:787:GLU:OE1	6:O:787:GLU:N	2.34	0.52
6:O:842:ILE:HG22	6:O:843:GLN:N	2.22	0.52
8:Q:216:ALA:HA	8:Q:219:ARG:HE	1.75	0.52
9:R:211:PHE:O	9:R:222:ARG:HA	2.08	0.52
9:R:366:LYS:HG3	9:R:375:GLU:OE2	2.10	0.52
9:R:528:VAL:HG11	9:R:604:VAL:HB	1.91	0.52
12:U:57:ASN:HB3	12:U:78:LEU:HD13	1.91	0.52
1:A:243:THR:HG21	1:A:251:GLU:HB3	1.92	0.52
3:C:145:PRO:HD2	3:C:152:GLN:NE2	2.22	0.52
4:D:167:PRO:HA	4:D:171:ARG:NH2	2.24	0.52
4:D:976:GLU:HA	4:D:979:ILE:HD12	1.91	0.52
6:F:424:ARG:O	6:F:427:GLU:HG2	2.09	0.52
6:F:801:VAL:HG12	6:F:805:TYR:CE2	2.44	0.52
8:H:265:LEU:HD22	8:H:441:TRP:CD1	2.44	0.52
8:H:419:TYR:HD1	8:H:422:LEU:HD12	1.74	0.52
8:H:544:LEU:HG	8:H:548:PHE:CE2	2.44	0.52
8:H:570:ARG:HA	8:H:573:ASN:OD1	2.09	0.52
8:H:673:PRO:HA	8:H:676:ARG:NH1	2.24	0.52
8:H:686:ILE:HG13	8:H:690:PHE:CE2	2.45	0.52
1:J:45:SER:HB2	3:L:12:LYS:HA	1.92	0.52
1:J:586:LYS:O	1:J:643:ARG:NH2	2.43	0.52
2:K:16:ARG:NH1	2:K:91:THR:OG1	2.41	0.52
2:K:61:GLU:O	2:K:62:TYR:HB2	2.10	0.52
2:K:82:GLN:HB3	2:K:136:CYS:SG	2.50	0.52
4:M:581:TYR:O	4:M:614:HIS:NE2	2.42	0.52
4:M:1340:TYR:CA	4:M:1345:LEU:HB2	2.36	0.52
4:M:1401:ASN:CB	10:S:790:GLU:HG2	2.39	0.52
5:N:255:ARG:HD2	5:N:272:TYR:HA	1.91	0.52
6:O:826:GLU:OE2	6:O:827:LYS:NZ	2.29	0.52
8:Q:132:MET:HG3	8:Q:138:PRO:HB3	1.91	0.52
9:R:290:ASP:OD1	9:R:291:ASP:N	2.37	0.52
9:R:302:MET:HE3	9:R:306:LEU:HD12	1.91	0.52
9:R:1019:TYR:CE1	9:R:1034:LYS:HE2	2.44	0.52
9:R:1038:LEU:HA	9:R:1041:TYR:HD2	1.74	0.52
10:S:280:ASP:OD1	10:S:388:ARG:NH1	2.42	0.52
10:S:633:CYS:O	10:S:640:LYS:NZ	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1247:ILE:HA	10:S:1250:ARG:HD3	1.92	0.52
10:S:1806:TRP:CD1	10:S:1807:ARG:HG3	2.44	0.52
10:S:1816:HIS:CD2	10:S:1817:LEU:HD22	2.44	0.52
11:T:142:THR:OG1	11:T:318:MET:SD	2.67	0.52
11:T:879:THR:O	11:T:913:MET:HE1	2.09	0.52
4:D:1382:TRP:CH2	4:D:1384:PRO:HB3	2.45	0.52
5:E:260:SER:HB3	5:E:263:ASN:HB2	1.90	0.52
6:F:486:LEU:HD13	6:F:489:TRP:HD1	1.73	0.52
7:G:233:CYS:HB2	7:G:264:VAL:CG1	2.39	0.52
8:H:553:LEU:HD12	8:H:554:GLN:H	1.73	0.52
9:I:747:HIS:HB3	9:I:806:SER:HB3	1.92	0.52
9:I:888:TRP:HZ3	9:I:894:LYS:NZ	2.07	0.52
9:I:944:GLU:HG2	9:I:951:LYS:HA	1.91	0.52
1:J:151:PHE:O	1:J:154:SER:OG	2.20	0.52
1:J:408:LEU:HD13	1:J:417:LEU:HB2	1.90	0.52
1:J:600:ARG:HE	4:M:1125:LEU:HD13	1.74	0.52
3:L:25:ARG:O	3:L:26:ARG:NE	2.43	0.52
4:M:68:PRO:O	4:M:134:ASN:ND2	2.43	0.52
4:M:1313:LEU:HB3	4:M:1318:VAL:HB	1.90	0.52
4:M:1346:LEU:HD12	4:M:1347:GLU:N	2.24	0.52
6:O:839:VAL:HG21	6:O:860:VAL:HG11	1.90	0.52
8:Q:180:LEU:CB	8:Q:201:LEU:HD13	2.36	0.52
8:Q:265:LEU:HD22	8:Q:441:TRP:CD1	2.45	0.52
9:R:656:LEU:HB3	9:R:660:LYS:NZ	2.23	0.52
9:R:839:GLN:HB3	9:R:842:TRP:CD1	2.45	0.52
10:S:241:LEU:HB3	10:S:245:ASP:HB2	1.92	0.52
10:S:252:TYR:HD2	10:S:253:LEU:HD22	1.73	0.52
10:S:627:ILE:HA	10:S:630:LEU:HD12	1.91	0.52
10:S:1411:GLY:HA2	10:S:1417:ARG:HH22	1.74	0.52
10:S:1911:LEU:HA	10:S:2010:ARG:HD2	1.91	0.52
11:T:143:GLN:HA	11:T:150:ARG:NH2	2.24	0.52
11:T:593:LYS:HE3	11:T:661:LEU:HD21	1.91	0.52
12:U:575:VAL:C	12:U:579:ARG:HH21	2.11	0.52
12:U:791:ARG:NH2	12:U:820:ASN:OD1	2.43	0.52
1:A:13:ILE:H	3:C:325:PRO:HD2	1.74	0.52
1:A:356:HIS:NE2	1:A:389:ASN:HA	2.24	0.52
3:C:229:PRO:C	3:C:233:ARG:HH21	2.13	0.52
3:C:229:PRO:O	3:C:233:ARG:NH2	2.39	0.52
4:D:560:VAL:HG12	4:D:571:LEU:HD12	1.92	0.52
4:D:669:ARG:HB3	11:T:369:HIS:CD2	2.45	0.52
4:D:972:VAL:HG12	5:E:275:LYS:NZ	2.25	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1011:GLY:HA2	4:D:1043:ARG:NH1	2.24	0.52
4:D:1302:ASN:ND2	7:G:54:ARG:HG2	2.25	0.52
5:E:45:VAL:HG22	5:E:68:THR:HG23	1.91	0.52
7:G:107:ASN:ND2	7:G:153:CYS:O	2.37	0.52
7:G:238:ARG:NH1	12:U:278:ASN:OD1	2.42	0.52
9:I:358:ILE:HG13	9:I:387:PHE:HA	1.92	0.52
1:J:431:GLU:HA	1:J:434:LYS:HD2	1.90	0.52
4:M:473:ALA:HB1	4:M:477:LYS:HZ3	1.75	0.52
4:M:1190:GLN:NE2	4:M:1191:THR:HG23	2.24	0.52
4:M:1281:SER:OG	4:M:1285:ASP:OD2	2.26	0.52
6:O:465:LEU:O	6:O:469:LEU:HG	2.09	0.52
6:O:792:ILE:HG21	6:O:795:TRP:HB2	1.92	0.52
7:P:86:TRP:HB3	7:P:93:TRP:HE3	1.74	0.52
7:P:131:ILE:HD11	7:P:158:TRP:HH2	1.74	0.52
9:R:499:GLN:HE22	9:R:507:LYS:HE2	1.75	0.52
10:S:440:LEU:HA	10:S:513:MET:CE	2.40	0.52
10:S:1159:ASP:OD2	10:S:1161:SER:OG	2.25	0.52
10:S:1179:LYS:HA	10:S:1182:ARG:HG2	1.91	0.52
10:S:1652:SER:O	10:S:1656:GLN:N	2.31	0.52
10:S:1776:GLN:HE22	10:S:1932:ARG:HG2	1.73	0.52
1:A:501:SER:HA	1:A:504:PHE:CD2	2.45	0.52
2:B:80:ASP:OD2	2:B:134:ILE:HG22	2.10	0.52
2:B:197:LEU:HB3	2:B:198:ARG:NH2	2.20	0.52
3:C:305:TRP:CZ2	3:C:315:CYS:HB2	2.44	0.52
4:D:1415:MET:HG2	4:D:1419:PHE:CE2	2.44	0.52
4:D:1420:GLN:NE2	4:D:1421:LYS:HG2	2.25	0.52
6:F:342:HIS:HE2	6:F:344:ARG:NE	2.07	0.52
6:F:384:GLU:O	6:F:388:GLY:N	2.42	0.52
6:F:612:GLN:OE1	12:U:187:ARG:N	2.43	0.52
7:G:192:LYS:HB3	7:G:194:TRP:CZ2	2.45	0.52
8:H:166:ILE:HA	8:H:169:TYR:HD2	1.74	0.52
8:H:505:ILE:O	8:H:508:LYS:HG3	2.10	0.52
8:H:628:LYS:HA	8:H:628:LYS:HE2	1.92	0.52
9:I:718:LEU:HD13	9:I:721:MET:SD	2.49	0.52
9:I:949:CYS:O	9:I:952:LYS:HG2	2.09	0.52
1:J:26:SER:HB3	1:J:33:LEU:HB2	1.92	0.52
1:J:116:MET:CE	1:J:134:ILE:HG13	2.39	0.52
3:L:137:GLY:O	3:L:161:CYS:N	2.31	0.52
3:L:306:LYS:O	3:L:314:LYS:NZ	2.40	0.52
4:M:96:SER:H	4:M:174:ARG:HH21	1.56	0.52
5:N:179:PHE:HD1	5:N:195:LEU:HB2	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:N:217:CYS:HG	5:N:259:TRP:HE1	1.54	0.52
6:O:243:MET:SD	6:O:243:MET:N	2.82	0.52
6:O:384:GLU:O	6:O:388:GLY:N	2.42	0.52
7:P:177:ASN:O	7:P:178:TYR:HD1	1.92	0.52
7:P:236:ASP:OD2	7:P:238:ARG:NH2	2.42	0.52
8:Q:216:ALA:O	8:Q:219:ARG:HG2	2.10	0.52
8:Q:528:ASN:HD22	8:Q:532:LEU:HD13	1.75	0.52
8:Q:562:GLU:O	8:Q:565:LYS:HG2	2.10	0.52
9:R:342:LEU:HB2	9:R:365:VAL:HG23	1.92	0.52
10:S:1203:ASP:O	10:S:1207:ILE:HD12	2.10	0.52
10:S:1469:PHE:HB3	10:S:1511:TRP:HZ2	1.74	0.52
12:U:44:ARG:HE	12:U:122:PHE:HB3	1.75	0.52
1:A:502:ASP:HA	1:A:505:LEU:HD12	1.92	0.52
2:B:5:PHE:CE2	2:B:7:ALA:HB2	2.44	0.52
2:B:19:TRP:HB3	2:B:30:PRO:HG2	1.91	0.52
3:C:318:VAL:HG12	3:C:320:LYS:HZ2	1.74	0.52
6:F:594:ILE:HG13	6:F:595:SER:N	2.22	0.52
9:I:65:PRO:HB3	9:I:69:GLU:HG3	1.90	0.52
9:I:406:ALA:HB2	9:I:426:THR:HG23	1.92	0.52
9:I:620:VAL:HG13	9:I:747:HIS:CE1	2.45	0.52
9:I:992:LEU:HB2	9:I:997:LEU:HD11	1.91	0.52
1:J:319:PRO:HA	1:J:322:LEU:HD12	1.91	0.52
3:L:169:SER:O	3:L:182:ILE:HD12	2.09	0.52
5:N:35:LEU:H	5:N:306:ARG:NH2	2.06	0.52
8:Q:454:GLN:O	8:Q:457:ARG:HG3	2.10	0.52
8:Q:874:SER:O	8:Q:879:LEU:CA	2.58	0.52
10:S:366:PHE:CE2	10:S:435:ASP:HB3	2.45	0.52
10:S:642:GLU:O	10:S:646:THR:HG23	2.10	0.52
10:S:647:LEU:HA	10:S:650:PHE:CD2	2.45	0.52
10:S:662:GLN:O	10:S:665:GLU:HG2	2.10	0.52
10:S:1690:GLU:OE1	10:S:1691:LEU:HG	2.10	0.52
10:S:1744:LYS:HB3	10:S:1748:MET:HE1	1.92	0.52
12:U:650:VAL:HG11	12:U:664:LEU:HD12	1.90	0.52
3:C:172:PRO:HD2	3:C:236:HIS:HE2	1.74	0.52
4:D:145:CYS:HB2	4:D:152:ILE:HB	1.91	0.52
5:E:131:VAL:HG22	5:E:171:VAL:HG13	1.92	0.52
6:F:252:ARG:HH21	7:G:268:SER:HB2	1.74	0.52
6:F:560:PHE:C	6:F:568:PRO:HB3	2.30	0.52
7:G:286:THR:HB	7:G:298:CYS:SG	2.50	0.52
8:H:770:GLN:NE2	8:H:776:LYS:HA	2.25	0.52
8:H:803:ASP:O	8:H:807:LYS:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:576:PHE:CD2	9:I:576:PHE:CB	2.83	0.52
9:I:623:ARG:HH11	9:I:738:ASN:ND2	2.08	0.52
1:J:26:SER:HB2	3:L:20:PHE:CE2	2.45	0.52
1:J:73:ASN:HA	1:J:76:HIS:ND1	2.25	0.52
1:J:364:ILE:HG21	3:L:333:PHE:H	1.75	0.52
3:L:86:TRP:HA	3:L:105:LYS:HA	1.92	0.52
3:L:87:GLU:HG2	3:L:104:VAL:HB	1.92	0.52
4:M:197:ASP:HB2	4:M:200:ASN:ND2	2.25	0.52
4:M:338:ALA:HA	4:M:342:HIS:CE1	2.45	0.52
4:M:1087:HIS:CB	4:M:1092:ASN:HB2	2.40	0.52
6:O:401:ASN:O	6:O:405:LYS:HG2	2.10	0.52
7:P:269:TRP:N	7:P:276:LEU:HD12	2.23	0.52
9:R:383:PHE:CE1	9:R:416:PHE:HB2	2.45	0.52
9:R:612:THR:HB	9:R:619:LEU:HG	1.92	0.52
9:R:689:LEU:HD13	9:R:692:LYS:HE3	1.91	0.52
10:S:775:PRO:HD3	10:S:856:LYS:HZ2	1.75	0.52
10:S:980:THR:O	10:S:984:ILE:HG12	2.09	0.52
10:S:1110:MET:O	10:S:1114:MET:HG2	2.10	0.52
11:T:405:TRP:CD1	11:T:411:PRO:HD2	2.45	0.52
11:T:750:PRO:HG2	11:T:756:LEU:HD21	1.92	0.52
12:U:100:GLY:O	12:U:103:LYS:HG2	2.09	0.52
12:U:382:ALA:HA	12:U:389:ARG:NE	2.24	0.52
12:U:662:GLU:HA	12:U:665:LYS:HE2	1.91	0.52
12:U:712:PHE:O	12:U:715:ILE:HG22	2.10	0.52
1:A:239:PRO:HG3	1:A:242:HIS:CE1	2.45	0.52
4:D:1128:LEU:O	4:D:1132:ARG:HG2	2.10	0.52
4:D:1238:LEU:HB3	4:D:1242:PHE:CZ	2.45	0.52
7:G:176:PRO:HG2	7:G:178:TYR:HE1	1.75	0.52
8:H:165:LEU:HG	8:H:169:TYR:CE2	2.45	0.52
1:J:283:ARG:NH1	1:J:286:LEU:HB2	2.25	0.52
1:J:558:LEU:HB3	1:J:562:MET:HE1	1.91	0.52
3:L:149:ASN:HD22	3:L:152:GLN:HB2	1.74	0.52
3:L:277:HIS:HA	3:L:303:ARG:NH2	2.25	0.52
4:M:328:VAL:HG11	4:M:361:LEU:HD12	1.91	0.52
4:M:831:HIS:ND1	4:M:835:VAL:HG23	2.24	0.52
4:M:941:ASP:O	4:M:945:LYS:HG2	2.10	0.52
7:P:110:CYS:SG	7:P:121:ALA:HB3	2.50	0.52
7:P:195:ARG:O	7:P:197:GLU:HG3	2.10	0.52
7:P:242:TRP:CE2	7:P:254:PRO:HB3	2.45	0.52
8:Q:269:ALA:O	8:Q:273:VAL:HG23	2.10	0.52
8:Q:334:ASP:O	8:Q:338:LEU:HG	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:709:ASN:HA	9:R:712:VAL:HG12	1.92	0.52
10:S:971:VAL:O	10:S:974:THR:OG1	2.20	0.52
10:S:1587:TYR:HA	10:S:1615:TYR:CE1	2.43	0.52
10:S:1795:ARG:HB3	10:S:1801:SER:HB2	1.90	0.52
12:U:33:LEU:HA	12:U:36:ILE:HD13	1.92	0.52
12:U:442:GLN:OE1	12:U:472:GLN:NE2	2.41	0.52
3:C:41:LYS:HE2	3:C:45:GLY:HA2	1.92	0.51
4:D:889:THR:HA	4:D:892:GLN:OE1	2.11	0.51
8:H:177:ILE:HG23	8:H:181:LYS:HE2	1.93	0.51
9:I:270:TRP:O	9:I:337:GLN:NE2	2.43	0.51
9:I:335:LEU:HD13	9:I:344:ILE:HG12	1.92	0.51
9:I:745:PRO:HB3	9:I:808:ASP:H	1.75	0.51
1:J:70:LYS:O	2:K:245:ARG:NH2	2.42	0.51
1:J:142:LEU:HG	1:J:167:TRP:HE1	1.75	0.51
1:J:372:VAL:HG23	1:J:400:LEU:HD13	1.92	0.51
2:K:123:VAL:HG23	2:K:149:ARG:HD3	1.92	0.51
3:L:164:SER:OG	3:L:188:ASP:OD1	2.28	0.51
4:M:547:ARG:HE	9:R:134:LYS:HE3	1.74	0.51
5:N:252:ASP:HB3	5:N:272:TYR:H	1.75	0.51
6:O:654:GLN:HE21	6:O:658:HIS:CE1	2.29	0.51
7:P:184:SER:N	7:P:194:TRP:HZ3	2.08	0.51
8:Q:357:CYS:HA	8:Q:362:GLN:CD	2.30	0.51
9:R:112:ALA:HB1	9:R:138:LEU:HD11	1.92	0.51
9:R:310:ILE:HG23	9:R:361:THR:HG21	1.91	0.51
9:R:883:ASP:HA	9:R:886:PHE:CD2	2.45	0.51
9:R:977:GLU:O	9:R:981:GLU:HG3	2.10	0.51
10:S:341:SER:HA	10:S:348:GLU:HG3	1.93	0.51
10:S:509:PRO:HA	10:S:512:LYS:HD3	1.92	0.51
10:S:598:LEU:HD13	10:S:642:GLU:HB3	1.92	0.51
10:S:1107:MET:CE	10:S:1277:LYS:HD2	2.40	0.51
10:S:1189:PHE:HB3	10:S:1324:ASP:OD1	2.10	0.51
10:S:1311:ASP:O	10:S:1314:GLN:HG2	2.10	0.51
12:U:646:LEU:O	12:U:649:PRO:HD2	2.10	0.51
1:A:176:ASP:O	1:A:180:GLN:HG2	2.10	0.51
2:B:297:PHE:C	2:B:338:THR:HB	2.31	0.51
3:C:22:PHE:HB3	3:C:67:HIS:NE2	2.25	0.51
3:C:138:VAL:HG13	3:C:158:GLU:OE2	2.10	0.51
4:D:244:PRO:HG2	4:D:249:GLU:HA	1.90	0.51
4:D:909:CYS:HA	4:D:912:MET:SD	2.49	0.51
4:D:1077:HIS:CE1	4:D:1082:LEU:HB2	2.42	0.51
4:D:1336:LEU:HA	4:D:1339:LEU:HD23	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:219:ARG:NH2	5:E:261:LYS:O	2.42	0.51
6:F:251:PHE:CZ	7:G:283:ASN:HA	2.46	0.51
6:F:576:PRO:HA	6:F:579:GLU:CD	2.31	0.51
7:G:67:HIS:CG	7:G:114:HIS:HB3	2.46	0.51
7:G:125:SER:HA	7:G:153:CYS:N	2.24	0.51
8:H:609:ARG:HD2	8:H:671:PHE:HE2	1.75	0.51
8:H:729:ALA:HA	8:H:824:ARG:HG2	1.91	0.51
4:M:397:LEU:HD21	4:M:400:PHE:HD1	1.75	0.51
7:P:89:GLU:OE2	7:P:94:GLU:HB2	2.11	0.51
8:Q:221:ARG:HH22	8:Q:513:ALA:HB2	1.75	0.51
9:R:949:CYS:SG	9:R:1005:ASN:HB3	2.50	0.51
10:S:1713:GLN:O	10:S:1717:LEU:HG	2.10	0.51
11:T:766:ASP:O	11:T:769:SER:OG	2.27	0.51
11:T:881:LEU:HB3	11:T:886:SER:HB3	1.91	0.51
12:U:727:SER:O	12:U:731:ARG:HG2	2.10	0.51
2:B:114:GLN:HA	2:B:158:ARG:HE	1.76	0.51
5:E:10:THR:N	5:E:321:PHE:O	2.43	0.51
6:F:707:SER:O	6:F:710:LYS:HB2	2.10	0.51
6:F:835:LEU:O	6:F:839:VAL:HG23	2.10	0.51
6:F:858:LYS:HD3	6:F:859:ARG:HH21	1.75	0.51
8:H:393:PRO:HA	8:H:395:ARG:NH1	2.24	0.51
8:H:736:ARG:NH2	8:H:817:GLY:O	2.42	0.51
9:I:918:HIS:O	9:I:921:TRP:NE1	2.44	0.51
1:J:43:GLY:HA2	3:L:13:ASP:HA	1.92	0.51
3:L:21:ASP:OD1	3:L:25:ARG:N	2.33	0.51
3:L:202:TYR:HD2	3:L:209:TYR:CE1	2.28	0.51
4:M:573:PRO:HG2	4:M:858:ILE:HD11	1.90	0.51
5:N:83:GLU:HB2	5:N:136:GLU:HA	1.91	0.51
7:P:84:ILE:HA	7:P:95:LYS:HZ2	1.75	0.51
7:P:239:VAL:O	7:P:256:LEU:HA	2.11	0.51
8:Q:845:LEU:HB2	8:Q:846:PRO:HD3	1.92	0.51
9:R:451:PRO:HG2	9:R:463:VAL:HG23	1.93	0.51
9:R:686:PHE:HZ	9:R:750:TRP:HZ3	1.56	0.51
9:R:991:THR:HB	9:R:1034:LYS:HE3	1.91	0.51
10:S:276:LEU:HB3	10:S:388:ARG:HE	1.75	0.51
10:S:462:CYS:SG	10:S:492:SER:OG	2.58	0.51
10:S:829:THR:O	10:S:836:LYS:NZ	2.41	0.51
10:S:1456:ASP:O	10:S:1459:SER:N	2.44	0.51
12:U:171:GLY:HA2	12:U:540:PHE:HD1	1.74	0.51
1:A:211:ARG:HA	1:A:214:LEU:HB2	1.91	0.51
2:B:229:VAL:HA	2:B:242:TRP:O	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:694:GLN:HA	4:D:834:GLN:HG2	1.92	0.51
7:G:56:HIS:HB3	7:G:78:SER:OG	2.10	0.51
7:G:167:LEU:HD23	7:G:167:LEU:O	2.11	0.51
1:J:417:LEU:HB3	1:J:421:TYR:CE2	2.45	0.51
2:K:223:HIS:CD2	2:K:225:ASN:HB3	2.45	0.51
4:M:1041:CYS:HG	4:M:1079:TYR:HH	1.57	0.51
4:M:1187:VAL:HA	4:M:1190:GLN:HE21	1.76	0.51
6:O:560:PHE:C	6:O:568:PRO:HB3	2.30	0.51
6:O:795:TRP:CZ3	6:O:799:GLY:HA3	2.45	0.51
7:P:131:ILE:CG2	7:P:143:LYS:HB2	2.40	0.51
8:Q:223:GLN:HA	8:Q:226:LEU:HD12	1.91	0.51
8:Q:530:LYS:HD3	8:Q:566:THR:HB	1.91	0.51
9:R:104:HIS:CD2	9:R:106:GLY:H	2.29	0.51
9:R:956:GLY:O	9:R:959:LYS:HG3	2.11	0.51
9:R:1134:CYS:O	9:R:1137:LYS:HG3	2.11	0.51
10:S:933:ASP:HA	10:S:936:GLN:HE22	1.75	0.51
10:S:1306:GLN:HE22	10:S:1347:SER:HB3	1.75	0.51
11:T:525:LEU:HB3	11:T:529:PHE:HB2	1.92	0.51
12:U:722:PRO:HG2	12:U:789:GLN:HE22	1.76	0.51
12:U:784:SER:N	12:U:787:ARG:HH21	2.08	0.51
3:C:25:ARG:O	3:C:26:ARG:NH2	2.44	0.51
5:E:305:HIS:CE1	5:E:307:ARG:HD3	2.45	0.51
6:F:255:TRP:HZ2	7:G:275:ILE:HD11	1.74	0.51
6:F:376:TRP:CH2	6:F:630:ASP:OD2	2.63	0.51
6:F:533:ARG:O	6:F:537:ILE:HG12	2.10	0.51
7:G:110:CYS:C	7:G:120:LEU:HD12	2.31	0.51
9:I:85:LYS:HB3	9:I:118:ILE:HD13	1.91	0.51
9:I:286:LYS:HE3	9:I:371:ASN:H	1.75	0.51
9:I:508:HIS:O	9:I:527:MET:HE1	2.11	0.51
9:I:766:GLN:HE22	9:I:770:ILE:HD11	1.75	0.51
2:K:268:PRO:HD3	2:K:353:VAL:HG13	1.92	0.51
3:L:228:ALA:HA	3:L:286:TRP:HZ3	1.75	0.51
4:M:59:ARG:HD3	4:M:125:ASN:HA	1.92	0.51
4:M:481:ILE:HD11	9:R:87:MET:SD	2.50	0.51
4:M:670:ASN:ND2	4:M:673:GLN:OE1	2.44	0.51
4:M:1092:ASN:HB3	4:M:1095:LYS:HE2	1.91	0.51
6:O:252:ARG:HB2	7:P:266:HIS:ND1	2.25	0.51
6:O:471:GLN:HE22	8:Q:370:GLU:HB2	1.76	0.51
6:O:682:GLN:O	7:P:168:VAL:HG13	2.10	0.51
7:P:63:VAL:HA	7:P:75:ALA:O	2.09	0.51
7:P:67:HIS:CE1	7:P:114:HIS:HD2	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:241:ILE:HG12	7:P:296:TRP:HZ2	1.76	0.51
8:Q:577:ILE:HG22	8:Q:599:PHE:CZ	2.46	0.51
8:Q:762:PRO:HG3	8:Q:790:PHE:HA	1.92	0.51
9:R:284:ILE:HG13	9:R:302:MET:SD	2.51	0.51
9:R:745:PRO:HG2	9:R:815:ARG:HH22	1.75	0.51
9:R:880:ASN:HB3	9:R:883:ASP:HB2	1.92	0.51
10:S:333:TRP:HD1	10:S:356:MET:HE1	1.75	0.51
10:S:662:GLN:HA	10:S:665:GLU:HG2	1.92	0.51
10:S:666:TYR:HE1	10:S:725:ARG:HH22	1.58	0.51
10:S:702:ARG:HD3	10:S:758:VAL:HG22	1.92	0.51
11:T:493:PHE:CD2	11:T:522:ALA:HB2	2.46	0.51
11:T:655:GLN:O	11:T:658:THR:OG1	2.24	0.51
1:A:51:CYS:HB2	3:C:7:ILE:HG22	1.92	0.51
1:A:446:LYS:HE2	1:A:447:LYS:NZ	2.24	0.51
2:B:226:GLN:NE2	2:B:229:VAL:HB	2.16	0.51
3:C:152:GLN:HG2	3:C:152:GLN:O	2.10	0.51
3:C:211:LYS:HE2	3:C:214:THR:HG23	1.91	0.51
4:D:917:TYR:HB2	4:D:926:ALA:HB2	1.93	0.51
6:F:375:GLN:O	6:F:378:LEU:HB3	2.11	0.51
7:G:35:ARG:HB3	7:G:54:ARG:NH1	2.20	0.51
7:G:195:ARG:NH1	7:G:202:LYS:HB2	2.26	0.51
8:H:607:ASP:O	8:H:611:ARG:HG2	2.11	0.51
9:I:197:SER:HB2	9:I:219:GLN:HG3	1.93	0.51
9:I:937:LEU:HD23	9:I:940:LEU:HD12	1.93	0.51
1:J:26:SER:O	1:J:32:LEU:HD12	2.11	0.51
2:K:23:SER:N	2:K:30:PRO:HG3	2.25	0.51
2:K:29:GLN:HE21	2:K:371:ARG:HH22	1.58	0.51
3:L:142:TYR:CZ	3:L:155:LEU:HD13	2.46	0.51
4:M:528:ILE:O	4:M:532:CYS:CB	2.59	0.51
4:M:693:SER:H	4:M:831:HIS:HD2	1.57	0.51
4:M:1074:LEU:HD22	4:M:1103:TYR:CE1	2.45	0.51
8:Q:315:ASP:OD2	8:Q:321:ARG:NH2	2.44	0.51
8:Q:419:TYR:HD1	8:Q:422:LEU:HD12	1.74	0.51
9:R:156:THR:OG1	9:R:161:ALA:O	2.25	0.51
10:S:969:ASP:OD1	10:S:970:GLN:N	2.44	0.51
10:S:1035:ASP:O	10:S:1039:LYS:HG2	2.10	0.51
10:S:1119:ILE:O	10:S:1123:ILE:HG12	2.11	0.51
10:S:1315:ASP:HB3	10:S:1319:LYS:HZ1	1.76	0.51
10:S:1421:TYR:HD1	10:S:1498:LEU:HD12	1.76	0.51
11:T:341:ARG:NE	11:T:343:GLN:HG2	2.26	0.51
11:T:560:THR:HB	11:T:564:LYS:NZ	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:162:LYS:HG3	3:C:163:LEU:H	1.75	0.51
3:C:204:GLU:OE1	3:C:204:GLU:N	2.40	0.51
4:D:891:LEU:HD23	4:D:916:CYS:SG	2.51	0.51
4:D:1278:THR:OG1	4:D:1279:LYS:HE2	2.10	0.51
5:E:191:ARG:CZ	5:E:200:ALA:HB1	2.41	0.51
6:F:255:TRP:HZ3	6:F:259:TRP:HA	1.76	0.51
6:F:614:ASP:N	12:U:187:ARG:NH2	2.57	0.51
8:H:269:ALA:O	8:H:273:VAL:HG23	2.10	0.51
8:H:357:CYS:HA	8:H:362:GLN:CD	2.30	0.51
8:H:392:ASN:O	8:H:395:ARG:HG3	2.11	0.51
8:H:609:ARG:O	8:H:613:LEU:HG	2.10	0.51
8:H:721:GLN:OE1	8:H:723:MET:HG2	2.11	0.51
9:I:98:PRO:HA	9:I:440:ASN:HD21	1.75	0.51
1:J:605:ARG:O	1:J:609:LYS:HG3	2.11	0.51
1:J:634:ARG:NH2	4:M:1132:ARG:NH1	2.59	0.51
3:L:211:LYS:HE2	3:L:214:THR:HB	1.91	0.51
4:M:313:TYR:CE2	4:M:314:LYS:HE3	2.46	0.51
4:M:528:ILE:O	4:M:532:CYS:HB2	2.10	0.51
4:M:1363:LYS:HG3	4:M:1365:HIS:CE1	2.46	0.51
6:O:576:PRO:HA	6:O:579:GLU:CD	2.31	0.51
6:O:801:VAL:HG12	6:O:805:TYR:HE2	1.76	0.51
10:S:1535:LEU:HD23	10:S:1538:LEU:HD12	1.92	0.51
11:T:240:SER:HA	11:T:266:PRO:HB3	1.92	0.51
12:U:576:ILE:HA	12:U:579:ARG:NH2	2.24	0.51
12:U:721:VAL:N	12:U:731:ARG:HH21	2.09	0.51
1:A:115:GLU:O	1:A:118:THR:OG1	2.18	0.51
1:A:207:MET:HA	1:A:210:ALA:HB3	1.92	0.51
4:D:333:ASP:O	4:D:337:THR:OG1	2.25	0.51
5:E:174:HIS:NE2	5:E:176:GLU:HB2	2.25	0.51
6:F:324:PRO:HG2	6:F:632:ARG:HD2	1.93	0.51
6:F:379:THR:HB	6:F:633:LEU:CD2	2.40	0.51
6:F:688:GLU:O	6:F:692:ARG:HG2	2.10	0.51
8:H:200:ILE:HA	8:H:203:LEU:HD12	1.93	0.51
8:H:233:GLU:H	8:H:233:GLU:CD	2.14	0.51
8:H:434:GLU:O	8:H:494:ARG:CG	2.59	0.51
8:H:853:HIS:CE1	8:H:898:SER:HB3	2.45	0.51
4:M:87:CYS:HB3	4:M:554:HIS:CD2	2.45	0.51
4:M:525:GLN:HA	4:M:528:ILE:HG22	1.93	0.51
4:M:794:LEU:HD13	4:M:807:VAL:HG22	1.93	0.51
5:N:190:ILE:HB	5:N:204:LEU:HB2	1.93	0.51
6:O:371:ALA:HA	6:O:374:LYS:HD2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:435:GLU:HB2	6:O:436:ARG:HH11	1.76	0.51
6:O:693:GLU:HB2	6:O:697:ARG:NH1	2.26	0.51
7:P:115:ASP:HB2	7:P:178:TYR:CZ	2.46	0.51
7:P:151:ILE:HD13	7:P:188:ASP:HA	1.93	0.51
7:P:257:LEU:HG	7:P:296:TRP:CG	2.46	0.51
7:P:289:LYS:NZ	7:P:291:SER:HA	2.26	0.51
8:Q:628:LYS:NZ	8:Q:675:GLN:HE21	2.09	0.51
9:R:770:ILE:HD12	9:R:789:LEU:HD13	1.92	0.51
10:S:211:LYS:HZ2	10:S:830:TYR:H	1.59	0.51
10:S:311:HIS:HA	10:S:333:TRP:HE1	1.74	0.51
10:S:1112:TRP:O	10:S:1116:THR:HG23	2.10	0.51
10:S:1261:LEU:O	10:S:1265:VAL:HG23	2.11	0.51
1:A:174:GLU:O	1:A:178:ILE:HD12	2.11	0.51
2:B:372:ARG:HG3	2:B:374:PHE:H	1.75	0.51
3:C:88:GLU:HB2	3:C:103:TRP:CZ3	2.46	0.51
4:D:1407:ILE:O	4:D:1411:LEU:HD13	2.11	0.51
6:F:576:PRO:HA	6:F:579:GLU:OE2	2.11	0.51
8:H:421:THR:N	8:H:429:LEU:HD21	2.26	0.51
8:H:784:LYS:NZ	2:K:56:THR:O	2.32	0.51
4:M:1010:MET:HG2	4:M:1012:HIS:ND1	2.26	0.51
4:M:1065:ILE:HD11	4:M:1082:LEU:HB2	1.92	0.51
4:M:1239:THR:O	4:M:1242:PHE:N	2.44	0.51
6:O:495:ASP:OD2	6:O:521:ARG:NH2	2.44	0.51
6:O:693:GLU:HB2	6:O:697:ARG:HH12	1.76	0.51
8:Q:291:ASN:OD1	8:Q:329:LEU:HB3	2.11	0.51
8:Q:294:HIS:CE1	12:U:46:LYS:HB3	2.46	0.51
8:Q:345:ILE:C	8:Q:348:GLY:H	2.14	0.51
9:R:360:TYR:HE2	9:R:395:CYS:HB3	1.76	0.51
9:R:853:PHE:HD1	9:R:881:PHE:CD1	2.27	0.51
10:S:893:VAL:HA	10:S:896:ILE:HD12	1.92	0.51
10:S:926:ILE:HA	10:S:929:LYS:HD3	1.92	0.51
10:S:1415:ARG:NH2	10:S:1416:VAL:HG23	2.25	0.51
11:T:164:HIS:HA	11:T:217:ALA:HB3	1.93	0.51
1:A:1:MET:O	1:A:399:PHE:HB3	2.11	0.51
1:A:76:HIS:HA	1:A:421:TYR:OH	2.11	0.51
2:B:18:ARG:NH1	2:B:19:TRP:HB2	2.25	0.51
2:B:179:ARG:HG2	2:B:180:THR:H	1.74	0.51
2:B:191:GLN:HG3	2:B:193:LYS:HG3	1.92	0.51
3:C:277:HIS:HA	3:C:303:ARG:NE	2.26	0.51
3:C:308:ASN:HD21	3:C:310:MET:HB2	1.75	0.51
3:C:318:VAL:HG12	3:C:320:LYS:NZ	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1141:ILE:HG12	4:D:1177:LEU:HB2	1.92	0.51
5:E:272:TYR:CD1	5:E:273:PRO:HD2	2.46	0.51
6:F:336:LYS:HA	6:F:341:PRO:HA	1.93	0.51
6:F:535:LEU:HD12	6:F:556:TYR:HD2	1.76	0.51
7:G:164:PRO:HG2	7:G:224:GLY:N	2.26	0.51
7:G:213:TRP:O	7:G:235:GLN:HG2	2.10	0.51
8:H:692:ALA:O	8:H:694:LYS:NZ	2.38	0.51
9:I:648:VAL:HG13	9:I:649:LEU:HD22	1.92	0.51
1:J:25:PHE:CD1	1:J:32:LEU:HD11	2.46	0.51
1:J:107:SER:O	1:J:110:ARG:HD3	2.11	0.51
1:J:473:MET:HE1	3:L:69:GLU:HG3	1.92	0.51
4:M:168:HIS:HB3	4:M:171:ARG:HG2	1.93	0.51
4:M:324:MET:HE3	4:M:370:CYS:HB2	1.92	0.51
4:M:1195:LEU:HA	4:M:1198:HIS:HE1	1.70	0.51
5:N:43:TYR:HE1	5:N:70:HIS:ND1	2.08	0.51
7:P:35:ARG:NH2	7:P:60:VAL:HG23	2.26	0.51
8:Q:295:THR:HA	8:Q:298:GLN:HG3	1.93	0.51
8:Q:337:LEU:HD23	8:Q:340:TYR:CD2	2.46	0.51
8:Q:629:THR:HA	8:Q:632:GLU:CD	2.31	0.51
9:R:993:PRO:HD2	9:R:996:LEU:HD23	1.93	0.51
10:S:836:LYS:O	10:S:839:LEU:HB3	2.11	0.51
10:S:1078:MET:HG3	10:S:1082:ARG:NH2	2.26	0.51
10:S:1331:PRO:HA	10:S:1415:ARG:HH12	1.76	0.51
10:S:1590:ARG:HH11	10:S:1615:TYR:HD2	1.59	0.51
1:A:231:LEU:O	1:A:235:LEU:HG	2.10	0.50
1:A:470:THR:O	1:A:473:MET:HG3	2.11	0.50
1:A:486:SER:OG	1:A:487:TRP:HD1	1.93	0.50
2:B:222:ARG:HA	2:B:230:VAL:HG12	1.92	0.50
3:C:106:ARG:HB3	3:C:151:SER:HA	1.94	0.50
4:D:670:ASN:H	11:T:362:GLY:HA3	1.74	0.50
4:D:1180:ARG:NH2	4:D:1233:THR:HG23	2.25	0.50
4:D:1385:TYR:HA	4:D:1388:ILE:HD12	1.92	0.50
5:E:4:ASP:H	5:E:293:ILE:CG1	2.22	0.50
5:E:174:HIS:HE2	5:E:221:THR:HG22	1.76	0.50
6:F:358:TRP:CZ2	6:F:362:PHE:HB2	2.47	0.50
6:F:371:ALA:HA	6:F:374:LYS:HD2	1.92	0.50
6:F:401:ASN:O	6:F:405:LYS:HG2	2.11	0.50
7:G:33:SER:HB2	7:G:59:PRO:HB3	1.93	0.50
8:H:315:ASP:OD2	8:H:321:ARG:NH2	2.44	0.50
8:H:345:ILE:C	8:H:348:GLY:H	2.14	0.50
8:H:427:LYS:HA	8:H:430:LEU:HG	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:777:VAL:O	8:H:780:GLU:HB2	2.11	0.50
1:J:490:ARG:HG3	2:K:26:SER:N	2.26	0.50
4:M:210:ARG:NH1	4:M:211:ALA:O	2.42	0.50
6:O:265:GLY:HA3	7:P:303:ASN:O	2.11	0.50
6:O:504:ARG:NH2	6:O:527:SER:OG	2.44	0.50
8:Q:593:ILE:HG23	8:Q:626:ILE:HD13	1.92	0.50
9:R:697:LEU:HD22	9:R:707:TRP:CD1	2.46	0.50
9:R:993:PRO:HD3	9:R:1019:TYR:HE1	1.75	0.50
10:S:565:HIS:CE1	10:S:584:ARG:HB3	2.46	0.50
10:S:698:TYR:O	10:S:702:ARG:NH1	2.44	0.50
10:S:1336:ALA:O	10:S:1340:LEU:HG	2.11	0.50
10:S:1781:PHE:HA	10:S:1809:PRO:O	2.10	0.50
12:U:376:TYR:CD1	12:U:380:VAL:HB	2.43	0.50
12:U:651:VAL:O	12:U:661:ARG:NH2	2.45	0.50
12:U:791:ARG:O	12:U:795:THR:HG23	2.11	0.50
12:U:796:PHE:O	12:U:800:ILE:HG23	2.11	0.50
1:A:264:GLU:HB3	1:A:268:GLN:HE22	1.77	0.50
4:D:1347:GLU:O	4:D:1351:GLU:OE1	2.28	0.50
5:E:237:MET:O	5:E:239:ARG:NH1	2.44	0.50
5:E:258:ARG:HH21	5:E:304:TRP:H	1.59	0.50
5:E:305:HIS:HE1	5:E:307:ARG:HD3	1.76	0.50
6:F:796:GLU:HA	6:F:800:LYS:HZ2	1.76	0.50
7:G:103:ASP:OD1	7:G:104:SER:N	2.44	0.50
8:H:211:TRP:NE1	8:H:540:PHE:HE1	2.10	0.50
8:H:370:GLU:HA	8:H:373:LYS:NZ	2.26	0.50
8:H:454:GLN:O	8:H:457:ARG:HG3	2.10	0.50
8:H:772:SER:HB2	8:H:775:GLU:HG3	1.94	0.50
9:I:843:ALA:HA	5:N:1:MET:CE	2.41	0.50
9:I:913:LEU:HB3	9:I:920:SER:HB2	1.93	0.50
9:I:1076:PRO:HB3	9:I:1127:SER:HA	1.93	0.50
3:L:304:LEU:HB2	3:L:316:ILE:HG13	1.92	0.50
4:M:306:HIS:NE2	4:M:334:ILE:HG22	2.25	0.50
4:M:1279:LYS:H	10:S:1243:GLY:HA3	1.77	0.50
6:O:597:GLN:OE1	6:O:623:SER:HB2	2.12	0.50
6:O:601:CYS:O	6:O:604:LEU:HB2	2.11	0.50
7:P:185:GLY:HA2	7:P:191:VAL:HA	1.93	0.50
8:Q:144:MET:HA	8:Q:147:TYR:CD2	2.47	0.50
8:Q:421:THR:N	8:Q:429:LEU:HD21	2.26	0.50
9:R:642:HIS:ND1	9:R:717:ILE:HG13	2.26	0.50
9:R:681:GLN:HB3	9:R:684:ILE:HD12	1.92	0.50
10:S:226:GLN:NE2	10:S:270:THR:HG21	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:338:ARG:HG3	10:S:399:LEU:HD22	1.92	0.50
10:S:1498:LEU:CD2	10:S:1501:ARG:HH22	2.24	0.50
10:S:1713:GLN:O	10:S:1720:ARG:NH2	2.44	0.50
10:S:1815:ILE:HG12	10:S:1819:LYS:HE2	1.92	0.50
12:U:641:GLU:HB3	12:U:645:LYS:NZ	2.26	0.50
1:A:27:TRP:HZ3	3:C:288:ILE:H	1.53	0.50
1:A:437:MET:HE1	1:A:467:ILE:HG12	1.93	0.50
1:A:593:GLU:OE1	1:A:593:GLU:N	2.29	0.50
1:A:639:ARG:O	1:A:643:ARG:HG2	2.11	0.50
4:D:431:GLN:CG	11:T:115:LYS:HB2	2.42	0.50
4:D:1115:ARG:HA	4:D:1118:GLN:NE2	2.26	0.50
5:E:151:ILE:O	5:E:159:ILE:N	2.44	0.50
6:F:763:LEU:HB3	6:F:776:LEU:HD11	1.92	0.50
6:F:924:SER:N	11:T:986:ARG:HE	2.10	0.50
8:H:605:ASP:HB3	8:H:608:GLN:CG	2.35	0.50
8:H:877:GLN:HG3	8:H:879:LEU:HG	1.94	0.50
1:J:260:ARG:NH2	1:J:286:LEU:O	2.44	0.50
1:J:469:LYS:HG3	1:J:496:PHE:CE2	2.47	0.50
3:L:21:ASP:CG	3:L:25:ARG:H	2.11	0.50
4:M:220:TRP:CD2	4:M:290:VAL:HG21	2.45	0.50
4:M:525:GLN:O	4:M:528:ILE:HG22	2.12	0.50
6:O:261:LEU:O	6:O:306:VAL:HA	2.11	0.50
6:O:375:GLN:O	6:O:378:LEU:HB3	2.11	0.50
6:O:450:ILE:HD13	8:Q:394:TYR:HE2	1.75	0.50
6:O:479:ARG:O	6:O:483:THR:HG23	2.12	0.50
6:O:535:LEU:HD12	6:O:556:TYR:HD2	1.76	0.50
9:R:658:LEU:HA	9:R:661:ARG:HG2	1.92	0.50
10:S:447:TYR:HD2	10:S:516:GLY:O	1.93	0.50
10:S:756:TRP:HB3	10:S:838:HIS:CB	2.41	0.50
10:S:1317:HIS:CG	10:S:1401:ASN:HB3	2.46	0.50
10:S:1845:LEU:HB2	10:S:1850:ILE:HD11	1.92	0.50
1:A:235:LEU:O	1:A:238:MET:HG3	2.11	0.50
2:B:6:ALA:HB3	2:B:369:VAL:HG23	1.94	0.50
3:C:122:ALA:HB3	3:C:129:MET:H	1.76	0.50
3:C:287:ASN:ND2	3:C:291:THR:OG1	2.44	0.50
4:D:588:LEU:HD22	4:D:610:ILE:HG21	1.93	0.50
4:D:1337:LEU:HD13	4:D:1352:LEU:HD12	1.93	0.50
6:F:504:ARG:NH2	6:F:527:SER:OG	2.44	0.50
8:H:764:LYS:HD3	8:H:766:THR:N	2.19	0.50
9:I:466:ARG:HD2	9:I:466:ARG:C	2.31	0.50
9:I:570:PRO:HD2	11:T:567:THR:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:81:MET:HA	2:K:90:VAL:O	2.12	0.50
2:K:149:ARG:NH1	2:K:163:THR:OG1	2.44	0.50
3:L:216:MET:O	3:L:217:SER:OG	2.25	0.50
4:M:95:LEU:H	4:M:849:HIS:HD2	1.57	0.50
4:M:810:ARG:CZ	4:M:822:LEU:HD12	2.42	0.50
4:M:1114:LEU:O	4:M:1118:GLN:HG2	2.11	0.50
6:O:326:GLU:O	6:O:329:LEU:HB3	2.11	0.50
6:O:410:ARG:HE	6:O:549:VAL:HG22	1.74	0.50
7:P:67:HIS:HB3	7:P:70:TYR:HE2	1.76	0.50
7:P:170:GLN:OE1	7:P:170:GLN:N	2.40	0.50
7:P:258:HIS:HB3	7:P:260:PHE:CE1	2.46	0.50
8:Q:596:TYR:CD2	8:Q:626:ILE:HG13	2.47	0.50
8:Q:808:ILE:HG21	8:Q:852:LEU:HB2	1.94	0.50
9:R:172:PRO:HA	9:R:200:CYS:H	1.76	0.50
9:R:311:SER:OG	9:R:325:LYS:NZ	2.32	0.50
10:S:383:GLU:HG2	10:S:452:PHE:CG	2.47	0.50
10:S:541:ASN:OD1	10:S:548:SER:OG	2.28	0.50
10:S:912:GLU:HG3	10:S:915:LYS:HE3	1.92	0.50
10:S:1757:SER:HA	10:S:1894:TYR:HE2	1.76	0.50
10:S:1791:ARG:HD2	10:S:1813:VAL:HG22	1.91	0.50
11:T:331:LEU:HD23	11:T:414:LEU:HG	1.92	0.50
1:A:69:ARG:HG3	1:A:70:LYS:HD3	1.93	0.50
1:A:102:SER:HB3	1:A:106:ARG:HH12	1.75	0.50
1:A:283:ARG:HB3	1:A:288:ASP:HB2	1.93	0.50
4:D:870:TRP:HD1	4:D:873:ASN:H	1.60	0.50
4:D:1365:HIS:CD2	4:D:1372:ALA:H	2.30	0.50
5:E:103:LYS:HZ1	5:E:121:GLU:HA	1.77	0.50
6:F:346:ASN:N	6:F:347:PRO:CD	2.74	0.50
6:F:578:LEU:HD22	6:F:597:GLN:HG2	1.94	0.50
8:H:660:ARG:HA	8:H:663:ILE:HD12	1.93	0.50
9:I:791:ALA:HA	9:I:794:ASN:ND2	2.26	0.50
9:I:881:PHE:O	9:I:885:LEU:HG	2.11	0.50
1:J:487:TRP:CD2	1:J:490:ARG:NH2	2.72	0.50
1:J:489:ILE:O	2:K:27:LEU:HG	2.12	0.50
2:K:302:ARG:NH2	2:K:321:LEU:HB3	2.26	0.50
3:L:270:THR:HG22	3:L:273:GLN:OE1	2.12	0.50
4:M:149:ASN:HA	4:M:171:ARG:HG3	1.93	0.50
4:M:1362:GLY:O	4:M:1374:LEU:HB2	2.12	0.50
4:M:1402:GLN:NE2	4:M:1405:GLN:OE1	2.36	0.50
6:O:475:SER:HB3	8:Q:391:GLY:H	1.76	0.50
7:P:197:GLU:CD	7:P:202:LYS:HB2	2.31	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:30:LYS:HB3	10:S:32:GLN:HE22	1.77	0.50
10:S:390:HIS:NE2	10:S:459:GLU:OE1	2.42	0.50
10:S:1451:LEU:HD11	10:S:1505:VAL:HG12	1.93	0.50
1:A:10:GLU:HG2	3:C:318:VAL:HB	1.94	0.50
1:A:344:ASP:OD1	1:A:345:ASN:N	2.43	0.50
2:B:49:ALA:HB2	2:B:69:LEU:HD11	1.93	0.50
2:B:219:CYS:HB3	2:B:263:GLU:HA	1.92	0.50
3:C:145:PRO:CD	3:C:152:GLN:HE21	2.24	0.50
4:D:524:ARG:NH2	5:E:200:ALA:O	2.45	0.50
4:D:1267:LEU:HD13	4:D:1286:GLU:OE1	2.12	0.50
5:E:18:TYR:HA	5:E:317:ARG:H	1.76	0.50
6:F:572:TYR:HE1	6:F:597:GLN:O	1.95	0.50
6:F:574:LEU:HD13	6:F:578:LEU:HG	1.94	0.50
6:F:807:SER:O	6:F:810:GLU:HG3	2.11	0.50
7:G:14:ASP:OD1	7:G:15:MET:N	2.45	0.50
7:G:26:ILE:HA	7:G:42:VAL:HB	1.93	0.50
8:H:582:PHE:O	8:H:586:HIS:ND1	2.44	0.50
9:I:243:LEU:HD22	9:I:254:PHE:HD1	1.75	0.50
3:L:243:LYS:HA	3:L:281:VAL:H	1.76	0.50
4:M:1217:LEU:O	4:M:1220:GLN:NE2	2.43	0.50
4:M:1238:LEU:HB3	4:M:1242:PHE:CE2	2.46	0.50
4:M:1238:LEU:HB2	4:M:1305:TYR:CZ	2.46	0.50
7:P:163:ILE:HG21	7:P:179:ILE:H	1.76	0.50
9:R:86:VAL:HG11	9:R:454:PHE:HZ	1.77	0.50
9:R:646:LEU:HD13	9:R:649:LEU:HD12	1.92	0.50
9:R:782:ARG:HA	9:R:785:LEU:HD12	1.92	0.50
10:S:193:ILE:HB	10:S:225:GLN:NE2	2.27	0.50
10:S:609:GLU:HG3	10:S:612:ARG:NH1	2.27	0.50
10:S:635:ILE:HG13	10:S:636:PRO:HD2	1.94	0.50
10:S:740:VAL:O	10:S:744:TYR:N	2.43	0.50
11:T:575:ALA:O	11:T:578:LEU:HG	2.11	0.50
11:T:999:LYS:HA	11:T:1006:ARG:NE	2.26	0.50
12:U:683:GLU:HB3	12:U:686:ILE:HD13	1.94	0.50
1:A:242:HIS:HB2	1:A:252:PHE:CD1	2.47	0.50
1:A:500:ILE:HG12	1:A:503:ARG:HE	1.76	0.50
1:A:514:PHE:CZ	1:A:539:TYR:CD2	2.98	0.50
3:C:88:GLU:OE2	3:C:101:SER:HB2	2.11	0.50
4:D:669:ARG:HB3	11:T:369:HIS:HD2	1.76	0.50
4:D:838:HIS:HA	4:D:841:ILE:HD12	1.93	0.50
4:D:1257:GLU:O	4:D:1260:GLN:NE2	2.45	0.50
4:D:1415:MET:O	4:D:1418:TYR:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:103:LYS:HZ2	5:E:122:GLY:H	1.59	0.50
8:H:124:GLU:HA	8:H:127:THR:HG22	1.93	0.50
8:H:206:GLN:HB2	8:H:503:TYR:CD2	2.46	0.50
8:H:276:PHE:HA	8:H:279:ASN:ND2	2.25	0.50
9:I:889:TYR:HA	9:I:894:LYS:HZ3	1.76	0.50
1:J:309:ARG:HH22	1:J:325:TYR:HA	1.77	0.50
1:J:320:THR:O	1:J:323:HIS:NE2	2.45	0.50
1:J:599:MET:O	1:J:603:GLU:OE1	2.30	0.50
3:L:307:ALA:HA	3:L:312:ASN:O	2.12	0.50
4:M:78:LYS:HB2	9:R:188:TYR:CZ	2.46	0.50
6:O:266:ASP:N	7:P:303:ASN:OD1	2.25	0.50
6:O:291:PRO:HA	10:S:725:ARG:NH1	2.26	0.50
6:O:358:TRP:CZ2	6:O:362:PHE:HB2	2.46	0.50
6:O:533:ARG:O	6:O:537:ILE:HG12	2.10	0.50
6:O:576:PRO:HA	6:O:579:GLU:OE2	2.11	0.50
6:O:676:PHE:O	6:O:680:HIS:CE1	2.65	0.50
6:O:798:ALA:O	6:O:801:VAL:HB	2.12	0.50
8:Q:297:LYS:O	8:Q:301:MET:CB	2.59	0.50
8:Q:392:ASN:O	8:Q:395:ARG:HG3	2.11	0.50
8:Q:885:LYS:O	8:Q:889:ARG:HG2	2.12	0.50
9:R:82:LEU:HD12	9:R:86:VAL:HB	1.94	0.50
9:R:869:LEU:HG	9:R:881:PHE:HE2	1.77	0.50
9:R:1014:GLN:HE22	9:R:1018:LEU:HD11	1.76	0.50
10:S:624:VAL:O	10:S:628:LEU:HG	2.11	0.50
10:S:1059:LEU:O	10:S:1063:VAL:HG23	2.12	0.50
10:S:1753:GLN:OE1	10:S:1888:LEU:HA	2.12	0.50
11:T:578:LEU:HA	11:T:581:VAL:HG12	1.94	0.50
11:T:829:LEU:HD13	11:T:863:VAL:HG21	1.94	0.50
12:U:463:TYR:O	12:U:467:LEU:HG	2.12	0.50
1:A:50:ARG:HH12	3:C:37:LYS:HZ2	1.58	0.50
1:A:167:TRP:CD1	1:A:171:HIS:CE1	3.00	0.50
3:C:184:VAL:O	3:C:197:VAL:HA	2.12	0.50
3:C:237:ILE:HA	3:C:248:PHE:O	2.12	0.50
3:C:304:LEU:HB2	3:C:317:GLY:N	2.27	0.50
4:D:366:GLN:HE21	4:D:391:PHE:HE2	1.60	0.50
4:D:637:SER:O	4:D:641:VAL:HG23	2.12	0.50
4:D:1347:GLU:OE1	4:D:1347:GLU:N	2.35	0.50
5:E:303:SER:HB3	5:E:312:VAL:CG1	2.42	0.50
6:F:380:TRP:CD2	6:F:633:LEU:HD12	2.47	0.50
6:F:410:ARG:HE	6:F:549:VAL:HG22	1.74	0.50
6:F:479:ARG:O	6:F:483:THR:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:731:VAL:HG23	6:F:734:ARG:HH21	1.76	0.50
7:G:187:CYS:O	7:G:213:TRP:NE1	2.45	0.50
7:G:215:ARG:HD3	7:G:264:VAL:O	2.11	0.50
8:H:390:GLU:HG2	8:H:390:GLU:O	2.12	0.50
8:H:676:ARG:HH21	8:H:713:GLU:CD	2.14	0.50
9:I:103:ILE:HD13	9:I:452:VAL:HG12	1.92	0.50
1:J:136:ILE:O	1:J:140:MET:HG2	2.12	0.50
1:J:265:ARG:HH21	1:J:268:GLN:HG3	1.75	0.50
1:J:284:VAL:HG13	1:J:292:LEU:HD21	1.94	0.50
1:J:398:GLU:HA	1:J:401:LEU:HD12	1.93	0.50
2:K:88:ARG:HG2	2:K:102:ARG:HH11	1.77	0.50
4:M:1081:GLU:O	4:M:1084:TYR:HB3	2.11	0.50
6:O:254:GLY:O	6:O:261:LEU:HD12	2.12	0.50
6:O:466:SER:HA	6:O:469:LEU:HD12	1.94	0.50
6:O:650:SER:HB2	6:O:653:ARG:HD3	1.93	0.50
8:Q:370:GLU:HA	8:Q:373:LYS:NZ	2.27	0.50
8:Q:591:LEU:O	8:Q:595:GLN:HG2	2.12	0.50
8:Q:772:SER:HB2	8:Q:775:GLU:HG2	1.94	0.50
9:R:1030:ASN:O	9:R:1034:LYS:HG2	2.12	0.50
10:S:226:GLN:HE22	10:S:270:THR:HG21	1.77	0.50
10:S:672:THR:HG22	10:S:726:ALA:HB3	1.94	0.50
10:S:1006:TYR:HE1	10:S:1016:ASN:HA	1.76	0.50
10:S:1037:LEU:HD13	10:S:1061:TYR:HE1	1.76	0.50
10:S:1832:HIS:CE1	10:S:1882:ILE:HG23	2.47	0.50
11:T:405:TRP:CD1	11:T:425:TYR:HB2	2.47	0.50
12:U:228:VAL:O	12:U:232:THR:HG23	2.11	0.50
12:U:538:ARG:HA	12:U:541:GLU:HG3	1.94	0.50
12:U:637:ASP:OD1	12:U:638:LYS:N	2.40	0.50
1:A:260:ARG:HD2	1:A:264:GLU:OE2	2.12	0.50
1:A:480:ARG:HG3	1:A:483:SER:H	1.77	0.50
1:A:545:MET:O	1:A:550:GLN:N	2.31	0.50
4:D:1195:LEU:O	4:D:1202:THR:OG1	2.30	0.50
5:E:18:TYR:CD1	5:E:316:TYR:HA	2.42	0.50
6:F:612:GLN:HG2	12:U:186:ALA:CB	2.38	0.50
8:H:337:LEU:HD23	8:H:340:TYR:CD2	2.47	0.50
9:I:785:LEU:O	9:I:788:GLN:HG3	2.11	0.50
9:I:1135:TYR:O	9:I:1139:GLN:HG2	2.12	0.50
1:J:461:THR:O	1:J:465:ARG:HG2	2.12	0.50
2:K:219:CYS:O	2:K:232:THR:HA	2.11	0.50
4:M:480:GLN:HB3	4:M:489:VAL:HB	1.93	0.50
4:M:1025:ASP:OD2	4:M:1027:SER:OG	2.28	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:1066:GLU:OE1	4:M:1070:ARG:NH1	2.45	0.50
4:M:1120:GLN:HB3	4:M:1124:TYR:CZ	2.47	0.50
4:M:1130:CYS:HA	4:M:1133:LEU:HD12	1.94	0.50
4:M:1193:LEU:O	4:M:1197:LYS:HG3	2.12	0.50
4:M:1394:ALA:HA	4:M:1397:GLU:HG2	1.94	0.50
6:O:238:THR:N	6:O:299:GLU:OE2	2.45	0.50
6:O:591:ALA:O	6:O:594:ILE:HG12	2.12	0.50
6:O:846:SER:O	6:O:850:ARG:HG3	2.11	0.50
7:P:195:ARG:HH11	7:P:196:GLU:H	1.59	0.50
8:Q:143:THR:HA	8:Q:146:MET:CE	2.41	0.50
9:R:172:PRO:HB3	9:R:199:LEU:HA	1.93	0.50
10:S:24:VAL:HG13	10:S:28:LEU:HD12	1.94	0.50
10:S:743:ARG:O	10:S:746:THR:OG1	2.23	0.50
10:S:854:LEU:O	10:S:857:GLU:HG3	2.12	0.50
10:S:1624:GLN:O	10:S:1627:GLN:HG3	2.11	0.50
11:T:297:VAL:HG21	11:T:347:THR:HB	1.94	0.50
12:U:107:ASP:O	12:U:110:LEU:HG	2.12	0.50
12:U:193:ASN:HD21	12:U:554:PHE:HE1	1.58	0.50
12:U:240:SER:O	12:U:244:LYS:NZ	2.39	0.50
12:U:270:TYR:HA	12:U:273:ILE:HD12	1.94	0.50
12:U:278:ASN:O	12:U:281:GLN:N	2.45	0.50
12:U:336:GLN:HA	12:U:339:VAL:HG12	1.94	0.50
1:A:51:CYS:H	3:C:9:ALA:HA	1.76	0.49
1:A:242:HIS:HB2	1:A:252:PHE:HD1	1.77	0.49
1:A:444:THR:HG21	1:A:447:LYS:HZ3	1.77	0.49
1:A:591:SER:CB	1:A:594:GLN:HE21	2.25	0.49
3:C:303:ARG:HA	3:C:317:GLY:O	2.11	0.49
4:D:706:GLY:HA3	4:D:829:ARG:HH11	1.76	0.49
6:F:435:GLU:HB2	6:F:436:ARG:HH11	1.76	0.49
6:F:466:SER:HA	6:F:469:LEU:HD12	1.94	0.49
6:F:642:GLN:HA	12:U:175:ARG:NH1	2.27	0.49
7:G:198:ASP:HB3	7:G:202:LYS:HZ2	1.77	0.49
7:G:200:GLN:HG2	7:G:202:LYS:HZ3	1.77	0.49
8:H:784:LYS:HD2	2:K:55:ALA:HB1	1.94	0.49
9:I:269:LEU:HD13	9:I:335:LEU:HG	1.94	0.49
1:J:634:ARG:HH12	4:M:1132:ARG:CG	2.22	0.49
1:J:648:GLU:HA	1:J:651:LEU:HD12	1.94	0.49
2:K:5:PHE:HA	2:K:369:VAL:O	2.12	0.49
4:M:346:LEU:HD12	4:M:355:LEU:HD11	1.94	0.49
6:O:637:MET:O	6:O:641:LEU:HG	2.12	0.49
7:P:89:GLU:O	7:P:92:THR:OG1	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:391:GLY:HA3	8:Q:395:ARG:HH21	1.77	0.49
8:Q:651:LEU:HD12	12:U:654:ILE:HD11	1.94	0.49
8:Q:860:LYS:HA	8:Q:862:TYR:CZ	2.47	0.49
9:R:568:SER:O	9:R:677:ARG:NH1	2.44	0.49
9:R:771:LEU:O	9:R:775:PRO:HD3	2.11	0.49
10:S:1079:ARG:HA	10:S:1082:ARG:HE	1.76	0.49
10:S:1097:PHE:CD2	10:S:1109:GLN:HB3	2.37	0.49
11:T:543:LEU:HD22	11:T:566:TRP:HH2	1.77	0.49
11:T:659:ARG:CZ	11:T:659:ARG:HA	2.42	0.49
12:U:67:ARG:HG3	12:U:96:THR:HB	1.94	0.49
12:U:190:TYR:O	12:U:194:GLU:HG3	2.12	0.49
3:C:207:ARG:HH12	4:D:1253:GLN:HE22	1.60	0.49
3:C:308:ASN:OD1	3:C:311:ASP:N	2.45	0.49
4:D:402:PHE:HB3	4:D:409:ILE:HD13	1.93	0.49
4:D:452:ASP:OD2	4:D:525:GLN:NE2	2.45	0.49
4:D:715:CYS:HA	4:D:718:ILE:HG12	1.94	0.49
4:D:1428:ASP:HA	4:D:1431:LYS:HD2	1.94	0.49
5:E:272:TYR:CE2	5:E:275:LYS:HG2	2.46	0.49
6:F:650:SER:OG	6:F:653:ARG:NH1	2.45	0.49
7:G:160:PRO:HG2	7:G:219:TRP:CD1	2.46	0.49
7:G:215:ARG:NH1	7:G:263:VAL:HG12	2.27	0.49
8:H:144:MET:HA	8:H:147:TYR:CE2	2.47	0.49
8:H:439:THR:CG2	8:H:495:VAL:HG21	2.42	0.49
9:I:88:GLU:HB2	9:I:116:ARG:HH22	1.76	0.49
9:I:691:ASP:HA	9:I:694:GLU:OE2	2.12	0.49
3:L:80:ASP:N	3:L:80:ASP:OD1	2.43	0.49
3:L:107:THR:HB	3:L:153:TRP:CZ3	2.48	0.49
4:M:541:TYR:HB2	9:R:84:VAL:HG22	1.95	0.49
4:M:641:VAL:O	4:M:645:ILE:HG12	2.11	0.49
4:M:1261:ALA:HA	4:M:1264:TRP:CD1	2.47	0.49
5:N:282:ILE:O	5:N:291:ILE:N	2.45	0.49
6:O:387:TRP:HA	6:O:409:ARG:NH2	2.27	0.49
6:O:571:CYS:HB3	6:O:583:PHE:CE2	2.47	0.49
8:Q:427:LYS:HA	8:Q:430:LEU:HG	1.93	0.49
9:R:685:ILE:O	9:R:689:LEU:HD23	2.12	0.49
9:R:853:PHE:CD1	9:R:881:PHE:HD1	2.28	0.49
9:R:1013:PHE:CE2	9:R:1053:LEU:HD11	2.47	0.49
10:S:1317:HIS:O	10:S:1321:LEU:HB2	2.12	0.49
10:S:1500:ASP:HA	10:S:1561:ARG:HD3	1.93	0.49
12:U:224:LEU:HA	12:U:227:MET:HE1	1.94	0.49
12:U:295:ARG:O	12:U:317:TYR:OH	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:575:VAL:O	12:U:579:ARG:NH2	2.36	0.49
12:U:708:ILE:HG23	12:U:756:ILE:HD12	1.94	0.49
1:A:302:TRP:HB3	1:A:333:PHE:CD1	2.47	0.49
2:B:372:ARG:HH12	2:B:374:PHE:HD2	1.60	0.49
3:C:273:GLN:OE1	3:C:274:PHE:N	2.45	0.49
4:D:964:ARG:HB2	4:D:967:ARG:HH21	1.77	0.49
4:D:1002:ARG:O	4:D:1005:LYS:HG2	2.12	0.49
5:E:18:TYR:N	5:E:317:ARG:HD2	2.28	0.49
5:E:152:TRP:CZ2	5:E:158:GLN:NE2	2.80	0.49
5:E:218:VAL:HG23	5:E:259:TRP:HB3	1.93	0.49
6:F:387:TRP:HE3	6:F:637:MET:HE1	1.76	0.49
6:F:557:GLU:OE2	6:F:558:GLN:HG3	2.13	0.49
6:F:576:PRO:CG	6:F:624:ALA:O	2.54	0.49
6:F:911:GLY:HA2	6:F:914:GLN:NE2	2.27	0.49
8:H:297:LYS:O	8:H:301:MET:CB	2.59	0.49
8:H:839:LEU:HA	8:H:842:ARG:HE	1.76	0.49
1:J:369:TRP:HA	1:J:372:VAL:HG22	1.94	0.49
1:J:418:GLY:HA2	1:J:421:TYR:HD2	1.78	0.49
3:L:87:GLU:O	3:L:103:TRP:HA	2.11	0.49
4:M:105:TRP:HA	4:M:113:GLU:O	2.12	0.49
4:M:220:TRP:NE1	4:M:228:LEU:HD12	2.27	0.49
4:M:448:LEU:HD12	4:M:460:TYR:CD1	2.47	0.49
4:M:1079:TYR:HA	4:M:1082:LEU:HG	1.94	0.49
4:M:1106:ARG:HH21	4:M:1149:VAL:HB	1.77	0.49
6:O:645:ASN:O	6:O:648:HIS:NE2	2.44	0.49
6:O:747:LEU:HD21	6:O:788:HIS:CE1	2.47	0.49
7:P:53:LEU:HD21	7:P:86:TRP:CD2	2.48	0.49
8:Q:134:GLN:HE21	12:U:163:GLU:CB	2.11	0.49
8:Q:180:LEU:HD23	8:Q:183:ILE:HD12	1.93	0.49
8:Q:264:TRP:O	8:Q:267:SER:OG	2.25	0.49
8:Q:604:THR:HG22	8:Q:668:TRP:HH2	1.77	0.49
8:Q:642:PHE:HZ	8:Q:689:LYS:HE3	1.78	0.49
9:R:496:ARG:HD3	9:R:510:LYS:HG2	1.93	0.49
9:R:940:LEU:HA	9:R:943:MET:HG3	1.94	0.49
9:R:1070:THR:HG22	9:R:1123:TYR:HD2	1.76	0.49
10:S:692:GLU:HB3	10:S:698:TYR:HD1	1.77	0.49
10:S:702:ARG:HH11	10:S:758:VAL:HG22	1.75	0.49
10:S:1534:VAL:O	10:S:1538:LEU:HG	2.12	0.49
11:T:501:LEU:HD11	11:T:515:GLY:HA3	1.94	0.49
11:T:807:ILE:O	11:T:811:GLN:HG3	2.12	0.49
12:U:25:GLU:O	12:U:32:ASN:ND2	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:533:LEU:O	12:U:537:THR:HG23	2.12	0.49
12:U:576:ILE:O	12:U:579:ARG:NE	2.45	0.49
3:C:117:THR:OG1	3:C:133:CYS:SG	2.56	0.49
3:C:169:SER:O	3:C:227:PHE:HE2	1.95	0.49
3:C:284:VAL:HA	3:C:294:ALA:O	2.12	0.49
3:C:305:TRP:CE2	3:C:315:CYS:HB2	2.48	0.49
4:D:551:LEU:HD23	4:D:562:LEU:HA	1.94	0.49
4:D:1302:ASN:HB2	4:D:1304:LEU:HD12	1.94	0.49
5:E:227:VAL:HG13	5:E:257:PHE:HB2	1.93	0.49
6:F:278:ARG:CZ	6:F:294:ALA:HA	2.42	0.49
6:F:340:CYS:SG	6:F:721:PRO:HD2	2.53	0.49
6:F:571:CYS:HB3	6:F:583:PHE:CE2	2.47	0.49
9:I:703:ASP:H	4:M:1154:GLY:HA2	1.78	0.49
9:I:728:TYR:CZ	9:I:732:LYS:HG3	2.47	0.49
9:I:855:ILE:HD12	9:I:858:GLN:HE21	1.77	0.49
9:I:858:GLN:HB2	9:I:862:MET:HE1	1.94	0.49
1:J:370:TRP:HB3	1:J:404:TYR:CZ	2.46	0.49
2:K:18:ARG:HD3	2:K:83:PHE:CD2	2.47	0.49
3:L:85:VAL:HG11	3:L:153:TRP:CZ2	2.47	0.49
6:O:573:PRO:O	6:O:574:LEU:HD23	2.12	0.49
8:Q:814:PHE:O	8:Q:818:GLY:N	2.41	0.49
8:Q:880:TYR:CD2	8:Q:881:THR:HG22	2.48	0.49
9:R:502:HIS:HA	9:R:505:LYS:HE3	1.94	0.49
9:R:606:LEU:HD23	9:R:609:ARG:HD3	1.94	0.49
9:R:763:VAL:HG11	9:R:796:LEU:HD22	1.94	0.49
10:S:1178:ARG:O	10:S:1182:ARG:HG2	2.12	0.49
11:T:617:GLN:O	11:T:621:GLN:HG2	2.12	0.49
12:U:20:THR:O	12:U:26:LEU:HB2	2.13	0.49
1:A:412:HIS:CE1	2:B:180:THR:HG23	2.47	0.49
1:A:475:SER:HB3	1:A:483:SER:HB2	1.94	0.49
2:B:53:PHE:O	2:B:57:SER:HB3	2.13	0.49
2:B:221:ASP:HB3	2:B:266:PHE:CZ	2.48	0.49
4:D:306:HIS:CE1	4:D:337:THR:HB	2.48	0.49
4:D:479:ILE:HD11	4:D:501:VAL:HG22	1.94	0.49
4:D:669:ARG:HA	11:T:362:GLY:HA3	1.93	0.49
4:D:1248:LYS:HD2	4:D:1251:ARG:NH2	2.28	0.49
7:G:141:GLU:OE1	7:G:141:GLU:N	2.38	0.49
8:H:808:ILE:HG21	8:H:852:LEU:HB2	1.95	0.49
2:K:194:LEU:HD23	2:K:208:PHE:HE2	1.77	0.49
4:M:55:GLU:HG2	4:M:814:SER:H	1.76	0.49
4:M:444:PRO:HB3	4:M:470:PHE:CZ	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:832:PHE:HB3	4:M:836:PHE:CE2	2.48	0.49
4:M:1101:PHE:HB2	4:M:1127:CYS:SG	2.51	0.49
6:O:785:ARG:HB2	6:O:788:HIS:CG	2.47	0.49
8:Q:126:ILE:HG21	12:U:159:THR:HA	1.95	0.49
8:Q:328:ASP:HA	8:Q:331:ARG:HG2	1.95	0.49
8:Q:624:ALA:HB1	8:Q:628:LYS:NZ	2.27	0.49
9:R:279:LEU:HB2	9:R:335:LEU:HB2	1.94	0.49
10:S:886:ARG:HH21	10:S:887:SER:HB3	1.78	0.49
10:S:1309:ILE:HG21	10:S:1344:LEU:HD13	1.94	0.49
11:T:777:PHE:CE2	11:T:781:ILE:HD11	2.48	0.49
12:U:314:ILE:HD11	12:U:342:ALA:HB2	1.94	0.49
12:U:588:LEU:HD23	12:U:594:ARG:HA	1.93	0.49
1:A:144:TRP:HZ3	1:A:375:LEU:HD23	1.77	0.49
1:A:483:SER:OG	2:B:22:VAL:HB	2.12	0.49
3:C:147:VAL:HG13	4:D:1276:ILE:HD13	1.93	0.49
4:D:1018:ASP:O	4:D:1021:THR:OG1	2.27	0.49
6:F:255:TRP:CD1	7:G:270:SER:HA	2.46	0.49
6:F:723:GLN:OE1	6:F:724:TRP:NE1	2.46	0.49
7:G:290:GLU:HB2	7:G:296:TRP:CZ3	2.47	0.49
8:H:415:GLU:HA	8:H:418:ILE:HG22	1.95	0.49
9:I:117:LEU:HD23	9:I:136:LEU:HD12	1.95	0.49
1:J:267:LEU:HG	1:J:273:SER:HB3	1.95	0.49
1:J:355:ILE:O	1:J:359:ILE:HG12	2.12	0.49
1:J:542:PHE:HD1	1:J:545:MET:HE3	1.77	0.49
2:K:48:TRP:CE2	2:K:68:GLN:HB2	2.48	0.49
4:M:257:LEU:HB3	4:M:311:TRP:CD1	2.47	0.49
4:M:645:ILE:O	4:M:649:LEU:HG	2.12	0.49
4:M:1114:LEU:HB3	4:M:1115:ARG:HH12	1.76	0.49
5:N:217:CYS:HB3	5:N:220:ASN:O	2.12	0.49
6:O:517:SER:HB2	6:O:521:ARG:H	1.78	0.49
6:O:779:PHE:HA	6:O:782:GLU:HG2	1.93	0.49
7:P:82:LYS:NZ	7:P:84:ILE:HD11	2.28	0.49
8:Q:415:GLU:HA	8:Q:418:ILE:HG22	1.95	0.49
8:Q:829:GLU:HB2	8:Q:833:ARG:NH2	2.27	0.49
10:S:1667:GLY:O	10:S:1671:GLU:HG3	2.12	0.49
12:U:469:LEU:HD12	12:U:470:THR:HG23	1.94	0.49
1:A:2:GLU:OE1	1:A:396:MET:HG2	2.13	0.49
1:A:145:ASN:HB3	1:A:167:TRP:CD1	2.48	0.49
1:A:544:ARG:HH11	1:A:545:MET:HG3	1.78	0.49
4:D:124:LEU:HB2	4:D:184:GLN:HA	1.94	0.49
4:D:431:GLN:HE22	11:T:113:ILE:HD11	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1337:LEU:HD21	4:D:1387:ALA:HB1	1.95	0.49
6:F:573:PRO:O	6:F:574:LEU:HD23	2.13	0.49
7:G:12:HIS:HB2	7:G:34:ASP:OD2	2.13	0.49
8:H:147:TYR:CE1	8:H:539:ARG:HG3	2.46	0.49
8:H:311:VAL:HA	8:H:324:LEU:HD13	1.95	0.49
8:H:360:CYS:HB2	8:H:362:GLN:OE1	2.13	0.49
8:H:391:GLY:HA3	8:H:395:ARG:HH21	1.77	0.49
8:H:758:ILE:HG22	8:H:797:LEU:HD11	1.94	0.49
1:J:153:GLU:OE1	1:J:153:GLU:N	2.46	0.49
1:J:449:LEU:HB3	1:J:453:ARG:HH22	1.77	0.49
4:M:464:LEU:HG	4:M:535:TYR:HD1	1.78	0.49
4:M:1340:TYR:CG	4:M:1349:ALA:HB2	2.48	0.49
5:N:319:LEU:HG	5:N:321:PHE:CE1	2.48	0.49
6:O:499:GLN:HE21	6:O:502:ARG:CZ	2.26	0.49
6:O:674:ALA:O	6:O:678:LEU:HG	2.12	0.49
6:O:715:ILE:HG13	6:O:716:GLN:N	2.27	0.49
8:Q:261:VAL:HG21	8:Q:444:PHE:CZ	2.48	0.49
8:Q:702:VAL:HA	8:Q:705:LYS:HD3	1.94	0.49
10:S:531:LEU:HD12	10:S:534:ASN:HB2	1.95	0.49
10:S:1725:ASP:OD1	10:S:1728:ARG:NH2	2.45	0.49
10:S:1971:GLY:N	10:S:1974:LEU:HD12	2.27	0.49
11:T:822:GLN:H	11:T:822:GLN:CD	2.16	0.49
11:T:940:LEU:HB2	11:T:951:LEU:HD22	1.95	0.49
12:U:18:ALA:HA	12:U:21:GLU:HG2	1.95	0.49
12:U:192:TYR:O	12:U:196:VAL:HG23	2.12	0.49
1:A:40:GLN:HB3	3:C:298:ASP:OD1	2.13	0.49
1:A:142:LEU:HD12	1:A:143:SER:N	2.28	0.49
1:A:191:HIS:HE1	1:A:193:LYS:HE2	1.78	0.49
2:B:18:ARG:HB3	2:B:81:MET:SD	2.53	0.49
3:C:62:ARG:NH1	3:C:118:ASP:HA	2.28	0.49
4:D:906:VAL:H	4:D:939:ARG:HH22	1.61	0.49
4:D:909:CYS:O	4:D:913:LEU:HD23	2.12	0.49
6:F:316:LYS:HE2	6:F:318:LEU:HB2	1.95	0.49
6:F:734:ARG:NH1	6:F:735:ARG:HH22	2.11	0.49
7:G:181:ARG:HA	7:G:201:TRP:CZ3	2.45	0.49
7:G:236:ASP:OD2	7:G:238:ARG:NH2	2.42	0.49
8:H:328:ASP:HA	8:H:331:ARG:HG2	1.95	0.49
8:H:798:ASP:HA	8:H:801:THR:HG22	1.95	0.49
8:H:857:HIS:ND1	8:H:862:TYR:HE1	2.11	0.49
9:I:706:GLU:HA	9:I:709:ASN:HB2	1.95	0.49
9:I:729:ARG:HH21	9:I:733:ASN:HA	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:947:TYR:H	9:I:1008:PRO:HA	1.77	0.49
1:J:435:LEU:HD11	3:L:288:ILE:HD12	1.95	0.49
1:J:607:ALA:HA	1:J:610:LEU:HD12	1.94	0.49
2:K:192:LEU:HD21	2:K:232:THR:HG21	1.95	0.49
2:K:193:LYS:HG2	2:K:207:ILE:HG23	1.95	0.49
2:K:260:GLU:HG2	2:K:279:GLU:HB3	1.94	0.49
4:M:220:TRP:HE1	4:M:228:LEU:HD12	1.78	0.49
4:M:1378:SER:OG	4:M:1379:GLN:OE1	2.28	0.49
6:O:271:ARG:HH12	6:O:305:HIS:HB2	1.77	0.49
6:O:574:LEU:HD13	6:O:578:LEU:HG	1.94	0.49
8:Q:146:MET:HE1	8:Q:539:ARG:NH2	2.22	0.49
9:R:152:ILE:HG22	9:R:167:LEU:HD23	1.94	0.49
9:R:831:LEU:HD13	9:R:855:ILE:HD11	1.94	0.49
10:S:508:LEU:O	10:S:511:LEU:HB2	2.12	0.49
10:S:859:ARG:O	10:S:863:LEU:HG	2.13	0.49
12:U:444:GLN:O	12:U:449:TYR:N	2.32	0.49
12:U:606:THR:HA	12:U:609:ILE:HD13	1.95	0.49
1:A:214:LEU:HD21	1:A:231:LEU:HD23	1.95	0.49
4:D:48:GLU:OE1	4:D:441:ASN:N	2.46	0.49
4:D:98:THR:HA	4:D:101:ARG:HH21	1.78	0.49
4:D:477:LYS:HB3	4:D:541:TYR:CZ	2.48	0.49
4:D:1004:PHE:HD1	4:D:1016:ALA:O	1.96	0.49
6:F:499:GLN:HE21	6:F:502:ARG:NH1	2.11	0.49
6:F:812:LEU:O	6:F:815:ILE:HG22	2.12	0.49
8:H:718:TRP:HE1	8:H:724:ASP:HA	1.76	0.49
9:I:587:LEU:HB3	9:I:637:ILE:HG12	1.94	0.49
1:J:503:ARG:HD2	1:J:506:LYS:HZ1	1.77	0.49
1:J:565:ARG:HH12	1:J:605:ARG:HA	1.78	0.49
4:M:388:SER:HB2	4:M:427:PHE:HB2	1.94	0.49
6:O:692:ARG:O	6:O:695:LEU:HG	2.13	0.49
7:P:192:LYS:HB2	7:P:194:TRP:CH2	2.47	0.49
8:Q:311:VAL:HA	8:Q:324:LEU:HD13	1.95	0.49
9:R:764:THR:HG23	9:R:830:LEU:HD21	1.95	0.49
10:S:605:ILE:O	10:S:612:ARG:NH2	2.44	0.49
10:S:1142:ASP:C	10:S:1178:ARG:HH22	2.16	0.49
10:S:1439:THR:HB	10:S:1444:HIS:CE1	2.48	0.49
11:T:290:SER:HA	11:T:297:VAL:HG22	1.93	0.49
11:T:341:ARG:HE	11:T:343:GLN:H	1.61	0.49
12:U:237:ILE:HB	12:U:251:MET:SD	2.52	0.49
12:U:296:SER:HA	12:U:299:ASN:HD22	1.78	0.49
12:U:713:ASP:HA	12:U:716:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:448:ALA:HB3	2:B:25:SER:CB	2.43	0.49
1:A:483:SER:O	1:A:487:TRP:CD1	2.66	0.49
2:B:226:GLN:HE21	2:B:229:VAL:CB	2.17	0.49
3:C:139:VAL:O	3:C:158:GLU:HG2	2.12	0.49
3:C:196:LYS:HB2	3:C:218:VAL:HG12	1.95	0.49
4:D:672:ILE:HB	11:T:366:ASP:N	2.28	0.49
4:D:956:SER:OG	4:D:988:GLU:HB3	2.13	0.49
8:H:425:ASN:ND2	8:H:428:GLN:OE1	2.46	0.49
9:I:917:ASP:OD1	9:I:936:THR:HG23	2.13	0.49
1:J:101:VAL:HA	1:J:104:ASN:OD1	2.13	0.49
1:J:566:ILE:O	1:J:572:TRP:NE1	2.45	0.49
1:J:598:LEU:O	1:J:602:LEU:HG	2.13	0.49
2:K:37:SER:OG	2:K:40:ASN:OD1	2.31	0.49
2:K:252:SER:OG	2:K:332:LYS:O	2.22	0.49
4:M:1047:GLN:OE1	4:M:1047:GLN:N	2.35	0.49
4:M:1107:LEU:HB3	4:M:1120:GLN:NE2	2.28	0.49
4:M:1392:ARG:HH11	4:M:1395:LEU:HD12	1.76	0.49
6:O:681:ILE:HG22	6:O:683:ASP:H	1.78	0.49
6:O:785:ARG:HB2	6:O:788:HIS:ND1	2.28	0.49
7:P:89:GLU:N	7:P:92:THR:O	2.35	0.49
7:P:164:PRO:HD3	7:P:181:ARG:CZ	2.43	0.49
8:Q:390:GLU:HG2	8:Q:390:GLU:O	2.12	0.49
9:R:679:VAL:O	9:R:682:MET:HG2	2.13	0.49
9:R:944:GLU:OE2	9:R:945:THR:N	2.46	0.49
10:S:440:LEU:HA	10:S:513:MET:HE3	1.95	0.49
10:S:1027:ARG:HA	10:S:1031:HIS:ND1	2.28	0.49
10:S:1348:VAL:O	10:S:1352:LEU:HG	2.13	0.49
10:S:1456:ASP:OD2	10:S:1458:PHE:HB2	2.13	0.49
10:S:1652:SER:HA	10:S:1655:ILE:HB	1.93	0.49
12:U:414:TYR:O	12:U:418:LYS:HG2	2.13	0.49
4:D:112:LEU:HD23	4:D:130:LEU:HD21	1.95	0.48
4:D:936:GLU:OE1	11:T:831:PRO:HD3	2.13	0.48
5:E:2:LYS:HD2	5:E:290:PRO:HD3	1.95	0.48
5:E:102:LYS:HG3	5:E:126:TYR:HA	1.95	0.48
6:F:457:ALA:HB1	6:F:462:ASP:HB2	1.94	0.48
6:F:499:GLN:HE21	6:F:502:ARG:CZ	2.26	0.48
6:F:650:SER:HB3	6:F:652:HIS:NE2	2.27	0.48
7:G:39:ILE:O	7:G:49:LEU:HD12	2.12	0.48
8:H:635:ARG:HH12	8:H:689:LYS:HG2	1.78	0.48
8:H:755:PHE:CD1	8:H:758:ILE:HD11	2.48	0.48
2:K:226:GLN:HB3	2:K:228:HIS:CD2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:544:THR:OG1	9:R:133:CYS:SG	2.70	0.48
4:M:1382:TRP:CE2	7:P:59:PRO:HD3	2.48	0.48
5:N:102:LYS:HG2	5:N:126:TYR:HD1	1.78	0.48
7:P:82:LYS:HG2	7:P:84:ILE:CD1	2.43	0.48
7:P:181:ARG:HG2	7:P:195:ARG:CD	2.42	0.48
8:Q:254:LEU:HD22	8:Q:480:LEU:HD23	1.95	0.48
8:Q:660:ARG:HD2	8:Q:663:ILE:HD12	1.94	0.48
8:Q:852:LEU:HD21	8:Q:868:LEU:HD12	1.91	0.48
9:R:310:ILE:HD11	9:R:363:VAL:HG21	1.93	0.48
10:S:307:ILE:HD13	10:S:340:ILE:HD13	1.94	0.48
10:S:1157:MET:HB2	10:S:1163:SER:HB2	1.94	0.48
10:S:1258:ASN:O	10:S:1261:LEU:HB2	2.12	0.48
10:S:1474:THR:HG23	10:S:1514:TYR:CE1	2.48	0.48
12:U:21:GLU:HB2	12:U:28:HIS:CE1	2.48	0.48
12:U:267:TYR:CG	12:U:328:ARG:HG3	2.49	0.48
12:U:549:LEU:HD21	12:U:584:LEU:HD22	1.95	0.48
12:U:572:SER:O	12:U:576:ILE:HG13	2.13	0.48
2:B:5:PHE:HE2	2:B:7:ALA:HB2	1.77	0.48
2:B:224:PRO:HG3	2:B:266:PHE:HB3	1.95	0.48
3:C:138:VAL:O	3:C:140:ARG:NH1	2.45	0.48
4:D:143:HIS:CE1	4:D:218:THR:HA	2.49	0.48
4:D:334:ILE:HG12	4:D:363:THR:HG21	1.94	0.48
4:D:1122:ASN:O	4:D:1125:LEU:HB3	2.12	0.48
4:D:1142:VAL:HB	4:D:1174:ILE:HD11	1.95	0.48
6:F:642:GLN:HA	12:U:175:ARG:HH12	1.78	0.48
8:H:253:THR:O	8:H:256:ARG:N	2.46	0.48
8:H:254:LEU:HD22	8:H:480:LEU:HD23	1.95	0.48
8:H:562:GLU:O	8:H:565:LYS:HG3	2.13	0.48
8:H:628:LYS:HZ1	8:H:678:GLU:HB3	1.78	0.48
2:K:179:ARG:HH21	2:K:181:THR:HG1	1.55	0.48
2:K:346:LEU:HD12	2:K:364:ALA:HA	1.95	0.48
3:L:255:LYS:HG3	3:L:264:THR:HA	1.94	0.48
4:M:1338:ARG:HH11	4:M:1339:LEU:HD23	1.72	0.48
6:O:339:PRO:HB2	6:O:724:TRP:HZ2	1.78	0.48
6:O:457:ALA:HB1	6:O:462:ASP:HB2	1.94	0.48
6:O:796:GLU:O	6:O:801:VAL:HG23	2.13	0.48
7:P:54:ARG:HH11	7:P:55:GLY:H	1.61	0.48
7:P:238:ARG:HD2	7:P:240:TYR:CE2	2.48	0.48
8:Q:543:HIS:HB3	8:Q:547:PHE:HE2	1.79	0.48
9:R:171:THR:HB	9:R:177:ARG:HH12	1.78	0.48
9:R:413:GLU:HG2	9:R:435:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:266:LYS:HD3	10:S:378:SER:HB3	1.95	0.48
10:S:775:PRO:C	10:S:859:ARG:HH12	2.17	0.48
10:S:1121:LEU:HD22	10:S:1291:ILE:HD13	1.95	0.48
10:S:1882:ILE:HG13	10:S:1885:ARG:HH22	1.77	0.48
12:U:171:GLY:HA2	12:U:177:SER:HB3	1.95	0.48
1:A:432:TYR:CD1	1:A:435:LEU:HD13	2.47	0.48
1:A:445:GLU:CD	1:A:445:GLU:H	2.17	0.48
2:B:118:GLN:OE1	2:B:118:GLN:N	2.47	0.48
4:D:1180:ARG:HH21	4:D:1184:LYS:N	2.12	0.48
4:D:1342:LYS:HG3	4:D:1343:TYR:CD2	2.48	0.48
6:F:269:SER:HA	6:F:272:LEU:HG	1.96	0.48
6:F:825:LEU:HD23	6:F:828:LEU:HD12	1.95	0.48
7:G:84:ILE:HA	7:G:98:GLU:HG3	1.95	0.48
8:H:395:ARG:HA	8:H:398:TRP:HB3	1.96	0.48
8:H:576:GLN:O	8:H:580:ILE:HG12	2.13	0.48
1:J:605:ARG:C	1:J:609:LYS:HZ3	2.16	0.48
2:K:223:HIS:CE1	2:K:271:PRO:HB2	2.48	0.48
4:M:1072:VAL:HG11	4:M:1079:TYR:CD2	2.48	0.48
4:M:1106:ARG:NH2	4:M:1148:ALA:O	2.47	0.48
6:O:410:ARG:NE	6:O:410:ARG:HA	2.28	0.48
6:O:499:GLN:HE21	6:O:502:ARG:NH1	2.11	0.48
6:O:538:HIS:HA	6:O:542:MET:CG	2.44	0.48
6:O:557:GLU:OE2	6:O:558:GLN:HG3	2.13	0.48
7:P:97:TYR:HB2	7:P:140:TRP:CE2	2.49	0.48
7:P:110:CYS:C	7:P:120:LEU:HD12	2.34	0.48
7:P:131:ILE:HD11	7:P:158:TRP:CH2	2.47	0.48
7:P:194:TRP:HB3	7:P:201:TRP:HE3	1.78	0.48
8:Q:276:PHE:HA	8:Q:279:ASN:ND2	2.25	0.48
8:Q:341:LEU:HB2	8:Q:356:LEU:HD23	1.95	0.48
8:Q:576:GLN:HB3	8:Q:579:LEU:HD12	1.94	0.48
9:R:1062:ILE:HG23	9:R:1067:TRP:HE1	1.78	0.48
10:S:440:LEU:HB3	10:S:509:PRO:O	2.13	0.48
10:S:710:THR:HA	10:S:713:GLU:HG3	1.95	0.48
10:S:1065:TYR:HD2	10:S:1066:GLN:OE1	1.95	0.48
10:S:1178:ARG:HE	10:S:1179:LYS:H	1.61	0.48
10:S:1488:HIS:CE1	10:S:1491:GLY:H	2.32	0.48
10:S:1633:SER:O	10:S:1637:HIS:N	2.45	0.48
10:S:1842:VAL:HA	10:S:1845:LEU:HG	1.94	0.48
12:U:406:GLU:CA	12:U:410:LYS:HG3	2.43	0.48
1:A:296:ARG:NH1	1:A:336:GLY:HA3	2.29	0.48
1:A:411:HIS:HD2	1:A:414:LEU:HB2	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:362:THR:OG1	2:B:363:ASP:N	2.47	0.48
4:D:776:TRP:CZ3	4:D:894:TYR:HD1	2.32	0.48
5:E:136:GLU:OE1	5:E:136:GLU:N	2.46	0.48
6:F:591:ALA:O	6:F:594:ILE:HG12	2.12	0.48
6:F:691:VAL:O	6:F:695:LEU:HG	2.12	0.48
8:H:447:MET:HG2	8:H:478:TRP:CE3	2.48	0.48
9:I:249:ARG:CZ	9:I:254:PHE:H	2.26	0.48
1:J:107:SER:HA	1:J:110:ARG:NE	2.27	0.48
2:K:194:LEU:HD23	2:K:208:PHE:CE2	2.48	0.48
3:L:17:ASP:HB2	3:L:61:TRP:O	2.13	0.48
3:L:245:VAL:H	3:L:246:ARG:HH21	1.59	0.48
3:L:304:LEU:O	3:L:315:CYS:HA	2.14	0.48
4:M:1120:GLN:HB3	4:M:1124:TYR:CE2	2.48	0.48
4:M:1335:GLU:HA	4:M:1338:ARG:CD	2.43	0.48
7:P:183:VAL:HG12	7:P:193:ILE:HG13	1.95	0.48
9:R:650:VAL:O	9:R:654:ILE:HG12	2.14	0.48
10:S:702:ARG:HD3	10:S:758:VAL:HA	1.95	0.48
10:S:1630:LEU:HD11	10:S:1644:VAL:HG11	1.96	0.48
12:U:622:LEU:HD21	12:U:625:GLU:OE1	2.13	0.48
1:A:46:GLU:OE2	3:C:14:LEU:HD23	2.14	0.48
2:B:191:GLN:OE1	2:B:208:PHE:N	2.34	0.48
3:C:247:ILE:HD12	3:C:272:ALA:HB3	1.95	0.48
5:E:94:ARG:HD3	5:E:154:LEU:HD22	1.94	0.48
7:G:84:ILE:HG23	7:G:95:LYS:HZ2	1.78	0.48
7:G:212:ASP:HB2	7:G:236:ASP:HB3	1.95	0.48
8:H:351:ASP:OD1	8:H:352:GLU:N	2.45	0.48
9:I:872:TYR:HD1	9:I:876:PHE:HE2	1.62	0.48
9:I:881:PHE:HD2	9:I:885:LEU:HD11	1.78	0.48
4:M:905:ASN:HB3	4:M:908:SER:HB2	1.95	0.48
4:M:1189:ALA:HA	4:M:1192:ARG:NE	2.28	0.48
5:N:232:TRP:HD1	5:N:249:ALA:CA	2.24	0.48
6:O:276:GLU:HG3	10:S:678:LEU:HA	1.96	0.48
6:O:386:LEU:O	6:O:409:ARG:NH2	2.46	0.48
6:O:601:CYS:HA	6:O:604:LEU:HD12	1.95	0.48
6:O:734:ARG:HG2	6:O:735:ARG:NH2	2.22	0.48
8:Q:804:VAL:O	8:Q:808:ILE:HG13	2.13	0.48
9:R:767:HIS:HE1	9:R:833:PRO:HG2	1.78	0.48
9:R:1129:LYS:NZ	9:R:1133:GLU:OE1	2.29	0.48
10:S:331:LEU:HD11	10:S:396:PHE:CE1	2.47	0.48
10:S:434:ARG:NE	10:S:437:GLU:OE1	2.46	0.48
10:S:1114:MET:HE3	10:S:1283:SER:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:82:ALA:HB1	11:T:129:VAL:HG22	1.96	0.48
12:U:588:LEU:HD22	12:U:592:GLY:O	2.13	0.48
12:U:755:ASN:O	12:U:759:THR:HG23	2.12	0.48
1:A:123:THR:HG21	1:A:130:TYR:HE2	1.78	0.48
3:C:292:VAL:HG13	3:C:306:LYS:HD2	1.95	0.48
4:D:891:LEU:HD21	4:D:912:MET:CG	2.39	0.48
4:D:1128:LEU:HD21	4:D:1186:TYR:CD2	2.48	0.48
8:H:436:TRP:CD1	8:H:487:LEU:HD11	2.49	0.48
8:H:614:GLU:O	8:H:617:LYS:HG3	2.13	0.48
9:I:576:PHE:HZ	11:T:640:ALA:HB1	1.79	0.48
9:I:835:LEU:HD13	9:I:855:ILE:HD11	1.95	0.48
9:I:1026:ARG:HB2	9:I:1031:ASP:OD2	2.14	0.48
9:I:1134:CYS:HB2	9:R:582:ILE:HD11	1.96	0.48
1:J:282:CYS:HA	1:J:285:LEU:HD12	1.95	0.48
1:J:475:SER:O	1:J:480:ARG:N	2.37	0.48
1:J:490:ARG:HG3	2:K:26:SER:H	1.76	0.48
2:K:186:VAL:HA	2:K:192:LEU:HD23	1.95	0.48
4:M:240:VAL:HB	4:M:255:ALA:HB3	1.95	0.48
4:M:1347:GLU:O	4:M:1351:GLU:OE1	2.32	0.48
5:N:182:MET:HB2	5:N:216:TRP:HZ2	1.78	0.48
6:O:682:GLN:HB3	7:P:168:VAL:HG13	1.95	0.48
6:O:756:HIS:CD2	6:O:761:ARG:HH12	2.32	0.48
7:P:33:SER:HA	7:P:35:ARG:NH2	2.27	0.48
7:P:35:ARG:NH1	7:P:57:ASP:O	2.45	0.48
8:Q:162:VAL:O	8:Q:166:ILE:HG13	2.13	0.48
8:Q:177:ILE:HA	8:Q:204:LEU:HD21	1.95	0.48
8:Q:534:LEU:HD13	8:Q:570:ARG:HH22	1.78	0.48
10:S:226:GLN:OE1	10:S:266:LYS:HG3	2.14	0.48
10:S:511:LEU:HA	10:S:514:LEU:HD12	1.96	0.48
10:S:739:THR:O	10:S:743:ARG:HB2	2.13	0.48
10:S:779:ASP:O	10:S:796:LYS:NZ	2.39	0.48
10:S:1227:VAL:HG23	10:S:1261:LEU:HD22	1.95	0.48
10:S:1542:GLN:HE21	10:S:1603:GLU:HB3	1.79	0.48
11:T:552:GLU:HA	11:T:625:TYR:CE1	2.49	0.48
12:U:546:ARG:O	12:U:550:GLN:NE2	2.46	0.48
1:A:109:LEU:O	1:A:113:MET:HG2	2.13	0.48
1:A:391:TYR:OH	1:A:397:ARG:NH2	2.38	0.48
2:B:101:PHE:HE1	6:O:279:ASP:OD2	1.96	0.48
2:B:227:GLN:HG3	2:B:228:HIS:N	2.29	0.48
2:B:235:GLN:OE1	2:B:260:GLU:HB2	2.13	0.48
6:F:343:PHE:HB3	6:F:680:HIS:NE2	2.29	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:663:ALA:HA	6:F:666:GLU:OE1	2.13	0.48
7:G:40:PHE:CE1	7:G:49:LEU:HD13	2.48	0.48
7:G:82:LYS:HD2	7:G:98:GLU:HB3	1.96	0.48
7:G:83:VAL:HG12	7:G:85:ILE:HD11	1.95	0.48
9:I:702:ILE:HD13	4:M:1068:ARG:CZ	2.43	0.48
9:I:856:LEU:HD23	9:I:859:ILE:HD11	1.96	0.48
1:J:95:LYS:O	1:J:99:VAL:HG13	2.13	0.48
1:J:503:ARG:HH11	1:J:506:LYS:HE2	1.79	0.48
4:M:79:TYR:OH	4:M:214:SER:O	2.24	0.48
4:M:679:LEU:HD12	4:M:760:LEU:HD22	1.96	0.48
4:M:1249:CYS:HA	4:M:1252:LEU:HD12	1.96	0.48
5:N:122:GLY:O	5:N:150:ARG:NH1	2.47	0.48
6:O:433:GLY:H	6:O:436:ARG:HB2	1.79	0.48
7:P:53:LEU:HD21	7:P:86:TRP:CE3	2.49	0.48
8:Q:145:SER:O	8:Q:148:PRO:HD2	2.13	0.48
8:Q:146:MET:CE	8:Q:539:ARG:HH12	2.27	0.48
8:Q:469:LEU:HD13	8:Q:473:TYR:HE2	1.78	0.48
9:R:696:ASP:O	9:R:700:THR:HG23	2.13	0.48
9:R:819:LEU:O	9:R:822:GLU:HG3	2.14	0.48
9:R:971:VAL:O	9:R:975:LYS:HG2	2.14	0.48
9:R:1060:LYS:O	9:R:1064:ARG:HG2	2.13	0.48
9:R:1087:LYS:O	9:R:1090:GLN:HG3	2.13	0.48
10:S:775:PRO:O	10:S:776:GLN:NE2	2.47	0.48
10:S:804:HIS:HA	10:S:807:LEU:HD12	1.95	0.48
10:S:1405:PHE:HD1	10:S:1408:LYS:HZ3	1.55	0.48
10:S:1675:LEU:O	10:S:1679:ILE:HG12	2.13	0.48
10:S:1956:GLN:NE2	10:S:1960:ASP:OD1	2.46	0.48
12:U:628:LYS:O	12:U:632:LEU:HG	2.14	0.48
1:A:58:ARG:HE	1:A:61:GLU:HG2	1.79	0.48
1:A:145:ASN:HD22	1:A:171:HIS:CE1	2.31	0.48
1:A:428:LEU:HD23	1:A:428:LEU:H	1.79	0.48
1:A:446:LYS:O	1:A:450:LYS:HG2	2.14	0.48
2:B:20:ARG:HE	2:B:32:VAL:HB	1.79	0.48
3:C:248:PHE:HA	3:C:269:HIS:O	2.14	0.48
4:D:433:GLY:N	11:T:114:SER:N	2.60	0.48
5:E:266:VAL:HG11	5:E:324:THR:HG21	1.94	0.48
6:F:575:PRO:CD	6:F:597:GLN:CD	2.82	0.48
6:F:628:PRO:HB2	6:F:631:TYR:CE1	2.49	0.48
7:G:24:TYR:HB2	7:G:26:ILE:HG12	1.94	0.48
7:G:64:ALA:HB1	7:G:111:TRP:CD1	2.49	0.48
7:G:191:VAL:HB	7:G:207:LEU:HB2	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:262:VAL:HG22	8:H:445:LYS:HZ1	1.78	0.48
9:I:506:THR:HA	9:I:509:LEU:HD12	1.96	0.48
2:K:193:LYS:HB2	2:K:195:TRP:CH2	2.49	0.48
2:K:282:SER:HB2	2:K:284:TRP:CH2	2.49	0.48
4:M:501:VAL:O	4:M:505:VAL:HG23	2.13	0.48
4:M:1348:GLU:HA	4:M:1351:GLU:OE1	2.14	0.48
6:O:438:ILE:HD13	6:O:501:GLU:OE2	2.14	0.48
7:P:35:ARG:O	7:P:56:HIS:ND1	2.40	0.48
8:Q:253:THR:O	8:Q:256:ARG:N	2.46	0.48
8:Q:337:LEU:HD23	8:Q:340:TYR:HD2	1.79	0.48
8:Q:436:TRP:CD1	8:Q:487:LEU:HD11	2.49	0.48
10:S:458:LEU:HD21	10:S:522:GLN:HG3	1.96	0.48
10:S:1545:LEU:HD12	10:S:1546:LEU:H	1.79	0.48
12:U:471:ALA:HA	12:U:473:PHE:CE1	2.48	0.48
12:U:650:VAL:HA	12:U:653:GLN:OE1	2.14	0.48
2:B:260:GLU:HG2	2:B:262:TRP:CD1	2.49	0.48
4:D:669:ARG:HD2	11:T:369:HIS:HB2	1.96	0.48
4:D:1101:PHE:HB2	4:D:1127:CYS:SG	2.54	0.48
5:E:55:ASP:HB3	5:E:58:VAL:HB	1.96	0.48
6:F:250:SER:H	7:G:265:TRP:HZ2	1.61	0.48
7:G:62:GLN:HE22	7:G:108:SER:CA	2.27	0.48
7:G:97:TYR:CE2	7:G:99:TYR:HB2	2.49	0.48
8:H:276:PHE:CE1	8:H:283:TYR:HE2	2.32	0.48
9:I:462:THR:OG1	9:I:464:VAL:CG2	2.62	0.48
9:I:1125:GLU:OE2	9:R:573:ALA:HB1	2.14	0.48
1:J:239:PRO:HD2	1:J:256:TRP:CZ3	2.49	0.48
1:J:283:ARG:HH12	1:J:286:LEU:HB2	1.79	0.48
2:K:284:TRP:CD1	2:K:297:PHE:HZ	2.31	0.48
3:L:63:VAL:HA	3:L:75:ALA:O	2.13	0.48
3:L:277:HIS:CE1	3:L:303:ARG:HG2	2.49	0.48
4:M:289:ALA:HB1	4:M:346:LEU:HD13	1.95	0.48
4:M:964:ARG:HH12	4:M:968:LEU:HD12	1.79	0.48
6:O:691:VAL:O	6:O:694:LEU:HG	2.14	0.48
7:P:39:ILE:O	7:P:49:LEU:HD12	2.14	0.48
8:Q:351:ASP:HA	8:Q:354:GLN:NE2	2.28	0.48
8:Q:395:ARG:HA	8:Q:398:TRP:HB3	1.96	0.48
8:Q:644:HIS:HB2	8:Q:842:ARG:HB2	1.94	0.48
9:R:514:LEU:O	9:R:518:ARG:HG2	2.13	0.48
10:S:319:PRO:HB2	10:S:321:LYS:NZ	2.29	0.48
10:S:467:LEU:O	10:S:477:LEU:HD13	2.14	0.48
10:S:1114:MET:HE1	10:S:1284:TRP:HB2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1753:GLN:CD	10:S:1891:LEU:HB2	2.34	0.48
10:S:1816:HIS:HD2	10:S:1817:LEU:HD22	1.79	0.48
11:T:981:ARG:HD3	11:T:984:ARG:HD3	1.96	0.48
12:U:782:LYS:NZ	12:U:786:LEU:HD11	2.29	0.48
1:A:322:LEU:HD23	1:A:325:TYR:CE2	2.49	0.48
3:C:285:SER:OG	3:C:294:ALA:HB3	2.14	0.48
3:C:305:TRP:O	3:C:306:LYS:HD3	2.12	0.48
4:D:606:ILE:HG23	4:D:678:LEU:HD21	1.96	0.48
4:D:1356:TYR:O	4:D:1360:LEU:HG	2.14	0.48
5:E:18:TYR:HE1	5:E:298:VAL:HG11	1.79	0.48
5:E:152:TRP:CH2	5:E:158:GLN:NE2	2.82	0.48
6:F:433:GLY:H	6:F:436:ARG:HB2	1.79	0.48
6:F:438:ILE:HD13	6:F:501:GLU:OE2	2.14	0.48
6:F:538:HIS:HA	6:F:542:MET:CG	2.44	0.48
6:F:733:SER:HA	6:F:736:ASP:OD1	2.14	0.48
7:G:109:VAL:HA	7:G:121:ALA:O	2.14	0.48
7:G:210:HIS:CE1	7:G:234:SER:HG	2.30	0.48
8:H:776:LYS:O	8:H:780:GLU:HG3	2.14	0.48
9:I:770:ILE:HG23	9:I:785:LEU:HD21	1.96	0.48
9:I:870:GLN:HA	9:I:873:MET:CE	2.44	0.48
4:M:1070:ARG:HD3	4:M:1106:ARG:NH2	2.28	0.48
4:M:1205:ILE:O	4:M:1209:SER:N	2.47	0.48
4:M:1410:LYS:O	4:M:1414:LYS:HG2	2.14	0.48
6:O:329:LEU:HD23	6:O:330:LYS:HE3	1.95	0.48
6:O:411:LYS:O	6:O:414:SER:OG	2.28	0.48
6:O:438:ILE:CG2	6:O:501:GLU:HG2	2.41	0.48
6:O:635:TRP:HZ3	6:O:636:HIS:CE1	2.32	0.48
7:P:163:ILE:HA	7:P:181:ARG:NH1	2.28	0.48
8:Q:144:MET:SD	8:Q:574:GLU:HG2	2.54	0.48
8:Q:201:LEU:O	8:Q:204:LEU:HB3	2.13	0.48
8:Q:520:ASP:O	8:Q:523:SER:HB2	2.13	0.48
8:Q:528:ASN:ND2	8:Q:532:LEU:HD13	2.28	0.48
8:Q:596:TYR:HD2	8:Q:626:ILE:HG13	1.78	0.48
8:Q:751:PHE:CD1	8:Q:851:LEU:HD21	2.49	0.48
8:Q:837:MET:HG2	8:Q:841:ARG:HH22	1.79	0.48
10:S:387:ARG:NH2	10:S:454:LEU:HD22	2.29	0.48
10:S:956:GLU:HA	10:S:977:ARG:HH21	1.79	0.48
10:S:1338:PHE:CD1	10:S:1419:HIS:HA	2.49	0.48
10:S:1414:GLN:HA	10:S:1417:ARG:HE	1.78	0.48
11:T:246:LEU:HD23	11:T:322:LEU:HD22	1.94	0.48
11:T:248:ASN:O	11:T:252:LEU:N	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:392:LYS:HD3	11:T:393:PRO:HD2	1.96	0.48
12:U:31:ARG:NH2	12:U:35:GLU:HB3	2.29	0.48
12:U:558:GLU:OE1	12:U:558:GLU:N	2.47	0.48
1:A:9:ALA:N	3:C:316:ILE:O	2.46	0.47
1:A:397:ARG:HB2	1:A:398:GLU:OE1	2.14	0.47
3:C:16:HIS:HB3	3:C:61:TRP:O	2.14	0.47
3:C:277:HIS:HE1	3:C:301:THR:O	1.97	0.47
6:F:685:HIS:CE1	7:G:167:LEU:HD21	2.49	0.47
6:F:707:SER:O	6:F:711:GLU:OE1	2.32	0.47
9:I:821:MET:O	9:I:825:GLN:OE1	2.32	0.47
1:J:554:ALA:O	1:J:558:LEU:HD23	2.14	0.47
2:K:222:ARG:HB2	2:K:227:GLN:HA	1.96	0.47
3:L:181:MET:HB2	3:L:201:GLU:HG2	1.94	0.47
3:L:308:ASN:HB3	3:L:314:LYS:CE	2.44	0.47
4:M:306:HIS:CE1	4:M:335:ARG:HA	2.47	0.47
4:M:338:ALA:HA	4:M:342:HIS:HD1	1.77	0.47
6:O:336:LYS:NZ	6:O:341:PRO:HG3	2.29	0.47
7:P:129:ILE:HB	7:P:145:ILE:HB	1.96	0.47
7:P:163:ILE:HA	7:P:181:ARG:HH12	1.79	0.47
8:Q:218:TYR:HE1	8:Q:510:VAL:HG13	1.79	0.47
8:Q:450:SER:HG	8:Q:478:TRP:HE1	1.62	0.47
8:Q:613:LEU:HG	8:Q:623:VAL:HG21	1.96	0.47
8:Q:819:TRP:O	8:Q:821:VAL:N	2.47	0.47
9:R:204:THR:HG21	9:R:276:PHE:CE1	2.48	0.47
9:R:325:LYS:HA	9:R:328:ILE:HD13	1.96	0.47
9:R:494:ASP:HB2	9:R:515:ARG:HG2	1.95	0.47
9:R:657:ALA:HB1	9:R:688:CYS:HB3	1.96	0.47
9:R:988:HIS:O	9:R:1019:TYR:OH	2.30	0.47
10:S:29:ILE:HG21	10:S:963:SER:HA	1.96	0.47
10:S:421:SER:HA	10:S:424:MET:HE2	1.97	0.47
10:S:729:PHE:CE1	10:S:732:TYR:HB2	2.49	0.47
10:S:913:SER:O	10:S:917:LEU:HG	2.14	0.47
10:S:1178:ARG:O	10:S:1181:LEU:HB3	2.13	0.47
10:S:1587:TYR:HB3	10:S:1619:LEU:HD13	1.96	0.47
11:T:231:ARG:NH2	11:T:317:ILE:HB	2.29	0.47
12:U:257:ARG:O	12:U:260:LEU:HG	2.14	0.47
12:U:693:LEU:HA	12:U:696:LEU:HD12	1.96	0.47
1:A:147:CYS:SG	1:A:148:GLU:N	2.86	0.47
2:B:120:HIS:CG	2:B:145:GLY:HA3	2.49	0.47
4:D:54:ARG:HH21	4:D:715:CYS:HB2	1.79	0.47
4:D:431:GLN:N	11:T:110:ASP:O	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1414:LYS:HA	4:D:1417:GLU:OE1	2.14	0.47
6:F:293:SER:HA	7:G:11:SER:HB2	1.96	0.47
6:F:808:VAL:HG12	6:F:812:LEU:HD23	1.96	0.47
7:G:149:HIS:CD2	7:G:186:GLY:HA3	2.48	0.47
8:H:469:LEU:HD13	8:H:473:TYR:HE2	1.78	0.47
9:I:555:ILE:HG22	9:I:633:LEU:HD11	1.97	0.47
9:I:600:PHE:O	9:I:604:VAL:HG22	2.14	0.47
1:J:27:TRP:HE1	3:L:285:SER:HB3	1.78	0.47
1:J:434:LYS:HA	1:J:437:MET:HE2	1.95	0.47
1:J:540:ARG:NH2	1:J:543:HIS:HB3	2.29	0.47
1:J:540:ARG:HG3	1:J:544:ARG:CZ	2.45	0.47
1:J:588:VAL:HG22	1:J:643:ARG:NH1	2.28	0.47
4:M:1143:GLN:HG2	4:M:1175:GLU:HB2	1.97	0.47
4:M:1335:GLU:O	4:M:1338:ARG:NH1	2.40	0.47
6:O:248:GLY:O	7:P:265:TRP:HH2	1.97	0.47
6:O:275:GLU:HA	10:S:678:LEU:N	2.29	0.47
6:O:705:PRO:O	6:O:708:LEU:HB3	2.14	0.47
7:P:212:ASP:HB2	7:P:236:ASP:OD1	2.14	0.47
8:Q:180:LEU:HB3	8:Q:201:LEU:HD22	1.96	0.47
8:Q:318:ALA:HA	8:Q:321:ARG:NH2	2.28	0.47
8:Q:425:ASN:ND2	8:Q:428:GLN:OE1	2.46	0.47
8:Q:850:PHE:CE1	8:Q:891:LEU:HB2	2.49	0.47
10:S:299:SER:HA	10:S:302:MET:HG3	1.96	0.47
10:S:976:ILE:O	10:S:980:THR:HG23	2.14	0.47
10:S:1267:ARG:O	10:S:1270:LEU:HG	2.13	0.47
10:S:1707:ILE:CG2	10:S:1711:GLN:HE22	2.28	0.47
11:T:20:GLN:NE2	11:T:483:SER:HA	2.28	0.47
11:T:459:PRO:HB3	11:T:553:THR:HA	1.95	0.47
11:T:920:ILE:HD11	11:T:954:HIS:NE2	2.28	0.47
12:U:664:LEU:HD23	12:U:667:MET:SD	2.54	0.47
2:B:183:ILE:HG13	2:B:195:TRP:CE3	2.44	0.47
3:C:294:ALA:HA	3:C:304:LEU:HD23	1.97	0.47
4:D:95:LEU:HD12	4:D:848:VAL:HG13	1.96	0.47
4:D:1184:LYS:NZ	4:D:1234:PHE:HA	2.29	0.47
4:D:1234:PHE:HB2	4:D:1236:LEU:HG	1.96	0.47
4:D:1272:LEU:HD11	4:D:1290:LEU:HD13	1.95	0.47
5:E:2:LYS:HB3	5:E:290:PRO:HG3	1.96	0.47
5:E:41:ILE:HD12	5:E:74:ARG:HE	1.79	0.47
6:F:303:LYS:NZ	6:F:305:HIS:HD2	2.12	0.47
6:F:387:TRP:CE3	6:F:637:MET:HE1	2.46	0.47
6:F:573:PRO:HG3	6:F:602:VAL:HG21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:665:LEU:O	6:F:668:VAL:HG22	2.15	0.47
8:H:227:GLU:C	8:H:229:GLU:H	2.18	0.47
8:H:351:ASP:HA	8:H:354:GLN:NE2	2.29	0.47
1:J:613:THR:O	1:J:619:GLN:NE2	2.31	0.47
2:K:96:GLY:HA3	2:K:128:ARG:HH21	1.78	0.47
2:K:223:HIS:HB3	2:K:226:GLN:O	2.14	0.47
3:L:141:ILE:HG21	3:L:209:TYR:OH	2.14	0.47
4:M:996:GLN:HE21	4:M:1022:GLN:HE22	1.61	0.47
4:M:1230:LEU:HA	4:M:1233:THR:HG22	1.96	0.47
5:N:255:ARG:HD2	5:N:272:TYR:HD1	1.78	0.47
6:O:646:TYR:HD1	6:O:648:HIS:CE1	2.32	0.47
6:O:685:HIS:HE1	7:P:166:SER:O	1.98	0.47
6:O:701:VAL:HG12	6:O:732:ARG:NH2	2.29	0.47
6:O:786:PRO:HA	6:O:789:CYS:HB2	1.95	0.47
7:P:216:ASP:HB3	7:P:267:VAL:HG22	1.96	0.47
8:Q:261:VAL:O	8:Q:264:TRP:HB3	2.15	0.47
8:Q:360:CYS:HB2	8:Q:362:GLN:OE1	2.13	0.47
8:Q:549:ARG:HD3	8:Q:553:LEU:O	2.14	0.47
9:R:68:SER:OG	9:R:69:GLU:OE2	2.32	0.47
10:S:52:SER:HB2	10:S:55:LYS:HB2	1.95	0.47
10:S:295:MET:HG3	10:S:301:PHE:CG	2.50	0.47
10:S:773:TYR:CG	10:S:799:GLY:HA3	2.50	0.47
11:T:497:THR:HG21	11:T:518:ARG:HB2	1.97	0.47
12:U:720:LEU:HD13	12:U:731:ARG:HD2	1.96	0.47
1:A:487:TRP:CD1	1:A:487:TRP:N	2.78	0.47
3:C:55:THR:HG22	3:C:56:HIS:CD2	2.49	0.47
3:C:254:ARG:HG3	3:C:256:GLU:H	1.78	0.47
4:D:915:GLN:O	4:D:918:LEU:HG	2.14	0.47
4:D:1006:HIS:HB3	4:D:1010:MET:HE1	1.97	0.47
6:F:382:LEU:HD13	6:F:601:CYS:HG	1.67	0.47
6:F:410:ARG:NE	6:F:410:ARG:HA	2.28	0.47
8:H:242:LYS:HD3	8:H:376:HIS:HB2	1.97	0.47
8:H:337:LEU:HD23	8:H:340:TYR:HD2	1.79	0.47
8:H:743:ALA:HB1	8:H:811:VAL:HG22	1.95	0.47
9:I:110:TRP:HB3	9:I:117:LEU:HD11	1.95	0.47
9:I:856:LEU:HD13	9:I:872:TYR:CE1	2.49	0.47
9:I:1131:ASN:HB3	9:I:1135:TYR:CE2	2.50	0.47
1:J:21:ARG:CD	1:J:41:LYS:HD3	2.45	0.47
1:J:402:LEU:HD22	1:J:432:TYR:CE1	2.49	0.47
1:J:532:ARG:NH2	1:J:567:ALA:H	2.12	0.47
1:J:566:ILE:HG22	1:J:575:LEU:HD21	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:288:ALA:HB1	2:K:291:ASP:O	2.14	0.47
5:N:231:ASP:HA	5:N:249:ALA:H	1.80	0.47
5:N:283:HIS:NE2	5:N:290:PRO:HG3	2.29	0.47
6:O:457:ALA:O	6:O:462:ASP:N	2.31	0.47
6:O:571:CYS:HG	6:O:585:PHE:HD1	1.63	0.47
8:Q:242:LYS:HD3	8:Q:376:HIS:HB2	1.97	0.47
8:Q:624:ALA:HB1	8:Q:628:LYS:HZ3	1.78	0.47
8:Q:837:MET:HG2	8:Q:841:ARG:NH2	2.30	0.47
8:Q:885:LYS:O	8:Q:888:MET:HG3	2.15	0.47
9:R:500:ILE:HG22	9:R:501:ALA:N	2.28	0.47
9:R:767:HIS:NE2	9:R:771:LEU:HD11	2.30	0.47
10:S:738:ASP:O	10:S:742:LEU:HB2	2.13	0.47
10:S:1231:HIS:HA	10:S:1234:LEU:HD12	1.96	0.47
12:U:534:MET:O	12:U:537:THR:OG1	2.29	0.47
12:U:610:ILE:CG2	12:U:633:ALA:HB2	2.43	0.47
1:A:550:GLN:O	1:A:554:ALA:CB	2.62	0.47
4:D:1305:TYR:HA	4:D:1308:CYS:SG	2.55	0.47
4:D:1362:GLY:HA2	4:D:1372:ALA:O	2.15	0.47
6:F:344:ARG:NE	6:F:344:ARG:HA	2.29	0.47
8:H:767:LEU:HD23	8:H:779:HIS:ND1	2.30	0.47
9:I:576:PHE:CZ	11:T:643:VAL:N	2.82	0.47
9:I:629:HIS:HA	9:I:632:LYS:HZ3	1.80	0.47
9:I:1003:ASP:O	9:I:1007:MET:HG3	2.14	0.47
1:J:25:PHE:HE1	1:J:27:TRP:NE1	2.11	0.47
1:J:355:ILE:HD12	1:J:385:PHE:CE1	2.49	0.47
1:J:449:LEU:HB3	1:J:453:ARG:NH2	2.29	0.47
1:J:559:LEU:O	1:J:563:THR:HG22	2.14	0.47
2:K:274:LEU:HD22	2:K:335:LEU:HD12	1.95	0.47
3:L:142:TYR:CE1	3:L:155:LEU:HD13	2.50	0.47
4:M:688:MET:H	4:M:874:PRO:HD2	1.80	0.47
4:M:996:GLN:NE2	4:M:1022:GLN:HE22	2.12	0.47
4:M:1162:ASP:OD1	10:S:466:PRO:HG3	2.14	0.47
4:M:1399:GLU:OE2	4:M:1401:ASN:N	2.48	0.47
6:O:464:ARG:HH22	8:Q:368:THR:HG22	1.78	0.47
8:Q:351:ASP:OD1	8:Q:352:GLU:N	2.45	0.47
8:Q:359:ARG:NH1	12:U:34:GLN:HE21	2.13	0.47
9:R:544:ASP:CB	9:R:613:CYS:HB3	2.45	0.47
10:S:569:ASP:OD2	10:S:583:LEU:HA	2.14	0.47
10:S:691:ILE:HG23	10:S:694:ARG:NH2	2.30	0.47
10:S:1090:SER:HA	10:S:1093:GLN:NE2	2.29	0.47
10:S:1251:PRO:O	10:S:1254:MET:N	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1569:ALA:HA	10:S:1572:LEU:HD12	1.97	0.47
11:T:538:SER:N	11:T:541:GLU:OE2	2.40	0.47
11:T:948:GLN:O	11:T:967:LEU:HD21	2.15	0.47
1:A:318:LYS:O	1:A:322:LEU:HG	2.15	0.47
1:A:395:ASN:HD21	1:A:398:GLU:CD	2.18	0.47
2:B:94:SER:HA	2:B:130:PRO:HG3	1.96	0.47
2:B:338:THR:HG23	2:B:340:LEU:HD11	1.95	0.47
3:C:38:VAL:HG21	3:C:103:TRP:CH2	2.49	0.47
3:C:118:ASP:N	3:C:133:CYS:SG	2.87	0.47
6:F:607:LEU:CD2	6:F:615:LEU:HD22	2.43	0.47
6:F:802:TYR:HA	6:F:805:TYR:CD2	2.26	0.47
7:G:35:ARG:O	7:G:54:ARG:NH1	2.47	0.47
7:G:196:GLU:HB2	7:G:201:TRP:CZ2	2.49	0.47
8:H:740:CYS:HB3	8:H:819:TRP:CD1	2.49	0.47
9:I:706:GLU:N	9:I:706:GLU:OE1	2.48	0.47
9:I:866:GLN:O	9:I:869:LEU:HB3	2.13	0.47
1:J:182:VAL:HA	1:J:191:HIS:ND1	2.28	0.47
1:J:599:MET:SD	1:J:600:ARG:NH2	2.88	0.47
4:M:1012:HIS:HB3	4:M:1015:GLN:OE1	2.13	0.47
5:N:172:ALA:HB3	5:N:182:MET:HB3	1.97	0.47
6:O:689:ALA:O	6:O:693:GLU:OE1	2.33	0.47
6:O:691:VAL:HG12	6:O:695:LEU:HD23	1.96	0.47
8:Q:218:TYR:CD2	8:Q:221:ARG:HD2	2.49	0.47
8:Q:447:MET:HG2	8:Q:478:TRP:CE3	2.48	0.47
8:Q:538:LEU:HD13	8:Q:567:TYR:HA	1.97	0.47
8:Q:812:LEU:HD12	8:Q:852:LEU:HD22	1.96	0.47
10:S:273:MET:HG2	10:S:385:PHE:CD1	2.49	0.47
10:S:320:TRP:CG	10:S:326:GLN:HB2	2.49	0.47
10:S:531:LEU:O	10:S:535:GLY:N	2.47	0.47
10:S:734:GLN:HA	10:S:737:ARG:HG2	1.96	0.47
10:S:815:LEU:O	10:S:818:SER:OG	2.27	0.47
10:S:833:PHE:CD1	10:S:834:PRO:HD2	2.50	0.47
10:S:1106:ALA:O	10:S:1109:GLN:HB2	2.14	0.47
10:S:1285:ARG:O	10:S:1288:VAL:HG22	2.15	0.47
10:S:1405:PHE:HA	10:S:1408:LYS:NZ	2.29	0.47
10:S:1980:ASP:OD1	10:S:1981:ILE:N	2.47	0.47
11:T:126:VAL:HG12	11:T:158:VAL:HG21	1.95	0.47
12:U:140:VAL:HG13	12:U:143:ARG:CZ	2.45	0.47
1:A:111:ALA:HA	1:A:114:GLU:OE2	2.15	0.47
2:B:11:SER:CA	2:B:365:GLU:HG3	2.42	0.47
2:B:37:SER:CB	2:B:44:LYS:H	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:120:HIS:NE2	2:B:151:ASN:OD1	2.48	0.47
2:B:241:ILE:O	2:B:250:PRO:HA	2.14	0.47
2:B:298:LEU:HD13	2:B:336:GLU:HA	1.96	0.47
4:D:167:PRO:HA	4:D:171:ARG:HH21	1.80	0.47
4:D:623:ASP:HA	4:D:626:TYR:CD2	2.50	0.47
6:F:333:THR:OG1	6:F:344:ARG:O	2.27	0.47
6:F:377:GLY:HA2	6:F:380:TRP:HD1	1.80	0.47
7:G:180:LYS:HB3	7:G:201:TRP:CH2	2.49	0.47
8:H:144:MET:HA	8:H:147:TYR:HE2	1.78	0.47
8:H:199:SER:HA	8:H:202:TRP:CE3	2.48	0.47
8:H:249:PHE:O	8:H:256:ARG:NH2	2.37	0.47
8:H:538:LEU:HA	8:H:541:MET:HE3	1.97	0.47
9:I:866:GLN:O	9:I:870:GLN:OE1	2.33	0.47
9:I:1100:LYS:HB3	9:I:1136:MET:O	2.15	0.47
9:I:1119:LYS:HA	9:I:1124:PHE:HD2	1.79	0.47
1:J:25:PHE:HE2	3:L:283:ARG:NH2	2.13	0.47
1:J:305:PHE:CZ	1:J:309:ARG:HD2	2.50	0.47
2:K:190:GLY:N	2:K:216:PRO:HA	2.30	0.47
2:K:237:GLY:HA3	2:K:257:HIS:HB2	1.96	0.47
2:K:239:LEU:HD13	2:K:335:LEU:HD21	1.97	0.47
4:M:79:TYR:HH	4:M:210:ARG:HH12	1.52	0.47
4:M:99:ARG:NH1	4:M:120:ASP:OD2	2.48	0.47
4:M:927:LEU:HD11	4:M:977:LEU:HD13	1.96	0.47
4:M:1134:ILE:HG21	4:M:1138:TYR:HB2	1.96	0.47
4:M:1178:GLU:O	4:M:1182:LEU:HG	2.14	0.47
4:M:1282:SER:N	4:M:1285:ASP:OD2	2.47	0.47
4:M:1420:GLN:O	4:M:1424:LYS:HG2	2.15	0.47
6:O:377:GLY:HA2	6:O:380:TRP:HD1	1.80	0.47
6:O:663:ALA:O	6:O:667:ASN:ND2	2.48	0.47
6:O:693:GLU:HA	6:O:696:ASN:ND2	2.23	0.47
6:O:774:ARG:O	6:O:777:ARG:HG2	2.15	0.47
7:P:302:VAL:HG12	7:P:303:ASN:O	2.14	0.47
8:Q:276:PHE:CE1	8:Q:283:TYR:HE2	2.32	0.47
8:Q:354:GLN:O	8:Q:358:LYS:HG2	2.14	0.47
8:Q:577:ILE:HG13	8:Q:578:GLU:N	2.28	0.47
8:Q:614:GLU:HA	8:Q:617:LYS:HG2	1.95	0.47
8:Q:690:PHE:CD2	8:Q:699:ALA:HA	2.50	0.47
9:R:1087:LYS:HA	9:R:1090:GLN:HG3	1.97	0.47
10:S:154:LYS:HG3	10:S:167:VAL:HG13	1.97	0.47
10:S:461:TRP:CE3	10:S:526:TYR:HB3	2.49	0.47
10:S:864:LEU:O	10:S:867:SER:OG	2.22	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1349:ARG:NH1	10:S:1429:GLN:HG2	2.30	0.47
10:S:1803:LEU:HB2	10:S:1809:PRO:HB3	1.97	0.47
10:S:1891:LEU:O	10:S:1894:TYR:HB3	2.15	0.47
10:S:1902:ILE:HG23	10:S:1906:HIS:CD2	2.50	0.47
12:U:278:ASN:HB3	12:U:281:GLN:HB2	1.95	0.47
1:A:16:LEU:HG	3:C:4:ALA:HB3	1.96	0.47
1:A:53:PHE:HB2	3:C:5:ARG:NH1	2.29	0.47
1:A:106:ARG:NE	1:A:144:TRP:HD1	2.12	0.47
1:A:355:ILE:HG13	1:A:356:HIS:N	2.30	0.47
1:A:427:ASN:HA	1:A:430:ARG:NH2	2.30	0.47
1:A:593:GLU:OE2	1:A:594:GLN:NE2	2.46	0.47
3:C:195:GLY:HA2	3:C:215:LEU:C	2.35	0.47
4:D:110:ASP:HB2	4:D:132:ILE:O	2.15	0.47
4:D:570:PHE:CD2	4:D:713:VAL:HG21	2.49	0.47
4:D:698:ARG:NH1	4:D:837:ALA:HB1	2.30	0.47
5:E:20:HIS:HB3	5:E:39:GLY:O	2.15	0.47
6:F:828:LEU:HA	6:F:831:LYS:HZ3	1.78	0.47
8:H:354:GLN:O	8:H:358:LYS:HG2	2.14	0.47
1:J:40:GLN:NE2	3:L:298:ASP:O	2.44	0.47
2:K:218:HIS:CE1	2:K:235:GLN:HB2	2.44	0.47
3:L:17:ASP:HB3	3:L:30:CYS:SG	2.54	0.47
3:L:122:ALA:HA	3:L:170:TRP:CE2	2.50	0.47
4:M:83:ALA:HB3	4:M:550:ALA:HB2	1.97	0.47
4:M:229:PHE:HB2	4:M:241:ILE:HB	1.96	0.47
4:M:831:HIS:CE1	4:M:835:VAL:HG23	2.49	0.47
4:M:1260:GLN:HB3	4:M:1264:TRP:CZ2	2.49	0.47
6:O:336:LYS:HD2	6:O:341:PRO:HB3	1.96	0.47
6:O:478:VAL:O	6:O:481:LEU:HB2	2.15	0.47
8:Q:341:LEU:HD13	8:Q:356:LEU:HD23	1.96	0.47
8:Q:577:ILE:HG22	8:Q:599:PHE:HZ	1.79	0.47
10:S:461:TRP:HB3	10:S:526:TYR:CD1	2.49	0.47
10:S:1121:LEU:HD21	10:S:1295:CYS:SG	2.54	0.47
10:S:1230:LEU:O	10:S:1234:LEU:HG	2.14	0.47
10:S:1306:GLN:HA	10:S:1309:ILE:HD12	1.95	0.47
12:U:251:MET:HE3	12:U:254:ALA:HB3	1.96	0.47
12:U:343:GLN:OE1	12:U:343:GLN:N	2.48	0.47
2:B:148:GLY:HA3	2:B:169:SER:HB3	1.97	0.47
2:B:221:ASP:HB3	2:B:266:PHE:CE2	2.50	0.47
2:B:356:GLN:O	2:B:373:LEU:HG	2.15	0.47
4:D:293:LEU:HB3	4:D:298:TYR:HE2	1.79	0.47
4:D:811:ARG:HH12	4:D:829:ARG:HG2	1.78	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:883:MET:CE	4:D:891:LEU:HD22	2.45	0.47
4:D:1135:ARG:HB3	4:D:1138:TYR:HD2	1.80	0.47
4:D:1205:ILE:O	4:D:1209:SER:OG	2.10	0.47
6:F:334:VAL:HG13	6:F:343:PHE:CE1	2.50	0.47
8:H:181:LYS:NZ	8:H:201:LEU:HD11	2.30	0.47
8:H:494:ARG:HD2	8:H:494:ARG:HA	1.59	0.47
9:I:74:ASN:HD22	9:I:466:ARG:HB3	1.80	0.47
9:I:587:LEU:HD13	9:I:637:ILE:HA	1.97	0.47
9:I:622:THR:HG22	9:I:625:LEU:HD12	1.97	0.47
9:I:809:LYS:HD3	9:I:816:TYR:CG	2.49	0.47
9:I:1099:LEU:HB2	9:I:1139:GLN:HG3	1.97	0.47
3:L:120:LYS:HG3	3:L:170:TRP:NE1	2.29	0.47
4:M:525:GLN:O	4:M:528:ILE:N	2.48	0.47
4:M:911:PHE:O	4:M:915:GLN:HG3	2.14	0.47
4:M:1363:LYS:NZ	4:M:1365:HIS:HE1	2.12	0.47
4:M:1418:TYR:CZ	4:M:1422:LEU:HD22	2.50	0.47
6:O:528:GLN:CD	6:O:533:ARG:HH12	2.18	0.47
6:O:630:ASP:CG	6:O:632:ARG:HH21	2.18	0.47
6:O:744:LEU:O	6:O:748:LYS:HG2	2.15	0.47
7:P:59:PRO:HG2	7:P:61:TRP:CH2	2.50	0.47
7:P:87:LYS:HG2	7:P:94:GLU:O	2.15	0.47
7:P:290:GLU:HB3	7:P:294:GLY:HA2	1.96	0.47
9:R:689:LEU:HD13	9:R:692:LYS:CE	2.45	0.47
10:S:804:HIS:NE2	10:S:871:MET:HB3	2.30	0.47
10:S:1407:LEU:HG	10:S:1472:TYR:CD1	2.50	0.47
10:S:1791:ARG:CZ	10:S:1813:VAL:HG13	2.45	0.47
11:T:405:TRP:CH2	11:T:410:MET:HG3	2.50	0.47
12:U:343:GLN:HA	12:U:350:LYS:HG3	1.97	0.47
12:U:618:GLU:OE2	12:U:619:ASN:ND2	2.48	0.47
2:B:196:ASP:O	2:B:200:GLN:NE2	2.48	0.47
2:B:283:LEU:O	2:B:283:LEU:HD12	2.14	0.47
3:C:46:ASN:HB3	3:C:48:HIS:CE1	2.49	0.47
4:D:299:LEU:O	4:D:310:MET:HA	2.15	0.47
4:D:386:HIS:NE2	11:T:115:LYS:HE2	2.30	0.47
4:D:628:MET:HG2	4:D:641:VAL:CG1	2.45	0.47
4:D:1085:ALA:HA	4:D:1088:ILE:HD12	1.96	0.47
7:G:43:LYS:O	7:G:46:GLY:N	2.48	0.47
8:H:688:ARG:HH22	8:H:833:ARG:NE	2.13	0.47
8:H:758:ILE:HG13	8:H:759:ASN:N	2.30	0.47
9:I:626:LEU:HA	9:I:629:HIS:ND1	2.30	0.47
2:K:274:LEU:HB2	2:K:286:TRP:HB2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:81:ARG:NH2	3:L:115:SER:HA	2.30	0.47
3:L:237:ILE:HD13	3:L:249:THR:HA	1.97	0.47
4:M:293:LEU:HD22	4:M:382:TYR:CE1	2.49	0.47
4:M:344:LEU:HD21	4:M:357:LEU:HD22	1.97	0.47
5:N:302:LEU:HD11	5:N:311:CYS:HB2	1.95	0.47
6:O:275:GLU:HG2	6:O:277:ASP:H	1.79	0.47
6:O:699:CYS:HB2	6:O:728:ALA:HB1	1.97	0.47
7:P:134:PHE:HE1	7:P:138:GLY:O	1.97	0.47
8:Q:249:PHE:O	8:Q:256:ARG:NH2	2.37	0.47
8:Q:582:PHE:O	8:Q:586:HIS:NE2	2.48	0.47
9:R:215:SER:HB3	9:R:219:GLN:HG2	1.97	0.47
9:R:305:VAL:HB	9:R:309:TYR:CE2	2.49	0.47
9:R:971:VAL:HG12	9:R:975:LYS:NZ	2.29	0.47
10:S:211:LYS:HZ2	10:S:830:TYR:N	2.11	0.47
10:S:440:LEU:O	10:S:513:MET:HE2	2.15	0.47
10:S:690:GLU:O	10:S:694:ARG:HG3	2.14	0.47
10:S:799:GLY:O	10:S:802:LEU:HG	2.15	0.47
10:S:1425:LEU:HD11	10:S:1494:LEU:HA	1.95	0.47
10:S:2000:ARG:NH1	10:S:2003:ARG:HG2	2.29	0.47
11:T:480:LEU:HA	11:T:485:LEU:HD23	1.97	0.47
11:T:838:SER:HA	11:T:841:HIS:CD2	2.48	0.47
1:A:449:LEU:O	1:A:452:LEU:HB2	2.15	0.46
1:A:453:ARG:HA	1:A:456:GLU:CD	2.35	0.46
2:B:224:PRO:HD3	2:B:266:PHE:CD2	2.49	0.46
4:D:432:ALA:HB3	11:T:111:ILE:CA	2.41	0.46
4:D:637:SER:H	4:D:640:ARG:HE	1.62	0.46
4:D:974:LEU:HD12	4:D:976:GLU:OE2	2.15	0.46
5:E:18:TYR:CE1	5:E:298:VAL:HG11	2.51	0.46
5:E:121:GLU:HB2	5:E:152:TRP:CH2	2.50	0.46
6:F:255:TRP:CB	7:G:271:ILE:H	2.28	0.46
6:F:528:GLN:CD	6:F:533:ARG:HH12	2.18	0.46
6:F:671:TRP:CH2	6:F:714:LEU:HD11	2.50	0.46
8:H:201:LEU:O	8:H:205:GLN:NE2	2.47	0.46
8:H:375:TYR:HB2	8:H:395:ARG:HH12	1.80	0.46
8:H:765:PRO:O	8:H:766:THR:OG1	2.31	0.46
9:I:862:MET:SD	9:I:888:TRP:HZ2	2.39	0.46
9:I:888:TRP:CZ2	9:I:892:LYS:HG3	2.50	0.46
9:I:902:PRO:HD2	9:I:905:GLN:HE22	1.78	0.46
1:J:107:SER:HB2	2:K:325:TRP:CZ2	2.49	0.46
1:J:242:HIS:NE2	1:J:255:LYS:HD2	2.30	0.46
2:K:147:ASP:OD2	2:K:149:ARG:HB2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:166:ASP:HA	2:K:202:ASN:HA	1.97	0.46
3:L:81:ARG:HB3	3:L:112:SER:O	2.15	0.46
3:L:283:ARG:HD3	3:L:285:SER:OG	2.15	0.46
3:L:305:TRP:O	3:L:313:TRP:HZ3	1.98	0.46
4:M:414:LEU:HB3	9:R:183:LEU:O	2.14	0.46
4:M:1320:LEU:HD23	4:M:1325:ILE:CG1	2.43	0.46
4:M:1344:ASP:OD2	10:S:724:LEU:HG	2.16	0.46
6:O:259:TRP:CE3	7:P:275:ILE:HB	2.49	0.46
6:O:325:LEU:HA	6:O:328:GLU:OE1	2.14	0.46
6:O:498:ILE:HG23	8:Q:313:GLU:OE1	2.15	0.46
7:P:44:ASN:HB3	10:S:568:ARG:HE	1.79	0.46
8:Q:377:ASP:OD1	8:Q:387:GLN:HB2	2.15	0.46
9:R:283:SER:HA	9:R:302:MET:HG2	1.97	0.46
9:R:307:ARG:HA	9:R:330:ILE:HD12	1.96	0.46
10:S:587:THR:N	10:S:590:GLU:OE2	2.43	0.46
10:S:640:LYS:O	10:S:644:LEU:HG	2.15	0.46
10:S:762:VAL:HG22	10:S:766:PHE:CZ	2.50	0.46
10:S:773:TYR:CD1	10:S:799:GLY:HA3	2.50	0.46
10:S:1329:LEU:O	10:S:1333:VAL:HG22	2.16	0.46
10:S:1867:THR:HA	10:S:1870:LYS:HE2	1.97	0.46
12:U:536:TYR:HE2	12:U:551:TYR:CE1	2.34	0.46
1:A:80:VAL:C	1:A:84:LYS:HZ2	2.19	0.46
1:A:252:PHE:HE2	1:A:315:PRO:HB2	1.80	0.46
2:B:68:GLN:HE22	2:B:71:ASP:HB3	1.80	0.46
2:B:85:ASP:OD1	2:B:88:ARG:HG2	2.15	0.46
2:B:257:HIS:CG	2:B:258:GLU:N	2.83	0.46
4:D:536:THR:HA	4:D:539:LEU:HD12	1.97	0.46
4:D:831:HIS:CD2	4:D:835:VAL:HG23	2.50	0.46
4:D:1093:TYR:CD1	4:D:1134:ILE:HG12	2.50	0.46
5:E:124:SER:HB3	5:E:146:ASP:HB3	1.97	0.46
6:F:302:PHE:CB	7:G:12:HIS:CE1	2.98	0.46
6:F:459:LYS:HA	6:F:459:LYS:HD3	1.73	0.46
6:F:918:ARG:HA	6:F:921:ILE:HG22	1.97	0.46
8:H:663:ILE:HG23	8:H:702:VAL:HG22	1.98	0.46
9:I:590:LYS:NZ	9:I:677:ARG:HA	2.30	0.46
4:M:1125:LEU:C	4:M:1125:LEU:HD23	2.35	0.46
4:M:1164:GLU:OE2	10:S:496:ARG:HB3	2.14	0.46
4:M:1233:THR:O	4:M:1235:LYS:NZ	2.44	0.46
6:O:355:TYR:HH	6:O:636:HIS:HD1	1.63	0.46
6:O:796:GLU:CB	6:O:800:LYS:HZ3	2.29	0.46
6:O:804:ASP:O	6:O:808:VAL:HG23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:808:VAL:HG22	6:O:831:LYS:HE2	1.98	0.46
7:P:15:MET:N	7:P:15:MET:SD	2.87	0.46
7:P:110:CYS:C	7:P:158:TRP:HE1	2.18	0.46
8:Q:215:ALA:HB1	8:Q:219:ARG:HH21	1.81	0.46
8:Q:494:ARG:HA	8:Q:494:ARG:HH11	1.81	0.46
8:Q:633:ASN:HB3	8:Q:637:LYS:NZ	2.30	0.46
8:Q:643:ALA:H	8:Q:839:LEU:HD21	1.80	0.46
9:R:882:SER:O	9:R:885:LEU:HB2	2.15	0.46
9:R:931:GLU:HG2	9:R:967:PHE:HZ	1.79	0.46
10:S:507:TYR:OH	10:S:550:VAL:HB	2.16	0.46
10:S:671:GLN:CD	10:S:682:VAL:H	2.19	0.46
11:T:159:VAL:HG13	11:T:226:LEU:HD22	1.96	0.46
12:U:682:ALA:H	12:U:687:ASN:HD21	1.63	0.46
1:A:159:PRO:HA	1:A:162:ILE:HD12	1.98	0.46
1:A:243:THR:HB	1:A:247:GLN:HG3	1.98	0.46
1:A:542:PHE:HA	1:A:545:MET:HE3	1.97	0.46
2:B:117:GLU:CD	2:B:117:GLU:H	2.19	0.46
2:B:178:LEU:HD11	2:B:244:VAL:O	2.15	0.46
2:B:270:ASN:HB3	2:B:273:HIS:HD2	1.81	0.46
3:C:223:HIS:CE1	3:C:280:GLN:HB2	2.50	0.46
4:D:706:GLY:O	4:D:811:ARG:NH2	2.48	0.46
4:D:1180:ARG:HA	4:D:1183:GLU:OE2	2.15	0.46
6:F:382:LEU:HD23	6:F:382:LEU:HA	1.70	0.46
6:F:494:VAL:HG12	6:F:498:ILE:CG1	2.45	0.46
7:G:290:GLU:HB2	7:G:296:TRP:CE3	2.50	0.46
8:H:295:THR:O	8:H:299:ARG:HG3	2.15	0.46
9:I:78:PHE:HD2	9:I:460:MET:HE1	1.80	0.46
9:I:1125:GLU:HB2	9:I:1129:LYS:HZ1	1.79	0.46
4:M:448:LEU:HD11	4:M:535:TYR:CE1	2.50	0.46
4:M:766:GLN:HA	4:M:769:LEU:HD12	1.97	0.46
5:N:80:TRP:CZ3	5:N:93:LEU:HD12	2.50	0.46
5:N:307:ARG:HG3	5:N:308:LEU:HG	1.97	0.46
6:O:723:GLN:O	6:O:727:LYS:HG3	2.15	0.46
6:O:733:SER:HB2	6:O:742:GLU:OE2	2.15	0.46
7:P:22:ASP:OD2	7:P:26:ILE:HG12	2.15	0.46
7:P:178:TYR:O	7:P:180:LYS:NZ	2.41	0.46
7:P:179:ILE:HG22	7:P:196:GLU:HB3	1.98	0.46
8:Q:262:VAL:HG22	8:Q:445:LYS:HZ1	1.80	0.46
8:Q:298:GLN:NE2	8:Q:306:SER:OG	2.43	0.46
8:Q:564:LEU:O	8:Q:568:ILE:HG12	2.16	0.46
8:Q:575:LYS:CD	8:Q:576:GLN:H	2.27	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:644:HIS:HA	8:Q:843:LEU:HB2	1.96	0.46
9:R:344:ILE:N	9:R:363:VAL:O	2.42	0.46
9:R:583:LEU:HB3	9:R:640:LYS:HZ2	1.80	0.46
9:R:654:ILE:HD12	9:R:685:ILE:HD11	1.96	0.46
9:R:683:GLU:HA	9:R:686:PHE:CE2	2.50	0.46
10:S:387:ARG:O	10:S:391:LYS:HE2	2.15	0.46
10:S:844:ALA:HA	10:S:847:PHE:HD2	1.80	0.46
10:S:1063:VAL:O	10:S:1067:LEU:HG	2.16	0.46
10:S:1352:LEU:HD23	10:S:1386:GLY:HA3	1.98	0.46
11:T:360:VAL:HG21	11:T:371:VAL:HA	1.97	0.46
11:T:961:TYR:CE2	11:T:1002:PRO:HD2	2.50	0.46
1:A:515:THR:HB	2:B:106:ASN:CG	2.35	0.46
2:B:282:SER:HB2	2:B:284:TRP:CZ2	2.50	0.46
4:D:46:TYR:HB3	4:D:571:LEU:HB3	1.97	0.46
4:D:1095:LYS:NZ	6:F:903:ASP:HA	2.30	0.46
4:D:1257:GLU:OE2	4:D:1257:GLU:N	2.47	0.46
6:F:786:PRO:HA	6:F:789:CYS:SG	2.56	0.46
7:G:27:ARG:NH2	7:G:72:ASN:OD1	2.49	0.46
8:H:686:ILE:HD12	8:H:689:LYS:HB2	1.98	0.46
9:I:149:LEU:HB3	9:I:170:ALA:O	2.16	0.46
9:I:242:MET:CG	9:I:243:LEU:H	2.29	0.46
9:I:629:HIS:HA	9:I:632:LYS:NZ	2.30	0.46
1:J:160:LEU:O	1:J:164:LEU:HG	2.15	0.46
1:J:472:ALA:HB2	1:J:487:TRP:CB	2.46	0.46
2:K:149:ARG:HD2	2:K:165:ASP:HA	1.95	0.46
2:K:277:CYS:HB2	2:K:348:VAL:HG13	1.97	0.46
4:M:156:LEU:HD11	4:M:219:ALA:HB2	1.97	0.46
4:M:891:LEU:HD11	4:M:912:MET:HB2	1.96	0.46
4:M:1004:PHE:HZ	4:M:1036:LEU:HD12	1.81	0.46
4:M:1069:ALA:HB1	4:M:1080:TYR:CE2	2.50	0.46
6:O:685:HIS:CE1	7:P:166:SER:C	2.88	0.46
7:P:81:ARG:HD2	7:P:103:ASP:C	2.36	0.46
7:P:255:LYS:HZ1	7:P:295:GLN:HA	1.80	0.46
8:Q:452:VAL:HA	8:Q:455:GLU:OE2	2.15	0.46
9:R:765:ARG:O	9:R:769:ILE:HG12	2.16	0.46
9:R:990:GLU:OE2	9:R:991:THR:HG23	2.15	0.46
10:S:160:LEU:HB2	10:S:162:HIS:CE1	2.50	0.46
10:S:532:LYS:N	10:S:552:TRP:CZ3	2.80	0.46
10:S:684:ILE:HG12	10:S:700:LEU:HD21	1.97	0.46
10:S:1077:THR:O	10:S:1081:LEU:HG	2.15	0.46
10:S:1364:SER:O	10:S:1365:GLN:NE2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1642:GLY:O	10:S:1645:LEU:HG	2.15	0.46
11:T:36:GLY:O	11:T:444:PHE:HB3	2.14	0.46
11:T:152:PHE:HE1	11:T:211:LEU:HD23	1.81	0.46
12:U:648:SER:OG	12:U:649:PRO:HD3	2.15	0.46
12:U:655:SER:H	12:U:704:HIS:CD2	2.34	0.46
1:A:243:THR:HG21	1:A:251:GLU:CB	2.44	0.46
3:C:41:LYS:HG2	3:C:45:GLY:HA2	1.97	0.46
3:C:136:ASP:CG	3:C:138:VAL:HB	2.35	0.46
3:C:169:SER:OG	3:C:183:ALA:HB3	2.16	0.46
4:D:285:PRO:HA	4:D:303:CYS:HA	1.97	0.46
4:D:334:ILE:HG21	4:D:368:GLN:HE22	1.80	0.46
6:F:640:VAL:O	6:F:644:LEU:HG	2.16	0.46
6:F:906:LEU:O	6:F:910:ARG:HG3	2.15	0.46
7:G:87:LYS:HA	7:G:93:TRP:CZ3	2.50	0.46
8:H:355:ARG:NH2	8:H:359:ARG:HH21	2.14	0.46
8:H:416:ARG:NH2	8:H:432:VAL:HB	2.24	0.46
8:H:777:VAL:HG12	8:H:781:HIS:NE2	2.31	0.46
9:I:118:ILE:HG22	9:I:120:TRP:HE3	1.80	0.46
9:I:980:ALA:HA	9:I:983:GLU:OE2	2.16	0.46
1:J:411:HIS:CG	1:J:414:LEU:HD22	2.51	0.46
1:J:485:LEU:O	1:J:489:ILE:HG13	2.15	0.46
1:J:599:MET:O	1:J:600:ARG:C	2.53	0.46
3:L:62:ARG:HH22	3:L:116:VAL:C	2.19	0.46
4:M:832:PHE:O	4:M:836:PHE:N	2.28	0.46
4:M:890:GLN:HA	4:M:893:GLU:OE2	2.15	0.46
4:M:1114:LEU:HB3	4:M:1115:ARG:NH1	2.31	0.46
6:O:382:LEU:HD21	6:O:416:TRP:CZ2	2.51	0.46
7:P:82:LYS:HZ2	7:P:84:ILE:HD11	1.80	0.46
8:Q:265:LEU:O	8:Q:268:ILE:HB	2.15	0.46
9:R:70:THR:HG21	9:R:432:ILE:HG12	1.97	0.46
9:R:333:LEU:N	9:R:345:LEU:O	2.49	0.46
9:R:683:GLU:HA	9:R:686:PHE:CD2	2.50	0.46
9:R:767:HIS:CD2	9:R:789:LEU:HD21	2.31	0.46
9:R:992:LEU:HD23	9:R:1019:TYR:CZ	2.51	0.46
10:S:253:LEU:HD13	10:S:256:VAL:HG21	1.97	0.46
10:S:646:THR:HB	10:S:650:PHE:CZ	2.51	0.46
10:S:1338:PHE:HD1	10:S:1419:HIS:O	1.98	0.46
10:S:1498:LEU:HA	10:S:1501:ARG:HH12	1.81	0.46
11:T:677:LEU:HA	11:T:679:ASP:N	2.31	0.46
12:U:92:PRO:HB2	12:U:94:LYS:HG2	1.97	0.46
1:A:38:LEU:HD12	3:C:14:LEU:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:162:ARG:CZ	2:B:164:ILE:HA	2.45	0.46
4:D:163:ARG:NH1	4:D:243:MET:HG3	2.30	0.46
4:D:845:SER:HA	4:D:850:ARG:HH12	1.81	0.46
5:E:283:HIS:CE1	5:E:290:PRO:HB3	2.51	0.46
6:F:379:THR:OG1	6:F:633:LEU:HD21	2.08	0.46
7:G:87:LYS:HA	7:G:93:TRP:HZ3	1.81	0.46
7:G:116:PHE:CE1	7:G:178:TYR:HB3	2.51	0.46
8:H:536:HIS:CE1	8:H:537:LEU:HD12	2.51	0.46
8:H:765:PRO:HA	8:H:786:TYR:CG	2.51	0.46
9:I:888:TRP:CZ3	9:I:894:LYS:NZ	2.82	0.46
9:I:949:CYS:O	9:I:953:THR:HG23	2.15	0.46
9:I:1068:SER:HB2	9:I:1072:GLY:HA2	1.98	0.46
1:J:412:HIS:CE1	2:K:179:ARG:HB3	2.45	0.46
1:J:469:LYS:NZ	3:L:69:GLU:HG2	2.31	0.46
1:J:593:GLU:O	1:J:596:TYR:HB2	2.14	0.46
2:K:5:PHE:CE2	2:K:7:ALA:HB2	2.51	0.46
2:K:284:TRP:CD1	2:K:339:ASN:HA	2.50	0.46
4:M:72:LEU:HD23	4:M:136:SER:H	1.81	0.46
4:M:343:LYS:HB3	4:M:345:ARG:HH12	1.80	0.46
4:M:352:LEU:O	4:M:354:ILE:HG12	2.15	0.46
5:N:226:ALA:O	5:N:232:TRP:HA	2.15	0.46
8:Q:165:LEU:HG	8:Q:169:TYR:CE2	2.51	0.46
9:R:852:ASP:O	9:R:856:LEU:HG	2.15	0.46
10:S:320:TRP:HH2	10:S:329:VAL:HG21	1.81	0.46
10:S:847:PHE:HB3	10:S:912:GLU:HB3	1.98	0.46
10:S:1037:LEU:HD21	10:S:1060:CYS:HB2	1.98	0.46
11:T:288:VAL:HG11	11:T:349:LEU:HD21	1.97	0.46
11:T:722:MET:SD	11:T:813:PHE:HD1	2.38	0.46
12:U:224:LEU:HB2	12:U:461:TYR:CZ	2.51	0.46
1:A:110:ARG:NH2	1:A:111:ALA:HB2	2.31	0.46
2:B:10:VAL:H	2:B:366:ALA:HA	1.80	0.46
4:D:349:SER:CB	4:D:352:LEU:HB2	2.46	0.46
4:D:1242:PHE:CE2	4:D:1305:TYR:CG	3.04	0.46
4:D:1250:ILE:O	4:D:1254:GLN:HG2	2.16	0.46
5:E:17:ASP:O	5:E:317:ARG:HA	2.16	0.46
5:E:236:GLU:H	5:E:244:GLN:HG3	1.79	0.46
6:F:267:LYS:HE3	6:F:276:GLU:OE1	2.16	0.46
6:F:382:LEU:HD21	6:F:416:TRP:CZ2	2.51	0.46
8:H:218:TYR:HA	8:H:221:ARG:HD2	1.97	0.46
8:H:266:GLU:OE1	8:H:347:ALA:HA	2.16	0.46
9:I:1119:LYS:HD2	9:I:1125:GLU:OE1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:38:LEU:HD21	1:J:43:GLY:H	1.81	0.46
1:J:572:TRP:HA	1:J:575:LEU:HD13	1.97	0.46
2:K:187:ASN:OD1	2:K:193:LYS:HG3	2.16	0.46
2:K:267:HIS:HD1	2:K:270:ASN:N	2.13	0.46
2:K:277:CYS:HA	2:K:283:LEU:HD23	1.98	0.46
3:L:200:TYR:CZ	3:L:211:LYS:HD2	2.51	0.46
3:L:300:GLY:O	3:L:321:GLY:N	2.22	0.46
4:M:334:ILE:HG12	4:M:363:THR:OG1	2.15	0.46
4:M:911:PHE:CE2	4:M:933:ALA:HB1	2.51	0.46
4:M:1000:ARG:NH2	4:M:1019:ALA:HA	2.31	0.46
4:M:1382:TRP:CZ3	7:P:58:GLY:HA2	2.49	0.46
6:O:319:GLN:HA	6:O:322:LEU:HB3	1.97	0.46
8:Q:262:VAL:HG22	8:Q:445:LYS:NZ	2.31	0.46
8:Q:298:GLN:NE2	8:Q:299:ARG:HG3	2.31	0.46
8:Q:376:HIS:HE1	8:Q:378:ALA:HB2	1.81	0.46
9:R:945:THR:HA	9:R:951:LYS:HE3	1.97	0.46
10:S:563:HIS:CE1	10:S:567:ARG:HG3	2.50	0.46
10:S:817:LEU:O	10:S:821:GLU:OE1	2.33	0.46
10:S:1068:CYS:HA	10:S:1074:SER:HB3	1.97	0.46
10:S:1177:ARG:H	10:S:1182:ARG:NH2	2.14	0.46
11:T:501:LEU:HD21	11:T:515:GLY:HA3	1.96	0.46
11:T:946:GLN:OE1	11:T:946:GLN:N	2.44	0.46
12:U:650:VAL:O	12:U:653:GLN:HG2	2.15	0.46
12:U:805:SER:HB2	12:U:808:THR:OG1	2.15	0.46
1:A:11:THR:O	3:C:325:PRO:HG2	2.15	0.46
1:A:408:LEU:HA	1:A:414:LEU:CD2	2.46	0.46
1:A:653:GLU:HG3	4:D:1047:GLN:CD	2.36	0.46
2:B:132:THR:H	2:B:145:GLY:HA2	1.81	0.46
3:C:19:SER:HB2	3:C:63:VAL:HG13	1.98	0.46
3:C:277:HIS:CA	3:C:303:ARG:HE	2.28	0.46
3:C:285:SER:O	3:C:293:LEU:HD12	2.15	0.46
4:D:112:LEU:HB2	4:D:137:ILE:HD12	1.98	0.46
5:E:146:ASP:N	5:E:146:ASP:OD1	2.49	0.46
6:F:359:VAL:HG21	6:F:380:TRP:NE1	2.30	0.46
6:F:478:VAL:O	6:F:481:LEU:HB2	2.15	0.46
7:G:97:TYR:CG	7:G:98:GLU:N	2.83	0.46
7:G:106:VAL:HA	7:G:124:SER:HB2	1.97	0.46
8:H:262:VAL:HG22	8:H:445:LYS:NZ	2.31	0.46
8:H:609:ARG:HB2	8:H:668:TRP:CH2	2.51	0.46
9:I:364:THR:HB	9:I:377:THR:CG2	2.45	0.46
9:I:628:GLU:HG2	9:I:750:TRP:HD1	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:988:HIS:O	9:I:1019:TYR:OH	2.34	0.46
2:K:54:GLY:HA2	2:K:63:GLN:HE22	1.81	0.46
2:K:268:PRO:HG2	2:K:355:GLY:N	2.25	0.46
4:M:363:THR:HG22	4:M:365:ARG:H	1.81	0.46
4:M:509:ILE:HD11	4:M:531:TRP:CH2	2.51	0.46
4:M:829:ARG:HA	4:M:832:PHE:CD2	2.51	0.46
5:N:305:HIS:HB3	5:N:308:LEU:O	2.16	0.46
6:O:334:VAL:HG11	6:O:719:CYS:HB2	1.97	0.46
6:O:693:GLU:CB	6:O:697:ARG:HH12	2.29	0.46
6:O:707:SER:HA	6:O:710:LYS:NZ	2.30	0.46
7:P:39:ILE:HG22	7:P:50:ILE:HG13	1.98	0.46
8:Q:185:LYS:HE3	8:Q:186:ARG:HE	1.80	0.46
8:Q:355:ARG:NH2	8:Q:359:ARG:HH21	2.14	0.46
9:R:1099:LEU:HB2	9:R:1136:MET:HG3	1.97	0.46
10:S:760:GLU:OE2	10:S:841:LYS:HB2	2.15	0.46
10:S:765:VAL:O	10:S:769:LEU:HD23	2.16	0.46
10:S:1395:LEU:O	10:S:1398:ILE:HG22	2.16	0.46
10:S:1611:PRO:HG3	10:S:1614:ARG:HH22	1.81	0.46
11:T:249:MET:HA	11:T:252:LEU:HA	1.97	0.46
11:T:717:ASP:OD1	11:T:718:THR:N	2.49	0.46
12:U:495:LEU:O	12:U:499:GLU:HG3	2.16	0.46
1:A:67:VAL:HA	1:A:70:LYS:HE2	1.97	0.46
1:A:206:ARG:HB3	1:A:209:GLU:OE2	2.16	0.46
1:A:302:TRP:CZ2	1:A:347:LEU:HD11	2.51	0.46
1:A:439:ARG:HD2	1:A:439:ARG:HA	1.76	0.46
1:A:453:ARG:NE	1:A:456:GLU:OE2	2.46	0.46
2:B:3:ASP:HB2	2:B:372:ARG:HB3	1.97	0.46
2:B:120:HIS:CE1	2:B:149:ARG:HB2	2.51	0.46
4:D:329:PRO:HD2	11:T:115:LYS:HZ3	1.80	0.46
4:D:770:SER:O	4:D:774:ILE:HG23	2.16	0.46
4:D:774:ILE:HG13	4:D:775:ARG:N	2.31	0.46
4:D:974:LEU:HD22	5:E:275:LYS:HZ2	1.80	0.46
4:D:1128:LEU:O	4:D:1131:LEU:HB2	2.16	0.46
4:D:1309:ILE:O	4:D:1313:LEU:HG	2.15	0.46
5:E:50:ARG:O	5:E:61:ILE:HA	2.15	0.46
5:E:192:PHE:CD2	5:E:202:LEU:HB3	2.51	0.46
6:F:328:GLU:HG2	6:F:355:TYR:CZ	2.48	0.46
6:F:539:LEU:O	6:F:545:PRO:HA	2.16	0.46
6:F:673:TRP:HA	6:F:676:PHE:CD2	2.50	0.46
7:G:95:LYS:HZ1	7:G:98:GLU:HG2	1.81	0.46
8:H:214:ILE:O	8:H:218:TYR:HD2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:240:SER:O	8:H:243:THR:OG1	2.27	0.46
8:H:581:ALA:HA	8:H:584:VAL:HG12	1.96	0.46
9:I:75:VAL:HG22	9:I:463:VAL:HG22	1.98	0.46
9:I:986:LEU:HA	9:I:989:GLN:NE2	2.31	0.46
9:I:1109:LEU:O	9:I:1115:LEU:HD22	2.16	0.46
1:J:531:ASP:O	1:J:534:THR:HB	2.16	0.46
1:J:599:MET:SD	1:J:600:ARG:CZ	3.04	0.46
4:M:529:GLU:HG2	9:R:77:LEU:H	1.81	0.46
4:M:1306:HIS:O	4:M:1310:ILE:HG12	2.16	0.46
4:M:1326:ASN:HA	4:M:1329:LYS:HG2	1.98	0.46
4:M:1335:GLU:O	4:M:1338:ARG:HD3	2.16	0.46
5:N:80:TRP:HZ3	5:N:93:LEU:HB3	1.81	0.46
5:N:121:GLU:HB2	5:N:152:TRP:CH2	2.51	0.46
5:N:212:MET:HE2	5:N:254:ALA:O	2.16	0.46
6:O:706:GLU:HG3	6:O:710:LYS:NZ	2.30	0.46
6:O:811:MET:CE	6:O:828:LEU:HD13	2.46	0.46
7:P:35:ARG:NH2	7:P:59:PRO:HA	2.31	0.46
7:P:65:TRP:HA	7:P:74:LEU:HD23	1.97	0.46
7:P:132:LEU:HD13	7:P:142:VAL:HG12	1.98	0.46
8:Q:295:THR:O	8:Q:299:ARG:HG3	2.15	0.46
8:Q:358:LYS:HZ1	12:U:31:ARG:CA	2.29	0.46
8:Q:375:TYR:HB2	8:Q:395:ARG:HH12	1.80	0.46
8:Q:545:LEU:HD23	8:Q:548:PHE:HD2	1.81	0.46
8:Q:737:GLU:O	8:Q:741:ILE:HD12	2.15	0.46
9:R:120:TRP:HA	9:R:132:VAL:O	2.16	0.46
9:R:838:GLY:HA2	9:R:840:TYR:CZ	2.50	0.46
10:S:732:TYR:HA	10:S:735:PHE:HB3	1.97	0.46
10:S:736:LEU:HD12	10:S:737:ARG:N	2.30	0.46
10:S:884:ASN:HD21	10:S:891:ASP:H	1.64	0.46
10:S:1301:PRO:HB2	10:S:1304:HIS:ND1	2.31	0.46
10:S:1754:GLN:O	10:S:1758:ASN:HB2	2.15	0.46
11:T:255:ASP:HB3	11:T:322:LEU:HD23	1.98	0.46
12:U:207:ASP:O	12:U:211:GLU:OE1	2.33	0.46
12:U:362:ARG:N	12:U:362:ARG:HD2	2.30	0.46
12:U:470:THR:HB	12:U:472:GLN:HE22	1.81	0.46
1:A:40:GLN:HG3	3:C:282:TRP:CE2	2.52	0.46
1:A:150:LEU:HD22	1:A:151:PHE:CE2	2.51	0.46
1:A:500:ILE:HG22	1:A:504:PHE:CZ	2.51	0.46
1:A:550:GLN:O	1:A:554:ALA:HB2	2.15	0.46
3:C:229:PRO:HB2	3:C:290:GLY:HA3	1.98	0.46
3:C:314:LYS:O	3:C:316:ILE:HD12	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:49:LEU:HD13	4:D:717:ALA:HB2	1.98	0.46
4:D:722:SER:O	4:D:726:PHE:HB2	2.15	0.46
4:D:906:VAL:HG22	4:D:939:ARG:NH2	2.31	0.46
4:D:1420:GLN:HE22	4:D:1421:LYS:HG2	1.80	0.46
5:E:143:VAL:HG13	5:E:171:VAL:HB	1.98	0.46
5:E:191:ARG:HD2	5:E:191:ARG:HA	1.64	0.46
7:G:22:ASP:OD1	7:G:22:ASP:N	2.41	0.46
7:G:39:ILE:O	7:G:50:ILE:N	2.48	0.46
7:G:201:TRP:C	7:G:202:LYS:HD3	2.37	0.46
7:G:230:ILE:HB	7:G:242:TRP:HB2	1.98	0.46
8:H:128:LEU:O	8:H:132:MET:HB2	2.15	0.46
9:I:876:PHE:HA	9:I:879:GLN:HG2	1.97	0.46
1:J:15:GLY:HA2	1:J:18:GLN:HB2	1.97	0.46
1:J:133:GLN:HA	1:J:136:ILE:HG12	1.98	0.46
1:J:451:ALA:HA	1:J:454:ILE:HD12	1.98	0.46
4:M:360:TYR:CE1	4:M:367:GLY:HA3	2.51	0.46
4:M:415:ASP:N	4:M:415:ASP:OD1	2.48	0.46
4:M:477:LYS:HA	4:M:480:GLN:HG2	1.98	0.46
4:M:1055:VAL:C	4:M:1057:LEU:H	2.19	0.46
4:M:1238:LEU:HB3	4:M:1242:PHE:HE2	1.81	0.46
5:N:232:TRP:HB3	5:N:269:THR:HG21	1.97	0.46
7:P:104:SER:N	7:P:126:ASP:OD1	2.49	0.46
8:Q:214:ILE:HG12	8:Q:510:VAL:HG21	1.98	0.46
8:Q:338:LEU:HB3	8:Q:414:TYR:CD1	2.51	0.46
8:Q:486:GLU:O	8:Q:490:THR:HG23	2.16	0.46
8:Q:819:TRP:C	8:Q:821:VAL:N	2.69	0.46
9:R:396:GLN:HB3	9:R:410:TYR:CE1	2.51	0.46
9:R:951:LYS:HD2	9:R:1009:VAL:HG21	1.98	0.46
10:S:663:SER:O	10:S:667:THR:HG23	2.16	0.46
10:S:1587:TYR:O	10:S:1615:TYR:OH	2.23	0.46
10:S:1666:LEU:HD13	10:S:1748:MET:SD	2.55	0.46
10:S:1850:ILE:HG22	10:S:1870:LYS:HB3	1.97	0.46
11:T:804:GLY:HA2	11:T:807:ILE:HD12	1.98	0.46
12:U:23:VAL:HG23	12:U:24:THR:HG23	1.97	0.46
12:U:235:PRO:HD2	12:U:235:PRO:O	2.16	0.46
1:A:322:LEU:HD23	1:A:325:TYR:HE2	1.80	0.45
2:B:47:VAL:HG21	2:B:103:HIS:CE1	2.51	0.45
4:D:922:GLU:OE1	4:D:922:GLU:N	2.49	0.45
4:D:1040:LEU:HD13	4:D:1046:LEU:HD13	1.98	0.45
6:F:295:LYS:HE2	6:F:302:PHE:H	1.80	0.45
8:H:265:LEU:O	8:H:268:ILE:HB	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:445:LYS:N	8:H:445:LYS:HD2	2.32	0.45
8:H:753:GLU:O	8:H:756:LYS:HG2	2.15	0.45
9:I:610:LEU:HB3	9:I:622:THR:OG1	2.16	0.45
9:I:821:MET:SD	9:I:822:GLU:N	2.89	0.45
9:I:847:ALA:HB3	9:I:856:LEU:HD21	1.98	0.45
9:I:931:GLU:HB2	9:I:932:LYS:HZ2	1.80	0.45
9:I:995:LYS:H	9:I:1026:ARG:NH2	2.14	0.45
1:J:408:LEU:HB3	1:J:414:LEU:O	2.15	0.45
1:J:588:VAL:H	1:J:643:ARG:HH12	1.64	0.45
4:M:226:GLU:HG2	4:M:245:PRO:HG3	1.98	0.45
4:M:1285:ASP:O	4:M:1289:ARG:HG2	2.16	0.45
5:N:5:SER:OG	5:N:293:ILE:HB	2.16	0.45
8:Q:890:ASN:O	8:Q:894:LYS:HG3	2.15	0.45
9:R:121:LYS:HB3	9:R:131:MET:HB3	1.97	0.45
9:R:544:ASP:HB2	9:R:613:CYS:HB3	1.99	0.45
9:R:642:HIS:CE1	9:R:717:ILE:HG13	2.51	0.45
9:R:856:LEU:HD22	9:R:872:TYR:CE2	2.51	0.45
10:S:1302:THR:O	10:S:1306:GLN:HG2	2.15	0.45
11:T:144:HIS:O	11:T:249:MET:HE3	2.16	0.45
12:U:336:GLN:NE2	12:U:354:GLN:OE1	2.25	0.45
12:U:515:SER:CA	12:U:525:ARG:HH21	2.29	0.45
12:U:579:ARG:CZ	12:U:581:PHE:HZ	2.29	0.45
12:U:747:SER:O	12:U:750:LEU:HG	2.16	0.45
1:A:16:LEU:HB3	1:A:20:ASN:HA	1.99	0.45
1:A:356:HIS:ND1	1:A:387:ALA:O	2.45	0.45
1:A:565:ARG:NH2	1:A:605:ARG:HH12	2.13	0.45
1:A:627:ASN:O	1:A:630:VAL:N	2.49	0.45
3:C:26:ARG:NH2	3:C:40:ASP:HB3	2.30	0.45
3:C:61:TRP:HE3	3:C:77:CYS:SG	2.39	0.45
4:D:95:LEU:HD23	4:D:700:ASN:H	1.81	0.45
4:D:143:HIS:NE2	4:D:218:THR:HA	2.31	0.45
4:D:275:ILE:HG13	4:D:276:ARG:HG2	1.97	0.45
4:D:950:GLU:HB2	4:D:967:ARG:HH22	1.80	0.45
4:D:1143:GLN:O	4:D:1174:ILE:HG13	2.16	0.45
5:E:22:VAL:CG2	5:E:36:LEU:HD21	2.46	0.45
6:F:292:THR:HB	7:G:47:GLN:NE2	2.32	0.45
6:F:344:ARG:NE	6:F:682:GLN:OE1	2.49	0.45
6:F:671:TRP:HB3	6:F:698:HIS:CD2	2.51	0.45
6:F:804:ASP:O	6:F:808:VAL:HG23	2.17	0.45
6:F:858:LYS:CD	6:F:859:ARG:HH21	2.30	0.45
7:G:54:ARG:HG3	7:G:55:GLY:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:822:GLU:C	9:I:826:LYS:HZ2	2.19	0.45
3:L:208:LYS:HD3	3:L:209:TYR:N	2.32	0.45
4:M:515:ASP:OD1	9:R:60:ARG:NE	2.47	0.45
4:M:601:ASP:OD1	4:M:669:ARG:NH2	2.48	0.45
4:M:1267:LEU:HD13	4:M:1286:GLU:OE2	2.17	0.45
6:O:359:VAL:HG21	6:O:380:TRP:NE1	2.30	0.45
6:O:753:ASN:O	6:O:756:HIS:HB3	2.16	0.45
7:P:115:ASP:HB2	7:P:178:TYR:CE2	2.51	0.45
8:Q:416:ARG:NH1	8:Q:428:GLN:O	2.50	0.45
8:Q:718:TRP:O	8:Q:721:GLN:HG2	2.16	0.45
10:S:886:ARG:NH2	10:S:887:SER:HB3	2.32	0.45
10:S:908:GLU:HG2	10:S:909:LEU:HG	1.98	0.45
10:S:1424:LEU:HD23	10:S:1498:LEU:HD13	1.99	0.45
10:S:1604:THR:HG21	10:S:1614:ARG:HH22	1.81	0.45
10:S:1688:LEU:HD11	10:S:1707:ILE:HG13	1.97	0.45
12:U:130:ARG:O	12:U:134:LEU:HG	2.16	0.45
12:U:172:ALA:O	12:U:543:THR:HA	2.17	0.45
12:U:795:THR:O	12:U:799:MET:HG3	2.15	0.45
1:A:97:GLN:HA	1:A:100:GLN:CD	2.36	0.45
1:A:544:ARG:O	1:A:548:GLN:OE1	2.35	0.45
2:B:194:LEU:O	2:B:205:THR:HB	2.16	0.45
2:B:267:HIS:NE2	2:B:373:LEU:HD12	2.32	0.45
3:C:59:SER:H	3:C:79:PHE:HD2	1.65	0.45
6:F:779:PHE:O	6:F:782:GLU:HG3	2.16	0.45
7:G:249:THR:HA	12:U:458:GLN:O	2.16	0.45
7:G:287:LEU:HD12	7:G:300:SER:HB3	1.99	0.45
8:H:376:HIS:HE1	8:H:378:ALA:HB2	1.81	0.45
9:I:841:ALA:O	9:I:844:SER:OG	2.30	0.45
1:J:305:PHE:HE2	1:J:332:MET:HB2	1.82	0.45
4:M:165:ILE:HB	4:M:194:ASN:HD21	1.81	0.45
4:M:399:ASP:OD1	4:M:400:PHE:N	2.48	0.45
4:M:938:GLU:OE2	4:M:958:ARG:NE	2.49	0.45
4:M:938:GLU:HB2	4:M:939:ARG:HH11	1.81	0.45
4:M:1115:ARG:HG2	10:S:478:GLY:O	2.17	0.45
4:M:1217:LEU:O	4:M:1220:GLN:HG3	2.15	0.45
7:P:83:VAL:HG23	7:P:102:HIS:CE1	2.52	0.45
7:P:269:TRP:HB3	7:P:273:ALA:HA	1.99	0.45
8:Q:295:THR:O	8:Q:298:GLN:HG3	2.16	0.45
8:Q:494:ARG:HA	8:Q:497:GLU:OE2	2.17	0.45
8:Q:689:LYS:NZ	8:Q:836:GLN:HE22	2.15	0.45
10:S:276:LEU:HD22	10:S:392:LEU:HD11	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:591:LEU:O	10:S:595:ILE:HG12	2.17	0.45
10:S:858:ASN:OD1	10:S:859:ARG:N	2.43	0.45
10:S:1416:VAL:HA	10:S:1419:HIS:CD2	2.51	0.45
10:S:1434:PRO:O	10:S:1450:ARG:NH1	2.47	0.45
10:S:1620:LEU:HG	10:S:1624:GLN:OE1	2.16	0.45
11:T:897:HIS:O	11:T:902:ASN:ND2	2.34	0.45
12:U:47:THR:O	12:U:50:ARG:HB2	2.17	0.45
12:U:224:LEU:HD22	12:U:461:TYR:CE1	2.51	0.45
12:U:715:ILE:HG13	12:U:721:VAL:HG13	1.97	0.45
1:A:195:TRP:O	1:A:199:THR:HG23	2.16	0.45
1:A:375:LEU:O	1:A:379:LEU:HG	2.15	0.45
1:A:453:ARG:HB3	1:A:457:GLN:HE22	1.80	0.45
1:A:541:GLU:O	1:A:544:ARG:HD3	2.16	0.45
2:B:285:HIS:NE2	2:B:287:ASP:OD2	2.49	0.45
3:C:42:SER:OG	3:C:46:ASN:N	2.49	0.45
3:C:246:ARG:HD3	3:C:273:GLN:HE22	1.80	0.45
4:D:132:ILE:HD12	4:D:137:ILE:HD11	1.98	0.45
4:D:150:ASN:HB3	4:D:165:ILE:HG23	1.98	0.45
4:D:445:ASP:O	4:D:469:ARG:NH2	2.50	0.45
4:D:553:VAL:HG22	4:D:560:VAL:HG22	1.97	0.45
4:D:1143:GLN:HG3	4:D:1175:GLU:HB2	1.99	0.45
5:E:9:ALA:HB2	5:E:320:PHE:HB3	1.99	0.45
6:F:266:ASP:HB3	6:F:270:GLU:OE1	2.17	0.45
6:F:634:SER:O	6:F:638:TRP:CE3	2.69	0.45
7:G:84:ILE:HG23	7:G:98:GLU:HG3	1.99	0.45
8:H:214:ILE:HG13	8:H:215:ALA:N	2.32	0.45
8:H:370:GLU:HA	8:H:373:LYS:HZ3	1.82	0.45
8:H:416:ARG:NH1	8:H:428:GLN:O	2.50	0.45
8:H:479:THR:HG23	8:H:482:SER:H	1.82	0.45
8:H:678:GLU:HA	8:H:681:LYS:HE2	1.97	0.45
1:J:70:LYS:HA	2:K:245:ARG:NH2	2.29	0.45
1:J:570:SER:HA	1:J:620:LYS:NZ	2.31	0.45
2:K:210:VAL:HG23	2:K:214:ARG:HG3	1.99	0.45
3:L:277:HIS:HA	3:L:303:ARG:HH22	1.82	0.45
4:M:547:ARG:HG2	9:R:134:LYS:HD2	1.99	0.45
4:M:1118:GLN:OE1	4:M:1193:LEU:HD21	2.17	0.45
5:N:34:SER:HB2	5:N:305:HIS:HE2	1.82	0.45
5:N:192:PHE:O	5:N:200:ALA:HA	2.15	0.45
6:O:449:ARG:NH2	6:O:452:ASP:HB2	2.31	0.45
6:O:538:HIS:CE1	6:O:556:TYR:CD1	3.03	0.45
7:P:85:ILE:HG22	7:P:96:THR:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:P:97:TYR:CG	7:P:98:GLU:N	2.85	0.45
8:Q:707:PRO:HG2	8:Q:710:SER:HB2	1.98	0.45
9:R:832:SER:O	9:R:836:ILE:HG23	2.17	0.45
9:R:838:GLY:HA2	9:R:840:TYR:CE1	2.52	0.45
9:R:948:PHE:O	9:R:952:LYS:HG2	2.16	0.45
10:S:16:PRO:HB3	10:S:46:TYR:CE1	2.51	0.45
10:S:389:ILE:O	10:S:393:VAL:HG23	2.16	0.45
10:S:974:THR:HA	10:S:977:ARG:CD	2.46	0.45
10:S:1004:LEU:HB3	10:S:1006:TYR:CE2	2.52	0.45
10:S:1341:THR:HG23	10:S:1426:TYR:CD2	2.45	0.45
10:S:1437:PRO:HA	10:S:1883:ASN:HD21	1.82	0.45
10:S:1779:CYS:HA	10:S:1905:ARG:NH1	2.32	0.45
11:T:891:TRP:CD1	11:T:926:LEU:HD23	2.51	0.45
11:T:901:LEU:HD12	11:T:902:ASN:HB3	1.98	0.45
12:U:692:LEU:O	12:U:696:LEU:HG	2.16	0.45
12:U:728:VAL:O	12:U:732:VAL:HG23	2.17	0.45
1:A:35:TYR:CE1	1:A:54:MET:HA	2.51	0.45
2:B:120:HIS:HE1	2:B:149:ARG:O	1.99	0.45
4:D:160:THR:HG22	4:D:203:VAL:HA	1.98	0.45
4:D:536:THR:O	4:D:540:GLN:HG2	2.16	0.45
4:D:974:LEU:HB3	4:D:977:LEU:HD23	1.99	0.45
6:F:614:ASP:C	6:F:616:CYS:N	2.70	0.45
7:G:113:PRO:HB2	7:G:161:SER:HB3	1.98	0.45
8:H:122:PHE:CE2	8:H:126:ILE:HD11	2.52	0.45
8:H:434:GLU:O	8:H:494:ARG:HG3	2.16	0.45
8:H:486:GLU:O	8:H:490:THR:HG23	2.17	0.45
8:H:691:LEU:HD13	8:H:696:HIS:ND1	2.31	0.45
9:I:718:LEU:O	9:I:721:MET:HG2	2.17	0.45
1:J:33:LEU:HD22	1:J:54:MET:SD	2.57	0.45
1:J:369:TRP:HE3	1:J:372:VAL:HG21	1.81	0.45
4:M:59:ARG:HE	4:M:60:ASN:H	1.64	0.45
4:M:325:LEU:HA	4:M:328:VAL:HG22	1.98	0.45
4:M:482:LEU:HG	4:M:508:GLU:HG3	1.99	0.45
4:M:526:ILE:HD11	9:R:60:ARG:NH2	2.32	0.45
4:M:1317:GLY:N	10:S:719:ASN:HD21	2.14	0.45
5:N:67:LYS:HZ2	5:N:69:PHE:HB2	1.82	0.45
6:O:322:LEU:HD22	6:O:323:LEU:HD22	1.98	0.45
6:O:358:TRP:CE3	6:O:361:ASN:HB2	2.52	0.45
6:O:539:LEU:O	6:O:545:PRO:HA	2.16	0.45
6:O:840:GLU:N	6:O:840:GLU:OE1	2.50	0.45
8:Q:268:ILE:O	8:Q:272:GLU:HG3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:538:LEU:O	8:Q:542:THR:OG1	2.28	0.45
8:Q:678:GLU:HB3	8:Q:682:GLN:HE22	1.81	0.45
8:Q:680:LEU:HD11	8:Q:738:HIS:HB2	1.98	0.45
8:Q:700:LYS:HE3	8:Q:701:GLU:HG2	1.98	0.45
9:R:210:SER:CB	9:R:222:ARG:HE	2.30	0.45
9:R:332:TYR:HD2	9:R:346:SER:HG	1.64	0.45
9:R:623:ARG:HA	9:R:626:LEU:HD12	1.97	0.45
10:S:457:ALA:HB1	10:S:517:LEU:HD13	1.99	0.45
10:S:623:PRO:HA	10:S:626:VAL:HB	1.99	0.45
10:S:832:PRO:HA	10:S:836:LYS:HE3	1.99	0.45
10:S:1107:MET:HE1	10:S:1277:LYS:HD2	1.97	0.45
11:T:466:GLN:HG2	11:T:527:PRO:HG3	1.99	0.45
12:U:87:PHE:CE1	12:U:91:GLU:HG3	2.52	0.45
12:U:326:CYS:HB3	12:U:335:ALA:HB2	1.97	0.45
1:A:106:ARG:NH1	1:A:148:GLU:OE1	2.49	0.45
1:A:175:VAL:O	1:A:179:VAL:HG23	2.17	0.45
1:A:224:ALA:HA	1:A:227:MET:HG3	1.99	0.45
1:A:331:ASP:O	1:A:334:LEU:HG	2.17	0.45
2:B:8:LYS:HB2	2:B:367:ILE:CG2	2.45	0.45
2:B:267:HIS:HB3	2:B:270:ASN:O	2.15	0.45
2:B:270:ASN:OD1	2:B:374:PHE:HE2	2.00	0.45
2:B:296:THR:N	2:B:308:SER:HA	2.30	0.45
4:D:1380:LEU:HB3	6:F:246:PHE:CD1	2.51	0.45
5:E:85:ARG:HB2	5:E:92:LEU:H	1.81	0.45
5:E:192:PHE:HD2	5:E:202:LEU:HB3	1.81	0.45
6:F:387:TRP:CG	6:F:644:LEU:CD1	3.00	0.45
6:F:391:LYS:HD2	6:F:394:GLU:OE1	2.17	0.45
6:F:756:HIS:O	6:F:760:THR:HG23	2.16	0.45
6:F:801:VAL:HG12	6:F:805:TYR:HE2	1.81	0.45
7:G:139:PRO:HG2	7:G:141:GLU:OE2	2.16	0.45
8:H:268:ILE:O	8:H:272:GLU:HG3	2.16	0.45
8:H:624:ALA:O	8:H:628:LYS:HG2	2.17	0.45
9:I:658:LEU:HD23	9:I:661:ARG:HH22	1.82	0.45
9:I:873:MET:HG2	9:I:885:LEU:HD11	1.99	0.45
1:J:103:ARG:NH1	1:J:148:GLU:OE2	2.50	0.45
1:J:486:SER:HB3	2:K:25:SER:OG	2.16	0.45
1:J:587:GLN:HA	1:J:643:ARG:NH2	2.31	0.45
2:K:8:LYS:HE2	2:K:48:TRP:HZ3	1.82	0.45
3:L:223:HIS:ND1	3:L:242:THR:O	2.49	0.45
3:L:248:PHE:HA	3:L:269:HIS:O	2.16	0.45
4:M:545:LEU:HB3	4:M:564:ARG:NH2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:619:TYR:CD1	4:M:657:ILE:HG21	2.52	0.45
4:M:646:LEU:HD11	4:M:738:LEU:HB2	1.99	0.45
4:M:679:LEU:O	4:M:682:MET:HB3	2.16	0.45
4:M:1195:LEU:HB3	4:M:1202:THR:OG1	2.17	0.45
4:M:1278:THR:HG22	4:M:1280:GLU:HB3	1.99	0.45
4:M:1413:ARG:HB3	4:M:1414:LYS:NZ	2.32	0.45
5:N:290:PRO:HB2	5:N:293:ILE:HD11	1.99	0.45
6:O:775:TYR:HB3	6:O:779:PHE:CZ	2.52	0.45
7:P:192:LYS:HB2	7:P:194:TRP:CZ2	2.52	0.45
7:P:223:ILE:HG13	7:P:272:THR:HA	1.98	0.45
8:Q:266:GLU:OE1	8:Q:347:ALA:HA	2.16	0.45
8:Q:502:HIS:CE1	8:Q:525:TRP:NE1	2.85	0.45
8:Q:757:HIS:CD2	8:Q:797:LEU:HB2	2.52	0.45
9:R:278:THR:OG1	9:R:285:ASN:HB2	2.15	0.45
9:R:491:VAL:HG13	9:R:523:GLY:HA2	1.98	0.45
9:R:496:ARG:HB2	9:R:507:LYS:HB3	1.97	0.45
9:R:978:GLU:OE1	9:R:979:ILE:HG13	2.16	0.45
10:S:294:LEU:O	10:S:298:ALA:HB2	2.17	0.45
10:S:552:TRP:O	10:S:556:PHE:HB2	2.17	0.45
10:S:624:VAL:HG23	10:S:625:VAL:N	2.31	0.45
10:S:626:VAL:O	10:S:630:LEU:HG	2.17	0.45
10:S:691:ILE:HG23	10:S:694:ARG:HH21	1.81	0.45
10:S:775:PRO:HB2	10:S:859:ARG:HH11	1.81	0.45
10:S:1594:ASP:HB2	10:S:1599:PHE:HD2	1.81	0.45
11:T:273:GLN:NE2	11:T:379:SER:HB3	2.32	0.45
12:U:442:GLN:HB3	12:U:446:PHE:CE2	2.51	0.45
12:U:445:LEU:O	12:U:449:TYR:HB3	2.15	0.45
1:A:206:ARG:HA	1:A:206:ARG:NE	2.31	0.45
1:A:264:GLU:CD	1:A:286:LEU:HD22	2.37	0.45
2:B:8:LYS:HG3	2:B:61:GLU:CD	2.38	0.45
2:B:37:SER:OG	2:B:44:LYS:O	2.34	0.45
2:B:298:LEU:HD12	2:B:337:ILE:O	2.17	0.45
2:B:372:ARG:HH22	2:B:374:PHE:HD2	1.63	0.45
3:C:194:MET:HB3	3:C:216:MET:HA	1.98	0.45
4:D:228:LEU:HG	4:D:242:LYS:HG2	1.98	0.45
4:D:476:GLN:HG2	4:D:490:LEU:HA	1.98	0.45
4:D:506:GLU:OE1	5:E:241:SER:OG	2.25	0.45
6:F:297:LEU:HD22	6:F:301:PRO:HG3	1.99	0.45
6:F:334:VAL:HG13	6:F:343:PHE:HE1	1.81	0.45
6:F:343:PHE:O	6:F:680:HIS:HA	2.16	0.45
6:F:358:TRP:CE3	6:F:361:ASN:HB2	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:435:GLU:CD	6:F:435:GLU:H	2.20	0.45
6:F:871:GLN:HG3	6:F:872:GLN:NE2	2.32	0.45
9:I:84:VAL:HG23	9:I:87:MET:SD	2.57	0.45
9:I:826:LYS:O	9:I:830:LEU:HG	2.17	0.45
9:I:930:PHE:HB2	9:I:965:SER:HA	1.98	0.45
1:J:476:LEU:O	1:J:479:ARG:HD2	2.16	0.45
2:K:107:ASN:OD1	2:K:109:THR:HG22	2.17	0.45
4:M:310:MET:HE3	4:M:319:LEU:HB2	1.98	0.45
4:M:444:PRO:HA	4:M:469:ARG:HB2	1.98	0.45
4:M:685:GLU:HB3	4:M:870:TRP:CD2	2.52	0.45
4:M:895:VAL:HG23	4:M:909:CYS:HB3	1.98	0.45
4:M:1394:ALA:O	4:M:1397:GLU:HG2	2.16	0.45
5:N:67:LYS:NZ	5:N:69:PHE:HB2	2.32	0.45
6:O:811:MET:HE1	6:O:828:LEU:HD13	1.99	0.45
7:P:88:GLU:HA	7:P:93:TRP:HA	1.99	0.45
8:Q:659:ASP:O	8:Q:663:ILE:HG13	2.16	0.45
8:Q:721:GLN:HG3	8:Q:723:MET:H	1.81	0.45
10:S:443:ILE:HB	10:S:513:MET:HE3	1.98	0.45
10:S:1140:LEU:CD1	10:S:1180:ILE:HB	2.45	0.45
10:S:1293:THR:HB	10:S:1343:HIS:CE1	2.51	0.45
10:S:1396:HIS:O	10:S:1399:LEU:HG	2.16	0.45
10:S:1967:ALA:HB2	10:S:2007:ARG:HH12	1.82	0.45
11:T:80:VAL:HG13	11:T:96:VAL:HG13	1.99	0.45
11:T:654:LYS:O	11:T:658:THR:HG23	2.17	0.45
12:U:334:ALA:O	12:U:338:VAL:HG23	2.17	0.45
12:U:790:ALA:HB1	12:U:816:GLU:HG2	1.99	0.45
1:A:279:GLU:HB2	1:A:283:ARG:HH12	1.81	0.45
1:A:302:TRP:HB3	1:A:333:PHE:CG	2.52	0.45
2:B:14:ILE:O	2:B:349:ASN:HB2	2.17	0.45
3:C:114:THR:HG21	3:C:136:ASP:HB3	1.99	0.45
4:D:445:ASP:O	4:D:535:TYR:OH	2.21	0.45
4:D:1058:HIS:CE1	6:F:910:ARG:CZ	3.00	0.45
5:E:217:CYS:HB3	5:E:220:ASN:O	2.17	0.45
6:F:538:HIS:CE1	6:F:556:TYR:CD1	3.03	0.45
6:F:638:TRP:O	6:F:642:GLN:HG2	2.16	0.45
7:G:82:LYS:HZ2	7:G:99:TYR:N	2.14	0.45
7:G:88:GLU:HB2	7:G:93:TRP:CE2	2.51	0.45
7:G:195:ARG:NH1	7:G:197:GLU:HG2	2.32	0.45
8:H:355:ARG:NH2	8:H:358:LYS:HZ2	2.13	0.45
8:H:436:TRP:CD2	8:H:504:HIS:HD2	2.30	0.45
8:H:577:ILE:HD12	8:H:612:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:134:LYS:HZ3	9:I:136:LEU:HG	1.82	0.45
9:I:168:MET:HE1	9:I:178:TYR:HB2	1.97	0.45
9:I:181:ASN:ND2	9:I:183:LEU:O	2.45	0.45
9:I:658:LEU:HD11	9:I:671:ALA:HB1	1.98	0.45
9:I:845:ASN:O	9:I:848:GLU:HG3	2.17	0.45
1:J:69:ARG:HH21	2:K:246:HIS:CE1	2.35	0.45
1:J:438:GLU:CD	1:J:463:GLN:HE22	2.17	0.45
4:M:397:LEU:HD21	4:M:400:PHE:CD1	2.51	0.45
4:M:1025:ASP:OD2	4:M:1028:ARG:HG2	2.17	0.45
4:M:1068:ARG:O	4:M:1072:VAL:HG13	2.17	0.45
4:M:1127:CYS:O	4:M:1131:LEU:HG	2.16	0.45
4:M:1324:LEU:HA	4:M:1327:ARG:HG2	1.99	0.45
4:M:1339:LEU:HA	4:M:1339:LEU:HD13	1.67	0.45
6:O:494:VAL:HG12	6:O:498:ILE:CG1	2.45	0.45
8:Q:479:THR:HG23	8:Q:482:SER:H	1.82	0.45
8:Q:745:LEU:O	8:Q:749:GLU:OE1	2.35	0.45
8:Q:809:TYR:HE1	8:Q:852:LEU:HD21	1.82	0.45
8:Q:852:LEU:CG	8:Q:868:LEU:CD1	2.92	0.45
9:R:76:GLN:HG3	9:R:466:ARG:NH2	2.32	0.45
9:R:290:ASP:HB3	9:R:293:SER:OG	2.17	0.45
9:R:560:ALA:HA	9:R:565:TRP:C	2.38	0.45
9:R:745:PRO:HB2	9:R:815:ARG:CZ	2.47	0.45
10:S:390:HIS:CD2	10:S:391:LYS:HD3	2.44	0.45
10:S:908:GLU:O	10:S:911:PHE:N	2.49	0.45
10:S:979:MET:O	10:S:982:ILE:HB	2.17	0.45
10:S:1091:GLN:NE2	10:S:1092:LEU:HG	2.32	0.45
10:S:1258:ASN:O	10:S:1262:GLN:OE1	2.34	0.45
10:S:1349:ARG:HH12	10:S:1429:GLN:HG2	1.82	0.45
10:S:1536:ARG:O	10:S:1539:LEU:HG	2.17	0.45
10:S:1837:GLY:O	10:S:1840:GLN:HG2	2.16	0.45
10:S:1965:GLU:HA	10:S:1968:ASN:ND2	2.31	0.45
11:T:758:ASP:HA	11:T:761:LEU:HG	1.99	0.45
12:U:181:VAL:HG12	12:U:185:TYR:CE2	2.51	0.45
12:U:218:ASP:OD1	12:U:221:VAL:HB	2.17	0.45
1:A:540:ARG:HH21	1:A:544:ARG:N	2.15	0.45
2:B:31:ASP:O	2:B:49:ALA:HA	2.16	0.45
2:B:137:SER:O	2:B:140:GLU:HG2	2.17	0.45
2:B:347:SER:OG	2:B:363:ASP:OD2	2.35	0.45
3:C:120:LYS:O	3:C:130:LEU:HG	2.17	0.45
4:D:433:GLY:H	11:T:112:GLY:C	2.20	0.45
4:D:829:ARG:HA	4:D:832:PHE:CD2	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:1140:TRP:HB2	4:D:1176:ILE:HG22	1.97	0.45
5:E:22:VAL:HG23	5:E:36:LEU:HD21	1.98	0.45
6:F:387:TRP:CG	6:F:644:LEU:HD13	2.51	0.45
6:F:577:TYR:CE1	6:F:622:SER:O	2.70	0.45
6:F:759:VAL:HG21	6:F:779:PHE:CE2	2.52	0.45
7:G:157:SER:HB3	7:G:183:VAL:CG2	2.47	0.45
8:H:643:ALA:HB3	8:H:694:LYS:HZ3	1.82	0.45
8:H:770:GLN:HE21	8:H:779:HIS:CG	2.35	0.45
8:H:853:HIS:O	8:H:857:HIS:HB2	2.17	0.45
9:I:620:VAL:HG13	9:I:747:HIS:ND1	2.32	0.45
9:I:827:ARG:NH2	5:N:2:LYS:HD3	2.30	0.45
1:J:106:ARG:CZ	1:J:144:TRP:HD1	2.29	0.45
1:J:328:SER:HB3	1:J:332:MET:HE1	1.98	0.45
1:J:388:HIS:HA	1:J:391:TYR:OH	2.17	0.45
1:J:545:MET:HE1	1:J:557:LEU:HB3	1.99	0.45
1:J:552:SER:HA	1:J:590:PHE:CE1	2.52	0.45
2:K:20:ARG:H	2:K:33:PHE:HA	1.81	0.45
4:M:633:CYS:HB3	5:N:165:ARG:HH12	1.82	0.45
4:M:656:ASN:HB3	4:M:659:GLU:HB2	1.99	0.45
4:M:911:PHE:HE2	4:M:943:LEU:HD13	1.81	0.45
4:M:1113:THR:HB	10:S:478:GLY:C	2.37	0.45
5:N:222:LEU:HD12	5:N:237:MET:O	2.17	0.45
6:O:500:GLU:OE1	6:O:503:LEU:HD13	2.17	0.45
6:O:610:GLU:HG3	6:O:612:GLN:H	1.82	0.45
7:P:269:TRP:HA	7:P:275:ILE:O	2.17	0.45
8:Q:445:LYS:HD2	8:Q:445:LYS:N	2.32	0.45
8:Q:501:GLU:HB2	8:Q:504:HIS:ND1	2.32	0.45
8:Q:863:LYS:O	8:Q:867:ARG:CG	2.61	0.45
9:R:512:ALA:HA	9:R:527:MET:HE1	1.99	0.45
9:R:643:HIS:NE2	9:R:654:ILE:HG13	2.32	0.45
9:R:972:LEU:HD23	9:R:975:LYS:HZ1	1.82	0.45
10:S:273:MET:SD	10:S:385:PHE:HA	2.57	0.45
10:S:379:PHE:O	10:S:385:PHE:HD2	1.99	0.45
10:S:540:GLU:OE2	10:S:541:ASN:ND2	2.50	0.45
10:S:740:VAL:O	10:S:743:ARG:N	2.50	0.45
10:S:1178:ARG:HG3	10:S:1180:ILE:HG22	1.98	0.45
10:S:1753:GLN:HE22	10:S:1888:LEU:C	2.16	0.45
10:S:1796:GLN:O	10:S:1798:SER:N	2.39	0.45
11:T:700:TYR:OH	11:T:818:HIS:HA	2.16	0.45
11:T:920:ILE:O	11:T:924:LEU:HG	2.17	0.45
12:U:476:ALA:O	12:U:479:PHE:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:528:ASN:HB3	12:U:531:ARG:HB3	1.98	0.45
12:U:642:LEU:O	12:U:646:LEU:HG	2.16	0.45
2:B:195:TRP:HB3	2:B:200:GLN:NE2	2.30	0.45
3:C:138:VAL:HG12	3:C:140:ARG:HH11	1.82	0.45
4:D:629:GLU:HG2	4:D:772:TYR:CE2	2.52	0.45
6:F:765:ALA:HA	6:F:768:VAL:HG12	1.99	0.45
9:I:107:GLY:HA2	9:I:447:CYS:SG	2.57	0.45
9:I:464:VAL:HB	9:I:465:ALA:H	1.61	0.45
1:J:63:ILE:HD12	1:J:72:PHE:HD2	1.81	0.45
1:J:107:SER:O	1:J:110:ARG:NH1	2.50	0.45
1:J:355:ILE:HD12	1:J:385:PHE:CD1	2.52	0.45
2:K:194:LEU:O	2:K:205:THR:HB	2.16	0.45
2:K:334:GLN:OE1	2:K:334:GLN:N	2.46	0.45
3:L:229:PRO:HG2	3:L:289:THR:C	2.37	0.45
4:M:228:LEU:HD22	4:M:242:LYS:HG2	1.99	0.45
4:M:649:LEU:O	4:M:653:ASP:HB2	2.17	0.45
4:M:840:PHE:CE1	4:M:850:ARG:HD3	2.52	0.45
5:N:150:ARG:HD3	5:N:152:TRP:HZ2	1.82	0.45
6:O:435:GLU:H	6:O:435:GLU:CD	2.20	0.45
6:O:494:VAL:HA	6:O:497:TYR:CD2	2.52	0.45
6:O:809:ILE:HD12	6:O:812:LEU:HD23	1.99	0.45
7:P:288:TRP:CE2	7:P:298:CYS:HB2	2.53	0.45
9:R:618:MET:CE	9:R:748:VAL:H	2.30	0.45
9:R:1029:GLU:HG2	9:R:1088:VAL:HG22	1.99	0.45
10:S:410:ARG:HA	10:S:413:GLU:HG3	1.98	0.45
10:S:805:HIS:CE1	10:S:810:SER:HA	2.52	0.45
10:S:1538:LEU:O	10:S:1543:PRO:HB3	2.17	0.45
11:T:308:ASP:OD1	11:T:309:ARG:N	2.50	0.45
12:U:145:LEU:O	12:U:148:LEU:HG	2.17	0.45
12:U:516:GLN:OE1	12:U:525:ARG:HD2	2.17	0.45
1:A:525:SER:O	1:A:528:LEU:HG	2.17	0.44
4:D:494:TRP:HZ2	4:D:781:LEU:HD13	1.82	0.44
4:D:1055:VAL:O	4:D:1057:LEU:HG	2.18	0.44
4:D:1302:ASN:HB2	4:D:1304:LEU:CD1	2.47	0.44
4:D:1329:LYS:HE2	4:D:1329:LYS:HB3	1.88	0.44
5:E:17:ASP:HA	5:E:317:ARG:CZ	2.47	0.44
6:F:251:PHE:CD1	7:G:304:LYS:HG2	2.52	0.44
6:F:571:CYS:HB3	6:F:583:PHE:CZ	2.53	0.44
6:F:650:SER:O	6:F:654:GLN:HG3	2.16	0.44
6:F:916:TYR:CE2	11:T:993:ILE:HG12	2.52	0.44
8:H:276:PHE:HD2	8:H:344:LEU:HD21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:355:ARG:HH22	8:H:359:ARG:HH21	1.63	0.44
8:H:660:ARG:NH2	8:H:664:ASP:OD2	2.50	0.44
8:H:710:SER:O	8:H:714:ILE:HG13	2.18	0.44
9:I:466:ARG:C	9:I:466:ARG:CD	2.86	0.44
9:I:627:SER:HB2	9:I:736:TYR:CG	2.52	0.44
9:I:823:TYR:HA	9:I:826:LYS:HG2	1.98	0.44
9:I:1110:LEU:HD12	9:I:1119:LYS:HZ3	1.83	0.44
1:J:487:TRP:CG	1:J:490:ARG:NH2	2.86	0.44
2:K:18:ARG:NE	2:K:82:GLN:OE1	2.50	0.44
4:M:1097:GLY:O	4:M:1127:CYS:HB3	2.17	0.44
4:M:1180:ARG:HA	4:M:1183:GLU:OE1	2.17	0.44
4:M:1194:THR:HA	4:M:1197:LYS:CE	2.47	0.44
4:M:1247:CYS:CB	4:M:1251:ARG:HH21	2.30	0.44
5:N:146:ASP:O	5:N:148:THR:HG23	2.17	0.44
7:P:189:ASN:OD1	7:P:213:TRP:HD1	2.00	0.44
8:Q:880:TYR:O	8:Q:880:TYR:CG	2.70	0.44
9:R:818:ILE:HD13	9:R:821:MET:CE	2.46	0.44
10:S:328:THR:HA	10:S:365:VAL:HG21	1.99	0.44
10:S:379:PHE:CE1	10:S:385:PHE:HB3	2.52	0.44
10:S:1229:LEU:HA	10:S:1232:ARG:NE	2.31	0.44
10:S:1753:GLN:NE2	10:S:1891:LEU:HB2	2.32	0.44
10:S:1757:SER:OG	10:S:1895:ILE:HD11	2.17	0.44
11:T:508:LEU:HG	11:T:512:ILE:HD11	1.99	0.44
1:A:48:ALA:HA	3:C:9:ALA:O	2.17	0.44
1:A:517:LEU:CD1	1:A:540:ARG:HD3	2.47	0.44
6:F:382:LEU:HD12	6:F:601:CYS:HG	1.76	0.44
6:F:494:VAL:HA	6:F:497:TYR:CD2	2.52	0.44
6:F:723:GLN:HG3	6:F:724:TRP:N	2.33	0.44
6:F:841:LEU:HD22	8:Q:472:GLU:HG2	1.98	0.44
7:G:124:SER:C	7:G:126:ASP:H	2.21	0.44
7:G:211:SER:H	7:G:238:ARG:NH2	2.13	0.44
9:I:649:LEU:O	9:I:692:LYS:NZ	2.45	0.44
9:I:683:GLU:HA	9:I:686:PHE:CE2	2.52	0.44
9:I:693:GLU:OE2	9:I:714:VAL:HG21	2.18	0.44
9:I:855:ILE:O	9:I:859:ILE:HG12	2.17	0.44
1:J:639:ARG:NH2	4:M:1088:ILE:O	2.50	0.44
4:M:777:GLY:HA2	4:M:819:ILE:HD11	1.99	0.44
4:M:1325:ILE:O	4:M:1329:LYS:HG2	2.17	0.44
4:M:1347:GLU:O	4:M:1350:ALA:HB3	2.17	0.44
5:N:103:LYS:NZ	5:N:121:GLU:HA	2.33	0.44
6:O:391:LYS:HD2	6:O:394:GLU:OE1	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:560:PHE:HB3	6:O:570:ALA:C	2.38	0.44
6:O:685:HIS:ND1	6:O:686:VAL:N	2.59	0.44
7:P:39:ILE:H	7:P:49:LEU:HD11	1.81	0.44
7:P:65:TRP:HA	7:P:73:ILE:O	2.17	0.44
7:P:74:LEU:HG	7:P:93:TRP:CH2	2.51	0.44
8:Q:126:ILE:HD12	12:U:160:GLN:HG2	2.00	0.44
8:Q:165:LEU:HD23	8:Q:547:PHE:CE1	2.53	0.44
8:Q:355:ARG:HH22	8:Q:359:ARG:HH21	1.63	0.44
8:Q:627:THR:O	8:Q:631:VAL:HG23	2.16	0.44
8:Q:812:LEU:HD23	8:Q:812:LEU:HA	1.81	0.44
10:S:386:ILE:H	10:S:386:ILE:HD12	1.82	0.44
10:S:502:LEU:HB3	10:S:547:GLY:O	2.17	0.44
10:S:813:LEU:O	10:S:817:LEU:HG	2.16	0.44
11:T:252:LEU:O	11:T:253:ARG:NH1	2.47	0.44
12:U:209:CYS:HA	12:U:212:ALA:HB3	1.97	0.44
12:U:411:THR:O	12:U:414:TYR:HB3	2.17	0.44
12:U:811:ARG:HE	12:U:814:GLN:HE21	1.64	0.44
1:A:36:GLU:O	3:C:15:ILE:HD11	2.16	0.44
1:A:68:LEU:O	1:A:72:PHE:HD2	2.00	0.44
1:A:97:GLN:HG3	1:A:100:GLN:HE22	1.82	0.44
1:A:106:ARG:CZ	1:A:144:TRP:CD1	3.01	0.44
1:A:227:MET:HB3	1:A:278:MET:SD	2.57	0.44
1:A:356:HIS:O	1:A:360:LYS:HG3	2.16	0.44
1:A:434:LYS:HD3	1:A:467:ILE:HD11	1.98	0.44
2:B:186:VAL:HG11	2:B:232:THR:OG1	2.17	0.44
3:C:22:PHE:HB3	3:C:67:HIS:CE1	2.52	0.44
3:C:296:SER:HA	3:C:301:THR:O	2.17	0.44
4:D:1353:VAL:HA	4:D:1356:TYR:CD2	2.52	0.44
5:E:236:GLU:HB3	5:E:239:ARG:NH2	2.33	0.44
6:F:295:LYS:HD2	7:G:11:SER:N	2.32	0.44
6:F:531:TRP:CE2	6:F:599:ASP:OD2	2.71	0.44
6:F:574:LEU:HB3	6:F:578:LEU:HD23	2.00	0.44
7:G:18:ASP:HB2	7:G:31:CYS:SG	2.57	0.44
7:G:100:THR:HG22	7:G:101:GLY:N	2.32	0.44
8:H:628:LYS:HZ2	8:H:678:GLU:HB3	1.82	0.44
8:H:637:LYS:HZ3	8:H:658:GLU:HG3	1.83	0.44
1:J:567:ALA:HB1	1:J:571:PHE:HB2	1.99	0.44
1:J:580:LEU:O	1:J:583:LEU:HB2	2.17	0.44
3:L:25:ARG:HB3	3:L:26:ARG:NH2	2.25	0.44
4:M:79:TYR:HE2	4:M:158:ASN:ND2	2.15	0.44
4:M:682:MET:SD	4:M:725:ARG:NH2	2.90	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:681:ILE:O	6:O:687:ARG:HD3	2.18	0.44
6:O:751:GLN:HE21	6:O:754:GLN:CD	2.20	0.44
6:O:815:ILE:HD12	6:O:828:LEU:HD22	1.98	0.44
7:P:181:ARG:HH11	7:P:181:ARG:HG3	1.83	0.44
7:P:198:ASP:HB2	7:P:202:LYS:HE3	1.99	0.44
7:P:242:TRP:CZ3	7:P:254:PRO:HD3	2.52	0.44
8:Q:610:GLN:NE2	8:Q:611:ARG:HG2	2.33	0.44
9:R:126:SER:H	9:R:129:LYS:NZ	2.15	0.44
9:R:343:VAL:HA	9:R:364:THR:HA	1.99	0.44
9:R:580:SER:O	9:R:640:LYS:HD2	2.16	0.44
9:R:685:ILE:HA	9:R:688:CYS:HB2	1.99	0.44
10:S:136:TRP:CH2	10:S:221:ILE:HG12	2.52	0.44
10:S:435:ASP:HA	10:S:438:HIS:ND1	2.32	0.44
10:S:1666:LEU:HD21	10:S:1747:ASP:OD2	2.16	0.44
12:U:31:ARG:HH22	12:U:35:GLU:HG3	1.82	0.44
12:U:640:LEU:O	12:U:643:THR:HG22	2.17	0.44
12:U:660:ASN:HA	12:U:663:ARG:HG2	1.99	0.44
1:A:207:MET:HB2	1:A:235:LEU:HB3	1.99	0.44
2:B:6:ALA:HA	2:B:62:TYR:CZ	2.52	0.44
2:B:181:THR:C	2:B:197:LEU:HD13	2.37	0.44
3:C:129:MET:CE	3:C:143:GLU:HG2	2.48	0.44
4:D:259:GLN:N	4:D:265:ARG:HH21	2.15	0.44
4:D:1180:ARG:CZ	4:D:1183:GLU:HG3	2.47	0.44
8:H:232:PHE:CG	8:H:232:PHE:O	2.70	0.44
9:I:524:ALA:HB1	9:I:600:PHE:HE1	1.82	0.44
1:J:478:ASN:HB2	1:J:480:ARG:HG2	1.99	0.44
1:J:545:MET:CE	1:J:554:ALA:HA	2.47	0.44
1:J:627:ASN:O	1:J:631:GLU:OE1	2.35	0.44
1:J:653:GLU:HG3	4:M:1044:SER:HB2	1.98	0.44
3:L:222:VAL:HA	3:L:242:THR:CG2	2.45	0.44
4:M:163:ARG:NH2	4:M:200:ASN:OD1	2.50	0.44
4:M:220:TRP:CE2	4:M:228:LEU:HB2	2.53	0.44
4:M:229:PHE:O	4:M:240:VAL:HA	2.18	0.44
4:M:529:GLU:OE2	9:R:76:GLN:NE2	2.50	0.44
4:M:911:PHE:CZ	4:M:933:ALA:HB1	2.53	0.44
4:M:944:GLU:HA	4:M:947:ILE:HG12	1.99	0.44
4:M:1228:ILE:HG23	4:M:1298:TYR:OH	2.17	0.44
5:N:147:HIS:ND1	5:N:164:LEU:O	2.51	0.44
6:O:259:TRP:CZ2	7:P:274:ASN:N	2.85	0.44
7:P:286:THR:HG1	7:P:288:TRP:HE1	1.65	0.44
8:Q:493:LYS:HA	8:Q:496:LEU:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:558:GLU:HA	8:Q:561:VAL:HG22	2.00	0.44
8:Q:621:LEU:HD12	8:Q:621:LEU:HA	1.79	0.44
8:Q:718:TRP:NE1	8:Q:724:ASP:HA	2.32	0.44
9:R:504:ASP:OD1	9:R:508:HIS:NE2	2.50	0.44
9:R:860:CYS:O	9:R:864:ASP:HA	2.17	0.44
9:R:1051:GLU:OE2	9:R:1104:PRO:HD3	2.18	0.44
10:S:998:ASN:O	10:S:1001:MET:HE2	2.17	0.44
10:S:1131:SER:HB3	10:S:1135:ARG:NH1	2.26	0.44
10:S:1190:SER:HB3	10:S:1192:GLU:HG2	2.00	0.44
10:S:1387:PHE:CE2	10:S:1457:VAL:HG11	2.53	0.44
10:S:1653:ASP:N	10:S:1653:ASP:OD1	2.51	0.44
10:S:1828:TYR:HA	10:S:1831:ILE:CG2	2.48	0.44
11:T:945:VAL:O	11:T:948:GLN:HB2	2.17	0.44
11:T:949:GLU:OE2	11:T:990:ARG:NH1	2.51	0.44
1:A:69:ARG:HH22	2:B:244:VAL:HA	1.82	0.44
3:C:21:ASP:HA	3:C:65:TRP:CE3	2.53	0.44
3:C:122:ALA:HB1	3:C:126:MET:SD	2.58	0.44
3:C:187:ASP:O	3:C:221:PRO:HB3	2.17	0.44
3:C:277:HIS:HA	3:C:303:ARG:NH2	2.30	0.44
3:C:308:ASN:ND2	3:C:310:MET:H	2.16	0.44
4:D:651:ALA:HA	11:T:557:GLY:HA2	2.00	0.44
5:E:91:PRO:HD2	5:E:110:ASP:O	2.17	0.44
6:F:324:PRO:O	6:F:328:GLU:HG2	2.16	0.44
8:H:177:ILE:HG23	8:H:181:LYS:NZ	2.32	0.44
9:I:1077:ILE:HD13	9:I:1131:ASN:OD1	2.16	0.44
4:M:1073:ASP:HB2	4:M:1151:GLU:HB3	1.99	0.44
4:M:1285:ASP:HA	4:M:1288:TRP:CD1	2.53	0.44
5:N:38:TYR:CZ	5:N:45:VAL:HB	2.51	0.44
5:N:123:HIS:HD2	5:N:150:ARG:HD2	1.82	0.44
6:O:343:PHE:CG	6:O:679:LEU:HB2	2.52	0.44
7:P:67:HIS:CG	7:P:68:PRO:HD2	2.52	0.44
8:Q:416:ARG:NH2	8:Q:432:VAL:HB	2.24	0.44
8:Q:451:LEU:O	8:Q:455:GLU:OE1	2.35	0.44
8:Q:576:GLN:HG3	8:Q:579:LEU:HG	1.99	0.44
8:Q:603:ILE:HG23	8:Q:608:GLN:HG2	1.99	0.44
8:Q:749:GLU:HA	8:Q:752:ASN:ND2	2.33	0.44
9:R:61:VAL:HB	9:R:76:GLN:NE2	2.31	0.44
9:R:246:ILE:H	9:R:259:PRO:HG2	1.80	0.44
9:R:572:GLU:H	9:R:668:ASN:HB3	1.82	0.44
9:R:1014:GLN:NE2	9:R:1018:LEU:HD21	2.33	0.44
10:S:862:ASP:HA	10:S:865:ARG:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:583:GLU:C	11:T:587:LYS:HZ2	2.20	0.44
12:U:21:GLU:O	12:U:28:HIS:NE2	2.51	0.44
12:U:34:GLN:O	12:U:37:GLN:HB2	2.18	0.44
12:U:359:ASN:O	12:U:362:ARG:NH1	2.49	0.44
1:A:237:LYS:HB3	1:A:259:TRP:CD1	2.53	0.44
1:A:348:LEU:O	1:A:351:PHE:N	2.51	0.44
1:A:400:LEU:O	1:A:404:TYR:HB2	2.18	0.44
2:B:17:THR:N	2:B:350:SER:OG	2.50	0.44
2:B:35:THR:O	2:B:45:VAL:HA	2.17	0.44
3:C:67:HIS:O	3:C:70:PHE:HB2	2.16	0.44
3:C:120:LYS:HD2	3:C:121:PHE:O	2.17	0.44
3:C:236:HIS:ND1	3:C:237:ILE:N	2.66	0.44
3:C:253:LEU:HD12	3:C:254:ARG:N	2.32	0.44
4:D:432:ALA:N	11:T:110:ASP:O	2.51	0.44
4:D:1312:LYS:O	4:D:1316:HIS:ND1	2.51	0.44
5:E:207:VAL:HG22	5:E:243:PRO:HG2	1.99	0.44
6:F:255:TRP:CD2	7:G:270:SER:HB2	2.52	0.44
6:F:295:LYS:HZ1	6:F:302:PHE:HB2	1.83	0.44
6:F:600:VAL:HG23	6:F:623:SER:HG	1.72	0.44
6:F:651:GLY:HA2	6:F:654:GLN:OE1	2.18	0.44
6:F:834:SER:O	6:F:837:LYS:N	2.44	0.44
7:G:65:TRP:HA	7:G:73:ILE:O	2.17	0.44
8:H:718:TRP:CD2	8:H:727:LEU:HG	2.52	0.44
8:H:755:PHE:HA	8:H:758:ILE:HG12	1.98	0.44
9:I:767:HIS:CD2	9:I:789:LEU:HD21	2.52	0.44
9:I:1076:PRO:HB2	9:I:1131:ASN:OD1	2.17	0.44
1:J:196:ASP:OD1	1:J:298:LEU:HD11	2.17	0.44
2:K:240:CYS:HA	2:K:252:SER:O	2.17	0.44
3:L:228:ALA:N	3:L:236:HIS:CE1	2.86	0.44
4:M:242:LYS:HB2	4:M:253:THR:OG1	2.18	0.44
4:M:1143:GLN:HG3	4:M:1175:GLU:H	1.82	0.44
5:N:22:VAL:HG23	5:N:38:TYR:HB3	1.98	0.44
6:O:571:CYS:HB3	6:O:583:PHE:CZ	2.52	0.44
6:O:800:LYS:HA	6:O:803:LEU:HB3	1.98	0.44
8:Q:151:LEU:HD23	8:Q:154:PHE:CD2	2.53	0.44
8:Q:364:TRP:CH2	8:Q:365:ARG:HD2	2.52	0.44
8:Q:606:PRO:O	8:Q:610:GLN:HG3	2.17	0.44
9:R:642:HIS:HA	9:R:645:LYS:HE2	1.99	0.44
9:R:1044:ASP:N	9:R:1047:GLU:OE1	2.51	0.44
10:S:937:ASP:HB3	10:S:940:VAL:HG23	1.98	0.44
10:S:942:GLN:O	10:S:945:MET:HG2	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1341:THR:HG21	10:S:1423:SER:CA	2.46	0.44
10:S:1578:ILE:HB	10:S:1643:GLN:HB3	2.00	0.44
10:S:1758:ASN:C	10:S:1758:ASN:HD22	2.21	0.44
11:T:159:VAL:HG11	11:T:223:VAL:HG11	2.00	0.44
12:U:210:THR:HG22	12:U:214:GLU:OE2	2.18	0.44
1:A:72:PHE:O	1:A:75:SER:OG	2.29	0.44
1:A:95:LYS:HE2	1:A:153:GLU:HA	1.99	0.44
1:A:121:GLU:C	1:A:124:ARG:HH22	2.21	0.44
3:C:65:TRP:HA	3:C:74:LEU:HG	1.99	0.44
4:D:344:LEU:HD23	4:D:359:VAL:HG13	1.98	0.44
4:D:996:GLN:O	4:D:999:LEU:HG	2.17	0.44
6:F:576:PRO:CD	6:F:624:ALA:CB	2.94	0.44
7:G:69:MET:H	7:G:69:MET:HE3	1.82	0.44
8:H:730:GLU:HG2	8:H:731:ASP:N	2.33	0.44
9:I:652:SER:HB2	9:I:692:LYS:NZ	2.33	0.44
9:I:690:VAL:O	9:I:694:GLU:OE1	2.36	0.44
1:J:641:LEU:O	1:J:645:ILE:HG12	2.18	0.44
2:K:286:TRP:HE1	2:K:337:ILE:HG23	1.82	0.44
2:K:358:LEU:HB3	2:K:370:THR:OG1	2.18	0.44
3:L:303:ARG:HD2	3:L:318:VAL:HG22	2.00	0.44
4:M:850:ARG:HH21	4:M:853:ASN:HB2	1.82	0.44
4:M:1112:ARG:HH22	4:M:1204:ALA:HA	1.82	0.44
4:M:1402:GLN:HG3	4:M:1405:GLN:NE2	2.33	0.44
8:Q:532:LEU:HD23	8:Q:532:LEU:H	1.82	0.44
8:Q:581:ALA:HB3	8:Q:619:ALA:HB3	1.99	0.44
8:Q:589:GLN:O	8:Q:593:ILE:HG12	2.18	0.44
9:R:302:MET:CE	9:R:306:LEU:HD12	2.47	0.44
9:R:689:LEU:HD12	9:R:714:VAL:HG13	1.99	0.44
10:S:628:LEU:O	10:S:632:GLN:HG2	2.18	0.44
10:S:808:ASN:ND2	10:S:872:ILE:O	2.42	0.44
10:S:1320:ILE:HD11	10:S:1329:LEU:CD1	2.44	0.44
10:S:1400:ARG:CZ	10:S:1468:ILE:HG13	2.47	0.44
10:S:1668:SER:HA	10:S:1671:GLU:OE1	2.17	0.44
11:T:512:ILE:HG13	11:T:543:LEU:HD11	1.99	0.44
12:U:310:GLN:HB2	12:U:385:ASP:HB2	2.00	0.44
12:U:584:LEU:O	12:U:599:ILE:HG12	2.18	0.44
1:A:52:PRO:O	3:C:47:TRP:NE1	2.51	0.44
1:A:480:ARG:HH11	2:B:86:LYS:CE	2.30	0.44
2:B:66:PRO:C	2:B:67:LYS:HD3	2.38	0.44
4:D:402:PHE:HA	4:D:408:ASN:O	2.18	0.44
4:D:749:GLY:HA3	11:T:364:ARG:NE	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:813:THR:HG21	4:D:821:GLU:OE1	2.18	0.44
4:D:910:HIS:CB	4:D:933:ALA:HB2	2.46	0.44
5:E:14:ASP:HA	5:E:318:LYS:HD3	1.99	0.44
6:F:575:PRO:CG	6:F:597:GLN:OE1	2.56	0.44
6:F:805:TYR:O	6:F:809:ILE:HG13	2.18	0.44
6:F:924:SER:HA	11:T:982:ARG:HH21	1.82	0.44
8:H:548:PHE:O	8:H:553:LEU:N	2.48	0.44
9:I:143:SER:HB2	9:I:145:TRP:CZ2	2.53	0.44
1:J:94:ARG:O	1:J:98:LEU:HG	2.18	0.44
1:J:480:ARG:HH21	3:L:98:ARG:HH22	1.66	0.44
1:J:587:GLN:OE1	1:J:643:ARG:NH2	2.49	0.44
2:K:183:ILE:HG23	2:K:197:LEU:HD11	1.99	0.44
3:L:106:ARG:CZ	3:L:150:LEU:HB2	2.48	0.44
4:M:810:ARG:NH2	4:M:825:GLU:OE1	2.51	0.44
4:M:937:VAL:HG11	4:M:961:TYR:OH	2.18	0.44
4:M:1070:ARG:HD3	4:M:1148:ALA:O	2.18	0.44
4:M:1351:GLU:O	4:M:1355:GLU:OE1	2.36	0.44
6:O:353:HIS:NE2	6:O:389:GLN:O	2.51	0.44
6:O:528:GLN:NE2	6:O:533:ARG:HH12	2.16	0.44
6:O:843:GLN:CB	6:O:853:GLN:HB2	2.47	0.44
8:Q:340:TYR:O	8:Q:343:THR:OG1	2.35	0.44
8:Q:628:LYS:O	8:Q:632:GLU:OE1	2.36	0.44
8:Q:629:THR:HA	8:Q:632:GLU:OE2	2.17	0.44
8:Q:745:LEU:O	8:Q:748:HIS:HB3	2.17	0.44
9:R:222:ARG:NE	9:R:234:ARG:HH21	2.16	0.44
9:R:916:HIS:NE2	9:R:918:HIS:HB3	2.32	0.44
10:S:457:ALA:HA	10:S:460:TYR:CD2	2.51	0.44
10:S:704:PHE:O	10:S:707:LEU:HB3	2.18	0.44
10:S:767:TYR:HE1	10:S:852:LEU:HD13	1.83	0.44
10:S:837:LYS:HA	10:S:840:GLU:OE1	2.18	0.44
10:S:952:LEU:O	10:S:955:GLU:HG2	2.18	0.44
10:S:1281:LEU:HG	10:S:1285:ARG:HH12	1.82	0.44
10:S:1334:ALA:HB1	10:S:1419:HIS:HB2	2.00	0.44
10:S:1730:LEU:HD22	10:S:1748:MET:HG2	2.00	0.44
11:T:204:ALA:O	11:T:209:ARG:N	2.51	0.44
11:T:692:TYR:HD1	11:T:781:ILE:HA	1.81	0.44
12:U:363:ARG:HH21	12:U:397:ARG:HG3	1.83	0.44
12:U:502:LEU:O	12:U:503:LEU:HB2	2.18	0.44
1:A:426:PRO:HB2	1:A:430:ARG:HH11	1.83	0.44
1:A:500:ILE:HG22	1:A:504:PHE:CE1	2.52	0.44
2:B:244:VAL:HG13	2:B:247:GLY:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:606:ILE:HD12	4:D:678:LEU:CD2	2.48	0.44
4:D:819:ILE:HG21	4:D:890:GLN:HG2	1.99	0.44
4:D:973:GLY:N	5:E:275:LYS:HZ1	2.16	0.44
5:E:11:TYR:HB2	5:E:321:PHE:CD2	2.53	0.44
6:F:428:GLU:OE2	6:F:528:GLN:NE2	2.51	0.44
6:F:438:ILE:HG12	6:F:502:ARG:CD	2.48	0.44
6:F:725:ILE:O	6:F:729:LYS:HG2	2.18	0.44
8:H:621:LEU:HB3	8:H:626:ILE:HD11	2.00	0.44
8:H:662:LYS:O	8:H:665:VAL:HG12	2.17	0.44
8:H:813:LEU:HD21	8:H:871:ILE:HG23	1.99	0.44
9:I:774:TYR:CE1	9:I:782:ARG:HB3	2.53	0.44
2:K:264:VAL:HG22	2:K:276:THR:HG23	1.98	0.44
3:L:283:ARG:NH1	3:L:294:ALA:O	2.51	0.44
4:M:1026:THR:HA	4:M:1029:GLN:HB2	1.99	0.44
6:O:482:ILE:CG2	6:O:510:SER:HB3	2.48	0.44
6:O:776:LEU:O	6:O:780:LEU:HD23	2.18	0.44
7:P:131:ILE:HG22	7:P:143:LYS:HB2	1.99	0.44
8:Q:276:PHE:HD2	8:Q:344:LEU:HD21	1.82	0.44
8:Q:318:ALA:HA	8:Q:321:ARG:CZ	2.47	0.44
8:Q:494:ARG:O	8:Q:497:GLU:HG2	2.18	0.44
9:R:302:MET:HE1	9:R:332:TYR:CG	2.53	0.44
9:R:576:PHE:HB2	9:R:669:LEU:HG	1.99	0.44
9:R:780:GLY:O	9:R:784:ILE:HG13	2.18	0.44
9:R:803:GLN:HB3	9:R:819:LEU:HD21	1.99	0.44
9:R:1060:LYS:HA	9:R:1063:LYS:HD3	1.99	0.44
10:S:306:TYR:O	10:S:310:ILE:HD12	2.18	0.44
10:S:499:SER:HA	10:S:510:TYR:OH	2.17	0.44
10:S:928:GLU:H	10:S:928:GLU:CD	2.22	0.44
10:S:1913:HIS:N	10:S:2010:ARG:HH12	2.16	0.44
10:S:1995:ILE:HG13	10:S:1996:GLN:H	1.82	0.44
12:U:615:SER:O	12:U:618:GLU:HG3	2.18	0.44
1:A:50:ARG:HA	3:C:9:ALA:HA	2.00	0.43
1:A:305:PHE:HE2	1:A:332:MET:HB2	1.83	0.43
2:B:6:ALA:HA	2:B:62:TYR:CE2	2.53	0.43
4:D:228:LEU:HD21	4:D:242:LYS:HE2	2.00	0.43
4:D:888:TYR:C	4:D:892:GLN:HE22	2.22	0.43
4:D:1239:THR:HG22	4:D:1308:CYS:SG	2.57	0.43
4:D:1332:ASP:OD1	4:D:1332:ASP:N	2.51	0.43
6:F:384:GLU:OE1	6:F:388:GLY:HA3	2.18	0.43
7:G:62:GLN:CD	7:G:109:VAL:HG22	2.38	0.43
7:G:156:VAL:HA	7:G:184:SER:CB	2.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:206:GLN:CB	8:H:503:TYR:HD2	2.30	0.43
8:H:299:ARG:HH12	8:H:310:LEU:HB2	1.83	0.43
8:H:851:LEU:O	8:H:855:VAL:HG23	2.18	0.43
9:I:197:SER:OG	9:I:246:ILE:HG12	2.18	0.43
9:I:951:LYS:HE3	9:I:955:LEU:HD11	2.00	0.43
9:I:1069:ALA:HA	9:I:1121:ASN:CG	2.37	0.43
9:I:1100:LYS:CB	9:I:1136:MET:HG2	2.48	0.43
1:J:116:MET:HA	1:J:119:LEU:HD12	1.99	0.43
1:J:390:LEU:HD12	1:J:393:GLY:O	2.18	0.43
1:J:489:ILE:CG2	2:K:27:LEU:H	2.31	0.43
3:L:224:ASP:OD2	3:L:284:VAL:N	2.38	0.43
4:M:79:TYR:HE2	4:M:158:ASN:HD22	1.65	0.43
4:M:376:CYS:HB2	4:M:382:TYR:CE2	2.53	0.43
4:M:921:GLY:HA3	5:N:253:ARG:HD2	2.00	0.43
4:M:1225:ASP:O	4:M:1228:ILE:HB	2.17	0.43
6:O:243:MET:HA	6:O:247:MET:HE2	2.00	0.43
6:O:249:ARG:HA	7:P:265:TRP:CH2	2.53	0.43
6:O:384:GLU:OE1	6:O:388:GLY:HA3	2.18	0.43
6:O:829:HIS:HA	6:O:832:VAL:HG12	2.00	0.43
8:Q:868:LEU:CA	8:Q:871:ILE:HG22	2.48	0.43
8:Q:874:SER:C	8:Q:879:LEU:O	2.56	0.43
9:R:201:ALA:N	9:R:214:SER:O	2.42	0.43
9:R:1019:TYR:CZ	9:R:1034:LYS:HE2	2.53	0.43
10:S:756:TRP:HB3	10:S:838:HIS:HB2	2.00	0.43
12:U:208:LEU:HA	12:U:211:GLU:OE2	2.18	0.43
12:U:333:MET:SD	12:U:334:ALA:N	2.91	0.43
12:U:477:ILE:HD13	12:U:480:LEU:HD12	2.00	0.43
12:U:750:LEU:HD13	12:U:812:LEU:HD21	1.99	0.43
1:A:16:LEU:HG	3:C:4:ALA:CB	2.49	0.43
2:B:45:VAL:HG11	2:B:101:PHE:CE2	2.46	0.43
2:B:193:LYS:HA	2:B:206:GLN:O	2.17	0.43
3:C:250:MET:HA	3:C:267:GLU:O	2.18	0.43
3:C:254:ARG:HB3	3:C:265:LYS:CB	2.46	0.43
4:D:794:LEU:HB2	4:D:884:ARG:HH11	1.81	0.43
4:D:976:GLU:HG2	4:D:977:LEU:HD22	2.00	0.43
4:D:1177:LEU:HB3	4:D:1182:LEU:HD21	2.00	0.43
4:D:1364:GLY:HA2	4:D:1367:TYR:CE2	2.54	0.43
5:E:309:PRO:O	5:E:324:THR:HG22	2.18	0.43
6:F:528:GLN:NE2	6:F:533:ARG:HH12	2.16	0.43
6:F:711:GLU:O	6:F:715:ILE:HG12	2.18	0.43
6:F:837:LYS:O	6:F:840:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:148:GLU:O	1:J:152:ILE:N	2.51	0.43
1:J:406:SER:HA	1:J:409:PHE:CD2	2.53	0.43
2:K:183:ILE:HG12	2:K:197:LEU:HD21	2.01	0.43
2:K:224:PRO:HG2	2:K:271:PRO:HB3	1.99	0.43
4:M:135:CYS:HB3	4:M:157:THR:HB	2.00	0.43
4:M:290:VAL:H	4:M:346:LEU:HD13	1.82	0.43
4:M:372:PHE:HB2	4:M:384:LEU:HD22	2.00	0.43
6:O:615:LEU:HD23	6:O:615:LEU:H	1.83	0.43
6:O:787:GLU:HA	6:O:790:LYS:HZ3	1.83	0.43
7:P:17:HIS:NE2	7:P:33:SER:HB2	2.33	0.43
7:P:61:TRP:NE1	7:P:105:SER:OG	2.50	0.43
7:P:87:LYS:O	7:P:93:TRP:HA	2.19	0.43
8:Q:299:ARG:HH12	8:Q:310:LEU:HB2	1.83	0.43
9:R:627:SER:HB2	9:R:736:TYR:CE2	2.53	0.43
10:S:400:MET:O	10:S:404:VAL:HG23	2.19	0.43
10:S:774:GLU:OE1	10:S:856:LYS:NZ	2.45	0.43
10:S:989:ILE:HG22	10:S:993:GLU:OE2	2.18	0.43
10:S:1401:ASN:HA	10:S:1404:GLU:OE2	2.18	0.43
10:S:1642:GLY:O	10:S:1646:GLN:HG2	2.18	0.43
10:S:1806:TRP:CZ2	10:S:1943:ASN:HA	2.53	0.43
10:S:1881:LEU:HB3	10:S:1885:ARG:HH21	1.83	0.43
11:T:734:ILE:HD11	11:T:738:TRP:CE2	2.53	0.43
11:T:810:ILE:HA	11:T:813:PHE:HD2	1.83	0.43
12:U:103:LYS:HE2	12:U:104:ASN:HD21	1.83	0.43
12:U:470:THR:O	12:U:472:GLN:NE2	2.51	0.43
12:U:516:GLN:NE2	12:U:524:VAL:O	2.51	0.43
2:B:173:HIS:CD2	2:B:188:SER:HG	2.36	0.43
3:C:222:VAL:HA	3:C:242:THR:CG2	2.48	0.43
3:C:235:PHE:CE2	3:C:249:THR:HG23	2.52	0.43
3:C:301:THR:HG22	3:C:320:LYS:HG3	2.00	0.43
4:D:100:ASN:HB3	4:D:119:LEU:HB3	2.01	0.43
4:D:1135:ARG:HG2	4:D:1136:PRO:HD2	1.99	0.43
7:G:34:ASP:O	7:G:35:ARG:HB2	2.18	0.43
7:G:131:ILE:HB	7:G:143:LYS:HB2	1.99	0.43
7:G:215:ARG:HH11	7:G:263:VAL:HG12	1.83	0.43
8:H:375:TYR:HB2	8:H:395:ARG:NH2	2.28	0.43
8:H:558:GLU:O	8:H:562:GLU:HG2	2.19	0.43
9:I:74:ASN:HB3	9:I:465:ALA:HA	2.00	0.43
9:I:576:PHE:CG	11:T:643:VAL:N	2.85	0.43
1:J:458:ARG:HG3	1:J:458:ARG:O	2.18	0.43
1:J:542:PHE:CE1	1:J:554:ALA:HB1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:26:ARG:HH11	3:L:40:ASP:HB3	1.81	0.43
3:L:283:ARG:NH2	3:L:296:SER:HB2	2.33	0.43
4:M:218:THR:HG22	4:M:230:ALA:HB3	1.99	0.43
4:M:354:ILE:HG23	4:M:374:LEU:O	2.18	0.43
4:M:414:LEU:HD22	9:R:183:LEU:HD11	2.01	0.43
4:M:991:ASP:OD1	4:M:992:ASP:N	2.51	0.43
4:M:1320:LEU:HG	4:M:1321:PRO:HD2	2.00	0.43
5:N:275:LYS:HA	5:N:275:LYS:HD3	1.65	0.43
6:O:387:TRP:CZ2	6:O:608:TYR:HB2	2.53	0.43
6:O:603:HIS:N	6:O:606:LYS:HZ3	2.16	0.43
6:O:621:PRO:O	6:O:625:THR:OG1	2.34	0.43
7:P:17:HIS:ND1	7:P:60:VAL:O	2.51	0.43
7:P:27:ARG:HG3	7:P:50:ILE:HD11	2.00	0.43
9:R:155:GLN:H	9:R:164:SER:HB3	1.82	0.43
9:R:528:VAL:HG21	9:R:604:VAL:HG11	1.99	0.43
9:R:532:PHE:CD2	9:R:606:LEU:HD11	2.53	0.43
9:R:1002:LEU:HB3	9:R:1007:MET:HB2	2.00	0.43
10:S:1387:PHE:HA	10:S:1390:ILE:HG12	2.00	0.43
11:T:197:ILE:H	11:T:197:ILE:HD12	1.83	0.43
11:T:887:ILE:HD12	11:T:887:ILE:H	1.83	0.43
1:A:395:ASN:ND2	1:A:398:GLU:HB2	2.34	0.43
1:A:500:ILE:CG1	1:A:503:ARG:HH21	2.30	0.43
2:B:1:MET:O	2:B:309:ARG:NH2	2.52	0.43
2:B:40:ASN:HB2	2:B:44:LYS:NZ	2.33	0.43
2:B:282:SER:HB2	2:B:284:TRP:CH2	2.53	0.43
2:B:284:TRP:NE1	2:B:339:ASN:HB2	2.32	0.43
3:C:121:PHE:CD1	3:C:130:LEU:HD12	2.53	0.43
4:D:149:ASN:O	4:D:171:ARG:NE	2.49	0.43
4:D:325:LEU:HD11	4:D:334:ILE:HB	1.99	0.43
4:D:1049:LEU:HA	4:D:1052:PHE:CD2	2.53	0.43
4:D:1095:LYS:NZ	6:F:902:GLU:O	2.51	0.43
6:F:464:ARG:HE	6:F:468:LEU:HG	1.84	0.43
6:F:618:LEU:HB3	6:F:638:TRP:HZ2	1.83	0.43
6:F:753:ASN:O	6:F:756:HIS:HB3	2.18	0.43
6:F:864:LEU:HA	6:F:867:VAL:HG22	1.99	0.43
7:G:135:THR:OG1	7:G:139:PRO:HD2	2.18	0.43
9:I:910:ALA:O	9:I:914:GLN:HG3	2.18	0.43
1:J:200:GLY:O	1:J:204:GLN:HG2	2.18	0.43
1:J:390:LEU:HD21	1:J:396:MET:HG3	1.99	0.43
1:J:514:PHE:HZ	1:J:543:HIS:CD2	2.36	0.43
2:K:30:PRO:HD2	2:K:357:ASN:OD1	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:87:GLU:OE1	3:L:106:ARG:HD3	2.19	0.43
3:L:100:GLN:HB2	3:L:102:HIS:NE2	2.34	0.43
3:L:193:ILE:HB	3:L:196:LYS:HE2	1.99	0.43
4:M:101:ARG:HE	4:M:121:ILE:HD11	1.83	0.43
4:M:197:ASP:C	4:M:199:ASN:N	2.71	0.43
4:M:1228:ILE:HG23	4:M:1298:TYR:HE2	1.82	0.43
4:M:1262:GLU:HA	4:M:1265:GLU:CD	2.39	0.43
4:M:1340:TYR:HE2	4:M:1352:LEU:CD2	2.32	0.43
5:N:258:ARG:HB3	5:N:304:TRP:HD1	1.84	0.43
6:O:438:ILE:HG12	6:O:502:ARG:CD	2.48	0.43
6:O:574:LEU:HB3	6:O:578:LEU:HD23	2.00	0.43
7:P:230:ILE:C	7:P:241:ILE:HD12	2.39	0.43
8:Q:163:PHE:O	8:Q:167:GLU:OE1	2.36	0.43
8:Q:543:HIS:O	8:Q:547:PHE:CD2	2.72	0.43
9:R:188:TYR:O	9:R:189:ILE:HD13	2.19	0.43
9:R:220:LEU:HB3	9:R:236:LEU:HD13	2.00	0.43
10:S:554:HIS:HA	10:S:557:HIS:NE2	2.32	0.43
10:S:805:HIS:HE1	10:S:810:SER:HA	1.84	0.43
10:S:1218:ASN:ND2	10:S:1224:VAL:HG23	2.33	0.43
10:S:1345:SER:HA	10:S:1430:ILE:HD11	1.99	0.43
10:S:1416:VAL:O	10:S:1420:LEU:HG	2.18	0.43
12:U:397:ARG:NH1	12:U:423:CYS:HA	2.32	0.43
12:U:412:GLU:HG2	12:U:413:ASP:N	2.32	0.43
12:U:714:VAL:O	12:U:718:LEU:HG	2.18	0.43
12:U:727:SER:HB3	12:U:731:ARG:NH1	2.33	0.43
1:A:15:GLY:HA3	3:C:4:ALA:H	1.84	0.43
1:A:76:HIS:CG	1:A:417:LEU:HD13	2.54	0.43
1:A:252:PHE:CE2	1:A:315:PRO:HB2	2.54	0.43
1:A:263:CYS:HB2	1:A:286:LEU:HD21	2.00	0.43
1:A:317:VAL:HB	1:A:322:LEU:HD21	2.00	0.43
1:A:596:TYR:HB3	1:A:600:ARG:HH21	1.83	0.43
2:B:153:PHE:CE1	2:B:160:VAL:HA	2.53	0.43
2:B:255:ASN:ND2	2:B:332:LYS:O	2.52	0.43
4:D:410:TRP:CZ3	4:D:553:VAL:HG11	2.54	0.43
4:D:433:GLY:H	11:T:113:ILE:N	2.16	0.43
4:D:1142:VAL:HB	4:D:1174:ILE:CD1	2.49	0.43
4:D:1347:GLU:O	4:D:1350:ALA:HB3	2.18	0.43
6:F:291:PRO:O	7:G:47:GLN:NE2	2.46	0.43
8:H:139:GLY:O	8:H:143:THR:HG23	2.19	0.43
8:H:496:LEU:HD23	8:H:496:LEU:HA	1.73	0.43
9:I:116:ARG:NE	9:I:118:ILE:HD11	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:652:SER:O	9:I:655:GLN:NE2	2.51	0.43
9:I:814:GLU:O	9:I:818:ILE:HG13	2.18	0.43
9:I:822:GLU:HA	9:I:825:GLN:OE1	2.18	0.43
9:I:1055:LEU:HD11	9:I:1112:SER:HB2	1.99	0.43
9:I:1076:PRO:HG3	9:I:1126:PHE:CZ	2.53	0.43
1:J:105:TYR:O	1:J:109:LEU:HG	2.19	0.43
1:J:207:MET:N	1:J:207:MET:SD	2.92	0.43
1:J:277:HIS:O	1:J:281:VAL:HG23	2.18	0.43
1:J:305:PHE:CE2	1:J:329:SER:HA	2.54	0.43
1:J:489:ILE:HD12	2:K:26:SER:OG	2.18	0.43
1:J:588:VAL:HG22	1:J:643:ARG:HH11	1.82	0.43
2:K:179:ARG:HB2	2:K:182:GLU:OE1	2.18	0.43
2:K:259:ALA:HB1	2:K:279:GLU:HG2	1.99	0.43
3:L:199:ILE:HD13	3:L:215:LEU:HD23	1.99	0.43
4:M:615:MET:HE3	4:M:661:ILE:HG12	2.00	0.43
8:Q:484:PHE:CD2	8:Q:512:LEU:HD21	2.53	0.43
9:R:661:ARG:HB3	9:R:688:CYS:SG	2.58	0.43
9:R:693:GLU:OE2	9:R:711:VAL:HA	2.19	0.43
9:R:766:GLN:OE1	9:R:770:ILE:HG13	2.18	0.43
10:S:254:GLU:O	10:S:321:LYS:HG2	2.18	0.43
10:S:599:GLN:NE2	10:S:642:GLU:OE1	2.50	0.43
10:S:671:GLN:HG3	10:S:681:GLY:HA2	2.00	0.43
10:S:1629:ILE:O	10:S:1633:SER:OG	2.33	0.43
10:S:1882:ILE:HA	10:S:1885:ARG:NH1	2.33	0.43
10:S:1906:HIS:ND1	10:S:1910:TYR:OH	2.49	0.43
11:T:98:LEU:HD13	11:T:105:VAL:HB	2.00	0.43
11:T:655:GLN:O	11:T:659:ARG:HG2	2.19	0.43
11:T:682:ASP:O	11:T:686:GLN:HG2	2.19	0.43
12:U:243:LEU:O	12:U:246:ARG:HG2	2.19	0.43
12:U:775:PRO:O	12:U:779:GLN:HG3	2.18	0.43
1:A:80:VAL:O	1:A:84:LYS:HG2	2.18	0.43
1:A:137:LEU:HD23	1:A:140:MET:CE	2.49	0.43
1:A:367:SER:HB3	3:C:330:TYR:OH	2.19	0.43
2:B:287:ASP:CG	2:B:297:PHE:HB2	2.39	0.43
4:D:427:PHE:CA	11:T:113:ILE:HD13	2.48	0.43
4:D:438:VAL:HG12	4:D:440:VAL:HG13	2.00	0.43
4:D:1426:THR:O	4:D:1430:LYS:HD3	2.19	0.43
6:F:500:GLU:OE1	6:F:503:LEU:HD13	2.17	0.43
6:F:613:TYR:C	12:U:187:ARG:NH2	2.72	0.43
6:F:658:HIS:ND1	6:F:681:ILE:HD13	2.33	0.43
6:F:735:ARG:NE	6:F:735:ARG:HA	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:436:TRP:HB2	8:H:498:GLU:CD	2.38	0.43
8:H:622:ASP:OD1	8:H:622:ASP:N	2.51	0.43
9:I:118:ILE:HG22	9:I:120:TRP:CE3	2.53	0.43
9:I:684:ILE:HA	9:I:687:GLU:OE2	2.19	0.43
1:J:576:LEU:CD1	1:J:605:ARG:HH21	2.29	0.43
3:L:26:ARG:HB2	3:L:65:TRP:HZ3	1.82	0.43
3:L:272:ALA:HB1	3:L:274:PHE:CE2	2.53	0.43
4:M:59:ARG:NE	4:M:60:ASN:OD1	2.51	0.43
4:M:436:ASN:OD1	4:M:587:HIS:NE2	2.49	0.43
4:M:1106:ARG:HE	4:M:1149:VAL:HB	1.84	0.43
4:M:1288:TRP:HB2	4:M:1289:ARG:CZ	2.49	0.43
4:M:1313:LEU:HD22	4:M:1318:VAL:HG11	2.01	0.43
4:M:1340:TYR:CB	4:M:1349:ALA:HB2	2.48	0.43
6:O:556:TYR:HE1	6:O:570:ALA:HB1	1.83	0.43
6:O:830:THR:O	6:O:833:MET:HG2	2.19	0.43
6:O:842:ILE:O	6:O:843:GLN:HB2	2.18	0.43
7:P:79:TYR:CD1	7:P:105:SER:HB2	2.54	0.43
7:P:174:GLN:O	7:P:175:LYS:HD3	2.19	0.43
7:P:225:LEU:HD13	7:P:226:PRO:HD2	1.99	0.43
8:Q:341:LEU:HD12	8:Q:341:LEU:HA	1.79	0.43
8:Q:868:LEU:C	8:Q:868:LEU:CD2	2.87	0.43
9:R:618:MET:SD	9:R:620:VAL:HB	2.59	0.43
9:R:1012:PRO:HA	9:R:1038:LEU:HD22	1.99	0.43
10:S:567:ARG:NH2	10:S:570:LEU:HD22	2.33	0.43
10:S:687:GLU:OE2	10:S:700:LEU:HD23	2.18	0.43
10:S:733:LEU:O	10:S:736:LEU:HG	2.19	0.43
10:S:843:VAL:O	10:S:846:CYS:HB3	2.18	0.43
10:S:1289:GLU:O	10:S:1293:THR:HG22	2.19	0.43
10:S:1437:PRO:HB3	10:S:1879:VAL:HG13	2.01	0.43
10:S:1812:GLY:HA2	10:S:1815:ILE:HG22	2.00	0.43
10:S:1826:PHE:HE2	10:S:1977:ARG:HE	1.59	0.43
12:U:35:GLU:HA	12:U:35:GLU:OE2	2.19	0.43
12:U:397:ARG:HH12	12:U:423:CYS:HA	1.83	0.43
12:U:544:ASP:HB3	12:U:546:ARG:NH1	2.33	0.43
1:A:145:ASN:ND2	1:A:171:HIS:CE1	2.86	0.43
1:A:260:ARG:NH1	1:A:285:LEU:O	2.47	0.43
1:A:406:SER:HA	1:A:409:PHE:HD2	1.84	0.43
3:C:241:ALA:C	3:C:246:ARG:HH22	2.22	0.43
3:C:303:ARG:HB3	3:C:315:CYS:SG	2.59	0.43
4:D:156:LEU:HD11	4:D:219:ALA:HB2	2.01	0.43
4:D:771:TYR:HA	4:D:774:ILE:HG12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:973:GLY:O	5:E:275:LYS:HD2	2.19	0.43
4:D:1415:MET:HE2	4:D:1419:PHE:CE2	2.51	0.43
5:E:305:HIS:HB2	5:E:310:LEU:HB3	2.01	0.43
6:F:556:TYR:HE1	6:F:570:ALA:HB1	1.83	0.43
6:F:560:PHE:HB3	6:F:570:ALA:C	2.38	0.43
6:F:732:ARG:HH21	6:F:735:ARG:CB	2.32	0.43
7:G:193:ILE:HB	7:G:205:GLN:HB2	2.00	0.43
8:H:166:ILE:HA	8:H:169:TYR:CD2	2.51	0.43
8:H:181:LYS:HD3	8:H:201:LEU:HD21	2.01	0.43
8:H:231:MET:O	8:H:231:MET:HG3	2.19	0.43
8:H:784:LYS:HB2	8:H:785:LYS:NZ	2.34	0.43
8:H:808:ILE:O	8:H:812:LEU:HG	2.18	0.43
1:J:63:ILE:HG12	1:J:411:HIS:CE1	2.53	0.43
1:J:597:GLU:HG2	1:J:598:LEU:N	2.34	0.43
3:L:169:SER:HB3	3:L:227:PHE:HE1	1.83	0.43
3:L:239:ALA:HB3	3:L:286:TRP:HE1	1.83	0.43
4:M:369:PHE:HD2	4:M:392:THR:HG1	1.65	0.43
4:M:441:ASN:C	4:M:441:ASN:ND2	2.72	0.43
5:N:44:VAL:HG23	5:N:69:PHE:HB3	2.00	0.43
6:O:259:TRP:CZ2	7:P:274:ASN:HB2	2.53	0.43
6:O:267:LYS:H	6:O:270:GLU:HG2	1.82	0.43
6:O:464:ARG:HE	6:O:468:LEU:HG	1.84	0.43
6:O:481:LEU:HB3	8:Q:363:ALA:HB1	2.00	0.43
6:O:620:ASP:OD1	6:O:623:SER:OG	2.35	0.43
6:O:723:GLN:NE2	6:O:727:LYS:HD3	2.33	0.43
8:Q:214:ILE:HG12	8:Q:510:VAL:HG11	1.99	0.43
8:Q:374:LEU:HA	8:Q:395:ARG:HD2	2.00	0.43
9:R:901:GLN:CD	9:R:909:LEU:HD22	2.39	0.43
9:R:909:LEU:HD23	9:R:923:HIS:NE2	2.34	0.43
10:S:555:PHE:CE2	10:S:559:LEU:HD11	2.54	0.43
10:S:875:PRO:HD2	10:S:878:GLN:HE22	1.82	0.43
10:S:1304:HIS:O	10:S:1308:ILE:HG12	2.19	0.43
12:U:484:GLU:HA	12:U:487:ARG:CZ	2.48	0.43
1:A:7:ASP:H	3:C:331:GLN:CG	2.32	0.43
1:A:499:LEU:HB3	1:A:503:ARG:NH2	2.34	0.43
2:B:37:SER:HB2	2:B:43:ASN:HA	2.00	0.43
3:C:171:ASN:HB3	3:C:181:MET:H	1.84	0.43
4:D:202:TYR:CG	4:D:252:VAL:HG11	2.54	0.43
4:D:1017:TYR:O	4:D:1021:THR:HG23	2.19	0.43
4:D:1143:GLN:NE2	4:D:1175:GLU:OE1	2.51	0.43
5:E:54:GLU:HG3	5:E:308:LEU:HD11	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:537:ILE:HG23	6:F:541:TYR:CD2	2.52	0.43
6:F:671:TRP:O	6:F:672:GLU:C	2.56	0.43
8:H:688:ARG:HH22	8:H:833:ARG:HE	1.67	0.43
8:H:805:LYS:O	8:H:809:TYR:HD2	2.02	0.43
9:I:67:ALA:HB3	9:I:461:LEU:HD11	2.01	0.43
9:I:288:ASP:OD1	9:I:295:SER:HB2	2.18	0.43
9:I:360:TYR:OH	9:I:392:MET:O	2.36	0.43
1:J:283:ARG:HD2	1:J:283:ARG:HA	1.91	0.43
2:K:144:VAL:HG12	2:K:150:ILE:HG13	2.00	0.43
2:K:186:VAL:HG12	2:K:192:LEU:HD21	2.00	0.43
2:K:245:ARG:HD3	2:K:245:ARG:N	2.34	0.43
2:K:267:HIS:NE2	2:K:356:GLN:HA	2.33	0.43
3:L:27:MET:SD	3:L:28:ALA:N	2.91	0.43
3:L:123:PRO:HG2	3:L:126:MET:SD	2.58	0.43
4:M:121:ILE:HD12	4:M:183:ILE:HG21	2.00	0.43
4:M:620:ILE:HG21	4:M:730:ARG:HH21	1.83	0.43
4:M:1223:LEU:HB3	4:M:1226:THR:HB	2.01	0.43
5:N:206:SER:OG	5:N:243:PRO:HD3	2.19	0.43
6:O:779:PHE:O	6:O:782:GLU:HG2	2.19	0.43
7:P:54:ARG:HH11	7:P:56:HIS:H	1.65	0.43
8:Q:290:GLU:HB2	12:U:46:LYS:HE3	2.01	0.43
8:Q:534:LEU:HB2	8:Q:537:LEU:HD13	1.99	0.43
8:Q:853:HIS:CE1	8:Q:894:LYS:HB3	2.54	0.43
9:R:191:SER:HB3	9:R:231:MET:HB3	1.99	0.43
9:R:224:THR:HB	9:R:232:ASN:HB3	2.01	0.43
9:R:562:ASP:O	9:R:565:TRP:N	2.49	0.43
9:R:622:THR:O	9:R:626:LEU:HG	2.19	0.43
10:S:186:ILE:HD12	10:S:232:LEU:HD13	1.99	0.43
10:S:492:SER:OG	10:S:496:ARG:NH2	2.50	0.43
10:S:688:LEU:HD12	10:S:692:GLU:HB2	2.00	0.43
10:S:1059:LEU:HA	10:S:1062:GLN:HB2	2.01	0.43
10:S:1178:ARG:CG	10:S:1180:ILE:HG22	2.49	0.43
10:S:1246:ALA:HB3	10:S:1250:ARG:NH1	2.34	0.43
10:S:1808:LEU:HG	10:S:1949:LEU:HA	2.01	0.43
11:T:477:ALA:HB3	11:T:488:PHE:CZ	2.54	0.43
12:U:442:GLN:HB3	12:U:446:PHE:CZ	2.54	0.43
12:U:712:PHE:O	12:U:716:GLU:OE1	2.35	0.43
1:A:156:PRO:O	1:A:160:LEU:HG	2.19	0.43
1:A:487:TRP:CH2	2:B:24:ALA:HB3	2.54	0.43
2:B:17:THR:OG1	2:B:352:ASP:OD2	2.29	0.43
2:B:76:GLY:HA2	2:B:94:SER:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:432:ALA:HB1	11:T:109:TYR:CZ	2.54	0.43
4:D:631:ALA:O	4:D:636:GLN:HB3	2.18	0.43
4:D:670:ASN:HD22	11:T:367:GLY:HA3	1.84	0.43
4:D:747:LEU:HD22	11:T:363:GLU:HG2	2.00	0.43
4:D:1100:MET:HG3	4:D:1123:SER:HA	2.00	0.43
4:D:1124:TYR:HB2	4:D:1186:TYR:CD1	2.54	0.43
4:D:1222:GLY:HA2	4:D:1224:PHE:CE1	2.54	0.43
4:D:1232:GLN:O	4:D:1235:LYS:HE3	2.19	0.43
4:D:1313:LEU:O	4:D:1318:VAL:N	2.52	0.43
6:F:257:PRO:O	6:F:260:THR:HG22	2.18	0.43
6:F:378:LEU:HD12	6:F:416:TRP:HZ2	1.84	0.43
6:F:411:LYS:O	6:F:414:SER:OG	2.28	0.43
6:F:438:ILE:CG2	6:F:501:GLU:HG2	2.41	0.43
6:F:758:LEU:HD12	6:F:759:VAL:N	2.33	0.43
6:F:786:PRO:O	6:F:790:LYS:HG2	2.19	0.43
7:G:116:PHE:CG	7:G:180:LYS:HE3	2.54	0.43
8:H:242:LYS:HB2	8:H:376:HIS:CD2	2.54	0.43
8:H:367:ALA:HA	8:H:370:GLU:OE1	2.19	0.43
8:H:420:ALA:O	8:H:429:LEU:HD11	2.19	0.43
8:H:863:LYS:HG3	8:H:867:ARG:HH22	1.84	0.43
9:I:243:LEU:HD12	9:I:258:SER:HB3	2.01	0.43
9:I:607:PHE:O	9:I:738:ASN:ND2	2.52	0.43
9:I:980:ALA:HA	9:I:983:GLU:CD	2.39	0.43
1:J:59:SER:O	3:L:330:TYR:OH	2.31	0.43
1:J:360:LYS:HE3	1:J:360:LYS:HB3	1.82	0.43
2:K:4:LYS:HZ3	2:K:373:LEU:HD21	1.83	0.43
2:K:173:HIS:HB2	2:K:186:VAL:HG23	2.00	0.43
4:M:325:LEU:HB3	4:M:330:VAL:HG22	2.01	0.43
4:M:1114:LEU:H	10:S:478:GLY:HA2	1.84	0.43
4:M:1326:ASN:HA	4:M:1329:LYS:HE3	2.01	0.43
6:O:721:PRO:O	6:O:724:TRP:HD1	2.01	0.43
7:P:59:PRO:HD2	7:P:79:TYR:CB	2.48	0.43
7:P:132:LEU:HD12	7:P:141:GLU:O	2.19	0.43
8:Q:349:MET:HE2	8:Q:352:GLU:HG3	2.00	0.43
8:Q:359:ARG:HH12	12:U:32:ASN:HB2	1.82	0.43
8:Q:507:GLN:O	8:Q:510:VAL:HB	2.19	0.43
9:R:341:GLY:HA3	9:R:367:ASP:N	2.30	0.43
9:R:1015:LEU:HB2	9:R:1038:LEU:HD13	2.00	0.43
9:R:1022:GLU:OE1	9:R:1063:LYS:HE3	2.18	0.43
10:S:40:ASP:HB2	10:S:169:MET:SD	2.58	0.43
10:S:354:GLU:O	10:S:358:GLU:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:528:PHE:O	10:S:552:TRP:HH2	2.01	0.43
10:S:754:GLU:O	10:S:758:VAL:HG23	2.19	0.43
10:S:1560:THR:O	10:S:1564:LYS:HG3	2.19	0.43
12:U:172:ALA:HB3	12:U:177:SER:N	2.34	0.43
12:U:223:ASP:O	12:U:226:VAL:HB	2.19	0.43
1:A:104:ASN:O	1:A:108:VAL:HG23	2.18	0.43
1:A:289:GLU:OE1	1:A:305:PHE:HE1	2.01	0.43
2:B:85:ASP:OD2	3:C:96:LYS:HB3	2.18	0.43
3:C:134:SER:C	3:C:136:ASP:H	2.21	0.43
4:D:376:CYS:HA	4:D:382:TYR:HD1	1.84	0.43
4:D:1105:MET:HE2	4:D:1124:TYR:OH	2.19	0.43
5:E:93:LEU:HB3	5:E:109:SER:HB2	2.01	0.43
5:E:94:ARG:NH1	5:E:138:THR:HA	2.34	0.43
6:F:352:ILE:HD12	6:F:384:GLU:OE1	2.19	0.43
6:F:699:CYS:HB3	6:F:729:LYS:HD3	2.00	0.43
6:F:850:ARG:HD2	6:F:850:ARG:C	2.40	0.43
7:G:22:ASP:CG	7:G:27:ARG:HD3	2.40	0.43
7:G:81:ARG:O	7:G:100:THR:HG23	2.19	0.43
8:H:494:ARG:HH21	8:H:498:GLU:CD	2.21	0.43
9:I:74:ASN:ND2	9:I:466:ARG:HB3	2.33	0.43
9:I:560:ALA:HA	9:I:565:TRP:HE1	1.84	0.43
9:I:690:VAL:O	9:I:693:GLU:HB2	2.19	0.43
9:I:729:ARG:NH2	9:I:733:ASN:HA	2.34	0.43
1:J:302:TRP:HB3	1:J:333:PHE:CD2	2.54	0.43
4:M:413:TRP:CZ3	4:M:423:LYS:HE2	2.54	0.43
4:M:472:ILE:HG13	4:M:497:LEU:CD2	2.49	0.43
4:M:474:ALA:HB1	4:M:538:CYS:HA	2.00	0.43
4:M:913:LEU:HG	4:M:917:TYR:CZ	2.54	0.43
4:M:1072:VAL:HG12	4:M:1153:PRO:HG3	2.00	0.43
5:N:174:HIS:HD2	5:N:180:LYS:HB3	1.83	0.43
5:N:302:LEU:HA	5:N:312:VAL:O	2.19	0.43
6:O:250:SER:N	7:P:265:TRP:CZ3	2.87	0.43
6:O:857:ALA:HA	6:O:860:VAL:HG12	2.01	0.43
7:P:40:PHE:CZ	7:P:49:LEU:HD13	2.54	0.43
8:Q:667:ASP:HB2	8:Q:671:PHE:CZ	2.53	0.43
9:R:333:LEU:HB2	9:R:345:LEU:HG	2.01	0.43
9:R:817:ASN:O	9:R:821:MET:HG3	2.19	0.43
10:S:511:LEU:HB3	10:S:515:ARG:CZ	2.49	0.43
10:S:713:GLU:OE2	10:S:714:SER:OG	2.37	0.43
10:S:866:GLU:CD	10:S:866:GLU:H	2.18	0.43
10:S:1075:GLY:O	10:S:1079:ARG:HG2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1177:ARG:HB2	10:S:1182:ARG:CZ	2.49	0.43
10:S:1401:ASN:O	10:S:1404:GLU:HG2	2.19	0.43
11:T:453:LEU:HA	11:T:475:PHE:HB3	1.99	0.43
11:T:513:PRO:HA	11:T:534:ALA:HB1	2.00	0.43
12:U:294:VAL:O	12:U:298:LEU:HD23	2.19	0.43
12:U:323:ILE:HG22	12:U:327:MET:CE	2.48	0.43
12:U:658:GLN:C	12:U:663:ARG:HH12	2.22	0.43
1:A:5:ASP:OD2	3:C:308:ASN:HB3	2.19	0.42
1:A:22:HIS:HE1	3:C:297:GLY:O	2.02	0.42
1:A:532:ARG:HH12	1:A:568:PRO:HD3	1.83	0.42
1:A:583:LEU:HD23	1:A:590:PHE:CE1	2.54	0.42
1:A:593:GLU:HG2	1:A:594:GLN:OE1	2.20	0.42
2:B:173:HIS:HD2	2:B:187:ASN:C	2.22	0.42
3:C:274:PHE:HB3	3:C:276:ASN:OD1	2.19	0.42
4:D:111:THR:HG21	4:D:129:ARG:CZ	2.49	0.42
4:D:974:LEU:O	4:D:978:VAL:HG23	2.19	0.42
6:F:380:TRP:CZ2	6:F:633:LEU:CA	2.87	0.42
6:F:607:LEU:HB2	6:F:613:TYR:HD2	1.83	0.42
6:F:773:TYR:O	6:F:777:ARG:CB	2.67	0.42
7:G:195:ARG:NH2	7:G:202:LYS:HB2	2.34	0.42
7:G:218:ALA:HB2	7:G:267:VAL:HB	1.99	0.42
8:H:134:GLN:HB2	10:S:1507:ARG:HD2	2.01	0.42
8:H:280:ILE:HG23	8:H:283:TYR:CD2	2.54	0.42
8:H:374:LEU:HA	8:H:395:ARG:HD2	2.00	0.42
9:I:926:ASN:O	9:I:926:ASN:ND2	2.52	0.42
9:I:1014:GLN:CD	9:I:1017:GLN:HE21	2.22	0.42
9:I:1076:PRO:HD3	9:I:1126:PHE:HE2	1.84	0.42
1:J:14:PRO:O	1:J:18:GLN:HG3	2.18	0.42
1:J:551:PHE:CE2	1:J:589:ILE:HG12	2.47	0.42
2:K:13:LYS:HB2	2:K:38:TRP:O	2.18	0.42
2:K:16:ARG:HH22	2:K:45:VAL:HG13	1.84	0.42
2:K:29:GLN:HE21	2:K:371:ARG:HH12	1.67	0.42
4:M:543:GLU:HG3	9:R:132:VAL:HA	2.01	0.42
4:M:938:GLU:HB2	4:M:939:ARG:NH1	2.34	0.42
4:M:1049:LEU:HA	4:M:1052:PHE:CD2	2.54	0.42
4:M:1104:GLY:HA3	4:M:1124:TYR:CE1	2.54	0.42
5:N:106:ILE:O	5:N:117:TYR:HA	2.19	0.42
6:O:537:ILE:HG23	6:O:541:TYR:CD2	2.52	0.42
6:O:632:ARG:HG2	6:O:636:HIS:NE2	2.34	0.42
7:P:218:ALA:HB1	7:P:269:TRP:CD1	2.54	0.42
7:P:290:GLU:HA	7:P:295:GLN:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:367:ALA:HA	8:Q:370:GLU:OE1	2.19	0.42
8:Q:375:TYR:HB2	8:Q:395:ARG:NH2	2.28	0.42
8:Q:558:GLU:HG2	8:Q:559:VAL:N	2.34	0.42
8:Q:800:LEU:O	8:Q:804:VAL:HG23	2.18	0.42
9:R:578:ASN:HB2	9:R:670:THR:HG21	2.00	0.42
9:R:809:LYS:HG2	9:R:813:GLU:OE1	2.19	0.42
10:S:511:LEU:HB3	10:S:515:ARG:NH1	2.34	0.42
10:S:613:LEU:HA	10:S:616:CYS:SG	2.59	0.42
10:S:661:TRP:HZ3	10:S:712:VAL:HA	1.84	0.42
10:S:1121:LEU:CD2	10:S:1291:ILE:HD13	2.48	0.42
10:S:1356:MET:CG	10:S:1357:THR:H	2.32	0.42
10:S:1630:LEU:HD22	10:S:1637:HIS:CD2	2.54	0.42
10:S:1720:ARG:O	10:S:1800:VAL:HG11	2.19	0.42
10:S:1904:TRP:HE1	10:S:2001:ARG:CD	2.32	0.42
12:U:267:TYR:OH	12:U:301:ARG:NH1	2.52	0.42
12:U:310:GLN:O	12:U:311:ASP:HB2	2.19	0.42
12:U:344:HIS:CD2	12:U:345:GLN:HG3	2.53	0.42
12:U:572:SER:O	12:U:575:VAL:HG12	2.19	0.42
1:A:306:LEU:HD11	1:A:325:TYR:HB3	2.00	0.42
1:A:401:LEU:CD2	1:A:421:TYR:HB3	2.48	0.42
1:A:596:TYR:CE2	4:D:1128:LEU:HD11	2.54	0.42
2:B:8:LYS:HG3	2:B:61:GLU:OE1	2.19	0.42
3:C:16:HIS:CG	3:C:61:TRP:HA	2.55	0.42
3:C:158:GLU:O	3:C:159:ILE:HD13	2.19	0.42
4:D:309:ARG:HG2	4:D:321:VAL:HG13	2.01	0.42
4:D:1000:ARG:HE	4:D:1023:ILE:HD13	1.84	0.42
4:D:1087:HIS:HA	4:D:1092:ASN:ND2	2.25	0.42
4:D:1293:SER:O	4:D:1297:LYS:HG2	2.19	0.42
4:D:1305:TYR:O	4:D:1309:ILE:HD12	2.19	0.42
4:D:1393:LEU:O	4:D:1397:GLU:HG3	2.19	0.42
5:E:240:SER:HB2	5:E:242:TYR:O	2.18	0.42
5:E:252:ASP:OD2	5:E:272:TYR:HB3	2.19	0.42
7:G:30:THR:O	7:G:37:VAL:HG13	2.19	0.42
8:H:181:LYS:CD	8:H:201:LEU:HD21	2.50	0.42
9:I:415:ILE:HD12	9:I:434:PHE:CE2	2.54	0.42
9:I:825:GLN:O	9:I:829:GLU:OE1	2.36	0.42
9:I:979:ILE:O	9:I:983:GLU:OE1	2.36	0.42
9:I:1030:ASN:HA	9:I:1033:MET:HG3	2.00	0.42
1:J:7:ASP:HB3	1:J:8:PRO:HD2	2.02	0.42
1:J:70:LYS:HZ2	2:K:246:HIS:H	1.68	0.42
1:J:87:GLU:HB2	2:K:309:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:107:SER:HA	1:J:110:ARG:CD	2.49	0.42
1:J:434:LYS:O	1:J:435:LEU:C	2.58	0.42
4:M:155:ILE:CG2	4:M:162:HIS:HB2	2.49	0.42
4:M:156:LEU:HD23	4:M:231:LEU:HG	2.01	0.42
4:M:974:LEU:HB2	4:M:977:LEU:HD12	2.00	0.42
4:M:1085:ALA:HA	4:M:1088:ILE:HD13	2.01	0.42
4:M:1426:THR:O	4:M:1430:LYS:HD3	2.19	0.42
5:N:174:HIS:CD2	5:N:180:LYS:HB3	2.54	0.42
6:O:343:PHE:CE2	6:O:679:LEU:HD12	2.53	0.42
6:O:739:LYS:H	6:O:739:LYS:HG2	1.69	0.42
7:P:263:VAL:HG12	7:P:265:TRP:CD1	2.54	0.42
8:Q:338:LEU:HD13	8:Q:414:TYR:CD2	2.55	0.42
9:R:120:TRP:HE1	9:R:460:MET:HE1	1.84	0.42
9:R:236:LEU:O	9:R:238:GLN:NE2	2.46	0.42
9:R:365:VAL:HG12	9:R:376:ILE:HG12	2.00	0.42
9:R:614:GLN:NE2	9:R:617:GLY:H	2.17	0.42
9:R:800:TYR:CD2	9:R:823:TYR:HD1	2.36	0.42
9:R:873:MET:SD	9:R:881:PHE:HB3	2.59	0.42
10:S:153:ARG:O	10:S:238:GLN:NE2	2.52	0.42
10:S:255:LYS:HD3	10:S:321:LYS:NZ	2.34	0.42
10:S:844:ALA:O	10:S:848:MET:HG3	2.18	0.42
10:S:1064:ILE:H	10:S:1064:ILE:HD12	1.83	0.42
10:S:1329:LEU:HD12	10:S:1330:MET:N	2.34	0.42
10:S:1330:MET:O	10:S:1334:ALA:CB	2.67	0.42
10:S:1602:ARG:NH2	10:S:1614:ARG:HH12	2.17	0.42
10:S:1679:ILE:HG23	10:S:1683:ALA:HB3	2.01	0.42
11:T:232:THR:O	11:T:234:GLN:HG2	2.19	0.42
11:T:538:SER:H	11:T:541:GLU:CD	2.18	0.42
11:T:579:ARG:O	11:T:583:GLU:OE1	2.37	0.42
11:T:859:ARG:HA	11:T:862:GLN:HG2	2.01	0.42
12:U:37:GLN:O	12:U:41:GLU:HG2	2.19	0.42
12:U:41:GLU:OE1	12:U:44:ARG:HD2	2.19	0.42
12:U:207:ASP:O	12:U:208:LEU:C	2.57	0.42
12:U:483:LEU:HD23	12:U:485:ARG:N	2.32	0.42
12:U:629:LEU:HD12	12:U:632:LEU:HD12	2.01	0.42
1:A:148:GLU:HG3	1:A:152:ILE:CG1	2.48	0.42
1:A:299:MET:O	1:A:300:THR:OG1	2.30	0.42
1:A:386:GLN:HA	1:A:389:ASN:OD1	2.19	0.42
1:A:444:THR:HG21	1:A:447:LYS:NZ	2.34	0.42
1:A:515:THR:HB	2:B:106:ASN:OD1	2.19	0.42
1:A:569:CYS:HA	1:A:605:ARG:HE	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:138:SER:HA	2:B:139:PRO:HA	1.64	0.42
2:B:178:LEU:CD2	2:B:245:ARG:HA	2.46	0.42
3:C:16:HIS:H	3:C:31:SER:HA	1.84	0.42
3:C:205:ASN:O	3:C:207:ARG:NH1	2.35	0.42
4:D:645:ILE:HD12	4:D:730:ARG:HH21	1.84	0.42
4:D:1059:ASN:OD1	6:F:910:ARG:NH2	2.52	0.42
4:D:1150:TYR:OH	4:D:1152:ARG:O	2.28	0.42
4:D:1215:VAL:HG13	4:D:1241:ILE:HD11	2.02	0.42
4:D:1272:LEU:HD21	4:D:1290:LEU:HD13	2.01	0.42
7:G:21:MET:CE	7:G:42:VAL:HG21	2.49	0.42
7:G:40:PHE:CZ	7:G:49:LEU:HD13	2.55	0.42
9:I:1125:GLU:O	9:I:1128:LEU:HB3	2.19	0.42
1:J:299:MET:HA	1:J:304:HIS:ND1	2.35	0.42
1:J:310:LEU:HD12	1:J:317:VAL:HB	2.01	0.42
1:J:587:GLN:CD	1:J:643:ARG:HH22	2.22	0.42
3:L:92:GLU:H	3:L:99:GLY:H	1.67	0.42
4:M:131:LYS:HE3	4:M:131:LYS:HB3	1.78	0.42
4:M:293:LEU:HD22	4:M:382:TYR:HE1	1.83	0.42
4:M:482:LEU:HD22	4:M:505:VAL:HG22	2.01	0.42
4:M:483:ARG:HA	4:M:507:LYS:NZ	2.34	0.42
4:M:506:GLU:OE1	5:N:242:TYR:HB3	2.18	0.42
4:M:540:GLN:HB3	9:R:83:PRO:HG3	2.01	0.42
4:M:974:LEU:HD21	5:N:273:PRO:O	2.19	0.42
4:M:1280:GLU:O	4:M:1281:SER:HB3	2.19	0.42
4:M:1289:ARG:HH21	4:M:1292:ILE:HD11	1.85	0.42
6:O:725:ILE:H	6:O:725:ILE:HD12	1.83	0.42
8:Q:339:LYS:HD2	8:Q:414:TYR:OH	2.20	0.42
8:Q:520:ASP:O	8:Q:524:GLU:OE1	2.37	0.42
8:Q:845:LEU:HD11	8:Q:879:LEU:HD21	2.00	0.42
9:R:855:ILE:O	9:R:859:ILE:HG12	2.18	0.42
9:R:873:MET:SD	9:R:881:PHE:HD2	2.42	0.42
10:S:327:ALA:CB	10:S:360:ALA:HA	2.48	0.42
10:S:759:ALA:O	10:S:762:VAL:HG12	2.18	0.42
10:S:926:ILE:HG23	10:S:930:ILE:HD11	2.01	0.42
10:S:1037:LEU:HD11	10:S:1060:CYS:HB3	2.01	0.42
10:S:1104:ILE:HD11	10:S:1273:CYS:SG	2.59	0.42
11:T:307:SER:HB2	11:T:323:GLU:OE2	2.19	0.42
11:T:677:LEU:HD23	11:T:679:ASP:H	1.83	0.42
11:T:955:HIS:O	11:T:960:ASN:N	2.51	0.42
12:U:115:GLU:HG2	12:U:118:ARG:NH2	2.34	0.42
12:U:289:GLY:O	12:U:293:LEU:HG	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:659:SER:N	12:U:663:ARG:HH12	2.17	0.42
1:A:260:ARG:NH1	1:A:286:LEU:HA	2.35	0.42
1:A:480:ARG:HH21	1:A:481:LEU:HG	1.85	0.42
1:A:514:PHE:CE2	1:A:540:ARG:HA	2.54	0.42
2:B:34:ALA:HB3	2:B:83:PHE:HZ	1.84	0.42
3:C:106:ARG:HD2	3:C:106:ARG:HA	1.77	0.42
4:D:41:ASN:OD1	4:D:429:ARG:HD2	2.19	0.42
4:D:366:GLN:O	4:D:366:GLN:HG2	2.20	0.42
5:E:282:ILE:HD13	5:E:292:LEU:HD23	1.99	0.42
6:F:688:GLU:HA	6:F:691:VAL:HG22	2.01	0.42
6:F:767:ALA:CB	6:F:776:LEU:HD12	2.49	0.42
6:F:827:LYS:H	6:F:827:LYS:HG2	1.62	0.42
7:G:122:CYS:O	7:G:129:ILE:HG23	2.19	0.42
7:G:183:VAL:HG12	7:G:193:ILE:CD1	2.45	0.42
7:G:282:ASP:O	7:G:284:LYS:NZ	2.31	0.42
8:H:232:PHE:O	8:H:232:PHE:CD2	2.72	0.42
8:H:365:ARG:O	8:H:369:LEU:HG	2.18	0.42
8:H:845:LEU:HB2	8:H:846:PRO:HD3	2.00	0.42
9:I:498:ASP:HB3	4:M:178:ILE:HG21	2.01	0.42
9:I:1067:TRP:HB3	9:I:1121:ASN:ND2	2.34	0.42
1:J:480:ARG:NH1	2:K:102:ARG:HH12	2.17	0.42
2:K:102:ARG:HB2	2:K:113:ASN:HB2	2.01	0.42
2:K:321:LEU:HD13	2:K:332:LYS:HD2	2.01	0.42
3:L:106:ARG:HD2	3:L:106:ARG:HA	1.74	0.42
4:M:618:ASP:OD1	4:M:619:TYR:N	2.52	0.42
4:M:686:THR:OG1	4:M:867:GLN:HB3	2.19	0.42
4:M:1116:GLY:O	4:M:1119:LYS:N	2.52	0.42
4:M:1128:LEU:O	4:M:1132:ARG:HG2	2.19	0.42
4:M:1143:GLN:N	4:M:1175:GLU:O	2.33	0.42
5:N:25:ASN:OD1	5:N:35:LEU:HB3	2.19	0.42
6:O:459:LYS:HD3	6:O:459:LYS:HA	1.73	0.42
6:O:529:LEU:HD11	6:O:571:CYS:SG	2.60	0.42
6:O:801:VAL:CG1	6:O:805:TYR:HE2	2.32	0.42
7:P:95:LYS:HE3	7:P:98:GLU:HB2	1.99	0.42
8:Q:693:SER:HB2	8:Q:695:LYS:HZ3	1.84	0.42
8:Q:819:TRP:C	8:Q:821:VAL:H	2.23	0.42
9:R:104:HIS:CD2	9:R:152:ILE:HD11	2.54	0.42
9:R:171:THR:O	9:R:173:GLU:N	2.50	0.42
9:R:305:VAL:HG23	9:R:306:LEU:H	1.84	0.42
9:R:655:GLN:HA	9:R:671:ALA:HB3	2.01	0.42
10:S:276:LEU:O	10:S:388:ARG:NE	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:335:LEU:HD22	10:S:399:LEU:HD12	2.01	0.42
10:S:482:GLN:H	10:S:483:ARG:NH1	2.17	0.42
10:S:679:ARG:HG3	10:S:682:VAL:HG11	2.00	0.42
10:S:908:GLU:O	10:S:912:GLU:OE1	2.36	0.42
11:T:588:LYS:HA	11:T:591:LEU:HG	2.02	0.42
11:T:748:TYR:HA	11:T:750:PRO:HD3	2.01	0.42
12:U:216:LEU:HB3	12:U:218:ASP:OD2	2.19	0.42
1:A:194:PHE:O	1:A:198:VAL:HG23	2.19	0.42
1:A:535:PHE:HB2	1:A:566:ILE:HD12	2.00	0.42
2:B:101:PHE:HD2	2:B:110:LEU:HD22	1.85	0.42
2:B:346:LEU:CD2	10:S:747:ARG:HH21	2.33	0.42
3:C:227:PHE:HD1	3:C:236:HIS:CE1	2.36	0.42
4:D:624:MET:CE	4:D:645:ILE:HG12	2.49	0.42
4:D:718:ILE:HD11	4:D:820:VAL:HB	2.01	0.42
4:D:883:MET:HE1	4:D:891:LEU:HD22	2.02	0.42
4:D:941:ASP:OD1	4:D:941:ASP:N	2.53	0.42
4:D:982:ALA:O	4:D:986:ILE:HG23	2.19	0.42
5:E:1:MET:H3	5:E:252:ASP:H	1.68	0.42
5:E:102:LYS:HE3	5:E:125:GLY:C	2.40	0.42
5:E:298:VAL:HB	5:E:316:TYR:CZ	2.54	0.42
6:F:410:ARG:CZ	6:F:549:VAL:HG22	2.49	0.42
7:G:65:TRP:CG	7:G:74:LEU:HD21	2.54	0.42
7:G:135:THR:HB	7:G:138:GLY:H	1.85	0.42
8:H:404:ARG:HH22	8:H:469:LEU:HA	1.84	0.42
8:H:644:HIS:CG	8:H:645:HIS:H	2.37	0.42
9:I:99:MET:HE2	9:I:114:ASN:H	1.85	0.42
9:I:766:GLN:NE2	9:I:770:ILE:HD11	2.35	0.42
1:J:68:LEU:HB3	1:J:72:PHE:CZ	2.54	0.42
1:J:629:LYS:HA	1:J:632:MET:HG2	2.01	0.42
2:K:372:ARG:HG3	2:K:373:LEU:HG	2.02	0.42
3:L:145:PRO:HD2	3:L:152:GLN:HG3	2.01	0.42
3:L:161:CYS:C	3:L:163:LEU:H	2.22	0.42
4:M:125:ASN:O	4:M:187:PHE:HB2	2.20	0.42
4:M:282:ALA:HA	4:M:304:GLN:HE21	1.84	0.42
4:M:457:GLN:HB3	4:M:531:TRP:CZ3	2.54	0.42
6:O:428:GLU:OE2	6:O:528:GLN:NE2	2.52	0.42
6:O:572:TYR:OH	6:O:598:ARG:HD2	2.20	0.42
6:O:635:TRP:CZ3	6:O:636:HIS:CE1	3.08	0.42
6:O:788:HIS:O	6:O:792:ILE:HG13	2.20	0.42
6:O:840:GLU:HG3	6:O:853:GLN:NE2	2.35	0.42
8:Q:165:LEU:HD23	8:Q:547:PHE:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:315:ASP:HB2	8:Q:318:ALA:HB2	2.01	0.42
8:Q:404:ARG:HH22	8:Q:469:LEU:HA	1.84	0.42
8:Q:809:TYR:O	8:Q:813:LEU:HB2	2.20	0.42
9:R:546:ALA:HA	9:R:549:GLN:HG2	2.01	0.42
9:R:631:GLU:HG2	9:R:725:ALA:HA	2.02	0.42
9:R:658:LEU:HD11	9:R:675:TYR:HB2	2.00	0.42
10:S:673:VAL:HG22	10:S:726:ALA:HB2	2.01	0.42
10:S:1839:LEU:HD13	10:S:1878:LEU:HB2	2.01	0.42
11:T:962:ILE:H	11:T:962:ILE:HD12	1.84	0.42
12:U:546:ARG:O	12:U:549:LEU:HB2	2.19	0.42
12:U:703:TYR:CD1	12:U:756:ILE:HD11	2.54	0.42
1:A:5:ASP:HB3	3:C:314:LYS:CB	2.46	0.42
2:B:267:HIS:NE2	2:B:270:ASN:OD1	2.53	0.42
2:B:299:LEU:HD12	2:B:302:ARG:NH1	2.34	0.42
3:C:80:ASP:O	3:C:82:THR:HG23	2.19	0.42
4:D:974:LEU:HD22	5:E:275:LYS:NZ	2.35	0.42
4:D:999:LEU:HD12	4:D:1000:ARG:N	2.35	0.42
4:D:1146:SER:HA	4:D:1166:SER:HA	2.02	0.42
5:E:220:ASN:OD1	5:E:221:THR:N	2.52	0.42
6:F:328:GLU:HA	6:F:331:ASN:HB3	2.01	0.42
6:F:686:VAL:HG22	7:G:162:VAL:HG12	2.01	0.42
6:F:784:ALA:HA	6:F:795:TRP:NE1	2.34	0.42
7:G:12:HIS:HE1	7:G:15:MET:HA	1.83	0.42
7:G:74:LEU:HG	7:G:93:TRP:CH2	2.55	0.42
7:G:184:SER:OG	7:G:194:TRP:CH2	2.70	0.42
9:I:1017:GLN:NE2	9:I:1018:LEU:HG	2.34	0.42
1:J:517:LEU:HD11	1:J:540:ARG:HD3	2.02	0.42
3:L:40:ASP:OD2	3:L:50:THR:HG21	2.19	0.42
3:L:158:GLU:O	3:L:159:ILE:HD13	2.19	0.42
3:L:270:THR:HG22	3:L:273:GLN:CD	2.39	0.42
4:M:1117:LEU:HA	4:M:1120:GLN:OE1	2.20	0.42
4:M:1348:GLU:H	4:M:1348:GLU:CD	2.20	0.42
5:N:260:SER:HA	5:N:304:TRP:CG	2.54	0.42
8:Q:455:GLU:HA	8:Q:458:ALA:HB3	2.02	0.42
9:R:69:GLU:H	9:R:69:GLU:CD	2.23	0.42
9:R:793:LEU:HD11	9:R:830:LEU:HD13	2.02	0.42
10:S:194:ASP:O	10:S:198:GLU:HG2	2.19	0.42
10:S:506:LEU:HA	10:S:506:LEU:HD23	1.84	0.42
10:S:977:ARG:O	10:S:980:THR:OG1	2.27	0.42
10:S:1217:LYS:HA	10:S:1223:THR:HA	2.01	0.42
10:S:1225:CYS:SG	10:S:1229:LEU:HD22	2.59	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1405:PHE:O	10:S:1409:THR:HG23	2.19	0.42
10:S:2009:SER:OG	10:S:2010:ARG:N	2.53	0.42
11:T:145:LEU:HB3	11:T:149:LEU:HB2	2.01	0.42
12:U:239:ALA:HB1	12:U:244:LYS:HB2	2.02	0.42
12:U:428:ALA:HB1	12:U:432:PRO:HB3	2.00	0.42
12:U:552:PHE:CD2	12:U:571:VAL:HG12	2.55	0.42
12:U:647:LEU:O	12:U:651:VAL:HG23	2.20	0.42
1:A:6:VAL:HA	3:C:331:GLN:HE21	1.84	0.42
1:A:497:ALA:HB3	1:A:530:SER:HB2	2.00	0.42
1:A:592:ALA:O	1:A:595:THR:OG1	2.22	0.42
1:A:642:ALA:O	1:A:646:VAL:HG23	2.20	0.42
3:C:318:VAL:O	3:C:320:LYS:NZ	2.44	0.42
4:D:349:SER:HB3	4:D:352:LEU:HD13	2.01	0.42
4:D:585:GLY:HA3	4:D:610:ILE:HG23	2.01	0.42
4:D:1282:SER:O	4:D:1286:GLU:HG3	2.19	0.42
6:F:251:PHE:CD1	7:G:304:LYS:HE3	2.55	0.42
6:F:540:TRP:HB2	6:F:541:TYR:CE2	2.55	0.42
6:F:776:LEU:HA	6:F:779:PHE:CB	2.47	0.42
9:I:207:LYS:HG3	9:I:270:TRP:CZ2	2.54	0.42
9:I:405:GLN:HG3	9:I:424:ARG:H	1.85	0.42
9:I:831:LEU:CB	5:N:1:MET:HB2	2.39	0.42
1:J:483:SER:O	1:J:487:TRP:HD1	2.02	0.42
2:K:224:PRO:HD3	2:K:266:PHE:CG	2.55	0.42
4:M:1218:LEU:HD11	4:M:1226:THR:HB	2.00	0.42
4:M:1401:ASN:OD1	4:M:1403:HIS:HB3	2.19	0.42
6:O:641:LEU:O	6:O:646:TYR:N	2.51	0.42
8:Q:570:ARG:O	8:Q:574:GLU:OE1	2.38	0.42
10:S:126:THR:O	10:S:130:VAL:HG23	2.19	0.42
10:S:266:LYS:CD	10:S:378:SER:HB3	2.49	0.42
10:S:499:SER:HB2	10:S:534:ASN:ND2	2.33	0.42
10:S:532:LYS:CA	10:S:552:TRP:HZ3	2.32	0.42
10:S:756:TRP:HB3	10:S:838:HIS:HB3	2.00	0.42
10:S:1222:GLN:HG2	10:S:1224:VAL:HG22	2.02	0.42
10:S:1282:GLU:HA	10:S:1285:ARG:NH2	2.35	0.42
10:S:1317:HIS:HD2	10:S:1398:ILE:HD11	1.83	0.42
10:S:1902:ILE:HG23	10:S:1906:HIS:HD2	1.83	0.42
10:S:1902:ILE:O	10:S:1905:ARG:HG3	2.19	0.42
10:S:1907:LEU:HD13	10:S:2005:LEU:HB2	2.02	0.42
11:T:584:TRP:HA	11:T:587:LYS:HG2	2.02	0.42
11:T:704:GLN:O	11:T:708:LEU:HG	2.20	0.42
11:T:858:LEU:HB2	11:T:884:ASN:ND2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:U:206:VAL:O	12:U:210:THR:OG1	2.25	0.42
12:U:603:THR:C	12:U:604:ARG:HD3	2.39	0.42
1:A:497:ALA:CB	1:A:530:SER:HB2	2.50	0.42
1:A:514:PHE:HE2	1:A:540:ARG:HA	1.84	0.42
1:A:550:GLN:NE2	1:A:553:GLU:OE2	2.44	0.42
2:B:15:SER:O	2:B:350:SER:HB2	2.20	0.42
2:B:100:ILE:O	2:B:115:ARG:NH1	2.37	0.42
2:B:210:VAL:H	2:B:214:ARG:HD2	1.85	0.42
4:D:1292:ILE:HA	4:D:1295:LEU:HD12	2.02	0.42
4:D:1297:LYS:HG3	4:D:1298:TYR:N	2.34	0.42
6:F:250:SER:HG	7:G:265:TRP:HH2	1.66	0.42
6:F:387:TRP:CD1	6:F:644:LEU:HD13	2.55	0.42
6:F:488:ASP:O	6:F:492:LEU:HG	2.19	0.42
6:F:811:MET:SD	6:F:812:LEU:N	2.93	0.42
8:H:637:LYS:NZ	8:H:658:GLU:HG3	2.34	0.42
1:J:593:GLU:HA	1:J:596:TYR:CD2	2.55	0.42
1:J:603:GLU:HA	1:J:606:MET:HB3	2.02	0.42
3:L:105:LYS:HD3	3:L:108:THR:OG1	2.20	0.42
4:M:260:SER:O	4:M:265:ARG:NE	2.51	0.42
4:M:469:ARG:HG3	4:M:470:PHE:CD2	2.54	0.42
4:M:797:LEU:HD11	4:M:888:TYR:OH	2.19	0.42
4:M:844:GLY:HA3	4:M:850:ARG:CZ	2.50	0.42
4:M:1183:GLU:O	4:M:1187:VAL:HG23	2.20	0.42
6:O:339:PRO:HB2	6:O:724:TRP:CZ2	2.54	0.42
6:O:406:ASN:HB3	6:O:548:THR:HA	2.01	0.42
6:O:472:MET:HE1	6:O:509:LEU:HD22	2.02	0.42
6:O:825:LEU:HB3	6:O:871:GLN:NE2	2.34	0.42
7:P:72:ASN:HB2	7:P:88:GLU:CB	2.46	0.42
7:P:241:ILE:HG21	7:P:296:TRP:HE1	1.85	0.42
8:Q:162:VAL:O	8:Q:165:LEU:HB3	2.18	0.42
8:Q:237:PRO:HG2	8:Q:461:ILE:HG12	2.02	0.42
8:Q:242:LYS:HD2	8:Q:242:LYS:N	2.35	0.42
8:Q:365:ARG:O	8:Q:369:LEU:HG	2.19	0.42
8:Q:377:ASP:OD1	8:Q:378:ALA:N	2.52	0.42
8:Q:404:ARG:N	8:Q:404:ARG:HD2	2.35	0.42
9:R:570:PRO:HB3	9:R:668:ASN:HB2	2.02	0.42
10:S:233:TYR:CE1	10:S:273:MET:HG3	2.55	0.42
10:S:641:ALA:CB	10:S:700:LEU:HD13	2.48	0.42
10:S:1013:SER:HA	10:S:1079:ARG:NH2	2.32	0.42
10:S:1721:PHE:HB3	10:S:1752:MET:SD	2.59	0.42
10:S:1795:ARG:O	10:S:1796:GLN:HG3	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:52:PRO:HD3	11:T:77:PRO:HA	2.02	0.42
11:T:144:HIS:CD2	11:T:145:LEU:HG	2.55	0.42
12:U:338:VAL:HG22	12:U:341:ARG:NH2	2.31	0.42
12:U:407:VAL:HG12	12:U:454:PHE:CD1	2.55	0.42
12:U:623:PHE:CD2	12:U:624:GLU:HG3	2.55	0.42
12:U:709:ASP:OD1	12:U:710:LEU:N	2.53	0.42
1:A:127:ALA:HA	1:A:130:TYR:CD2	2.55	0.42
1:A:391:TYR:HE1	1:A:395:ASN:OD1	2.03	0.42
1:A:430:ARG:HG2	1:A:431:GLU:OE2	2.20	0.42
1:A:576:LEU:HD12	1:A:602:LEU:HD21	2.02	0.42
2:B:3:ASP:CB	2:B:372:ARG:HB3	2.49	0.42
2:B:3:ASP:HB3	2:B:372:ARG:O	2.20	0.42
2:B:10:VAL:HG12	2:B:366:ALA:CA	2.48	0.42
2:B:47:VAL:HB	2:B:69:LEU:HB2	2.02	0.42
2:B:303:SER:O	2:B:306:ASN:ND2	2.45	0.42
4:D:334:ILE:HD13	4:D:368:GLN:HE22	1.85	0.42
4:D:645:ILE:HD12	4:D:730:ARG:NH2	2.35	0.42
4:D:663:ASN:HA	4:D:666:GLN:OE1	2.20	0.42
4:D:677:PHE:O	4:D:680:GLN:HG3	2.20	0.42
4:D:1004:PHE:CZ	4:D:1036:LEU:HD12	2.53	0.42
4:D:1078:ASN:HB2	4:D:1081:GLU:CG	2.46	0.42
7:G:54:ARG:CG	7:G:55:GLY:N	2.82	0.42
7:G:112:ALA:HB2	7:G:158:TRP:CH2	2.55	0.42
8:H:349:MET:HE2	8:H:352:GLU:HG3	2.00	0.42
8:H:763:GLN:HB2	8:H:790:PHE:HD1	1.85	0.42
8:H:862:TYR:O	8:H:866:LEU:HG	2.20	0.42
8:H:864:ASP:O	8:H:868:LEU:HG	2.20	0.42
1:J:548:GLN:HG2	1:J:550:GLN:OE1	2.20	0.42
2:K:195:TRP:HE1	2:K:204:PRO:HA	1.85	0.42
2:K:267:HIS:HD1	2:K:270:ASN:H	1.68	0.42
3:L:85:VAL:HG11	3:L:153:TRP:CH2	2.54	0.42
4:M:417:ASP:C	9:R:183:LEU:HD21	2.40	0.42
4:M:460:TYR:CG	4:M:531:TRP:HB3	2.54	0.42
4:M:685:GLU:HB2	4:M:873:ASN:HD21	1.83	0.42
4:M:1186:TYR:O	4:M:1190:GLN:HG3	2.20	0.42
5:N:306:ARG:HD2	5:N:307:ARG:HH11	1.85	0.42
6:O:378:LEU:HD12	6:O:416:TRP:HZ2	1.84	0.42
9:R:480:LEU:O	9:R:483:VAL:HG12	2.20	0.42
9:R:931:GLU:HB2	9:R:932:LYS:HZ2	1.84	0.42
10:S:741:PHE:HA	10:S:744:TYR:HD1	1.85	0.42
10:S:1016:ASN:HD22	10:S:1079:ARG:HH22	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:S:1233:VAL:O	10:S:1237:GLU:HG2	2.20	0.42
10:S:1355:PRO:HB3	10:S:1360:GLY:CA	2.49	0.42
12:U:171:GLY:N	12:U:540:PHE:HA	2.34	0.42
12:U:672:ALA:HB2	12:U:690:PHE:HE2	1.85	0.42
1:A:420:ASP:O	1:A:423:ASP:HB3	2.19	0.42
1:A:631:GLU:O	1:A:635:LEU:HG	2.19	0.42
2:B:162:ARG:NH2	2:B:164:ILE:HA	2.34	0.42
4:D:701:LEU:HA	4:D:704:LEU:HB3	2.01	0.42
4:D:1087:HIS:HB3	4:D:1096:ALA:HB2	2.01	0.42
4:D:1135:ARG:HB3	4:D:1138:TYR:CD2	2.55	0.42
5:E:1:MET:H2	5:E:251:ALA:N	2.18	0.42
6:F:382:LEU:O	6:F:386:LEU:HG	2.20	0.42
6:F:393:LEU:HA	6:F:396:SER:OG	2.19	0.42
7:G:218:ALA:HB2	7:G:267:VAL:CG2	2.50	0.42
8:H:180:LEU:CD2	8:H:201:LEU:HD13	2.48	0.42
8:H:242:LYS:HD2	8:H:242:LYS:N	2.35	0.42
8:H:292:THR:HA	8:H:295:THR:HG22	2.01	0.42
8:H:860:LYS:HE2	8:H:860:LYS:HB2	1.91	0.42
9:I:392:MET:CE	9:I:394:LEU:HB2	2.50	0.42
9:I:661:ARG:CD	9:I:681:GLN:HG3	2.45	0.42
9:I:937:LEU:HD13	9:I:957:LEU:HB3	2.01	0.42
1:J:489:ILE:HB	2:K:26:SER:CA	2.49	0.42
1:J:490:ARG:HH11	2:K:25:SER:HA	1.84	0.42
2:K:16:ARG:NH2	2:K:45:VAL:HG22	2.35	0.42
2:K:20:ARG:HG3	2:K:103:HIS:CE1	2.54	0.42
3:L:272:ALA:N	3:L:273:GLN:OE1	2.53	0.42
4:M:448:LEU:HB3	4:M:459:ALA:HB1	2.02	0.42
4:M:1334:ALA:O	4:M:1337:LEU:HB3	2.20	0.42
5:N:150:ARG:HD3	5:N:152:TRP:CZ2	2.55	0.42
5:N:306:ARG:HD2	5:N:307:ARG:NH1	2.34	0.42
6:O:250:SER:N	7:P:265:TRP:HZ3	2.18	0.42
6:O:250:SER:H	7:P:265:TRP:HZ3	1.66	0.42
6:O:393:LEU:HA	6:O:396:SER:OG	2.20	0.42
6:O:720:LEU:HD23	6:O:725:ILE:HD11	2.01	0.42
8:Q:181:LYS:CD	8:Q:201:LEU:HD21	2.48	0.42
8:Q:209:VAL:HB	8:Q:264:TRP:HZ2	1.85	0.42
8:Q:222:ILE:HD11	8:Q:551:LEU:HD22	2.02	0.42
8:Q:685:ALA:O	8:Q:688:ARG:HB2	2.20	0.42
8:Q:687:MET:HA	8:Q:690:PHE:CD2	2.55	0.42
8:Q:748:HIS:CE1	8:Q:752:ASN:HD21	2.38	0.42
9:R:64:HIS:CD2	9:R:65:PRO:HD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:270:TRP:CZ3	9:R:276:PHE:HB2	2.54	0.42
9:R:754:SER:C	9:R:758:GLY:HA3	2.40	0.42
9:R:931:GLU:HG2	9:R:967:PHE:CZ	2.55	0.42
10:S:1090:SER:O	10:S:1094:HIS:ND1	2.52	0.42
10:S:1234:LEU:O	10:S:1238:VAL:HG13	2.20	0.42
10:S:1279:HIS:HA	10:S:1282:GLU:OE1	2.19	0.42
10:S:1316:LEU:O	10:S:1320:ILE:HG22	2.19	0.42
10:S:1436:GLU:H	10:S:1450:ARG:HH22	1.68	0.42
10:S:1877:ARG:NH2	10:S:1880:LYS:HD2	2.35	0.42
11:T:86:PHE:CE2	11:T:88:TRP:HB3	2.55	0.42
11:T:152:PHE:CE1	11:T:211:LEU:HD23	2.55	0.42
11:T:715:LYS:HG3	11:T:716:TRP:CD1	2.55	0.42
12:U:543:THR:HG22	12:U:544:ASP:N	2.35	0.42
12:U:546:ARG:HA	12:U:549:LEU:CD1	2.49	0.42
1:A:25:PHE:CG	1:A:26:SER:N	2.88	0.41
1:A:135:SER:O	1:A:138:SER:OG	2.31	0.41
1:A:357:GLN:O	1:A:361:GLU:HG3	2.20	0.41
1:A:441:PRO:HA	3:C:23:HIS:CE1	2.54	0.41
1:A:445:GLU:HA	2:B:25:SER:CB	2.50	0.41
1:A:532:ARG:NH1	1:A:568:PRO:HD3	2.34	0.41
1:A:569:CYS:N	1:A:605:ARG:HH21	2.18	0.41
1:A:627:ASN:O	1:A:631:GLU:OE1	2.38	0.41
3:C:166:SER:OG	3:C:185:GLY:O	2.38	0.41
4:D:939:ARG:H	4:D:939:ARG:HD3	1.85	0.41
4:D:1143:GLN:C	4:D:1174:ILE:HG13	2.40	0.41
5:E:201:ILE:HG13	5:E:202:LEU:N	2.35	0.41
6:F:684:PRO:HA	6:F:687:ARG:NE	2.35	0.41
6:F:841:LEU:HD21	8:Q:471:ARG:NH1	2.35	0.41
7:G:21:MET:HE1	7:G:28:LEU:HB2	2.01	0.41
7:G:259:LYS:HE2	12:U:280:GLN:CG	2.50	0.41
8:H:820:MET:O	8:H:837:MET:HE3	2.20	0.41
1:J:573:LEU:O	1:J:577:LEU:HG	2.20	0.41
2:K:226:GLN:HB2	2:K:229:VAL:HB	2.01	0.41
2:K:360:CYS:SG	2:K:368:TYR:HB2	2.60	0.41
3:L:42:SER:HB3	3:L:44:ASN:OD1	2.20	0.41
4:M:242:LYS:HD3	4:M:313:TYR:HE1	1.85	0.41
4:M:611:GLN:O	4:M:615:MET:HG3	2.20	0.41
4:M:640:ARG:O	4:M:643:GLU:HG3	2.20	0.41
4:M:649:LEU:HB2	4:M:658:MET:CE	2.50	0.41
4:M:725:ARG:HA	4:M:728:ILE:HD12	2.02	0.41
5:N:125:GLY:HA3	5:N:145:ASP:OD1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:293:SER:H	10:S:724:LEU:HA	1.85	0.41
6:O:530:ASP:O	6:O:534:THR:HG23	2.20	0.41
6:O:603:HIS:HD2	6:O:606:LYS:HZ1	1.67	0.41
6:O:646:TYR:HA	6:O:648:HIS:CE1	2.55	0.41
7:P:20:GLN:CB	7:P:65:TRP:HE1	2.18	0.41
7:P:110:CYS:O	7:P:120:LEU:HA	2.20	0.41
8:Q:433:CYS:CB	8:Q:438:ASP:HB3	2.47	0.41
8:Q:443:HIS:CE1	8:Q:486:GLU:HB3	2.55	0.41
8:Q:718:TRP:HD1	8:Q:724:ASP:OD1	2.02	0.41
9:R:559:PRO:CB	9:R:565:TRP:HB3	2.50	0.41
9:R:1054:LYS:O	9:R:1058:LEU:HG	2.19	0.41
10:S:154:LYS:NZ	10:S:162:HIS:H	2.17	0.41
10:S:357:ALA:O	10:S:361:ILE:HG12	2.20	0.41
10:S:383:GLU:HG2	10:S:452:PHE:CD2	2.55	0.41
10:S:531:LEU:HA	10:S:534:ASN:HB2	2.02	0.41
10:S:609:GLU:OE2	10:S:612:ARG:NH2	2.40	0.41
11:T:474:ASN:HA	11:T:491:THR:OG1	2.20	0.41
12:U:35:GLU:O	12:U:38:GLN:HB3	2.20	0.41
1:A:329:SER:HA	1:A:332:MET:HE3	2.02	0.41
1:A:347:LEU:O	1:A:350:ALA:HB3	2.20	0.41
1:A:541:GLU:HA	1:A:544:ARG:NE	2.34	0.41
3:C:78:SER:OG	3:C:79:PHE:N	2.53	0.41
4:D:410:TRP:CD1	4:D:424:HIS:HB3	2.55	0.41
6:F:622:SER:HB3	6:F:628:PRO:HB3	2.01	0.41
6:F:655:GLY:HA2	6:F:658:HIS:ND1	2.35	0.41
7:G:242:TRP:CZ2	7:G:254:PRO:HB3	2.56	0.41
8:H:173:CYS:SG	8:H:204:LEU:HD11	2.60	0.41
8:H:437:GLU:O	8:H:441:TRP:HB2	2.21	0.41
8:H:443:HIS:CE1	8:H:486:GLU:HB3	2.55	0.41
8:H:492:LYS:HB3	8:H:493:LYS:H	1.73	0.41
9:I:242:MET:CE	9:I:243:LEU:H	2.32	0.41
9:I:782:ARG:O	9:I:785:LEU:HB3	2.20	0.41
9:I:1086:VAL:O	9:I:1090:GLN:OE1	2.38	0.41
1:J:293:LEU:HA	1:J:296:ARG:HG3	2.02	0.41
1:J:441:PRO:HB2	3:L:25:ARG:HD2	2.02	0.41
1:J:551:PHE:HD2	1:J:590:PHE:CZ	2.38	0.41
1:J:557:LEU:HD23	1:J:558:LEU:HD22	2.01	0.41
3:L:289:THR:O	3:L:289:THR:HG22	2.20	0.41
4:M:1185:GLU:OE2	4:M:1192:ARG:NH2	2.53	0.41
4:M:1314:LEU:HD13	4:M:1314:LEU:HA	1.94	0.41
4:M:1383:PHE:O	4:M:1385:TYR:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:287:PHE:HE1	10:S:575:ASN:OD1	2.03	0.41
6:O:455:ARG:CZ	6:O:459:LYS:HE2	2.50	0.41
6:O:622:SER:OG	6:O:628:PRO:HA	2.21	0.41
6:O:671:TRP:CZ2	6:O:710:LYS:HD2	2.55	0.41
7:P:35:ARG:HH22	7:P:60:VAL:HG23	1.84	0.41
8:Q:803:ASP:O	8:Q:807:LYS:HG2	2.19	0.41
9:R:812:ASN:HB3	9:R:815:ARG:CD	2.50	0.41
10:S:53:LEU:O	10:S:54:PHE:HB2	2.20	0.41
10:S:190:ILE:HA	10:S:225:GLN:OE1	2.20	0.41
10:S:272:LEU:O	10:S:276:LEU:HG	2.19	0.41
10:S:502:LEU:H	10:S:547:GLY:N	2.17	0.41
10:S:1113:LEU:HA	10:S:1113:LEU:HD23	1.61	0.41
10:S:1918:ASP:OD2	10:S:1955:SER:OG	2.37	0.41
11:T:129:VAL:HG12	11:T:158:VAL:HG23	2.02	0.41
11:T:187:LEU:HD23	11:T:210:HIS:HB2	2.02	0.41
11:T:532:VAL:HB	11:T:537:LEU:HD11	2.02	0.41
12:U:171:GLY:O	12:U:542:PRO:HB2	2.19	0.41
12:U:441:PHE:O	12:U:445:LEU:HG	2.20	0.41
1:A:446:LYS:HE2	1:A:447:LYS:HZ3	1.85	0.41
1:A:476:LEU:HB2	1:A:484:ALA:HB2	2.02	0.41
4:D:40:VAL:HG21	11:T:90:LYS:NZ	2.35	0.41
4:D:329:PRO:HD2	11:T:115:LYS:NZ	2.35	0.41
4:D:413:TRP:HE3	4:D:421:VAL:HG23	1.85	0.41
4:D:672:ILE:HA	4:D:675:ILE:HG12	2.02	0.41
4:D:1107:LEU:HB3	4:D:1120:GLN:NE2	2.35	0.41
4:D:1128:LEU:HA	4:D:1131:LEU:HB2	2.02	0.41
4:D:1218:LEU:HD13	4:D:1227:ALA:HA	2.01	0.41
5:E:223:ARG:HH12	5:E:264:GLU:HB2	1.84	0.41
6:F:668:VAL:HG23	6:F:670:LEU:HD23	2.01	0.41
6:F:911:GLY:HA2	6:F:914:GLN:HE22	1.86	0.41
7:G:256:LEU:H	7:G:256:LEU:HD23	1.85	0.41
8:H:147:TYR:N	8:H:148:PRO:HD2	2.35	0.41
8:H:757:HIS:CE1	8:H:797:LEU:HB2	2.55	0.41
8:H:843:LEU:O	8:H:846:PRO:HD2	2.20	0.41
9:I:772:LYS:O	9:I:775:PRO:HD2	2.21	0.41
9:I:794:ASN:HA	9:I:797:LEU:HG	2.02	0.41
9:I:853:PHE:O	9:I:857:VAL:HG23	2.21	0.41
9:I:857:VAL:O	9:I:861:GLU:OE1	2.38	0.41
9:I:1092:LEU:HB3	9:I:1097:ILE:HB	2.01	0.41
1:J:70:LYS:CA	2:K:245:ARG:HH21	2.31	0.41
2:K:287:ASP:HB2	2:K:294:LYS:HG2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:46:TYR:CD1	4:M:573:PRO:HA	2.55	0.41
4:M:522:GLU:O	4:M:526:ILE:HG13	2.20	0.41
4:M:1077:HIS:HB3	4:M:1079:TYR:CE2	2.55	0.41
4:M:1088:ILE:HD12	4:M:1088:ILE:H	1.85	0.41
4:M:1363:LYS:NZ	4:M:1373:PRO:HA	2.35	0.41
5:N:106:ILE:HD13	5:N:106:ILE:HA	1.93	0.41
5:N:213:SER:CB	5:N:256:MET:HA	2.50	0.41
6:O:325:LEU:HD22	6:O:636:HIS:HE1	1.85	0.41
6:O:342:HIS:CG	6:O:687:ARG:HH12	2.38	0.41
6:O:382:LEU:O	6:O:386:LEU:HG	2.20	0.41
6:O:444:TYR:CD1	6:O:449:ARG:HD3	2.55	0.41
6:O:540:TRP:HB2	6:O:541:TYR:CE2	2.55	0.41
6:O:774:ARG:HE	6:O:777:ARG:NH1	2.17	0.41
8:Q:693:SER:HB2	8:Q:695:LYS:NZ	2.35	0.41
8:Q:784:LYS:NZ	8:Q:787:GLU:OE1	2.29	0.41
9:R:496:ARG:HB3	9:R:507:LYS:HD2	2.02	0.41
9:R:555:ILE:HG13	9:R:556:ASP:N	2.35	0.41
10:S:285:GLU:CD	10:S:487:ARG:HG2	2.39	0.41
10:S:315:GLN:OE1	10:S:356:MET:HE2	2.19	0.41
10:S:501:LEU:HD12	10:S:546:GLY:HA2	2.02	0.41
10:S:1104:ILE:HA	10:S:1107:MET:CE	2.51	0.41
10:S:1268:ASN:O	10:S:1272:GLN:OE1	2.39	0.41
11:T:68:TYR:CE1	11:T:115:LYS:HA	2.54	0.41
11:T:858:LEU:HD22	11:T:884:ASN:CB	2.50	0.41
12:U:174:GLY:N	12:U:544:ASP:OD2	2.53	0.41
1:A:26:SER:O	1:A:33:LEU:CB	2.48	0.41
1:A:435:LEU:O	1:A:438:GLU:HG3	2.20	0.41
2:B:115:ARG:H	2:B:158:ARG:NE	2.18	0.41
2:B:183:ILE:O	2:B:194:LEU:HD12	2.19	0.41
2:B:307:ILE:O	2:B:308:SER:OG	2.34	0.41
3:C:142:TYR:HB3	3:C:153:TRP:HE3	1.85	0.41
4:D:47:MET:HB2	4:D:574:CYS:SG	2.61	0.41
4:D:1077:HIS:CG	4:D:1078:ASN:N	2.87	0.41
4:D:1180:ARG:HG3	4:D:1184:LYS:HE2	2.03	0.41
6:F:613:TYR:CA	12:U:187:ARG:NH2	2.83	0.41
8:H:419:TYR:CD1	8:H:422:LEU:HD12	2.53	0.41
9:I:655:GLN:HE22	9:I:656:LEU:HG	1.85	0.41
9:I:804:LEU:HD11	9:I:823:TYR:CD2	2.55	0.41
9:I:1121:ASN:HB3	9:I:1124:PHE:HB3	2.03	0.41
1:J:569:CYS:HA	1:J:572:TRP:CE3	2.55	0.41
1:J:626:ASP:O	1:J:630:VAL:HG23	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:74:HIS:CE1	2:K:93:SER:HB2	2.55	0.41
2:K:132:THR:N	2:K:144:VAL:O	2.54	0.41
2:K:153:PHE:CE1	2:K:160:VAL:HA	2.55	0.41
2:K:273:HIS:NE2	2:K:374:PHE:O	2.53	0.41
3:L:61:TRP:HD1	3:L:78:SER:HA	1.85	0.41
3:L:86:TRP:HE1	3:L:105:LYS:HZ3	1.67	0.41
3:L:306:LYS:O	3:L:314:LYS:HG2	2.19	0.41
4:M:159:GLN:OE1	4:M:210:ARG:HB3	2.20	0.41
4:M:456:PRO:HG2	4:M:524:ARG:O	2.21	0.41
4:M:484:LYS:HD3	9:R:457:LYS:HB2	2.02	0.41
4:M:705:TYR:OH	4:M:852:LEU:HD13	2.21	0.41
4:M:1407:ILE:O	4:M:1411:LEU:HD23	2.20	0.41
5:N:126:TYR:N	5:N:145:ASP:OD2	2.53	0.41
5:N:225:GLY:HA3	5:N:257:PHE:CZ	2.55	0.41
6:O:335:ASP:OD2	6:O:344:ARG:HG2	2.20	0.41
6:O:382:LEU:HA	6:O:382:LEU:HD23	1.70	0.41
6:O:488:ASP:O	6:O:492:LEU:HG	2.19	0.41
8:Q:505:ILE:HG23	8:Q:508:LYS:HE3	2.02	0.41
8:Q:742:ARG:O	8:Q:745:LEU:HG	2.20	0.41
8:Q:827:THR:O	8:Q:831:PRO:HD3	2.20	0.41
10:S:393:VAL:O	10:S:397:PRO:HD3	2.20	0.41
10:S:1285:ARG:O	10:S:1286:GLN:C	2.59	0.41
10:S:1421:TYR:OH	10:S:1483:ASP:OD2	2.29	0.41
11:T:635:CYS:O	11:T:638:ALA:N	2.53	0.41
11:T:697:ILE:HG23	11:T:701:TYR:HE2	1.84	0.41
12:U:57:ASN:CG	12:U:78:LEU:HD22	2.41	0.41
12:U:99:GLN:HG2	12:U:100:GLY:N	2.35	0.41
12:U:262:TYR:HA	12:U:265:GLN:CD	2.40	0.41
12:U:263:LEU:HD11	12:U:328:ARG:HH22	1.85	0.41
1:A:514:PHE:CE2	1:A:540:ARG:HD2	2.55	0.41
2:B:242:TRP:HA	2:B:249:MET:O	2.20	0.41
3:C:73:VAL:O	3:C:74:LEU:HD12	2.20	0.41
3:C:91:GLY:C	3:C:92:GLU:HG3	2.41	0.41
3:C:211:LYS:HE2	3:C:213:GLU:C	2.40	0.41
5:E:174:HIS:HB2	5:E:216:TRP:CZ2	2.55	0.41
8:H:177:ILE:HD12	8:H:208:MET:CE	2.50	0.41
9:I:139:PRO:HD3	9:I:177:ARG:HD2	2.01	0.41
9:I:1100:LYS:HA	9:I:1136:MET:HG2	2.01	0.41
1:J:409:PHE:CD1	1:J:415:TRP:HA	2.47	0.41
2:K:239:LEU:HD11	2:K:335:LEU:HD11	2.01	0.41
3:L:87:GLU:CG	3:L:104:VAL:HB	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:79:TYR:HE1	4:M:215:THR:HG22	1.85	0.41
4:M:197:ASP:C	4:M:199:ASN:H	2.24	0.41
4:M:207:ILE:HA	4:M:208:PRO:HA	1.81	0.41
4:M:587:HIS:O	4:M:591:VAL:HG23	2.20	0.41
4:M:634:HIS:ND1	4:M:636:GLN:OE1	2.51	0.41
4:M:1106:ARG:HE	4:M:1149:VAL:CG2	2.34	0.41
4:M:1125:LEU:O	4:M:1128:LEU:HB3	2.20	0.41
6:O:355:TYR:O	6:O:359:VAL:HG23	2.21	0.41
6:O:435:GLU:HB2	6:O:436:ARG:NH1	2.35	0.41
6:O:839:VAL:HG13	6:O:856:MET:HG2	2.01	0.41
8:Q:152:LYS:O	8:Q:156:GLU:OE1	2.38	0.41
9:R:960:LEU:O	9:R:963:LEU:HG	2.20	0.41
9:R:1051:GLU:CD	9:R:1104:PRO:HD3	2.40	0.41
10:S:595:ILE:HG13	10:S:596:ALA:N	2.35	0.41
10:S:799:GLY:O	10:S:800:PHE:C	2.58	0.41
10:S:799:GLY:C	10:S:803:MET:HE1	2.41	0.41
10:S:803:MET:O	10:S:806:LEU:N	2.53	0.41
10:S:1934:PHE:HZ	10:S:1950:ARG:HH21	1.68	0.41
11:T:466:GLN:O	11:T:472:THR:OG1	2.23	0.41
11:T:839:TRP:O	11:T:843:GLN:HG2	2.20	0.41
12:U:441:PHE:CZ	12:U:445:LEU:HD11	2.56	0.41
12:U:728:VAL:HG13	12:U:796:PHE:HB2	2.02	0.41
1:A:344:ASP:OD1	1:A:344:ASP:N	2.53	0.41
1:A:370:TRP:CD1	1:A:404:TYR:CE1	3.06	0.41
1:A:453:ARG:HA	1:A:456:GLU:OE2	2.20	0.41
1:A:565:ARG:C	1:A:565:ARG:HH11	2.24	0.41
2:B:73:LYS:HZ2	6:O:278:ARG:H	1.69	0.41
2:B:104:HIS:HB3	2:B:107:ASN:HB2	2.03	0.41
2:B:184:LEU:HD21	2:B:194:LEU:HD13	2.02	0.41
2:B:346:LEU:HB2	2:B:364:ALA:N	2.36	0.41
4:D:41:ASN:HD21	4:D:429:ARG:NH1	2.16	0.41
4:D:310:MET:SD	4:D:382:TYR:HB2	2.59	0.41
4:D:870:TRP:HB3	4:D:873:ASN:HB2	2.03	0.41
4:D:1235:LYS:HA	4:D:1235:LYS:HE2	2.03	0.41
6:F:339:PRO:HB2	6:F:724:TRP:HE1	1.85	0.41
6:F:406:ASN:HB3	6:F:548:THR:HA	2.01	0.41
6:F:435:GLU:HB2	6:F:436:ARG:NH1	2.36	0.41
6:F:492:LEU:HB3	6:F:494:VAL:HG23	2.02	0.41
8:H:212:ARG:NH2	8:H:267:SER:OG	2.54	0.41
8:H:525:TRP:HB3	8:H:533:LEU:HD21	2.02	0.41
9:I:576:PHE:CZ	11:T:642:GLU:O	2.72	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:822:GLU:HA	9:I:825:GLN:NE2	2.36	0.41
1:J:594:GLN:HA	1:J:597:GLU:OE2	2.20	0.41
1:J:605:ARG:HG2	1:J:609:LYS:NZ	2.35	0.41
1:J:648:GLU:O	1:J:651:LEU:HB2	2.20	0.41
2:K:208:PHE:HD1	2:K:248:LYS:HG3	1.85	0.41
4:M:392:THR:HG22	4:M:393:ASN:H	1.86	0.41
4:M:615:MET:HA	4:M:618:ASP:OD2	2.20	0.41
4:M:863:SER:O	4:M:867:GLN:HG3	2.21	0.41
4:M:1094:ARG:HA	4:M:1131:LEU:CD2	2.51	0.41
4:M:1209:SER:HA	4:M:1213:GLU:OE1	2.21	0.41
4:M:1351:GLU:O	4:M:1352:LEU:C	2.58	0.41
5:N:23:GLU:O	5:N:36:LEU:HD12	2.21	0.41
6:O:424:ARG:O	6:O:428:GLU:OE1	2.38	0.41
6:O:485:GLN:O	6:O:488:ASP:HB2	2.20	0.41
6:O:606:LYS:HE2	6:O:606:LYS:HB2	1.87	0.41
6:O:619:LEU:HD13	6:O:634:SER:O	2.20	0.41
6:O:684:PRO:N	6:O:687:ARG:HH21	2.19	0.41
6:O:720:LEU:HD12	6:O:721:PRO:HD2	2.02	0.41
8:Q:365:ARG:O	8:Q:368:THR:OG1	2.25	0.41
8:Q:574:GLU:C	8:Q:575:LYS:HG3	2.41	0.41
8:Q:703:PHE:HA	8:Q:706:ILE:HG12	2.02	0.41
8:Q:805:LYS:HA	8:Q:808:ILE:HD12	2.02	0.41
9:R:304:ARG:O	9:R:307:ARG:HB2	2.21	0.41
9:R:565:TRP:HA	9:R:568:SER:HB3	2.02	0.41
9:R:716:THR:HA	9:R:719:LYS:HZ3	1.84	0.41
9:R:783:THR:O	9:R:786:ILE:HG22	2.20	0.41
9:R:800:TYR:HD2	9:R:823:TYR:HD1	1.68	0.41
9:R:839:GLN:HB3	9:R:842:TRP:HD1	1.82	0.41
10:S:374:VAL:HG21	10:S:446:LEU:HD21	2.01	0.41
10:S:511:LEU:HB3	10:S:515:ARG:HH12	1.86	0.41
10:S:671:GLN:C	10:S:674:ARG:HH12	2.24	0.41
10:S:674:ARG:NE	10:S:674:ARG:HA	2.35	0.41
10:S:1665:SER:O	10:S:1669:LEU:HG	2.21	0.41
11:T:633:LEU:HB3	11:T:655:GLN:NE2	2.34	0.41
11:T:951:LEU:HG	11:T:955:HIS:HE1	1.78	0.41
12:U:31:ARG:HH22	12:U:35:GLU:CG	2.32	0.41
12:U:117:SER:O	12:U:121:THR:HG23	2.21	0.41
12:U:231:MET:HA	12:U:234:VAL:HG22	2.03	0.41
12:U:415:LEU:HD11	12:U:466:VAL:HG22	2.03	0.41
12:U:674:ARG:HB3	12:U:678:GLN:OE1	2.20	0.41
12:U:693:LEU:O	12:U:696:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:73:ASN:HB3	1:A:74:GLU:OE1	2.21	0.41
1:A:545:MET:HB3	1:A:554:ALA:HB2	2.02	0.41
2:B:245:ARG:NH1	2:B:246:HIS:CD2	2.88	0.41
2:B:346:LEU:HD23	10:S:747:ARG:HH21	1.85	0.41
3:C:106:ARG:NH1	3:C:150:LEU:HB2	2.34	0.41
3:C:316:ILE:O	3:C:316:ILE:HG22	2.21	0.41
4:D:1151:GLU:HB3	4:D:1152:ARG:HH11	1.86	0.41
4:D:1307:HIS:CE1	4:D:1328:TYR:OH	2.73	0.41
5:E:18:TYR:H	5:E:317:ARG:NH1	2.19	0.41
6:F:455:ARG:CZ	6:F:459:LYS:HE2	2.50	0.41
6:F:721:PRO:HB2	6:F:723:GLN:HG2	2.03	0.41
6:F:757:LYS:O	6:F:760:THR:OG1	2.33	0.41
6:F:913:THR:HA	11:T:997:TYR:OH	2.20	0.41
7:G:62:GLN:HG3	7:G:109:VAL:HG22	2.03	0.41
7:G:163:ILE:HD11	7:G:219:TRP:HE1	1.86	0.41
8:H:773:PHE:HZ	1:J:563:THR:HG23	1.82	0.41
9:I:783:THR:O	9:I:787:GLU:OE1	2.38	0.41
9:I:971:VAL:HG12	9:I:975:LYS:HZ3	1.85	0.41
9:I:979:ILE:HA	9:I:982:GLN:HG2	2.02	0.41
1:J:23:ILE:HD12	1:J:35:TYR:O	2.20	0.41
1:J:65:SER:OG	1:J:66:PRO:HD2	2.21	0.41
1:J:113:MET:O	1:J:117:HIS:CG	2.73	0.41
1:J:474:GLN:NE2	1:J:478:ASN:OD1	2.52	0.41
3:L:240:VAL:HG12	3:L:242:THR:HG23	2.03	0.41
4:M:104:HIS:NE2	4:M:115:VAL:HB	2.36	0.41
4:M:374:LEU:HD22	4:M:382:TYR:HB3	2.02	0.41
4:M:1069:ALA:HB1	4:M:1080:TYR:CZ	2.56	0.41
4:M:1179:LEU:HB3	4:M:1180:ARG:NH2	2.36	0.41
4:M:1228:ILE:CD1	4:M:1297:LYS:HZ1	2.34	0.41
4:M:1356:TYR:O	4:M:1360:LEU:HG	2.21	0.41
4:M:1407:ILE:HD13	4:M:1410:LYS:NZ	2.36	0.41
5:N:147:HIS:HA	5:N:168:GLY:H	1.85	0.41
5:N:254:ALA:HA	5:N:270:THR:O	2.20	0.41
6:O:424:ARG:HA	6:O:427:GLU:HG2	2.02	0.41
6:O:747:LEU:HD12	6:O:783:LEU:HD23	2.02	0.41
7:P:61:TRP:HE1	7:P:105:SER:HG	1.68	0.41
7:P:70:TYR:HB2	7:P:73:ILE:HD11	2.03	0.41
8:Q:242:LYS:HB2	8:Q:376:HIS:CD2	2.54	0.41
8:Q:420:ALA:O	8:Q:429:LEU:HD11	2.19	0.41
8:Q:509:PHE:HD2	8:Q:518:LEU:HD13	1.86	0.41
9:R:125:SER:HA	9:R:129:LYS:HZ3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:R:367:ASP:HA	9:R:372:ILE:HA	2.01	0.41
9:R:562:ASP:N	9:R:565:TRP:HD1	2.11	0.41
9:R:818:ILE:HA	9:R:821:MET:HE3	2.03	0.41
9:R:889:TYR:CE2	9:R:901:GLN:HG2	2.55	0.41
10:S:13:LEU:O	10:S:138:GLY:HA3	2.21	0.41
10:S:196:ASN:N	10:S:196:ASN:OD1	2.54	0.41
10:S:507:TYR:OH	10:S:549:PRO:O	2.26	0.41
10:S:1268:ASN:HA	10:S:1271:LEU:HD12	2.03	0.41
10:S:1672:LEU:O	10:S:1676:THR:HG23	2.20	0.41
11:T:961:TYR:HD2	11:T:1001:LEU:HD13	1.86	0.41
1:A:394:ALA:HB2	3:C:309:TYR:CD2	2.56	0.41
2:B:15:SER:HB3	2:B:38:TRP:CA	2.50	0.41
2:B:179:ARG:HH22	2:B:181:THR:HG1	1.66	0.41
2:B:372:ARG:HH11	2:B:373:LEU:N	2.17	0.41
3:C:62:ARG:NH2	3:C:118:ASP:HA	2.35	0.41
3:C:270:THR:O	3:C:272:ALA:N	2.53	0.41
4:D:431:GLN:C	11:T:110:ASP:O	2.59	0.41
4:D:478:ALA:HA	4:D:481:ILE:HG22	2.01	0.41
4:D:1013:ASN:HD21	4:D:1043:ARG:HH22	1.68	0.41
4:D:1055:VAL:HG11	11:T:957:GLN:HA	2.03	0.41
4:D:1135:ARG:HH11	4:D:1136:PRO:HD2	1.85	0.41
4:D:1393:LEU:HD22	6:F:299:GLU:CD	2.41	0.41
5:E:134:SER:HB2	5:E:137:GLY:CA	2.51	0.41
6:F:383:CYS:HB3	6:F:637:MET:SD	2.42	0.41
6:F:648:HIS:CG	12:U:175:ARG:HH21	2.37	0.41
6:F:769:ILE:HG12	6:F:855:GLU:OE2	2.20	0.41
7:G:65:TRP:HA	7:G:74:LEU:HD23	2.02	0.41
7:G:301:ASP:OD1	7:G:302:VAL:N	2.54	0.41
8:H:243:THR:O	8:H:247:LYS:HG3	2.21	0.41
8:H:404:ARG:HD2	8:H:404:ARG:N	2.35	0.41
8:H:703:PHE:HA	8:H:706:ILE:HD12	2.03	0.41
9:I:309:TYR:CD2	9:I:376:ILE:HB	2.55	0.41
9:I:499:GLN:HG3	9:I:500:ILE:H	1.84	0.41
9:I:788:GLN:O	9:I:792:LEU:HG	2.21	0.41
9:I:856:LEU:HA	9:I:859:ILE:HG12	2.03	0.41
1:J:141:GLU:O	1:J:144:TRP:HB3	2.21	0.41
1:J:390:LEU:C	1:J:392:PHE:H	2.22	0.41
1:J:486:SER:HB3	1:J:490:ARG:NH1	2.27	0.41
1:J:620:LYS:HB3	1:J:620:LYS:HE2	1.90	0.41
1:J:632:MET:O	1:J:635:LEU:HB3	2.21	0.41
4:M:119:LEU:HD21	4:M:559:MET:HG3	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:M:414:LEU:HD23	4:M:420:THR:HG23	2.02	0.41
4:M:976:GLU:O	4:M:980:GLN:HG2	2.20	0.41
4:M:1063:GLY:O	4:M:1066:GLU:HG3	2.20	0.41
4:M:1183:GLU:HB2	4:M:1184:LYS:NZ	2.36	0.41
4:M:1191:THR:O	4:M:1195:LEU:HG	2.20	0.41
5:N:75:VAL:HG11	5:N:78:ILE:HD11	2.03	0.41
6:O:372:VAL:HB	6:O:376:TRP:CZ2	2.56	0.41
6:O:532:LYS:H	6:O:532:LYS:HG3	1.64	0.41
7:P:89:GLU:OE1	7:P:89:GLU:N	2.54	0.41
8:Q:188:THR:OG1	8:Q:191:GLN:OE1	2.22	0.41
8:Q:292:THR:HA	8:Q:295:THR:HG22	2.02	0.41
8:Q:296:LEU:HA	8:Q:299:ARG:HD2	2.03	0.41
8:Q:419:TYR:CD1	8:Q:422:LEU:HD12	2.53	0.41
9:R:512:ALA:HA	9:R:527:MET:CE	2.50	0.41
10:S:273:MET:HE1	10:S:384:PHE:O	2.21	0.41
10:S:388:ARG:NH2	10:S:392:LEU:HD21	2.36	0.41
10:S:672:THR:N	10:S:674:ARG:HH12	2.19	0.41
10:S:1178:ARG:HB3	10:S:1181:LEU:HB3	2.03	0.41
10:S:1216:HIS:NE2	10:S:1225:CYS:HA	2.36	0.41
10:S:1246:ALA:O	10:S:1249:GLN:N	2.51	0.41
10:S:1305:ARG:NH2	10:S:1347:SER:OG	2.53	0.41
11:T:690:PRO:HB3	11:T:785:PHE:O	2.21	0.41
11:T:715:LYS:HZ2	11:T:716:TRP:HE1	1.69	0.41
11:T:849:LEU:HD11	11:T:880:VAL:HG22	2.02	0.41
12:U:371:LYS:HB2	12:U:371:LYS:HE2	1.79	0.41
12:U:451:GLU:HG3	12:U:463:TYR:CE1	2.55	0.41
12:U:657:PRO:HA	12:U:662:GLU:OE2	2.20	0.41
1:A:136:ILE:HG13	1:A:137:LEU:N	2.36	0.41
1:A:139:ALA:O	1:A:142:LEU:HG	2.20	0.41
1:A:182:VAL:HA	1:A:191:HIS:CG	2.55	0.41
1:A:188:PRO:O	1:A:194:PHE:HB2	2.20	0.41
1:A:238:MET:HE2	1:A:238:MET:HB2	1.90	0.41
1:A:310:LEU:HD21	1:A:317:VAL:HG11	2.02	0.41
1:A:330:LEU:CD1	1:A:348:LEU:HD11	2.51	0.41
1:A:581:PRO:O	1:A:584:GLU:HB3	2.20	0.41
1:A:583:LEU:HA	1:A:590:PHE:CZ	2.56	0.41
2:B:1:MET:O	2:B:375:SER:HB2	2.19	0.41
2:B:15:SER:HA	2:B:349:ASN:HB2	2.02	0.41
2:B:177:PHE:O	2:B:222:ARG:HD3	2.21	0.41
3:C:16:HIS:NE2	3:C:59:SER:HB3	2.36	0.41
3:C:27:MET:HE3	3:C:27:MET:HB3	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:227:PHE:HB3	3:C:236:HIS:HE1	1.79	0.41
4:D:44:ARG:HD2	4:D:573:PRO:HB3	2.03	0.41
4:D:365:ARG:HH12	11:T:69:HIS:CE1	2.39	0.41
4:D:690:MET:SD	4:D:875:ASN:ND2	2.94	0.41
4:D:999:LEU:HD12	4:D:1000:ARG:HG3	2.02	0.41
4:D:1048:ASP:HA	4:D:1051:GLU:OE1	2.21	0.41
4:D:1062:VAL:HA	4:D:1065:ILE:CG2	2.51	0.41
5:E:6:ALA:HA	5:E:293:ILE:HB	2.03	0.41
5:E:74:ARG:O	5:E:100:GLY:N	2.54	0.41
5:E:220:ASN:HD22	5:E:223:ARG:NH1	2.19	0.41
5:E:292:LEU:HD21	5:E:322:TRP:HB3	2.03	0.41
6:F:267:LYS:HE2	6:F:270:GLU:N	2.36	0.41
6:F:303:LYS:HD2	6:F:303:LYS:C	2.41	0.41
6:F:316:LYS:HA	6:F:316:LYS:HD2	1.79	0.41
6:F:342:HIS:CE1	6:F:687:ARG:NH1	2.89	0.41
6:F:355:TYR:O	6:F:359:VAL:HG23	2.21	0.41
6:F:368:GLU:N	6:F:368:GLU:OE1	2.54	0.41
6:F:380:TRP:CD2	6:F:633:LEU:HG	2.56	0.41
6:F:755:CYS:SG	6:F:779:PHE:HZ	2.44	0.41
6:F:768:VAL:HG13	6:F:769:ILE:HG13	2.02	0.41
6:F:796:GLU:HA	6:F:800:LYS:NZ	2.33	0.41
7:G:20:GLN:HB2	7:G:65:TRP:NE1	2.32	0.41
7:G:268:SER:C	7:G:276:LEU:HD12	2.41	0.41
8:H:437:GLU:OE1	8:H:498:GLU:OE2	2.39	0.41
8:H:495:VAL:O	8:H:495:VAL:HG12	2.21	0.41
8:H:611:ARG:HE	8:H:614:GLU:CD	2.23	0.41
8:H:753:GLU:HG3	8:H:756:LYS:HZ1	1.84	0.41
9:I:99:MET:HG3	9:I:100:ALA:N	2.33	0.41
9:I:220:LEU:H	9:I:240:GLN:HE21	1.68	0.41
9:I:868:ARG:O	9:I:872:TYR:HD2	2.04	0.41
9:I:1065:ASP:CG	9:I:1083:SER:HB3	2.41	0.41
1:J:30:GLY:HA3	1:J:410:SER:OG	2.21	0.41
1:J:58:ARG:NH2	1:J:63:ILE:HG21	2.35	0.41
1:J:106:ARG:CZ	1:J:144:TRP:CD1	3.03	0.41
1:J:358:VAL:HA	1:J:361:GLU:OE1	2.20	0.41
1:J:395:ASN:HB3	1:J:397:ARG:HG2	2.01	0.41
1:J:503:ARG:NH1	1:J:506:LYS:HE2	2.35	0.41
1:J:603:GLU:OE2	4:M:1125:LEU:HD11	2.21	0.41
2:K:120:HIS:CE1	2:K:144:VAL:HA	2.56	0.41
2:K:264:VAL:HG11	2:K:286:TRP:CZ3	2.55	0.41
3:L:22:PHE:C	3:L:24:GLY:H	2.25	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:166:SER:HB3	3:L:187:ASP:H	1.85	0.41
3:L:280:GLN:O	3:L:298:ASP:N	2.54	0.41
4:M:257:LEU:HB3	4:M:311:TRP:CG	2.56	0.41
4:M:365:ARG:O	4:M:394:GLN:HB3	2.20	0.41
4:M:373:GLN:HG3	4:M:387:THR:OG1	2.21	0.41
4:M:844:GLY:HA3	4:M:850:ARG:NE	2.36	0.41
4:M:1291:MET:O	4:M:1295:LEU:HG	2.21	0.41
5:N:45:VAL:HG22	5:N:68:THR:HG23	2.02	0.41
5:N:294:GLY:HA3	5:N:322:TRP:CZ2	2.56	0.41
6:O:240:MET:HG3	6:O:243:MET:SD	2.60	0.41
6:O:248:GLY:C	6:O:249:ARG:HD2	2.42	0.41
6:O:662:ALA:HB1	6:O:674:ALA:HB1	2.03	0.41
6:O:685:HIS:CE1	7:P:166:SER:O	2.74	0.41
6:O:774:ARG:HA	6:O:777:ARG:NH1	2.36	0.41
7:P:27:ARG:C	7:P:28:LEU:HD22	2.42	0.41
7:P:27:ARG:NH1	7:P:65:TRP:HH2	2.19	0.41
8:Q:177:ILE:HG23	8:Q:205:GLN:NE2	2.36	0.41
8:Q:233:GLU:OE2	8:Q:247:LYS:HB3	2.21	0.41
8:Q:243:THR:O	8:Q:247:LYS:HG3	2.20	0.41
8:Q:280:ILE:HG23	8:Q:283:TYR:CD2	2.55	0.41
8:Q:437:GLU:O	8:Q:441:TRP:HB2	2.21	0.41
8:Q:676:ARG:NH2	8:Q:717:GLN:HG3	2.34	0.41
8:Q:751:PHE:HZ	12:U:813:VAL:HG21	1.85	0.41
8:Q:827:THR:HG22	8:Q:831:PRO:HA	2.02	0.41
8:Q:846:PRO:HB3	8:Q:887:GLU:CD	2.42	0.41
8:Q:874:SER:O	8:Q:879:LEU:CB	2.69	0.41
9:R:300:TRP:CH2	9:R:306:LEU:HD11	2.56	0.41
9:R:342:LEU:N	9:R:365:VAL:O	2.53	0.41
9:R:607:PHE:HA	9:R:610:LEU:HG	2.03	0.41
9:R:682:MET:O	9:R:685:ILE:HG22	2.21	0.41
9:R:853:PHE:O	9:R:857:VAL:HG13	2.21	0.41
9:R:934:HIS:CE1	9:R:962:ALA:HB2	2.55	0.41
10:S:67:VAL:HG21	10:S:105:GLU:HB3	2.03	0.41
10:S:163:SER:O	10:S:167:VAL:HG23	2.21	0.41
10:S:515:ARG:HG2	10:S:600:LEU:HA	2.02	0.41
10:S:1076:PRO:HA	10:S:1079:ARG:NE	2.36	0.41
10:S:1203:ASP:O	10:S:1206:GLN:N	2.54	0.41
10:S:1215:GLU:HA	10:S:1225:CYS:HB2	2.03	0.41
10:S:1417:ARG:O	10:S:1421:TYR:CD2	2.74	0.41
10:S:1795:ARG:HB3	10:S:1801:SER:H	1.86	0.41
10:S:1867:THR:HB	10:S:1871:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:88:TRP:CZ3	11:T:108:LEU:HD11	2.56	0.41
11:T:278:ASP:OD1	11:T:278:ASP:N	2.54	0.41
11:T:543:LEU:HD22	11:T:566:TRP:CH2	2.55	0.41
11:T:693:ASN:ND2	11:T:784:SER:O	2.53	0.41
11:T:928:PHE:HB3	11:T:933:GLN:OE1	2.20	0.41
12:U:168:SER:HB3	12:U:539:LYS:HD3	2.02	0.41
12:U:203:PRO:HG2	12:U:208:LEU:HD21	2.02	0.41
12:U:527:LEU:HD21	12:U:532:LEU:HB2	2.03	0.41
12:U:580:GLU:O	12:U:584:LEU:HD12	2.21	0.41
1:A:8:PRO:HA	3:C:316:ILE:CA	2.51	0.41
2:B:7:ALA:N	2:B:62:TYR:OH	2.40	0.41
2:B:284:TRP:CB	2:B:337:ILE:HB	2.51	0.41
3:C:51:ALA:HB1	3:C:103:TRP:HE1	1.86	0.41
3:C:170:TRP:CE3	3:C:182:ILE:HD11	2.55	0.41
3:C:200:TYR:HA	3:C:210:ALA:O	2.21	0.41
4:D:163:ARG:NH1	4:D:249:GLU:OE2	2.44	0.41
4:D:254:ILE:O	4:D:262:VAL:HG21	2.21	0.41
4:D:641:VAL:O	4:D:645:ILE:HG13	2.20	0.41
5:E:23:GLU:HG2	5:E:303:SER:CB	2.51	0.41
5:E:255:ARG:HE	5:E:255:ARG:HB3	1.59	0.41
6:F:293:SER:HA	7:G:11:SER:CB	2.51	0.41
6:F:530:ASP:O	6:F:534:THR:HG23	2.20	0.41
6:F:892:ALA:N	6:F:893:PRO:HD2	2.36	0.41
7:G:21:MET:CG	7:G:25:GLY:HA2	2.51	0.41
7:G:181:ARG:HD2	7:G:181:ARG:C	2.41	0.41
7:G:282:ASP:O	7:G:284:LYS:HG2	2.21	0.41
8:H:285:LYS:HD2	8:H:285:LYS:HA	1.94	0.41
8:H:296:LEU:HA	8:H:299:ARG:HD2	2.02	0.41
8:H:538:LEU:HD13	8:H:567:TYR:N	2.36	0.41
8:H:781:HIS:CD2	2:K:57:SER:HB3	2.56	0.41
9:I:193:THR:HG23	9:I:233:GLN:OE1	2.20	0.41
1:J:297:ASP:O	1:J:300:THR:OG1	2.36	0.41
1:J:323:HIS:HE1	1:J:324:PHE:CZ	2.38	0.41
1:J:544:ARG:O	1:J:548:GLN:OE1	2.39	0.41
1:J:607:ALA:O	1:J:611:GLU:HG2	2.21	0.41
3:L:82:THR:HB	3:L:108:THR:CG2	2.51	0.41
3:L:118:ASP:OD2	3:L:167:CYS:HA	2.21	0.41
4:M:963:ASN:O	4:M:967:ARG:HG2	2.21	0.41
4:M:1072:VAL:C	4:M:1151:GLU:HA	2.41	0.41
4:M:1180:ARG:HH21	4:M:1183:GLU:CD	2.19	0.41
6:O:684:PRO:HG3	7:P:170:GLN:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:688:GLU:OE2	7:P:172:SER:HB3	2.20	0.41
7:P:53:LEU:O	7:P:56:HIS:HE1	2.04	0.41
7:P:85:ILE:HG22	7:P:96:THR:CG2	2.50	0.41
7:P:86:TRP:HB3	7:P:93:TRP:CE3	2.55	0.41
7:P:138:GLY:HA3	7:P:139:PRO:HD2	1.94	0.41
7:P:227:THR:OG1	7:P:245:ASP:OD1	2.36	0.41
8:Q:215:ALA:HB1	8:Q:219:ARG:NH2	2.35	0.41
8:Q:253:THR:O	8:Q:256:ARG:HB3	2.21	0.41
8:Q:341:LEU:HA	8:Q:344:LEU:HB2	2.03	0.41
8:Q:403:TRP:CD1	8:Q:404:ARG:NH1	2.89	0.41
9:R:181:ASN:HB3	9:R:184:HIS:HD2	1.86	0.41
9:R:774:TYR:CZ	9:R:782:ARG:HB3	2.56	0.41
9:R:814:GLU:O	9:R:818:ILE:HG12	2.21	0.41
9:R:859:ILE:HG13	9:R:860:CYS:N	2.36	0.41
9:R:886:PHE:HB3	9:R:912:PHE:CD2	2.56	0.41
10:S:1:MET:SD	10:S:66:ARG:NE	2.81	0.41
10:S:587:THR:HB	10:S:590:GLU:HG3	2.02	0.41
10:S:757:GLU:HA	10:S:760:GLU:OE1	2.21	0.41
10:S:1037:LEU:HD13	10:S:1061:TYR:CE1	2.56	0.41
10:S:1526:ASP:OD1	10:S:1580:ARG:NH2	2.41	0.41
10:S:1783:PRO:HB2	10:S:1962:LEU:HD22	2.03	0.41
11:T:146:HIS:HB2	11:T:249:MET:O	2.21	0.41
11:T:962:ILE:O	11:T:966:GLN:HG2	2.21	0.41
12:U:117:SER:HA	12:U:120:ARG:HH21	1.86	0.41
12:U:585:LEU:CD2	12:U:599:ILE:HD11	2.51	0.41
12:U:610:ILE:HG23	12:U:629:LEU:CG	2.47	0.41
1:A:55:TYR:OH	3:C:5:ARG:N	2.52	0.40
1:A:473:MET:CE	3:C:69:GLU:HA	2.51	0.40
2:B:127:MET:SD	10:S:674:ARG:HB2	2.60	0.40
4:D:599:ASP:O	4:D:603:ALA:N	2.42	0.40
4:D:831:HIS:CD2	4:D:868:LEU:HD11	2.56	0.40
4:D:1303:THR:O	4:D:1307:HIS:CD2	2.74	0.40
5:E:46:ILE:HG13	5:E:66:LEU:HB2	2.03	0.40
6:F:424:ARG:O	6:F:428:GLU:OE1	2.38	0.40
7:G:270:SER:OG	7:G:273:ALA:N	2.54	0.40
8:H:237:PRO:HG2	8:H:461:ILE:HG12	2.02	0.40
8:H:253:THR:O	8:H:256:ARG:HB3	2.21	0.40
8:H:276:PHE:HZ	8:H:340:TYR:CD1	2.39	0.40
8:H:660:ARG:NH1	8:H:663:ILE:HB	2.36	0.40
9:I:105:GLU:N	9:I:401:ASN:OD1	2.51	0.40
9:I:179:TRP:CD1	9:I:188:TYR:HB3	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:629:HIS:HD2	9:I:632:LYS:NZ	2.19	0.40
9:I:666:PRO:HD2	9:I:669:LEU:HD12	2.02	0.40
9:I:755:GLY:HA3	4:M:795:GLN:HE22	1.85	0.40
1:J:296:ARG:HA	1:J:299:MET:HG2	2.02	0.40
1:J:296:ARG:HA	1:J:299:MET:CG	2.51	0.40
1:J:639:ARG:HA	4:M:1088:ILE:HG21	2.03	0.40
2:K:88:ARG:NH1	2:K:155:ALA:HB1	2.31	0.40
2:K:208:PHE:CD1	2:K:248:LYS:HA	2.56	0.40
3:L:113:ARG:NH2	4:M:1367:TYR:HE2	2.17	0.40
4:M:286:VAL:HG21	4:M:338:ALA:O	2.21	0.40
4:M:466:ALA:HB1	4:M:469:ARG:HH11	1.86	0.40
4:M:1087:HIS:HA	4:M:1092:ASN:OD1	2.21	0.40
4:M:1095:LYS:HD3	4:M:1095:LYS:N	2.35	0.40
4:M:1114:LEU:HD23	4:M:1115:ARG:HH22	1.86	0.40
4:M:1152:ARG:HB2	4:M:1159:ARG:NH1	2.36	0.40
4:M:1188:LEU:HB3	4:M:1192:ARG:NH1	2.36	0.40
4:M:1379:GLN:OE1	4:M:1379:GLN:N	2.54	0.40
6:O:683:ASP:HB3	6:O:685:HIS:HE1	1.83	0.40
6:O:683:ASP:C	6:O:687:ARG:HE	2.25	0.40
6:O:842:ILE:HD12	6:O:842:ILE:HG23	1.89	0.40
7:P:139:PRO:HG2	7:P:141:GLU:OE2	2.21	0.40
8:Q:128:LEU:O	8:Q:132:MET:CB	2.69	0.40
8:Q:203:LEU:HD23	8:Q:206:GLN:OE1	2.21	0.40
8:Q:248:LEU:HD22	8:Q:455:GLU:HG2	2.03	0.40
8:Q:541:MET:HA	8:Q:544:LEU:HD13	2.03	0.40
8:Q:629:THR:HA	8:Q:632:GLU:OE1	2.20	0.40
8:Q:686:ILE:HG22	8:Q:690:PHE:CE1	2.56	0.40
8:Q:819:TRP:CZ3	8:Q:840:LEU:HB3	2.56	0.40
8:Q:850:PHE:CE1	8:Q:891:LEU:HD13	2.57	0.40
9:R:218:ASN:OD1	9:R:265:LEU:HB2	2.21	0.40
9:R:641:ASN:O	9:R:645:LYS:HG3	2.22	0.40
9:R:770:ILE:HG21	9:R:789:LEU:HD22	2.01	0.40
10:S:530:LEU:HD12	10:S:530:LEU:HA	1.89	0.40
10:S:814:GLU:O	10:S:817:LEU:HB2	2.21	0.40
10:S:1204:ARG:NH1	10:S:1208:GLU:OE2	2.54	0.40
10:S:1555:LYS:O	10:S:1559:LEU:HD23	2.21	0.40
10:S:1594:ASP:HB2	10:S:1599:PHE:CD2	2.57	0.40
10:S:1636:GLN:NE2	10:S:1639:GLN:OE1	2.54	0.40
10:S:1716:ALA:C	10:S:1720:ARG:HE	2.23	0.40
11:T:824:SER:O	11:T:828:ILE:HG12	2.21	0.40
12:U:686:ILE:HD12	12:U:686:ILE:H	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:80:VAL:HA	1:A:83:GLN:OE1	2.21	0.40
2:B:144:VAL:HB	2:B:172:MET:CE	2.51	0.40
2:B:245:ARG:NH1	2:B:246:HIS:HB3	2.36	0.40
4:D:1357:VAL:O	4:D:1360:LEU:HB2	2.22	0.40
6:F:263:HIS:C	6:F:304:VAL:HG13	2.41	0.40
6:F:358:TRP:CE2	6:F:362:PHE:HB2	2.57	0.40
6:F:543:LEU:HB3	6:F:544:PRO:HD2	2.03	0.40
6:F:834:SER:HB2	6:F:838:TRP:HZ3	1.87	0.40
8:H:182:LYS:O	8:H:186:ARG:NH1	2.54	0.40
8:H:403:TRP:CD1	8:H:404:ARG:NH1	2.89	0.40
8:H:425:ASN:O	8:H:429:LEU:HG	2.21	0.40
8:H:697:GLU:HG2	8:H:698:ALA:N	2.36	0.40
8:H:765:PRO:HB2	8:H:767:LEU:CD1	2.51	0.40
9:I:1078:GLU:O	9:I:1081:LYS:HG2	2.21	0.40
9:I:1115:LEU:HD21	9:I:1128:LEU:CD2	2.50	0.40
1:J:71:LEU:HD21	1:J:112:CYS:CB	2.51	0.40
1:J:546:TYR:O	1:J:549:GLU:N	2.48	0.40
2:K:133:ALA:HB3	2:K:144:VAL:HG22	2.03	0.40
4:M:98:THR:HB	4:M:101:ARG:HB2	2.03	0.40
4:M:156:LEU:HG	4:M:161:VAL:HG12	2.02	0.40
4:M:975:PRO:HB3	4:M:1006:HIS:NE2	2.36	0.40
4:M:1357:VAL:O	4:M:1360:LEU:HB2	2.21	0.40
6:O:342:HIS:CE1	6:O:681:ILE:O	2.74	0.40
6:O:356:ALA:HB2	6:O:380:TRP:HB3	2.03	0.40
6:O:543:LEU:HB3	6:O:544:PRO:HD2	2.04	0.40
6:O:615:LEU:HG	6:O:649:LEU:HD22	2.03	0.40
6:O:795:TRP:CD1	6:O:800:LYS:NZ	2.86	0.40
7:P:33:SER:CA	7:P:35:ARG:HH21	2.33	0.40
7:P:39:ILE:H	7:P:49:LEU:CD1	2.34	0.40
7:P:43:LYS:HD3	7:P:43:LYS:HA	1.84	0.40
8:Q:359:ARG:CZ	12:U:31:ARG:NH1	2.85	0.40
8:Q:447:MET:HE1	8:Q:483:VAL:HG22	2.03	0.40
8:Q:841:ARG:CA	8:Q:845:LEU:CD2	2.98	0.40
9:R:330:ILE:HG23	9:R:348:ALA:HB2	2.03	0.40
9:R:719:LYS:HE2	9:R:788:GLN:HG2	2.02	0.40
10:S:619:ALA:HA	10:S:622:MET:HE2	2.02	0.40
10:S:643:LEU:O	10:S:646:THR:OG1	2.30	0.40
10:S:1232:ARG:HH11	10:S:1233:VAL:HG23	1.83	0.40
10:S:1811:LEU:HD21	10:S:1906:HIS:CD2	2.56	0.40
11:T:312:LEU:HD12	11:T:318:MET:SD	2.62	0.40
11:T:500:PHE:O	11:T:503:LYS:HG2	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:T:552:GLU:HA	11:T:625:TYR:HE1	1.86	0.40
11:T:630:THR:OG1	11:T:659:ARG:NH1	2.53	0.40
12:U:391:VAL:O	12:U:395:ILE:HG13	2.20	0.40
12:U:640:LEU:HA	12:U:643:THR:HG22	2.02	0.40
1:A:258:HIS:O	1:A:261:GLU:HG3	2.20	0.40
3:C:169:SER:HB2	3:C:227:PHE:HD2	1.86	0.40
3:C:197:VAL:O	3:C:214:THR:HA	2.21	0.40
4:D:1328:TYR:CA	4:D:1331:MET:HE2	2.43	0.40
4:D:1349:ALA:HA	4:D:1352:LEU:HD12	2.04	0.40
6:F:709:ALA:HA	6:F:712:ASN:ND2	2.37	0.40
6:F:710:LYS:O	6:F:714:LEU:HG	2.22	0.40
6:F:746:LEU:HB3	6:F:755:CYS:SG	2.61	0.40
6:F:838:TRP:HD1	6:F:841:LEU:HD12	1.86	0.40
6:F:848:LYS:HA	6:F:848:LYS:HD2	1.89	0.40
7:G:195:ARG:HH22	7:G:202:LYS:HE2	1.85	0.40
8:H:198:ALA:O	8:H:202:TRP:CE3	2.74	0.40
8:H:542:THR:HA	8:H:545:LEU:HD12	2.03	0.40
8:H:785:LYS:HE3	2:K:56:THR:HA	2.03	0.40
8:H:794:LYS:HD3	8:H:797:LEU:HD23	2.03	0.40
8:H:814:PHE:CE2	8:H:815:VAL:HG22	2.55	0.40
9:I:358:ILE:HD11	9:I:388:GLN:H	1.85	0.40
9:I:719:LYS:C	9:I:719:LYS:HD3	2.41	0.40
9:I:1103:LEU:HD23	9:I:1132:TYR:HD1	1.86	0.40
1:J:93:SER:CA	2:K:318:ASN:H	2.32	0.40
1:J:100:GLN:HB3	2:K:320:SER:OG	2.22	0.40
1:J:142:LEU:HG	1:J:167:TRP:NE1	2.37	0.40
1:J:415:TRP:HE1	1:J:447:LYS:NZ	2.19	0.40
2:K:16:ARG:HD2	2:K:81:MET:HB3	2.03	0.40
2:K:80:ASP:OD2	2:K:133:ALA:HA	2.21	0.40
3:L:36:VAL:O	3:L:52:SER:HA	2.20	0.40
3:L:139:VAL:O	3:L:158:GLU:HA	2.21	0.40
4:M:334:ILE:O	4:M:342:HIS:HE1	2.05	0.40
4:M:365:ARG:C	4:M:394:GLN:HB3	2.41	0.40
4:M:899:LEU:HD11	4:M:906:VAL:HG13	2.02	0.40
5:N:61:ILE:HD11	5:N:321:PHE:HE2	1.86	0.40
5:N:273:PRO:HG3	5:N:299:GLY:H	1.86	0.40
6:O:410:ARG:CZ	6:O:549:VAL:HG22	2.49	0.40
6:O:596:LEU:HA	6:O:596:LEU:HD23	1.81	0.40
7:P:278:VAL:HB	7:P:286:THR:OG1	2.22	0.40
8:Q:534:LEU:CD1	8:Q:570:ARG:HH12	2.33	0.40
8:Q:604:THR:HA	8:Q:609:ARG:HD2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:Q:636:LYS:HD2	8:Q:636:LYS:HA	1.88	0.40
9:R:182:ILE:HG13	9:R:183:LEU:N	2.37	0.40
9:R:267:SER:HB3	9:R:279:LEU:HB3	2.02	0.40
9:R:895:ARG:O	9:R:899:LEU:HG	2.21	0.40
10:S:293:GLU:HA	10:S:296:LYS:NZ	2.36	0.40
10:S:639:LEU:O	10:S:643:LEU:HG	2.21	0.40
10:S:741:PHE:CE2	10:S:812:MET:HG3	2.57	0.40
10:S:743:ARG:HA	10:S:743:ARG:NE	2.36	0.40
10:S:1107:MET:SD	10:S:1277:LYS:HD2	2.61	0.40
10:S:1274:LEU:CB	10:S:1278:ARG:HH21	2.35	0.40
10:S:1330:MET:O	10:S:1334:ALA:HB2	2.20	0.40
11:T:515:GLY:HA2	11:T:518:ARG:HE	1.86	0.40
11:T:578:LEU:O	11:T:581:VAL:HG12	2.22	0.40
11:T:590:THR:HA	11:T:593:LYS:HG2	2.03	0.40
11:T:670:TRP:CH2	11:T:793:ILE:HG12	2.56	0.40
12:U:609:ILE:H	12:U:609:ILE:HD12	1.86	0.40
1:A:394:ALA:HB1	1:A:399:PHE:HE2	1.86	0.40
1:A:544:ARG:HA	1:A:547:SER:OG	2.21	0.40
1:A:642:ALA:HB1	4:D:1088:ILE:CG2	2.52	0.40
2:B:299:LEU:HB3	2:B:307:ILE:HG22	2.03	0.40
3:C:66:ALA:HB2	3:C:121:PHE:CZ	2.56	0.40
3:C:222:VAL:HA	3:C:242:THR:HG22	2.03	0.40
4:D:1043:ARG:O	4:D:1044:SER:OG	2.37	0.40
4:D:1087:HIS:HD2	4:D:1092:ASN:OD1	2.04	0.40
5:E:110:ASP:OD2	5:E:114:LYS:HE2	2.21	0.40
5:E:205:GLU:HB2	5:E:241:SER:O	2.21	0.40
6:F:253:VAL:HG11	7:G:285:VAL:HG11	2.03	0.40
6:F:424:ARG:HA	6:F:427:GLU:HG2	2.02	0.40
6:F:572:TYR:CD2	6:F:592:LYS:HD3	2.56	0.40
6:F:710:LYS:HA	6:F:713:PHE:CD2	2.55	0.40
6:F:828:LEU:HA	6:F:831:LYS:NZ	2.36	0.40
7:G:87:LYS:HD2	7:G:89:GLU:OE2	2.22	0.40
8:H:264:TRP:O	8:H:268:ILE:HG13	2.22	0.40
9:I:665:VAL:HG23	9:I:674:VAL:HG21	2.03	0.40
9:I:814:GLU:HG2	9:I:815:ARG:H	1.86	0.40
9:I:1086:VAL:CG1	9:I:1090:GLN:HE22	2.35	0.40
1:J:596:TYR:O	1:J:600:ARG:HG2	2.22	0.40
1:J:624:SER:O	1:J:628:THR:HG23	2.22	0.40
3:L:303:ARG:HB2	3:L:305:TRP:NE1	2.37	0.40
4:M:46:TYR:CE2	4:M:410:TRP:HH2	2.40	0.40
4:M:452:ASP:HA	4:M:524:ARG:CZ	2.52	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:O:312:GLU:HB3	6:O:314:LYS:NZ	2.36	0.40
6:O:842:ILE:CG2	6:O:843:GLN:H	2.28	0.40
7:P:282:ASP:N	7:P:282:ASP:OD1	2.53	0.40
8:Q:151:LEU:HA	8:Q:154:PHE:CD2	2.57	0.40
8:Q:355:ARG:NH2	8:Q:358:LYS:NZ	2.66	0.40
8:Q:534:LEU:HA	8:Q:570:ARG:NH2	2.36	0.40
9:R:399:VAL:HG12	9:R:401:ASN:O	2.21	0.40
9:R:491:VAL:HG22	9:R:522:LEU:HB3	2.04	0.40
9:R:728:TYR:CE2	9:R:732:LYS:HG3	2.56	0.40
9:R:826:LYS:HA	9:R:826:LYS:HD3	1.90	0.40
10:S:747:ARG:HB2	10:S:749:TYR:CZ	2.57	0.40
10:S:805:HIS:CE1	10:S:811:PRO:HD2	2.56	0.40
10:S:810:SER:HB2	10:S:812:MET:CE	2.51	0.40
10:S:811:PRO:HA	10:S:814:GLU:HG2	2.03	0.40
10:S:1043:VAL:HG23	10:S:1094:HIS:CD2	2.56	0.40
10:S:1201:PHE:HB2	10:S:1202:PHE:CZ	2.57	0.40
10:S:1220:ARG:HB2	10:S:1222:GLN:HE22	1.86	0.40
10:S:1285:ARG:O	10:S:1289:GLU:OE1	2.38	0.40
10:S:1659:LEU:HA	10:S:1672:LEU:HD11	2.03	0.40
11:T:355:ILE:HG21	11:T:453:LEU:HD23	2.03	0.40
12:U:180:ASN:OD1	12:U:181:VAL:N	2.54	0.40
12:U:207:ASP:HA	12:U:229:LYS:HZ3	1.85	0.40
1:A:61:GLU:OE2	3:C:1:MET:HG2	2.22	0.40
1:A:189:THR:HG21	1:A:220:THR:OG1	2.21	0.40
1:A:370:TRP:NE1	1:A:374:HIS:CE1	2.89	0.40
1:A:408:LEU:HD13	1:A:417:LEU:HB2	2.04	0.40
2:B:75:PRO:HB2	2:B:95:THR:HG21	2.03	0.40
2:B:267:HIS:CE1	2:B:269:SER:HB3	2.43	0.40
3:C:235:PHE:HB3	3:C:251:LYS:CD	2.51	0.40
4:D:346:LEU:HD22	4:D:355:LEU:HD21	2.03	0.40
4:D:1138:TYR:CD1	6:F:901:PRO:HB3	2.56	0.40
5:E:30:GLY:HA2	5:E:85:ARG:NH1	2.36	0.40
6:F:256:GLY:C	7:G:271:ILE:HG21	2.42	0.40
6:F:675:ILE:HG13	6:F:694:LEU:HD22	2.03	0.40
6:F:684:PRO:HG2	7:G:171:PRO:HA	2.03	0.40
8:H:883:PHE:HB3	8:H:888:MET:HB3	2.04	0.40
9:I:96:ASP:HA	9:I:440:ASN:HB2	2.03	0.40
9:I:223:LEU:HD12	9:I:233:GLN:HB3	2.02	0.40
9:I:310:ILE:HD11	9:I:363:VAL:HG21	2.04	0.40
1:J:630:VAL:O	1:J:633:LEU:HG	2.21	0.40
2:K:88:ARG:HH21	3:L:95:ASP:CB	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:L:129:MET:HG3	3:L:143:GLU:HB3	2.04	0.40
3:L:245:VAL:HB	3:L:274:PHE:HB2	2.04	0.40
3:L:267:GLU:HB3	3:L:269:HIS:NE2	2.37	0.40
4:M:527:ASN:HA	4:M:531:TRP:CZ3	2.57	0.40
4:M:801:GLU:HB3	4:M:968:LEU:HG	2.04	0.40
4:M:870:TRP:CD1	4:M:872:SER:HB2	2.56	0.40
4:M:891:LEU:HD21	4:M:912:MET:HG3	2.03	0.40
4:M:915:GLN:O	4:M:919:VAL:HG23	2.21	0.40
4:M:1113:THR:HA	10:S:477:LEU:O	2.21	0.40
5:N:50:ARG:HH12	5:N:307:ARG:NH2	2.19	0.40
5:N:87:ASP:OD1	5:N:87:ASP:N	2.52	0.40
6:O:249:ARG:HA	7:P:265:TRP:HZ3	1.85	0.40
6:O:324:PRO:O	6:O:327:ILE:HB	2.21	0.40
6:O:444:TYR:CG	6:O:449:ARG:NH1	2.90	0.40
6:O:701:VAL:HG12	6:O:732:ARG:CZ	2.51	0.40
6:O:741:LYS:HD3	6:O:745:TYR:CE2	2.56	0.40
7:P:151:ILE:HG22	7:P:152:GLY:N	2.35	0.40
8:Q:176:GLN:NE2	8:Q:180:LEU:HG	2.36	0.40
8:Q:290:GLU:O	8:Q:293:LEU:HB3	2.22	0.40
8:Q:293:LEU:HD23	12:U:46:LYS:NZ	2.36	0.40
8:Q:370:GLU:HA	8:Q:373:LYS:HZ3	1.85	0.40
8:Q:694:LYS:HG3	8:Q:694:LYS:O	2.22	0.40
9:R:99:MET:SD	9:R:113:CYS:HA	2.62	0.40
9:R:789:LEU:O	9:R:793:LEU:HD23	2.22	0.40
9:R:1027:ALA:HA	9:R:1031:ASP:OD2	2.21	0.40
10:S:314:LEU:HD22	10:S:356:MET:CE	2.51	0.40
10:S:448:ARG:HH11	10:S:516:GLY:CA	2.35	0.40
10:S:730:GLU:HA	10:S:733:LEU:HB3	2.03	0.40
10:S:749:TYR:HD1	10:S:754:GLU:OE1	2.05	0.40
10:S:1302:THR:HG22	10:S:1305:ARG:HD3	2.04	0.40
10:S:1545:LEU:HD21	10:S:1547:LYS:HE2	2.02	0.40
10:S:1581:LEU:HB3	10:S:1647:PHE:HE2	1.86	0.40
11:T:1008:LEU:HA	11:T:1011:GLU:OE1	2.21	0.40
12:U:253:MET:O	12:U:257:ARG:HG2	2.21	0.40
12:U:579:ARG:HA	12:U:581:PHE:CZ	2.57	0.40
12:U:796:PHE:HA	12:U:799:MET:HG3	2.02	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	651/653 (100%)	594 (91%)	56 (9%)	1 (0%)	47	81
1	J	651/653 (100%)	607 (93%)	44 (7%)	0	100	100
2	B	373/375 (100%)	314 (84%)	57 (15%)	2 (0%)	29	69
2	K	373/375 (100%)	333 (89%)	37 (10%)	3 (1%)	19	60
3	C	331/360 (92%)	280 (85%)	50 (15%)	1 (0%)	41	77
3	L	323/360 (90%)	286 (88%)	35 (11%)	2 (1%)	25	66
4	D	1392/1439 (97%)	1294 (93%)	95 (7%)	3 (0%)	47	81
4	M	1392/1439 (97%)	1293 (93%)	95 (7%)	4 (0%)	41	77
5	E	324/326 (99%)	299 (92%)	25 (8%)	0	100	100
5	N	324/326 (99%)	299 (92%)	25 (8%)	0	100	100
6	F	685/924 (74%)	612 (89%)	69 (10%)	4 (1%)	25	66
6	O	635/924 (69%)	556 (88%)	79 (12%)	0	100	100
7	G	292/320 (91%)	262 (90%)	30 (10%)	0	100	100
7	P	292/320 (91%)	253 (87%)	38 (13%)	1 (0%)	41	77
8	H	796/916 (87%)	745 (94%)	50 (6%)	1 (0%)	51	86
8	Q	778/916 (85%)	719 (92%)	55 (7%)	4 (0%)	29	69
9	I	1074/1140 (94%)	989 (92%)	77 (7%)	8 (1%)	22	63
9	R	1080/1140 (95%)	1013 (94%)	66 (6%)	1 (0%)	51	86
10	S	2009/2011 (100%)	1874 (93%)	133 (7%)	2 (0%)	51	86
11	T	1011/2408 (42%)	960 (95%)	50 (5%)	1 (0%)	51	86
12	U	818/820 (100%)	756 (92%)	53 (6%)	9 (1%)	14	52
All	All	15604/18145 (86%)	14338 (92%)	1219 (8%)	47 (0%)	44	77

All (47) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	567	ALA
2	B	61	GLU
3	C	217	SER
6	F	597	GLN
6	F	615	LEU
2	K	62	TYR
4	M	1278	THR
12	U	27	PRO
12	U	155	ALA
4	D	1374	LEU
6	F	249	ARG
9	I	471	VAL
3	L	95	ASP
8	Q	820	MET
12	U	241	ASP
4	D	1275	VAL
8	H	228	GLU
9	I	184	HIS
9	I	464	VAL
9	I	473	PRO
3	L	97	LEU
4	M	198	PRO
12	U	503	LEU
4	D	134	ASN
6	F	300	SER
4	M	1164	GLU
8	Q	880	TYR
9	R	114	ASN
12	U	381	ARG
12	U	399	ASP
9	I	328	ILE
2	K	310	SER
8	Q	647	PHE
12	U	87	PHE
9	I	494	ASP
9	I	496	ARG
9	I	1071	ASP
4	M	93	SER
7	P	295	GLN
8	Q	872	VAL
10	S	481	HIS
2	B	30	PRO
2	K	203	ASP

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Mol	Chain	Res	Type
11	T	788	LYS
12	U	545	PRO
10	S	1809	PRO
12	U	91	GLU

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	580/580 (100%)	576 (99%)	4 (1%)	84	90
1	J	580/580 (100%)	577 (100%)	3 (0%)	88	93
2	B	329/329 (100%)	326 (99%)	3 (1%)	78	87
2	K	329/329 (100%)	327 (99%)	2 (1%)	86	92
3	C	288/309 (93%)	284 (99%)	4 (1%)	67	80
3	L	282/309 (91%)	279 (99%)	3 (1%)	73	84
4	D	1230/1262 (98%)	1220 (99%)	10 (1%)	81	89
4	M	1230/1262 (98%)	1224 (100%)	6 (0%)	88	93
5	E	275/275 (100%)	274 (100%)	1 (0%)	91	94
5	N	275/275 (100%)	274 (100%)	1 (0%)	91	94
6	F	608/816 (74%)	599 (98%)	9 (2%)	65	80
6	O	563/816 (69%)	561 (100%)	2 (0%)	91	94
7	G	250/272 (92%)	248 (99%)	2 (1%)	81	89
7	P	250/272 (92%)	249 (100%)	1 (0%)	91	94
8	H	712/816 (87%)	702 (99%)	10 (1%)	67	80
8	Q	695/816 (85%)	680 (98%)	15 (2%)	52	71
9	I	944/993 (95%)	935 (99%)	9 (1%)	76	86
9	R	950/993 (96%)	948 (100%)	2 (0%)	93	96
10	S	1779/1779 (100%)	1771 (100%)	8 (0%)	91	94
11	T	895/2166 (41%)	894 (100%)	1 (0%)	93	97

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
12	U	721/721 (100%)	715 (99%)	6 (1%)	81 89
All	All	13765/15970 (86%)	13663 (99%)	102 (1%)	84 90

All (102) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	LYS
1	A	469	LYS
1	A	544	ARG
1	A	640	ASN
2	B	73	LYS
2	B	86	LYS
2	B	245	ARG
3	C	5	ARG
3	C	113	ARG
3	C	246	ARG
3	C	283	ARG
4	D	67	ARG
4	D	498	LYS
4	D	530	ASN
4	D	939	ARG
4	D	994	ARG
4	D	1135	ARG
4	D	1190	GLN
4	D	1197	LYS
4	D	1270	ASN
4	D	1338	ARG
5	E	307	ARG
6	F	303	LYS
6	F	349	VAL
6	F	352	ILE
6	F	436	ARG
6	F	598	ARG
6	F	610	GLU
6	F	717	ARG
6	F	774	ARG
6	F	862	ASN
7	G	27	ARG
7	G	195	ARG
8	H	233	GLU
8	H	270	LYS
8	H	413	LYS

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Mol	Chain	Res	Type
8	H	493	LYS
8	H	494	ARG
8	H	496	LEU
8	H	508	LYS
8	H	565	LYS
8	H	617	LYS
8	H	896	ARG
9	I	464	VAL
9	I	466	ARG
9	I	471	VAL
9	I	472	LEU
9	I	827	ARG
9	I	926	ASN
9	I	946	ARG
9	I	959	LYS
9	I	1073	LYS
1	J	110	ARG
1	J	237	LYS
1	J	446	LYS
2	K	222	ARG
2	K	245	ARG
3	L	62	ARG
3	L	126	MET
3	L	140	ARG
4	M	441	ASN
4	M	498	LYS
4	M	669	ARG
4	M	725	ARG
4	M	1297	LYS
4	M	1338	ARG
5	N	85	ARG
6	O	436	ARG
6	O	598	ARG
7	P	54	ARG
8	Q	185	LYS
8	Q	270	LYS
8	Q	413	LYS
8	Q	508	LYS
8	Q	575	LYS
8	Q	700	LYS
8	Q	756	LYS
8	Q	867	ARG

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Mol	Chain	Res	Type
8	Q	870	ASP
8	Q	872	VAL
8	Q	876	ASN
8	Q	878	LYS
8	Q	879	LEU
8	Q	880	TYR
8	Q	881	THR
9	R	959	LYS
9	R	1137	LYS
10	S	468	GLN
10	S	487	ARG
10	S	584	ARG
10	S	977	ARG
10	S	1130	ARG
10	S	1232	ARG
10	S	1349	ARG
10	S	1758	ASN
11	T	455	ARG
12	U	50	ARG
12	U	388	LYS
12	U	487	ARG
12	U	546	ARG
12	U	587	LYS
12	U	809	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (140) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	133	GLN
1	A	268	GLN
1	A	374	HIS
1	A	395	ASN
1	A	411	HIS
1	A	463	GLN
2	B	74	HIS
2	B	114	GLN
2	B	173	HIS
2	B	218	HIS
2	B	226	GLN
2	B	227	GLN
2	B	257	HIS
2	B	356	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
3	C	157	HIS
3	C	223	HIS
4	D	554	HIS
4	D	692	GLN
4	D	766	GLN
4	D	890	GLN
4	D	892	GLN
4	D	1045	GLN
4	D	1077	HIS
4	D	1143	GLN
4	D	1232	GLN
4	D	1307	HIS
4	D	1412	GLN
4	D	1420	GLN
5	E	71	HIS
6	F	305	HIS
6	F	538	HIS
6	F	551	GLN
6	F	563	GLN
6	F	648	HIS
6	F	658	HIS
7	G	20	GLN
7	G	62	GLN
7	G	67	HIS
7	G	149	HIS
7	G	235	GLN
8	H	168	GLN
8	H	176	GLN
8	H	205	GLN
8	H	230	ASN
8	H	279	ASN
8	H	425	ASN
8	H	504	HIS
8	H	595	GLN
8	H	675	GLN
8	H	763	GLN
8	H	770	GLN
9	I	74	ASN
9	I	440	ASN
9	I	655	GLN
9	I	727	GLN
1	J	83	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
1	J	104	ASN
1	J	117	HIS
1	J	389	ASN
1	J	395	ASN
1	J	457	GLN
2	K	218	HIS
2	K	235	GLN
2	K	246	HIS
3	L	56	HIS
3	L	157	HIS
3	L	312	ASN
4	M	366	GLN
4	M	393	ASN
4	M	579	HIS
4	M	687	ASN
4	M	766	GLN
4	M	817	GLN
4	M	831	HIS
4	M	849	HIS
4	M	873	ASN
4	M	932	GLN
4	M	996	GLN
4	M	1190	GLN
4	M	1253	GLN
4	M	1306	HIS
4	M	1365	HIS
6	O	258	ASN
6	O	463	HIS
6	O	471	GLN
6	O	538	HIS
6	O	551	GLN
6	O	563	GLN
6	O	603	HIS
6	O	654	GLN
6	O	658	HIS
6	O	696	ASN
6	O	751	GLN
6	O	853	GLN
7	P	62	GLN
7	P	67	HIS
7	P	114	HIS
8	Q	205	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
8	Q	279	ASN
8	Q	425	ASN
8	Q	528	ASN
8	Q	536	HIS
8	Q	675	GLN
8	Q	682	GLN
8	Q	696	HIS
8	Q	752	ASN
8	Q	836	GLN
8	Q	877	GLN
8	Q	893	GLN
9	R	104	HIS
9	R	299	ASN
9	R	382	GLN
9	R	499	GLN
9	R	586	GLN
9	R	730	GLN
9	R	767	HIS
10	S	226	GLN
10	S	497	GLN
10	S	668	GLN
10	S	719	ASN
10	S	884	ASN
10	S	892	ASN
10	S	1016	ASN
10	S	1094	HIS
10	S	1108	ASN
10	S	1317	HIS
10	S	1346	GLN
10	S	1651	HIS
11	T	273	GLN
11	T	474	ASN
11	T	494	GLN
11	T	818	HIS
11	T	840	GLN
11	T	877	HIS
11	T	897	HIS
12	U	34	GLN
12	U	37	GLN
12	U	108	ASN
12	U	258	GLN
12	U	814	GLN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

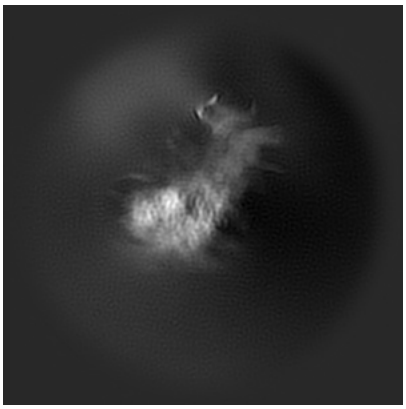
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-31891. These allow visual inspection of the internal detail of the map and identification of artifacts.

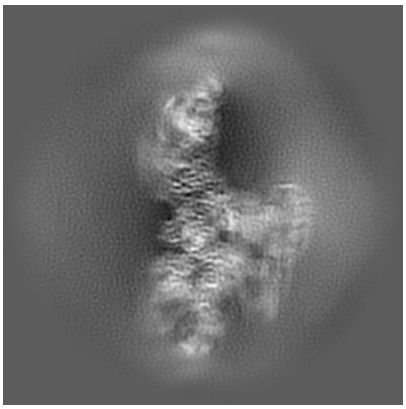
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

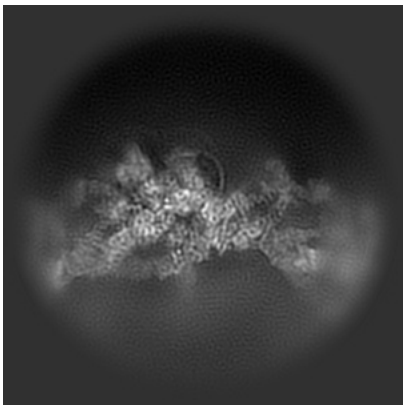
6.1.1 Primary map



X

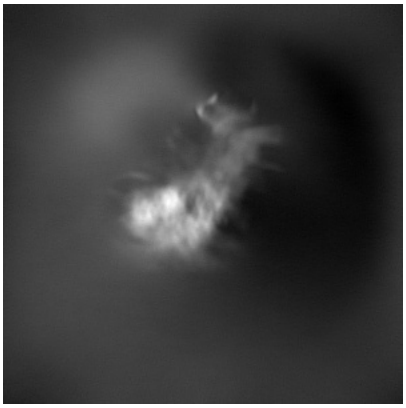


Y

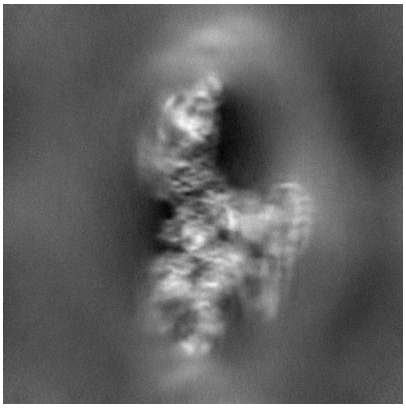


Z

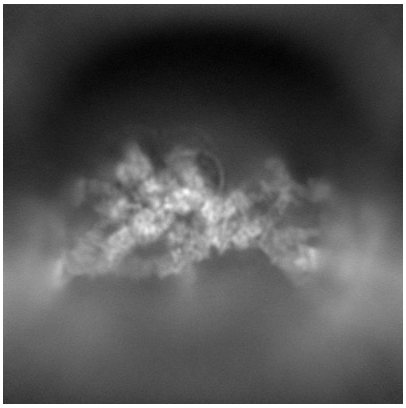
6.1.2 Raw map



X



Y

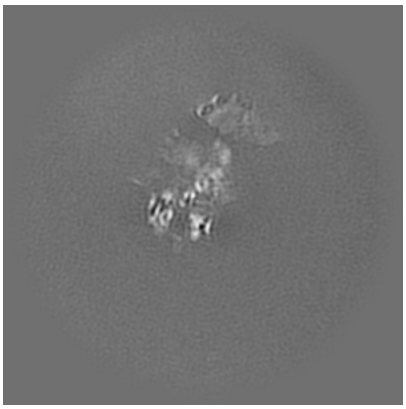


Z

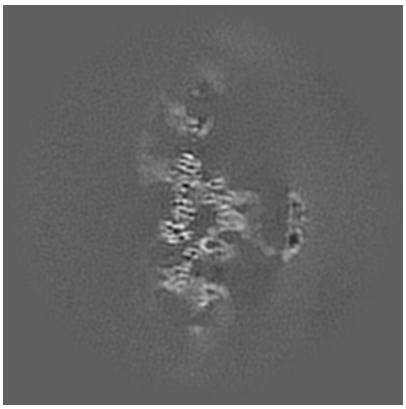
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

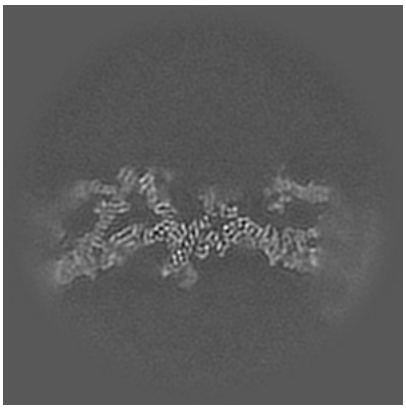
6.2.1 Primary map



X Index: 160

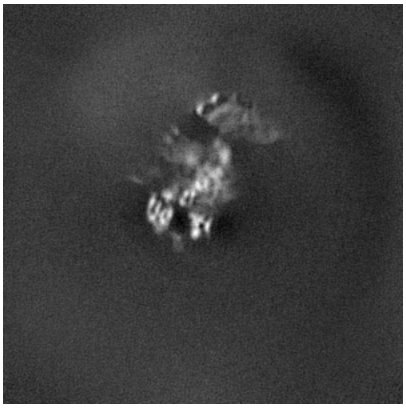


Y Index: 160

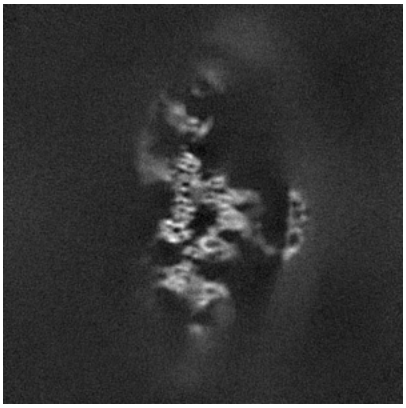


Z Index: 160

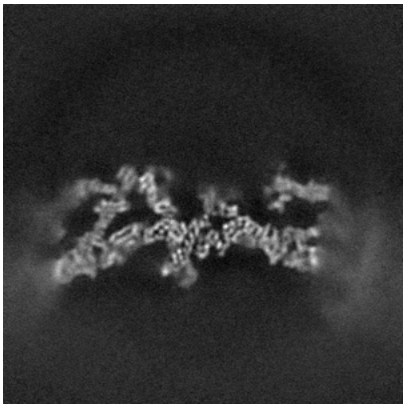
6.2.2 Raw map



X Index: 160



Y Index: 160

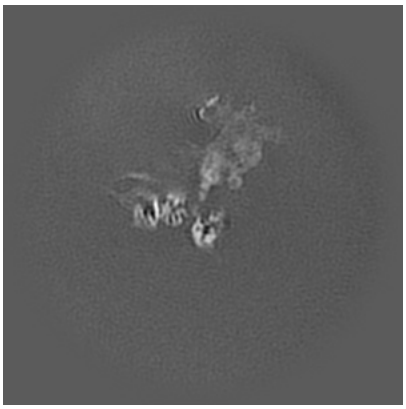


Z Index: 160

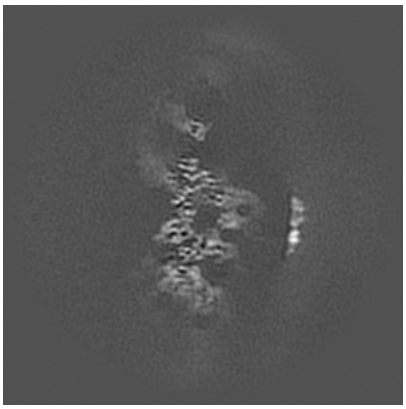
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

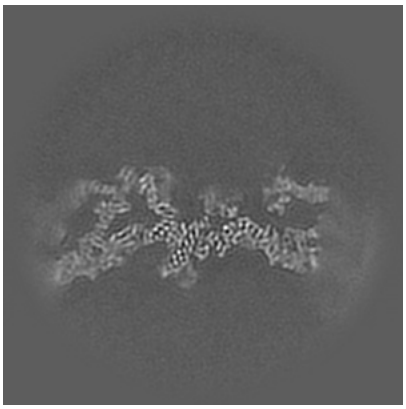
6.3.1 Primary map



X Index: 140

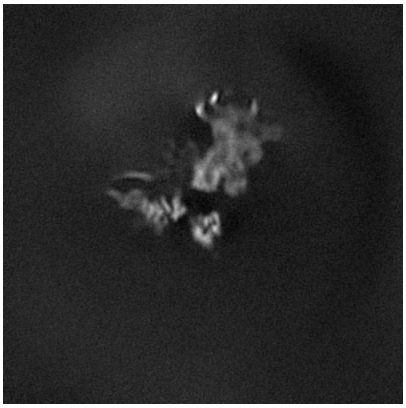


Y Index: 157

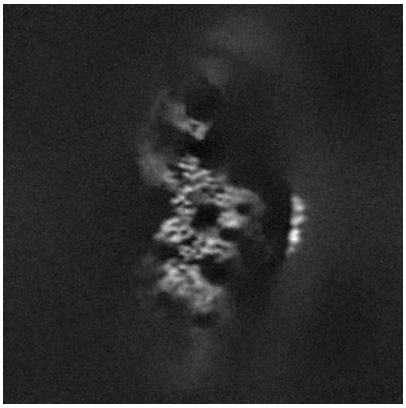


Z Index: 159

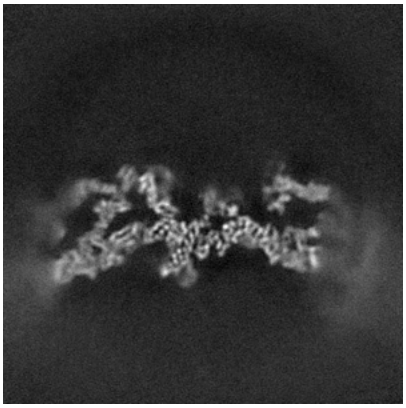
6.3.2 Raw map



X Index: 146



Y Index: 157



Z Index: 159

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

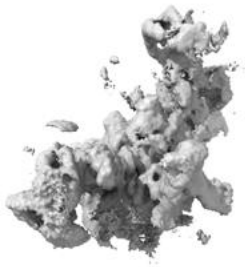
X

Y

Z

The images above show the 3D surface view of the map at the recommended contour level 0.4. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.4.2 Raw map



X

Y

Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

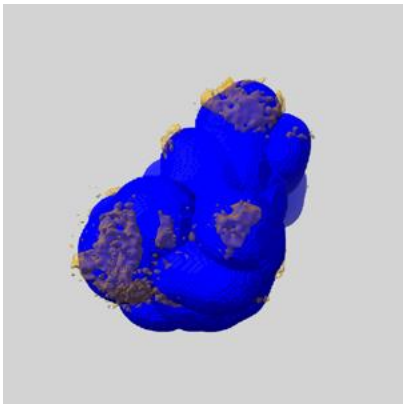
6.5 Mask visualisation (i)

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

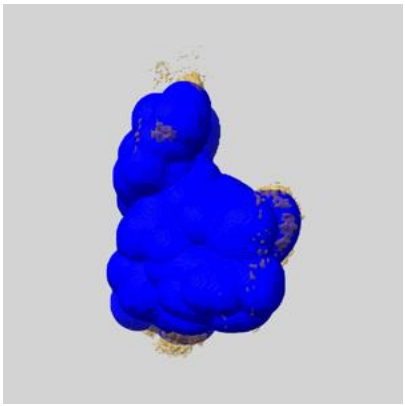
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

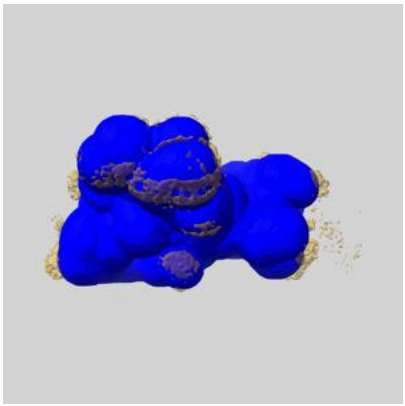
6.5.1 emd_31891_msk_1.map (i)



X



Y

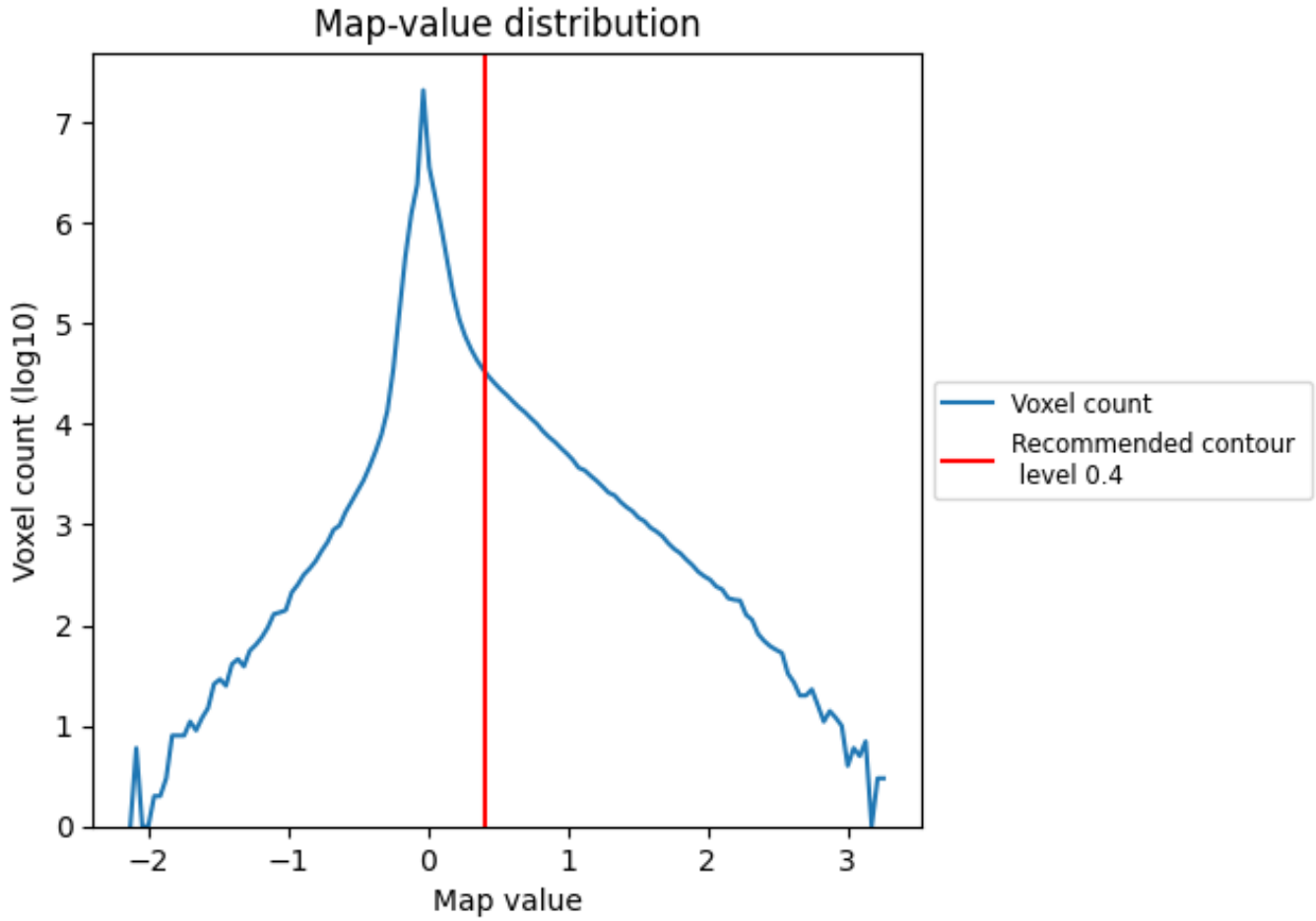


Z

7 Map analysis

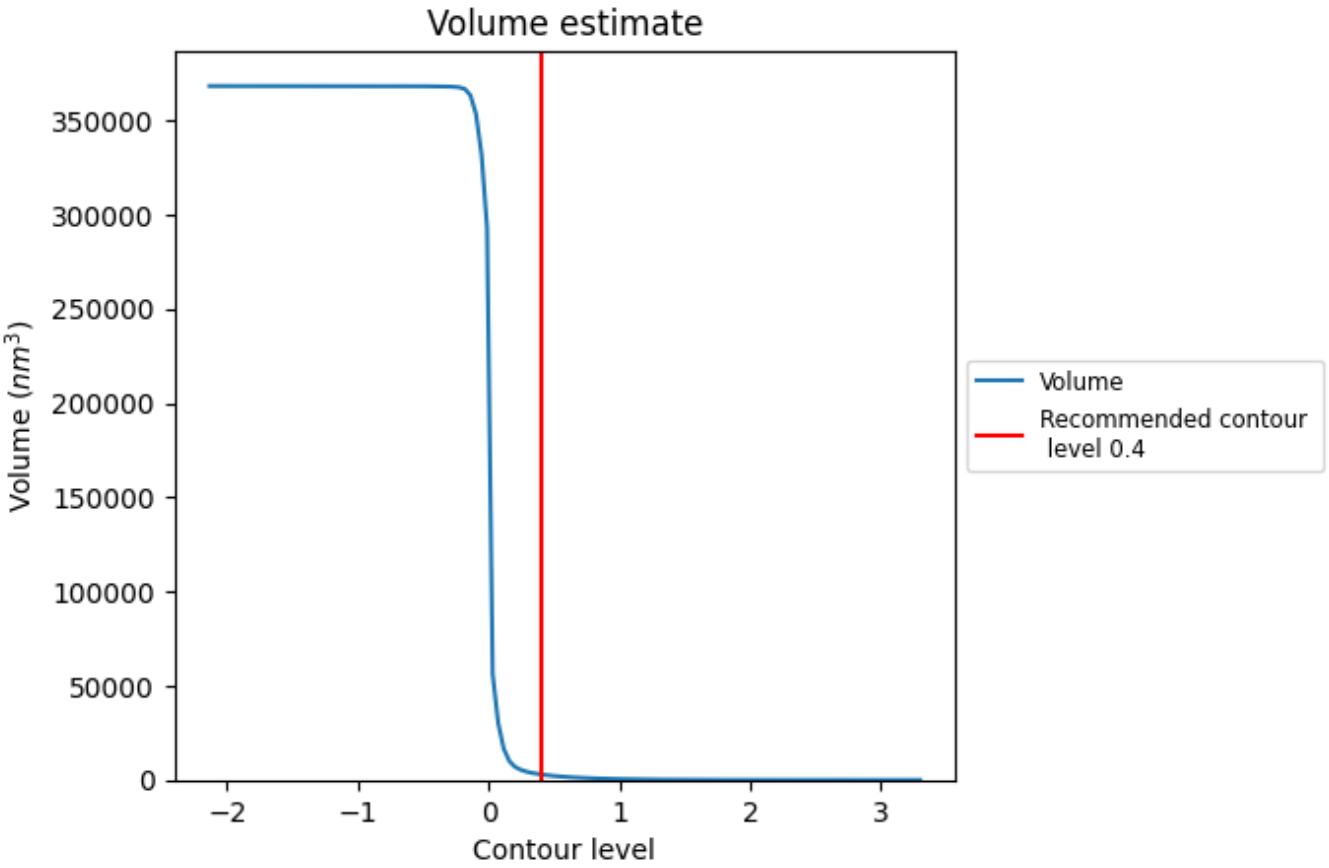
This section contains the results of statistical analysis of the map.

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.

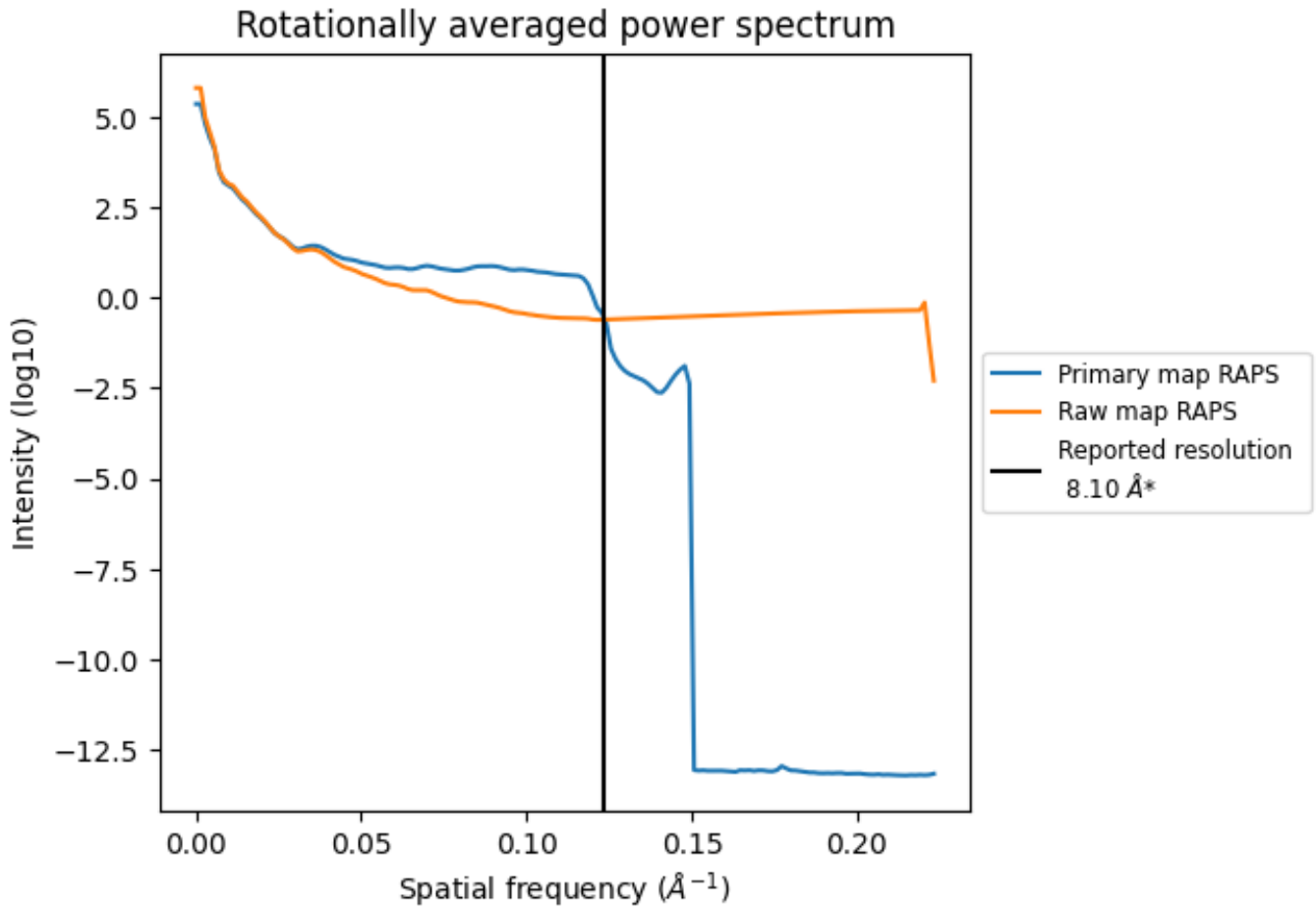
7.2 Volume estimate



The volume at the recommended contour level is 2954 nm^3; this corresponds to an approximate mass of 2669 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)

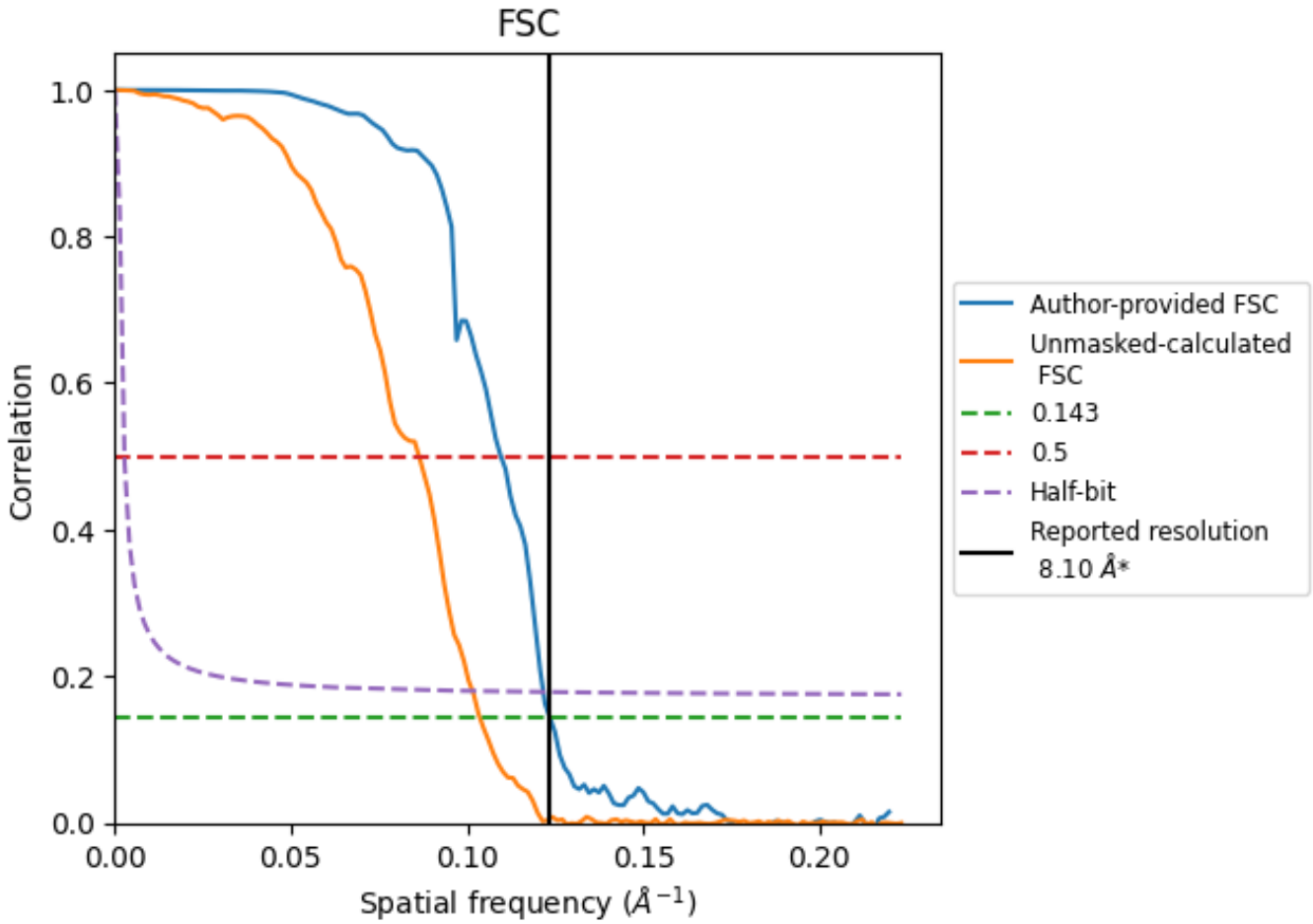


*Reported resolution corresponds to spatial frequency of 0.123 $Å^{-1}$

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.123 Å^{-1}

8.2 Resolution estimates (i)

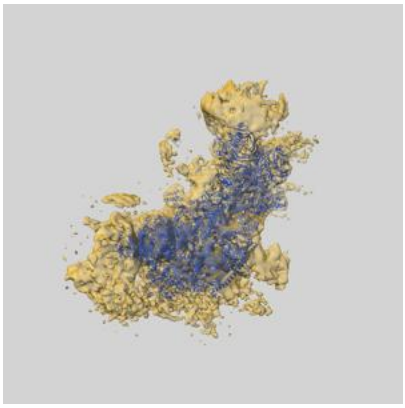
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	8.10	-	-
Author-provided FSC curve	8.10	9.12	8.22
Unmasked-calculated*	9.64	11.57	9.84

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 9.64 differs from the reported value 8.1 by more than 10 %

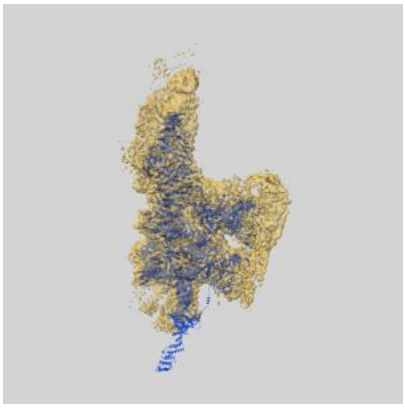
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-31891 and PDB model 7VCI. Per-residue inclusion information can be found in section 3 on page 7.

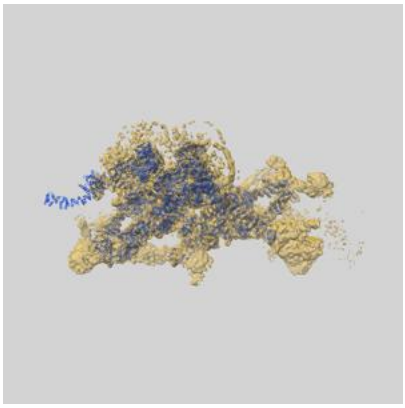
9.1 Map-model overlay



X



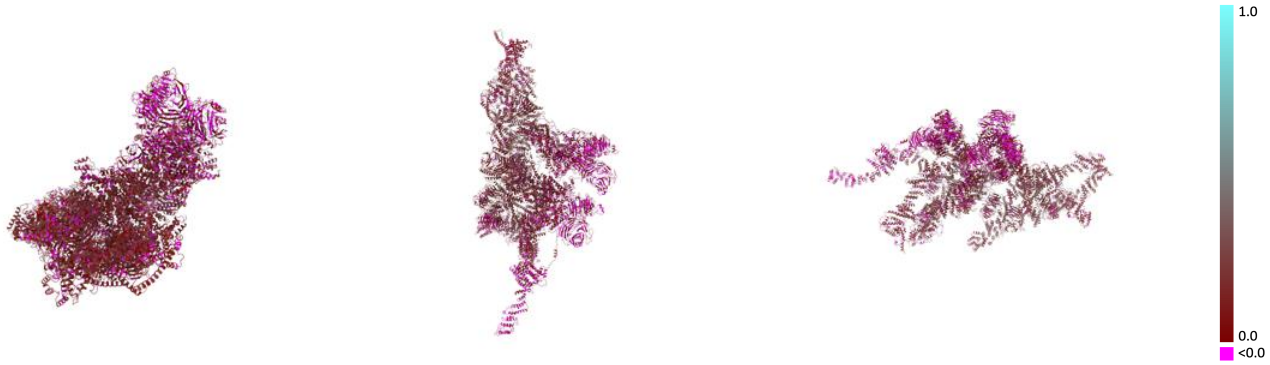
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.4 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.

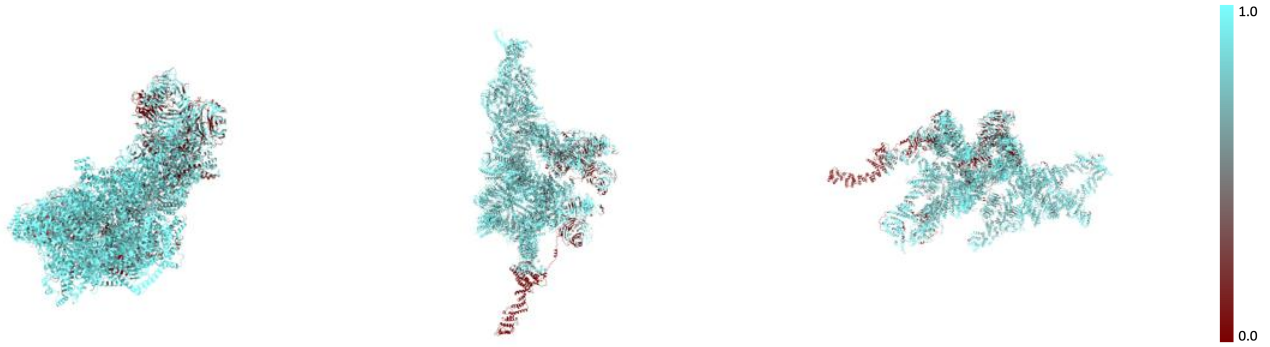
9.2 Q-score mapped to coordinate model (i)



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.

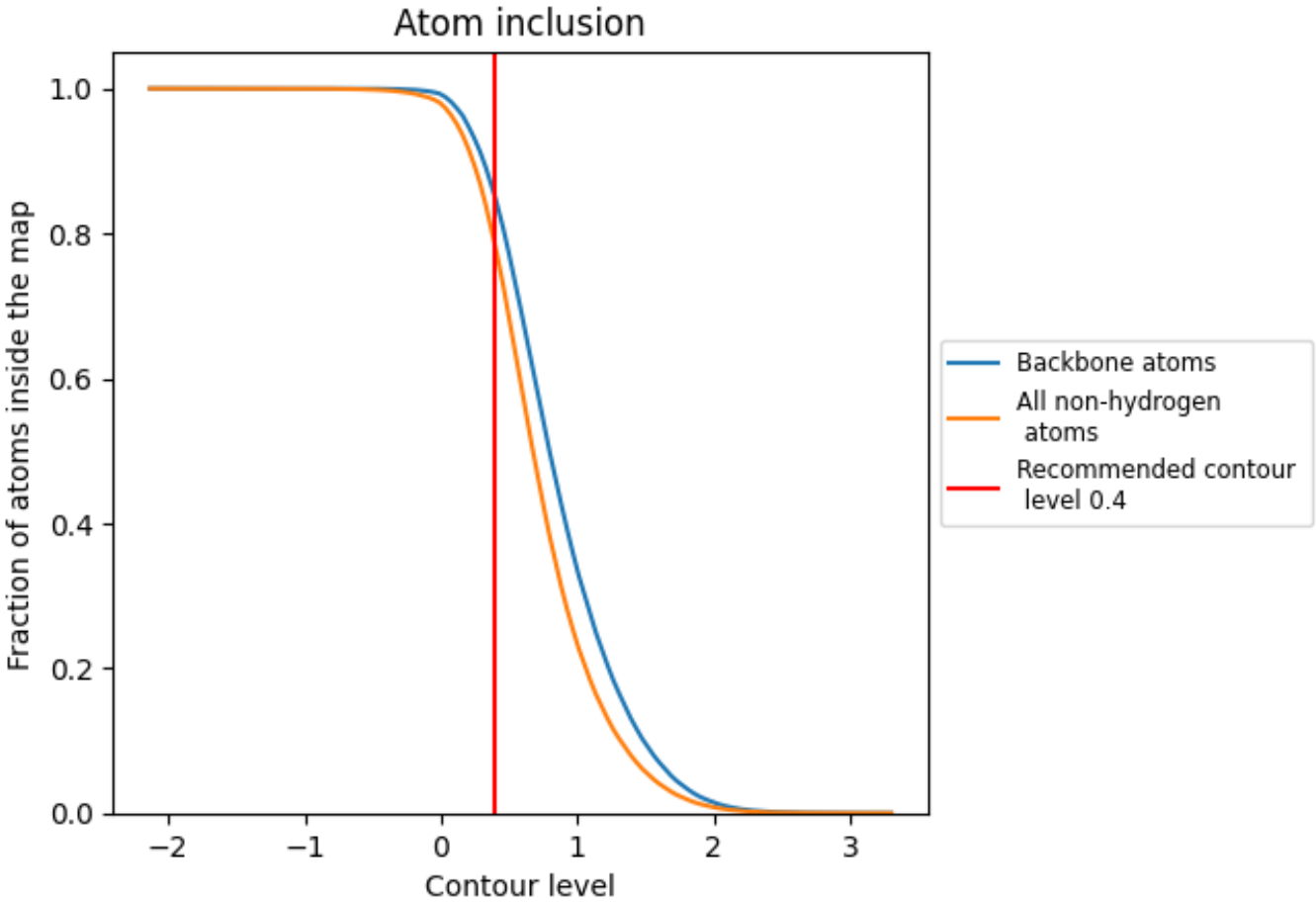
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.4).

9.4 Atom inclusion (i)



At the recommended contour level, 85% of all backbone atoms, 78% 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 (0.4) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7813	0.1300
A	0.8538	0.1760
B	0.7864	0.1290
C	0.9014	0.1700
D	0.7970	0.1160
E	0.9198	0.1150
F	0.8319	0.1610
G	0.8566	0.1570
H	0.8033	0.1390
I	0.6724	0.0990
J	0.8920	0.1590
K	0.8476	0.1030
L	0.9235	0.1560
M	0.8344	0.1070
N	0.8671	0.1180
O	0.8614	0.1840
P	0.9084	0.1580
Q	0.8176	0.1640
R	0.2588	0.0390
S	0.8484	0.1480
T	0.6471	0.0980
U	0.8869	0.1570