Full wwPDB X-ray Structure Validation Report ⓘ

Aug 27, 2023 – 02:25 PM EDT

PDB ID	:	3H0G
Title	:	RNA Polymerase II from Schizosaccharomyces pombe
Authors	:	Spahr, H.; Calero, G.; Bushnell, D.A.; Kornberg, R.D.
Deposited on	:	2009-04-09
Resolution	:	3.65 Å(reported)

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

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

The 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:

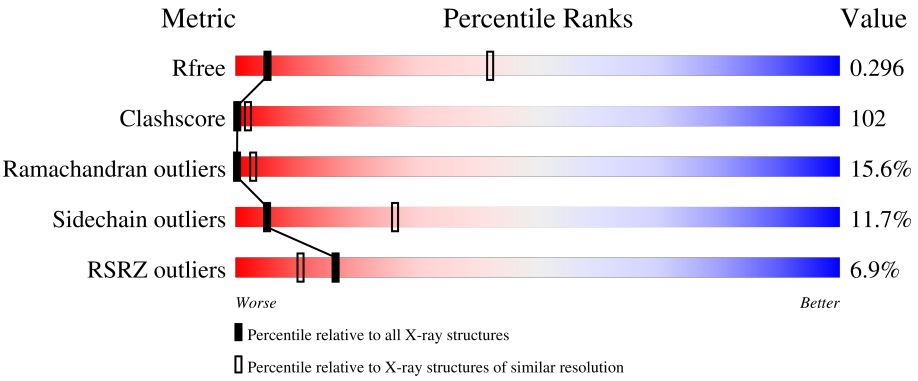
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.65 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1557 (3.82-3.50)
Clashscore	141614	1037 (3.80-3.52)
Ramachandran outliers	138981	1004 (3.80-3.52)
Sidechain outliers	138945	1002 (3.80-3.52)
RSRZ outliers	127900	1441 (3.82-3.50)

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

Mol	Chain	Length	Quality of chain
1	A	1752	5% 19% 45% 18% • 15%
1	M	1752	10% 19% 45% 17% • 16%
2	B	1210	2% 25% 54% 14% • 5%
2	N	1210	10% 25% 54% 14% • 5%
3	C	297	30% 48% 10% • 11%

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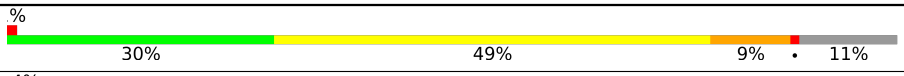
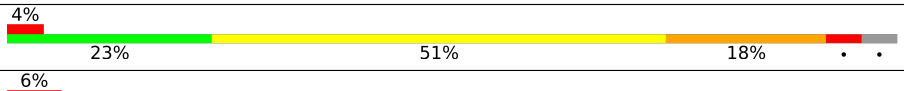
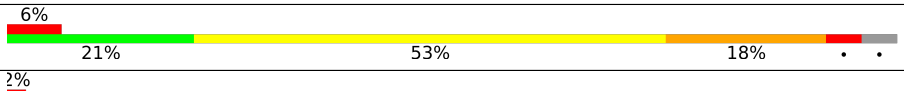
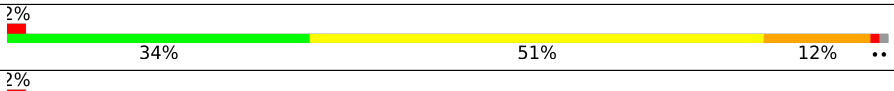
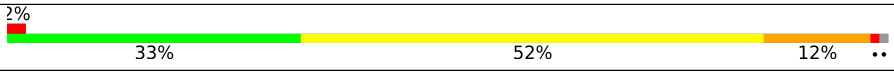
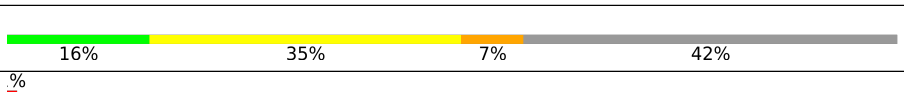
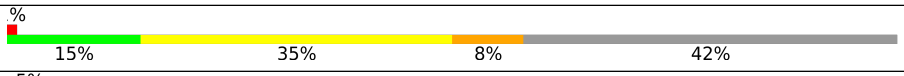
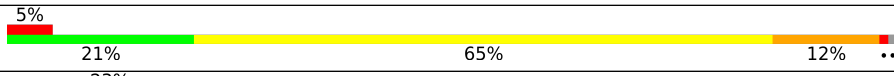
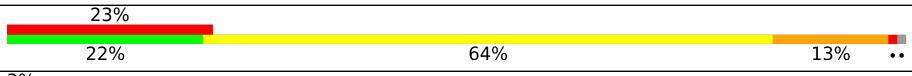
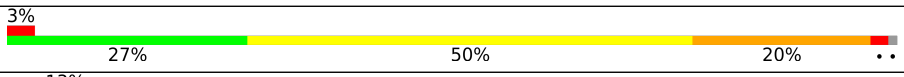
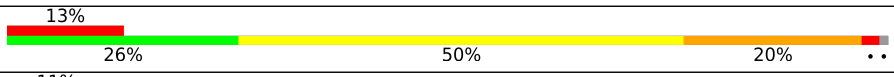
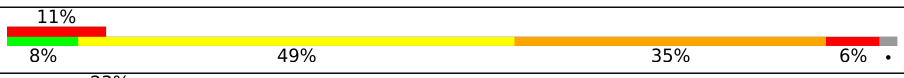
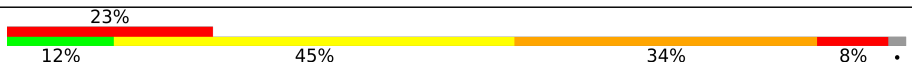
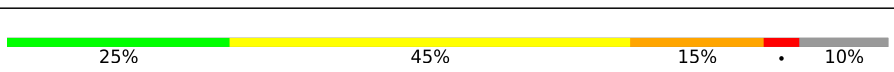
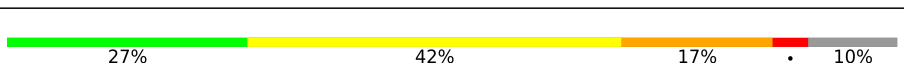
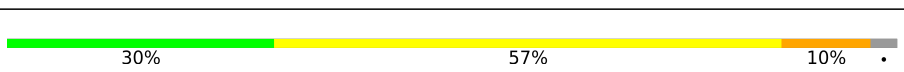
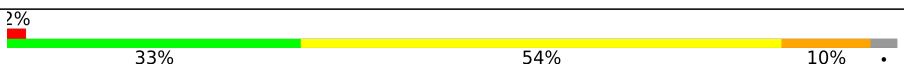
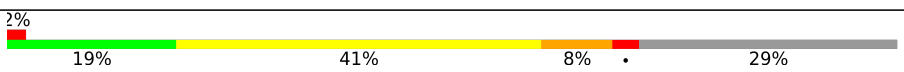
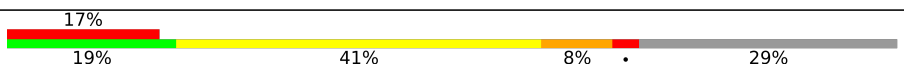
Mol	Chain	Length	Quality of chain
3	O	297	
4	D	135	
4	P	135	
5	E	210	
5	Q	210	
6	F	142	
6	R	142	
7	G	172	
7	S	172	
8	H	125	
8	T	125	
9	I	113	
9	U	113	
10	J	71	
10	V	71	
11	K	123	
11	W	123	
12	L	63	
12	X	63	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
14	MG	A	2458	-	-	-	X

2 Entry composition (i)

There are 14 unique types of molecules in this entry. The entry contains 62870 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called DNA-directed RNA polymerase II subunit rpb1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1496	Total	C	N	O	S	0	0	0
			11802	7415	2071	2246	70			
1	M	1476	Total	C	N	O	S	0	0	0
			11666	7334	2047	2216	69			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	1150	Total	C	N	O	S	0	0	0
			9180	5772	1630	1716	62			
2	N	1150	Total	C	N	O	S	0	0	0
			9180	5772	1630	1716	62			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	263	Total	C	N	O	S	0	0	0
			2088	1315	355	406	12			
3	O	263	Total	C	N	O	S	0	0	0
			2088	1315	355	406	12			

- Molecule 4 is a protein called DNA-directed RNA polymerase II subunit rpb4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	130	Total	C	N	O	S	0	0	0
			1036	649	176	205	6			
4	P	130	Total	C	N	O	S	0	0	0
			1036	649	176	205	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	207	Total	C	N	O	S	0	0	0
			1663	1050	301	306	6			
5	Q	207	Total	C	N	O	S	0	0	0
			1663	1050	301	306	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	83	Total	C	N	O	S	0	0	0
			656	416	112	125	3			
6	R	83	Total	C	N	O	S	0	0	0
			656	416	112	125	3			

- Molecule 7 is a protein called DNA-directed RNA polymerase II subunit rpb7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	170	Total	C	N	O	S	0	0	0
			1330	860	217	247	6			
7	S	170	Total	C	N	O	S	0	0	0
			1330	860	217	247	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	124	Total	C	N	O	S	0	0	0
			996	631	167	195	3			
8	T	124	Total	C	N	O	S	0	0	0
			996	631	167	195	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	111	Total	C	N	O	S	0	0	0
			902	551	164	176	11			
9	U	111	Total	C	N	O	S	0	0	0
			902	551	164	176	11			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	64	Total	C	N	O	S	0	0	0
			518	330	87	94	7			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	V	64	Total	C	N	O	S	0	0	0
			518	330	87	94	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	119	Total	C	N	O	S	0	0	0
			955	608	159	182	6			
11	W	119	Total	C	N	O	S	0	0	0
			955	608	159	182	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	45	Total	C	N	O	S	0	0	0
			368	225	74	61	8			
12	X	45	Total	C	N	O	S	0	0	0
			368	225	74	61	8			

- Molecule 13 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
13	A	2	Total	Zn	0	0
			2	2		
13	B	1	Total	Zn	0	0
			1	1		
13	C	1	Total	Zn	0	0
			1	1		
13	I	2	Total	Zn	0	0
			2	2		
13	J	1	Total	Zn	0	0
			1	1		
13	L	1	Total	Zn	0	0
			1	1		
13	M	2	Total	Zn	0	0
			2	2		
13	N	1	Total	Zn	0	0
			1	1		
13	O	1	Total	Zn	0	0
			1	1		
13	U	2	Total	Zn	0	0
			2	2		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
13	V	1	Total Zn 1 1	0	0
13	X	1	Total Zn 1 1	0	0

- Molecule 14 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

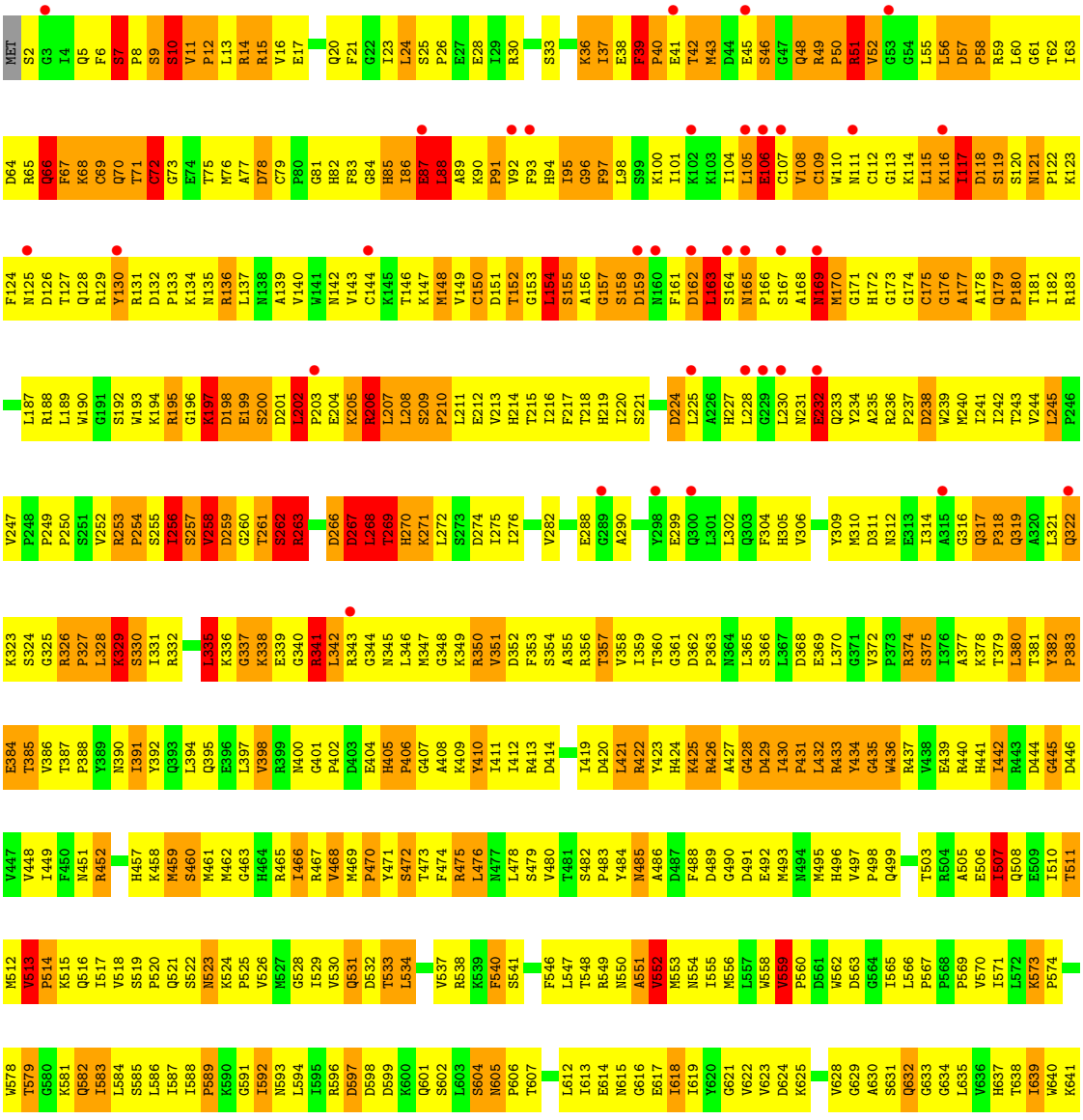
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
14	A	1	Total Mg 1 1	0	0
14	M	1	Total Mg 1 1	0	0

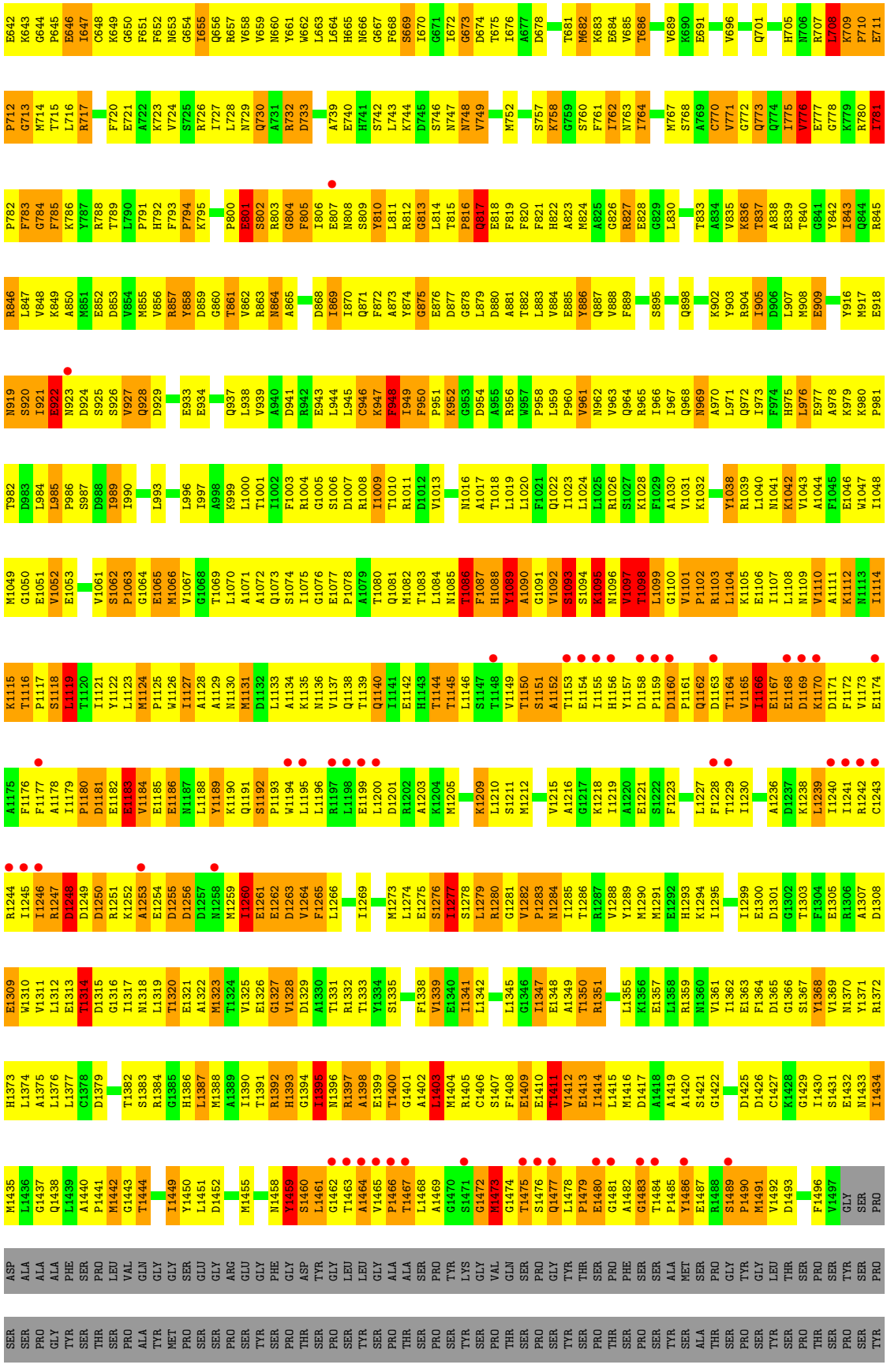
3 Residue-property plots (i)

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

- Molecule 1: DNA-directed RNA polymerase II subunit rpb1

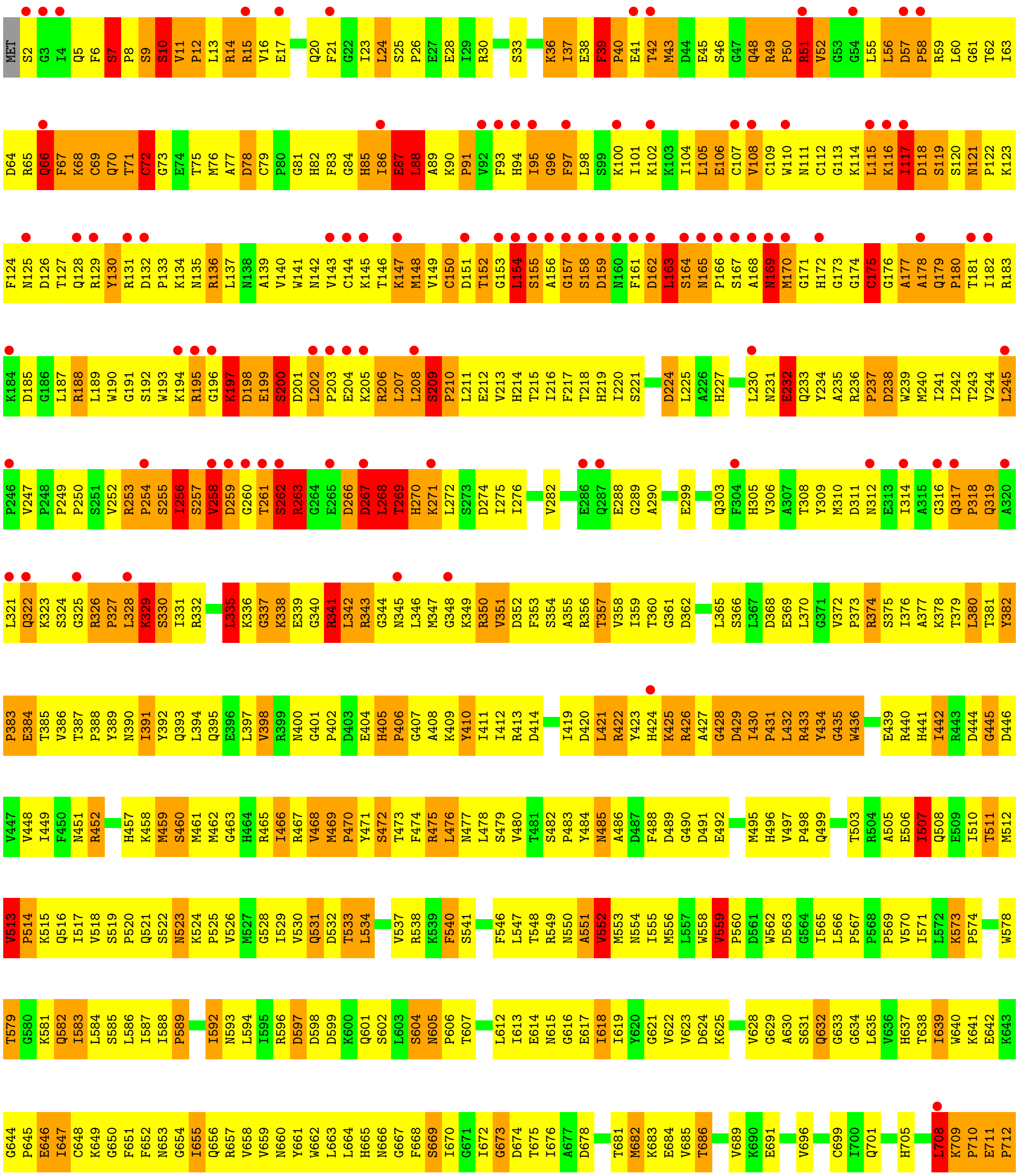
Chain A:

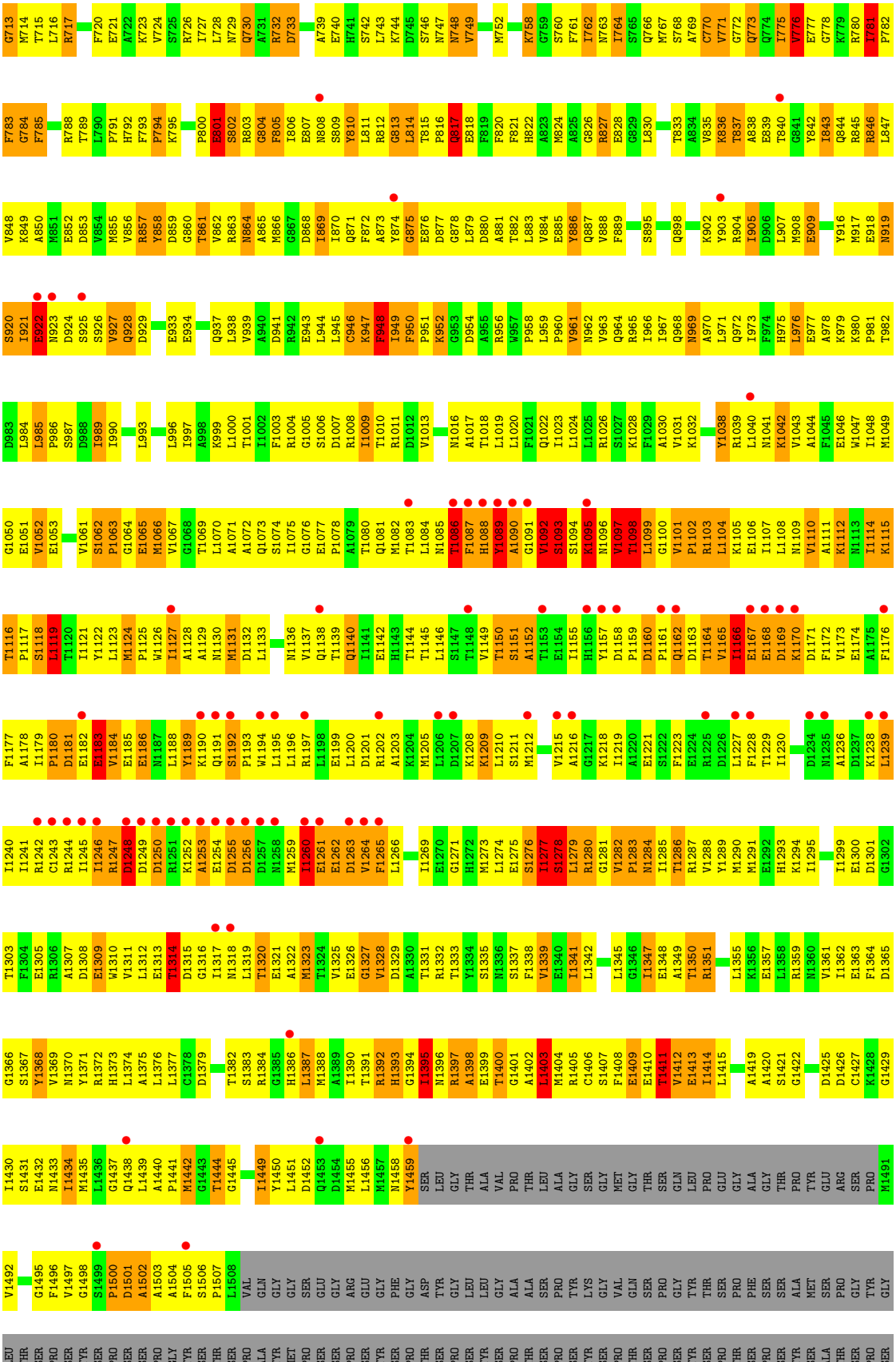


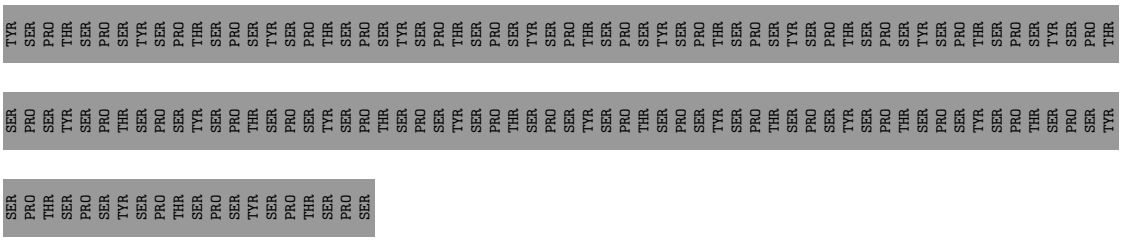


- Molecule 1: DNA-directed RNA polymerase II subunit rpb1

Chain M:

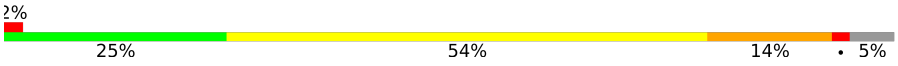


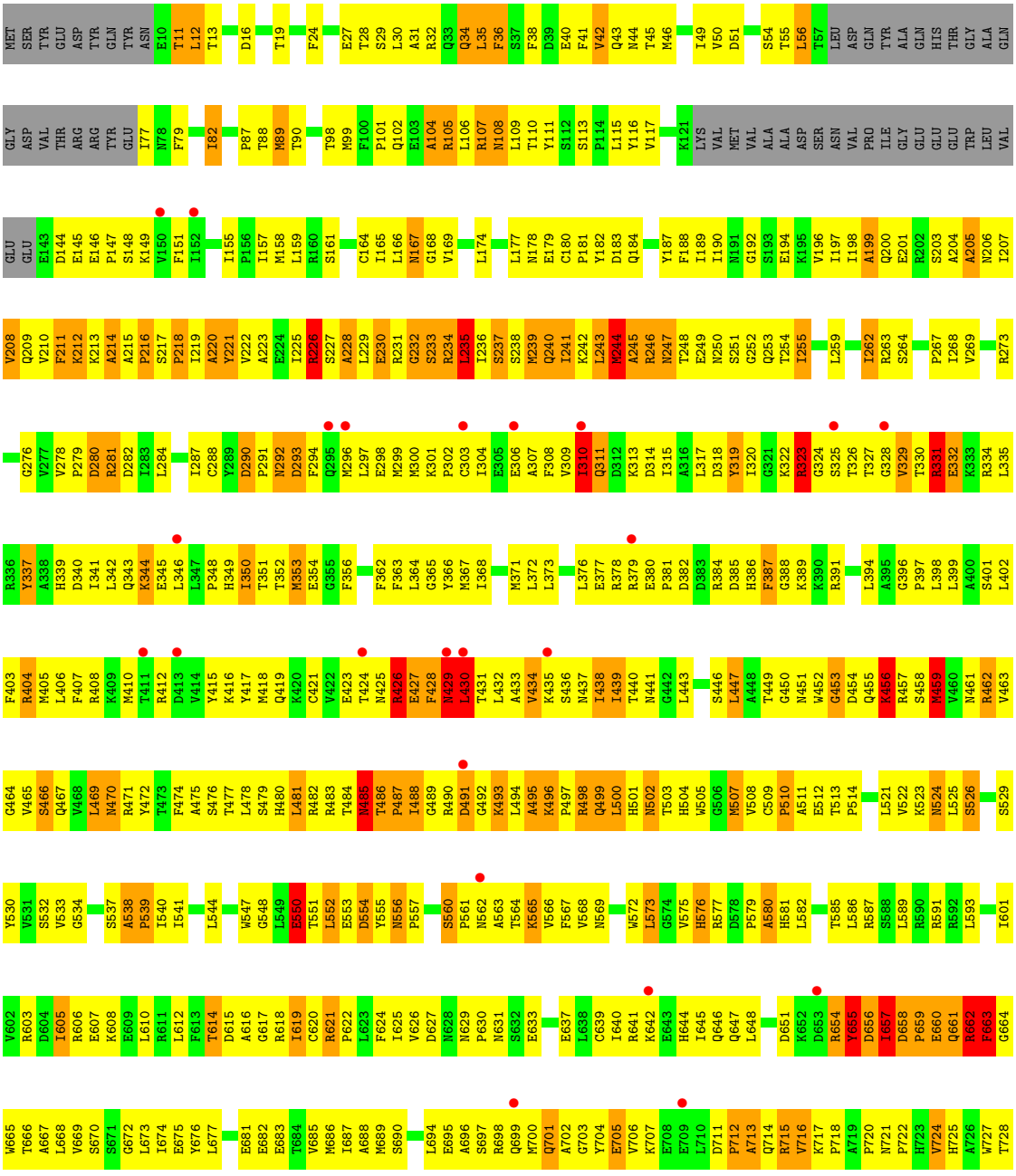


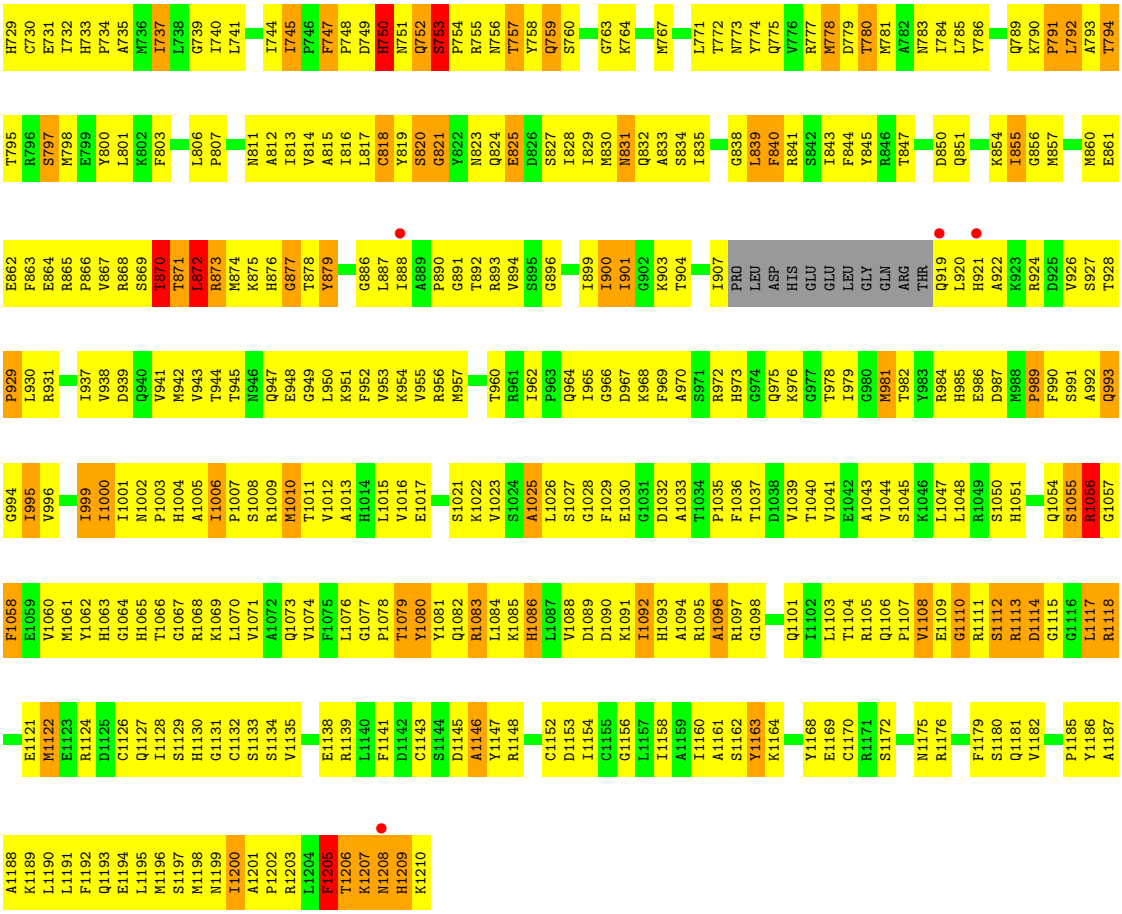


• Molecule 2: DNA-directed RNA polymerase II subunit RPB2

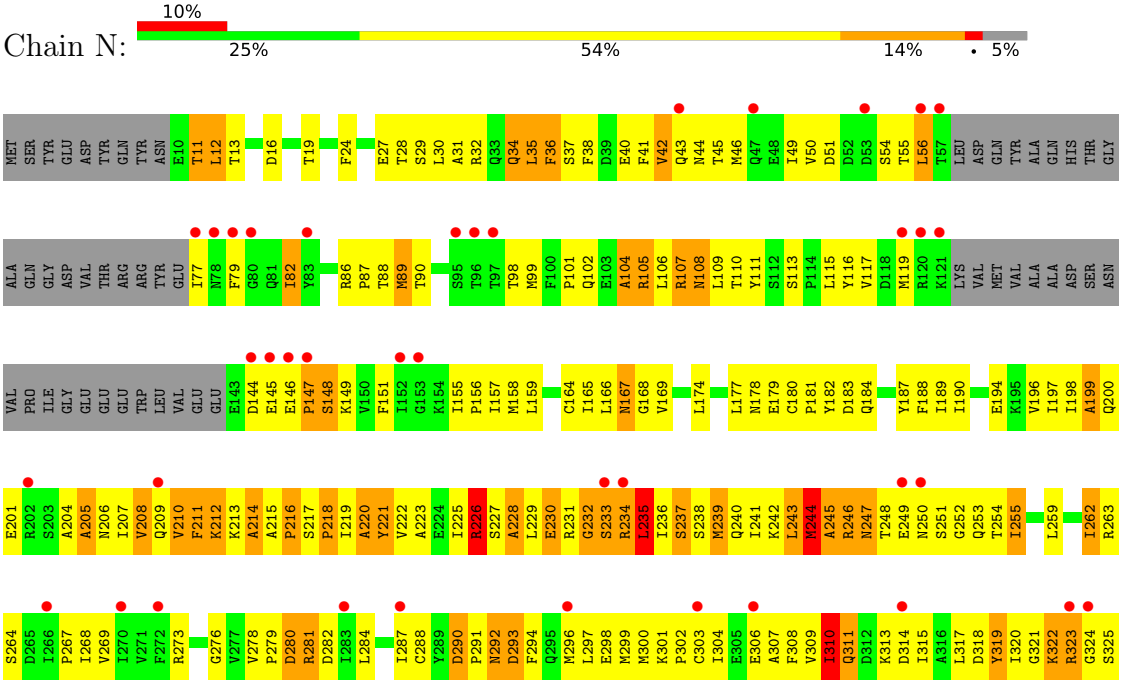
Chain B:

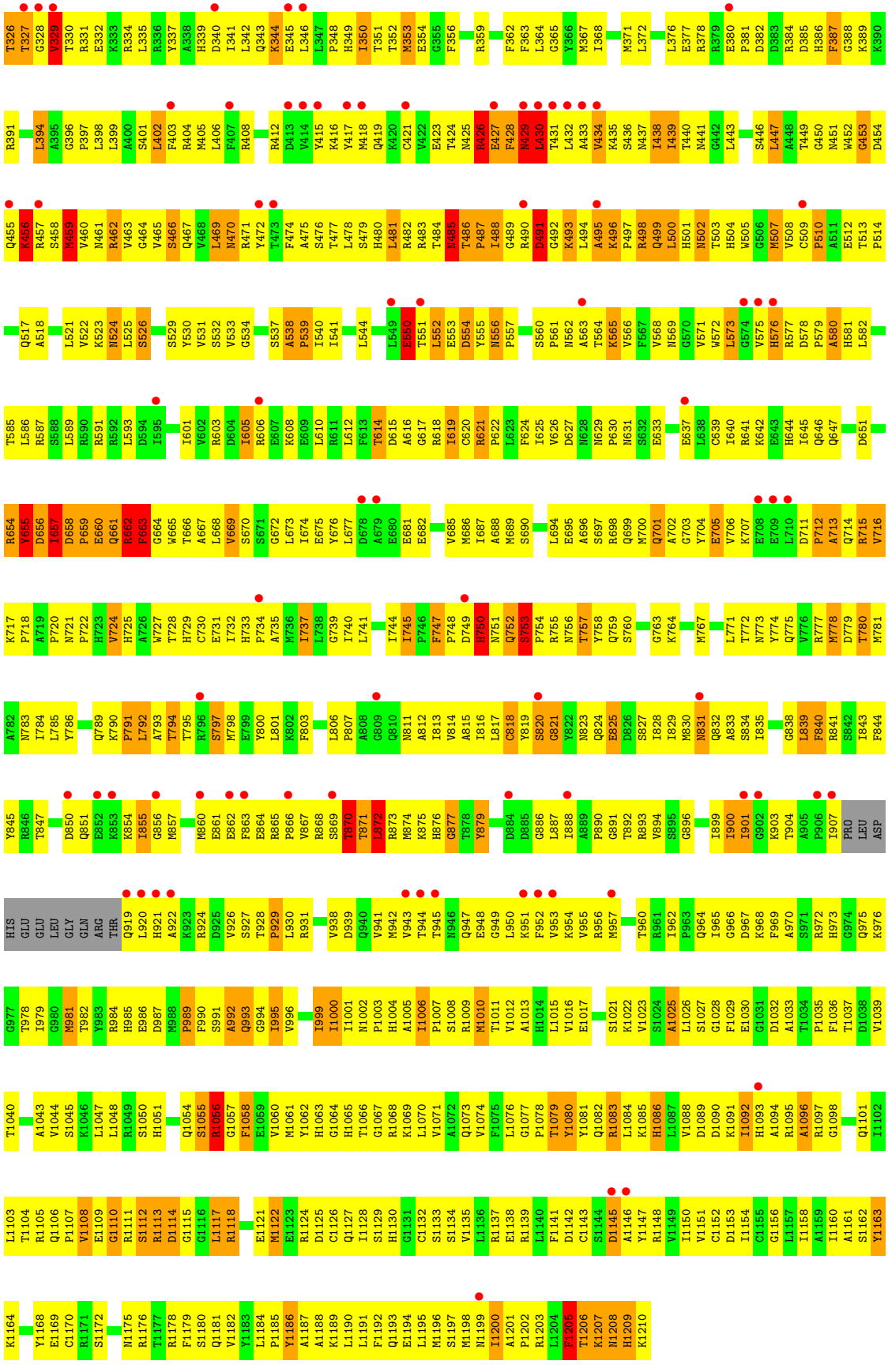






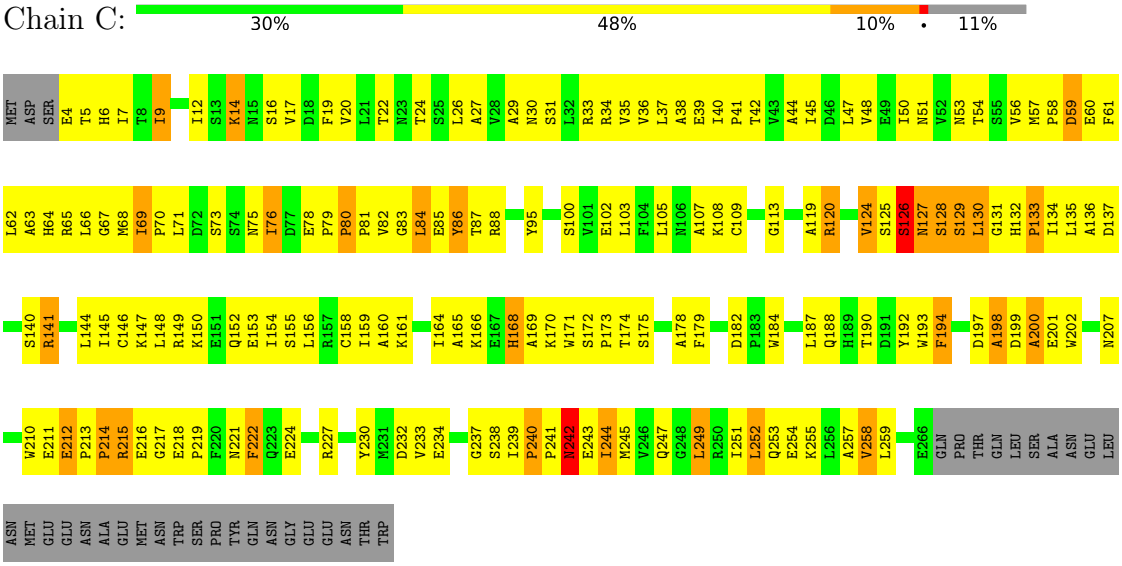
• Molecule 2: DNA-directed RNA polymerase II subunit RPB2




T326 T327 G328 V329 T330 R331 E332 K333 R334 L335 R336 Y337 A338 H339 D340 I341 L342 Q343 K344 E345 L346 L347 P348 H349 I350 T351 T352 M353 E354 G355 F356 R359 F362 F363 L364 G365 Y366 M367 I368 M371 L372 L376 E377 R378 R379 E380 P381 D382 D383 R384 D385 H386 F387 G388 K389 K390
R391 L394 A396 G396 P397 L398 L399 A400 S401 L402 F403 R404 M405 L406 F407 R408 R412 D413 V414 Y415 K416 Y417 M418 Q419 K420 C421 V422 E423 T424 N425 R426 E427 F428 N429 L430 T431 L432 A433 V434 K435 S436 N437 I438 I439 T440 N441 G442 L443 S446 L447 A448 T449 G450 N451 W452 G453 D454
Q455 K456 R457 S458 M459 V460 N461 R462 V463 G464 V465 S466 Q467 V468 L469 N470 R471 Y472 T473 F474 A475 S476 T477 L478 S479 H480 L481 R482 R483 T484 N485 T486 P487 I488 G489 R490 D491 G492 K493 L494 A495 K496 P497 R498 Q499 L500 H501 N502 T503 H504 W505 G506 M507 V508 C509 P510 A511 E512 T513 P514
Q517 A518 L521 V522 K523 N524 L525 S526 S529 Y530 V531 S532 V533 G534 S537 A538 P539 I540 I541 L544 L549 E550 T551 L552 E553 D554 Y555 N556 P557 S560 P561 N562 A563 T564 K565 V566 F567 V568 N569 G570 V571 W572 L573 G574 V575 H576 R577 D578 P579 A580 H581 L582
T585 L586 R587 S588 L589 R590 R591 R592 L593 D594 I595 I601 V602 R603 D604 I605 R606 E607 K608 E609 L610 R611 L612 F613 T614 D615 A616 G617 R618 I619 C620 R621 P622 L623 F624 I625 V626 D627 H628 N629 P630 M631 S632 E633 E637 L638 G639 I640 R641 K642 E643 H644 I645 Q646 Q647 D651
R654 Y655 D656 I657 D658 P659 E660 Q661 R662 F663 G664 W665 T666 A667 L668 V669 S670 S671 G672 L673 I674 E675 Y676 L677 D678 A679 E680 E681 E682 V685 M686 I687 A688 M689 S690 L694 E695 A696 S697 N629 R698 Q699 M700 Q701 A702 G703 Y704 E705 V706 K707 E708 E709 L710 D711 P712 A713 Q714 R715 V716
K717 P718 A719 P720 N721 P722 H723 V724 H725 A726 W727 T728 H729 C730 E731 I732 H733 P734 A735 M736 I737 L738 G739 I740 L741 I744 I745 P746 F747 P748 D749 H750 N751 Q752 S753 P754 R755 N756 T757 Y758 Q759 S760 G763 K764 M767 L771 T772 N773 Y774 Q775 V776 R777 M778 D779 T780 M781
A782 N783 I784 L785 Y786 Q789 K790 P791 L792 A793 T794 T795 R796 S797 M798 E799 Y800 L801 K802 F803 L806 P807 A808 G809 Q810 N811 A812 I813 V814 A815 I816 L817 C818 Y819 S820 G821 Y822 N823 Q824 E825 D826 S827 I828 I829 M830 N831 Q832 A833 S834 I835 G838 L839 F840 R841 S842 I843 F844
Y845 R846 T847 D850 Q851 E852 K853 K854 I855 G856 M857 M860 E861 E862 F863 E864 R865 P866 V867 R868 S869 T870 T871 L872 R873 M874 K875 H876 G877 T878 Y879 D884 D885 G886 L887 I888 A889 P890 G891 T892 R893 V894 S895 G896 I899 I900 I901 G902 K903 T904 A905 P906 I907 PRO LEU ASP
HIS GLU GLU LEU GLY GLN ARG THR Q919 L920 H921 A922 K923 R924 D925 V926 S927 T928 P929 L930 R931 V938 D939 Q940 V941 M942 V943 T944 T945 N946 Q947 E948 G949 L950 K951 F952 V953 K954 V955 R956 M957 T960 R961 I962 P963 Q964 I965 G966 D967 K968 F969 A970 S971 R972 H973 G974 Q975 K976
G977 T978 I979 G980 M981 T982 Y983 R984 H985 E986 D987 N988 P989 F990 S991 A992 Q993 G994 I995 V996 I999 I1000 I1001 N1002 P1003 H1004 A1005 I1006 P1007 S1008 R1009 M1010 T1011 V1012 A1013 H1014 L1015 V1016 E1017 S1021 K1022 V1023 S1024 A1025 L1026 S1027 G1028 F1029 E1030 G1031 D1032 A1033 T1034 P1035 F1036 T1037 D1038 V1039
T1040 A1043 V1044 S1045 K1046 L1047 L1048 R1049 S1050 H1051 Q1054 S1055 R1056 G1057 F1058 E1059 V1060 M1061 Y1062 H1063 G1064 H1065 T1066 G1067 R1068 K1069 L1070 V1071 A1072 Q1073 V1074 F1075 L1076 G1077 P1078 T1079 Y1080 Y1081 Q1082 R1083 L1084 K1085 H1086 L1087 V1088 D1089 D1090 K1091 I1092 H1093 A1094 R1095 A1096 R1097 G1098 Q1101 I1102
L1103 T1104 R1105 Q1106 P1107 V1108 E1109 G1110 R1111 S1112 R1113 D1114 G1115 G1116 L1117 R1118 E1121 M1122 E1123 R1124 D1125 C1126 Q1127 I1128 S1129 H1130 G1131 C1132 S1133 S1134 V1135 L1136 R1137 E1138 R1139 L1140 F1141 D1142 C1143 S1144 D1145 A1146 Y1147 R1148 V1149 I1150 V1151 C1152 D1153 I1154 C1155 G1156 L1157 I1158 A1159 I1160 A1161 S1162 Y1163
K1164 Y1168 E1169 C1170 R1171 S1172 N1175 R1176 T1177 R1178 F1179 S1180 Q1181 V1182 Y1183 L1184 P1185 Y1186 A1187 A1188 K1189 L1190 L1191 F1192 Q1193 E1194 L1195 M1196 S1197 M1198 N1199 I1200 A1201 P1202 R1203 L1204 F1205 T1206 K1207 N1208 H1209 K1210

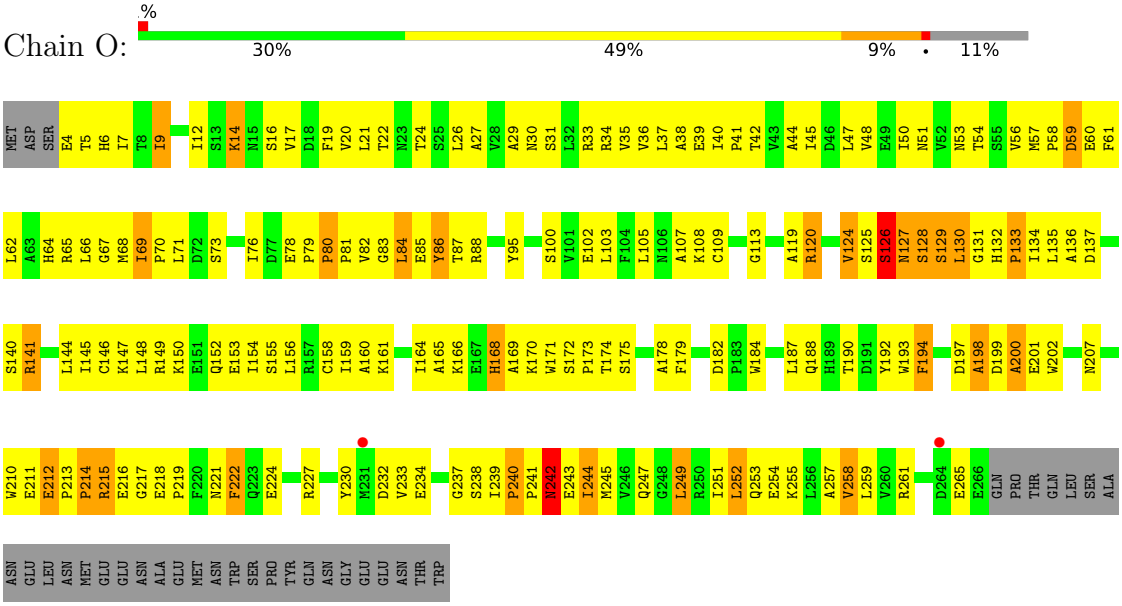
• Molecule 3: DNA-directed RNA polymerase II subunit RPB3

Chain C:



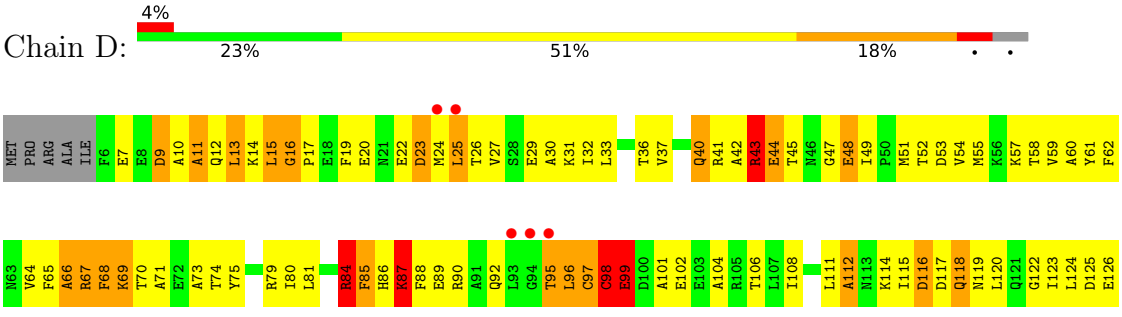
• Molecule 3: DNA-directed RNA polymerase II subunit RPB3

Chain O:

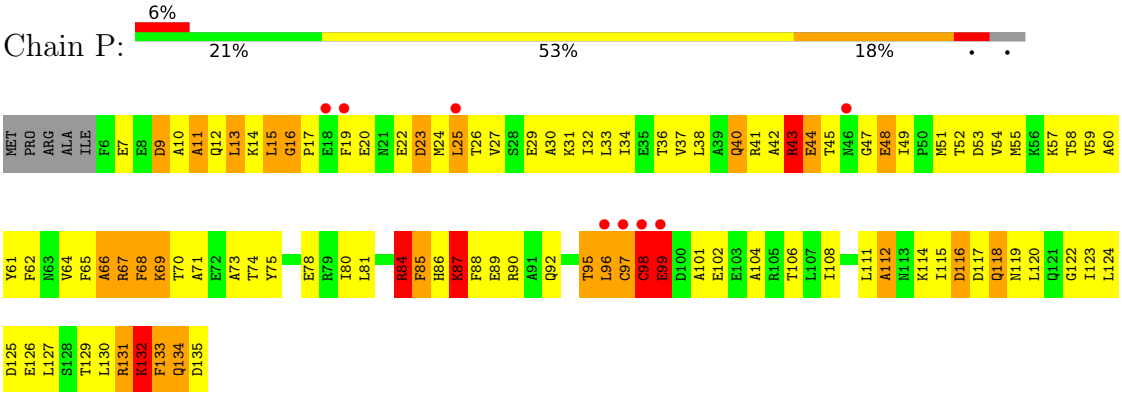


• Molecule 4: DNA-directed RNA polymerase II subunit rpb4

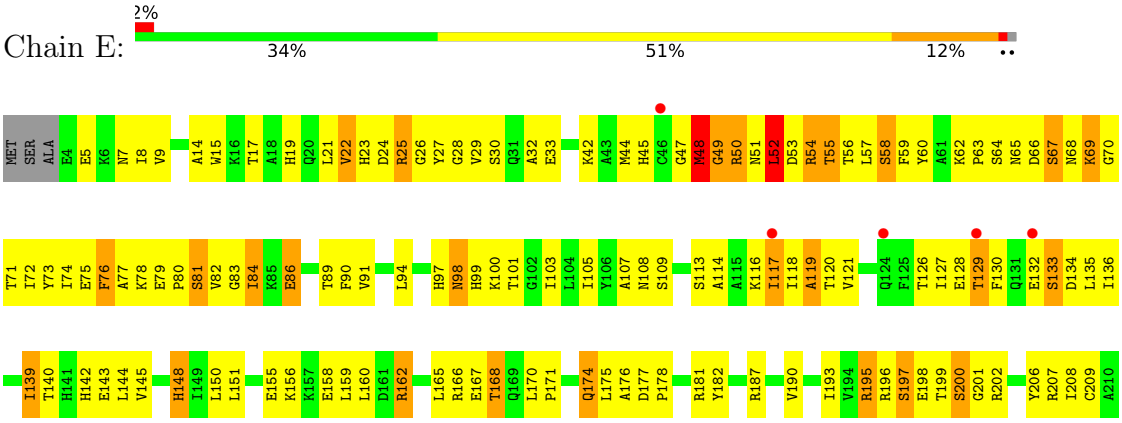
Chain D:



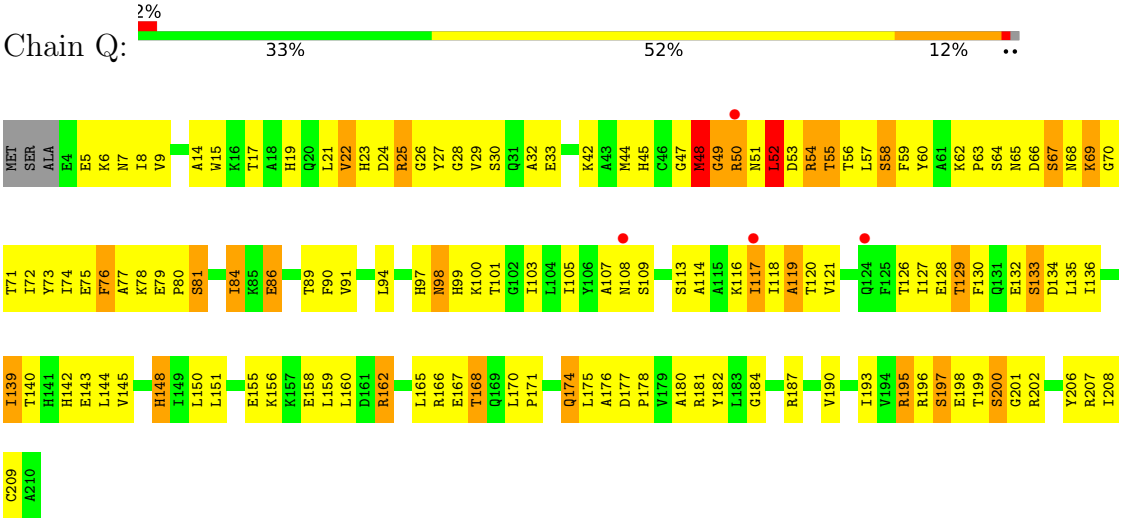
• Molecule 4: DNA-directed RNA polymerase II subunit rpb4



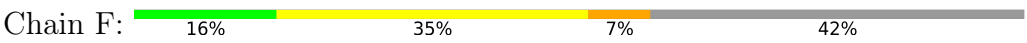
• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1

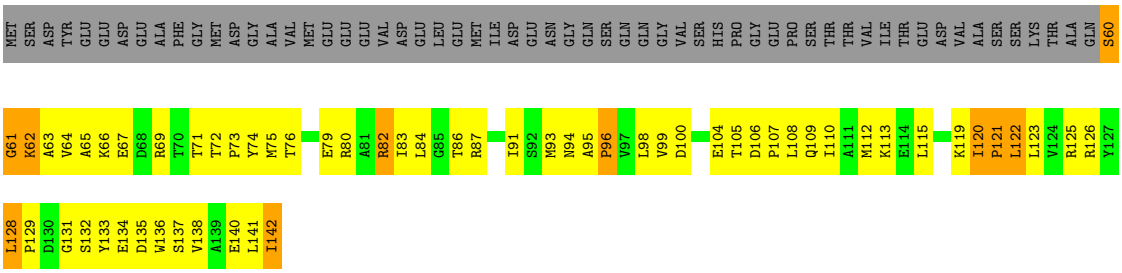


• Molecule 5: DNA-directed RNA polymerases I, II, and III subunit RPABC1



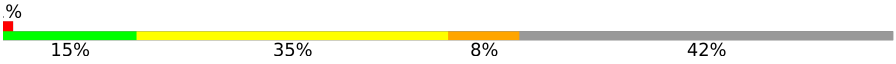
• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

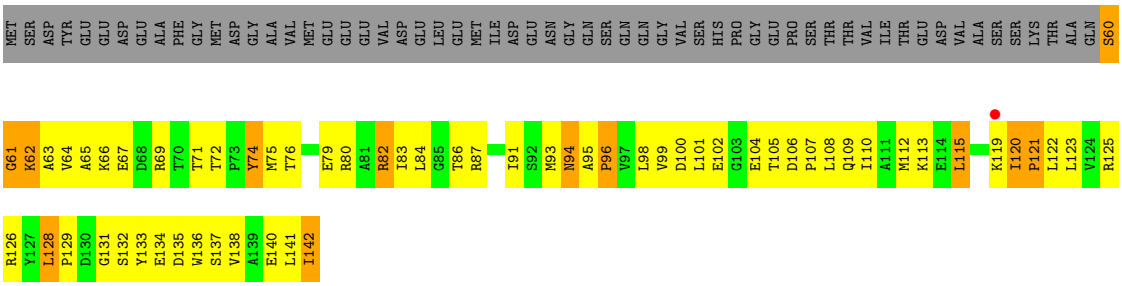




• Molecule 6: DNA-directed RNA polymerases I, II, and III subunit RPABC2

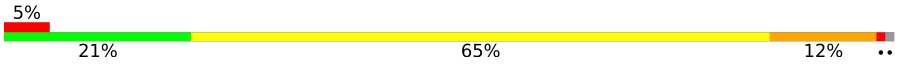
Chain R:

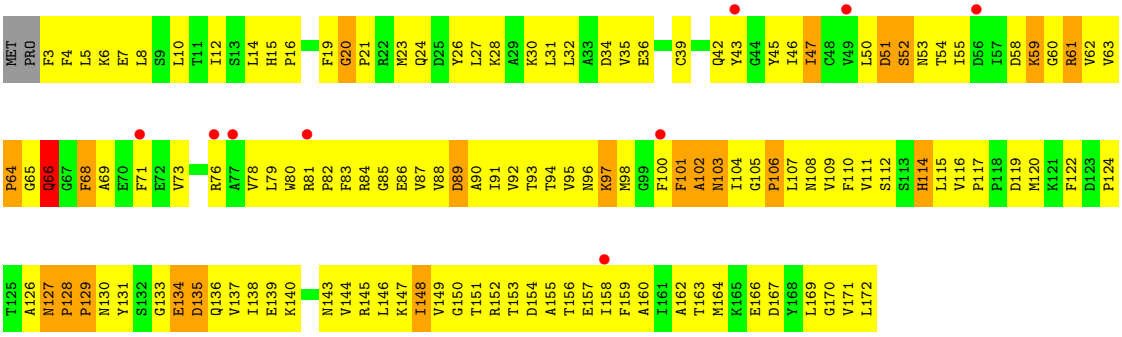




• Molecule 7: DNA-directed RNA polymerase II subunit rpb7

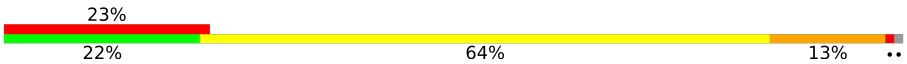
Chain G:

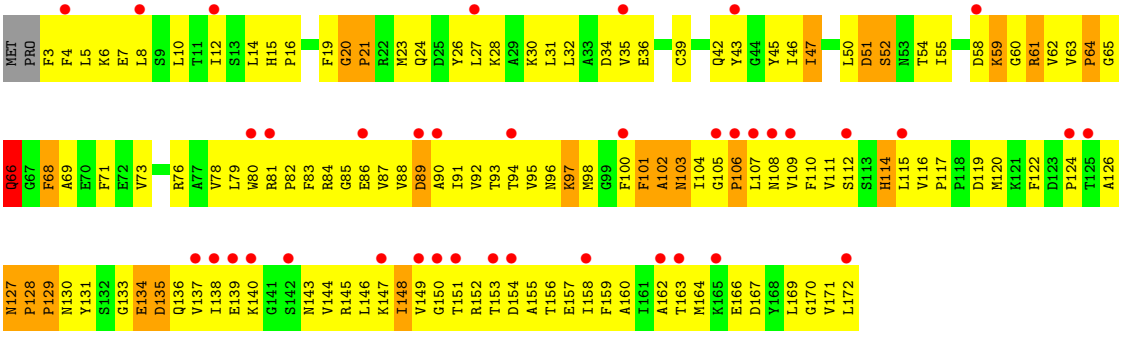




• Molecule 7: DNA-directed RNA polymerase II subunit rpb7

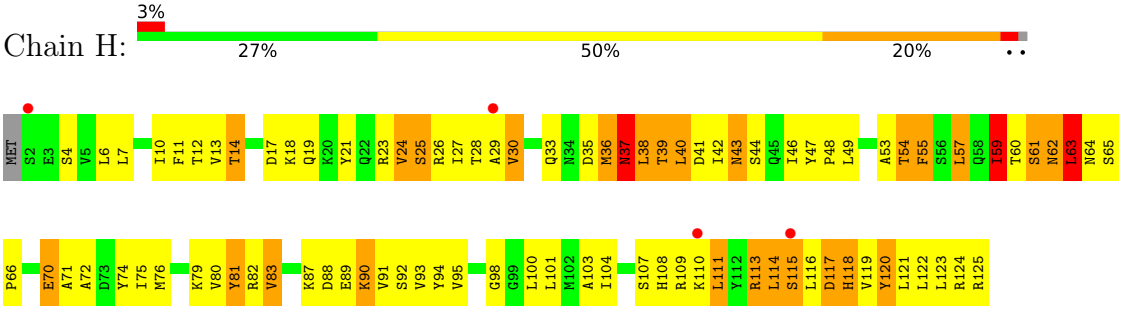
Chain S:





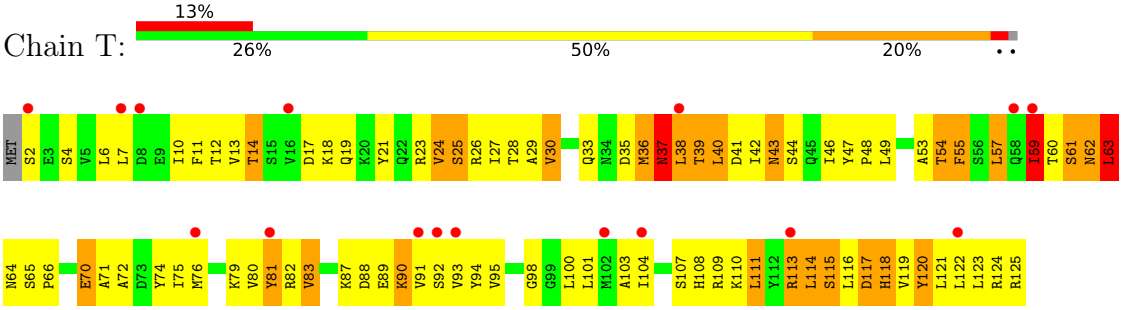
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain H:



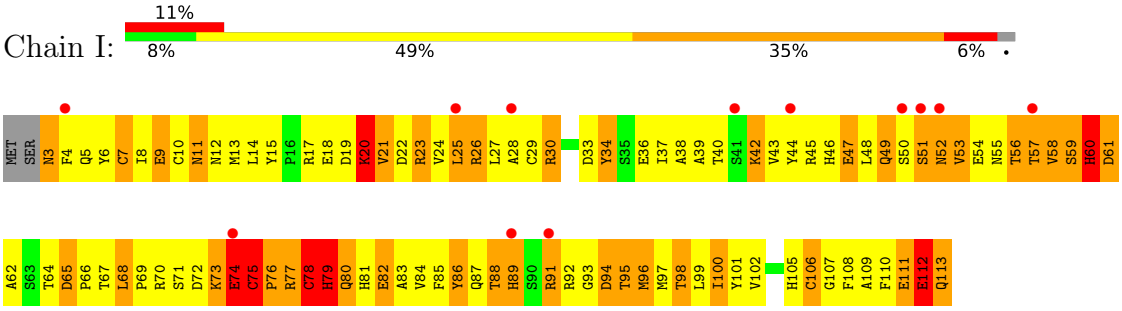
• Molecule 8: DNA-directed RNA polymerases I, II, and III subunit RPABC3

Chain T:



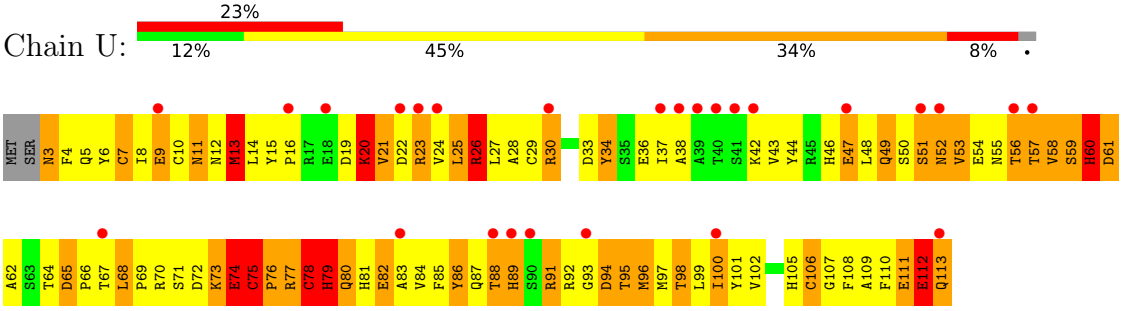
• Molecule 9: DNA-directed RNA polymerase II subunit RPB9

Chain I:



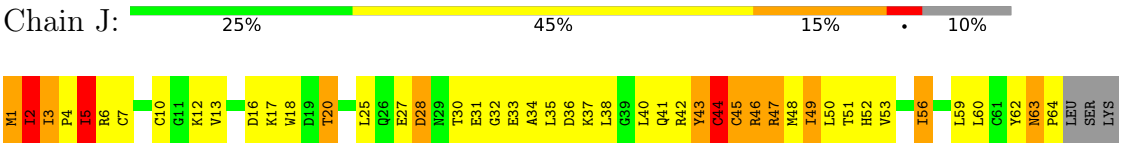
• Molecule 9: DNA-directed RNA polymerase II subunit RPB9

Chain U:



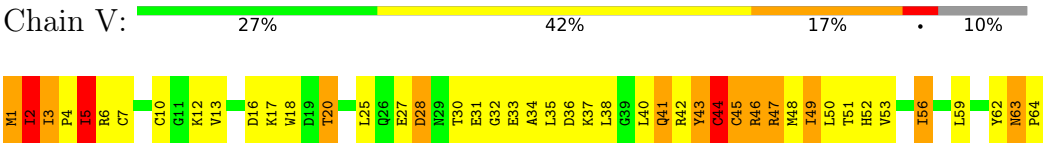
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain J:



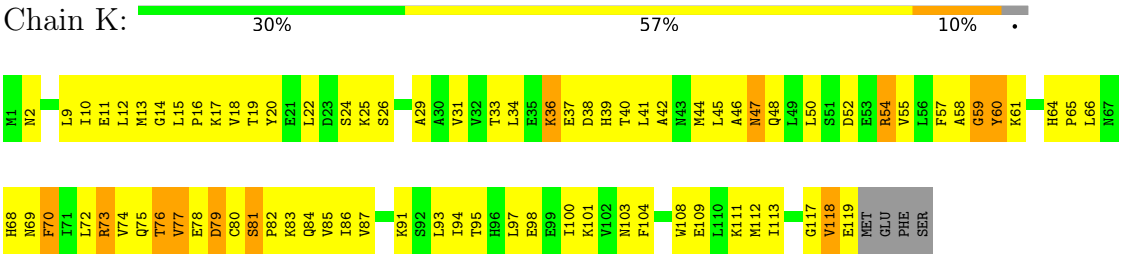
• Molecule 10: DNA-directed RNA polymerases I, II, and III subunit RPABC5

Chain V:



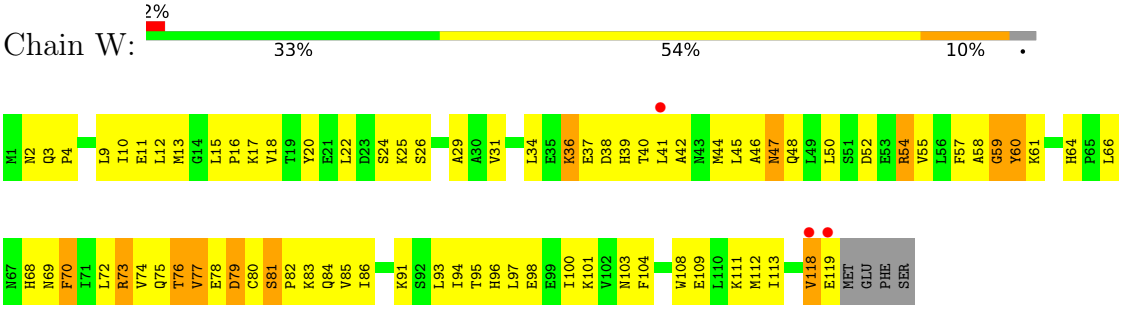
• Molecule 11: DNA-directed RNA polymerase II subunit RPB11

Chain K:



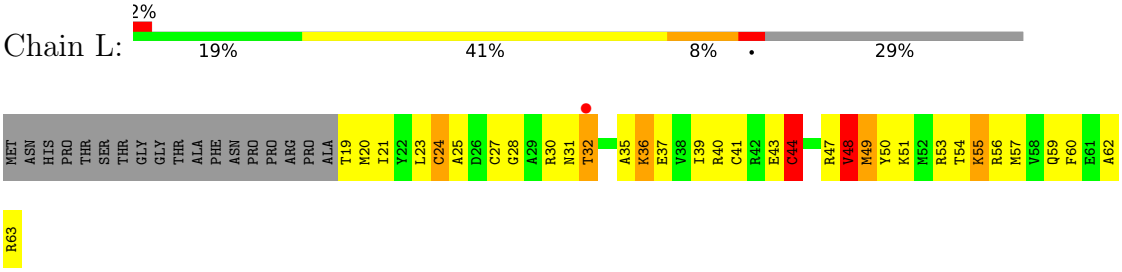
• Molecule 11: DNA-directed RNA polymerase II subunit RPB11

Chain W:



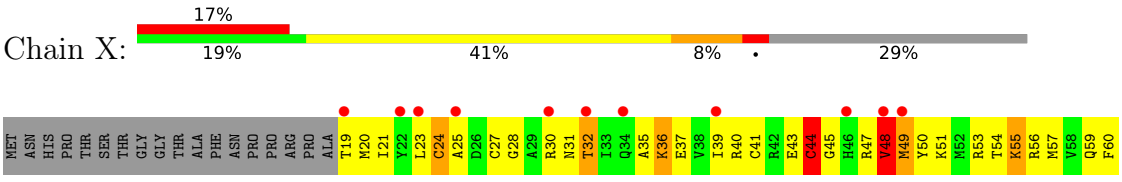
• Molecule 12: DNA-directed RNA polymerases I, II, and III subunit RPABC4

Chain L:



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

Chain X:




R63

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	163.03Å 202.68Å 391.26Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	48.70 – 3.65 48.69 – 3.65	Depositor EDS
% Data completeness (in resolution range)	92.8 (48.70-3.65) 96.2 (48.69-3.65)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	0.09	Depositor
$< I/\sigma(I) >$ [1]	1.66 (at 3.67Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.297 , 0.321 0.292 , 0.296	Depositor DCC
R_{free} test set	6932 reflections (4.99%)	wwPDB-VP
Wilson B-factor (Å^2)	125.6	Xtriage
Anisotropy	0.296	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.26 , 139.6	EDS
L-test for twinning[2]	$< \|L\| > = 0.39$, $< L^2 > = 0.22$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.88	EDS
Total number of atoms	62870	wwPDB-VP
Average B, all atoms (Å^2)	203.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.85% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.41	0/12026	0.57	1/16260 (0.0%)
1	M	0.42	0/11887	0.56	1/16069 (0.0%)
2	B	0.44	0/9360	0.60	5/12643 (0.0%)
2	N	0.43	0/9360	0.59	5/12643 (0.0%)
3	C	0.44	0/2135	0.60	0/2904
3	O	0.44	0/2135	0.59	0/2904
4	D	0.24	0/1049	0.38	0/1412
4	P	0.24	0/1049	0.38	0/1412
5	E	0.38	0/1695	0.60	0/2287
5	Q	0.39	0/1695	0.60	0/2287
6	F	0.50	0/666	0.67	0/901
6	R	0.50	0/666	0.67	0/901
7	G	0.26	0/1361	0.57	3/1847 (0.2%)
7	S	0.26	0/1361	0.57	3/1847 (0.2%)
8	H	0.42	0/1010	0.65	0/1363
8	T	0.42	0/1010	0.65	0/1363
9	I	0.22	0/921	0.37	0/1246
9	U	0.24	0/921	0.37	0/1246
10	J	0.57	0/526	0.77	0/709
10	V	0.57	0/526	0.76	0/709
11	K	0.47	0/972	0.61	0/1317
11	W	0.47	0/972	0.61	0/1317
12	L	0.36	0/371	0.57	0/491
12	X	0.37	0/371	0.57	0/491
All	All	0.41	0/64045	0.58	18/86569 (0.0%)

There are no bond length outliers.

All (18) bond angle outliers are listed below:

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	992	ALA	N-CA-C	-5.71	95.59	111.00
2	N	992	ALA	N-CA-C	-5.69	95.65	111.00
7	G	167	ASP	CB-CG-OD2	5.38	123.14	118.30
7	S	167	ASP	CB-CG-OD2	5.35	123.12	118.30
2	N	711	ASP	CB-CG-OD2	5.30	123.07	118.30
1	M	224	ASP	CB-CG-OD2	5.22	123.00	118.30
1	A	224	ASP	CB-CG-OD2	5.22	123.00	118.30
2	N	491	ASP	CB-CG-OD2	5.21	122.99	118.30
2	B	314	ASP	CB-CG-OD2	5.21	122.99	118.30
2	B	711	ASP	CB-CG-OD2	5.20	122.98	118.30
7	G	34	ASP	CB-CG-OD2	5.18	122.97	118.30
2	N	314	ASP	CB-CG-OD2	5.17	122.96	118.30
7	S	34	ASP	CB-CG-OD2	5.17	122.95	118.30
7	S	89	ASP	CB-CG-OD2	5.15	122.93	118.30
2	B	340	ASP	CB-CG-OD2	5.14	122.92	118.30
2	B	491	ASP	CB-CG-OD2	5.12	122.90	118.30
2	N	340	ASP	CB-CG-OD2	5.12	122.90	118.30
7	G	89	ASP	CB-CG-OD2	5.09	122.88	118.30

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11802	0	11784	3283	0
1	M	11666	0	11647	3212	0
2	B	9180	0	9163	1630	0
2	N	9180	0	9164	1653	0
3	C	2088	0	2045	267	0
3	O	2088	0	2045	269	0
4	D	1036	0	1025	349	0
4	P	1036	0	1025	318	0
5	E	1663	0	1684	205	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	Q	1663	0	1684	209	0
6	F	656	0	679	75	0
6	R	656	0	679	82	0
7	G	1330	0	1329	424	0
7	S	1330	0	1329	425	0
8	H	996	0	1006	168	0
8	T	996	0	1006	178	0
9	I	902	0	840	282	0
9	U	902	0	839	268	0
10	J	518	0	529	90	0
10	V	518	0	529	90	0
11	K	955	0	968	120	0
11	W	955	0	968	113	0
12	L	368	0	380	38	0
12	X	368	0	380	38	0
13	A	2	0	0	0	0
13	B	1	0	0	0	0
13	C	1	0	0	0	0
13	I	2	0	0	0	0
13	J	1	0	0	0	0
13	L	1	0	0	0	0
13	M	2	0	0	0	0
13	N	1	0	0	0	0
13	O	1	0	0	0	0
13	U	2	0	0	0	0
13	V	1	0	0	0	0
13	X	1	0	0	0	0
14	A	1	0	0	0	0
14	M	1	0	0	0	0
All	All	62870	0	62727	12749	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 102.

All (12749) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1161:PRO:HG2	1:M:1190:LYS:CG	1.29	1.62
1:A:1161:PRO:HG2	1:A:1190:LYS:CG	1.29	1.58
1:M:1161:PRO:CG	1:M:1190:LYS:HG2	1.33	1.57
1:M:1091:GLY:HA3	1:M:1092:VAL:CG1	1.35	1.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:267:ASP:CB	1:M:268:LEU:HB2	1.35	1.54
7:S:100:PHE:HB2	7:S:111:VAL:CG1	1.34	1.54
1:A:1161:PRO:CG	1:A:1190:LYS:HG2	1.33	1.53
7:G:100:PHE:HB2	7:G:111:VAL:CG1	1.34	1.53
1:A:267:ASP:CB	1:A:268:LEU:HB2	1.35	1.52
1:M:1276:SER:HA	1:M:1277:ILE:CG2	1.38	1.51
1:A:1276:SER:HA	1:A:1277:ILE:CG2	1.39	1.51
4:P:32:ILE:CD1	4:P:74:THR:HG21	1.38	1.51
1:A:236:ARG:HB2	1:A:239:TRP:CE3	1.45	1.50
2:B:273:ARG:CD	2:B:310:ILE:HD12	1.42	1.49
4:D:32:ILE:CD1	4:D:74:THR:HG21	1.38	1.49
1:M:236:ARG:HB2	1:M:239:TRP:CE3	1.45	1.48
1:A:64:ASP:HB3	1:A:67:PHE:CZ	1.45	1.48
1:M:1276:SER:CB	1:M:1277:ILE:HG12	1.44	1.47
2:B:273:ARG:HD2	2:B:310:ILE:CD1	1.42	1.47
1:M:236:ARG:HB2	1:M:239:TRP:CZ3	1.46	1.47
2:N:273:ARG:CD	2:N:310:ILE:HD12	1.42	1.47
1:M:64:ASP:HB3	1:M:67:PHE:CZ	1.46	1.46
2:N:273:ARG:HD2	2:N:310:ILE:CD1	1.42	1.46
1:A:236:ARG:HB2	1:A:239:TRP:CZ3	1.46	1.46
1:M:708:LEU:HB3	1:M:709:LYS:CA	1.42	1.46
1:M:64:ASP:HB3	1:M:67:PHE:CE1	1.49	1.46
2:B:292:ASN:CA	2:B:293:ASP:HB2	1.42	1.45
1:M:167:SER:N	1:M:168:ALA:HB3	1.30	1.43
1:A:64:ASP:HB3	1:A:67:PHE:CE1	1.49	1.43
1:A:1395:ILE:CD1	1:A:1397:ARG:HB3	1.47	1.43
2:B:229:LEU:HA	2:B:230:GLU:CB	1.41	1.43
1:A:1173:VAL:HG12	1:A:1177:PHE:CE2	1.52	1.43
1:M:1498:GLY:CA	1:M:1500:PRO:HD3	1.46	1.43
4:D:58:THR:HB	4:D:62:PHE:CE2	1.54	1.42
2:N:292:ASN:CA	2:N:293:ASP:HB2	1.42	1.42
4:P:58:THR:HB	4:P:62:PHE:CE2	1.54	1.42
1:M:1166:ILE:CA	1:M:1167:GLU:HB3	1.49	1.42
1:A:517:ILE:HD11	1:A:640:TRP:CD1	1.54	1.42
1:A:106:GLU:HB3	1:A:144:CYS:SG	1.58	1.41
1:A:1276:SER:CB	1:A:1277:ILE:HG12	1.47	1.41
1:A:381:THR:HA	1:A:382:TYR:CB	1.45	1.41
1:M:1173:VAL:HG12	1:M:1177:PHE:CE2	1.51	1.41
1:M:381:THR:HA	1:M:382:TYR:CB	1.44	1.41
1:A:167:SER:N	1:A:168:ALA:HB3	1.31	1.41
1:M:517:ILE:HD11	1:M:640:TRP:CD1	1.54	1.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:107:CYS:SG	1:M:140:VAL:HG11	1.61	1.40
1:A:708:LEU:HB3	1:A:709:LYS:CA	1.42	1.40
1:M:419:ILE:CG2	1:M:425:LYS:HD2	1.49	1.40
1:A:1166:ILE:CA	1:A:1167:GLU:HB3	1.49	1.40
1:M:1395:ILE:CD1	1:M:1397:ARG:HB3	1.50	1.40
2:N:310:ILE:HB	2:N:311:GLN:CA	1.52	1.39
1:M:1166:ILE:HA	1:M:1167:GLU:CB	1.46	1.39
7:S:133:GLY:HA3	7:S:134:GLU:CB	1.50	1.38
1:A:419:ILE:CG2	1:A:425:LYS:HD2	1.49	1.38
2:B:323:ARG:HB3	2:B:324:GLY:CA	1.50	1.37
1:M:781:ILE:HG12	1:M:821:PHE:CD2	1.57	1.37
1:A:42:THR:HG21	1:A:55:LEU:CB	1.53	1.37
1:M:42:THR:HG21	1:M:55:LEU:CB	1.53	1.37
1:M:120:SER:CB	1:M:121:ASN:HB2	1.54	1.37
1:A:107:CYS:SG	1:A:140:VAL:HG11	1.64	1.36
2:B:310:ILE:HB	2:B:311:GLN:CA	1.53	1.36
5:E:49:GLY:CA	5:E:50:ARG:HB2	1.55	1.36
1:A:271:LYS:HE2	1:A:328:LEU:CG	1.55	1.36
4:D:132:LYS:HA	4:D:133:PHE:C	1.41	1.36
1:M:781:ILE:HG12	1:M:821:PHE:CE2	1.59	1.36
2:B:488:ILE:CG2	2:B:489:GLY:HA3	1.54	1.36
1:M:165:ASN:CB	1:M:166:PRO:HA	1.52	1.36
5:Q:49:GLY:CA	5:Q:50:ARG:HB2	1.55	1.36
1:A:120:SER:CB	1:A:121:ASN:HB2	1.53	1.35
1:A:1166:ILE:HA	1:A:1167:GLU:CB	1.46	1.35
1:M:1403:LEU:HD22	1:M:1432:GLU:CG	1.56	1.35
1:M:15:ARG:NH2	7:S:64:PRO:HG2	1.41	1.35
1:M:271:LYS:HE2	1:M:328:LEU:CG	1.55	1.35
2:N:488:ILE:CG2	2:N:489:GLY:HA3	1.54	1.34
4:P:26:THR:OG1	4:P:29:GLU:HB3	1.25	1.34
1:A:846:ARG:NH1	1:A:1391:THR:HA	1.42	1.34
7:G:46:ILE:HA	7:G:79:LEU:CD2	1.58	1.34
2:B:296:MET:HE3	2:B:372:LEU:CB	1.56	1.34
4:D:51:MET:CE	4:D:55:MET:HE2	1.56	1.34
4:P:132:LYS:HA	4:P:133:PHE:C	1.41	1.34
4:D:26:THR:OG1	4:D:29:GLU:HB3	1.25	1.33
8:H:62:ASN:CB	8:H:63:LEU:HB3	1.58	1.33
5:Q:101:THR:HG21	5:Q:126:THR:CG2	1.58	1.33
4:P:51:MET:CE	4:P:55:MET:HE2	1.56	1.33
2:N:229:LEU:HA	2:N:230:GLU:CB	1.41	1.33
4:D:24:MET:SD	4:D:88:PHE:HD1	1.52	1.32

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:137:ASP:CG	3:O:140:SER:HB2	1.50	1.32
1:A:1403:LEU:HD22	1:A:1432:GLU:CG	1.56	1.32
2:N:296:MET:HE3	2:N:372:LEU:CB	1.60	1.32
2:N:907:ILE:HD13	2:N:924:ARG:NH2	1.43	1.32
7:S:46:ILE:HA	7:S:79:LEU:CD2	1.58	1.32
1:M:40:PRO:CG	1:M:276:ILE:HG22	1.60	1.32
5:E:101:THR:HG21	5:E:126:THR:CG2	1.58	1.32
4:P:24:MET:SD	4:P:88:PHE:HD1	1.52	1.32
4:P:51:MET:HE3	4:P:55:MET:CE	1.60	1.32
2:N:291:PRO:HA	2:N:292:ASN:CB	1.51	1.31
1:A:40:PRO:CG	1:A:276:ILE:HG22	1.60	1.31
8:T:62:ASN:CB	8:T:63:LEU:HB3	1.58	1.31
2:B:907:ILE:HD13	2:B:924:ARG:NH2	1.43	1.31
4:D:51:MET:HE3	4:D:55:MET:CE	1.59	1.31
1:M:177:ALA:CB	1:M:179:GLN:HG3	1.57	1.31
1:M:846:ARG:NH1	1:M:1391:THR:HA	1.44	1.30
4:D:99:GLU:CG	4:D:124:LEU:HD21	1.60	1.30
9:I:4:PHE:CE1	9:I:27:LEU:HD21	1.66	1.30
1:M:177:ALA:CB	1:M:178:ALA:HB3	1.60	1.30
1:A:1091:GLY:CA	1:A:1092:VAL:HB	1.55	1.30
1:A:1191:GLN:HB3	1:A:1246:ILE:CG2	1.60	1.30
9:U:4:PHE:CE1	9:U:27:LEU:HD21	1.66	1.30
7:G:5:LEU:CD1	7:G:50:LEU:HD11	1.61	1.29
1:M:708:LEU:CB	1:M:709:LYS:HA	1.59	1.29
1:A:708:LEU:CB	1:A:709:LYS:HA	1.59	1.29
1:A:1276:SER:CA	1:A:1277:ILE:HG12	1.62	1.29
7:G:5:LEU:HD11	7:G:50:LEU:CD1	1.60	1.29
1:M:1091:GLY:HA3	1:M:1092:VAL:CB	1.59	1.29
3:C:137:ASP:CG	3:C:140:SER:HB2	1.50	1.29
4:P:99:GLU:CG	4:P:124:LEU:HD21	1.61	1.29
1:A:1489:SER:HB3	1:A:1490:PRO:CD	1.61	1.29
1:M:1498:GLY:HA3	1:M:1500:PRO:CD	1.61	1.28
7:S:5:LEU:HD11	7:S:50:LEU:CD1	1.60	1.28
1:A:1089:TYR:CA	1:A:1090:ALA:HB3	1.62	1.28
2:B:291:PRO:HA	2:B:292:ASN:CB	1.51	1.28
1:M:1089:TYR:CA	1:M:1090:ALA:HB3	1.62	1.28
1:M:1191:GLN:HB3	1:M:1246:ILE:CG2	1.60	1.28
1:M:1276:SER:CA	1:M:1277:ILE:HG12	1.62	1.28
1:A:1276:SER:CA	1:A:1277:ILE:HG23	1.61	1.28
1:M:1276:SER:CA	1:M:1277:ILE:HG23	1.60	1.27
2:N:215:ALA:C	2:N:217:SER:HB3	1.54	1.27

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:165:ASN:CB	1:A:166:PRO:HA	1.51	1.27
7:G:133:GLY:HA3	7:G:134:GLU:CB	1.50	1.27
7:S:5:LEU:CD1	7:S:50:LEU:HD11	1.62	1.27
7:S:93:THR:HG22	7:S:101:PHE:O	1.33	1.27
1:A:108:VAL:CG1	1:A:113:GLY:HA2	1.63	1.27
2:B:215:ALA:C	2:B:217:SER:HB3	1.54	1.27
1:M:90:LYS:NZ	1:M:282:VAL:HG11	1.50	1.26
1:A:81:GLY:HA3	1:A:249:PRO:CG	1.64	1.26
1:A:166:PRO:C	1:A:168:ALA:HB3	1.55	1.26
9:I:53:VAL:CG1	9:I:56:THR:HB	1.66	1.26
1:M:165:ASN:HB3	1:M:166:PRO:CA	1.65	1.26
1:A:177:ALA:HB1	1:A:178:ALA:C	1.54	1.26
2:B:290:ASP:CA	2:B:292:ASN:HB2	1.64	1.26
1:M:102:LYS:CG	1:M:189:LEU:HD21	1.63	1.26
9:U:53:VAL:CG1	9:U:56:THR:HB	1.66	1.26
1:A:50:PRO:O	1:A:51:ARG:HG2	1.25	1.25
1:M:81:GLY:HA3	1:M:249:PRO:CG	1.64	1.25
1:M:166:PRO:C	1:M:168:ALA:HB3	1.55	1.25
1:A:95:ILE:HG13	1:A:314:ILE:CD1	1.65	1.25
2:B:296:MET:CE	2:B:372:LEU:HB3	1.65	1.25
1:M:150:CYS:HB2	1:M:176:GLY:CA	1.66	1.25
2:B:488:ILE:CB	2:B:489:GLY:HA3	1.61	1.25
7:G:51:ASP:CA	7:G:55:ILE:HD11	1.65	1.25
1:M:177:ALA:HB1	1:M:178:ALA:CB	1.64	1.25
2:B:310:ILE:CB	2:B:311:GLN:HA	1.54	1.25
1:A:90:LYS:NZ	1:A:282:VAL:HG11	1.50	1.25
1:A:120:SER:HB3	1:A:121:ASN:CB	1.67	1.25
2:N:290:ASP:HB2	2:N:292:ASN:CG	1.54	1.25
2:N:296:MET:CE	2:N:372:LEU:HB3	1.65	1.25
2:B:290:ASP:HB2	2:B:292:ASN:CG	1.54	1.24
7:S:51:ASP:CA	7:S:55:ILE:HD11	1.65	1.24
1:A:40:PRO:HG3	1:A:276:ILE:CG2	1.67	1.24
7:G:93:THR:HG22	7:G:101:PHE:O	1.33	1.24
2:N:290:ASP:CA	2:N:292:ASN:HB2	1.64	1.24
2:N:310:ILE:CB	2:N:311:GLN:HA	1.54	1.24
4:D:24:MET:SD	4:D:88:PHE:CD1	2.30	1.24
1:M:120:SER:HB3	1:M:121:ASN:CB	1.67	1.24
1:A:1403:LEU:CD2	1:A:1432:GLU:HG3	1.68	1.24
2:B:454:ASP:CG	2:B:455:GLN:HA	1.57	1.24
1:M:153:GLY:HA2	1:M:174:GLY:CA	1.66	1.24
1:M:362:ASP:OD1	1:M:365:LEU:HG	1.38	1.24

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LYS:O	1:A:148:MET:HG3	1.09	1.23
1:A:165:ASN:HB3	1:A:166:PRO:CA	1.65	1.23
1:A:1101:VAL:HG12	1:A:1102:PRO:CD	1.68	1.23
1:A:1167:GLU:O	1:A:1168:GLU:HG3	1.12	1.23
1:M:1167:GLU:O	1:M:1168:GLU:HG3	1.12	1.23
1:A:71:THR:HG22	1:A:72:CYS:SG	1.79	1.23
1:M:1403:LEU:CD2	1:M:1432:GLU:HG3	1.68	1.23
4:P:25:LEU:CD1	7:S:5:LEU:HB2	1.68	1.23
1:A:1195:LEU:CD1	1:A:1242:ARG:HD3	1.67	1.23
2:B:292:ASN:HA	2:B:293:ASP:CB	1.67	1.23
1:M:379:THR:O	1:M:380:LEU:HD23	1.38	1.23
2:N:229:LEU:CA	2:N:230:GLU:HB3	1.69	1.23
1:A:201:ASP:HB3	1:A:206:ARG:NH1	1.50	1.23
1:A:266:ASP:CB	1:A:267:ASP:HB2	1.68	1.23
1:M:40:PRO:HG3	1:M:276:ILE:CG2	1.67	1.23
1:M:1195:LEU:CD1	1:M:1242:ARG:HD3	1.67	1.23
2:N:454:ASP:CG	2:N:455:GLN:HA	1.57	1.23
4:P:24:MET:SD	4:P:88:PHE:CD1	2.30	1.23
1:A:177:ALA:CB	1:A:178:ALA:HB3	1.68	1.22
1:M:71:THR:HG22	1:M:72:CYS:SG	1.79	1.22
1:A:946:CYS:HB2	1:A:949:ILE:CD1	1.69	1.22
1:M:266:ASP:CB	1:M:267:ASP:HB2	1.68	1.22
1:A:23:ILE:CD1	1:A:1420:ALA:HA	1.69	1.22
1:A:205:LYS:O	1:A:206:ARG:HD2	1.07	1.22
1:M:177:ALA:HB1	1:M:178:ALA:C	1.58	1.22
2:N:488:ILE:CB	2:N:489:GLY:HA3	1.61	1.21
4:D:25:LEU:CD1	7:G:5:LEU:HB2	1.68	1.21
1:M:338:LYS:HG3	1:M:343:ARG:CD	1.69	1.21
1:A:83:PHE:CZ	2:B:1196:MET:HB2	1.76	1.21
1:M:1101:VAL:HG12	1:M:1102:PRO:CD	1.68	1.21
1:A:429:ASP:O	1:A:430:ILE:HD13	1.41	1.21
1:A:517:ILE:CD1	1:A:640:TRP:CD1	2.24	1.21
1:A:846:ARG:HH11	1:A:1391:THR:CA	1.53	1.21
2:B:229:LEU:CA	2:B:230:GLU:HB3	1.69	1.21
1:M:368:ASP:CG	1:M:649:LYS:HE3	1.61	1.21
1:M:1492:VAL:HG12	1:M:1496:PHE:CE2	1.76	1.21
5:Q:100:LYS:O	5:Q:101:THR:HG23	1.38	1.21
1:A:83:PHE:CE2	2:B:1196:MET:HB2	1.76	1.20
7:G:10:LEU:HD22	7:G:35:VAL:CG2	1.72	1.20
1:A:57:ASP:HB3	1:A:58:PRO:CD	1.67	1.20
1:A:1406:CYS:SG	1:A:1415:LEU:HD21	1.81	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:290:ASP:HB2	2:B:292:ASN:ND2	1.54	1.20
1:M:119:SER:H	1:M:120:SER:CA	1.54	1.20
7:S:10:LEU:HD22	7:S:35:VAL:CG2	1.72	1.20
1:M:83:PHE:CE2	2:N:1196:MET:HB2	1.76	1.20
1:M:517:ILE:CD1	1:M:640:TRP:CD1	2.24	1.20
1:M:335:LEU:HD23	1:M:335:LEU:H	1.07	1.20
2:B:329:VAL:HA	2:B:330:THR:CG2	1.71	1.19
1:M:946:CYS:HB2	1:M:949:ILE:CD1	1.69	1.19
1:M:1100:GLY:C	1:M:1102:PRO:HD2	1.62	1.19
2:B:199:ALA:O	2:B:200:GLN:HG2	1.41	1.19
1:M:83:PHE:CZ	2:N:1196:MET:HB2	1.76	1.19
1:M:1397:ARG:HG3	1:M:1398:ALA:H	1.02	1.19
1:A:379:THR:O	1:A:380:LEU:HD23	1.38	1.19
1:A:1100:GLY:C	1:A:1102:PRO:HD2	1.63	1.19
1:M:380:LEU:O	1:M:381:THR:HG22	1.03	1.19
1:M:1406:CYS:SG	1:M:1415:LEU:HD21	1.81	1.19
2:N:290:ASP:HB2	2:N:292:ASN:ND2	1.54	1.19
1:A:1170:LYS:HE2	1:A:1240:ILE:HD11	1.20	1.19
2:N:199:ALA:O	2:N:200:GLN:HG2	1.41	1.19
1:A:108:VAL:HG12	1:A:113:GLY:CA	1.71	1.19
3:C:84:LEU:O	3:C:84:LEU:HD23	1.42	1.19
1:M:429:ASP:O	1:M:430:ILE:HD13	1.41	1.19
1:M:822:HIS:NE2	2:N:753:SER:HB2	1.58	1.19
1:A:207:LEU:HD22	1:A:207:LEU:H	1.03	1.18
1:M:23:ILE:CD1	1:M:1420:ALA:HA	1.71	1.18
1:M:806:ILE:HD13	1:M:814:LEU:CG	1.73	1.18
1:M:775:ILE:O	1:M:776:VAL:HG12	1.42	1.18
1:M:1503:ALA:O	1:M:1507:PRO:HD3	1.42	1.18
2:N:454:ASP:OD1	2:N:455:GLN:HA	1.43	1.18
1:A:177:ALA:HB1	1:A:178:ALA:CB	1.74	1.18
1:A:362:ASP:OD1	1:A:365:LEU:HG	1.38	1.18
2:N:1108:VAL:HG13	2:N:1115:GLY:O	1.42	1.18
1:M:846:ARG:HH11	1:M:1391:THR:CA	1.54	1.18
1:M:1276:SER:HA	1:M:1277:ILE:CB	1.61	1.18
3:O:84:LEU:HD23	3:O:84:LEU:O	1.42	1.18
5:Q:27:TYR:CD2	5:Q:63:PRO:HG3	1.79	1.18
2:B:454:ASP:OD1	2:B:455:GLN:HA	1.43	1.18
5:E:27:TYR:CD2	5:E:63:PRO:HG3	1.79	1.18
1:M:153:GLY:HA2	1:M:174:GLY:HA3	1.19	1.18
2:N:292:ASN:HA	2:N:293:ASP:CB	1.67	1.18
7:S:52:SER:H	7:S:55:ILE:CD1	1.57	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:62:THR:HG21	1:A:75:THR:CG2	1.73	1.17
1:A:380:LEU:O	1:A:381:THR:HG22	1.03	1.17
5:E:100:LYS:O	5:E:101:THR:HG23	1.38	1.17
1:M:50:PRO:O	1:M:51:ARG:HG2	1.37	1.17
1:A:23:ILE:HD11	1:A:1420:ALA:CA	1.72	1.17
2:B:659:PRO:HA	2:B:660:GLU:C	1.59	1.17
2:B:1108:VAL:HG13	2:B:1115:GLY:O	1.42	1.17
4:D:57:LYS:HB3	7:G:105:GLY:O	1.44	1.17
1:M:62:THR:HG21	1:M:75:THR:CG2	1.73	1.17
1:M:208:LEU:HD22	1:M:213:VAL:CG2	1.73	1.17
2:N:659:PRO:HA	2:N:660:GLU:C	1.59	1.17
1:A:343:ARG:HG3	1:A:1409:GLU:OE2	1.42	1.17
1:M:177:ALA:HB1	1:M:178:ALA:CA	1.72	1.17
1:M:177:ALA:CA	1:M:178:ALA:HB3	1.74	1.17
7:S:164:MET:CE	7:S:170:GLY:HA2	1.73	1.17
1:A:106:GLU:CB	1:A:144:CYS:SG	2.32	1.17
1:A:177:ALA:CB	1:A:179:GLN:HG3	1.72	1.17
1:M:208:LEU:HD22	1:M:213:VAL:HG21	1.25	1.17
9:U:73:LYS:CG	9:U:81:HIS:HD2	1.58	1.17
1:A:1276:SER:HA	1:A:1277:ILE:CB	1.60	1.17
1:A:1397:ARG:HG3	1:A:1398:ALA:H	1.02	1.17
6:F:123:LEU:CD2	6:F:137:SER:HA	1.75	1.17
7:G:164:MET:CE	7:G:170:GLY:HA2	1.73	1.17
1:M:23:ILE:HD11	1:M:1420:ALA:CA	1.74	1.17
1:M:48:GLN:HG3	1:M:50:PRO:HG3	1.23	1.17
1:A:260:GLY:HA3	2:B:924:ARG:NE	1.59	1.16
1:A:775:ILE:O	1:A:776:VAL:HG12	1.42	1.16
1:A:1192:SER:H	1:A:1193:PRO:HD3	1.04	1.16
9:I:20:LYS:HD2	9:I:21:VAL:N	1.58	1.16
1:M:1091:GLY:CA	1:M:1092:VAL:HG12	1.75	1.16
1:M:1173:VAL:CG1	1:M:1177:PHE:HE2	1.58	1.16
1:A:119:SER:H	1:A:120:SER:CA	1.54	1.16
1:A:161:PHE:O	1:A:166:PRO:HB3	1.45	1.16
1:A:312:ASN:ND2	1:A:330:SER:HB3	1.60	1.16
1:A:380:LEU:O	1:A:381:THR:CG2	1.94	1.16
1:A:815:THR:HG22	2:B:715:ARG:HB3	1.23	1.16
1:A:1091:GLY:HA3	1:A:1092:VAL:CB	1.69	1.16
9:I:73:LYS:CG	9:I:81:HIS:HD2	1.58	1.16
1:M:57:ASP:HB3	1:M:58:PRO:CD	1.67	1.16
1:M:1195:LEU:HD11	1:M:1242:ARG:CD	1.76	1.16
2:N:200:GLN:HE21	2:N:465:VAL:CG2	1.59	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:LYS:O	1:A:148:MET:CG	1.92	1.16
1:A:177:ALA:HB1	1:A:178:ALA:CA	1.76	1.16
1:A:1290:MET:CE	1:A:1312:LEU:CD2	2.23	1.16
2:B:200:GLN:HE21	2:B:465:VAL:CG2	1.59	1.16
1:M:312:ASN:ND2	1:M:330:SER:HB3	1.60	1.16
1:M:1395:ILE:HD11	1:M:1397:ARG:HD2	1.20	1.16
1:A:335:LEU:HD23	1:A:335:LEU:H	1.07	1.16
1:M:1492:VAL:CG1	1:M:1496:PHE:HE2	1.59	1.16
7:S:59:LYS:HB3	7:S:60:GLY:CA	1.73	1.16
1:A:1465:VAL:HG13	1:A:1466:PRO:HA	1.28	1.16
1:M:192:SER:HB3	1:M:202:LEU:O	1.45	1.16
1:M:208:LEU:CD2	1:M:213:VAL:CG2	2.22	1.16
1:M:380:LEU:O	1:M:381:THR:CG2	1.94	1.16
1:A:177:ALA:CA	1:A:178:ALA:HB3	1.75	1.15
1:A:432:LEU:HA	1:A:436:TRP:CZ2	1.81	1.15
1:M:806:ILE:HD13	1:M:814:LEU:HG	1.18	1.15
1:M:1074:SER:O	1:M:1078:PRO:HD3	1.47	1.15
1:M:1119:LEU:HG	1:M:1314:THR:HB	1.27	1.15
4:D:99:GLU:O	4:D:124:LEU:HD22	1.46	1.15
7:G:52:SER:H	7:G:55:ILE:CD1	1.57	1.15
1:M:374:ARG:HH11	1:M:374:ARG:HB2	0.99	1.15
10:V:43:TYR:HB2	10:V:44:CYS:HA	1.27	1.15
1:A:1101:VAL:CG1	1:A:1102:PRO:HD3	1.76	1.15
4:D:99:GLU:CB	4:D:124:LEU:HD21	1.77	1.15
1:M:161:PHE:O	1:M:166:PRO:HB3	1.45	1.15
1:M:432:LEU:HA	1:M:436:TRP:CZ2	1.81	1.15
4:P:99:GLU:O	4:P:124:LEU:HD22	1.45	1.15
1:A:193:TRP:O	1:A:200:SER:HB3	1.46	1.15
1:A:336:LYS:HG2	1:A:336:LYS:O	1.46	1.15
1:A:1167:GLU:O	1:A:1168:GLU:CG	1.93	1.15
1:A:1478:LEU:HD12	1:A:1479:PRO:HD2	1.28	1.15
1:M:1167:GLU:O	1:M:1168:GLU:CG	1.93	1.15
1:M:1411:THR:O	1:M:1412:VAL:HG12	1.46	1.15
2:N:654:ARG:HB3	2:N:655:TYR:CA	1.77	1.15
6:R:123:LEU:CD2	6:R:137:SER:HA	1.75	1.15
1:A:1173:VAL:CG1	1:A:1177:PHE:HE2	1.58	1.15
1:A:1195:LEU:HD11	1:A:1242:ARG:CD	1.76	1.15
1:A:1412:VAL:HG13	1:A:1413:GLU:N	1.59	1.15
1:M:105:LEU:HD12	1:M:105:LEU:O	1.42	1.15
1:M:202:LEU:HB3	1:M:203:PRO:CD	1.77	1.15
2:N:423:GLU:HG2	2:N:424:THR:HG23	1.22	1.15

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1115:LYS:O	1:A:1117:PRO:HD3	1.47	1.14
2:B:654:ARG:HB3	2:B:655:TYR:CA	1.77	1.14
7:G:147:LYS:CD	7:G:169:LEU:HD11	1.77	1.14
1:M:381:THR:HA	1:M:382:TYR:HB2	1.14	1.14
1:M:1101:VAL:CG1	1:M:1102:PRO:HD3	1.76	1.14
4:P:57:LYS:HB3	7:S:105:GLY:O	1.44	1.14
1:A:64:ASP:CB	1:A:67:PHE:CE1	2.30	1.14
1:A:236:ARG:CB	1:A:239:TRP:CE3	2.30	1.14
1:A:1465:VAL:CG1	1:A:1466:PRO:HB3	1.78	1.14
1:A:1480:GLU:CD	4:D:44:GLU:HG2	1.67	1.14
1:M:1115:LYS:O	1:M:1117:PRO:HD3	1.47	1.14
2:N:212:LYS:HG3	2:N:213:LYS:N	1.55	1.14
2:N:425:ASN:O	2:N:426:ARG:HB2	1.47	1.14
9:U:111:GLU:HG2	9:U:112:GLU:H	0.98	1.14
1:A:1176:PHE:O	1:A:1180:PRO:HD3	1.47	1.14
2:B:656:ASP:O	2:B:657:ILE:HG23	1.46	1.14
11:K:118:VAL:HG22	11:K:119:GLU:N	1.61	1.14
2:N:656:ASP:O	2:N:657:ILE:HG23	1.46	1.14
4:P:32:ILE:CD1	4:P:74:THR:CG2	2.24	1.14
1:A:366:SER:OG	1:A:369:GLU:HG3	1.43	1.14
1:A:1150:THR:CG2	9:I:48:LEU:HD22	1.78	1.14
2:B:212:LYS:HG3	2:B:213:LYS:H	1.03	1.14
7:G:46:ILE:HG12	7:G:79:LEU:HD21	1.30	1.14
2:N:605:ILE:HB	9:U:61:ASP:HB2	1.18	1.14
2:N:1054:GLN:HB3	2:N:1056:ARG:NE	1.62	1.14
4:P:99:GLU:CB	4:P:124:LEU:HD21	1.77	1.14
5:E:49:GLY:HA3	5:E:50:ARG:HB2	1.28	1.14
1:M:267:ASP:CA	1:M:268:LEU:HB2	1.78	1.14
1:M:836:LYS:HG2	1:M:840:THR:HG21	1.25	1.14
7:S:133:GLY:CA	7:S:134:GLU:HB3	1.77	1.14
1:A:25:SER:HB2	1:A:239:TRP:NE1	1.61	1.13
1:A:1074:SER:O	1:A:1078:PRO:HD3	1.47	1.13
1:A:1170:LYS:HE2	1:A:1240:ILE:CD1	1.77	1.13
1:A:1395:ILE:HD11	1:A:1397:ARG:HD2	1.18	1.13
4:D:32:ILE:CD1	4:D:74:THR:CG2	2.24	1.13
1:M:149:VAL:HA	1:M:179:GLN:HG2	1.25	1.13
1:M:328:LEU:O	1:M:328:LEU:HD13	1.49	1.13
2:N:323:ARG:HB3	2:N:324:GLY:CA	1.75	1.13
1:A:42:THR:HG22	1:A:43:MET:N	1.59	1.13
1:M:1146:LEU:HD12	1:M:1274:LEU:HD23	1.30	1.13
5:Q:49:GLY:HA3	5:Q:50:ARG:HB2	1.28	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:108:VAL:CG1	1:A:113:GLY:CA	2.23	1.13
2:B:290:ASP:HA	2:B:292:ASN:CB	1.79	1.13
4:D:69:LYS:O	4:D:70:THR:HG23	1.48	1.13
7:G:133:GLY:CA	7:G:134:GLU:HB3	1.77	1.13
1:M:25:SER:HB2	1:M:239:TRP:NE1	1.61	1.13
1:M:42:THR:HG22	1:M:43:MET:N	1.59	1.13
1:M:64:ASP:CB	1:M:67:PHE:CE1	2.30	1.13
1:M:271:LYS:CE	1:M:328:LEU:HG	1.79	1.13
1:M:467:ARG:HA	1:M:468:VAL:HB	1.28	1.13
1:M:646:GLU:H	1:M:648:CYS:CB	1.61	1.13
7:S:153:THR:HG22	7:S:158:ILE:HG12	1.29	1.13
1:A:95:ILE:HG13	1:A:314:ILE:HD13	1.31	1.13
1:M:1412:VAL:HG13	1:M:1413:GLU:H	1.01	1.13
2:N:290:ASP:HA	2:N:292:ASN:CB	1.79	1.13
4:P:11:ALA:CA	4:P:12:GLN:HB3	1.79	1.13
7:S:147:LYS:CD	7:S:169:LEU:HD11	1.77	1.13
1:A:202:LEU:HB2	1:A:203:PRO:HD2	1.31	1.12
1:A:205:LYS:O	1:A:206:ARG:CD	1.98	1.12
1:A:1411:THR:O	1:A:1412:VAL:HG12	1.46	1.12
2:B:307:ALA:HB1	2:B:310:ILE:HD11	1.18	1.12
2:B:1062:TYR:HE2	2:B:1069:LYS:HG2	1.11	1.12
7:G:153:THR:HG22	7:G:158:ILE:HG12	1.29	1.12
9:I:25:LEU:HB3	9:I:38:ALA:CB	1.79	1.12
1:M:236:ARG:CB	1:M:239:TRP:CE3	2.30	1.13
1:M:1192:SER:H	1:M:1193:PRO:HD3	1.05	1.12
4:P:24:MET:HG2	7:S:4:PHE:CE1	1.84	1.12
1:A:646:GLU:H	1:A:648:CYS:CB	1.61	1.12
1:M:775:ILE:HG13	1:M:1089:TYR:CD2	1.83	1.12
1:M:1170:LYS:HE2	1:M:1240:ILE:HD11	1.20	1.12
1:A:230:LEU:CD1	1:A:237:PRO:HG3	1.79	1.12
1:A:1119:LEU:HG	1:A:1314:THR:HB	1.27	1.12
2:B:508:VAL:HA	2:B:509:CYS:HB2	1.29	1.12
2:B:1054:GLN:HB3	2:B:1056:ARG:NE	1.62	1.12
7:G:59:LYS:CB	7:G:60:GLY:HA2	1.77	1.12
7:G:59:LYS:HB3	7:G:60:GLY:CA	1.73	1.12
1:M:202:LEU:CB	1:M:203:PRO:HD2	1.80	1.12
1:A:1071:ALA:HB2	1:A:1373:HIS:HD2	1.14	1.12
1:A:1146:LEU:HD12	1:A:1274:LEU:HD23	1.24	1.12
1:M:208:LEU:CD2	1:M:213:VAL:HG21	1.77	1.12
1:M:230:LEU:CD1	1:M:237:PRO:HG3	1.79	1.12
3:O:80:PRO:HB2	3:O:81:PRO:HD3	1.12	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:116:VAL:HG13	7:S:117:PRO:HD2	1.19	1.12
1:A:15:ARG:NH2	7:G:64:PRO:HG2	1.65	1.11
1:A:328:LEU:O	1:A:328:LEU:HD13	1.49	1.11
10:J:7:CYS:CB	10:J:45:CYS:HB3	1.80	1.11
1:M:646:GLU:H	1:M:648:CYS:HB3	1.11	1.11
1:M:1194:TRP:CH2	1:M:1262:GLU:CB	2.32	1.11
1:A:271:LYS:HE2	1:A:328:LEU:HG	1.16	1.11
1:A:1194:TRP:CH2	1:A:1262:GLU:CB	2.32	1.11
11:K:14:GLY:HA3	1:M:429:ASP:HB2	1.14	1.11
1:M:1170:LYS:HE2	1:M:1240:ILE:CD1	1.77	1.11
4:P:25:LEU:HD11	7:S:5:LEU:HB2	1.17	1.11
4:P:69:LYS:O	4:P:70:THR:HG23	1.48	1.11
7:S:116:VAL:CG1	7:S:117:PRO:HD2	1.78	1.11
1:A:101:ILE:HD11	1:A:217:PHE:CE2	1.84	1.11
1:A:267:ASP:CA	1:A:268:LEU:HB2	1.78	1.11
1:A:267:ASP:HB3	1:A:268:LEU:HB2	1.32	1.11
1:A:709:LYS:HB3	1:A:710:PRO:HD2	1.16	1.11
1:A:836:LYS:HG2	1:A:840:THR:HG21	1.27	1.11
1:A:1150:THR:CG2	9:I:48:LEU:CD2	2.29	1.11
3:C:130:LEU:HB3	3:C:131:GLY:HA3	1.32	1.11
4:D:11:ALA:HB1	4:D:12:GLN:C	1.71	1.11
1:M:150:CYS:HB2	1:M:176:GLY:HA2	1.29	1.11
1:M:230:LEU:HD11	1:M:237:PRO:HG3	1.19	1.11
1:M:267:ASP:HB3	1:M:268:LEU:HB2	1.32	1.11
1:M:947:LYS:HA	1:M:948:PHE:O	1.50	1.11
1:M:1176:PHE:O	1:M:1180:PRO:HD3	1.47	1.11
2:N:387:PHE:CD2	2:N:503:THR:HG22	1.85	1.11
7:S:59:LYS:CB	7:S:60:GLY:HA2	1.78	1.11
1:A:271:LYS:CE	1:A:328:LEU:HG	1.79	1.11
1:A:381:THR:HA	1:A:382:TYR:HB3	1.26	1.11
4:D:24:MET:HG2	7:G:4:PHE:CE1	1.84	1.11
9:I:25:LEU:HB3	9:I:38:ALA:HB2	1.11	1.11
1:M:90:LYS:HZ1	1:M:282:VAL:HG11	0.96	1.11
1:M:120:SER:H	1:M:122:PRO:N	1.49	1.11
1:M:405:HIS:HB3	1:M:406:PRO:CD	1.80	1.11
1:M:709:LYS:HB3	1:M:710:PRO:HD2	1.16	1.11
1:A:105:LEU:HD13	1:A:182:ILE:HD12	1.16	1.11
1:A:1282:VAL:CB	1:A:1285:ILE:HD12	1.81	1.11
3:C:212:GLU:HB2	3:C:213:PRO:HA	1.29	1.11
4:D:11:ALA:CA	4:D:12:GLN:HB3	1.79	1.11
7:G:116:VAL:CG1	7:G:117:PRO:HD2	1.78	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:62:ASN:HA	8:H:63:LEU:HB2	1.12	1.11
1:M:1165:VAL:HG12	1:M:1166:ILE:N	1.54	1.11
9:U:20:LYS:HD2	9:U:21:VAL:H	1.10	1.11
9:U:111:GLU:CG	9:U:112:GLU:H	1.62	1.11
10:V:7:CYS:CB	10:V:45:CYS:HB3	1.80	1.11
1:A:1150:THR:HB	9:I:48:LEU:HD23	1.17	1.10
1:A:1260:ILE:HG13	1:A:1260:ILE:O	1.48	1.10
1:M:267:ASP:HB2	1:M:268:LEU:HB2	1.29	1.10
3:O:212:GLU:HB2	3:O:213:PRO:HA	1.29	1.10
1:A:62:THR:CG2	1:A:75:THR:HG21	1.82	1.10
1:A:521:GLN:HG3	1:A:1074:SER:HB2	1.13	1.10
1:A:1290:MET:CE	1:A:1312:LEU:HD21	1.81	1.10
4:D:11:ALA:HA	4:D:12:GLN:HB3	1.33	1.10
9:I:20:LYS:HD2	9:I:21:VAL:H	1.01	1.10
1:M:42:THR:HG22	1:M:43:MET:H	0.99	1.10
1:M:521:GLN:HG3	1:M:1074:SER:HB2	1.30	1.10
2:N:386:HIS:HB3	2:N:389:LYS:H	1.06	1.10
4:P:11:ALA:HB1	4:P:12:GLN:C	1.71	1.10
4:P:84:ARG:HG2	4:P:85:PHE:H	1.15	1.10
1:A:120:SER:H	1:A:122:PRO:N	1.49	1.10
1:A:177:ALA:HB3	1:A:179:GLN:HE21	1.16	1.10
1:A:381:THR:HA	1:A:382:TYR:HB2	1.15	1.10
1:A:1089:TYR:HA	1:A:1090:ALA:CB	1.79	1.10
1:A:1150:THR:HG22	9:I:48:LEU:HD22	1.14	1.10
2:B:219:ILE:HG22	2:B:220:ALA:H	1.02	1.10
1:M:271:LYS:HE2	1:M:328:LEU:HG	1.16	1.10
1:M:381:THR:HA	1:M:382:TYR:HB3	1.26	1.10
1:M:1247:ARG:HD3	1:M:1250:ASP:OD2	1.51	1.10
1:A:1101:VAL:CG1	1:A:1102:PRO:CD	2.30	1.10
2:B:423:GLU:HG2	2:B:424:THR:HG23	1.22	1.10
4:D:11:ALA:CB	4:D:12:GLN:HB3	1.80	1.10
7:G:10:LEU:HD23	7:G:31:LEU:HD12	1.34	1.10
7:G:151:THR:HA	7:G:160:ALA:HB2	1.33	1.10
1:M:525:PRO:HD3	1:M:637:HIS:ND1	1.66	1.10
1:M:812:ARG:HD3	2:N:714:GLN:O	1.48	1.10
1:M:1101:VAL:CG1	1:M:1102:PRO:CD	2.30	1.10
7:S:100:PHE:CB	7:S:111:VAL:CG1	2.30	1.10
1:A:467:ARG:HA	1:A:468:VAL:HB	1.28	1.10
2:B:605:ILE:HB	9:I:61:ASP:HB2	1.18	1.10
8:H:59:ILE:O	8:H:60:THR:HG22	1.50	1.10
9:I:4:PHE:HE1	9:I:27:LEU:HD21	0.99	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:109:CYS:HB2	1:M:178:ALA:HB2	1.15	1.10
1:M:1395:ILE:HD12	1:M:1397:ARG:HB3	1.11	1.10
4:P:11:ALA:HA	4:P:12:GLN:HB3	1.33	1.10
1:A:12:PRO:O	1:A:13:LEU:HD23	1.52	1.09
1:A:48:GLN:HG3	1:A:50:PRO:HG3	1.22	1.09
1:A:128:GLN:HG2	1:A:139:ALA:HB1	1.13	1.09
1:A:1247:ARG:HD3	1:A:1250:ASP:OD2	1.51	1.09
1:A:1412:VAL:HG13	1:A:1413:GLU:H	1.01	1.09
2:B:254:THR:CG2	2:B:302:PRO:HB2	1.82	1.09
2:B:343:GLN:O	2:B:344:LYS:HG3	1.51	1.09
1:M:62:THR:CG2	1:M:75:THR:HG21	1.82	1.09
1:M:1089:TYR:HA	1:M:1090:ALA:CB	1.80	1.09
2:N:267:PRO:HB3	2:N:306:GLU:OE1	1.52	1.09
2:N:290:ASP:HB2	2:N:292:ASN:CB	1.82	1.09
4:P:27:VAL:CG2	4:P:95:THR:HG22	1.82	1.09
7:S:151:THR:HA	7:S:160:ALA:HB2	1.32	1.09
9:U:20:LYS:HD2	9:U:21:VAL:N	1.64	1.09
1:A:95:ILE:CG1	1:A:314:ILE:HD13	1.82	1.09
1:A:267:ASP:CB	1:A:268:LEU:CB	2.30	1.09
1:A:405:HIS:HB3	1:A:406:PRO:CD	1.80	1.09
1:A:525:PRO:HD3	1:A:637:HIS:ND1	1.66	1.09
2:B:386:HIS:HB3	2:B:389:LYS:H	1.06	1.09
1:M:202:LEU:CB	1:M:203:PRO:CD	2.30	1.09
1:M:381:THR:CA	1:M:382:TYR:CB	2.30	1.09
2:N:246:ARG:CG	2:N:247:ASN:H	1.66	1.09
2:N:343:GLN:O	2:N:344:LYS:HG3	1.51	1.09
2:N:488:ILE:HG22	2:N:489:GLY:HA3	1.17	1.09
3:O:130:LEU:HB3	3:O:131:GLY:HA3	1.32	1.09
4:P:11:ALA:CB	4:P:12:GLN:HB3	1.80	1.09
1:A:230:LEU:HD13	1:A:237:PRO:HD3	1.34	1.09
1:A:380:LEU:HD13	1:A:497:VAL:HG21	1.33	1.09
1:A:822:HIS:NE2	2:B:753:SER:HB2	1.66	1.09
4:D:11:ALA:HA	4:D:12:GLN:CB	1.83	1.09
7:G:116:VAL:HG13	7:G:117:PRO:HD2	1.19	1.09
1:M:102:LYS:HG2	1:M:189:LEU:CD2	1.81	1.09
1:M:205:LYS:HG2	1:M:206:ARG:N	1.63	1.09
1:M:1091:GLY:CA	1:M:1092:VAL:CG1	2.30	1.09
2:N:254:THR:CG2	2:N:302:PRO:HB2	1.82	1.09
1:A:230:LEU:HD11	1:A:237:PRO:HG3	1.18	1.09
1:A:950:PHE:CB	1:A:951:PRO:HD3	1.82	1.09
2:B:267:PRO:HB3	2:B:306:GLU:OE1	1.52	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:290:ASP:HB2	2:B:292:ASN:CB	1.82	1.09
2:B:429:ASN:O	2:B:430:LEU:HB2	1.51	1.09
4:D:27:VAL:CG2	4:D:95:THR:HG22	1.82	1.09
4:D:99:GLU:HG2	4:D:124:LEU:HD21	1.16	1.09
8:H:62:ASN:CA	8:H:63:LEU:CB	2.30	1.09
10:J:43:TYR:CB	10:J:44:CYS:HA	1.81	1.09
1:M:195:ARG:HG3	1:M:196:GLY:HA2	1.24	1.09
1:M:947:LYS:HB3	1:M:951:PRO:HD2	1.28	1.09
1:M:1091:GLY:CA	1:M:1092:VAL:CB	2.30	1.09
2:N:219:ILE:HG22	2:N:220:ALA:H	1.02	1.09
2:N:307:ALA:HB1	2:N:310:ILE:HD11	1.18	1.09
7:S:46:ILE:HG12	7:S:79:LEU:HD21	1.30	1.09
7:S:100:PHE:HB2	7:S:111:VAL:HG11	1.18	1.09
1:A:236:ARG:CB	1:A:239:TRP:CZ3	2.36	1.09
1:A:266:ASP:HB3	1:A:267:ASP:HB2	1.09	1.09
1:A:513:VAL:HG23	1:A:514:PRO:HD3	1.09	1.09
1:A:646:GLU:H	1:A:648:CYS:HB3	1.12	1.09
1:A:947:LYS:HB3	1:A:951:PRO:HD2	1.28	1.09
1:A:1276:SER:CA	1:A:1277:ILE:CG1	2.30	1.09
2:B:292:ASN:N	2:B:293:ASP:HB2	1.67	1.09
2:B:488:ILE:HB	2:B:489:GLY:CA	1.82	1.09
4:D:25:LEU:HD11	7:G:5:LEU:HB2	1.17	1.09
1:M:85:HIS:HB2	1:M:244:VAL:HG12	1.34	1.09
2:N:391:ARG:HE	2:N:618:ARG:NH2	1.49	1.09
4:P:11:ALA:HA	4:P:12:GLN:CB	1.83	1.09
7:S:10:LEU:HD23	7:S:31:LEU:HD12	1.34	1.09
8:T:62:ASN:CA	8:T:63:LEU:CB	2.30	1.09
1:A:1165:VAL:HG12	1:A:1166:ILE:N	1.54	1.08
1:A:1452:ASP:OD1	6:F:123:LEU:HD11	1.51	1.08
8:H:62:ASN:CB	8:H:63:LEU:CB	2.30	1.08
1:M:12:PRO:O	1:M:13:LEU:HD23	1.53	1.08
1:M:336:LYS:O	1:M:336:LYS:HG2	1.46	1.08
2:N:323:ARG:HB3	2:N:324:GLY:HA2	1.19	1.08
2:N:659:PRO:HB3	2:N:661:GLN:HE21	1.18	1.08
1:A:119:SER:H	1:A:120:SER:HA	1.11	1.08
1:A:419:ILE:CG2	1:A:425:LYS:CD	2.30	1.08
1:A:1395:ILE:HD12	1:A:1397:ARG:HB3	1.09	1.08
7:G:100:PHE:CB	7:G:111:VAL:CG1	2.30	1.08
1:M:208:LEU:H	1:M:208:LEU:CD1	1.61	1.08
1:M:267:ASP:CB	1:M:268:LEU:CB	2.30	1.08
1:M:950:PHE:CB	1:M:951:PRO:HD3	1.82	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:59:ILE:O	8:T:60:THR:HG22	1.50	1.08
8:T:62:ASN:CB	8:T:63:LEU:CB	2.30	1.08
4:D:24:MET:CG	7:G:4:PHE:CE1	2.37	1.08
1:M:192:SER:HB3	1:M:202:LEU:C	1.73	1.08
1:M:419:ILE:CG2	1:M:425:LYS:CD	2.30	1.08
1:M:1276:SER:CA	1:M:1277:ILE:CG1	2.30	1.08
9:U:25:LEU:HB3	9:U:38:ALA:HB2	1.12	1.08
1:A:90:LYS:HZ1	1:A:282:VAL:HG11	0.92	1.08
1:A:196:GLY:O	1:A:197:LYS:HB2	1.46	1.08
1:A:202:LEU:CB	1:A:203:PRO:HD2	1.83	1.08
1:A:947:LYS:HA	1:A:948:PHE:O	1.50	1.08
2:B:281:ARG:HG3	9:I:6:TYR:CZ	1.88	1.08
8:H:63:LEU:O	8:H:63:LEU:HD23	1.53	1.08
1:M:85:HIS:HB2	1:M:244:VAL:CG1	1.82	1.08
1:M:150:CYS:HB2	1:M:176:GLY:C	1.71	1.08
1:M:230:LEU:HD13	1:M:237:PRO:CD	1.84	1.08
1:M:1191:GLN:HB3	1:M:1246:ILE:HG23	1.25	1.08
1:M:1260:ILE:O	1:M:1260:ILE:HG13	1.48	1.08
2:N:292:ASN:N	2:N:293:ASP:HB2	1.67	1.08
4:P:99:GLU:HG2	4:P:124:LEU:HD21	1.18	1.08
1:A:374:ARG:HH11	1:A:374:ARG:HB2	1.02	1.08
1:A:375:SER:HB3	11:K:2:ASN:HD21	1.12	1.08
2:B:264:SER:HB2	2:B:322:LYS:NZ	1.68	1.08
2:B:323:ARG:CB	2:B:324:GLY:CA	2.30	1.08
2:B:425:ASN:O	2:B:426:ARG:HB2	1.47	1.08
3:C:80:PRO:HB2	3:C:81:PRO:HD3	1.12	1.08
1:M:1071:ALA:HB2	1:M:1373:HIS:HD2	1.14	1.08
2:N:281:ARG:HG3	9:U:6:TYR:CZ	1.89	1.08
4:P:98:CYS:HA	4:P:99:GLU:HG3	1.35	1.08
8:T:62:ASN:HA	8:T:63:LEU:HB2	1.12	1.08
1:A:64:ASP:CB	1:A:67:PHE:CZ	2.37	1.07
1:A:85:HIS:HB2	1:A:244:VAL:CG1	1.84	1.07
1:A:1255:ASP:O	1:A:1256:ASP:HB2	1.45	1.07
1:A:1496:PHE:CD2	4:D:33:LEU:HG	1.90	1.07
9:I:20:LYS:CD	9:I:21:VAL:HG23	1.83	1.07
1:M:33:SER:HB2	1:M:84:GLY:HA2	1.32	1.07
1:M:106:GLU:CB	1:M:144:CYS:HB3	1.84	1.07
1:M:128:GLN:HG2	1:M:139:ALA:HB1	1.13	1.07
1:M:178:ALA:C	1:M:180:PRO:HD2	1.73	1.07
2:N:235:LEU:O	2:N:235:LEU:HD22	1.54	1.07
2:N:508:VAL:HA	2:N:509:CYS:HB2	1.29	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:THR:HG23	2:B:1160:ILE:HG23	1.35	1.07
1:A:162:ASP:HA	1:A:165:ASN:HB2	1.35	1.07
1:A:428:GLY:O	1:A:430:ILE:HD12	1.54	1.07
1:A:1165:VAL:HG12	1:A:1166:ILE:H	1.00	1.07
2:B:212:LYS:HG3	2:B:213:LYS:N	1.67	1.07
2:B:235:LEU:O	2:B:235:LEU:HD22	1.54	1.07
1:M:71:THR:HG23	2:N:1160:ILE:HG23	1.35	1.07
1:M:380:LEU:HD13	1:M:497:VAL:HG21	1.29	1.07
2:N:234:ARG:HH21	2:N:408:ARG:NH2	1.53	1.07
3:O:129:SER:CB	3:O:130:LEU:HA	1.80	1.07
10:V:43:TYR:CB	10:V:44:CYS:HA	1.81	1.07
1:A:24:LEU:HB2	2:B:1199:ASN:O	1.52	1.07
1:A:230:LEU:HD13	1:A:237:PRO:CD	1.84	1.07
1:A:1290:MET:HE2	1:A:1312:LEU:CD2	1.83	1.07
1:A:1465:VAL:CG1	1:A:1466:PRO:CA	2.32	1.07
3:C:129:SER:OG	3:C:130:LEU:HA	1.54	1.07
4:D:47:GLY:O	4:D:48:GLU:HB2	1.53	1.07
7:G:35:VAL:HG12	7:G:46:ILE:HG21	1.37	1.07
9:I:111:GLU:HG2	9:I:112:GLU:H	0.98	1.07
1:M:177:ALA:HB3	1:M:179:GLN:HG3	1.17	1.07
1:M:571:ILE:HG12	1:M:573:LYS:HE3	1.30	1.07
1:M:1165:VAL:HG12	1:M:1166:ILE:H	1.00	1.07
2:N:254:THR:HG22	2:N:302:PRO:CB	1.84	1.07
2:N:387:PHE:HD2	2:N:503:THR:CG2	1.68	1.07
2:N:1062:TYR:HE2	2:N:1069:LYS:HG2	1.11	1.07
3:O:130:LEU:HD12	3:O:130:LEU:N	1.70	1.07
4:P:47:GLY:O	4:P:48:GLU:HB2	1.53	1.07
1:A:57:ASP:CB	1:A:58:PRO:HD3	1.84	1.07
2:B:254:THR:HG22	2:B:302:PRO:CB	1.84	1.07
2:B:488:ILE:HG22	2:B:489:GLY:HA3	1.17	1.07
1:M:236:ARG:CB	1:M:239:TRP:CZ3	2.36	1.07
1:M:260:GLY:HA3	2:N:924:ARG:NE	1.70	1.07
1:M:558:TRP:O	1:M:559:VAL:HG13	1.54	1.07
4:P:24:MET:HG2	7:S:4:PHE:CZ	1.89	1.07
11:W:118:VAL:CG2	11:W:119:GLU:H	1.66	1.07
1:A:42:THR:HG22	1:A:43:MET:H	0.99	1.07
1:A:1089:TYR:CA	1:A:1090:ALA:CB	2.30	1.07
2:B:246:ARG:CG	2:B:247:ASN:H	1.66	1.07
4:D:98:CYS:HA	4:D:99:GLU:HG3	1.35	1.07
1:M:208:LEU:HD12	1:M:208:LEU:N	1.64	1.07
1:M:405:HIS:HB3	1:M:406:PRO:HD3	1.12	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:52:SER:N	7:S:55:ILE:HD12	1.70	1.07
1:A:57:ASP:CB	1:A:58:PRO:CD	2.32	1.06
1:A:419:ILE:HG21	1:A:425:LYS:HD2	1.35	1.06
1:A:1282:VAL:HG11	1:A:1285:ILE:CD1	1.85	1.06
3:C:129:SER:CB	3:C:130:LEU:HA	1.80	1.06
9:I:111:GLU:CG	9:I:112:GLU:H	1.62	1.06
1:M:81:GLY:HA3	1:M:249:PRO:HG3	1.36	1.06
1:M:205:LYS:CG	1:M:206:ARG:H	1.64	1.06
1:M:419:ILE:HG21	1:M:425:LYS:HD2	1.35	1.06
1:M:428:GLY:O	1:M:430:ILE:HD12	1.54	1.06
1:M:709:LYS:HB3	1:M:710:PRO:CD	1.84	1.06
1:M:1151:SER:HA	1:M:1152:ALA:HB2	1.08	1.06
4:P:24:MET:CG	7:S:4:PHE:CE1	2.37	1.06
1:A:33:SER:HB2	1:A:84:GLY:HA2	1.27	1.06
1:A:105:LEU:O	1:A:106:GLU:HB2	1.45	1.06
1:A:1191:GLN:HB3	1:A:1246:ILE:HG23	1.24	1.06
2:B:215:ALA:CA	2:B:217:SER:HB3	1.84	1.06
4:D:99:GLU:C	4:D:124:LEU:HD22	1.75	1.06
7:G:46:ILE:HA	7:G:79:LEU:HD23	1.06	1.06
9:I:53:VAL:HG12	9:I:56:THR:HB	1.33	1.06
1:M:64:ASP:CB	1:M:67:PHE:CZ	2.37	1.06
1:M:266:ASP:HB3	1:M:267:ASP:HB2	1.09	1.06
2:N:155:ILE:HD11	2:N:403:PHE:HE1	1.17	1.06
4:P:99:GLU:C	4:P:124:LEU:HD22	1.74	1.06
1:A:81:GLY:HA3	1:A:249:PRO:HG3	1.36	1.06
1:A:107:CYS:SG	1:A:140:VAL:CG1	2.44	1.06
4:D:99:GLU:HG3	4:D:124:LEU:HD11	1.37	1.06
7:G:100:PHE:HB2	7:G:111:VAL:HG11	1.18	1.06
11:K:118:VAL:CG2	11:K:119:GLU:H	1.67	1.06
1:M:1119:LEU:HG	1:M:1314:THR:CB	1.84	1.06
4:P:32:ILE:HD12	4:P:74:THR:HG21	1.07	1.06
1:A:117:ILE:HG21	1:A:125:ASN:HB2	1.09	1.06
1:A:267:ASP:HB2	1:A:268:LEU:HB2	1.29	1.06
1:A:405:HIS:HB3	1:A:406:PRO:HD3	1.12	1.06
3:C:130:LEU:N	3:C:130:LEU:HD12	1.70	1.06
4:D:24:MET:HG2	7:G:4:PHE:CZ	1.89	1.06
1:M:57:ASP:CB	1:M:58:PRO:HD3	1.84	1.06
1:M:106:GLU:HG3	1:M:144:CYS:HB2	1.35	1.06
1:M:155:SER:HB3	1:M:169:ASN:HB2	1.37	1.06
1:M:1412:VAL:HG13	1:M:1413:GLU:N	1.59	1.06
2:N:429:ASN:O	2:N:430:LEU:HB2	1.51	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:W:118:VAL:HG22	11:W:119:GLU:N	1.61	1.06
1:A:1119:LEU:HG	1:A:1314:THR:CB	1.84	1.06
2:B:659:PRO:HB3	2:B:661:GLN:HE21	1.18	1.06
1:M:1089:TYR:CA	1:M:1090:ALA:CB	2.31	1.06
1:A:728:LEU:HD13	1:A:805:PHE:CD1	1.91	1.05
1:A:1282:VAL:HB	1:A:1285:ILE:HD12	1.31	1.05
2:B:386:HIS:HD2	2:B:388:GLY:HA3	1.19	1.05
7:G:52:SER:N	7:G:55:ILE:HD12	1.70	1.05
1:M:1091:GLY:CA	1:M:1092:VAL:HB	1.86	1.05
1:M:1255:ASP:O	1:M:1256:ASP:HB2	1.46	1.05
1:M:1276:SER:HB2	1:M:1277:ILE:CG1	1.85	1.05
2:N:215:ALA:CA	2:N:217:SER:HB3	1.84	1.05
2:N:264:SER:HB2	2:N:322:LYS:NZ	1.71	1.05
3:O:129:SER:OG	3:O:130:LEU:HA	1.54	1.05
7:S:46:ILE:HA	7:S:79:LEU:HD23	1.06	1.05
8:T:62:ASN:CA	8:T:63:LEU:HB2	1.85	1.05
1:A:266:ASP:HB3	1:A:267:ASP:CB	1.86	1.05
1:A:381:THR:CA	1:A:382:TYR:CB	2.30	1.05
1:A:398:VAL:HG11	1:A:411:ILE:HD11	1.38	1.05
1:A:651:PHE:CE2	1:A:655:ILE:HD11	1.92	1.05
1:A:1276:SER:HA	1:A:1277:ILE:CG1	1.86	1.05
1:A:1450:TYR:HD1	7:G:60:GLY:C	1.59	1.05
1:A:1496:PHE:CD2	4:D:33:LEU:HD21	1.91	1.05
4:D:80:ILE:HD11	4:D:130:LEU:HD11	1.37	1.05
7:G:100:PHE:HB2	7:G:111:VAL:HG12	1.35	1.05
8:H:62:ASN:HA	8:H:63:LEU:CB	1.86	1.05
11:K:118:VAL:O	11:K:119:GLU:HG2	1.56	1.05
1:M:119:SER:H	1:M:120:SER:HA	1.12	1.05
1:M:1150:THR:HB	9:U:48:LEU:CD2	1.87	1.05
3:O:249:LEU:HD12	3:O:249:LEU:H	1.21	1.05
7:S:150:GLY:O	7:S:160:ALA:HB1	1.55	1.05
8:T:63:LEU:O	8:T:63:LEU:HD23	1.53	1.05
1:A:263:ARG:O	1:A:263:ARG:HD3	1.55	1.05
1:A:425:LYS:NZ	1:A:430:ILE:HG13	1.70	1.05
1:A:558:TRP:O	1:A:559:VAL:HG13	1.54	1.05
1:A:709:LYS:HB3	1:A:710:PRO:CD	1.84	1.05
1:A:1290:MET:HE2	1:A:1312:LEU:HD21	1.34	1.05
4:D:27:VAL:HG23	4:D:95:THR:HG22	1.36	1.05
7:G:145:ARG:CG	7:G:172:LEU:HD21	1.86	1.05
9:I:79:HIS:O	9:I:80:GLN:HB2	1.55	1.05
1:M:196:GLY:O	1:M:197:LYS:HB2	1.55	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:517:ILE:CD1	1:M:640:TRP:HD1	1.65	1.05
2:N:246:ARG:HG3	2:N:247:ASN:H	1.20	1.05
2:N:386:HIS:HD2	2:N:388:GLY:HA3	1.19	1.05
7:S:145:ARG:HG3	7:S:172:LEU:CD2	1.86	1.05
1:A:85:HIS:HB2	1:A:244:VAL:HG12	1.38	1.05
1:A:177:ALA:HA	1:A:178:ALA:HB3	1.38	1.05
1:A:230:LEU:CD1	1:A:237:PRO:CG	2.33	1.05
1:A:1146:LEU:CD1	1:A:1274:LEU:HD23	1.87	1.05
7:G:145:ARG:HG3	7:G:172:LEU:CD2	1.86	1.05
10:J:43:TYR:HB2	10:J:44:CYS:HA	1.27	1.05
1:M:195:ARG:CG	1:M:196:GLY:HA2	1.87	1.05
1:M:263:ARG:O	1:M:263:ARG:HD3	1.55	1.05
1:M:425:LYS:NZ	1:M:430:ILE:HG13	1.70	1.05
1:M:1395:ILE:HD11	1:M:1397:ARG:HB3	1.38	1.05
1:A:40:PRO:CB	1:A:276:ILE:HG22	1.85	1.05
1:A:95:ILE:O	1:A:98:LEU:HB2	1.57	1.05
1:A:154:LEU:H	1:A:173:GLY:C	1.58	1.05
1:A:1461:LEU:HB3	1:A:1462:GLY:CA	1.87	1.05
8:H:62:ASN:HB2	8:H:63:LEU:HB3	1.38	1.05
1:M:40:PRO:CB	1:M:276:ILE:HG22	1.85	1.05
1:M:162:ASP:HA	1:M:165:ASN:HB2	1.35	1.05
1:M:230:LEU:CD1	1:M:237:PRO:CG	2.33	1.05
1:M:513:VAL:HG23	1:M:514:PRO:HD3	1.09	1.05
9:U:20:LYS:CD	9:U:21:VAL:HG23	1.85	1.05
1:A:205:LYS:HG3	1:A:206:ARG:HE	1.18	1.04
1:A:571:ILE:HG12	1:A:573:LYS:HE3	1.30	1.04
2:B:291:PRO:CA	2:B:292:ASN:HB2	1.85	1.04
7:G:94:THR:HG22	8:T:2:SER:HA	1.38	1.04
9:I:20:LYS:CD	9:I:21:VAL:H	1.69	1.04
1:M:338:LYS:HG3	1:M:343:ARG:HD3	1.32	1.04
1:M:398:VAL:HG11	1:M:411:ILE:HD11	1.39	1.04
1:M:651:PHE:CE2	1:M:655:ILE:HD11	1.92	1.04
1:M:1452:ASP:OD1	6:R:123:LEU:HD11	1.57	1.04
1:M:1492:VAL:HG12	1:M:1496:PHE:HE2	0.93	1.04
2:N:212:LYS:HG3	2:N:213:LYS:H	0.92	1.04
2:N:1026:LEU:HB3	2:N:1051:HIS:HD2	1.22	1.04
5:Q:58:SER:HB2	5:Q:75:GLU:HA	1.37	1.04
2:B:200:GLN:HE21	2:B:465:VAL:HG23	1.22	1.04
2:B:488:ILE:CB	2:B:489:GLY:CA	2.34	1.04
5:E:49:GLY:HA2	5:E:50:ARG:HB2	1.36	1.04
7:G:150:GLY:O	7:G:160:ALA:HB1	1.55	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:62:ASN:CA	8:H:63:LEU:HB2	1.85	1.04
1:M:261:THR:O	1:M:262:SER:HB2	1.53	1.04
1:M:343:ARG:HH11	1:M:343:ARG:CG	1.70	1.04
2:N:869:SER:O	2:N:870:THR:HG22	1.57	1.04
3:O:68:MET:HB3	10:V:6:ARG:HD2	1.39	1.04
4:P:27:VAL:HG23	4:P:95:THR:HG22	1.36	1.04
5:Q:49:GLY:HA3	5:Q:50:ARG:CB	1.86	1.04
1:A:846:ARG:HH11	1:A:1391:THR:HA	0.93	1.04
1:A:1496:PHE:CD2	4:D:33:LEU:CG	2.41	1.04
1:M:117:ILE:HG21	1:M:125:ASN:HB2	1.09	1.04
1:M:232:GLU:O	1:M:232:GLU:HG2	1.56	1.04
1:M:266:ASP:HB3	1:M:267:ASP:CB	1.86	1.04
1:M:728:LEU:HD13	1:M:805:PHE:CD1	1.92	1.04
1:A:24:LEU:HB2	2:B:1199:ASN:C	1.76	1.04
1:A:1112:LYS:H	1:A:1112:LYS:HD3	1.18	1.04
1:A:1151:SER:HA	1:A:1152:ALA:HB2	1.08	1.04
1:A:1465:VAL:HG13	1:A:1466:PRO:CA	1.86	1.04
1:A:1496:PHE:HD2	4:D:33:LEU:CG	1.71	1.04
1:M:558:TRP:CH2	11:W:61:LYS:HG2	1.93	1.04
1:M:781:ILE:CG1	1:M:821:PHE:CE2	2.39	1.04
1:M:806:ILE:CD1	1:M:814:LEU:CD2	2.35	1.04
1:M:1110:VAL:HG11	1:M:1387:LEU:HD13	1.39	1.04
4:P:131:ARG:O	4:P:132:LYS:HB2	1.56	1.04
9:U:53:VAL:HG12	9:U:56:THR:HB	1.33	1.04
1:A:263:ARG:HH21	1:A:263:ARG:HG3	0.90	1.04
1:A:345:ASN:O	1:A:349:LYS:HE2	1.57	1.04
7:G:127:ASN:CB	7:G:128:PRO:HD3	1.88	1.04
1:M:71:THR:HG23	2:N:1160:ILE:CG2	1.88	1.04
1:M:167:SER:N	1:M:168:ALA:CB	2.20	1.04
1:M:263:ARG:HG3	1:M:263:ARG:HH21	0.90	1.04
1:M:846:ARG:HD2	1:M:1390:ILE:O	1.55	1.04
1:M:1140:GLN:O	1:M:1280:ARG:HB3	1.57	1.04
2:N:323:ARG:CB	2:N:324:GLY:CA	2.30	1.04
7:S:145:ARG:CG	7:S:172:LEU:HD21	1.87	1.04
1:A:167:SER:N	1:A:168:ALA:CB	2.20	1.03
1:A:368:ASP:CG	1:A:649:LYS:HE3	1.77	1.03
1:A:1110:VAL:HG11	1:A:1387:LEU:HD13	1.39	1.03
2:B:488:ILE:HD13	2:B:490:ARG:HG2	1.40	1.03
1:M:24:LEU:HB2	2:N:1199:ASN:O	1.56	1.03
1:M:101:ILE:HB	1:M:240:MET:SD	1.97	1.03
1:M:107:CYS:SG	1:M:140:VAL:CG1	2.46	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:120:SER:HB3	1:M:121:ASN:O	1.58	1.03
1:M:198:ASP:O	1:M:199:GLU:HB2	1.56	1.03
1:M:380:LEU:HD12	1:M:442:ILE:CD1	1.88	1.03
1:M:806:ILE:CD1	1:M:814:LEU:HD21	1.85	1.03
2:N:211:PHE:CE2	2:N:384:ARG:HD3	1.93	1.03
2:N:488:ILE:HB	2:N:489:GLY:CA	1.82	1.03
7:S:35:VAL:HG12	7:S:46:ILE:HG21	1.37	1.03
11:W:118:VAL:O	11:W:119:GLU:HG2	1.56	1.03
1:A:177:ALA:HB3	1:A:179:GLN:NE2	1.73	1.03
1:A:337:GLY:HA3	1:A:338:LYS:O	1.56	1.03
1:A:405:HIS:CB	1:A:406:PRO:HD3	1.88	1.03
1:A:558:TRP:CH2	11:K:61:LYS:HG2	1.93	1.03
1:A:846:ARG:HD2	1:A:1390:ILE:O	1.57	1.03
1:A:1142:GLU:O	1:A:1281:GLY:HA2	1.59	1.03
2:B:869:SER:O	2:B:870:THR:HG22	1.57	1.03
4:D:131:ARG:O	4:D:132:LYS:HB2	1.56	1.03
1:M:51:ARG:O	1:M:52:VAL:HB	1.54	1.03
1:M:177:ALA:CB	1:M:178:ALA:CB	2.30	1.03
1:M:645:PRO:O	1:M:646:GLU:HG2	1.57	1.03
2:N:488:ILE:CB	2:N:489:GLY:CA	2.34	1.03
2:N:654:ARG:CB	2:N:655:TYR:HA	1.89	1.03
4:P:99:GLU:CA	4:P:124:LEU:HD22	1.88	1.03
5:Q:49:GLY:HA2	5:Q:50:ARG:HB2	1.36	1.03
7:S:127:ASN:CB	7:S:128:PRO:HD3	1.88	1.03
8:T:62:ASN:HB2	8:T:63:LEU:HB3	1.38	1.03
1:A:120:SER:CB	1:A:121:ASN:CB	2.30	1.03
1:A:128:GLN:O	1:A:136:ARG:HG2	1.57	1.03
1:A:517:ILE:CD1	1:A:640:TRP:HD1	1.65	1.03
1:A:1276:SER:HB2	1:A:1277:ILE:HG12	1.07	1.03
1:M:95:ILE:O	1:M:98:LEU:HB2	1.59	1.03
1:M:120:SER:CB	1:M:121:ASN:CB	2.30	1.03
1:M:120:SER:HB3	1:M:121:ASN:HB2	1.07	1.03
1:M:1146:LEU:CD1	1:M:1274:LEU:HD23	1.89	1.03
2:N:291:PRO:CA	2:N:292:ASN:HB2	1.85	1.03
1:A:40:PRO:HG3	1:A:276:ILE:HG22	1.04	1.03
1:A:1162:GLN:NE2	1:A:1162:GLN:HA	1.73	1.03
2:B:654:ARG:CB	2:B:655:TYR:HA	1.89	1.03
4:D:99:GLU:CA	4:D:124:LEU:HD22	1.88	1.03
1:M:128:GLN:O	1:M:136:ARG:HG2	1.57	1.03
1:M:154:LEU:HA	1:M:173:GLY:HA2	1.40	1.03
1:M:1276:SER:HB2	1:M:1277:ILE:HG12	1.03	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:80:ILE:HD11	4:P:130:LEU:HD11	1.36	1.03
1:A:120:SER:HB3	1:A:121:ASN:O	1.58	1.03
1:A:730:GLN:HA	1:A:733:ASP:OD1	1.59	1.03
4:D:32:ILE:HD12	4:D:74:THR:HG21	1.07	1.03
1:M:507:ILE:HA	1:M:511:THR:HG23	1.40	1.03
1:M:730:GLN:HA	1:M:733:ASP:OD1	1.59	1.03
2:N:378:ARG:HG2	9:U:52:ASN:ND2	1.73	1.03
4:P:58:THR:CB	4:P:62:PHE:HE2	1.70	1.03
1:A:1150:THR:HB	9:I:48:LEU:CD2	1.89	1.02
1:A:1403:LEU:HD22	1:A:1432:GLU:HG3	1.08	1.02
1:A:1489:SER:CB	1:A:1490:PRO:HD3	1.89	1.02
2:B:669:VAL:HG22	2:B:674:ILE:HD11	1.40	1.02
2:B:993:GLN:N	2:B:994:GLY:HA2	1.74	1.02
4:D:58:THR:CB	4:D:62:PHE:HE2	1.71	1.02
7:G:51:ASP:HA	7:G:55:ILE:HD11	1.03	1.02
1:M:163:LEU:O	1:M:163:LEU:HG	1.58	1.02
1:M:1119:LEU:N	1:M:1314:THR:HG22	1.74	1.02
1:M:1403:LEU:HD22	1:M:1432:GLU:HG3	1.08	1.02
2:N:200:GLN:HE21	2:N:465:VAL:HG23	1.22	1.02
8:T:62:ASN:HA	8:T:63:LEU:CB	1.86	1.02
1:A:57:ASP:HB3	1:A:58:PRO:HD3	1.05	1.02
1:A:343:ARG:HD3	2:B:1121:GLU:OE1	1.57	1.02
1:A:1496:PHE:CD2	4:D:33:LEU:CD2	2.42	1.02
7:G:127:ASN:CB	7:G:128:PRO:CD	2.37	1.02
7:G:147:LYS:HD2	7:G:169:LEU:CD1	1.88	1.02
1:M:230:LEU:HD13	1:M:237:PRO:HD3	1.34	1.02
1:M:405:HIS:CB	1:M:406:PRO:HD3	1.88	1.02
1:M:792:HIS:CB	1:M:817:GLN:HE21	1.73	1.02
2:N:488:ILE:HD13	2:N:490:ARG:HG2	1.40	1.02
7:S:100:PHE:HB2	7:S:111:VAL:HG12	1.35	1.02
1:A:778:GLY:C	1:A:1092:VAL:HG23	1.78	1.02
1:A:1474:GLY:O	1:A:1475:THR:HG23	1.59	1.02
1:M:110:TRP:HZ2	1:M:193:TRP:NE1	1.56	1.02
1:M:335:LEU:HD23	1:M:335:LEU:N	1.72	1.02
1:M:337:GLY:HA3	1:M:338:LYS:O	1.56	1.02
2:N:328:GLY:O	2:N:329:VAL:HG22	1.59	1.02
5:Q:101:THR:CG2	5:Q:126:THR:HG22	1.89	1.02
1:A:71:THR:HG23	2:B:1160:ILE:CG2	1.88	1.02
1:A:261:THR:O	1:A:262:SER:HB2	1.52	1.02
1:A:1071:ALA:HB2	1:A:1373:HIS:CD2	1.94	1.02
1:A:1119:LEU:N	1:A:1314:THR:HG22	1.74	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:68:MET:HB3	10:J:6:ARG:HD2	1.39	1.02
3:C:249:LEU:H	3:C:249:LEU:HD12	1.21	1.02
5:E:58:SER:HB2	5:E:75:GLU:HA	1.37	1.02
1:M:25:SER:CB	1:M:239:TRP:NE1	2.23	1.02
1:M:177:ALA:HA	1:M:178:ALA:HB3	1.42	1.02
1:M:581:LYS:HB3	1:M:618:ILE:HD11	1.39	1.02
4:D:85:PHE:CZ	4:D:115:ILE:HG12	1.95	1.02
5:E:101:THR:CG2	5:E:126:THR:HG22	1.89	1.02
1:A:263:ARG:HH21	1:A:263:ARG:CG	1.74	1.01
1:A:1071:ALA:CB	1:A:1373:HIS:CD2	2.43	1.01
1:A:1276:SER:HB2	1:A:1277:ILE:CG1	1.89	1.01
1:M:120:SER:HB3	1:M:121:ASN:C	1.80	1.01
1:M:192:SER:CB	1:M:202:LEU:HA	1.90	1.01
1:M:263:ARG:HH21	1:M:263:ARG:CG	1.73	1.01
2:N:1054:GLN:HB3	2:N:1056:ARG:HE	0.86	1.01
9:U:25:LEU:HB3	9:U:38:ALA:CB	1.89	1.01
1:A:88:LEU:HB2	1:A:243:THR:O	1.60	1.01
1:A:155:SER:CA	1:A:169:ASN:HA	1.91	1.01
1:A:155:SER:HB3	1:A:169:ASN:HB2	1.37	1.01
2:B:659:PRO:HB3	2:B:661:GLN:NE2	1.75	1.01
2:B:1026:LEU:HB3	2:B:1051:HIS:HD2	1.23	1.01
7:G:127:ASN:HB2	7:G:128:PRO:CD	1.91	1.01
1:M:193:TRP:HH2	1:M:206:ARG:HB3	1.25	1.01
1:M:1112:LYS:HD3	1:M:1112:LYS:H	1.18	1.01
2:N:669:VAL:HG22	2:N:674:ILE:HD11	1.40	1.01
7:S:127:ASN:CB	7:S:128:PRO:CD	2.37	1.01
7:S:147:LYS:HD2	7:S:169:LEU:CD1	1.89	1.01
1:A:177:ALA:HB3	1:A:179:GLN:HG3	1.38	1.01
1:A:335:LEU:HD23	1:A:335:LEU:N	1.72	1.01
1:A:581:LYS:HB3	1:A:618:ILE:HD11	1.39	1.01
1:A:645:PRO:O	1:A:646:GLU:HG2	1.57	1.01
1:A:822:HIS:CE1	2:B:753:SER:HB2	1.93	1.01
1:A:1150:THR:CB	9:I:48:LEU:HD23	1.89	1.01
1:A:1195:LEU:HD21	1:A:1242:ARG:NE	1.76	1.01
2:B:246:ARG:HG3	2:B:247:ASN:H	1.20	1.01
8:H:17:ASP:HB3	8:H:19:GLN:HG3	1.41	1.01
1:M:155:SER:CA	1:M:169:ASN:HA	1.90	1.01
1:M:645:PRO:HA	1:M:648:CYS:HB3	1.42	1.01
1:M:1071:ALA:CB	1:M:1373:HIS:CD2	2.43	1.01
1:M:1192:SER:HA	1:M:1245:ILE:O	1.61	1.01
1:M:1195:LEU:HD21	1:M:1242:ARG:NE	1.76	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1260:ILE:HD12	9:U:30:ARG:NH2	1.73	1.01
9:U:68:LEU:HD23	9:U:69:PRO:HD2	1.43	1.01
1:A:1260:ILE:HD12	9:I:30:ARG:NH2	1.74	1.01
1:A:1282:VAL:HG11	1:A:1285:ILE:HD11	1.43	1.01
1:A:1465:VAL:CG1	1:A:1466:PRO:CB	2.37	1.01
2:B:229:LEU:HD11	2:B:231:ARG:NH2	1.75	1.01
2:B:246:ARG:CG	2:B:247:ASN:N	2.21	1.01
2:B:291:PRO:HA	2:B:292:ASN:HB2	1.16	1.01
1:M:57:ASP:HB3	1:M:58:PRO:HD3	1.05	1.01
1:M:105:LEU:HD22	1:M:182:ILE:HB	1.39	1.01
1:M:425:LYS:HZ1	1:M:430:ILE:HG13	1.22	1.01
1:M:432:LEU:HA	1:M:436:TRP:HZ2	1.23	1.01
1:M:1101:VAL:HG13	1:M:1102:PRO:N	1.74	1.01
1:M:1194:TRP:CH2	1:M:1262:GLU:HB2	1.95	1.01
5:Q:199:THR:H	5:Q:200:SER:C	1.64	1.01
7:S:127:ASN:HB2	7:S:128:PRO:CD	1.91	1.01
1:A:25:SER:HB2	1:A:239:TRP:HE1	1.18	1.01
1:A:25:SER:CB	1:A:239:TRP:NE1	2.23	1.01
1:A:321:LEU:HB3	1:A:325:GLY:HA2	1.38	1.01
1:A:781:ILE:HG12	1:A:821:PHE:CE2	1.96	1.01
1:M:38:GLU:O	1:M:40:PRO:HD3	1.61	1.01
1:M:40:PRO:HG3	1:M:276:ILE:HG22	1.04	1.01
1:M:150:CYS:CB	1:M:176:GLY:CA	2.39	1.01
1:M:573:LYS:CB	1:M:574:PRO:HD2	1.91	1.01
1:M:646:GLU:N	1:M:648:CYS:HB3	1.75	1.01
1:M:1071:ALA:HB2	1:M:1373:HIS:CD2	1.95	1.01
1:M:1450:TYR:HD1	7:S:61:ARG:HA	1.25	1.01
2:N:229:LEU:HD11	2:N:231:ARG:NH2	1.75	1.01
2:N:659:PRO:HB3	2:N:661:GLN:NE2	1.75	1.01
4:P:99:GLU:HG3	4:P:124:LEU:HD11	1.37	1.01
1:A:120:SER:HB3	1:A:121:ASN:HB2	1.07	1.00
1:M:343:ARG:HG2	1:M:343:ARG:NH1	1.60	1.00
1:M:388:PRO:HG2	6:R:94:ASN:ND2	1.76	1.00
2:N:328:GLY:O	2:N:329:VAL:HG13	1.61	1.00
7:S:51:ASP:HA	7:S:55:ILE:CD1	1.91	1.00
8:T:17:ASP:HB3	8:T:19:GLN:HG3	1.41	1.00
1:A:38:GLU:O	1:A:40:PRO:HD3	1.61	1.00
1:A:202:LEU:CB	1:A:203:PRO:CD	2.38	1.00
1:A:507:ILE:HA	1:A:511:THR:HG23	1.40	1.00
1:A:1194:TRP:CH2	1:A:1262:GLU:HB2	1.95	1.00
2:B:329:VAL:HA	2:B:330:THR:HG22	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:83:PHE:CE2	2:N:1196:MET:CB	2.44	1.00
1:M:1151:SER:CA	1:M:1152:ALA:HB2	1.90	1.00
1:M:1162:GLN:HA	1:M:1162:GLN:NE2	1.73	1.00
2:N:879:TYR:HA	2:N:899:ILE:HD11	1.43	1.00
1:A:21:PHE:O	1:A:1422:GLY:HA2	1.62	1.00
1:A:359:ILE:HD13	1:A:488:PHE:HD2	1.26	1.00
1:A:1191:GLN:HB3	1:A:1246:ILE:HG22	1.42	1.00
1:A:1461:LEU:HB3	1:A:1462:GLY:O	1.60	1.00
1:A:1465:VAL:HG12	1:A:1466:PRO:CB	1.91	1.00
2:B:823:ASN:HB3	2:B:829:ILE:HG23	1.43	1.00
2:B:879:TYR:HA	2:B:899:ILE:HD11	1.43	1.00
9:I:20:LYS:HD3	9:I:21:VAL:HG23	1.44	1.00
1:M:48:GLN:HG3	1:M:50:PRO:CG	1.91	1.00
1:M:106:GLU:CG	1:M:144:CYS:HB2	1.92	1.00
1:M:119:SER:H	1:M:120:SER:CB	1.75	1.00
1:M:321:LEU:HB3	1:M:325:GLY:HA2	1.38	1.00
2:N:246:ARG:CG	2:N:247:ASN:N	2.21	1.00
2:N:290:ASP:CB	2:N:292:ASN:CG	2.30	1.00
4:P:45:THR:HG21	4:P:49:ILE:CD1	1.92	1.00
9:U:111:GLU:HG2	9:U:112:GLU:N	1.76	1.00
1:A:120:SER:OG	1:A:121:ASN:HB2	1.62	1.00
1:A:1151:SER:CA	1:A:1152:ALA:HB2	1.90	1.00
1:M:1282:VAL:HB	1:M:1285:ILE:HD12	1.42	1.00
2:N:1062:TYR:CE2	2:N:1069:LYS:HG2	1.97	1.00
4:P:61:TYR:HE1	7:S:103:ASN:O	1.44	1.00
1:A:111:ASN:OD1	1:A:216:ILE:HG12	1.62	1.00
3:C:137:ASP:CG	3:C:140:SER:CB	2.30	1.00
3:O:137:ASP:CG	3:O:140:SER:CB	2.30	1.00
7:S:91:ILE:HG12	7:S:143:ASN:OD1	1.61	1.00
1:A:163:LEU:HG	1:A:163:LEU:O	1.58	1.00
9:I:73:LYS:N	9:I:81:HIS:CD2	2.30	1.00
1:M:433:ARG:N	1:M:436:TRP:CZ2	2.30	1.00
1:M:670:ILE:HG22	1:M:748:ASN:HB3	1.43	1.00
1:M:771:VAL:HG23	1:M:809:SER:HA	1.42	1.00
1:M:806:ILE:HD11	1:M:814:LEU:CD2	1.90	1.00
1:M:879:LEU:CD1	1:M:960:PRO:HG3	1.91	1.00
9:U:73:LYS:N	9:U:81:HIS:CD2	2.30	1.00
1:A:48:GLN:HG3	1:A:50:PRO:CG	1.91	1.00
1:A:119:SER:H	1:A:120:SER:CB	1.75	1.00
4:D:45:THR:HG21	4:D:49:ILE:CD1	1.92	1.00
5:E:199:THR:H	5:E:200:SER:C	1.64	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:57:ASP:CB	1:M:58:PRO:CD	2.32	1.00
1:M:177:ALA:CB	1:M:178:ALA:C	2.30	1.00
2:N:219:ILE:HG22	2:N:220:ALA:N	1.77	1.00
1:A:120:SER:HB3	1:A:121:ASN:CA	1.91	0.99
2:B:703:GLY:O	2:B:704:TYR:HD1	1.45	0.99
1:A:646:GLU:N	1:A:648:CYS:HB3	1.75	0.99
2:B:1062:TYR:CE2	2:B:1069:LYS:HG2	1.97	0.99
1:M:178:ALA:C	1:M:180:PRO:CD	2.30	0.99
1:M:359:ILE:HD13	1:M:488:PHE:HD2	1.25	0.99
1:M:1397:ARG:HG3	1:M:1398:ALA:N	1.76	0.99
1:A:177:ALA:CB	1:A:178:ALA:C	2.30	0.99
1:A:879:LEU:CD1	1:A:960:PRO:HG3	1.91	0.99
4:D:132:LYS:CA	4:D:133:PHE:C	2.30	0.99
5:E:100:LYS:O	5:E:101:THR:CG2	2.10	0.99
7:G:93:THR:O	7:G:140:LYS:HG3	1.62	0.99
1:M:1276:SER:HA	1:M:1277:ILE:CG1	1.89	0.99
2:N:215:ALA:C	2:N:217:SER:CB	2.30	0.99
7:G:51:ASP:HA	7:G:55:ILE:CD1	1.91	0.99
1:M:374:ARG:HH11	1:M:374:ARG:CB	1.74	0.99
4:P:84:ARG:HH21	4:P:87:LYS:HE3	1.20	0.99
9:U:4:PHE:CE1	9:U:27:LEU:CD2	2.45	0.99
1:A:108:VAL:CG1	1:A:113:GLY:C	2.30	0.99
1:A:232:GLU:HG2	1:A:232:GLU:O	1.56	0.99
1:A:432:LEU:HA	1:A:436:TRP:HZ2	1.23	0.99
2:B:290:ASP:CB	2:B:292:ASN:CG	2.30	0.99
1:M:266:ASP:O	1:M:269:THR:HG23	1.61	0.99
4:P:85:PHE:CZ	4:P:115:ILE:HG12	1.95	0.99
7:S:10:LEU:HD23	7:S:31:LEU:CD1	1.92	0.99
1:A:81:GLY:CA	1:A:249:PRO:HG3	1.92	0.99
1:A:120:SER:HB3	1:A:121:ASN:C	1.80	0.99
1:A:161:PHE:CE2	1:A:165:ASN:ND2	2.31	0.99
1:A:428:GLY:O	1:A:430:ILE:HG23	1.63	0.99
2:B:87:PRO:HG3	2:B:157:ILE:HD12	1.43	0.99
4:D:85:PHE:CZ	4:D:115:ILE:CG1	2.46	0.99
2:N:703:GLY:O	2:N:704:TYR:HD1	1.44	0.99
7:S:93:THR:O	7:S:140:LYS:HG3	1.62	0.99
1:A:101:ILE:HD11	1:A:217:PHE:CZ	1.97	0.99
2:B:1095:ARG:HE	2:B:1115:GLY:HA3	1.26	0.99
5:E:198:GLU:HB2	5:E:199:THR:HA	1.44	0.99
1:M:161:PHE:CE2	1:M:165:ASN:ND2	2.31	0.99
1:M:808:ASN:HB2	1:M:813:GLY:O	1.62	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:288:CYS:HB3	2:N:297:LEU:HD21	1.45	0.99
7:S:146:LEU:CD1	7:S:164:MET:SD	2.50	0.99
1:A:83:PHE:CE2	2:B:1196:MET:CB	2.44	0.99
1:A:108:VAL:HG13	1:A:113:GLY:C	1.83	0.99
1:A:198:ASP:O	1:A:199:GLU:HB2	1.60	0.99
1:M:120:SER:HB3	1:M:121:ASN:CA	1.91	0.99
1:M:775:ILE:C	1:M:776:VAL:HG12	1.81	0.99
5:Q:100:LYS:O	5:Q:101:THR:CG2	2.10	0.99
9:U:79:HIS:O	9:U:80:GLN:HB2	1.55	0.99
2:B:307:ALA:HB1	2:B:310:ILE:CD1	1.93	0.99
7:G:52:SER:H	7:G:55:ILE:HD12	0.84	0.99
9:I:68:LEU:HD23	9:I:69:PRO:HD2	1.42	0.99
1:M:192:SER:HB2	1:M:202:LEU:HA	1.39	0.99
3:O:82:VAL:O	3:O:82:VAL:HG12	1.61	0.99
2:B:155:ILE:HD11	2:B:403:PHE:HE1	1.23	0.99
2:B:659:PRO:CB	2:B:661:GLN:HE21	1.76	0.99
2:B:1054:GLN:HB3	2:B:1056:ARG:HE	0.86	0.99
5:E:49:GLY:CA	5:E:50:ARG:CB	2.38	0.99
7:G:10:LEU:HD23	7:G:31:LEU:CD1	1.92	0.99
1:M:1191:GLN:HB3	1:M:1246:ILE:HG22	1.42	0.99
6:R:123:LEU:HD22	6:R:137:SER:HA	1.42	0.99
1:A:161:PHE:HE2	1:A:165:ASN:HD22	1.04	0.98
1:A:1397:ARG:CG	1:A:1398:ALA:H	1.74	0.98
4:D:19:PHE:HD1	7:G:81:ARG:HH11	1.09	0.98
9:I:4:PHE:CE1	9:I:27:LEU:CD2	2.45	0.98
2:N:307:ALA:HB1	2:N:310:ILE:CD1	1.93	0.98
4:P:132:LYS:CA	4:P:133:PHE:C	2.30	0.98
7:S:151:THR:HA	7:S:160:ALA:CB	1.92	0.98
1:A:1151:SER:HA	1:A:1152:ALA:CB	1.93	0.98
1:A:1331:THR:HG23	1:A:1332:ARG:HG3	1.45	0.98
2:B:288:CYS:HB3	2:B:297:LEU:HD21	1.45	0.98
6:F:96:PRO:HG3	7:G:19:PHE:HB2	1.42	0.98
7:G:91:ILE:HG12	7:G:143:ASN:OD1	1.61	0.98
7:G:146:LEU:CD1	7:G:164:MET:SD	2.50	0.98
10:J:2:ILE:H	10:J:56:ILE:HD11	1.27	0.98
11:K:76:THR:HA	11:K:77:VAL:HB	1.45	0.98
2:N:659:PRO:CB	2:N:661:GLN:HE21	1.76	0.98
1:A:50:PRO:O	1:A:51:ARG:CG	2.10	0.98
1:A:192:SER:HB2	1:A:202:LEU:HA	1.44	0.98
1:A:645:PRO:HA	1:A:648:CYS:HB3	1.42	0.98
1:A:775:ILE:C	1:A:776:VAL:HG12	1.81	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1117:PRO:O	1:A:1118:SER:O	1.81	0.98
2:B:215:ALA:C	2:B:217:SER:CB	2.30	0.98
1:M:62:THR:HG21	1:M:75:THR:HG21	1.00	0.98
2:N:330:THR:O	2:N:334:ARG:HB2	1.61	0.98
4:P:80:ILE:CD1	4:P:130:LEU:HD11	1.93	0.98
1:A:573:LYS:CB	1:A:574:PRO:HD2	1.91	0.98
1:A:1290:MET:HE1	1:A:1312:LEU:CD2	1.92	0.98
2:B:291:PRO:CA	2:B:292:ASN:CB	2.40	0.98
1:M:428:GLY:O	1:M:430:ILE:HG23	1.63	0.98
1:M:1276:SER:CB	1:M:1277:ILE:CG1	2.41	0.98
2:N:907:ILE:CD1	2:N:924:ARG:NH2	2.26	0.98
2:N:1095:ARG:HE	2:N:1115:GLY:HA3	1.26	0.98
7:S:51:ASP:HA	7:S:55:ILE:HD11	1.03	0.98
1:A:381:THR:OG1	1:A:382:TYR:O	1.82	0.98
1:A:1192:SER:HA	1:A:1245:ILE:O	1.61	0.98
1:M:24:LEU:HB2	2:N:1199:ASN:C	1.82	0.98
4:P:85:PHE:CZ	4:P:115:ILE:CG1	2.46	0.98
2:B:219:ILE:HG22	2:B:220:ALA:N	1.77	0.98
8:H:72:ALA:HB1	8:H:123:LEU:O	1.64	0.98
1:M:101:ILE:HD11	1:M:217:PHE:CE2	1.98	0.98
1:M:1173:VAL:CG1	1:M:1177:PHE:CE2	2.38	0.98
8:T:70:GLU:OE1	8:T:70:GLU:HA	1.62	0.98
1:A:42:THR:HG21	1:A:55:LEU:HB3	1.01	0.98
1:A:266:ASP:O	1:A:269:THR:HG23	1.61	0.98
2:B:907:ILE:CD1	2:B:924:ARG:CZ	2.42	0.98
4:D:61:TYR:HE1	7:G:103:ASN:O	1.44	0.98
11:K:118:VAL:HG22	11:K:119:GLU:H	0.83	0.98
2:N:291:PRO:HA	2:N:292:ASN:HB2	1.16	0.98
2:N:993:GLN:N	2:N:994:GLY:HA2	1.74	0.98
11:W:118:VAL:HG22	11:W:119:GLU:H	0.83	0.98
1:A:1397:ARG:HG3	1:A:1398:ALA:N	1.78	0.98
1:M:230:LEU:HD13	1:M:237:PRO:CG	1.94	0.98
2:N:387:PHE:CD2	2:N:503:THR:CG2	2.46	0.98
4:P:19:PHE:HD1	7:S:81:ARG:HH11	1.09	0.98
1:A:62:THR:HG21	1:A:75:THR:HG21	1.00	0.98
1:A:708:LEU:CB	1:A:709:LYS:CA	2.30	0.98
2:B:102:GLN:HG2	2:B:105:ARG:CZ	1.94	0.98
2:B:907:ILE:CD1	2:B:924:ARG:NH2	2.26	0.98
7:G:151:THR:HA	7:G:160:ALA:CB	1.93	0.98
1:M:81:GLY:CA	1:M:249:PRO:HG3	1.92	0.98
2:N:292:ASN:CA	2:N:293:ASP:CB	2.30	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:80:TRP:HZ3	7:S:107:LEU:CB	1.76	0.98
1:A:51:ARG:O	1:A:52:VAL:HB	1.61	0.97
1:A:119:SER:N	1:A:120:SER:HA	1.75	0.97
1:A:1140:GLN:O	1:A:1280:ARG:HB3	1.64	0.97
1:A:1395:ILE:CD1	1:A:1397:ARG:CB	2.41	0.97
6:F:123:LEU:HD22	6:F:137:SER:HA	1.42	0.97
1:M:21:PHE:O	1:M:1422:GLY:HA2	1.63	0.97
1:M:42:THR:HG21	1:M:55:LEU:HB3	1.01	0.97
7:S:52:SER:H	7:S:55:ILE:HD12	0.84	0.97
1:A:419:ILE:HG21	1:A:425:LYS:CD	1.93	0.97
1:A:429:ASP:C	1:A:430:ILE:HD13	1.85	0.97
1:A:1465:VAL:HG12	1:A:1466:PRO:HB3	1.45	0.97
3:C:140:SER:O	3:C:141:ARG:HG3	1.64	0.97
4:D:27:VAL:HG23	4:D:95:THR:CG2	1.94	0.97
1:M:193:TRP:CH2	1:M:206:ARG:HB3	1.98	0.97
11:W:76:THR:HA	11:W:77:VAL:HB	1.45	0.97
1:A:1395:ILE:HD11	1:A:1397:ARG:HB3	1.37	0.97
7:G:80:TRP:HZ3	7:G:107:LEU:CB	1.76	0.97
7:G:94:THR:CG2	8:T:2:SER:HA	1.94	0.97
2:N:200:GLN:NE2	2:N:465:VAL:CG2	2.27	0.97
2:N:291:PRO:HA	2:N:292:ASN:HB3	1.46	0.97
4:P:32:ILE:HD11	4:P:74:THR:HG21	1.45	0.97
5:Q:198:GLU:HB2	5:Q:199:THR:HA	1.44	0.97
8:T:72:ALA:HB1	8:T:123:LEU:O	1.63	0.97
1:A:433:ARG:N	1:A:436:TRP:CZ2	2.30	0.97
1:A:517:ILE:CG1	1:A:640:TRP:HE1	1.77	0.97
2:B:292:ASN:CA	2:B:293:ASP:CB	2.30	0.97
2:B:329:VAL:HA	2:B:330:THR:HG23	1.45	0.97
1:M:1146:LEU:HD12	1:M:1274:LEU:HA	1.45	0.97
1:M:1276:SER:HA	1:M:1277:ILE:HG23	0.98	0.97
4:P:45:THR:HG21	4:P:49:ILE:HD11	0.98	0.97
9:U:78:CYS:O	9:U:79:HIS:HB3	1.65	0.97
1:A:195:ARG:CB	1:A:196:GLY:HA2	1.95	0.97
4:D:45:THR:CG2	4:D:49:ILE:HD11	1.94	0.97
1:M:177:ALA:HB3	1:M:179:GLN:CG	1.93	0.97
1:M:263:ARG:HG3	1:M:263:ARG:NH2	1.73	0.97
1:M:775:ILE:C	1:M:775:ILE:CD1	2.30	0.97
1:M:1379:ASP:O	1:M:1383:SER:HB3	1.65	0.97
1:M:1496:PHE:HZ	4:P:75:TYR:CZ	1.82	0.97
9:U:20:LYS:CD	9:U:21:VAL:H	1.76	0.97
1:A:1101:VAL:HG13	1:A:1102:PRO:N	1.74	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:122:PHE:HB3	7:G:131:TYR:CE1	2.00	0.97
8:H:63:LEU:C	8:H:63:LEU:CD2	2.32	0.97
9:I:111:GLU:HG2	9:I:112:GLU:N	1.77	0.97
1:M:267:ASP:H	1:M:268:LEU:C	1.67	0.97
1:M:1164:THR:O	1:M:1165:VAL:HG23	1.64	0.97
1:M:1397:ARG:CG	1:M:1398:ALA:H	1.77	0.97
9:U:73:LYS:CG	9:U:81:HIS:CD2	2.46	0.97
1:A:155:SER:HB3	1:A:169:ASN:CB	1.95	0.97
1:A:1489:SER:HB3	1:A:1490:PRO:HD3	0.98	0.97
7:G:120:MET:CE	7:G:138:ILE:HD12	1.94	0.97
1:M:95:ILE:CD1	1:M:187:LEU:HD22	1.94	0.97
1:M:120:SER:OG	1:M:121:ASN:HB2	1.62	0.97
1:M:254:PRO:HG2	1:M:266:ASP:CG	1.83	0.97
1:M:381:THR:OG1	1:M:382:TYR:O	1.82	0.97
1:M:708:LEU:HB3	1:M:709:LYS:C	1.85	0.97
1:M:1117:PRO:O	1:M:1118:SER:O	1.81	0.97
1:A:267:ASP:H	1:A:268:LEU:C	1.67	0.97
4:D:80:ILE:CD1	4:D:130:LEU:HD11	1.94	0.97
1:M:517:ILE:CG1	1:M:640:TRP:HE1	1.77	0.97
2:N:87:PRO:HG3	2:N:157:ILE:HD12	1.43	0.97
2:N:292:ASN:HA	2:N:293:ASP:HB2	0.97	0.97
7:S:8:LEU:HD11	7:S:79:LEU:HD11	1.42	0.97
1:A:1119:LEU:CB	1:A:1314:THR:HG21	1.95	0.97
1:A:1379:ASP:O	1:A:1383:SER:HB3	1.64	0.97
8:H:62:ASN:HB3	8:H:63:LEU:HB3	1.45	0.97
9:I:73:LYS:CG	9:I:81:HIS:CD2	2.47	0.97
7:S:59:LYS:HB3	7:S:60:GLY:HA2	1.37	0.97
10:V:2:ILE:H	10:V:56:ILE:HD11	1.27	0.97
1:A:1194:TRP:CH2	1:A:1262:GLU:HB3	2.00	0.97
1:A:1276:SER:HA	1:A:1277:ILE:HG23	0.99	0.97
1:M:195:ARG:HG3	1:M:196:GLY:CA	1.94	0.97
1:M:271:LYS:HE2	1:M:328:LEU:CD1	1.94	0.97
2:N:839:LEU:HD13	2:N:840:PHE:HE1	1.27	0.97
4:P:45:THR:CG2	4:P:49:ILE:HD11	1.94	0.97
7:S:120:MET:CE	7:S:138:ILE:HD12	1.94	0.97
1:A:123:LYS:O	1:A:127:THR:HG23	1.64	0.96
1:A:513:VAL:CG2	1:A:514:PRO:HD3	1.94	0.96
1:A:1164:THR:O	1:A:1165:VAL:HG23	1.65	0.96
1:M:380:LEU:HD12	1:M:442:ILE:HD13	1.44	0.96
1:M:419:ILE:HG21	1:M:425:LYS:CD	1.93	0.96
7:S:80:TRP:CZ3	7:S:107:LEU:HB3	1.99	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:271:LYS:HE2	1:A:328:LEU:CD1	1.94	0.96
1:A:1191:GLN:O	1:A:1246:ILE:HG23	1.65	0.96
1:A:1392:ARG:O	1:A:1393:HIS:CG	2.18	0.96
2:B:200:GLN:NE2	2:B:465:VAL:CG2	2.27	0.96
7:G:164:MET:HE1	7:G:170:GLY:HA2	1.47	0.96
12:L:55:LYS:HB2	12:L:56:ARG:HA	1.47	0.96
1:M:792:HIS:HB3	1:M:817:GLN:HE21	1.30	0.96
1:M:1403:LEU:HD22	1:M:1432:GLU:HG2	1.44	0.96
2:N:102:GLN:HG2	2:N:105:ARG:CZ	1.94	0.96
1:A:42:THR:CG2	1:A:55:LEU:CB	2.42	0.96
1:A:201:ASP:HB3	1:A:206:ARG:HH11	1.14	0.96
1:A:230:LEU:HD13	1:A:237:PRO:CG	1.94	0.96
1:A:670:ILE:HG22	1:A:748:ASN:HB3	1.43	0.96
7:G:80:TRP:CZ3	7:G:107:LEU:CB	2.49	0.96
1:M:95:ILE:HG13	1:M:314:ILE:CD1	1.95	0.96
1:M:155:SER:HA	1:M:169:ASN:HA	1.47	0.96
2:N:907:ILE:CD1	2:N:924:ARG:CZ	2.42	0.96
1:A:166:PRO:HB2	1:A:168:ALA:CB	1.95	0.96
1:A:1395:ILE:HD11	1:A:1397:ARG:CD	1.94	0.96
2:B:263:ARG:HB3	2:B:322:LYS:HD2	1.46	0.96
7:G:80:TRP:CZ3	7:G:107:LEU:HB3	1.99	0.96
1:M:42:THR:CG2	1:M:55:LEU:CB	2.42	0.96
1:M:513:VAL:CG2	1:M:514:PRO:HD3	1.94	0.96
7:S:122:PHE:HB3	7:S:131:TYR:CE1	2.00	0.96
1:A:1282:VAL:CG1	1:A:1285:ILE:CD1	2.42	0.96
3:C:82:VAL:O	3:C:82:VAL:HG12	1.61	0.96
1:M:1091:GLY:HA3	1:M:1092:VAL:HG12	0.96	0.96
2:N:263:ARG:HD3	2:N:323:ARG:O	1.66	0.96
1:A:517:ILE:CG1	1:A:640:TRP:NE1	2.28	0.96
1:A:775:ILE:C	1:A:775:ILE:CD1	2.30	0.96
7:G:8:LEU:HD11	7:G:79:LEU:HD11	1.42	0.96
7:G:47:ILE:HD12	7:G:78:VAL:HG12	1.46	0.96
1:M:123:LYS:O	1:M:127:THR:HG23	1.64	0.96
1:M:1191:GLN:O	1:M:1246:ILE:HG23	1.65	0.96
1:M:1331:THR:HG23	1:M:1332:ARG:HG3	1.45	0.96
1:M:1395:ILE:HD11	1:M:1397:ARG:CD	1.96	0.96
1:M:1498:GLY:HA2	1:M:1500:PRO:HD3	1.48	0.96
4:P:27:VAL:HG23	4:P:95:THR:CG2	1.94	0.96
1:A:708:LEU:HB3	1:A:709:LYS:C	1.85	0.96
1:A:1066:MET:HE1	1:A:1442:MET:HA	1.47	0.96
1:A:1465:VAL:CG1	1:A:1466:PRO:HA	1.93	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:155:SER:HB3	1:M:169:ASN:CB	1.95	0.96
1:M:255:SER:O	1:M:256:ILE:HB	1.63	0.96
1:M:1195:LEU:HD11	1:M:1242:ARG:HD3	0.97	0.96
7:S:164:MET:HE1	7:S:170:GLY:HA2	1.48	0.96
1:A:94:HIS:O	1:A:98:LEU:HG	1.66	0.96
1:A:770:CYS:O	1:A:771:VAL:HG23	1.66	0.96
7:G:10:LEU:HD22	7:G:35:VAL:HG23	1.48	0.96
1:M:154:LEU:H	1:M:173:GLY:C	1.69	0.96
1:M:1119:LEU:CB	1:M:1314:THR:HG21	1.95	0.96
8:T:63:LEU:C	8:T:63:LEU:CD2	2.32	0.96
1:A:425:LYS:HZ1	1:A:430:ILE:HG13	1.20	0.96
1:A:1162:GLN:CA	1:A:1162:GLN:HE21	1.79	0.96
4:D:32:ILE:HD11	4:D:74:THR:HG21	1.45	0.96
4:D:57:LYS:O	4:D:61:TYR:HD2	1.49	0.96
4:D:99:GLU:CA	4:D:124:LEU:CD2	2.44	0.96
1:M:154:LEU:CA	1:M:173:GLY:HA2	1.95	0.96
1:M:205:LYS:HG2	1:M:206:ARG:H	0.79	0.96
1:M:254:PRO:HB3	2:N:1103:LEU:HD21	1.47	0.96
1:M:314:ILE:HG22	1:M:314:ILE:O	1.65	0.96
1:M:517:ILE:CG1	1:M:640:TRP:NE1	2.28	0.96
7:S:10:LEU:HD22	7:S:35:VAL:HG23	1.48	0.96
1:A:1191:GLN:CB	1:A:1246:ILE:HG23	1.95	0.96
1:M:192:SER:HB2	1:M:202:LEU:CA	1.96	0.96
1:M:242:ILE:HD13	1:M:245:LEU:CD1	1.96	0.96
1:M:429:ASP:C	1:M:430:ILE:HD13	1.85	0.96
1:M:770:CYS:O	1:M:771:VAL:HG23	1.66	0.96
2:N:654:ARG:HB3	2:N:655:TYR:HA	0.98	0.96
2:N:823:ASN:HB3	2:N:829:ILE:HG23	1.43	0.96
1:A:255:SER:O	1:A:256:ILE:HB	1.65	0.95
2:B:290:ASP:HA	2:B:292:ASN:HB2	0.97	0.95
8:H:70:GLU:OE1	8:H:70:GLU:HA	1.62	0.95
1:M:124:PHE:O	1:M:128:GLN:HG3	1.66	0.95
1:M:781:ILE:CG1	1:M:821:PHE:CD2	2.49	0.95
2:N:394:LEU:HG	2:N:531:VAL:HG11	1.48	0.95
2:B:972:ARG:CZ	2:B:1080:TYR:HE1	1.79	0.95
2:B:1205:PHE:CE2	2:B:1210:LYS:HB2	2.02	0.95
3:C:125:SER:O	3:C:126:SER:HB2	1.62	0.95
8:H:60:THR:HG23	8:H:61:SER:N	1.80	0.95
1:M:95:ILE:HD11	1:M:187:LEU:HD13	1.48	0.95
1:M:111:ASN:OD1	1:M:216:ILE:HG12	1.64	0.95
1:M:1151:SER:HA	1:M:1152:ALA:CB	1.93	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1205:PHE:CE2	2:N:1210:LYS:HB2	2.02	0.95
3:O:140:SER:O	3:O:141:ARG:HG3	1.64	0.95
1:A:128:GLN:HG2	1:A:139:ALA:CB	1.95	0.95
1:A:1070:LEU:HD12	1:A:1071:ALA:N	1.81	0.95
2:B:839:LEU:HD13	2:B:840:PHE:HE1	1.27	0.95
3:C:130:LEU:HD23	3:C:132:HIS:HD2	1.30	0.95
1:M:207:LEU:H	1:M:207:LEU:HD22	1.27	0.95
8:T:62:ASN:HB3	8:T:63:LEU:HB3	1.45	0.95
1:A:773:GLN:NE2	1:A:780:ARG:HB2	1.81	0.95
2:B:200:GLN:NE2	2:B:465:VAL:HG23	1.81	0.95
2:B:264:SER:CB	2:B:322:LYS:HZ2	1.79	0.95
2:B:654:ARG:HB3	2:B:655:TYR:HA	0.97	0.95
4:D:45:THR:HG21	4:D:49:ILE:HD11	0.98	0.95
1:M:398:VAL:CG1	1:M:421:LEU:HD11	1.96	0.95
1:M:1089:TYR:HA	1:M:1090:ALA:HB3	0.96	0.95
3:O:125:SER:O	3:O:126:SER:HB2	1.62	0.95
1:A:94:HIS:C	1:A:98:LEU:HG	1.87	0.95
1:A:124:PHE:O	1:A:128:GLN:HG3	1.66	0.95
1:A:1066:MET:HE1	1:A:1442:MET:CA	1.96	0.95
1:A:1089:TYR:HA	1:A:1090:ALA:HB3	0.96	0.95
5:E:49:GLY:HA3	5:E:50:ARG:CB	1.86	0.95
1:M:208:LEU:H	1:M:208:LEU:HD12	0.81	0.95
1:M:236:ARG:H	1:M:239:TRP:HE3	1.15	0.95
1:M:1070:LEU:HD12	1:M:1071:ALA:N	1.81	0.95
7:S:145:ARG:HG3	7:S:172:LEU:HD21	0.97	0.95
8:T:60:THR:HG23	8:T:61:SER:N	1.80	0.95
1:A:208:LEU:HD22	1:A:209:SER:H	1.30	0.95
1:A:1162:GLN:HE21	1:A:1162:GLN:C	1.70	0.95
1:M:773:GLN:NE2	1:M:780:ARG:HB2	1.82	0.95
1:M:792:HIS:CB	1:M:817:GLN:NE2	2.29	0.95
1:M:1191:GLN:CB	1:M:1246:ILE:HG23	1.95	0.95
1:M:1276:SER:CA	1:M:1277:ILE:CG2	2.30	0.95
3:O:253:GLN:HE22	11:W:98:GLU:HG3	1.32	0.95
4:P:129:THR:O	4:P:133:PHE:HB2	1.66	0.95
7:S:80:TRP:CZ3	7:S:107:LEU:CB	2.49	0.95
1:A:77:ALA:HB2	2:B:1105:ARG:HH22	1.30	0.95
4:D:16:GLY:O	4:D:20:GLU:HG3	1.67	0.95
1:M:1194:TRP:CH2	1:M:1262:GLU:HB3	2.00	0.95
2:N:264:SER:HB2	2:N:322:LYS:HZ1	1.26	0.95
9:U:20:LYS:HD3	9:U:21:VAL:HG23	1.46	0.95
1:A:106:GLU:OE1	1:A:144:CYS:HB3	1.65	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:32:ILE:HD11	4:D:74:THR:CG2	1.94	0.95
1:M:15:ARG:NH2	7:S:64:PRO:CG	2.30	0.95
1:M:1098:THR:O	1:M:1099:LEU:HB2	1.65	0.95
1:M:1492:VAL:CG1	1:M:1496:PHE:CE2	2.43	0.95
1:A:254:PRO:HB3	2:B:1103:LEU:HD21	1.49	0.95
1:A:341:ARG:HH22	2:B:1190:LEU:HD13	1.31	0.95
1:A:646:GLU:CA	1:A:648:CYS:N	2.30	0.95
1:A:775:ILE:C	1:A:775:ILE:HD13	1.85	0.95
2:B:291:PRO:HA	2:B:292:ASN:HB3	1.46	0.95
5:E:199:THR:H	5:E:200:SER:CA	1.80	0.95
1:M:30:ARG:HE	1:M:244:VAL:HG22	1.30	0.95
1:M:128:GLN:HG2	1:M:139:ALA:CB	1.95	0.95
1:M:202:LEU:HB2	1:M:203:PRO:HD2	1.48	0.95
1:M:267:ASP:N	1:M:268:LEU:CB	2.30	0.95
1:M:646:GLU:CA	1:M:648:CYS:N	2.30	0.95
1:M:1162:GLN:CA	1:M:1162:GLN:HE21	1.79	0.95
2:N:972:ARG:CZ	2:N:1080:TYR:HE1	1.79	0.95
2:N:1054:GLN:CB	2:N:1056:ARG:HE	1.80	0.95
4:P:57:LYS:O	4:P:61:TYR:HD2	1.49	0.95
4:P:99:GLU:CA	4:P:124:LEU:CD2	2.44	0.95
7:S:47:ILE:HD12	7:S:78:VAL:HG12	1.45	0.95
7:S:127:ASN:HB2	7:S:128:PRO:HD2	1.48	0.95
12:X:55:LYS:HB2	12:X:56:ARG:HA	1.47	0.95
1:A:1101:VAL:CG1	1:A:1102:PRO:N	2.30	0.94
2:B:243:LEU:O	2:B:244:MET:HG2	1.67	0.94
2:B:292:ASN:HA	2:B:293:ASP:HB2	0.97	0.94
1:M:109:CYS:CB	1:M:178:ALA:HB2	1.95	0.94
1:M:208:LEU:HD13	1:M:209:SER:H	1.31	0.94
1:M:775:ILE:C	1:M:775:ILE:HD13	1.85	0.94
1:M:1434:ILE:O	2:N:1141:PHE:CZ	2.20	0.94
2:N:290:ASP:HA	2:N:292:ASN:HB2	0.97	0.94
1:A:17:GLU:OE1	2:B:1207:LYS:HA	1.67	0.94
1:A:254:PRO:HG2	1:A:266:ASP:CG	1.86	0.94
9:I:25:LEU:CB	9:I:38:ALA:CB	2.45	0.94
1:M:40:PRO:CB	1:M:276:ILE:CG2	2.46	0.94
1:M:166:PRO:HB2	1:M:168:ALA:CB	1.95	0.94
2:B:323:ARG:HB3	2:B:324:GLY:HA2	0.96	0.94
7:G:145:ARG:HG3	7:G:172:LEU:HD21	0.97	0.94
2:N:216:PRO:HB2	2:N:217:SER:HA	1.49	0.94
3:O:130:LEU:HD23	3:O:132:HIS:HD2	1.30	0.94
4:P:32:ILE:HD11	4:P:74:THR:CG2	1.94	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:30:ARG:HE	1:A:244:VAL:HG22	1.30	0.94
1:A:42:THR:CG2	1:A:55:LEU:HB3	1.97	0.94
1:A:242:ILE:HD13	1:A:245:LEU:CD1	1.96	0.94
1:A:398:VAL:CG1	1:A:421:LEU:HD11	1.96	0.94
1:A:1165:VAL:CG1	1:A:1166:ILE:N	2.30	0.94
1:A:1195:LEU:HD11	1:A:1242:ARG:HD3	0.97	0.94
1:M:1162:GLN:HE21	1:M:1162:GLN:C	1.70	0.94
1:A:15:ARG:HD3	1:A:1438:GLN:HE21	1.32	0.94
1:A:81:GLY:CA	1:A:249:PRO:CG	2.45	0.94
1:A:1290:MET:CE	1:A:1312:LEU:HD23	1.94	0.94
4:D:10:ALA:HB1	7:G:85:GLY:HA3	1.49	0.94
7:G:127:ASN:HB2	7:G:128:PRO:HD2	1.48	0.94
7:G:146:LEU:HG	7:G:164:MET:SD	2.08	0.94
1:M:10:SER:HB3	2:N:1168:TYR:OH	1.67	0.94
1:M:1119:LEU:HB3	1:M:1314:THR:HG21	1.48	0.94
1:M:1395:ILE:CD1	1:M:1397:ARG:CB	2.44	0.94
2:B:229:LEU:CA	2:B:230:GLU:CB	2.30	0.94
9:I:67:THR:HG23	9:I:67:THR:O	1.67	0.94
1:M:17:GLU:OE1	2:N:1207:LYS:HA	1.67	0.94
1:M:117:ILE:HG21	1:M:125:ASN:CB	1.97	0.94
1:A:90:LYS:NZ	1:A:282:VAL:CG1	2.31	0.94
7:G:127:ASN:HB3	7:G:128:PRO:HD3	1.47	0.94
1:M:106:GLU:O	1:M:116:LYS:HD2	1.66	0.94
3:O:80:PRO:HB2	3:O:81:PRO:CD	1.98	0.94
1:A:1098:THR:O	1:A:1099:LEU:HB2	1.65	0.94
1:A:1119:LEU:HB3	1:A:1314:THR:HG21	1.47	0.94
1:A:1146:LEU:HD12	1:A:1274:LEU:HA	1.49	0.94
5:E:58:SER:CB	5:E:75:GLU:HA	1.97	0.94
9:I:6:TYR:O	9:I:14:LEU:HD21	1.67	0.94
1:M:15:ARG:HH11	1:M:1438:GLN:NE2	1.66	0.94
1:M:94:HIS:HD2	1:M:97:PHE:HB2	1.32	0.94
1:M:378:LYS:HA	1:M:441:HIS:CD2	2.02	0.94
2:N:212:LYS:CG	2:N:213:LYS:N	2.26	0.94
2:N:1206:THR:HG23	2:N:1209:HIS:HB2	1.48	0.94
3:O:130:LEU:N	3:O:130:LEU:CD1	2.30	0.94
4:P:10:ALA:HB1	7:S:85:GLY:HA3	1.49	0.94
5:Q:58:SER:CB	5:Q:75:GLU:HA	1.97	0.94
7:S:127:ASN:HB3	7:S:128:PRO:HD3	1.47	0.94
1:A:155:SER:HA	1:A:169:ASN:HA	1.47	0.94
1:A:267:ASP:N	1:A:268:LEU:CB	2.30	0.94
1:A:1150:THR:CB	9:I:48:LEU:CD2	2.45	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1403:LEU:HD22	1:A:1432:GLU:HG2	1.44	0.94
8:H:80:VAL:HA	8:H:95:VAL:HG22	1.50	0.94
1:M:26:PRO:HD2	1:M:239:TRP:CD1	2.03	0.94
1:A:1094:SER:O	1:A:1095:LYS:HG3	1.68	0.94
2:B:1080:TYR:H	2:B:1080:TYR:HD2	1.14	0.94
2:B:1206:THR:HG23	2:B:1209:HIS:HB2	1.48	0.94
1:M:95:ILE:CG1	1:M:314:ILE:HD13	1.98	0.94
1:M:101:ILE:HD13	1:M:240:MET:CE	1.96	0.94
1:M:102:LYS:HG2	1:M:189:LEU:HD21	0.94	0.94
5:Q:49:GLY:CA	5:Q:50:ARG:CB	2.38	0.94
1:A:15:ARG:HH11	1:A:1438:GLN:NE2	1.66	0.93
1:A:30:ARG:HE	1:A:244:VAL:CG2	1.81	0.93
1:A:341:ARG:NH2	2:B:1190:LEU:HD13	1.83	0.93
1:A:721:GLU:OE2	1:A:780:ARG:HD3	1.69	0.93
1:M:30:ARG:HE	1:M:244:VAL:CG2	1.81	0.93
1:M:40:PRO:CG	1:M:276:ILE:CG2	2.36	0.93
1:M:208:LEU:HD23	1:M:213:VAL:CG2	1.96	0.93
2:N:200:GLN:NE2	2:N:465:VAL:HG23	1.81	0.93
2:N:246:ARG:HG2	2:N:247:ASN:N	1.81	0.93
2:N:291:PRO:CA	2:N:292:ASN:CB	2.40	0.93
5:Q:199:THR:H	5:Q:200:SER:CA	1.80	0.93
7:S:146:LEU:HG	7:S:164:MET:SD	2.08	0.93
1:A:775:ILE:HG13	1:A:1089:TYR:CD2	2.03	0.93
1:A:1150:THR:HG22	9:I:48:LEU:CD2	1.94	0.93
1:A:1485:PRO:HD2	4:D:43:ARG:NH1	1.81	0.93
2:N:562:ASN:HD21	2:N:608:LYS:HG2	1.32	0.93
2:N:659:PRO:HA	2:N:661:GLN:HG2	1.50	0.93
4:P:16:GLY:O	4:P:20:GLU:HG3	1.67	0.93
1:A:646:GLU:HA	1:A:647:ILE:C	1.86	0.93
2:B:214:ALA:HB1	2:B:215:ALA:HB2	1.49	0.93
2:B:216:PRO:HB2	2:B:217:SER:HA	1.49	0.93
9:I:78:CYS:O	9:I:79:HIS:HB3	1.65	0.93
1:M:127:THR:HA	1:M:130:TYR:HD2	1.32	0.93
2:N:1080:TYR:HD2	2:N:1080:TYR:H	1.14	0.93
1:A:177:ALA:CB	1:A:178:ALA:CB	2.37	0.93
1:M:15:ARG:HH21	7:S:64:PRO:HG2	0.99	0.93
1:M:90:LYS:NZ	1:M:282:VAL:CG1	2.31	0.93
1:M:1412:VAL:CG1	1:M:1413:GLU:H	1.80	0.93
3:O:9:ILE:HD11	11:W:111:LYS:HG3	1.50	0.93
1:A:263:ARG:HG3	1:A:263:ARG:NH2	1.73	0.93
1:A:946:CYS:HB2	1:A:949:ILE:HD11	1.48	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1478:LEU:HD23	4:D:45:THR:O	1.68	0.93
5:E:199:THR:H	5:E:201:GLY:N	1.66	0.93
1:M:81:GLY:CA	1:M:249:PRO:CG	2.45	0.93
1:M:946:CYS:HB2	1:M:949:ILE:HD11	1.48	0.93
1:A:40:PRO:CB	1:A:276:ILE:CG2	2.46	0.93
1:A:154:LEU:HA	1:A:173:GLY:HA2	1.49	0.93
1:A:1173:VAL:CG1	1:A:1177:PHE:CE2	2.38	0.93
2:B:246:ARG:HG2	2:B:247:ASN:N	1.81	0.93
2:B:254:THR:HG22	2:B:302:PRO:HB2	0.94	0.93
1:M:708:LEU:CB	1:M:709:LYS:CA	2.30	0.93
2:B:705:GLU:OE1	2:B:707:LYS:HE2	1.69	0.93
1:M:23:ILE:HG13	1:M:1419:ALA:O	1.69	0.93
1:M:341:ARG:HH22	2:N:1190:LEU:HD13	1.32	0.93
1:M:341:ARG:NH2	2:N:1190:LEU:HD13	1.84	0.93
1:M:781:ILE:HG12	1:M:821:PHE:HD2	1.34	0.93
2:N:654:ARG:HA	2:N:655:TYR:O	1.69	0.93
5:Q:101:THR:HG21	5:Q:126:THR:HG22	0.93	0.93
1:A:26:PRO:HD2	1:A:239:TRP:CD1	2.03	0.93
1:A:381:THR:CA	1:A:382:TYR:HB2	1.97	0.93
2:B:219:ILE:CG2	2:B:220:ALA:H	1.82	0.93
4:D:129:THR:O	4:D:133:PHE:HB2	1.66	0.93
1:M:110:TRP:CZ2	1:M:193:TRP:NE1	2.32	0.93
2:N:290:ASP:CB	2:N:292:ASN:CB	2.47	0.93
5:Q:199:THR:H	5:Q:201:GLY:N	1.66	0.93
2:B:212:LYS:CG	2:B:213:LYS:N	2.30	0.93
2:B:659:PRO:CA	2:B:661:GLN:HG2	1.99	0.93
3:C:253:GLN:HE22	11:K:98:GLU:HG3	1.32	0.93
1:M:15:ARG:HD3	1:M:1438:GLN:HE21	1.32	0.93
1:M:21:PHE:CZ	1:M:1403:LEU:HD12	2.03	0.93
1:M:1496:PHE:CZ	4:P:75:TYR:CZ	2.56	0.93
1:A:10:SER:HB3	2:B:1168:TYR:OH	1.68	0.93
1:A:314:ILE:O	1:A:314:ILE:HG22	1.66	0.93
1:A:1081:GLN:HE22	1:A:1368:TYR:HE2	1.14	0.93
3:C:80:PRO:CB	3:C:81:PRO:HD3	1.98	0.93
1:M:106:GLU:HG3	1:M:144:CYS:CB	1.99	0.93
7:S:151:THR:HG22	7:S:160:ALA:CB	1.99	0.93
8:T:80:VAL:HA	8:T:95:VAL:HG22	1.50	0.93
9:U:73:LYS:O	9:U:74:GLU:HB2	1.68	0.93
1:A:93:PHE:HB3	1:A:98:LEU:HD11	1.49	0.92
1:A:236:ARG:H	1:A:239:TRP:HE3	1.15	0.92
1:M:72:CYS:HB3	2:N:1161:ALA:O	1.69	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:192:SER:CB	1:M:202:LEU:CA	2.47	0.92
1:M:646:GLU:HA	1:M:647:ILE:C	1.86	0.92
2:N:243:LEU:O	2:N:244:MET:HG2	1.67	0.92
2:N:488:ILE:HG22	2:N:489:GLY:CA	1.99	0.92
2:N:659:PRO:CA	2:N:661:GLN:HG2	1.99	0.92
2:N:705:GLU:OE1	2:N:707:LYS:HE2	1.69	0.92
1:A:117:ILE:HG21	1:A:125:ASN:CB	1.97	0.92
2:B:323:ARG:CB	2:B:324:GLY:HA2	1.93	0.92
1:M:119:SER:N	1:M:120:SER:CA	2.30	0.92
1:M:640:TRP:O	1:M:644:GLY:HA2	1.68	0.92
2:N:488:ILE:CD1	2:N:490:ARG:HG2	1.99	0.92
2:N:659:PRO:CB	2:N:661:GLN:HG2	2.00	0.92
7:S:14:LEU:HD22	7:S:27:LEU:HD21	1.48	0.92
1:A:50:PRO:C	1:A:51:ARG:HG2	1.89	0.92
2:B:488:ILE:HG22	2:B:489:GLY:CA	1.99	0.92
3:C:80:PRO:HB2	3:C:81:PRO:CD	1.98	0.92
3:C:130:LEU:N	3:C:130:LEU:CD1	2.30	0.92
1:M:101:ILE:HD13	1:M:240:MET:SD	2.10	0.92
1:M:846:ARG:HH11	1:M:1391:THR:HA	0.96	0.92
1:M:1165:VAL:CG1	1:M:1166:ILE:N	2.30	0.92
2:N:488:ILE:HB	2:N:489:GLY:HA3	1.45	0.92
2:N:659:PRO:HB3	2:N:661:GLN:CG	1.99	0.92
7:S:46:ILE:CA	7:S:79:LEU:CD2	2.47	0.92
10:V:42:ARG:HH11	10:V:42:ARG:HG3	1.32	0.92
1:A:419:ILE:HG22	1:A:425:LYS:HD2	1.51	0.92
2:B:562:ASN:HD21	2:B:608:LYS:HG2	1.32	0.92
3:C:9:ILE:HD11	11:K:111:LYS:HG3	1.50	0.92
1:M:161:PHE:HE2	1:M:165:ASN:HD22	1.04	0.92
1:A:1101:VAL:HG12	1:A:1102:PRO:HD3	0.92	0.92
1:A:1276:SER:N	1:A:1277:ILE:HG23	1.82	0.92
1:A:1406:CYS:HG	1:A:1415:LEU:HD21	1.29	0.92
7:G:46:ILE:CA	7:G:79:LEU:CD2	2.47	0.92
7:G:97:LYS:HA	7:G:131:TYR:OH	1.70	0.92
10:V:4:PRO:O	10:V:5:ILE:HG22	1.70	0.92
1:A:1104:LEU:C	1:A:1104:LEU:HD12	1.89	0.92
2:B:290:ASP:CB	2:B:292:ASN:CB	2.47	0.92
2:B:659:PRO:HB3	2:B:661:GLN:CG	1.99	0.92
1:M:105:LEU:O	1:M:106:GLU:HB2	1.67	0.92
2:N:155:ILE:HD11	2:N:403:PHE:CE1	2.04	0.92
2:N:214:ALA:HB1	2:N:215:ALA:HB2	1.49	0.92
1:A:127:THR:HA	1:A:130:TYR:HD2	1.32	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:378:LYS:HA	1:A:441:HIS:CD2	2.05	0.92
1:A:1461:LEU:HB3	1:A:1462:GLY:HA3	1.51	0.92
2:B:654:ARG:HA	2:B:655:TYR:O	1.69	0.92
5:E:199:THR:N	5:E:200:SER:HA	1.85	0.92
1:M:59:ARG:H	1:M:60:LEU:HA	1.33	0.92
1:M:119:SER:N	1:M:120:SER:HA	1.75	0.92
1:M:721:GLU:OE2	1:M:780:ARG:HD3	1.69	0.92
1:M:1104:LEU:C	1:M:1104:LEU:HD12	1.89	0.92
2:N:263:ARG:HB3	2:N:322:LYS:HE3	1.49	0.92
2:N:296:MET:HE3	2:N:372:LEU:HB3	0.92	0.92
2:N:753:SER:HB3	2:N:754:PRO:HD3	1.52	0.92
1:A:23:ILE:HG13	1:A:1419:ALA:O	1.70	0.92
7:G:59:LYS:HB3	7:G:60:GLY:HA2	1.37	0.92
10:J:4:PRO:O	10:J:5:ILE:HG22	1.70	0.92
1:M:25:SER:HB2	1:M:239:TRP:HE1	1.18	0.92
1:M:236:ARG:N	1:M:239:TRP:HE3	1.67	0.92
1:A:42:THR:CG2	1:A:43:MET:H	1.78	0.92
9:I:73:LYS:O	9:I:74:GLU:HB2	1.68	0.92
1:M:117:ILE:CG2	1:M:125:ASN:HB2	2.00	0.92
1:M:419:ILE:HG22	1:M:425:LYS:HD2	1.51	0.92
1:M:1094:SER:O	1:M:1095:LYS:HG3	1.68	0.92
1:M:1442:MET:HA	1:M:1442:MET:HE3	1.49	0.92
4:P:84:ARG:CG	4:P:85:PHE:H	1.83	0.92
5:Q:199:THR:N	5:Q:200:SER:HA	1.85	0.92
1:A:64:ASP:C	1:A:67:PHE:CE1	2.43	0.92
1:A:640:TRP:O	1:A:644:GLY:HA2	1.68	0.92
4:D:99:GLU:HG2	4:D:124:LEU:CD2	1.99	0.92
7:G:39:CYS:SG	7:G:45:TYR:CG	2.63	0.92
9:I:73:LYS:HG3	9:I:81:HIS:HD2	1.34	0.92
1:M:116:LYS:H	1:M:116:LYS:HD3	1.34	0.92
1:A:808:ASN:HB2	1:A:813:GLY:O	1.68	0.91
2:B:488:ILE:CD1	2:B:490:ARG:HG2	1.99	0.91
1:M:95:ILE:HD12	1:M:187:LEU:CD2	2.00	0.91
1:M:211:LEU:O	1:M:215:THR:HG23	1.70	0.91
1:M:1101:VAL:HG12	1:M:1102:PRO:HD3	0.92	0.91
2:N:219:ILE:CG2	2:N:220:ALA:H	1.82	0.91
7:S:97:LYS:HA	7:S:131:TYR:OH	1.70	0.91
9:U:67:THR:HG23	9:U:67:THR:O	1.68	0.91
1:A:1125:PRO:HB3	1:A:1128:ALA:C	1.91	0.91
1:A:1496:PHE:HD2	4:D:33:LEU:CD2	1.81	0.91
2:B:1054:GLN:CB	2:B:1056:ARG:HE	1.80	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1113:ARG:HA	2:B:1114:ASP:HB2	1.52	0.91
3:C:129:SER:C	3:C:130:LEU:HD12	1.89	0.91
7:G:114:HIS:C	7:G:114:HIS:CD2	2.44	0.91
1:A:5:GLN:O	1:A:8:PRO:HD3	1.70	0.91
1:A:236:ARG:N	1:A:239:TRP:HE3	1.67	0.91
2:B:753:SER:HB3	2:B:754:PRO:HD3	1.52	0.91
7:G:120:MET:HE1	7:G:138:ILE:HD12	1.51	0.91
1:M:1162:GLN:NE2	1:M:1162:GLN:CA	2.33	0.91
2:N:264:SER:CB	2:N:322:LYS:NZ	2.33	0.91
3:O:129:SER:C	3:O:130:LEU:HD12	1.89	0.91
7:S:39:CYS:SG	7:S:45:TYR:CG	2.63	0.91
1:A:72:CYS:HB3	2:B:1161:ALA:O	1.69	0.91
1:A:170:MET:HG3	1:A:170:MET:O	1.71	0.91
1:A:174:GLY:O	1:A:175:CYS:HB2	1.67	0.91
1:A:1493:ASP:OD1	4:D:33:LEU:HD22	1.68	0.91
2:B:715:ARG:HG2	2:B:715:ARG:HH11	1.36	0.91
7:G:14:LEU:HD22	7:G:27:LEU:HD21	1.48	0.91
9:I:53:VAL:HG13	9:I:56:THR:HB	1.53	0.91
1:M:189:LEU:O	1:M:190:TRP:HD1	1.53	0.91
1:M:1125:PRO:HB3	1:M:1128:ALA:C	1.91	0.91
2:N:101:PRO:HG3	2:N:111:TYR:CE1	2.05	0.91
7:S:35:VAL:CG1	7:S:46:ILE:HD13	2.01	0.91
1:A:108:VAL:HG13	1:A:114:LYS:N	1.86	0.91
1:A:646:GLU:HA	1:A:648:CYS:N	1.85	0.91
1:A:1119:LEU:CG	1:A:1314:THR:HG21	2.01	0.91
2:B:1180:SER:HB3	2:B:1209:HIS:HD2	1.33	0.91
7:G:35:VAL:CG1	7:G:46:ILE:HD13	2.01	0.91
1:M:5:GLN:O	1:M:8:PRO:HD3	1.70	0.91
1:M:189:LEU:HB2	1:M:208:LEU:HD11	1.52	0.91
4:P:84:ARG:CG	4:P:85:PHE:N	2.32	0.91
1:A:59:ARG:H	1:A:60:LEU:HA	1.33	0.91
1:A:195:ARG:CG	1:A:196:GLY:HA2	2.01	0.91
1:A:374:ARG:HH11	1:A:374:ARG:CB	1.84	0.91
1:A:638:THR:HG23	1:A:965:ARG:NH2	1.85	0.91
5:E:101:THR:HG21	5:E:126:THR:HG22	0.93	0.91
7:G:133:GLY:CA	7:G:134:GLU:CB	2.37	0.91
1:M:70:GLN:O	1:M:71:THR:HB	1.69	0.91
1:M:1119:LEU:CG	1:M:1314:THR:HG21	2.01	0.91
1:M:1434:ILE:O	2:N:1141:PHE:HZ	1.53	0.91
2:N:278:VAL:N	2:N:279:PRO:HD2	1.86	0.91
2:N:391:ARG:HE	2:N:618:ARG:HH21	1.11	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:486:THR:H	2:N:487:PRO:HD3	1.35	0.91
9:U:25:LEU:CB	9:U:38:ALA:HB2	1.98	0.91
1:A:207:LEU:HD22	1:A:207:LEU:N	1.86	0.91
2:B:281:ARG:HG3	9:I:6:TYR:CE1	2.05	0.91
1:M:165:ASN:CB	1:M:166:PRO:CA	2.33	0.91
1:M:806:ILE:HD11	1:M:814:LEU:HD21	1.50	0.91
1:M:846:ARG:NH1	1:M:1391:THR:CA	2.24	0.91
2:N:281:ARG:HG3	9:U:6:TYR:CE1	2.06	0.91
7:S:6:LYS:NZ	7:S:43:TYR:HE1	1.68	0.91
1:A:1461:LEU:HB3	1:A:1462:GLY:C	1.91	0.91
2:B:278:VAL:N	2:B:279:PRO:HD2	1.86	0.91
2:B:712:PRO:O	2:B:714:GLN:HG3	1.71	0.91
1:A:1162:GLN:NE2	1:A:1162:GLN:CA	2.33	0.91
4:D:98:CYS:HA	4:D:99:GLU:CG	2.00	0.91
7:G:151:THR:HG22	7:G:160:ALA:CB	1.99	0.91
1:M:646:GLU:HA	1:M:648:CYS:N	1.85	0.91
1:M:1101:VAL:CG1	1:M:1102:PRO:N	2.30	0.91
1:M:1397:ARG:CG	1:M:1398:ALA:N	2.30	0.91
2:N:287:ILE:HG12	2:N:368:ILE:HD11	1.53	0.91
2:N:454:ASP:CG	2:N:455:GLN:CA	2.39	0.91
4:P:98:CYS:HA	4:P:99:GLU:CG	2.00	0.91
9:U:5:GLN:C	9:U:14:LEU:HD12	1.91	0.91
4:D:132:LYS:HG2	4:D:133:PHE:O	1.71	0.91
10:J:42:ARG:HG3	10:J:42:ARG:HH11	1.32	0.91
1:M:106:GLU:CB	1:M:144:CYS:CB	2.49	0.91
2:N:320:ILE:O	2:N:320:ILE:HG22	1.69	0.91
2:N:386:HIS:HB3	2:N:389:LYS:N	1.85	0.91
7:S:147:LYS:HD2	7:S:169:LEU:HD11	0.94	0.91
1:A:116:LYS:HD3	1:A:116:LYS:H	1.34	0.90
1:A:128:GLN:CG	1:A:139:ALA:HB1	2.01	0.90
1:A:1192:SER:N	1:A:1193:PRO:HD3	1.86	0.90
1:A:1194:TRP:HH2	1:A:1262:GLU:HB2	1.34	0.90
1:M:141:TRP:O	1:M:144:CYS:SG	2.29	0.90
1:M:271:LYS:CD	1:M:328:LEU:HG	2.01	0.90
1:M:1276:SER:N	1:M:1277:ILE:HG23	1.84	0.90
4:P:99:GLU:HG2	4:P:124:LEU:CD2	2.00	0.90
7:S:114:HIS:C	7:S:114:HIS:CD2	2.44	0.90
7:S:164:MET:CE	7:S:170:GLY:CA	2.49	0.90
9:U:53:VAL:HG13	9:U:56:THR:HB	1.53	0.90
2:B:273:ARG:NE	2:B:310:ILE:HD12	1.87	0.90
1:M:1081:GLN:HE22	1:M:1368:TYR:HE2	1.14	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1142:GLU:O	1:M:1281:GLY:HA2	1.71	0.90
1:M:1219:ILE:HD12	1:M:1229:THR:HG21	1.53	0.90
2:N:817:LEU:HD22	2:N:819:TYR:HB2	1.52	0.90
2:N:1113:ARG:HA	2:N:1114:ASP:HB2	1.52	0.90
1:A:368:ASP:HA	1:A:513:VAL:HG21	1.51	0.90
1:M:432:LEU:HD23	1:M:436:TRP:CZ2	2.07	0.90
1:M:792:HIS:HB3	1:M:817:GLN:NE2	1.84	0.90
1:A:95:ILE:HG21	1:A:314:ILE:CD1	2.01	0.90
1:A:271:LYS:CD	1:A:328:LEU:HG	2.01	0.90
1:M:88:LEU:HB2	1:M:243:THR:O	1.71	0.90
1:M:343:ARG:HH11	1:M:343:ARG:HG2	0.78	0.90
1:M:359:ILE:HD13	1:M:488:PHE:CD2	2.06	0.90
1:M:1077:GLU:N	1:M:1078:PRO:HD2	1.85	0.90
1:M:1191:GLN:C	1:M:1246:ILE:HG23	1.91	0.90
2:N:712:PRO:O	2:N:714:GLN:HG3	1.71	0.90
2:N:1180:SER:HB3	2:N:1209:HIS:HD2	1.33	0.90
7:S:35:VAL:HG13	7:S:46:ILE:HD13	1.51	0.90
1:A:178:ALA:C	1:A:180:PRO:HD2	1.92	0.90
1:A:1219:ILE:HD12	1:A:1229:THR:HG21	1.53	0.90
7:G:6:LYS:NZ	7:G:43:TYR:HE1	1.68	0.90
1:M:64:ASP:C	1:M:67:PHE:CE1	2.43	0.90
1:M:167:SER:CA	1:M:168:ALA:HB3	2.02	0.90
1:M:1282:VAL:CB	1:M:1285:ILE:HD12	2.01	0.90
2:N:1066:THR:C	3:O:30:ASN:HD22	1.75	0.90
9:U:73:LYS:HG3	9:U:81:HIS:HD2	1.33	0.90
2:B:386:HIS:HB3	2:B:389:LYS:N	1.85	0.90
2:B:1066:THR:C	3:C:30:ASN:HD22	1.75	0.90
10:J:43:TYR:O	10:J:46:ARG:HG2	1.71	0.90
1:M:150:CYS:CB	1:M:176:GLY:HA2	1.99	0.90
1:M:517:ILE:HG13	1:M:640:TRP:NE1	1.87	0.90
1:M:1164:THR:HG22	1:M:1242:ARG:HH22	1.35	0.90
2:N:273:ARG:NE	2:N:310:ILE:HD12	1.87	0.90
4:P:58:THR:CB	4:P:62:PHE:CE2	2.50	0.90
1:A:75:THR:HB	1:A:76:MET:HA	1.52	0.90
1:A:106:GLU:HB3	1:A:144:CYS:HG	1.20	0.90
1:A:192:SER:HB2	1:A:201:ASP:O	1.72	0.90
1:A:359:ILE:HD13	1:A:488:PHE:CD2	2.06	0.90
2:B:101:PRO:HG3	2:B:111:TYR:CE1	2.05	0.90
2:B:659:PRO:CB	2:B:661:GLN:HG2	2.00	0.90
7:G:164:MET:CE	7:G:170:GLY:CA	2.49	0.90
9:I:73:LYS:HG2	9:I:81:HIS:CD2	2.06	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:208:LEU:HD23	1:M:213:VAL:HG22	1.53	0.90
2:N:216:PRO:CB	2:N:217:SER:HA	2.00	0.90
1:A:1320:THR:HG23	1:A:1321:GLU:H	1.37	0.90
2:B:287:ILE:HG12	2:B:368:ILE:HD11	1.53	0.90
8:H:63:LEU:HD23	8:H:63:LEU:C	1.93	0.90
9:I:25:LEU:CB	9:I:38:ALA:HB2	2.01	0.90
1:M:42:THR:CG2	1:M:55:LEU:HB3	1.97	0.90
1:M:75:THR:HB	1:M:76:MET:HA	1.52	0.90
1:M:374:ARG:HB2	1:M:374:ARG:NH1	1.85	0.90
2:N:391:ARG:CG	2:N:618:ARG:HH21	1.84	0.90
2:N:715:ARG:HG2	2:N:715:ARG:HH11	1.36	0.90
2:N:830:MET:HG3	2:N:999:ILE:HG22	1.54	0.90
4:P:96:LEU:O	4:P:97:CYS:SG	2.30	0.90
7:S:80:TRP:HZ3	7:S:107:LEU:HB2	1.37	0.90
9:U:75:CYS:O	9:U:75:CYS:SG	2.30	0.90
1:A:48:GLN:CG	1:A:50:PRO:HG3	2.02	0.90
2:B:817:LEU:HD22	2:B:819:TYR:HB2	1.52	0.90
1:M:95:ILE:HG13	1:M:314:ILE:HD13	1.50	0.90
1:M:128:GLN:CG	1:M:139:ALA:HB1	2.00	0.90
1:M:155:SER:CB	1:M:169:ASN:CB	2.50	0.90
1:M:202:LEU:HB3	1:M:203:PRO:HD3	1.54	0.90
3:O:80:PRO:CB	3:O:81:PRO:HD3	1.98	0.90
4:P:85:PHE:HE1	4:P:114:LYS:HB3	1.36	0.90
9:U:73:LYS:HG2	9:U:81:HIS:CD2	2.06	0.90
1:A:154:LEU:CA	1:A:173:GLY:HA2	2.02	0.90
1:A:155:SER:CB	1:A:169:ASN:CB	2.50	0.90
1:A:587:ILE:HD13	1:A:655:ILE:HG12	1.54	0.90
1:A:1191:GLN:C	1:A:1246:ILE:HG23	1.91	0.90
2:B:486:THR:H	2:B:487:PRO:HD3	1.36	0.90
1:M:1498:GLY:HA3	1:M:1500:PRO:HD3	0.90	0.90
4:P:97:CYS:O	4:P:98:CYS:SG	2.30	0.90
10:V:43:TYR:O	10:V:46:ARG:HG2	1.71	0.90
1:A:70:GLN:O	1:A:71:THR:HB	1.69	0.89
1:A:94:HIS:HD2	1:A:97:PHE:HB2	1.34	0.89
1:A:1091:GLY:CA	1:A:1092:VAL:CB	2.33	0.89
1:A:1412:VAL:CG1	1:A:1413:GLU:N	2.34	0.89
2:B:464:GLY:HA2	2:B:465:VAL:HB	1.54	0.89
2:B:659:PRO:HA	2:B:661:GLN:HG2	1.50	0.89
7:G:35:VAL:HG13	7:G:46:ILE:HD13	1.51	0.89
7:G:66:GLN:O	7:G:68:PHE:CE1	2.25	0.89
2:N:229:LEU:CA	2:N:230:GLU:CB	2.30	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:508:VAL:O	2:N:526:SER:HB3	1.71	0.89
1:A:350:ARG:O	1:A:351:VAL:HB	1.70	0.89
1:M:162:ASP:HB3	1:M:166:PRO:HD3	1.54	0.89
1:M:587:ILE:HD13	1:M:655:ILE:HG12	1.54	0.89
1:A:380:LEU:HD12	1:A:442:ILE:CD1	2.02	0.89
5:E:171:PRO:HB2	5:E:207:ARG:HG2	1.54	0.89
1:M:94:HIS:O	1:M:98:LEU:HG	1.73	0.89
1:M:152:THR:O	1:M:174:GLY:HA2	1.72	0.89
1:M:381:THR:HB	1:M:440:ARG:O	1.70	0.89
1:M:1191:GLN:CB	1:M:1246:ILE:CG2	2.49	0.89
2:N:674:ILE:HD12	2:N:674:ILE:O	1.72	0.89
3:O:130:LEU:HD23	3:O:132:HIS:CD2	2.07	0.89
1:A:90:LYS:HE3	1:A:299:GLU:HG2	1.53	0.89
1:A:211:LEU:O	1:A:215:THR:HG23	1.72	0.89
1:A:1496:PHE:CE2	4:D:33:LEU:HG	2.07	0.89
2:B:605:ILE:CB	9:I:61:ASP:HB2	2.02	0.89
4:D:96:LEU:O	4:D:97:CYS:SG	2.30	0.89
1:M:95:ILE:HD11	1:M:187:LEU:CD1	2.03	0.89
1:M:161:PHE:HE2	1:M:165:ASN:ND2	1.68	0.89
2:N:323:ARG:CB	2:N:324:GLY:HA3	2.00	0.89
2:N:752:GLN:O	2:N:754:PRO:HD2	1.72	0.89
7:S:130:ASN:HB3	7:S:139:GLU:HG3	1.54	0.89
2:B:830:MET:HG3	2:B:999:ILE:HG22	1.54	0.89
1:M:214:HIS:HB2	1:M:241:ILE:HD13	1.55	0.89
1:M:381:THR:CA	1:M:382:TYR:HB2	1.96	0.89
1:A:71:THR:O	1:A:72:CYS:SG	2.30	0.89
1:A:432:LEU:HD23	1:A:436:TRP:CZ2	2.07	0.89
2:B:236:ILE:O	2:B:237:SER:HB3	1.71	0.89
2:B:454:ASP:CG	2:B:455:GLN:CA	2.39	0.89
4:D:85:PHE:HE1	4:D:114:LYS:HB3	1.36	0.89
1:M:48:GLN:CG	1:M:50:PRO:HG3	2.02	0.89
1:M:781:ILE:CG1	1:M:821:PHE:HE2	1.84	0.89
1:A:1077:GLU:N	1:A:1078:PRO:HD2	1.85	0.89
2:B:207:ILE:HA	2:B:208:VAL:HB	1.53	0.89
2:B:508:VAL:O	2:B:526:SER:HB3	1.72	0.89
2:B:1205:PHE:HE2	2:B:1210:LYS:HB2	1.37	0.89
7:G:151:THR:CA	7:G:160:ALA:HB2	2.03	0.89
9:I:75:CYS:O	9:I:75:CYS:SG	2.30	0.89
10:J:43:TYR:HB2	10:J:44:CYS:CA	2.02	0.89
1:M:1504:ALA:O	1:M:1507:PRO:HG2	1.73	0.89
2:N:254:THR:HG22	2:N:302:PRO:HB2	0.94	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:264:SER:CB	2:N:322:LYS:HZ2	1.86	0.89
4:P:99:GLU:CG	4:P:124:LEU:CD2	2.50	0.89
4:P:132:LYS:HA	4:P:134:GLN:N	1.88	0.89
1:A:374:ARG:HB2	1:A:374:ARG:NH1	1.87	0.89
2:B:674:ILE:O	2:B:674:ILE:HD12	1.72	0.89
1:M:43:MET:O	1:M:43:MET:HG2	1.72	0.89
1:M:71:THR:O	1:M:72:CYS:SG	2.30	0.89
1:M:947:LYS:HB3	1:M:951:PRO:CD	2.03	0.89
7:S:151:THR:CA	7:S:160:ALA:HB2	2.03	0.89
1:A:946:CYS:HB2	1:A:949:ILE:HD13	1.53	0.89
9:I:22:ASP:O	9:I:23:ARG:HB2	1.71	0.89
1:M:95:ILE:CD1	1:M:187:LEU:CD2	2.51	0.89
2:B:273:ARG:HD2	2:B:310:ILE:HD13	1.55	0.89
2:B:752:GLN:O	2:B:754:PRO:HD2	1.72	0.89
1:M:368:ASP:CG	1:M:649:LYS:CE	2.42	0.89
1:M:778:GLY:HA3	1:M:1091:GLY:C	1.93	0.89
1:M:946:CYS:HB2	1:M:949:ILE:HD13	1.53	0.89
1:M:1506:SER:N	1:M:1507:PRO:HD2	1.87	0.89
2:N:1205:PHE:HE2	2:N:1210:LYS:HB2	1.37	0.89
8:T:39:THR:HG23	8:T:103:ALA:HB3	1.55	0.89
3:C:173:PRO:HB2	3:C:244:ILE:HD11	1.55	0.88
1:M:204:GLU:HG2	1:M:205:LYS:H	1.36	0.88
1:M:1412:VAL:CG1	1:M:1413:GLU:N	2.34	0.88
7:S:66:GLN:O	7:S:68:PHE:CE1	2.25	0.88
1:A:90:LYS:HZ1	1:A:282:VAL:CG1	1.82	0.88
9:I:64:THR:O	9:I:66:PRO:HD3	1.74	0.88
10:J:43:TYR:CB	10:J:44:CYS:CA	2.52	0.88
1:M:170:MET:HG3	1:M:170:MET:O	1.71	0.88
1:M:271:LYS:HD3	1:M:322:GLN:NE2	1.89	0.88
2:N:290:ASP:CB	2:N:292:ASN:ND2	2.37	0.88
2:N:486:THR:HG21	2:N:521:LEU:HB3	1.55	0.88
2:N:991:SER:HB2	2:N:1062:TYR:H	1.38	0.88
8:T:63:LEU:HD23	8:T:63:LEU:C	1.92	0.88
1:A:98:LEU:O	1:A:101:ILE:HG22	1.72	0.88
1:A:157:GLY:HA2	1:A:168:ALA:HB1	1.54	0.88
1:A:167:SER:CA	1:A:168:ALA:HB3	2.02	0.88
1:A:1496:PHE:HB3	4:D:29:GLU:OE2	1.73	0.88
2:B:199:ALA:HB3	2:B:484:THR:HB	1.56	0.88
2:B:991:SER:HB2	2:B:1062:TYR:H	1.38	0.88
3:C:130:LEU:HD23	3:C:132:HIS:CD2	2.07	0.88
1:M:90:LYS:HE3	1:M:299:GLU:HG2	1.53	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:432:LEU:CA	1:M:436:TRP:CZ2	2.56	0.88
2:N:391:ARG:NE	2:N:618:ARG:HH21	1.70	0.88
2:N:464:GLY:HA2	2:N:465:VAL:HB	1.54	0.88
4:P:132:LYS:HG2	4:P:133:PHE:O	1.71	0.88
9:U:64:THR:O	9:U:66:PRO:HD3	1.74	0.88
1:A:177:ALA:HB3	1:A:179:GLN:CG	2.03	0.88
2:B:155:ILE:HD11	2:B:403:PHE:CE1	2.08	0.88
7:G:52:SER:N	7:G:55:ILE:CD1	2.32	0.88
1:M:177:ALA:HB3	1:M:179:GLN:HE21	1.35	0.88
7:S:149:VAL:HG21	7:S:163:THR:HG23	1.56	0.88
1:A:161:PHE:HE2	1:A:165:ASN:ND2	1.68	0.88
7:G:147:LYS:HD2	7:G:169:LEU:HD11	0.94	0.88
1:M:1150:THR:HB	9:U:48:LEU:HD22	1.51	0.88
2:N:659:PRO:HA	2:N:660:GLU:O	1.73	0.88
10:V:43:TYR:HB2	10:V:44:CYS:CA	2.02	0.88
1:A:162:ASP:HA	1:A:165:ASN:CB	2.03	0.88
1:A:208:LEU:CD1	1:A:208:LEU:H	1.87	0.88
1:A:322:GLN:OE1	1:A:328:LEU:CG	2.22	0.88
1:A:651:PHE:CZ	1:A:655:ILE:HD11	2.08	0.88
1:A:1450:TYR:HD1	7:G:60:GLY:O	1.55	0.88
2:B:427:GLU:O	2:B:428:PHE:HB2	1.73	0.88
2:B:659:PRO:HA	2:B:660:GLU:O	1.73	0.88
4:D:97:CYS:O	4:D:98:CYS:SG	2.30	0.88
1:M:202:LEU:HB3	1:M:203:PRO:HD2	1.43	0.88
1:M:1404:MET:SD	1:M:1429:GLY:HA3	2.12	0.88
9:U:22:ASP:O	9:U:23:ARG:HB2	1.71	0.88
9:U:25:LEU:CB	9:U:38:ALA:CB	2.51	0.88
1:A:195:ARG:HB3	1:A:196:GLY:HA2	1.53	0.88
1:A:1404:MET:SD	1:A:1429:GLY:HA3	2.12	0.88
9:I:65:ASP:OD2	9:I:68:LEU:HD12	1.74	0.88
1:M:162:ASP:HA	1:M:165:ASN:CB	2.03	0.88
1:M:322:GLN:OE1	1:M:328:LEU:CG	2.22	0.88
1:M:1165:VAL:CG1	1:M:1166:ILE:H	1.81	0.88
2:N:605:ILE:CB	9:U:61:ASP:HB2	2.02	0.88
1:A:117:ILE:CG2	1:A:125:ASN:HB2	2.00	0.88
1:A:166:PRO:C	1:A:168:ALA:CB	2.42	0.88
1:A:432:LEU:CA	1:A:436:TRP:CZ2	2.56	0.88
1:A:947:LYS:HB3	1:A:951:PRO:CD	2.03	0.88
1:A:1164:THR:HG22	1:A:1242:ARG:HH22	1.35	0.88
1:A:1276:SER:CB	1:A:1277:ILE:CG1	2.44	0.88
2:B:287:ILE:CD1	2:B:368:ILE:HD11	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:39:THR:HG23	8:H:103:ALA:HB3	1.55	0.88
1:M:605:ASN:HB2	1:M:606:PRO:C	1.94	0.88
2:N:655:TYR:H	2:N:655:TYR:HD2	1.17	0.88
1:A:150:CYS:HB2	1:A:176:GLY:CA	2.04	0.88
1:A:605:ASN:HB2	1:A:606:PRO:C	1.94	0.88
1:A:1472:GLY:O	1:A:1473:MET:HG2	1.74	0.88
4:D:132:LYS:HA	4:D:134:GLN:N	1.88	0.88
5:E:14:ALA:HA	5:E:17:THR:HG22	1.53	0.88
1:M:350:ARG:O	1:M:351:VAL:HB	1.71	0.88
2:N:207:ILE:HA	2:N:208:VAL:HB	1.53	0.88
4:P:132:LYS:HA	4:P:133:PHE:O	1.74	0.88
1:A:457:HIS:CG	1:A:1077:GLU:OE2	2.27	0.88
1:A:1299:ILE:HD11	1:A:1305:GLU:HG3	1.54	0.88
2:B:290:ASP:CB	2:B:292:ASN:ND2	2.37	0.88
2:B:1113:ARG:HG3	2:B:1113:ARG:O	1.73	0.88
4:D:58:THR:CB	4:D:62:PHE:CE2	2.50	0.88
1:M:193:TRP:O	1:M:200:SER:HB3	1.74	0.88
1:M:375:SER:HB3	11:W:2:ASN:HD21	1.36	0.88
1:M:1450:TYR:CE1	7:S:61:ARG:HB2	2.07	0.88
2:N:287:ILE:CD1	2:N:368:ILE:HD11	2.04	0.88
2:N:1108:VAL:HG22	2:N:1109:GLU:H	1.37	0.88
9:U:73:LYS:H	9:U:81:HIS:CD2	1.90	0.88
1:A:119:SER:N	1:A:120:SER:CA	2.30	0.87
1:A:507:ILE:HA	1:A:511:THR:CG2	2.04	0.87
2:B:815:ALA:O	2:B:1000:ILE:HB	1.75	0.87
2:B:1108:VAL:HG22	2:B:1109:GLU:N	1.89	0.87
1:M:651:PHE:CZ	1:M:655:ILE:HD11	2.08	0.87
1:A:1094:SER:C	1:A:1095:LYS:HG3	1.92	0.87
2:B:290:ASP:CA	2:B:292:ASN:CB	2.46	0.87
4:D:132:LYS:HA	4:D:133:PHE:O	1.74	0.87
7:G:133:GLY:HA3	7:G:134:GLU:HB3	0.88	0.87
1:M:350:ARG:HD3	2:N:1117:LEU:O	1.74	0.87
2:N:27:GLU:OE1	2:N:666:THR:HB	1.74	0.87
3:O:173:PRO:HB2	3:O:244:ILE:HD11	1.55	0.87
7:S:133:GLY:CA	7:S:134:GLU:CB	2.37	0.87
1:A:708:LEU:HB3	1:A:709:LYS:HA	0.89	0.87
1:A:1282:VAL:CG1	1:A:1285:ILE:HD12	2.04	0.87
5:E:190:VAL:HG22	5:E:208:ILE:HG22	1.56	0.87
1:M:177:ALA:CA	1:M:178:ALA:CB	2.47	0.87
1:M:236:ARG:N	1:M:239:TRP:CE3	2.42	0.87
1:A:162:ASP:HB3	1:A:166:PRO:HD3	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:205:LYS:C	1:A:206:ARG:HD2	1.93	0.87
1:A:517:ILE:HG13	1:A:640:TRP:NE1	1.87	0.87
1:A:781:ILE:HG21	1:A:803:ARG:HA	1.54	0.87
2:B:287:ILE:CG1	2:B:368:ILE:HD11	2.04	0.87
4:D:99:GLU:CG	4:D:124:LEU:CD2	2.49	0.87
1:M:507:ILE:HA	1:M:511:THR:CG2	2.05	0.87
1:M:1194:TRP:HH2	1:M:1262:GLU:HB2	1.34	0.87
2:N:287:ILE:CG1	2:N:368:ILE:HD11	2.05	0.87
2:N:538:ALA:HB3	2:N:539:PRO:HD3	1.55	0.87
5:Q:171:PRO:HB2	5:Q:207:ARG:HG2	1.54	0.87
9:U:85:PHE:O	9:U:86:TYR:HB3	1.73	0.87
1:A:81:GLY:C	1:A:249:PRO:HG3	1.94	0.87
2:B:943:VAL:HG22	2:B:953:VAL:HG13	1.56	0.87
1:M:174:GLY:O	1:M:175:CYS:HB2	1.71	0.87
1:M:1081:GLN:NE2	1:M:1368:TYR:CE2	2.42	0.87
10:V:43:TYR:CB	10:V:44:CYS:CA	2.51	0.87
1:A:846:ARG:CG	1:A:1390:ILE:HG22	2.05	0.87
1:A:1100:GLY:O	1:A:1102:PRO:HD2	1.73	0.87
7:G:130:ASN:HB3	7:G:139:GLU:HG3	1.54	0.87
7:G:149:VAL:HG21	7:G:163:THR:HG23	1.56	0.87
1:M:50:PRO:O	1:M:51:ARG:CG	2.20	0.87
1:M:708:LEU:HB3	1:M:709:LYS:HA	0.88	0.87
2:N:328:GLY:C	2:N:329:VAL:HG22	1.94	0.87
9:U:4:PHE:HE1	9:U:27:LEU:HD21	0.99	0.87
1:A:214:HIS:HB2	1:A:241:ILE:HD13	1.56	0.87
1:A:230:LEU:HD11	1:A:237:PRO:CG	2.01	0.87
1:A:260:GLY:CA	2:B:924:ARG:NE	2.38	0.87
1:A:1397:ARG:CG	1:A:1398:ALA:N	2.29	0.87
7:G:46:ILE:O	7:G:46:ILE:HG22	1.75	0.87
1:M:42:THR:HG21	1:M:55:LEU:CG	2.05	0.87
1:M:338:LYS:CG	1:M:343:ARG:CD	2.53	0.87
1:M:950:PHE:HB2	1:M:951:PRO:HD3	1.55	0.87
1:M:1100:GLY:O	1:M:1102:PRO:HD2	1.73	0.87
2:N:508:VAL:HA	2:N:509:CYS:CB	2.03	0.87
2:N:907:ILE:HD13	2:N:924:ARG:CZ	2.04	0.87
2:N:1113:ARG:O	2:N:1113:ARG:HG3	1.73	0.87
4:P:97:CYS:SG	4:P:131:ARG:NH2	2.48	0.87
7:S:133:GLY:HA3	7:S:134:GLU:HB3	0.88	0.87
1:A:43:MET:HG2	1:A:43:MET:O	1.72	0.87
1:A:95:ILE:CG1	1:A:314:ILE:CD1	2.47	0.87
1:A:108:VAL:HG12	1:A:113:GLY:HA2	0.90	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1075:ILE:O	1:A:1078:PRO:HG2	1.75	0.87
3:C:87:THR:HG21	3:C:161:LYS:HD3	1.57	0.87
3:C:137:ASP:OD1	3:C:140:SER:HB2	1.74	0.87
1:M:1320:THR:HG23	1:M:1321:GLU:H	1.37	0.87
1:M:1450:TYR:HD1	7:S:61:ARG:CA	1.86	0.87
8:T:62:ASN:HB3	8:T:63:LEU:CB	2.02	0.87
9:U:65:ASP:OD2	9:U:68:LEU:HD12	1.74	0.87
1:A:42:THR:HG21	1:A:55:LEU:CG	2.05	0.87
1:A:950:PHE:HB2	1:A:951:PRO:HD3	1.55	0.87
1:A:1081:GLN:NE2	1:A:1368:TYR:CE2	2.42	0.87
1:A:1191:GLN:CB	1:A:1246:ILE:CG2	2.50	0.87
1:M:81:GLY:C	1:M:249:PRO:HG3	1.94	0.87
1:M:195:ARG:CB	1:M:196:GLY:HA2	2.04	0.87
1:M:822:HIS:CE1	2:N:753:SER:HB2	2.09	0.87
2:N:180:CYS:SG	2:N:772:THR:HG22	2.15	0.87
9:U:111:GLU:O	9:U:112:GLU:HB2	1.75	0.87
1:A:740:GLU:OE2	1:A:764:ILE:HB	1.74	0.86
2:B:180:CYS:SG	2:B:772:THR:HG22	2.15	0.86
2:B:488:ILE:CG2	2:B:489:GLY:CA	2.49	0.86
4:D:32:ILE:HD12	4:D:74:THR:CG2	2.00	0.86
7:G:80:TRP:HZ3	7:G:107:LEU:HB2	1.37	0.86
1:M:260:GLY:HA3	2:N:924:ARG:HE	1.40	0.86
1:M:728:LEU:HD22	1:M:805:PHE:CE1	2.10	0.86
2:N:386:HIS:CD2	2:N:388:GLY:HA3	2.08	0.86
3:O:137:ASP:OD1	3:O:140:SER:HB2	1.74	0.86
1:A:728:LEU:HD22	1:A:805:PHE:CE1	2.10	0.86
1:A:1192:SER:H	1:A:1193:PRO:CD	1.88	0.86
1:A:1406:CYS:SG	1:A:1415:LEU:CD2	2.64	0.86
2:B:819:TYR:O	2:B:820:SER:HB3	1.75	0.86
1:M:107:CYS:O	1:M:108:VAL:HG13	1.73	0.86
1:M:775:ILE:C	1:M:776:VAL:CG1	2.43	0.86
1:M:1119:LEU:HG	1:M:1314:THR:CG2	2.04	0.86
2:N:273:ARG:HD2	2:N:310:ILE:HD13	1.55	0.86
1:A:49:ARG:N	1:A:50:PRO:CD	2.38	0.86
1:A:192:SER:CB	1:A:202:LEU:HA	2.05	0.86
4:D:97:CYS:SG	4:D:131:ARG:NH2	2.48	0.86
9:I:73:LYS:HG2	9:I:81:HIS:HD2	1.38	0.86
1:M:778:GLY:CA	1:M:1091:GLY:C	2.44	0.86
1:M:1075:ILE:O	1:M:1078:PRO:HG2	1.75	0.86
1:M:1150:THR:HB	9:U:48:LEU:HD23	1.55	0.86
2:N:815:ALA:O	2:N:1000:ILE:HB	1.75	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:96:PRO:HG3	7:S:19:PHE:HB2	1.57	0.86
1:A:1119:LEU:HG	1:A:1314:THR:CG2	2.04	0.86
1:A:1462:GLY:O	1:A:1463:THR:HG22	1.74	0.86
2:B:263:ARG:HB3	2:B:322:LYS:CD	2.04	0.86
1:M:157:GLY:HA2	1:M:168:ALA:HB1	1.54	0.86
1:M:267:ASP:HB2	1:M:268:LEU:CB	1.99	0.86
1:M:368:ASP:HA	1:M:513:VAL:HG21	1.56	0.86
1:M:781:ILE:HG21	1:M:803:ARG:HA	1.54	0.86
5:Q:14:ALA:HA	5:Q:17:THR:HG22	1.53	0.86
5:Q:190:VAL:HG22	5:Q:208:ILE:HG22	1.56	0.86
7:S:100:PHE:HB2	7:S:111:VAL:HG13	1.57	0.86
9:U:6:TYR:O	9:U:14:LEU:HD11	1.75	0.86
1:A:1295:ILE:HG22	1:A:1307:ALA:O	1.74	0.86
2:B:296:MET:CE	2:B:372:LEU:CB	2.36	0.86
2:B:655:TYR:H	2:B:655:TYR:HD2	1.17	0.86
1:M:166:PRO:C	1:M:168:ALA:CB	2.42	0.86
1:M:1406:CYS:SG	1:M:1415:LEU:CD2	2.64	0.86
2:N:907:ILE:HD11	2:N:924:ARG:CZ	2.05	0.86
3:O:129:SER:CB	3:O:130:LEU:CA	2.53	0.86
1:A:40:PRO:CG	1:A:276:ILE:CG2	2.35	0.86
1:A:271:LYS:HD3	1:A:322:GLN:NE2	1.89	0.86
1:A:353:PHE:CE2	1:A:381:THR:O	2.29	0.86
1:A:517:ILE:HD11	1:A:640:TRP:HD1	0.97	0.86
4:D:43:ARG:O	4:D:44:GLU:HG3	1.75	0.86
1:M:945:LEU:O	1:M:949:ILE:HG23	1.76	0.86
1:M:1179:ILE:N	1:M:1180:PRO:HD2	1.91	0.86
2:N:199:ALA:HB3	2:N:484:THR:HB	1.57	0.86
1:A:153:GLY:HA2	1:A:174:GLY:HA3	1.57	0.86
1:A:922:GLU:CB	1:A:923:ASN:HA	2.06	0.86
2:B:486:THR:HG21	2:B:521:LEU:HB3	1.56	0.86
9:I:53:VAL:HG12	9:I:56:THR:CB	2.06	0.86
1:M:1192:SER:N	1:M:1193:PRO:HD3	1.86	0.86
4:P:43:ARG:O	4:P:44:GLU:HG3	1.75	0.86
1:A:316:GLY:O	1:A:317:GLN:HB2	1.76	0.86
4:D:24:MET:HG3	7:G:4:PHE:CE1	2.08	0.86
1:M:193:TRP:O	1:M:200:SER:CB	2.24	0.86
1:M:775:ILE:HD13	1:M:776:VAL:N	1.89	0.86
1:M:806:ILE:CD1	1:M:814:LEU:HG	2.04	0.86
1:M:1089:TYR:N	1:M:1090:ALA:CB	2.38	0.86
1:M:1290:MET:HG3	1:M:1310:TRP:HE3	1.41	0.86
2:N:236:ILE:O	2:N:237:SER:HB3	1.71	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1108:VAL:HG22	2:N:1109:GLU:N	1.89	0.86
4:P:24:MET:HG3	7:S:4:PHE:CE1	2.08	0.86
1:A:350:ARG:HD3	2:B:1117:LEU:O	1.75	0.86
1:A:573:LYS:HB3	1:A:574:PRO:HD2	1.56	0.86
1:A:775:ILE:C	1:A:776:VAL:CG1	2.43	0.86
1:A:1223:PHE:CE2	1:A:1273:MET:SD	2.68	0.86
2:B:907:ILE:HD11	2:B:924:ARG:CZ	2.05	0.86
4:D:24:MET:SD	4:D:88:PHE:HA	2.15	0.86
9:I:85:PHE:O	9:I:86:TYR:HB3	1.73	0.86
1:M:98:LEU:O	1:M:101:ILE:HG22	1.76	0.86
1:M:1110:VAL:HG11	1:M:1387:LEU:CD1	2.04	0.86
2:N:296:MET:CE	2:N:372:LEU:CB	2.36	0.86
2:N:427:GLU:O	2:N:428:PHE:HB2	1.73	0.86
4:P:26:THR:OG1	4:P:29:GLU:CB	2.20	0.86
7:S:52:SER:N	7:S:55:ILE:CD1	2.32	0.86
1:A:15:ARG:HH21	7:G:64:PRO:HG2	1.32	0.86
1:A:236:ARG:N	1:A:239:TRP:CE3	2.42	0.86
1:A:721:GLU:OE2	1:A:780:ARG:CD	2.24	0.86
2:B:27:GLU:OE1	2:B:666:THR:HB	1.75	0.86
2:B:538:ALA:HB3	2:B:539:PRO:HD3	1.55	0.86
2:B:907:ILE:HD13	2:B:924:ARG:CZ	2.05	0.86
9:I:4:PHE:HE1	9:I:27:LEU:CD2	1.84	0.86
9:I:111:GLU:O	9:I:112:GLU:HB2	1.75	0.86
1:M:30:ARG:HG3	1:M:244:VAL:HG21	1.58	0.86
1:M:153:GLY:CA	1:M:174:GLY:HA3	2.03	0.86
4:P:99:GLU:CB	4:P:124:LEU:CD2	2.54	0.86
7:S:120:MET:HE1	7:S:138:ILE:HD12	1.56	0.86
1:A:945:LEU:O	1:A:949:ILE:HG23	1.76	0.85
1:A:1165:VAL:CG1	1:A:1166:ILE:H	1.81	0.85
5:E:119:ALA:HB2	5:E:127:ILE:HD11	1.58	0.85
1:M:90:LYS:HZ1	1:M:282:VAL:CG1	1.87	0.85
1:M:740:GLU:OE2	1:M:764:ILE:HB	1.75	0.85
1:M:846:ARG:CG	1:M:1390:ILE:HG22	2.06	0.85
2:N:307:ALA:O	2:N:310:ILE:HG13	1.76	0.85
2:N:943:VAL:HG22	2:N:953:VAL:HG13	1.56	0.85
7:S:46:ILE:O	7:S:46:ILE:HG22	1.75	0.85
1:A:1085:ASN:OD1	1:A:1088:HIS:CD2	2.29	0.85
1:M:780:ARG:HH11	1:M:803:ARG:NH2	1.73	0.85
2:N:819:TYR:O	2:N:820:SER:HB3	1.75	0.85
1:A:260:GLY:HA3	2:B:924:ARG:HE	1.41	0.85
1:A:778:GLY:HA2	1:A:1091:GLY:C	1.97	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1110:VAL:HG11	1:A:1387:LEU:CD1	2.04	0.85
2:B:216:PRO:CB	2:B:217:SER:HA	2.00	0.85
4:D:22:GLU:CD	7:G:6:LYS:HB2	1.96	0.85
1:M:573:LYS:HB3	1:M:574:PRO:HD2	1.56	0.85
1:A:21:PHE:CZ	1:A:1403:LEU:HD12	2.12	0.85
1:A:267:ASP:HB2	1:A:268:LEU:CB	1.99	0.85
2:B:281:ARG:HG3	9:I:6:TYR:CE2	2.11	0.85
1:M:1094:SER:C	1:M:1095:LYS:HG3	1.92	0.85
1:A:30:ARG:HG3	1:A:244:VAL:HG21	1.58	0.85
1:A:1089:TYR:N	1:A:1090:ALA:CB	2.37	0.85
1:A:1179:ILE:N	1:A:1180:PRO:HD2	1.91	0.85
1:A:1485:PRO:O	1:A:1486:TYR:HB2	1.74	0.85
3:C:129:SER:CB	3:C:130:LEU:CA	2.53	0.85
7:G:138:ILE:CG1	7:G:171:VAL:HG22	2.06	0.85
1:M:179:GLN:N	1:M:180:PRO:HD2	1.90	0.85
1:M:419:ILE:HG23	1:M:425:LYS:HD2	1.59	0.85
1:M:728:LEU:HD13	1:M:805:PHE:HD1	1.38	0.85
1:M:1085:ASN:HA	1:M:1088:HIS:CD2	2.11	0.85
1:M:1140:GLN:O	1:M:1280:ARG:CB	2.23	0.85
1:A:208:LEU:CD1	1:A:208:LEU:N	2.38	0.85
1:A:432:LEU:CA	1:A:436:TRP:HZ2	1.89	0.85
2:B:220:ALA:O	2:B:221:TYR:HB2	1.76	0.85
2:B:703:GLY:O	2:B:704:TYR:CD1	2.30	0.85
3:C:249:LEU:HD12	3:C:249:LEU:N	1.90	0.85
4:D:70:THR:OG1	4:D:73:ALA:HB2	1.76	0.85
5:E:27:TYR:CE2	5:E:63:PRO:HG3	2.10	0.85
8:H:62:ASN:HB3	8:H:63:LEU:CB	2.02	0.85
1:M:120:SER:N	1:M:121:ASN:C	2.30	0.85
1:M:721:GLU:OE2	1:M:780:ARG:CD	2.24	0.85
1:M:869:ILE:HD11	1:M:872:PHE:CE2	2.11	0.85
1:M:1223:PHE:CE2	1:M:1273:MET:SD	2.69	0.85
1:A:42:THR:CG2	1:A:43:MET:N	2.35	0.85
1:A:780:ARG:HH11	1:A:803:ARG:NH2	1.74	0.85
2:B:264:SER:HB2	2:B:322:LYS:HZ2	1.31	0.85
4:D:99:GLU:CB	4:D:124:LEU:CD2	2.53	0.85
9:I:69:PRO:HB2	9:I:85:PHE:CZ	2.12	0.85
1:M:316:GLY:O	1:M:317:GLN:HB2	1.75	0.85
1:M:812:ARG:HB2	1:M:813:GLY:HA2	1.56	0.85
1:M:1146:LEU:CD1	1:M:1274:LEU:HA	2.05	0.85
1:M:1450:TYR:CE2	6:R:125:ARG:HG3	2.11	0.85
2:N:839:LEU:HD13	2:N:840:PHE:CE1	2.12	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:53:VAL:HG12	9:U:56:THR:CB	2.06	0.85
1:A:107:CYS:HG	1:A:140:VAL:HG11	1.41	0.85
1:A:775:ILE:HD13	1:A:776:VAL:N	1.89	0.85
2:B:307:ALA:O	2:B:310:ILE:HG13	1.76	0.85
2:B:1207:LYS:HG2	2:B:1208:ASN:H	1.42	0.85
2:N:220:ALA:O	2:N:221:TYR:HB2	1.75	0.85
2:N:816:ILE:HG12	2:N:1001:ILE:HD11	1.58	0.85
2:N:1058:PHE:CE1	3:O:193:TRP:HD1	1.95	0.85
6:F:137:SER:OG	6:F:140:GLU:HB2	1.77	0.85
7:G:87:VAL:HG22	7:G:147:LYS:HG2	1.59	0.85
1:M:49:ARG:N	1:M:50:PRO:CD	2.38	0.85
1:M:180:PRO:CB	1:M:192:SER:O	2.25	0.85
2:N:1108:VAL:CG1	2:N:1115:GLY:O	2.23	0.85
3:O:87:THR:HG21	3:O:161:LYS:HD3	1.57	0.85
4:P:70:THR:OG1	4:P:73:ALA:HB2	1.76	0.85
1:A:869:ILE:HD11	1:A:872:PHE:CE2	2.11	0.85
2:B:386:HIS:CD2	2:B:388:GLY:HA3	2.08	0.85
2:B:1058:PHE:CE1	3:C:193:TRP:HD1	1.95	0.85
1:M:42:THR:CG2	1:M:43:MET:H	1.78	0.85
1:M:506:GLU:OE2	1:M:1444:THR:HG21	1.77	0.85
2:N:387:PHE:HD2	2:N:503:THR:HG21	1.40	0.85
3:O:249:LEU:HD12	3:O:249:LEU:N	1.90	0.85
4:P:22:GLU:CD	7:S:6:LYS:HB2	1.96	0.85
9:U:69:PRO:HB2	9:U:85:PHE:CZ	2.12	0.85
1:A:257:SER:HA	1:A:263:ARG:HA	1.57	0.84
1:A:810:TYR:HE2	2:B:751:ASN:O	1.59	0.84
1:A:810:TYR:CE2	2:B:751:ASN:O	2.29	0.84
1:A:1085:ASN:HA	1:A:1088:HIS:CD2	2.11	0.84
1:A:1172:PHE:O	1:A:1176:PHE:CD2	2.30	0.84
2:B:189:ILE:HG13	2:B:189:ILE:O	1.76	0.84
2:B:320:ILE:O	2:B:320:ILE:HG22	1.74	0.84
1:M:462:MET:HE2	1:M:513:VAL:HA	1.58	0.84
2:N:867:VAL:HG22	2:N:869:SER:OG	1.77	0.84
1:A:208:LEU:N	1:A:208:LEU:HD12	1.92	0.84
1:A:728:LEU:HD13	1:A:805:PHE:HD1	1.37	0.84
2:B:867:VAL:HG22	2:B:869:SER:OG	1.77	0.84
4:D:67:ARG:NH1	4:D:97:CYS:SG	2.50	0.84
1:M:106:GLU:HB2	1:M:144:CYS:HB3	1.57	0.84
1:M:810:TYR:CE2	2:N:752:GLN:HA	2.12	0.84
1:M:857:ARG:HH11	1:M:857:ARG:CG	1.90	0.84
4:P:24:MET:SD	4:P:88:PHE:HA	2.15	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:25:LEU:HD12	7:S:5:LEU:HB2	1.57	0.84
5:Q:27:TYR:CE2	5:Q:63:PRO:HG3	2.10	0.84
7:S:46:ILE:CG1	7:S:79:LEU:HD21	2.07	0.84
1:A:345:ASN:O	1:A:349:LYS:CE	2.25	0.84
1:M:126:ASP:O	1:M:130:TYR:CD2	2.30	0.84
1:M:1392:ARG:O	1:M:1393:HIS:CG	2.30	0.84
2:N:659:PRO:HB3	2:N:661:GLN:HG2	1.57	0.84
1:A:1173:VAL:O	1:A:1177:PHE:CD2	2.30	0.84
2:B:166:LEU:O	2:B:169:VAL:HG23	1.77	0.84
2:B:1108:VAL:CG1	2:B:1115:GLY:O	2.23	0.84
7:G:5:LEU:HD11	7:G:50:LEU:HD11	0.88	0.84
1:M:266:ASP:CA	1:M:267:ASP:HB2	2.07	0.84
1:M:922:GLU:CB	1:M:923:ASN:HA	2.06	0.84
1:M:1085:ASN:OD1	1:M:1088:HIS:CD2	2.30	0.84
1:M:1144:THR:OG1	1:M:1279:LEU:HB2	1.78	0.84
1:M:1144:THR:HB	1:M:1279:LEU:HD12	1.58	0.84
2:N:1026:LEU:HB3	2:N:1051:HIS:CD2	2.11	0.84
5:Q:119:ALA:HB2	5:Q:127:ILE:HD11	1.59	0.84
1:A:271:LYS:HE2	1:A:328:LEU:CB	2.08	0.84
1:A:1395:ILE:HD12	1:A:1397:ARG:CB	2.02	0.84
2:B:839:LEU:HD13	2:B:840:PHE:CE1	2.12	0.84
8:H:93:VAL:HG21	8:H:113:ARG:HD2	1.59	0.84
1:M:271:LYS:HD3	1:M:328:LEU:HG	1.59	0.84
1:A:205:LYS:HG3	1:A:206:ARG:NE	1.91	0.84
1:A:266:ASP:CA	1:A:267:ASP:HB2	2.07	0.84
1:A:780:ARG:NH1	1:A:803:ARG:HH21	1.75	0.84
1:A:781:ILE:HG12	1:A:821:PHE:CD2	2.12	0.84
2:B:508:VAL:HA	2:B:509:CYS:CB	2.03	0.84
1:M:106:GLU:HB3	1:M:144:CYS:HB3	1.58	0.84
1:M:780:ARG:NH1	1:M:803:ARG:HH21	1.75	0.84
7:S:138:ILE:CG1	7:S:171:VAL:HG22	2.06	0.84
9:U:4:PHE:CD1	9:U:27:LEU:HD21	2.13	0.84
9:U:4:PHE:CE2	9:U:43:VAL:HG13	2.12	0.84
1:A:201:ASP:CB	1:A:206:ARG:NH1	2.40	0.84
9:I:4:PHE:CD1	9:I:27:LEU:HD21	2.13	0.84
1:M:342:LEU:HD11	1:M:1409:GLU:HG2	1.58	0.84
1:M:775:ILE:HG13	1:M:1089:TYR:CG	2.13	0.84
2:N:703:GLY:O	2:N:704:TYR:CD1	2.30	0.84
1:A:271:LYS:HB2	1:A:322:GLN:HE22	1.42	0.84
1:A:380:LEU:HD12	1:A:442:ILE:HD13	1.60	0.84
1:A:857:ARG:CG	1:A:857:ARG:HH11	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:778:GLY:HA2	1:M:1091:GLY:HA2	1.59	0.84
1:M:1170:LYS:CE	1:M:1240:ILE:HD11	2.07	0.84
2:N:281:ARG:HG3	9:U:6:TYR:CE2	2.12	0.84
4:P:67:ARG:NH1	4:P:97:CYS:SG	2.50	0.84
1:A:551:ALA:HA	1:A:553:MET:N	1.93	0.84
1:A:1450:TYR:O	1:A:1451:LEU:HD23	1.76	0.84
7:G:46:ILE:CG1	7:G:79:LEU:HD21	2.07	0.84
1:M:42:THR:CG2	1:M:55:LEU:HG	2.08	0.84
1:M:257:SER:HA	1:M:263:ARG:HA	1.57	0.84
1:M:517:ILE:HD11	1:M:640:TRP:HD1	0.96	0.84
1:M:551:ALA:HA	1:M:553:MET:N	1.93	0.84
1:A:342:LEU:HD11	1:A:1409:GLU:HG2	1.60	0.84
1:A:351:VAL:CG1	1:A:352:ASP:N	2.40	0.84
1:A:1161:PRO:HG2	1:A:1190:LYS:CD	2.08	0.84
2:B:659:PRO:HB3	2:B:661:GLN:HG2	1.57	0.84
4:D:129:THR:O	4:D:133:PHE:CD2	2.31	0.84
7:G:122:PHE:HB3	7:G:131:TYR:HE1	1.41	0.84
5:Q:45:HIS:CE1	5:Q:57:LEU:CD1	2.60	0.84
1:A:95:ILE:HG13	1:A:314:ILE:HD11	1.58	0.83
1:A:322:GLN:OE1	1:A:328:LEU:HB2	1.77	0.83
1:A:1195:LEU:HD21	1:A:1242:ARG:CZ	2.07	0.83
2:B:1108:VAL:HG22	2:B:1109:GLU:H	1.37	0.83
4:D:22:GLU:OE2	7:G:6:LYS:HB2	1.78	0.83
4:D:25:LEU:HD12	7:G:5:LEU:HB2	1.57	0.83
5:E:45:HIS:CE1	5:E:57:LEU:CD1	2.60	0.83
1:M:342:LEU:HD12	1:M:343:ARG:HG3	1.59	0.83
1:M:846:ARG:HH11	1:M:1391:THR:C	1.81	0.83
2:N:166:LEU:O	2:N:169:VAL:HG23	1.77	0.83
6:R:137:SER:OG	6:R:140:GLU:HB2	1.77	0.83
1:A:1174:GLU:OE2	1:A:1242:ARG:CZ	2.26	0.83
2:B:1026:LEU:HB3	2:B:1051:HIS:CD2	2.11	0.83
4:D:67:ARG:NH1	4:D:97:CYS:HG	1.75	0.83
7:G:115:LEU:HD13	7:G:163:THR:HG22	1.60	0.83
1:M:106:GLU:CG	1:M:144:CYS:CB	2.56	0.83
1:M:150:CYS:CB	1:M:176:GLY:C	2.46	0.83
1:M:338:LYS:CG	1:M:339:GLU:H	1.90	0.83
1:M:1083:THR:OG1	1:M:1101:VAL:HG11	1.78	0.83
1:M:1089:TYR:N	1:M:1090:ALA:HB3	1.93	0.83
2:N:363:PHE:CZ	2:N:572:TRP:HB3	2.12	0.83
4:P:99:GLU:O	4:P:124:LEU:CD2	2.27	0.83
7:S:5:LEU:HD11	7:S:50:LEU:HD11	0.88	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:115:LEU:HD13	7:S:163:THR:HG22	1.60	0.83
1:A:120:SER:N	1:A:121:ASN:C	2.30	0.83
1:A:126:ASP:O	1:A:130:TYR:CD2	2.30	0.83
1:A:341:ARG:HA	1:A:345:ASN:HB2	1.58	0.83
1:A:419:ILE:HG23	1:A:425:LYS:HD2	1.59	0.83
1:A:1496:PHE:CG	4:D:29:GLU:HG2	2.12	0.83
1:M:775:ILE:CG1	1:M:1089:TYR:CD2	2.61	0.83
1:M:1183:GLU:O	1:M:1186:GLU:HG2	1.77	0.83
1:M:1276:SER:CA	1:M:1277:ILE:CB	2.46	0.83
1:M:1450:TYR:CD1	7:S:61:ARG:HA	2.12	0.83
7:S:10:LEU:CD2	7:S:35:VAL:HG23	2.08	0.83
7:S:164:MET:HE1	7:S:170:GLY:CA	2.06	0.83
9:U:85:PHE:HB2	9:U:99:LEU:HD21	1.60	0.83
1:A:24:LEU:HD12	2:B:1199:ASN:HA	1.61	0.83
1:A:338:LYS:CG	1:A:339:GLU:H	1.90	0.83
1:A:939:VAL:O	1:A:943:GLU:HG3	1.78	0.83
1:A:1412:VAL:CG1	1:A:1413:GLU:H	1.80	0.83
1:A:1485:PRO:HD2	4:D:43:ARG:HH12	1.41	0.83
7:G:164:MET:HE1	7:G:170:GLY:CA	2.07	0.83
9:I:73:LYS:H	9:I:81:HIS:CD2	1.90	0.83
1:M:836:LYS:HG2	1:M:840:THR:CG2	2.07	0.83
1:M:870:ILE:HD12	1:M:871:GLN:N	1.94	0.83
1:M:1195:LEU:HD21	1:M:1242:ARG:CZ	2.07	0.83
1:M:1450:TYR:O	1:M:1451:LEU:HD23	1.76	0.83
4:P:99:GLU:HA	4:P:124:LEU:HD22	1.60	0.83
7:S:6:LYS:HZ3	7:S:43:TYR:HE1	0.84	0.83
1:A:40:PRO:HB3	1:A:276:ILE:HG22	1.60	0.83
1:A:42:THR:CG2	1:A:55:LEU:HG	2.08	0.83
1:A:521:GLN:HG3	1:A:1074:SER:CB	2.03	0.83
1:A:966:ILE:HD13	1:A:1052:VAL:HG22	1.60	0.83
1:A:1146:LEU:HD12	1:A:1274:LEU:CD2	2.08	0.83
9:I:74:GLU:O	9:I:76:PRO:HD3	1.78	0.83
1:M:208:LEU:O	1:M:209:SER:HB3	1.77	0.83
1:M:1192:SER:H	1:M:1193:PRO:CD	1.88	0.83
1:M:1395:ILE:HD11	1:M:1397:ARG:CB	2.08	0.83
4:P:129:THR:O	4:P:133:PHE:CD2	2.31	0.83
7:S:87:VAL:HG22	7:S:147:LYS:HG2	1.59	0.83
1:A:785:PHE:H	1:A:785:PHE:HD1	1.23	0.83
1:A:1183:GLU:O	1:A:1186:GLU:HG2	1.77	0.83
1:A:1451:LEU:HD21	7:G:62:VAL:CG2	2.07	0.83
4:D:57:LYS:O	4:D:61:TYR:CD2	2.32	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:99:GLU:HA	4:D:124:LEU:HD22	1.59	0.83
7:G:10:LEU:CD2	7:G:35:VAL:HG23	2.08	0.83
1:M:321:LEU:HD22	1:M:325:GLY:CA	2.09	0.83
1:M:345:ASN:O	1:M:349:LYS:HE3	1.77	0.83
2:N:189:ILE:HG13	2:N:189:ILE:O	1.76	0.83
2:N:290:ASP:CA	2:N:292:ASN:CB	2.46	0.83
5:Q:101:THR:HG22	5:Q:126:THR:H	1.44	0.83
1:A:26:PRO:CD	1:A:239:TRP:HD1	1.92	0.83
1:A:95:ILE:HG21	1:A:314:ILE:HG12	1.58	0.83
1:A:271:LYS:HD3	1:A:328:LEU:HG	1.58	0.83
1:A:375:SER:HB3	11:K:2:ASN:ND2	1.91	0.83
1:A:383:PRO:O	1:A:384:GLU:HB3	1.78	0.83
1:A:1089:TYR:CD2	1:A:1089:TYR:O	2.31	0.83
1:A:1089:TYR:N	1:A:1090:ALA:HB3	1.93	0.83
1:A:1403:LEU:HB2	1:A:1425:ASP:OD2	1.79	0.83
2:B:89:MET:HE2	2:B:90:THR:H	1.43	0.83
4:D:11:ALA:HB1	4:D:12:GLN:HB3	1.60	0.83
1:M:939:VAL:O	1:M:943:GLU:HG3	1.78	0.83
1:M:1173:VAL:O	1:M:1177:PHE:CD2	2.30	0.83
1:M:1174:GLU:OE2	1:M:1242:ARG:CZ	2.26	0.83
4:P:26:THR:HG1	4:P:29:GLU:HB3	1.38	0.83
4:P:57:LYS:O	4:P:61:TYR:CD2	2.32	0.83
1:A:33:SER:CB	1:A:84:GLY:HA2	2.09	0.83
1:A:812:ARG:HD3	2:B:714:GLN:O	1.79	0.83
1:A:870:ILE:HD12	1:A:871:GLN:N	1.93	0.83
1:A:1450:TYR:CD1	7:G:60:GLY:O	2.31	0.83
1:M:351:VAL:CG1	1:M:352:ASP:N	2.40	0.83
1:M:383:PRO:O	1:M:384:GLU:HB3	1.78	0.83
1:M:517:ILE:HG12	1:M:640:TRP:HE1	1.44	0.83
2:N:1207:LYS:HG2	2:N:1208:ASN:H	1.42	0.83
11:W:24:SER:HB3	11:W:25:LYS:HB2	1.60	0.83
1:A:183:ARG:CZ	1:A:203:PRO:HB2	2.08	0.83
1:A:321:LEU:HD22	1:A:325:GLY:CA	2.09	0.83
1:A:395:GLN:HG3	1:A:432:LEU:HD12	1.59	0.83
9:I:65:ASP:CG	9:I:68:LEU:HD12	1.99	0.83
9:I:85:PHE:HB2	9:I:99:LEU:HD21	1.60	0.83
1:M:271:LYS:HE2	1:M:328:LEU:CB	2.07	0.83
1:M:432:LEU:CA	1:M:436:TRP:HZ2	1.89	0.83
1:M:770:CYS:O	1:M:771:VAL:CG2	2.26	0.83
2:N:490:ARG:O	2:N:490:ARG:HG3	1.79	0.83
2:N:715:ARG:O	2:N:717:LYS:HD2	1.79	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1089:TYR:O	1:A:1089:TYR:CG	2.31	0.83
2:B:296:MET:SD	2:B:376:LEU:HD13	2.19	0.83
2:B:323:ARG:CB	2:B:324:GLY:HA3	2.08	0.83
2:B:816:ILE:HG12	2:B:1001:ILE:HD11	1.58	0.83
1:M:322:GLN:OE1	1:M:328:LEU:HB2	1.77	0.83
1:M:1104:LEU:HD11	1:M:1108:LEU:CD1	2.09	0.83
2:N:1061:MET:HE3	2:N:1074:VAL:HG11	1.61	0.83
4:P:19:PHE:CD1	7:S:81:ARG:NH1	2.46	0.83
1:A:6:PHE:CD2	1:A:78:ASP:OD2	2.32	0.82
1:A:343:ARG:HE	1:A:1409:GLU:CD	1.82	0.82
1:A:846:ARG:NH1	1:A:1391:THR:CA	2.23	0.82
1:M:709:LYS:CB	1:M:710:PRO:HD2	2.06	0.82
1:M:785:PHE:HD1	1:M:785:PHE:H	1.23	0.82
1:M:1395:ILE:HD12	1:M:1397:ARG:CB	2.05	0.82
1:M:1395:ILE:O	1:M:1395:ILE:HG13	1.76	0.82
2:N:310:ILE:O	2:N:315:ILE:HB	1.79	0.82
6:R:125:ARG:HG2	6:R:135:ASP:OD1	1.78	0.82
1:A:1083:THR:HG23	1:A:1084:LEU:N	1.94	0.82
2:B:34:GLN:HB3	2:B:35:LEU:HB2	1.61	0.82
2:B:310:ILE:O	2:B:315:ILE:HB	1.79	0.82
4:D:99:GLU:O	4:D:124:LEU:CD2	2.28	0.82
11:K:24:SER:HB3	11:K:25:LYS:HB2	1.60	0.82
1:M:41:GLU:HG3	1:M:41:GLU:O	1.77	0.82
1:M:66:GLN:O	1:M:67:PHE:CG	2.32	0.82
1:M:1039:ARG:H	1:M:1039:ARG:HD2	1.44	0.82
2:N:387:PHE:CE2	2:N:503:THR:HG22	2.14	0.82
7:S:122:PHE:HB3	7:S:131:TYR:HE1	1.41	0.82
9:U:65:ASP:CG	9:U:68:LEU:HD12	1.99	0.82
9:U:73:LYS:HG2	9:U:81:HIS:HD2	1.38	0.82
1:A:157:GLY:HA2	1:A:168:ALA:CB	2.10	0.82
1:A:770:CYS:O	1:A:771:VAL:CG2	2.26	0.82
1:A:1282:VAL:O	1:A:1282:VAL:HG12	1.78	0.82
1:A:1398:ALA:HB1	1:A:1405:ARG:NH2	1.94	0.82
2:B:310:ILE:O	2:B:315:ILE:CG2	2.27	0.82
4:D:26:THR:HG1	4:D:29:GLU:HB3	1.38	0.82
1:M:10:SER:CB	2:N:1168:TYR:OH	2.27	0.82
1:M:451:ASN:HB3	1:M:461:MET:HG2	1.60	0.82
1:M:1103:ARG:HG3	1:M:1104:LEU:N	1.93	0.82
1:M:1403:LEU:HB2	1:M:1425:ASP:OD2	1.79	0.82
2:N:34:GLN:HB3	2:N:35:LEU:HB2	1.60	0.82
2:N:296:MET:SD	2:N:376:LEU:HD13	2.19	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:323:ARG:CB	2:N:324:GLY:HA2	2.01	0.82
2:N:401:SER:HA	2:N:404:ARG:NH1	1.93	0.82
2:N:423:GLU:HG2	2:N:424:THR:CG2	2.08	0.82
8:T:93:VAL:HG21	8:T:113:ARG:HD2	1.59	0.82
1:A:806:ILE:HD13	1:A:814:LEU:HG	1.61	0.82
2:B:296:MET:HE3	2:B:372:LEU:HB3	0.85	0.82
4:D:19:PHE:CD1	7:G:81:ARG:NH1	2.46	0.82
1:M:110:TRP:CZ2	1:M:180:PRO:HG3	2.15	0.82
1:M:1083:THR:HG23	1:M:1084:LEU:N	1.94	0.82
2:N:437:ASN:OD1	2:N:441:ASN:HB2	1.79	0.82
3:O:58:PRO:HD2	3:O:61:PHE:CB	2.09	0.82
1:A:709:LYS:CB	1:A:710:PRO:HD2	2.06	0.82
2:B:658:ASP:HB3	2:B:659:PRO:HD2	1.60	0.82
1:M:771:VAL:CG2	1:M:809:SER:HA	2.09	0.82
4:P:11:ALA:HB1	4:P:12:GLN:HB3	1.60	0.82
4:P:84:ARG:HH21	4:P:87:LYS:CE	1.92	0.82
7:S:146:LEU:HD11	7:S:164:MET:SD	2.19	0.82
9:U:74:GLU:O	9:U:76:PRO:HD3	1.79	0.82
1:A:26:PRO:CD	1:A:239:TRP:CD1	2.62	0.82
1:A:66:GLN:O	1:A:67:PHE:CG	2.33	0.82
1:A:148:MET:O	1:A:179:GLN:HA	1.79	0.82
1:A:1404:MET:HG2	1:A:1432:GLU:OE2	1.80	0.82
1:M:382:TYR:CE1	1:M:446:ASP:OD1	2.33	0.82
1:M:1398:ALA:HB1	1:M:1405:ARG:NH2	1.95	0.82
2:N:310:ILE:O	2:N:315:ILE:CG2	2.27	0.82
1:A:41:GLU:HG3	1:A:41:GLU:O	1.77	0.82
1:A:95:ILE:HG21	1:A:314:ILE:CG1	2.10	0.82
1:A:462:MET:HE2	1:A:513:VAL:HA	1.60	0.82
1:A:1170:LYS:CE	1:A:1240:ILE:HD11	2.07	0.82
2:B:660:GLU:O	2:B:661:GLN:HG2	1.79	0.82
1:M:368:ASP:OD2	1:M:649:LYS:HE3	1.80	0.82
1:M:1161:PRO:HG2	1:M:1190:LYS:CD	2.08	0.82
4:P:85:PHE:O	4:P:86:HIS:CG	2.33	0.82
8:T:74:TYR:CE2	8:T:76:MET:HG3	2.14	0.82
9:U:79:HIS:HD2	9:U:80:GLN:HE21	1.28	0.82
1:A:343:ARG:CD	2:B:1121:GLU:OE1	2.26	0.82
2:B:715:ARG:O	2:B:717:LYS:HD2	1.79	0.82
4:D:97:CYS:C	4:D:98:CYS:SG	2.58	0.82
7:G:95:VAL:HG13	7:G:131:TYR:CE2	2.15	0.82
8:H:74:TYR:CE2	8:H:76:MET:HG3	2.14	0.82
4:P:22:GLU:OE2	7:S:6:LYS:HB2	1.79	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:97:CYS:C	4:P:98:CYS:SG	2.58	0.82
1:A:64:ASP:C	1:A:67:PHE:CD1	2.53	0.82
1:A:193:TRP:HZ3	1:A:206:ARG:CB	1.92	0.82
1:A:1444:THR:HG22	2:B:1133:SER:H	1.43	0.82
2:B:106:LEU:HD22	2:B:106:LEU:H	1.44	0.82
2:B:490:ARG:HG3	2:B:490:ARG:O	1.79	0.82
3:C:58:PRO:HD2	3:C:61:PHE:CB	2.09	0.82
1:M:2:SER:HB3	7:S:65:GLY:O	1.78	0.82
1:M:792:HIS:HB2	1:M:817:GLN:NE2	1.93	0.82
2:N:899:ILE:HD12	2:N:899:ILE:O	1.80	0.82
7:S:95:VAL:HG13	7:S:131:TYR:CE2	2.15	0.82
9:U:4:PHE:HE1	9:U:27:LEU:CD2	1.84	0.82
1:A:50:PRO:C	1:A:51:ARG:CG	2.48	0.82
1:A:86:ILE:HG23	1:A:86:ILE:O	1.79	0.82
1:A:836:LYS:HG2	1:A:840:THR:CG2	2.08	0.82
1:A:1110:VAL:O	1:A:1110:VAL:HG12	1.78	0.82
2:B:437:ASN:OD1	2:B:441:ASN:HB2	1.79	0.82
1:M:26:PRO:CD	1:M:239:TRP:CD1	2.62	0.82
1:M:266:ASP:CA	1:M:267:ASP:CB	2.58	0.82
1:M:1020:LEU:HB3	5:Q:200:SER:HB3	1.62	0.82
2:N:206:ASN:H	2:N:227:SER:HB3	1.42	0.82
2:N:215:ALA:HA	2:N:217:SER:HB3	1.60	0.82
2:N:296:MET:HE3	2:N:372:LEU:C	2.01	0.82
1:A:154:LEU:H	1:A:173:GLY:CA	1.93	0.81
1:A:950:PHE:HB3	1:A:951:PRO:HD3	1.62	0.81
1:A:1104:LEU:HD11	1:A:1108:LEU:CD1	2.09	0.81
5:E:101:THR:HG22	5:E:126:THR:H	1.44	0.81
1:M:26:PRO:CD	1:M:239:TRP:HD1	1.92	0.81
1:M:64:ASP:C	1:M:67:PHE:CD1	2.53	0.81
2:N:229:LEU:HD11	2:N:231:ARG:CZ	2.10	0.81
2:N:745:ILE:O	2:N:748:PRO:HD3	1.80	0.81
1:A:10:SER:CB	2:B:1168:TYR:OH	2.27	0.81
1:A:949:ILE:HG13	1:A:950:PHE:HD2	1.45	0.81
1:A:1083:THR:OG1	1:A:1101:VAL:HG11	1.78	0.81
1:A:1103:ARG:HG3	1:A:1104:LEU:N	1.93	0.81
2:B:659:PRO:CA	2:B:660:GLU:C	2.48	0.81
4:D:85:PHE:O	4:D:86:HIS:CG	2.33	0.81
5:E:101:THR:CG2	5:E:126:THR:CG2	2.51	0.81
8:H:7:LEU:HG	8:H:59:ILE:HD11	1.62	0.81
8:H:25:SER:OG	8:H:44:SER:HB3	1.80	0.81
1:M:271:LYS:HB2	1:M:322:GLN:HE22	1.42	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:966:ILE:HD13	1:M:1052:VAL:HG22	1.60	0.81
1:M:1089:TYR:CD2	1:M:1089:TYR:O	2.33	0.81
1:M:1089:TYR:CG	1:M:1089:TYR:O	2.31	0.81
2:N:945:THR:HB	12:X:39:ILE:HD13	1.62	0.81
1:A:120:SER:H	1:A:121:ASN:C	1.83	0.81
1:A:322:GLN:OE1	1:A:328:LEU:HD23	1.80	0.81
1:A:517:ILE:HG12	1:A:640:TRP:HE1	1.44	0.81
1:A:1020:LEU:HB3	5:E:200:SER:HB3	1.62	0.81
1:A:1082:MET:HE3	1:A:1364:PHE:O	1.81	0.81
2:B:307:ALA:CB	2:B:310:ILE:HD11	2.08	0.81
9:I:73:LYS:HG3	9:I:81:HIS:CD2	2.13	0.81
1:M:6:PHE:CD2	1:M:78:ASP:OD2	2.32	0.81
1:M:118:ASP:HB2	1:M:120:SER:OG	1.80	0.81
1:M:318:PRO:O	1:M:319:GLN:HG3	1.80	0.81
1:M:1142:GLU:O	1:M:1144:THR:HG23	1.80	0.81
1:M:1260:ILE:CD1	9:U:30:ARG:NH2	2.44	0.81
1:M:1404:MET:HG2	1:M:1432:GLU:OE2	1.80	0.81
2:N:658:ASP:HB3	2:N:659:PRO:HD2	1.60	0.81
2:N:686:MET:H	2:N:728:THR:HG21	1.45	0.81
2:N:1141:PHE:HD1	2:N:1185:PRO:CG	1.93	0.81
9:U:6:TYR:O	9:U:14:LEU:CG	2.28	0.81
1:A:381:THR:CA	1:A:382:TYR:HB3	2.03	0.81
3:C:65:ARG:HH12	3:C:145:ILE:HA	1.45	0.81
4:D:11:ALA:HB1	4:D:12:GLN:CA	2.10	0.81
7:G:146:LEU:HD11	7:G:164:MET:SD	2.19	0.81
1:M:120:SER:H	1:M:121:ASN:C	1.83	0.81
1:M:886:TYR:HA	1:M:958:PRO:HA	1.61	0.81
1:M:1150:THR:CB	9:U:48:LEU:HD22	2.11	0.81
2:N:220:ALA:O	2:N:221:TYR:HD2	1.63	0.81
2:N:660:GLU:O	2:N:661:GLN:HG2	1.79	0.81
1:A:148:MET:O	1:A:149:VAL:HG23	1.79	0.81
1:A:260:GLY:N	2:B:924:ARG:HD3	1.94	0.81
1:A:778:GLY:O	1:A:1092:VAL:CG2	2.29	0.81
1:A:1119:LEU:CB	1:A:1314:THR:CG2	2.59	0.81
8:H:17:ASP:HA	8:H:18:LYS:HB2	1.63	0.81
1:M:192:SER:HB2	1:M:201:ASP:O	1.80	0.81
1:M:1450:TYR:HE2	6:R:125:ARG:NE	1.78	0.81
2:N:1141:PHE:CD1	2:N:1185:PRO:CG	2.64	0.81
7:S:146:LEU:CG	7:S:164:MET:SD	2.68	0.81
1:A:806:ILE:CD1	1:A:814:LEU:HD21	2.11	0.81
1:A:1282:VAL:HG12	1:A:1285:ILE:HG13	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:423:GLU:HG2	2:B:424:THR:CG2	2.08	0.81
4:D:129:THR:O	4:D:133:PHE:HD2	1.63	0.81
7:G:146:LEU:CG	7:G:164:MET:SD	2.68	0.81
10:J:35:LEU:HA	10:J:38:LEU:HD13	1.62	0.81
1:M:157:GLY:HA2	1:M:168:ALA:CB	2.10	0.81
1:M:949:ILE:HG13	1:M:950:PHE:HD2	1.45	0.81
8:T:17:ASP:HA	8:T:18:LYS:HB2	1.63	0.81
1:A:398:VAL:HG13	1:A:421:LEU:HD11	1.62	0.81
1:M:49:ARG:N	1:M:50:PRO:HD3	1.95	0.81
1:M:86:ILE:HG23	1:M:86:ILE:O	1.79	0.81
1:M:95:ILE:HD12	1:M:187:LEU:HD21	1.60	0.81
1:M:260:GLY:CA	2:N:924:ARG:NE	2.43	0.81
1:M:1282:VAL:HG11	1:M:1285:ILE:CD1	2.11	0.81
3:O:65:ARG:HH12	3:O:145:ILE:HA	1.45	0.81
1:A:118:ASP:HB2	1:A:120:SER:OG	1.80	0.81
1:A:318:PRO:O	1:A:319:GLN:HG3	1.80	0.81
1:M:275:ILE:HG12	1:M:305:HIS:HB3	1.63	0.81
1:M:806:ILE:HD13	1:M:814:LEU:CD2	2.06	0.81
1:M:922:GLU:HB2	1:M:923:ASN:HA	1.63	0.81
1:M:1253:ALA:HB1	1:M:1254:GLU:HA	1.63	0.81
2:N:296:MET:HE3	2:N:372:LEU:CA	2.09	0.81
2:N:1141:PHE:HD1	2:N:1185:PRO:HG3	1.46	0.81
2:N:1148:ARG:HD2	2:N:1181:GLN:HE21	1.44	0.81
8:T:25:SER:OG	8:T:44:SER:HB3	1.80	0.81
1:A:2:SER:HB3	7:G:65:GLY:O	1.81	0.81
1:A:42:THR:O	1:A:43:MET:SD	2.39	0.81
1:A:180:PRO:HB3	1:A:193:TRP:CD1	2.16	0.81
1:A:193:TRP:O	1:A:200:SER:CB	2.29	0.81
1:A:266:ASP:CA	1:A:267:ASP:CB	2.58	0.81
1:A:451:ASN:HB3	1:A:461:MET:HG2	1.60	0.81
2:B:292:ASN:OD1	2:B:297:LEU:HD11	1.80	0.81
9:I:79:HIS:HD2	9:I:80:GLN:HE21	1.28	0.81
1:M:322:GLN:OE1	1:M:328:LEU:HD23	1.80	0.81
1:M:1434:ILE:C	2:N:1141:PHE:HZ	1.85	0.81
1:A:886:TYR:HA	1:A:958:PRO:HA	1.61	0.81
1:A:1146:LEU:CD1	1:A:1274:LEU:HA	2.09	0.81
2:B:229:LEU:HA	2:B:230:GLU:HB2	1.61	0.81
4:D:26:THR:OG1	4:D:29:GLU:CB	2.20	0.81
4:D:61:TYR:CE1	7:G:103:ASN:O	2.33	0.81
5:E:199:THR:H	5:E:200:SER:HA	1.40	0.81
10:J:45:CYS:O	10:J:48:MET:HB2	1.80	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:822:HIS:NE2	2:N:753:SER:CB	2.42	0.81
2:N:328:GLY:O	2:N:329:VAL:CG2	2.29	0.81
5:Q:199:THR:H	5:Q:200:SER:HA	1.41	0.81
7:S:95:VAL:HG13	7:S:131:TYR:CD2	2.16	0.81
7:S:164:MET:HE2	7:S:170:GLY:HA2	1.60	0.81
10:V:35:LEU:HA	10:V:38:LEU:HD13	1.62	0.81
1:A:353:PHE:CD2	1:A:381:THR:O	2.33	0.80
1:A:846:ARG:HH11	1:A:1391:THR:C	1.84	0.80
1:A:1039:ARG:H	1:A:1039:ARG:HD2	1.44	0.80
1:A:1091:GLY:HA3	1:A:1092:VAL:HB	0.84	0.80
2:B:752:GLN:O	2:B:753:SER:HB2	1.80	0.80
1:M:42:THR:O	1:M:43:MET:SD	2.39	0.80
1:M:1112:LYS:H	1:M:1112:LYS:CD	1.94	0.80
1:M:1351:ARG:HB2	1:M:1382:THR:HG21	1.63	0.80
2:N:292:ASN:H	2:N:293:ASP:HB2	1.46	0.80
2:N:323:ARG:HB2	2:N:324:GLY:HA3	1.62	0.80
9:U:8:ILE:HG22	9:U:9:GLU:N	1.97	0.80
1:A:856:VAL:HG22	1:A:1067:VAL:CG2	2.12	0.80
1:A:1177:PHE:O	1:A:1180:PRO:HG2	1.81	0.80
1:A:1260:ILE:CD1	9:I:30:ARG:NH2	2.44	0.80
2:B:212:LYS:HZ2	2:B:381:PRO:HG2	1.45	0.80
2:B:310:ILE:O	2:B:315:ILE:HG21	1.81	0.80
2:B:745:ILE:O	2:B:748:PRO:HD3	1.80	0.80
7:G:133:GLY:HA3	7:G:134:GLU:HB2	1.63	0.80
1:M:963:VAL:HG13	1:M:966:ILE:HD11	1.63	0.80
2:N:292:ASN:OD1	2:N:297:LEU:HD11	1.81	0.80
2:N:406:LEU:HD13	2:N:439:ILE:HG22	1.60	0.80
7:S:14:LEU:HD12	7:S:30:LYS:HZ3	1.45	0.80
1:A:275:ILE:HG12	1:A:305:HIS:HB3	1.63	0.80
1:A:1253:ALA:HB1	1:A:1254:GLU:HA	1.63	0.80
2:B:31:ALA:H	2:B:482:ARG:HH21	1.27	0.80
2:B:855:ILE:HG13	2:B:856:GLY:H	1.46	0.80
4:D:98:CYS:HB3	4:D:99:GLU:OE1	1.81	0.80
1:M:810:TYR:CE2	2:N:751:ASN:O	2.35	0.80
1:M:856:VAL:HG22	1:M:1067:VAL:CG2	2.12	0.80
4:P:11:ALA:HB1	4:P:12:GLN:CA	2.10	0.80
1:A:49:ARG:N	1:A:50:PRO:HD3	1.95	0.80
1:A:202:LEU:HB3	1:A:203:PRO:CD	2.11	0.80
1:A:318:PRO:O	1:A:319:GLN:CG	2.30	0.80
1:A:921:ILE:O	1:A:922:GLU:HB2	1.81	0.80
1:A:1156:HIS:HE1	9:I:42:LYS:HG2	1.46	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1281:GLY:O	1:A:1283:PRO:HD3	1.81	0.80
2:B:945:THR:HB	12:L:39:ILE:HD13	1.62	0.80
3:C:168:HIS:HD2	3:C:170:LYS:H	1.29	0.80
7:G:6:LYS:HZ3	7:G:43:TYR:HE1	0.84	0.80
1:M:102:LYS:O	1:M:105:LEU:HD23	1.81	0.80
1:M:1253:ALA:HB1	1:M:1254:GLU:CA	2.12	0.80
2:N:378:ARG:HA	9:U:52:ASN:HD21	1.44	0.80
2:N:752:GLN:O	2:N:753:SER:HB2	1.80	0.80
3:O:67:GLY:HA3	3:O:170:LYS:HZ1	1.47	0.80
1:A:120:SER:N	1:A:122:PRO:N	2.30	0.80
1:A:646:GLU:H	1:A:648:CYS:CA	1.93	0.80
1:A:810:TYR:HB3	2:B:750:HIS:O	1.82	0.80
1:A:1465:VAL:HG12	1:A:1466:PRO:CA	2.09	0.80
2:B:220:ALA:O	2:B:221:TYR:HD2	1.63	0.80
2:B:323:ARG:HB3	2:B:324:GLY:HA3	1.62	0.80
2:B:899:ILE:O	2:B:899:ILE:HD12	1.80	0.80
1:M:94:HIS:O	1:M:98:LEU:CG	2.30	0.80
1:M:1119:LEU:CB	1:M:1314:THR:CG2	2.59	0.80
4:P:98:CYS:HB3	4:P:99:GLU:OE1	1.82	0.80
5:Q:101:THR:CG2	5:Q:126:THR:CG2	2.51	0.80
8:T:7:LEU:HG	8:T:59:ILE:HD11	1.62	0.80
1:A:66:GLN:C	1:A:67:PHE:CD1	2.55	0.80
1:A:181:THR:HG22	1:A:182:ILE:H	1.44	0.80
1:A:785:PHE:CZ	1:A:791:PRO:HG3	2.17	0.80
1:M:50:PRO:C	1:M:51:ARG:HG2	1.98	0.80
1:M:1119:LEU:CG	1:M:1314:THR:CG2	2.59	0.80
1:M:1450:TYR:CD1	7:S:60:GLY:O	2.35	0.80
8:T:93:VAL:HB	8:T:104:ILE:HD11	1.64	0.80
1:A:177:ALA:CA	1:A:178:ALA:CB	2.48	0.80
2:B:229:LEU:HD11	2:B:231:ARG:CZ	2.10	0.80
8:H:7:LEU:HB2	8:H:59:ILE:HG12	1.63	0.80
1:M:40:PRO:HB3	1:M:276:ILE:HG22	1.60	0.80
10:V:45:CYS:O	10:V:48:MET:HB2	1.80	0.80
1:A:1119:LEU:CG	1:A:1314:THR:CG2	2.59	0.80
1:A:1166:ILE:HD13	1:A:1171:ASP:OD2	1.82	0.80
2:B:991:SER:OG	2:B:1061:MET:HA	1.81	0.80
5:E:27:TYR:HA	5:E:63:PRO:HA	1.62	0.80
6:F:125:ARG:HG2	6:F:135:ASP:OD1	1.82	0.80
7:G:3:PHE:CE1	7:G:80:TRP:CD1	2.70	0.80
1:M:266:ASP:O	1:M:269:THR:CG2	2.30	0.80
1:M:1164:THR:O	1:M:1165:VAL:CG2	2.30	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:231:ARG:HH12	2:N:234:ARG:HD2	1.47	0.80
5:Q:27:TYR:HA	5:Q:63:PRO:HA	1.62	0.80
1:A:1100:GLY:O	1:A:1102:PRO:CD	2.30	0.80
1:A:1112:LYS:HD3	1:A:1112:LYS:N	1.96	0.80
1:A:1115:LYS:O	1:A:1117:PRO:CD	2.30	0.80
1:A:1228:PHE:CD2	1:A:1246:ILE:HD11	2.17	0.80
1:A:1351:ARG:HB2	1:A:1382:THR:HG21	1.63	0.80
1:A:1462:GLY:O	1:A:1463:THR:CG2	2.30	0.80
2:B:215:ALA:HA	2:B:217:SER:HB3	1.60	0.80
2:B:686:MET:H	2:B:728:THR:HG21	1.45	0.80
4:D:13:LEU:O	4:D:14:LYS:HG2	1.81	0.80
4:D:19:PHE:HD1	7:G:81:ARG:NH1	1.80	0.80
4:D:27:VAL:HG21	4:D:95:THR:HG22	1.62	0.80
7:G:164:MET:HE2	7:G:170:GLY:HA2	1.62	0.80
1:M:646:GLU:H	1:M:648:CYS:CA	1.93	0.80
2:N:752:GLN:O	2:N:754:PRO:CD	2.30	0.80
4:P:69:LYS:O	4:P:70:THR:CG2	2.30	0.80
4:P:96:LEU:C	4:P:97:CYS:SG	2.60	0.80
1:A:343:ARG:HG2	2:B:1121:GLU:OE1	1.80	0.80
1:A:419:ILE:HG22	1:A:425:LYS:CD	2.10	0.80
1:A:645:PRO:O	1:A:646:GLU:CG	2.30	0.80
1:A:836:LYS:HD2	1:A:1084:LEU:HD11	1.63	0.80
7:G:59:LYS:CB	7:G:60:GLY:CA	2.44	0.80
8:H:93:VAL:HB	8:H:104:ILE:HD11	1.64	0.80
1:M:177:ALA:HB3	1:M:179:GLN:NE2	1.96	0.80
1:M:645:PRO:CA	1:M:648:CYS:HB3	2.12	0.80
1:M:1228:PHE:CD2	1:M:1246:ILE:HD11	2.17	0.80
1:M:1281:GLY:O	1:M:1283:PRO:HD3	1.81	0.80
2:N:855:ILE:HG13	2:N:856:GLY:H	1.46	0.80
4:P:80:ILE:CD1	4:P:130:LEU:CD1	2.59	0.80
7:S:59:LYS:CG	7:S:60:GLY:HA2	2.12	0.80
9:U:101:TYR:CB	9:U:110:PHE:CZ	2.65	0.80
11:W:118:VAL:O	11:W:119:GLU:CG	2.30	0.80
1:A:178:ALA:O	1:A:179:GLN:CG	2.30	0.79
1:A:263:ARG:O	1:A:263:ARG:CD	2.30	0.79
1:A:266:ASP:O	1:A:269:THR:CG2	2.30	0.79
1:A:1283:PRO:O	1:A:1284:ASN:HB2	1.80	0.79
2:B:310:ILE:O	2:B:315:ILE:CB	2.30	0.79
2:B:660:GLU:O	2:B:661:GLN:CG	2.30	0.79
4:D:24:MET:CG	7:G:4:PHE:CZ	2.64	0.79
7:G:59:LYS:CG	7:G:60:GLY:HA2	2.12	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:56:ILE:H	10:J:56:ILE:HD12	1.46	0.79
1:M:66:GLN:C	1:M:67:PHE:CD1	2.55	0.79
1:M:101:ILE:HD13	1:M:240:MET:HE3	1.64	0.79
1:M:118:ASP:CB	1:M:120:SER:OG	2.30	0.79
1:M:318:PRO:O	1:M:319:GLN:CG	2.30	0.79
1:M:1112:LYS:HD3	1:M:1112:LYS:N	1.96	0.79
2:N:89:MET:HA	2:N:89:MET:HE3	1.64	0.79
2:N:310:ILE:O	2:N:315:ILE:HG21	1.81	0.79
3:O:168:HIS:HD2	3:O:170:LYS:H	1.28	0.79
4:P:129:THR:O	4:P:133:PHE:HD2	1.63	0.79
1:A:120:SER:CB	1:A:121:ASN:O	2.30	0.79
1:A:1081:GLN:NE2	1:A:1368:TYR:HE2	1.80	0.79
1:A:1278:SER:O	1:A:1279:LEU:HB2	1.80	0.79
2:B:784:ILE:HD11	2:B:843:ILE:HD12	1.65	0.79
4:D:43:ARG:O	4:D:44:GLU:CG	2.30	0.79
1:M:15:ARG:CD	1:M:1438:GLN:HE21	1.95	0.79
1:M:48:GLN:C	1:M:50:PRO:HD2	2.03	0.79
1:M:94:HIS:O	1:M:98:LEU:CB	2.30	0.79
1:M:148:MET:O	1:M:149:VAL:CG2	2.30	0.79
1:M:1110:VAL:O	1:M:1110:VAL:HG12	1.78	0.79
1:M:1450:TYR:CE1	7:S:61:ARG:CB	2.64	0.79
2:N:991:SER:OG	2:N:1061:MET:HA	1.81	0.79
1:A:242:ILE:HD13	1:A:245:LEU:HD12	1.64	0.79
1:A:430:ILE:O	1:A:430:ILE:HG12	1.82	0.79
1:A:1253:ALA:HB1	1:A:1254:GLU:CA	2.12	0.79
1:A:1390:ILE:HD13	1:A:1395:ILE:HG22	1.64	0.79
4:D:25:LEU:HD23	4:D:29:GLU:OE1	1.83	0.79
9:I:101:TYR:CB	9:I:110:PHE:CZ	2.65	0.79
1:M:2:SER:CB	7:S:65:GLY:O	2.28	0.79
1:M:1018:THR:O	1:M:1022:GLN:HG3	1.82	0.79
1:M:1177:PHE:O	1:M:1180:PRO:HG2	1.81	0.79
2:N:106:LEU:H	2:N:106:LEU:HD22	1.44	0.79
4:P:11:ALA:CB	4:P:12:GLN:CB	2.60	0.79
4:P:27:VAL:HG21	4:P:95:THR:HG22	1.62	0.79
10:V:56:ILE:H	10:V:56:ILE:HD12	1.46	0.79
1:A:195:ARG:CB	1:A:196:GLY:CA	2.61	0.79
1:A:645:PRO:CA	1:A:648:CYS:HB3	2.12	0.79
1:A:710:PRO:O	1:A:711:GLU:HB2	1.83	0.79
1:A:1018:THR:O	1:A:1022:GLN:HG3	1.82	0.79
2:B:343:GLN:O	2:B:344:LYS:CG	2.30	0.79
2:B:752:GLN:O	2:B:754:PRO:CD	2.30	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:130:LEU:CB	3:C:131:GLY:HA3	2.00	0.79
5:E:199:THR:N	5:E:200:SER:CA	2.41	0.79
7:G:95:VAL:HG13	7:G:131:TYR:CD2	2.16	0.79
1:M:311:ASP:HB3	1:M:314:ILE:HG13	1.64	0.79
1:M:664:LEU:HG	2:N:1063:HIS:HE1	1.47	0.79
1:M:950:PHE:HB3	1:M:951:PRO:HD3	1.62	0.79
1:M:1260:ILE:O	1:M:1260:ILE:CG1	2.30	0.79
1:M:1282:VAL:O	1:M:1282:VAL:HG12	1.82	0.79
2:N:307:ALA:CB	2:N:310:ILE:HD11	2.08	0.79
1:A:148:MET:O	1:A:149:VAL:CG2	2.30	0.79
1:A:368:ASP:OD2	1:A:649:LYS:HE3	1.82	0.79
9:I:6:TYR:O	9:I:14:LEU:CD2	2.30	0.79
1:M:573:LYS:HB2	1:M:574:PRO:HD2	1.65	0.79
1:M:785:PHE:CZ	1:M:791:PRO:HG3	2.17	0.79
1:M:856:VAL:CG2	1:M:1067:VAL:CG2	2.61	0.79
1:M:1100:GLY:O	1:M:1102:PRO:CD	2.30	0.79
2:N:343:GLN:O	2:N:344:LYS:CG	2.30	0.79
2:N:401:SER:O	2:N:405:MET:HG2	1.82	0.79
2:N:660:GLU:O	2:N:661:GLN:CG	2.30	0.79
4:P:13:LEU:O	4:P:14:LYS:HG2	1.81	0.79
1:A:64:ASP:O	1:A:67:PHE:CD1	2.36	0.79
1:A:250:PRO:HA	1:A:253:ARG:HG3	1.64	0.79
1:A:335:LEU:N	1:A:335:LEU:CD2	2.45	0.79
1:A:922:GLU:HB2	1:A:923:ASN:HA	1.63	0.79
1:A:1094:SER:O	1:A:1095:LYS:CG	2.31	0.79
1:A:1112:LYS:H	1:A:1112:LYS:CD	1.94	0.79
2:B:290:ASP:CB	2:B:292:ASN:HB2	2.10	0.79
1:M:81:GLY:HA3	1:M:249:PRO:CB	2.12	0.79
1:M:178:ALA:O	1:M:180:PRO:HD3	1.82	0.79
1:M:192:SER:CB	1:M:202:LEU:O	2.29	0.79
1:M:1094:SER:O	1:M:1095:LYS:CG	2.30	0.79
1:M:1504:ALA:O	1:M:1507:PRO:CG	2.30	0.79
2:N:31:ALA:H	2:N:482:ARG:HH21	1.27	0.79
2:N:508:VAL:HG13	2:N:510:PRO:CA	2.13	0.79
4:P:26:THR:O	4:P:30:ALA:HB2	1.83	0.79
7:S:3:PHE:CE1	7:S:80:TRP:CD1	2.70	0.79
1:A:48:GLN:C	1:A:50:PRO:HD2	2.03	0.79
1:A:120:SER:CB	1:A:121:ASN:C	2.51	0.79
1:A:254:PRO:CB	2:B:1103:LEU:HD21	2.13	0.79
1:A:311:ASP:HB3	1:A:314:ILE:HG13	1.65	0.79
1:A:1442:MET:HG3	2:B:1128:ILE:HG23	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:220:ALA:O	2:B:221:TYR:CD2	2.35	0.79
1:M:59:ARG:N	1:M:60:LEU:HA	1.93	0.79
1:M:179:GLN:N	1:M:180:PRO:CD	2.38	0.79
1:M:368:ASP:OD2	1:M:649:LYS:CE	2.31	0.79
1:M:1450:TYR:HE1	7:S:61:ARG:CB	1.95	0.79
2:N:341:ILE:HG22	2:N:346:LEU:HD23	1.64	0.79
2:N:921:HIS:HB3	2:N:922:ALA:HB2	1.64	0.79
1:A:177:ALA:HA	1:A:178:ALA:CB	2.12	0.79
2:B:341:ILE:HG22	2:B:346:LEU:HD23	1.64	0.79
3:C:130:LEU:HB3	3:C:131:GLY:CA	2.13	0.79
9:I:72:ASP:HA	9:I:81:HIS:NE2	1.98	0.79
1:M:250:PRO:HA	1:M:253:ARG:HG3	1.64	0.79
1:M:592:ILE:HG21	1:M:639:ILE:HG22	1.64	0.79
1:M:645:PRO:O	1:M:646:GLU:CG	2.30	0.79
1:M:714:MET:HB3	1:M:715:THR:HA	1.64	0.79
9:U:73:LYS:HG3	9:U:81:HIS:CD2	2.12	0.79
1:A:42:THR:CG2	1:A:55:LEU:CG	2.61	0.79
1:A:94:HIS:O	1:A:98:LEU:CB	2.30	0.79
1:A:161:PHE:CD2	1:A:165:ASN:ND2	2.51	0.79
1:A:314:ILE:O	1:A:314:ILE:CG2	2.31	0.79
1:A:1164:THR:O	1:A:1165:VAL:CG2	2.30	0.79
4:D:58:THR:O	4:D:62:PHE:CD2	2.36	0.79
4:D:125:ASP:O	4:D:129:THR:HG23	1.82	0.79
7:G:150:GLY:O	7:G:160:ALA:CB	2.30	0.79
11:K:118:VAL:O	11:K:119:GLU:CG	2.30	0.79
1:M:12:PRO:O	1:M:13:LEU:CD2	2.31	0.79
1:M:81:GLY:HA3	1:M:249:PRO:HG2	1.62	0.79
1:M:83:PHE:CZ	2:N:1196:MET:CB	2.63	0.79
1:M:342:LEU:O	1:M:347:MET:HG2	1.82	0.79
1:M:1146:LEU:HD12	1:M:1274:LEU:CA	2.13	0.79
3:O:82:VAL:O	3:O:82:VAL:CG1	2.31	0.79
4:P:58:THR:O	4:P:62:PHE:CD2	2.36	0.79
1:A:846:ARG:HG3	1:A:1390:ILE:HG22	1.64	0.79
1:A:1496:PHE:CG	4:D:29:GLU:CG	2.65	0.79
7:G:138:ILE:HG12	7:G:171:VAL:HG22	1.65	0.79
9:I:8:ILE:HG22	9:I:9:GLU:N	1.96	0.79
1:M:120:SER:N	1:M:122:PRO:N	2.30	0.79
1:M:314:ILE:O	1:M:314:ILE:CG2	2.31	0.79
1:M:335:LEU:N	1:M:335:LEU:CD2	2.45	0.79
1:M:398:VAL:HG13	1:M:421:LEU:HD11	1.62	0.79
2:N:229:LEU:HA	2:N:230:GLU:HB2	1.61	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:45:HIS:CE1	5:Q:57:LEU:HD12	2.18	0.79
7:S:133:GLY:HA3	7:S:134:GLU:HB2	1.64	0.79
8:T:70:GLU:OE1	8:T:70:GLU:CA	2.30	0.79
1:A:26:PRO:HD3	1:A:239:TRP:HD1	1.47	0.78
1:A:331:ILE:O	1:A:335:LEU:CD2	2.32	0.78
1:A:336:LYS:O	1:A:336:LYS:CG	2.30	0.78
1:A:1082:MET:CE	1:A:1364:PHE:O	2.31	0.78
1:A:1474:GLY:O	1:A:1475:THR:CG2	2.31	0.78
1:M:149:VAL:CA	1:M:179:GLN:HG2	2.11	0.78
1:M:242:ILE:HD13	1:M:245:LEU:HD12	1.64	0.78
1:M:836:LYS:HD2	1:M:1084:LEU:HD11	1.64	0.78
1:M:1434:ILE:C	2:N:1141:PHE:CZ	2.56	0.78
2:N:155:ILE:CD1	2:N:403:PHE:HE1	1.94	0.78
2:N:281:ARG:HA	9:U:6:TYR:CE1	2.19	0.78
4:P:47:GLY:O	4:P:48:GLU:CB	2.31	0.78
7:S:59:LYS:HB3	7:S:60:GLY:HA3	1.65	0.78
7:S:138:ILE:HG12	7:S:171:VAL:HG22	1.65	0.78
1:A:15:ARG:CD	1:A:1438:GLN:HE21	1.95	0.78
1:A:1395:ILE:HG13	1:A:1395:ILE:O	1.83	0.78
1:M:120:SER:CB	1:M:121:ASN:O	2.30	0.78
1:M:263:ARG:O	1:M:263:ARG:CD	2.30	0.78
1:M:1082:MET:CE	1:M:1364:PHE:O	2.31	0.78
2:N:206:ASN:H	2:N:227:SER:CB	1.96	0.78
2:N:220:ALA:O	2:N:221:TYR:CD2	2.35	0.78
4:P:25:LEU:HD23	4:P:29:GLU:OE1	1.83	0.78
4:P:43:ARG:O	4:P:44:GLU:CG	2.30	0.78
8:T:7:LEU:HB2	8:T:59:ILE:HG12	1.63	0.78
1:A:94:HIS:O	1:A:98:LEU:CG	2.30	0.78
1:A:180:PRO:HG3	1:A:193:TRP:NE1	1.98	0.78
1:A:592:ILE:HD13	1:A:592:ILE:H	1.49	0.78
1:A:963:VAL:HG13	1:A:966:ILE:HD11	1.64	0.78
2:B:633:GLU:HG3	2:B:641:ARG:HH22	1.48	0.78
1:M:664:LEU:HD23	1:M:665:HIS:CE1	2.18	0.78
2:N:1180:SER:HB3	2:N:1209:HIS:CD2	2.17	0.78
7:S:150:GLY:O	7:S:160:ALA:CB	2.30	0.78
7:S:151:THR:HG22	7:S:160:ALA:HB2	1.65	0.78
1:A:118:ASP:CB	1:A:120:SER:OG	2.30	0.78
1:A:1065:GLU:O	1:A:1066:MET:HB2	1.83	0.78
2:B:231:ARG:HH12	2:B:234:ARG:HD2	1.47	0.78
2:B:281:ARG:HA	9:I:6:TYR:CE1	2.18	0.78
2:B:408:ARG:O	2:B:412:ARG:HG3	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:508:VAL:HG13	2:B:510:PRO:CA	2.13	0.78
3:C:82:VAL:O	3:C:82:VAL:CG1	2.31	0.78
5:E:45:HIS:CE1	5:E:57:LEU:HD12	2.18	0.78
1:M:26:PRO:HD3	1:M:239:TRP:HD1	1.47	0.78
1:M:161:PHE:CD2	1:M:165:ASN:ND2	2.51	0.78
1:M:176:GLY:O	1:M:177:ALA:CB	2.32	0.78
1:M:1150:THR:O	1:M:1151:SER:CB	2.32	0.78
2:N:328:GLY:O	2:N:329:VAL:CG1	2.30	0.78
3:O:212:GLU:HB2	3:O:213:PRO:CA	2.13	0.78
1:A:183:ARG:NH1	1:A:203:PRO:HB2	1.96	0.78
1:A:664:LEU:HD23	1:A:665:HIS:CE1	2.18	0.78
1:A:714:MET:HB3	1:A:715:THR:HA	1.64	0.78
1:A:775:ILE:O	1:A:776:VAL:CG1	2.30	0.78
1:A:778:GLY:CA	1:A:1091:GLY:C	2.51	0.78
1:A:1153:THR:OG1	9:I:46:HIS:HB2	1.83	0.78
2:B:273:ARG:HD2	2:B:310:ILE:HD12	0.78	0.78
1:M:23:ILE:HD11	1:M:1420:ALA:HA	0.85	0.78
1:M:331:ILE:O	1:M:335:LEU:CD2	2.32	0.78
1:M:380:LEU:HD13	1:M:497:VAL:CG2	2.13	0.78
1:M:710:PRO:O	1:M:711:GLU:HB2	1.83	0.78
1:M:730:GLN:CA	1:M:733:ASP:OD1	2.31	0.78
1:M:921:ILE:O	1:M:922:GLU:HB2	1.81	0.78
1:A:856:VAL:CG2	1:A:1067:VAL:CG2	2.61	0.78
1:A:1157:TYR:HD2	9:I:43:VAL:HG21	1.49	0.78
3:C:212:GLU:HB2	3:C:213:PRO:CA	2.13	0.78
4:D:96:LEU:C	4:D:97:CYS:SG	2.60	0.78
1:M:110:TRP:CZ2	1:M:180:PRO:CG	2.67	0.78
1:M:592:ILE:H	1:M:592:ILE:HD13	1.49	0.78
1:M:857:ARG:HH11	1:M:857:ARG:HG3	1.48	0.78
1:M:1121:ILE:HG23	1:M:1333:THR:HG22	1.65	0.78
4:P:99:GLU:HA	4:P:124:LEU:CD2	2.13	0.78
4:P:125:ASP:O	4:P:129:THR:HG23	1.82	0.78
1:A:40:PRO:HB3	1:A:276:ILE:CG2	2.13	0.78
1:A:195:ARG:HG3	1:A:196:GLY:HA2	1.63	0.78
1:A:1121:ILE:HG23	1:A:1333:THR:HG22	1.66	0.78
2:B:655:TYR:O	2:B:656:ASP:HB2	1.84	0.78
4:D:80:ILE:CD1	4:D:130:LEU:CD1	2.60	0.78
11:K:14:GLY:CA	1:M:429:ASP:HB2	2.07	0.78
1:M:120:SER:CB	1:M:121:ASN:C	2.51	0.78
1:M:311:ASP:CB	1:M:314:ILE:HG13	2.13	0.78
1:M:342:LEU:HD12	1:M:343:ARG:CG	2.12	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1005:ALA:O	2:N:1006:ILE:HD13	1.84	0.78
9:U:72:ASP:HA	9:U:81:HIS:NE2	1.98	0.78
1:A:161:PHE:O	1:A:166:PRO:CB	2.30	0.78
1:A:351:VAL:HG12	1:A:352:ASP:N	1.99	0.78
8:H:63:LEU:O	8:H:63:LEU:CD2	2.30	0.78
1:M:1082:MET:HG3	1:M:1362:ILE:HA	1.66	0.78
1:M:1139:THR:OG1	1:M:1208:LYS:HG2	1.82	0.78
1:M:1328:VAL:HG13	1:M:1329:ASP:HA	1.66	0.78
2:N:273:ARG:HD2	2:N:310:ILE:HD12	0.78	0.78
1:A:12:PRO:O	1:A:13:LEU:CD2	2.31	0.78
1:A:81:GLY:HA3	1:A:249:PRO:CB	2.13	0.78
1:A:117:ILE:HG22	1:A:118:ASP:N	1.98	0.78
1:A:558:TRP:HH2	11:K:61:LYS:HE2	1.48	0.78
1:A:573:LYS:HB2	1:A:574:PRO:HD2	1.65	0.78
1:A:664:LEU:HG	2:B:1063:HIS:HE1	1.47	0.78
2:B:296:MET:CE	2:B:372:LEU:C	2.52	0.78
2:B:660:GLU:O	2:B:661:GLN:CB	2.31	0.78
2:B:1005:ALA:O	2:B:1006:ILE:HD13	1.84	0.78
2:B:1180:SER:HB3	2:B:1209:HIS:CD2	2.17	0.78
3:C:210:TRP:O	3:C:211:GLU:HG3	1.84	0.78
5:E:175:LEU:HD11	5:E:187:ARG:HE	1.49	0.78
1:M:64:ASP:O	1:M:67:PHE:CD1	2.36	0.78
1:M:336:LYS:O	1:M:336:LYS:CG	2.30	0.78
1:M:1115:LYS:O	1:M:1117:PRO:CD	2.30	0.78
2:N:660:GLU:O	2:N:661:GLN:CB	2.31	0.78
4:P:84:ARG:NH2	4:P:87:LYS:HE3	1.98	0.78
1:A:395:GLN:CG	1:A:432:LEU:HD12	2.13	0.78
1:A:585:SER:HB2	1:A:617:GLU:HA	1.65	0.78
2:B:921:HIS:HB3	2:B:922:ALA:HB2	1.64	0.78
4:D:11:ALA:HB1	4:D:12:GLN:CB	2.14	0.78
7:G:115:LEU:HD22	7:G:163:THR:HG22	1.66	0.78
7:G:151:THR:HG22	7:G:160:ALA:HB2	1.66	0.78
1:M:585:SER:HB2	1:M:617:GLU:HA	1.65	0.78
2:N:310:ILE:O	2:N:315:ILE:CB	2.31	0.78
2:N:429:ASN:O	2:N:430:LEU:CB	2.32	0.78
2:N:633:GLU:HG3	2:N:641:ARG:HH22	1.48	0.78
4:P:61:TYR:CE1	7:S:103:ASN:O	2.33	0.78
1:A:919:ASN:ND2	1:A:919:ASN:H	1.82	0.77
4:D:69:LYS:O	4:D:70:THR:CG2	2.30	0.77
1:M:207:LEU:HD22	1:M:207:LEU:N	1.97	0.77
1:M:457:HIS:CG	1:M:1077:GLU:OE2	2.36	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1165:VAL:O	1:M:1166:ILE:CG1	2.33	0.77
2:N:378:ARG:HG2	9:U:52:ASN:HD22	1.45	0.77
1:A:2:SER:HB2	7:G:65:GLY:HA3	1.63	0.77
1:A:48:GLN:CG	1:A:50:PRO:CG	2.61	0.77
1:A:311:ASP:CB	1:A:314:ILE:HG13	2.14	0.77
1:A:579:THR:HG23	1:A:582:GLN:HB2	1.65	0.77
1:A:1165:VAL:O	1:A:1166:ILE:CG1	2.33	0.77
2:B:296:MET:HE3	2:B:372:LEU:CA	2.13	0.77
2:B:329:VAL:H	2:B:330:THR:HA	1.47	0.77
2:B:655:TYR:O	2:B:656:ASP:CB	2.31	0.77
7:G:100:PHE:HB2	7:G:111:VAL:HG13	1.57	0.77
1:M:267:ASP:N	1:M:268:LEU:C	2.38	0.77
1:M:337:GLY:CA	1:M:338:LYS:O	2.32	0.77
1:M:1166:ILE:HD13	1:M:1171:ASP:OD2	1.82	0.77
2:N:454:ASP:OD1	2:N:455:GLN:CA	2.30	0.77
2:N:488:ILE:CG2	2:N:489:GLY:CA	2.49	0.77
1:A:33:SER:HB2	1:A:84:GLY:CA	2.12	0.77
1:A:81:GLY:HA3	1:A:249:PRO:HG2	1.62	0.77
1:A:857:ARG:HH11	1:A:857:ARG:HG3	1.48	0.77
7:G:100:PHE:CB	7:G:111:VAL:HG11	2.07	0.77
9:I:79:HIS:O	9:I:80:GLN:CB	2.31	0.77
1:M:2:SER:HB2	7:S:65:GLY:HA3	1.66	0.77
1:M:351:VAL:HG12	1:M:352:ASP:N	1.99	0.77
2:N:296:MET:CE	2:N:372:LEU:C	2.52	0.77
2:N:641:ARG:H	2:N:644:HIS:HD2	1.30	0.77
5:Q:175:LEU:HD11	5:Q:187:ARG:HE	1.49	0.77
1:A:785:PHE:HZ	1:A:791:PRO:HG3	1.49	0.77
1:A:1071:ALA:CB	1:A:1373:HIS:HD2	1.85	0.77
1:A:1176:PHE:O	1:A:1180:PRO:CD	2.30	0.77
1:A:1496:PHE:CE2	4:D:33:LEU:CD2	2.68	0.77
4:D:26:THR:O	4:D:30:ALA:HB2	1.83	0.77
5:E:198:GLU:CB	5:E:199:THR:HA	2.10	0.77
7:G:144:VAL:CG1	7:G:164:MET:HE1	2.15	0.77
1:M:42:THR:CG2	1:M:55:LEU:CG	2.61	0.77
1:M:48:GLN:CG	1:M:50:PRO:CD	2.63	0.77
1:M:97:PHE:HZ	2:N:1200:ILE:CG2	1.97	0.77
1:M:102:LYS:CD	1:M:189:LEU:HD21	2.14	0.77
1:M:155:SER:CB	1:M:169:ASN:HA	2.15	0.77
1:M:1074:SER:O	1:M:1078:PRO:CD	2.30	0.77
2:N:211:PHE:CZ	2:N:384:ARG:NH1	2.51	0.77
4:P:51:MET:CE	4:P:55:MET:CE	2.38	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ARG:N	1:A:60:LEU:HA	1.93	0.77
1:A:120:SER:OG	1:A:121:ASN:CB	2.30	0.77
1:A:672:ILE:O	1:A:675:THR:HG22	1.84	0.77
1:A:1082:MET:HG3	1:A:1362:ILE:HA	1.66	0.77
1:A:1466:PRO:O	1:A:1469:ALA:HB3	1.84	0.77
7:G:80:TRP:CZ3	7:G:107:LEU:HB2	2.18	0.77
8:H:70:GLU:OE1	8:H:70:GLU:CA	2.30	0.77
10:J:42:ARG:HG3	10:J:42:ARG:NH1	1.95	0.77
1:M:177:ALA:CB	1:M:179:GLN:CG	2.51	0.77
1:M:338:LYS:HG3	1:M:343:ARG:NE	1.98	0.77
1:M:714:MET:CB	1:M:715:THR:HA	2.14	0.77
1:M:919:ASN:ND2	1:M:919:ASN:H	1.82	0.77
2:N:330:THR:O	2:N:334:ARG:CB	2.32	0.77
9:U:50:SER:O	9:U:51:SER:HB3	1.84	0.77
1:A:101:ILE:HD11	1:A:217:PHE:HE2	1.49	0.77
1:A:267:ASP:N	1:A:268:LEU:C	2.38	0.77
1:A:1290:MET:HG3	1:A:1310:TRP:HE3	1.49	0.77
1:M:56:LEU:C	1:M:56:LEU:HD12	2.05	0.77
1:M:182:ILE:HG23	1:M:190:TRP:O	1.84	0.77
1:M:341:ARG:HH12	2:N:1190:LEU:HB3	1.48	0.77
2:N:655:TYR:O	2:N:656:ASP:HB2	1.84	0.77
2:N:656:ASP:O	2:N:657:ILE:CG2	2.32	0.77
4:P:19:PHE:HD1	7:S:81:ARG:NH1	1.80	0.77
1:A:350:ARG:HA	2:B:1118:ARG:HA	1.66	0.77
1:A:1083:THR:HG23	1:A:1084:LEU:H	1.50	0.77
1:M:105:LEU:O	1:M:106:GLU:CB	2.33	0.77
1:M:1065:GLU:O	1:M:1066:MET:HB2	1.83	0.77
1:M:1170:LYS:CE	1:M:1240:ILE:CD1	2.60	0.77
2:N:871:THR:O	2:N:872:LEU:HD23	1.85	0.77
3:O:249:LEU:H	3:O:249:LEU:CD1	1.98	0.77
4:P:58:THR:O	4:P:62:PHE:HD2	1.68	0.77
1:A:6:PHE:C	1:A:8:PRO:HD3	2.05	0.77
1:A:83:PHE:CZ	2:B:1196:MET:CB	2.63	0.77
1:A:573:LYS:HE2	8:H:74:TYR:CZ	2.20	0.77
1:A:1461:LEU:CB	1:A:1462:GLY:O	2.33	0.77
9:I:50:SER:O	9:I:51:SER:HB3	1.84	0.77
1:M:40:PRO:HB3	1:M:276:ILE:CG2	2.13	0.77
1:M:208:LEU:CD1	1:M:208:LEU:N	2.30	0.77
1:M:1081:GLN:NE2	1:M:1368:TYR:HE2	1.80	0.77
1:M:1450:TYR:CD1	7:S:61:ARG:CA	2.67	0.77
2:N:512:GLU:O	2:N:512:GLU:HG2	1.85	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:907:ILE:HD13	2:N:924:ARG:HH21	1.49	0.77
4:P:80:ILE:HD11	4:P:130:LEU:CD1	2.15	0.77
1:A:714:MET:CB	1:A:715:THR:HA	2.14	0.77
1:A:1328:VAL:HG13	1:A:1329:ASP:HA	1.66	0.77
2:B:871:THR:O	2:B:872:LEU:HD23	1.85	0.77
1:M:244:VAL:HG12	1:M:244:VAL:O	1.84	0.77
1:M:558:TRP:HH2	11:W:61:LYS:HE2	1.48	0.77
1:M:1283:PRO:O	1:M:1284:ASN:HB2	1.84	0.77
2:N:232:GLY:O	2:N:233:SER:HB3	1.84	0.77
2:N:290:ASP:CB	2:N:292:ASN:HB2	2.10	0.77
1:A:23:ILE:HD11	1:A:1420:ALA:HA	0.83	0.77
1:A:242:ILE:HG21	1:A:245:LEU:HD13	1.67	0.77
1:A:730:GLN:CA	1:A:733:ASP:OD1	2.31	0.77
1:A:1140:GLN:O	1:A:1280:ARG:CB	2.33	0.77
2:B:1061:MET:HE3	2:B:1074:VAL:HG11	1.67	0.77
4:D:99:GLU:HA	4:D:124:LEU:CD2	2.13	0.77
5:E:21:LEU:HD21	5:E:25:ARG:HE	1.50	0.77
9:I:51:SER:O	9:I:52:ASN:CB	2.33	0.77
1:M:381:THR:CA	1:M:382:TYR:HB3	2.03	0.77
1:M:672:ILE:O	1:M:675:THR:HG22	1.84	0.77
1:A:48:GLN:CG	1:A:50:PRO:CD	2.63	0.76
1:A:581:LYS:CB	1:A:618:ILE:HD11	2.16	0.76
1:A:836:LYS:CG	1:A:840:THR:HG21	2.12	0.76
1:A:1074:SER:O	1:A:1078:PRO:CD	2.30	0.76
2:B:211:PHE:CE2	2:B:384:ARG:HD3	2.20	0.76
2:B:512:GLU:O	2:B:512:GLU:HG2	1.85	0.76
4:D:47:GLY:O	4:D:48:GLU:CB	2.31	0.76
4:D:58:THR:O	4:D:62:PHE:HD2	1.68	0.76
1:M:48:GLN:CG	1:M:50:PRO:CG	2.61	0.76
1:M:117:ILE:HG22	1:M:118:ASP:N	1.98	0.76
1:M:889:PHE:CZ	1:M:1020:LEU:HD21	2.20	0.76
2:N:427:GLU:O	2:N:428:PHE:CB	2.33	0.76
2:N:488:ILE:HB	2:N:489:GLY:C	2.05	0.76
2:N:640:ILE:HD13	2:N:673:LEU:HD22	1.65	0.76
2:N:784:ILE:HD11	2:N:843:ILE:HD12	1.65	0.76
2:N:1068:ARG:HG3	2:N:1069:LYS:O	1.86	0.76
3:O:130:LEU:CB	3:O:131:GLY:HA3	2.00	0.76
4:P:68:PHE:HD1	4:P:73:ALA:HB1	1.50	0.76
1:A:812:ARG:HB2	1:A:813:GLY:HA2	1.65	0.76
1:A:889:PHE:CZ	1:A:1020:LEU:HD21	2.20	0.76
1:A:1085:ASN:OD1	1:A:1088:HIS:HD2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:149:VAL:HG21	7:G:163:THR:CG2	2.14	0.76
1:M:94:HIS:O	1:M:98:LEU:HB2	1.84	0.76
1:M:154:LEU:H	1:M:173:GLY:CA	1.98	0.76
1:M:1450:TYR:O	1:M:1451:LEU:CD2	2.33	0.76
2:N:453:GLY:O	2:N:456:LYS:HB2	1.86	0.76
3:O:233:VAL:HG21	3:O:245:MET:HE2	1.68	0.76
4:P:11:ALA:HB1	4:P:12:GLN:CB	2.14	0.76
1:A:116:LYS:HE3	1:A:140:VAL:HG13	1.67	0.76
1:A:155:SER:CB	1:A:169:ASN:HA	2.15	0.76
1:A:260:GLY:HA3	2:B:924:ARG:CD	2.14	0.76
1:A:271:LYS:CE	1:A:328:LEU:CG	2.45	0.76
1:A:388:PRO:HB3	1:A:434:TYR:OH	1.85	0.76
1:A:780:ARG:NH1	1:A:803:ARG:HE	1.83	0.76
1:A:1191:GLN:O	1:A:1246:ILE:CG2	2.34	0.76
1:A:1260:ILE:O	1:A:1260:ILE:CG1	2.30	0.76
1:A:1444:THR:HG23	1:A:1444:THR:O	1.86	0.76
2:B:640:ILE:HD13	2:B:673:LEU:HD22	1.65	0.76
2:B:972:ARG:CZ	2:B:1080:TYR:CE1	2.67	0.76
3:C:58:PRO:HD2	3:C:61:PHE:HB3	1.68	0.76
1:M:674:ASP:OD2	1:M:748:ASN:HB2	1.85	0.76
1:M:827:ARG:HH11	1:M:827:ARG:CG	1.98	0.76
1:M:1259:MET:O	1:M:1260:ILE:CG1	2.33	0.76
1:M:1290:MET:HE2	1:M:1312:LEU:HD21	1.65	0.76
2:N:508:VAL:HG13	2:N:510:PRO:N	1.99	0.76
2:N:655:TYR:O	2:N:656:ASP:CB	2.31	0.76
2:N:734:PRO:O	2:N:737:ILE:HG13	1.85	0.76
7:S:144:VAL:HG13	7:S:170:GLY:C	2.05	0.76
7:S:149:VAL:HG21	7:S:163:THR:CG2	2.15	0.76
1:A:1150:THR:O	1:A:1151:SER:CB	2.31	0.76
1:A:1259:MET:O	1:A:1260:ILE:CG1	2.33	0.76
1:A:1450:TYR:O	1:A:1451:LEU:CD2	2.33	0.76
2:B:488:ILE:HB	2:B:489:GLY:C	2.05	0.76
2:B:508:VAL:HG13	2:B:510:PRO:N	1.99	0.76
4:D:19:PHE:CE1	7:G:42:GLN:O	2.39	0.76
9:I:6:TYR:O	9:I:14:LEU:CG	2.34	0.76
1:M:1397:ARG:O	1:M:1398:ALA:HB2	1.85	0.76
2:N:43:GLN:N	2:N:44:ASN:HB2	2.01	0.76
1:A:81:GLY:CA	1:A:249:PRO:CB	2.63	0.76
1:A:117:ILE:HD11	1:A:143:VAL:HG21	1.66	0.76
1:A:592:ILE:HG21	1:A:639:ILE:HG22	1.65	0.76
1:A:674:ASP:OD2	1:A:748:ASN:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:815:THR:HG22	2:B:715:ARG:CB	2.10	0.76
1:A:827:ARG:HH11	1:A:827:ARG:CG	1.98	0.76
1:A:895:SER:H	1:A:898:GLN:HE21	1.33	0.76
1:A:1395:ILE:HD11	1:A:1397:ARG:CB	2.07	0.76
2:B:427:GLU:O	2:B:428:PHE:CB	2.33	0.76
9:I:5:GLN:C	9:I:14:LEU:HD12	2.06	0.76
9:I:111:GLU:CG	9:I:112:GLU:N	2.36	0.76
1:M:81:GLY:CA	1:M:249:PRO:CB	2.63	0.76
1:M:242:ILE:HG21	1:M:245:LEU:HD13	1.67	0.76
1:M:322:GLN:OE1	1:M:328:LEU:CB	2.34	0.76
1:M:366:SER:OG	1:M:369:GLU:HG3	1.85	0.76
1:M:579:THR:HG23	1:M:582:GLN:HB2	1.65	0.76
1:M:785:PHE:HZ	1:M:791:PRO:HG3	1.50	0.76
3:O:58:PRO:HD2	3:O:61:PHE:HB3	1.68	0.76
3:O:210:TRP:O	3:O:211:GLU:HG3	1.84	0.76
1:A:62:THR:HG21	1:A:75:THR:CB	2.14	0.76
1:A:341:ARG:HH12	2:B:1190:LEU:HB3	1.48	0.76
1:A:904:ARG:HG3	1:A:937:GLN:HE22	1.49	0.76
1:A:972:GLN:NE2	1:A:973:ILE:HD13	2.01	0.76
1:A:1392:ARG:O	1:A:1393:HIS:ND1	2.19	0.76
2:B:273:ARG:CD	2:B:310:ILE:CD1	2.26	0.76
2:B:328:GLY:O	2:B:329:VAL:HB	1.85	0.76
2:B:1068:ARG:HG3	2:B:1069:LYS:O	1.86	0.76
4:D:96:LEU:HD23	4:D:96:LEU:N	2.01	0.76
10:J:56:ILE:HD12	10:J:56:ILE:N	2.00	0.76
1:M:62:THR:HG21	1:M:75:THR:CB	2.14	0.76
1:M:71:THR:C	1:M:72:CYS:SG	2.63	0.76
1:M:120:SER:OG	1:M:121:ASN:CB	2.30	0.76
1:M:419:ILE:HG22	1:M:425:LYS:CD	2.10	0.76
1:M:762:ILE:O	1:M:762:ILE:HG12	1.85	0.76
1:M:904:ARG:HG3	1:M:937:GLN:HE22	1.49	0.76
1:M:1191:GLN:O	1:M:1246:ILE:CG2	2.34	0.76
5:Q:21:LEU:HD21	5:Q:25:ARG:HE	1.50	0.76
1:A:2:SER:CB	7:G:65:GLY:O	2.33	0.76
2:B:43:GLN:N	2:B:44:ASN:HB2	2.00	0.76
2:B:454:ASP:OD1	2:B:455:GLN:CA	2.30	0.76
2:B:907:ILE:HD13	2:B:924:ARG:HH21	1.49	0.76
2:B:985:HIS:CE1	2:B:996:VAL:HG11	2.20	0.76
1:M:94:HIS:CD2	1:M:97:PHE:HB2	2.20	0.76
1:M:254:PRO:CB	2:N:1103:LEU:HD21	2.15	0.76
1:M:709:LYS:CB	1:M:710:PRO:CD	2.56	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1290:MET:CE	1:M:1312:LEU:CD2	2.64	0.76
2:N:105:ARG:HH12	2:N:777:ARG:NH2	1.84	0.76
2:N:838:GLY:HA2	2:N:841:ARG:HD2	1.68	0.76
1:A:387:THR:O	1:A:391:ILE:HD12	1.86	0.76
1:A:1170:LYS:CE	1:A:1240:ILE:CD1	2.60	0.76
7:G:14:LEU:HD12	7:G:30:LYS:NZ	2.00	0.76
1:M:116:LYS:HE3	1:M:140:VAL:HG13	1.67	0.76
1:M:386:VAL:HG21	1:M:436:TRP:HE1	1.51	0.76
1:M:430:ILE:O	1:M:430:ILE:HG12	1.82	0.76
1:M:573:LYS:HE2	8:T:74:TYR:CZ	2.20	0.76
1:M:808:ASN:ND2	1:M:812:ARG:HD2	2.01	0.76
1:M:846:ARG:CD	1:M:1390:ILE:O	2.33	0.76
2:N:216:PRO:HB2	2:N:218:PRO:HD3	1.67	0.76
7:S:14:LEU:HD12	7:S:30:LYS:NZ	2.01	0.76
10:V:56:ILE:HD12	10:V:56:ILE:N	2.00	0.76
1:A:205:LYS:CG	1:A:206:ARG:HE	1.96	0.76
1:A:244:VAL:HG12	1:A:244:VAL:O	1.84	0.76
1:A:337:GLY:CA	1:A:338:LYS:O	2.32	0.76
1:A:1101:VAL:N	1:A:1102:PRO:HD2	1.95	0.76
1:A:1104:LEU:C	1:A:1104:LEU:CD1	2.54	0.76
4:D:99:GLU:C	4:D:124:LEU:CD2	2.53	0.76
1:M:338:LYS:CG	1:M:343:ARG:HD3	2.13	0.76
3:O:31:SER:O	3:O:35:VAL:HG23	1.86	0.76
1:A:380:LEU:HD13	1:A:497:VAL:CG2	2.14	0.76
2:B:287:ILE:HD11	2:B:368:ILE:HD11	1.68	0.76
2:B:292:ASN:H	2:B:293:ASP:HB2	1.46	0.76
2:B:453:GLY:O	2:B:456:LYS:HB2	1.86	0.76
2:B:641:ARG:H	2:B:644:HIS:HD2	1.30	0.76
2:B:1205:PHE:CE2	2:B:1210:LYS:CB	2.69	0.76
4:D:68:PHE:HD1	4:D:73:ALA:HB1	1.50	0.76
7:G:144:VAL:HG13	7:G:170:GLY:C	2.05	0.76
10:J:7:CYS:CB	10:J:45:CYS:CB	2.63	0.76
1:M:108:VAL:O	1:M:109:CYS:SG	2.44	0.76
1:M:166:PRO:HB2	1:M:168:ALA:HB1	1.69	0.76
1:M:571:ILE:CG1	1:M:573:LYS:HE3	2.15	0.76
1:M:1176:PHE:O	1:M:1180:PRO:CD	2.30	0.76
1:M:1295:ILE:CG2	1:M:1309:GLU:HG2	2.16	0.76
4:P:14:LYS:O	4:P:15:LEU:HB2	1.85	0.76
4:P:96:LEU:N	4:P:96:LEU:HD23	2.01	0.76
9:U:4:PHE:CD1	9:U:27:LEU:CD2	2.69	0.76
1:A:166:PRO:HB2	1:A:168:ALA:HB1	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:513:VAL:HG23	1:A:514:PRO:CD	2.04	0.75
1:A:1076:GLY:C	1:A:1078:PRO:HD2	2.06	0.75
1:A:1144:THR:HB	1:A:1279:LEU:HD12	1.69	0.75
1:A:1161:PRO:CB	1:A:1190:LYS:HG2	2.16	0.75
1:A:1252:LYS:O	1:A:1253:ALA:HB3	1.86	0.75
1:A:1465:VAL:HG13	1:A:1466:PRO:CB	2.09	0.75
2:B:443:LEU:HA	2:B:446:SER:OG	1.86	0.75
8:H:80:VAL:HG13	8:H:95:VAL:HG23	1.68	0.75
9:I:4:PHE:CD1	9:I:27:LEU:CD2	2.69	0.75
1:M:1066:MET:HE3	1:M:1442:MET:HG3	1.68	0.75
1:M:1503:ALA:O	1:M:1507:PRO:CD	2.30	0.75
2:N:335:LEU:O	2:N:339:HIS:CD2	2.39	0.75
2:N:1205:PHE:CE2	2:N:1210:LYS:CB	2.69	0.75
4:P:14:LYS:O	4:P:15:LEU:CB	2.34	0.75
4:P:131:ARG:C	4:P:134:GLN:HB2	2.07	0.75
1:A:70:GLN:O	1:A:71:THR:CB	2.35	0.75
1:A:71:THR:C	1:A:72:CYS:SG	2.63	0.75
1:A:162:ASP:CA	1:A:165:ASN:HB2	2.16	0.75
1:A:179:GLN:N	1:A:180:PRO:CD	2.49	0.75
1:A:343:ARG:CG	1:A:1409:GLU:OE2	2.32	0.75
1:A:1228:PHE:HD2	1:A:1246:ILE:HD11	1.50	0.75
4:D:131:ARG:C	4:D:134:GLN:HB2	2.07	0.75
1:M:6:PHE:C	1:M:8:PRO:HD3	2.05	0.75
1:M:117:ILE:HD11	1:M:143:VAL:HG21	1.66	0.75
1:M:375:SER:CB	11:W:2:ASN:HD21	1.98	0.75
1:M:506:GLU:OE2	1:M:1444:THR:CG2	2.33	0.75
1:M:581:LYS:CB	1:M:618:ILE:HD11	2.15	0.75
1:M:972:GLN:NE2	1:M:973:ILE:HD13	2.01	0.75
1:M:1290:MET:HE2	1:M:1312:LEU:CD2	2.16	0.75
1:M:1367:SER:O	1:M:1369:VAL:HG23	1.86	0.75
2:N:102:GLN:HB3	2:N:105:ARG:HD2	1.68	0.75
3:O:130:LEU:HB3	3:O:131:GLY:CA	2.13	0.75
1:A:65:ARG:N	1:A:67:PHE:HE1	1.84	0.75
1:A:322:GLN:OE1	1:A:328:LEU:CB	2.34	0.75
1:A:762:ILE:O	1:A:762:ILE:HG12	1.85	0.75
1:A:1496:PHE:HD2	4:D:33:LEU:HD21	1.40	0.75
2:B:734:PRO:O	2:B:737:ILE:HG13	1.85	0.75
2:B:1095:ARG:HD3	2:B:1096:ALA:H	1.52	0.75
3:C:242:ASN:HA	3:C:243:GLU:C	2.07	0.75
1:M:70:GLN:O	1:M:71:THR:CB	2.34	0.75
1:M:775:ILE:O	1:M:776:VAL:CG1	2.30	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:780:ARG:NH1	1:M:803:ARG:HE	1.84	0.75
1:M:1083:THR:HG23	1:M:1084:LEU:H	1.50	0.75
1:M:1282:VAL:HG11	1:M:1285:ILE:HD11	1.68	0.75
4:P:32:ILE:HD12	4:P:74:THR:CG2	2.00	0.75
9:U:51:SER:O	9:U:52:ASN:CB	2.33	0.75
1:A:205:LYS:C	1:A:206:ARG:CD	2.53	0.75
1:A:350:ARG:NH1	2:B:1118:ARG:HB2	2.02	0.75
2:B:838:GLY:HA2	2:B:841:ARG:HD2	1.68	0.75
7:G:88:VAL:HG11	7:G:104:ILE:HG21	1.67	0.75
1:M:24:LEU:HD23	2:N:1201:ALA:HB2	1.68	0.75
1:M:42:THR:CG2	1:M:43:MET:N	2.35	0.75
1:M:350:ARG:HA	2:N:1118:ARG:HA	1.67	0.75
1:M:895:SER:H	1:M:898:GLN:HE21	1.33	0.75
2:N:871:THR:O	2:N:872:LEU:CG	2.35	0.75
7:S:115:LEU:HD22	7:S:163:THR:HG22	1.66	0.75
8:T:79:LYS:HD3	8:T:81:TYR:HE1	1.51	0.75
8:T:80:VAL:HG13	8:T:95:VAL:HG23	1.68	0.75
2:B:335:LEU:O	2:B:339:HIS:CD2	2.39	0.75
4:D:14:LYS:O	4:D:15:LEU:HB2	1.84	0.75
4:D:61:TYR:OH	7:G:103:ASN:HB3	1.87	0.75
8:H:60:THR:HG23	8:H:61:SER:H	1.50	0.75
1:M:119:SER:N	1:M:120:SER:CB	2.49	0.75
1:M:266:ASP:CB	1:M:267:ASP:CB	2.54	0.75
1:M:708:LEU:HG	1:M:709:LYS:O	1.87	0.75
1:M:836:LYS:CG	1:M:840:THR:HG21	2.12	0.75
2:N:443:LEU:HA	2:N:446:SER:OG	1.86	0.75
10:V:7:CYS:CB	10:V:45:CYS:CB	2.63	0.75
1:A:645:PRO:HA	1:A:648:CYS:CB	2.17	0.75
2:B:871:THR:O	2:B:872:LEU:CG	2.35	0.75
8:H:79:LYS:HD3	8:H:81:TYR:HE1	1.50	0.75
1:M:65:ARG:N	1:M:67:PHE:HE1	1.84	0.75
1:M:119:SER:N	1:M:120:SER:HB2	2.01	0.75
1:M:350:ARG:O	1:M:351:VAL:CB	2.34	0.75
1:M:846:ARG:HG3	1:M:1390:ILE:HG22	1.68	0.75
1:M:1252:LYS:O	1:M:1253:ALA:HB3	1.86	0.75
1:M:1450:TYR:HE1	7:S:61:ARG:HB2	1.51	0.75
2:N:1095:ARG:HD3	2:N:1096:ALA:H	1.52	0.75
1:A:15:ARG:NH1	1:A:1438:GLN:NE2	2.33	0.75
1:A:1223:PHE:CZ	1:A:1273:MET:SD	2.80	0.75
3:C:4:GLU:N	3:C:5:THR:HA	1.99	0.75
9:I:6:TYR:O	9:I:7:CYS:HB3	1.87	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:763:ASN:O	1:M:767:MET:HG3	1.87	0.75
1:M:1077:GLU:N	1:M:1078:PRO:CD	2.50	0.75
1:M:1283:PRO:O	1:M:1284:ASN:CB	2.34	0.75
1:M:1411:THR:O	1:M:1412:VAL:CG1	2.33	0.75
4:P:10:ALA:HA	7:S:84:ARG:O	1.87	0.75
5:Q:199:THR:HG22	5:Q:200:SER:O	1.87	0.75
1:A:176:GLY:O	1:A:177:ALA:HB2	1.87	0.75
1:A:331:ILE:O	1:A:335:LEU:HD21	1.86	0.75
1:A:350:ARG:O	1:A:351:VAL:CB	2.34	0.75
1:A:887:GLN:HG3	1:A:888:VAL:N	2.02	0.75
1:A:905:ILE:HD13	1:A:905:ILE:N	2.02	0.75
1:A:1248:ASP:HA	1:A:1250:ASP:H	1.52	0.75
3:C:31:SER:O	3:C:35:VAL:HG23	1.86	0.75
3:C:67:GLY:HA3	3:C:170:LYS:NZ	2.02	0.75
3:C:125:SER:O	3:C:126:SER:CB	2.35	0.75
4:D:71:ALA:O	4:D:75:TYR:CD2	2.40	0.75
7:G:14:LEU:HD12	7:G:30:LYS:HZ3	1.52	0.75
1:M:118:ASP:CG	1:M:120:SER:OG	2.25	0.75
1:M:120:SER:H	1:M:122:PRO:CA	1.99	0.75
1:M:312:ASN:HD21	1:M:330:SER:N	1.85	0.75
1:M:856:VAL:HG22	1:M:1067:VAL:HG21	1.67	0.75
3:O:67:GLY:HA3	3:O:170:LYS:NZ	2.02	0.75
4:P:43:ARG:O	4:P:44:GLU:CB	2.34	0.75
4:P:71:ALA:O	4:P:75:TYR:CD2	2.40	0.75
1:A:106:GLU:CB	1:A:144:CYS:CB	2.65	0.75
1:A:193:TRP:CZ3	1:A:206:ARG:HB3	2.22	0.75
1:A:231:ASN:HB3	1:A:235:ALA:H	1.52	0.75
1:A:1085:ASN:HA	1:A:1088:HIS:HD2	1.50	0.75
1:M:922:GLU:CB	1:M:923:ASN:CA	2.64	0.75
1:M:950:PHE:CB	1:M:951:PRO:CD	2.64	0.75
2:N:972:ARG:CZ	2:N:1080:TYR:CE1	2.67	0.75
2:N:985:HIS:CE1	2:N:996:VAL:HG11	2.20	0.75
9:U:6:TYR:O	9:U:14:LEU:CD1	2.34	0.75
1:A:56:LEU:C	1:A:56:LEU:HD12	2.05	0.74
1:A:192:SER:HB2	1:A:202:LEU:CA	2.15	0.74
1:A:922:GLU:CB	1:A:923:ASN:CA	2.64	0.74
2:B:1108:VAL:CG2	2:B:1109:GLU:H	2.00	0.74
4:D:10:ALA:HA	7:G:84:ARG:O	1.87	0.74
4:D:43:ARG:O	4:D:44:GLU:CB	2.34	0.74
1:M:1076:GLY:C	1:M:1078:PRO:HD2	2.07	0.74
1:M:1104:LEU:C	1:M:1104:LEU:CD1	2.54	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1146:LEU:HD12	1:M:1274:LEU:CD2	2.12	0.74
1:M:1150:THR:CG2	9:U:48:LEU:HD22	2.17	0.74
1:M:1228:PHE:CE2	1:M:1246:ILE:CD1	2.70	0.74
2:N:605:ILE:HB	9:U:61:ASP:CB	2.09	0.74
2:N:995:ILE:HD13	2:N:995:ILE:H	1.52	0.74
2:N:1106:GLN:HB3	2:N:1107:PRO:CD	2.17	0.74
4:P:19:PHE:CE1	7:S:42:GLN:O	2.39	0.74
7:S:88:VAL:HG11	7:S:104:ILE:HG21	1.67	0.74
1:A:118:ASP:CG	1:A:120:SER:OG	2.25	0.74
1:A:119:SER:N	1:A:120:SER:HB2	2.01	0.74
1:A:151:ASP:CG	1:A:152:THR:H	1.89	0.74
1:A:312:ASN:HD21	1:A:330:SER:N	1.85	0.74
1:A:1367:SER:O	1:A:1369:VAL:HG23	1.86	0.74
2:B:102:GLN:HB3	2:B:105:ARG:HD2	1.68	0.74
2:B:226:ARG:HA	2:B:238:SER:HA	1.68	0.74
2:B:232:GLY:O	2:B:233:SER:HB3	1.84	0.74
2:B:488:ILE:CD1	2:B:490:ARG:CG	2.65	0.74
2:B:759:GLN:NE2	2:B:1082:GLN:OE1	2.20	0.74
2:B:1095:ARG:CD	2:B:1096:ALA:H	2.00	0.74
5:E:199:THR:HG22	5:E:200:SER:O	1.87	0.74
11:K:118:VAL:CG2	11:K:119:GLU:N	2.37	0.74
1:M:24:LEU:HD12	2:N:1199:ASN:HA	1.69	0.74
1:M:95:ILE:HG21	1:M:314:ILE:HD13	1.69	0.74
1:M:341:ARG:HA	1:M:345:ASN:HB2	1.68	0.74
1:M:1085:ASN:OD1	1:M:1088:HIS:HD2	1.68	0.74
2:N:715:ARG:HG2	2:N:715:ARG:NH1	1.97	0.74
4:P:67:ARG:NH1	4:P:97:CYS:HG	1.85	0.74
1:A:66:GLN:C	1:A:67:PHE:CG	2.61	0.74
1:A:664:LEU:HG	2:B:1063:HIS:CE1	2.22	0.74
2:B:105:ARG:HH12	2:B:777:ARG:NH2	1.84	0.74
4:D:19:PHE:CZ	7:G:42:GLN:O	2.41	0.74
4:D:24:MET:HG3	7:G:4:PHE:HE1	1.50	0.74
1:M:101:ILE:CB	1:M:240:MET:SD	2.74	0.74
1:M:161:PHE:O	1:M:166:PRO:CB	2.30	0.74
1:M:820:PHE:CZ	2:N:500:LEU:HD11	2.22	0.74
1:M:1161:PRO:CB	1:M:1190:LYS:HG2	2.16	0.74
1:M:1259:MET:C	1:M:1260:ILE:HG23	2.08	0.74
1:M:1359:ARG:NH2	1:M:1371:TYR:HD1	1.85	0.74
1:A:179:GLN:N	1:A:180:PRO:HD2	2.02	0.74
1:A:950:PHE:CB	1:A:951:PRO:CD	2.64	0.74
1:A:1228:PHE:CE2	1:A:1246:ILE:CD1	2.70	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:15:ARG:NH1	1:M:1438:GLN:NE2	2.33	0.74
1:M:195:ARG:CB	1:M:196:GLY:CA	2.65	0.74
1:M:773:GLN:HE22	1:M:780:ARG:HB2	1.53	0.74
1:M:780:ARG:NH1	1:M:803:ARG:NH2	2.34	0.74
2:N:1095:ARG:CD	2:N:1096:ALA:H	2.00	0.74
3:O:4:GLU:N	3:O:5:THR:HA	1.99	0.74
3:O:242:ASN:HA	3:O:243:GLU:C	2.07	0.74
1:A:8:PRO:HG3	2:B:1148:ARG:HE	1.50	0.74
2:B:1106:GLN:HB3	2:B:1107:PRO:CD	2.17	0.74
4:D:14:LYS:O	4:D:15:LEU:CB	2.34	0.74
1:M:816:PRO:HG2	2:N:689:MET:HE1	1.68	0.74
1:M:1228:PHE:HD2	1:M:1246:ILE:HD11	1.50	0.74
2:N:1093:HIS:CE1	2:N:1114:ASP:O	2.41	0.74
1:A:559:VAL:HG21	1:A:562:TRP:HB2	1.70	0.74
1:A:810:TYR:CE2	2:B:752:GLN:HA	2.23	0.74
1:A:1125:PRO:HG2	1:A:1129:ALA:HB2	1.69	0.74
2:B:995:ILE:H	2:B:995:ILE:HD13	1.52	0.74
1:M:5:GLN:O	1:M:8:PRO:CD	2.35	0.74
1:M:87:GLU:O	1:M:88:LEU:HD23	1.87	0.74
1:M:90:LYS:CE	1:M:282:VAL:HG11	2.18	0.74
1:M:153:GLY:HA2	1:M:174:GLY:N	2.01	0.74
1:M:846:ARG:NH1	1:M:1392:ARG:N	2.34	0.74
1:M:1085:ASN:HA	1:M:1088:HIS:HD2	1.49	0.74
1:M:1165:VAL:O	1:M:1166:ILE:HG12	1.88	0.74
2:N:1141:PHE:CD1	2:N:1185:PRO:HG3	2.23	0.74
4:P:99:GLU:C	4:P:124:LEU:CD2	2.52	0.74
8:T:72:ALA:HA	8:T:124:ARG:HA	1.70	0.74
1:A:5:GLN:O	1:A:8:PRO:CD	2.35	0.74
1:A:778:GLY:O	1:A:1092:VAL:HG23	1.88	0.74
1:A:1165:VAL:O	1:A:1166:ILE:HG12	1.88	0.74
2:B:715:ARG:HG2	2:B:715:ARG:NH1	1.97	0.74
7:G:39:CYS:SG	7:G:45:TYR:CD1	2.81	0.74
7:G:46:ILE:HG12	7:G:79:LEU:CD2	2.14	0.74
1:M:905:ILE:HD13	1:M:905:ILE:N	2.02	0.74
2:N:263:ARG:HB3	2:N:322:LYS:CE	2.16	0.74
4:P:61:TYR:OH	7:S:103:ASN:HB3	1.87	0.74
4:P:131:ARG:O	4:P:132:LYS:CB	2.36	0.74
9:U:6:TYR:O	9:U:14:LEU:HD21	1.88	0.74
1:A:95:ILE:CG2	1:A:314:ILE:HD13	2.17	0.74
1:A:105:LEU:CD1	1:A:182:ILE:HD12	2.07	0.74
1:A:120:SER:H	1:A:122:PRO:CA	1.99	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:918:GLU:OE1	1:A:981:PRO:HG2	1.88	0.74
2:B:401:SER:O	2:B:405:MET:HG2	1.87	0.74
5:E:135:LEU:HD11	5:E:178:PRO:HB3	1.70	0.74
1:M:105:LEU:O	1:M:105:LEU:CD1	2.32	0.74
1:M:887:GLN:HG3	1:M:888:VAL:N	2.02	0.74
1:M:1101:VAL:N	1:M:1102:PRO:HD2	1.95	0.74
1:M:1192:SER:HB3	1:M:1246:ILE:HG13	1.70	0.74
2:N:587:ARG:HH21	2:N:601:ILE:HD11	1.53	0.74
7:S:39:CYS:SG	7:S:45:TYR:CD2	2.81	0.74
1:A:8:PRO:HG3	2:B:1148:ARG:NE	2.02	0.74
1:A:355:ALA:HB1	2:B:1093:HIS:O	1.88	0.74
1:A:1077:GLU:N	1:A:1078:PRO:CD	2.50	0.74
1:A:1397:ARG:O	1:A:1398:ALA:HB2	1.85	0.74
5:E:28:GLY:N	5:E:62:LYS:O	2.21	0.74
7:G:10:LEU:CD2	7:G:35:VAL:CG2	2.59	0.74
1:M:918:GLU:OE1	1:M:981:PRO:HG2	1.88	0.74
1:M:1506:SER:N	1:M:1507:PRO:CD	2.50	0.74
2:N:226:ARG:HA	2:N:238:SER:HA	1.68	0.74
4:P:11:ALA:HA	4:P:12:GLN:HB2	1.69	0.74
7:S:39:CYS:SG	7:S:45:TYR:CD1	2.81	0.74
7:S:80:TRP:CZ3	7:S:107:LEU:HB2	2.18	0.74
11:W:24:SER:CB	11:W:25:LYS:HB2	2.18	0.74
1:A:375:SER:CB	11:K:2:ASN:HD21	1.95	0.74
1:A:517:ILE:CG1	1:A:640:TRP:CD1	2.71	0.74
4:D:99:GLU:CG	4:D:124:LEU:HD11	2.17	0.74
7:G:59:LYS:HB3	7:G:60:GLY:HA3	1.65	0.74
8:H:113:ARG:HG2	8:H:114:LEU:N	2.02	0.74
1:M:66:GLN:C	1:M:67:PHE:CG	2.61	0.74
1:M:90:LYS:HD3	1:M:282:VAL:HG12	1.70	0.74
1:M:91:PRO:HB3	1:M:210:PRO:HG2	1.67	0.74
1:M:154:LEU:N	1:M:173:GLY:HA2	2.03	0.74
1:M:198:ASP:O	1:M:199:GLU:CB	2.33	0.74
1:M:350:ARG:NH1	2:N:1118:ARG:HB2	2.02	0.74
1:M:355:ALA:HB1	2:N:1093:HIS:O	1.88	0.74
1:M:388:PRO:HG3	1:M:434:TYR:HE2	1.53	0.74
1:M:778:GLY:HA2	1:M:1091:GLY:CA	2.17	0.74
9:U:48:LEU:O	9:U:49:GLN:CB	2.36	0.74
1:A:1089:TYR:N	1:A:1090:ALA:HB2	2.03	0.73
2:B:754:PRO:O	2:B:758:TYR:CD2	2.41	0.73
2:B:1093:HIS:CE1	2:B:1114:ASP:O	2.41	0.73
3:C:219:PRO:HG2	8:H:48:PRO:HG2	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:5:GLU:O	5:E:8:ILE:HG12	1.88	0.73
1:M:827:ARG:HH11	1:M:827:ARG:HB2	1.53	0.73
1:M:850:ALA:HB1	1:M:1395:ILE:HG23	1.68	0.73
2:N:388:GLY:N	2:N:503:THR:HG21	2.03	0.73
2:N:752:GLN:HG3	2:N:1010:MET:HE1	1.70	0.73
2:N:754:PRO:O	2:N:758:TYR:CD2	2.41	0.73
4:P:84:ARG:HG2	4:P:85:PHE:N	1.90	0.73
9:U:15:TYR:N	9:U:28:ALA:O	2.21	0.73
1:A:167:SER:HA	1:A:168:ALA:O	1.87	0.73
1:A:208:LEU:H	1:A:208:LEU:HD12	1.50	0.73
1:A:271:LYS:HE2	1:A:328:LEU:HD12	1.70	0.73
1:A:1192:SER:HB3	1:A:1246:ILE:HG13	1.70	0.73
1:A:1284:ASN:HB3	1:A:1317:ILE:HD12	1.69	0.73
3:C:233:VAL:HG21	3:C:245:MET:HE2	1.70	0.73
1:M:101:ILE:HD11	1:M:217:PHE:CZ	2.23	0.73
1:M:107:CYS:O	1:M:108:VAL:CG1	2.36	0.73
1:M:196:GLY:O	1:M:197:LYS:CB	2.34	0.73
1:M:654:GLY:O	1:M:658:VAL:HG23	1.88	0.73
1:M:1248:ASP:HA	1:M:1250:ASP:H	1.52	0.73
2:N:287:ILE:HD11	2:N:368:ILE:HD11	1.68	0.73
2:N:658:ASP:O	2:N:660:GLU:HB2	1.89	0.73
1:A:708:LEU:HG	1:A:709:LYS:O	1.87	0.73
1:A:763:ASN:O	1:A:767:MET:HG3	1.87	0.73
1:A:856:VAL:HG22	1:A:1067:VAL:HG21	1.68	0.73
2:B:587:ARG:HH21	2:B:601:ILE:CD1	2.01	0.73
3:C:120:ARG:HB2	3:C:141:ARG:HB3	1.71	0.73
1:M:101:ILE:CD1	1:M:240:MET:CE	2.64	0.73
1:M:1223:PHE:CZ	1:M:1273:MET:SD	2.80	0.73
1:M:1444:THR:HG23	1:M:1444:THR:O	1.86	0.73
2:N:220:ALA:O	2:N:221:TYR:CB	2.35	0.73
5:Q:202:ARG:HG3	5:Q:202:ARG:O	1.88	0.73
1:A:331:ILE:CD1	2:B:1198:MET:SD	2.76	0.73
1:A:780:ARG:NH1	1:A:803:ARG:NH2	2.35	0.73
1:A:816:PRO:HB2	2:B:689:MET:CE	2.18	0.73
1:A:887:GLN:HG3	1:A:888:VAL:H	1.53	0.73
1:A:946:CYS:CB	1:A:949:ILE:HD11	2.18	0.73
1:A:1450:TYR:CD1	7:G:60:GLY:C	2.51	0.73
2:B:220:ALA:O	2:B:221:TYR:CB	2.35	0.73
2:B:350:ILE:HG22	2:B:351:THR:HG22	1.70	0.73
2:B:655:TYR:N	2:B:655:TYR:CD2	2.56	0.73
1:M:167:SER:HA	1:M:168:ALA:O	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:432:LEU:HA	1:M:436:TRP:CH2	2.23	0.73
1:M:664:LEU:HG	2:N:1063:HIS:CE1	2.22	0.73
1:M:887:GLN:HG3	1:M:888:VAL:H	1.53	0.73
1:M:1178:ALA:C	1:M:1180:PRO:HD2	2.09	0.73
4:P:19:PHE:CZ	7:S:42:GLN:O	2.41	0.73
11:W:20:TYR:OH	11:W:82:PRO:HD2	1.88	0.73
1:A:86:ILE:HG22	1:A:245:LEU:O	1.88	0.73
1:A:1170:LYS:HE2	1:A:1240:ILE:HD12	1.70	0.73
2:B:24:PHE:HD2	2:B:665:TRP:CE2	2.07	0.73
2:B:429:ASN:O	2:B:430:LEU:CB	2.32	0.73
4:D:131:ARG:O	4:D:132:LYS:CB	2.36	0.73
5:E:101:THR:HG21	5:E:126:THR:HG23	1.66	0.73
7:G:111:VAL:HG13	7:G:111:VAL:O	1.88	0.73
1:M:318:PRO:O	1:M:319:GLN:CB	2.36	0.73
1:M:331:ILE:CD1	2:N:1198:MET:SD	2.76	0.73
1:M:559:VAL:HG21	1:M:562:TRP:HB2	1.70	0.73
1:M:1125:PRO:HG2	1:M:1129:ALA:HB2	1.69	0.73
1:M:1191:GLN:CA	1:M:1246:ILE:HG23	2.18	0.73
2:N:402:LEU:HD22	2:N:452:TRP:CE3	2.24	0.73
2:N:1108:VAL:CG2	2:N:1109:GLU:H	2.01	0.73
3:O:38:ALA:HA	3:O:165:ALA:HB3	1.70	0.73
9:U:51:SER:O	9:U:52:ASN:HB3	1.88	0.73
1:A:195:ARG:HG3	1:A:196:GLY:CA	2.18	0.73
1:A:321:LEU:HD22	1:A:325:GLY:C	2.09	0.73
1:A:322:GLN:OE1	1:A:328:LEU:CD2	2.36	0.73
1:A:351:VAL:HG13	1:A:352:ASP:H	1.54	0.73
1:A:614:GLU:O	1:A:616:GLY:N	2.21	0.73
1:A:1359:ARG:NH2	1:A:1371:TYR:HD1	1.85	0.73
2:B:605:ILE:HB	9:I:61:ASP:CB	2.10	0.73
3:C:212:GLU:CB	3:C:213:PRO:HA	2.15	0.73
3:C:249:LEU:H	3:C:249:LEU:CD1	1.97	0.73
11:K:20:TYR:OH	11:K:82:PRO:HD2	1.88	0.73
11:K:24:SER:CB	11:K:25:LYS:HB2	2.18	0.73
1:M:91:PRO:CB	1:M:210:PRO:HG2	2.18	0.73
1:M:516:GLN:HE22	2:N:1130:HIS:CD2	2.06	0.73
1:M:889:PHE:HZ	1:M:1020:LEU:HD21	1.54	0.73
1:M:947:LYS:HE3	1:M:1023:ILE:HD12	1.70	0.73
1:M:1295:ILE:HG21	1:M:1309:GLU:HG2	1.68	0.73
2:N:391:ARG:HE	2:N:618:ARG:CZ	2.02	0.73
2:N:655:TYR:CD2	2:N:655:TYR:N	2.56	0.73
6:R:61:GLY:O	6:R:62:LYS:CG	2.37	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:48:GLN:HG3	1:A:50:PRO:CD	2.17	0.73
1:A:267:ASP:N	1:A:268:LEU:CA	2.51	0.73
1:A:432:LEU:HA	1:A:436:TRP:CH2	2.23	0.73
1:A:1142:GLU:O	1:A:1281:GLY:CA	2.37	0.73
2:B:656:ASP:O	2:B:657:ILE:CG2	2.32	0.73
5:E:72:ILE:HA	5:E:101:THR:O	1.89	0.73
5:E:202:ARG:HG3	5:E:202:ARG:O	1.87	0.73
1:M:21:PHE:HZ	1:M:1403:LEU:HD12	1.48	0.73
1:M:267:ASP:N	1:M:268:LEU:CA	2.51	0.73
1:M:1191:GLN:O	1:M:1246:ILE:CG1	2.37	0.73
1:M:1439:LEU:HA	2:N:1137:ARG:HD2	1.70	0.73
2:N:255:ILE:HD11	2:N:268:ILE:HD13	1.71	0.73
2:N:1207:LYS:CG	2:N:1208:ASN:H	2.01	0.73
4:P:68:PHE:CD1	4:P:73:ALA:HB1	2.23	0.73
1:A:147:LYS:HG2	1:A:148:MET:H	1.52	0.73
1:A:271:LYS:HD3	1:A:322:GLN:CD	2.09	0.73
1:A:444:ASP:O	1:A:446:ASP:HB2	1.89	0.73
2:B:229:LEU:HA	2:B:230:GLU:HB3	0.75	0.73
2:B:587:ARG:HH21	2:B:601:ILE:HD11	1.53	0.73
2:B:695:GLU:O	2:B:699:GLN:HG3	1.89	0.73
4:D:68:PHE:CD1	4:D:73:ALA:HB1	2.23	0.73
8:H:71:ALA:HB1	8:H:124:ARG:HD3	1.71	0.73
1:M:567:PRO:O	1:M:578:TRP:CZ3	2.41	0.73
2:N:213:LYS:O	2:N:214:ALA:HB2	1.89	0.73
2:N:1148:ARG:CD	2:N:1181:GLN:HE21	2.00	0.73
5:Q:135:LEU:HD11	5:Q:178:PRO:HB3	1.70	0.73
7:S:46:ILE:HG12	7:S:79:LEU:CD2	2.14	0.73
8:T:71:ALA:HB1	8:T:124:ARG:HD3	1.71	0.73
1:A:90:LYS:CE	1:A:282:VAL:HG11	2.18	0.73
1:A:318:PRO:O	1:A:319:GLN:CB	2.36	0.73
1:A:846:ARG:NH1	1:A:1392:ARG:N	2.37	0.73
1:A:846:ARG:CD	1:A:1390:ILE:O	2.36	0.73
1:A:1157:TYR:CD2	9:I:43:VAL:HG21	2.23	0.73
2:B:328:GLY:O	2:B:329:VAL:CB	2.35	0.73
6:F:123:LEU:HD22	6:F:137:SER:CA	2.17	0.73
1:M:336:LYS:HB2	1:M:1410:GLU:OE1	1.89	0.73
1:M:645:PRO:HA	1:M:648:CYS:CB	2.17	0.73
2:N:391:ARG:NE	2:N:618:ARG:NH2	2.28	0.73
2:N:488:ILE:CD1	2:N:490:ARG:CG	2.65	0.73
3:O:219:PRO:HG2	8:T:48:PRO:HG2	1.70	0.73
7:S:100:PHE:CB	7:S:111:VAL:HG12	2.10	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:113:ARG:HG2	8:T:114:LEU:N	2.02	0.73
9:U:8:ILE:O	9:U:9:GLU:HB2	1.89	0.73
10:V:42:ARG:HG3	10:V:42:ARG:NH1	1.96	0.73
1:A:71:THR:HG21	1:A:82:HIS:NE2	2.02	0.73
1:A:178:ALA:O	1:A:179:GLN:CB	2.36	0.73
1:A:260:GLY:CA	2:B:924:ARG:CD	2.67	0.73
1:A:806:ILE:HD13	1:A:814:LEU:CG	2.19	0.73
1:A:806:ILE:CD1	1:A:814:LEU:CD2	2.67	0.73
1:A:1388:MET:CE	1:A:1395:ILE:HD13	2.18	0.73
9:I:39:ALA:O	9:I:40:THR:HG23	1.87	0.73
1:M:101:ILE:CD1	1:M:240:MET:SD	2.77	0.73
1:M:331:ILE:O	1:M:335:LEU:HD21	1.86	0.73
1:M:573:LYS:CB	1:M:574:PRO:CD	2.66	0.73
1:M:653:ASN:O	1:M:657:ARG:HB2	1.89	0.73
1:M:1395:ILE:CD1	1:M:1397:ARG:HD2	2.11	0.73
6:R:123:LEU:HD23	6:R:137:SER:HA	1.70	0.73
9:U:25:LEU:HD12	9:U:38:ALA:HB1	1.71	0.73
9:U:79:HIS:O	9:U:80:GLN:CB	2.31	0.73
1:A:573:LYS:CB	1:A:574:PRO:CD	2.66	0.72
1:A:696:VAL:HG22	1:A:727:ILE:HD11	1.71	0.72
1:A:1146:LEU:HD12	1:A:1274:LEU:CA	2.19	0.72
2:B:264:SER:CB	2:B:322:LYS:NZ	2.43	0.72
2:B:568:VAL:HG22	2:B:612:LEU:HB2	1.70	0.72
2:B:658:ASP:O	2:B:660:GLU:HB2	1.89	0.72
2:B:993:GLN:N	2:B:994:GLY:CA	2.50	0.72
3:C:137:ASP:CB	3:C:140:SER:HB2	2.19	0.72
7:G:39:CYS:SG	7:G:45:TYR:CD2	2.81	0.72
1:M:517:ILE:CG1	1:M:640:TRP:CD1	2.71	0.72
2:N:587:ARG:HH21	2:N:601:ILE:CD1	2.01	0.72
3:O:120:ARG:HB2	3:O:141:ARG:HB3	1.71	0.72
4:P:58:THR:C	4:P:62:PHE:HD2	1.93	0.72
4:P:108:ILE:CG2	4:P:111:LEU:HG	2.19	0.72
5:Q:28:GLY:N	5:Q:62:LYS:O	2.20	0.72
9:U:111:GLU:CG	9:U:112:GLU:N	2.36	0.72
1:A:388:PRO:HA	1:A:434:TYR:CE2	2.24	0.72
1:A:827:ARG:HH11	1:A:827:ARG:HB2	1.53	0.72
2:B:435:LYS:HB3	2:B:438:ILE:CG2	2.19	0.72
8:H:72:ALA:HA	8:H:124:ARG:HA	1.70	0.72
9:I:48:LEU:O	9:I:49:GLN:CB	2.36	0.72
9:I:65:ASP:CB	9:I:68:LEU:HD12	2.19	0.72
1:M:169:ASN:O	1:M:170:MET:HG2	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:178:ALA:C	1:M:180:PRO:HD3	2.09	0.72
1:M:467:ARG:HA	1:M:468:VAL:CB	2.06	0.72
1:M:573:LYS:HG2	8:T:75:ILE:H	1.55	0.72
4:P:84:ARG:HA	4:P:90:ARG:HD2	1.71	0.72
5:Q:5:GLU:O	5:Q:8:ILE:HG12	1.88	0.72
1:A:159:ASP:O	1:A:161:PHE:CE1	2.42	0.72
1:A:202:LEU:HB3	1:A:203:PRO:HD2	1.66	0.72
1:A:558:TRP:CH2	11:K:61:LYS:CG	2.70	0.72
1:A:592:ILE:HD13	1:A:592:ILE:N	2.03	0.72
1:A:1395:ILE:CD1	1:A:1397:ARG:HD2	2.09	0.72
2:B:216:PRO:HB2	2:B:218:PRO:HD3	1.71	0.72
2:B:538:ALA:O	2:B:540:ILE:N	2.22	0.72
3:C:67:GLY:HA3	3:C:170:LYS:HZ1	1.53	0.72
4:D:84:ARG:HA	4:D:90:ARG:HD2	1.71	0.72
6:F:61:GLY:O	6:F:62:LYS:CG	2.37	0.72
8:H:108:HIS:HD2	8:H:111:LEU:HD13	1.54	0.72
11:K:82:PRO:HA	11:K:85:VAL:HG23	1.70	0.72
1:M:71:THR:HG21	1:M:82:HIS:NE2	2.03	0.72
1:M:71:THR:CG2	1:M:72:CYS:SG	2.71	0.72
1:M:159:ASP:O	1:M:161:PHE:CE1	2.42	0.72
1:M:322:GLN:OE1	1:M:328:LEU:CD2	2.36	0.72
1:M:351:VAL:CG1	1:M:352:ASP:H	2.02	0.72
1:M:398:VAL:CG1	1:M:411:ILE:HD11	2.17	0.72
1:M:592:ILE:HD13	1:M:592:ILE:N	2.03	0.72
1:M:728:LEU:HD13	1:M:805:PHE:CE1	2.25	0.72
1:M:864:ASN:ND2	1:M:865:ALA:H	1.87	0.72
1:M:1092:VAL:CG1	1:M:1092:VAL:O	2.37	0.72
1:M:1161:PRO:HG2	1:M:1190:LYS:CB	2.18	0.72
2:N:568:VAL:HG22	2:N:612:LEU:HB2	1.70	0.72
6:R:123:LEU:HD22	6:R:137:SER:CA	2.17	0.72
7:S:111:VAL:HG13	7:S:111:VAL:O	1.88	0.72
1:A:90:LYS:HD3	1:A:282:VAL:HG12	1.70	0.72
1:A:654:GLY:O	1:A:658:VAL:HG23	1.88	0.72
1:A:822:HIS:NE2	2:B:753:SER:CB	2.49	0.72
1:A:919:ASN:O	1:A:920:SER:CB	2.37	0.72
1:A:1178:ALA:C	1:A:1180:PRO:HD2	2.08	0.72
1:A:1259:MET:C	1:A:1260:ILE:HG23	2.08	0.72
2:B:255:ILE:HD11	2:B:268:ILE:HD13	1.71	0.72
2:B:296:MET:HE3	2:B:372:LEU:C	2.09	0.72
1:M:55:LEU:C	1:M:55:LEU:HD13	2.10	0.72
1:M:94:HIS:H	1:M:98:LEU:HD11	1.53	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:271:LYS:HD3	1:M:322:GLN:CD	2.09	0.72
1:M:558:TRP:CH2	11:W:61:LYS:CG	2.70	0.72
1:M:1320:THR:HG23	1:M:1321:GLU:N	2.04	0.72
2:N:164:CYS:SG	2:N:165:ILE:N	2.62	0.72
2:N:753:SER:CB	2:N:754:PRO:HD3	2.17	0.72
9:U:6:TYR:O	9:U:7:CYS:HB3	1.87	0.72
9:U:65:ASP:CB	9:U:68:LEU:HD12	2.19	0.72
1:A:30:ARG:CG	1:A:244:VAL:HG11	2.20	0.72
1:A:36:LYS:O	1:A:37:ILE:HB	1.89	0.72
1:A:120:SER:HG	1:A:121:ASN:HB2	1.53	0.72
1:A:266:ASP:HA	1:A:267:ASP:CB	2.18	0.72
1:A:905:ILE:HD13	1:A:905:ILE:H	1.55	0.72
1:A:1160:ASP:OD1	9:I:23:ARG:HD3	1.89	0.72
4:D:108:ILE:CG2	4:D:111:LEU:HG	2.19	0.72
1:M:30:ARG:CG	1:M:244:VAL:HG11	2.20	0.72
1:M:117:ILE:CG2	1:M:118:ASP:N	2.52	0.72
1:M:119:SER:O	1:M:122:PRO:HA	1.89	0.72
1:M:559:VAL:H	1:M:560:PRO:HA	1.54	0.72
2:N:229:LEU:HA	2:N:230:GLU:HB3	0.75	0.72
2:N:452:TRP:HB2	2:N:461:ASN:ND2	2.04	0.72
2:N:538:ALA:O	2:N:540:ILE:N	2.22	0.72
1:A:55:LEU:HD13	1:A:55:LEU:C	2.10	0.72
1:A:231:ASN:ND2	1:A:234:TYR:HD2	1.87	0.72
1:A:516:GLN:HE22	2:B:1130:HIS:CD2	2.06	0.72
1:A:1170:LYS:HG2	1:A:1240:ILE:HD12	1.71	0.72
1:A:1191:GLN:O	1:A:1246:ILE:CG1	2.37	0.72
1:A:1191:GLN:O	1:A:1246:ILE:HG12	1.89	0.72
2:B:206:ASN:H	2:B:227:SER:HB3	1.54	0.72
2:B:472:TYR:CD2	2:B:1085:LYS:HE2	2.25	0.72
7:G:114:HIS:C	7:G:114:HIS:HD2	1.90	0.72
1:M:30:ARG:NE	1:M:244:VAL:CG2	2.53	0.72
1:M:853:ASP:HB3	1:M:864:ASN:ND2	2.04	0.72
1:M:1170:LYS:HE2	1:M:1240:ILE:HD12	1.70	0.72
2:N:412:ARG:O	2:N:416:LYS:HG3	1.89	0.72
2:N:832:GLN:HB2	2:N:982:THR:OG1	1.90	0.72
3:O:165:ALA:HB2	3:O:172:SER:HB3	1.71	0.72
8:T:108:HIS:HD2	8:T:111:LEU:HD13	1.54	0.72
1:A:87:GLU:O	1:A:88:LEU:HD23	1.87	0.72
1:A:117:ILE:CG2	1:A:118:ASP:N	2.52	0.72
1:A:398:VAL:CG1	1:A:411:ILE:HD11	2.17	0.72
1:A:433:ARG:HB2	1:A:436:TRP:CE3	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:567:PRO:O	1:A:578:TRP:CZ3	2.41	0.72
1:A:573:LYS:HG2	8:H:75:ILE:H	1.55	0.72
1:A:861:THR:HG21	1:A:863:ARG:HE	1.55	0.72
1:A:1317:ILE:HB	1:A:1318:ASN:HB3	1.71	0.72
2:B:391:ARG:NH1	2:B:615:ASP:HB3	2.05	0.72
1:M:48:GLN:HG3	1:M:50:PRO:CD	2.17	0.72
1:M:359:ILE:HD12	1:M:359:ILE:O	1.90	0.72
1:M:824:MET:HB3	2:N:500:LEU:HD12	1.70	0.72
1:M:863:ARG:HG2	1:M:869:ILE:HG22	1.72	0.72
1:M:919:ASN:O	1:M:920:SER:CB	2.37	0.72
2:N:695:GLU:O	2:N:699:GLN:HG3	1.89	0.72
5:Q:72:ILE:O	5:Q:72:ILE:HD12	1.89	0.72
8:T:63:LEU:O	8:T:63:LEU:CD2	2.30	0.72
11:W:59:GLY:O	11:W:60:TYR:HB3	1.88	0.72
1:A:398:VAL:HG12	1:A:421:LEU:HD11	1.71	0.72
1:A:728:LEU:HD13	1:A:805:PHE:CE1	2.25	0.72
1:A:778:GLY:C	1:A:1092:VAL:CG2	2.57	0.72
2:B:101:PRO:CG	2:B:111:TYR:CE1	2.72	0.72
2:B:452:TRP:HB2	2:B:461:ASN:ND2	2.04	0.72
2:B:767:MET:HB2	2:B:1083:ARG:O	1.90	0.72
3:C:38:ALA:HA	3:C:165:ALA:HB3	1.70	0.72
4:D:58:THR:C	4:D:62:PHE:HD2	1.93	0.72
5:E:199:THR:N	5:E:201:GLY:N	2.38	0.72
9:I:101:TYR:HB3	9:I:110:PHE:CZ	2.24	0.72
1:M:95:ILE:HD13	1:M:187:LEU:HD22	1.70	0.72
1:M:155:SER:HB2	1:M:169:ASN:HB3	1.72	0.72
1:M:231:ASN:HB3	1:M:235:ALA:H	1.52	0.72
1:M:905:ILE:HD13	1:M:905:ILE:H	1.55	0.72
1:M:1191:GLN:O	1:M:1246:ILE:HG12	1.89	0.72
7:S:10:LEU:HD22	7:S:35:VAL:HG21	1.69	0.72
7:S:122:PHE:CB	7:S:131:TYR:CE1	2.73	0.72
8:T:63:LEU:C	8:T:63:LEU:HD22	2.10	0.72
1:A:201:ASP:HB3	1:A:206:ARG:HH12	1.50	0.72
1:A:947:LYS:HE3	1:A:1023:ILE:HD12	1.70	0.72
1:A:1191:GLN:CA	1:A:1246:ILE:HG23	2.18	0.72
1:A:1348:GLU:HG3	5:E:193:ILE:HD12	1.72	0.72
2:B:200:GLN:OE1	2:B:487:PRO:HG2	1.90	0.72
7:G:79:LEU:HD12	7:G:81:ARG:HH21	1.55	0.72
1:M:231:ASN:ND2	1:M:234:TYR:HD2	1.87	0.72
1:M:271:LYS:HE2	1:M:328:LEU:HD12	1.70	0.72
1:M:639:ILE:HA	1:M:642:GLU:O	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:109:LEU:HD23	2:N:110:THR:O	1.90	0.72
2:N:435:LYS:HB3	2:N:438:ILE:CG2	2.19	0.72
4:P:24:MET:CG	7:S:4:PHE:CZ	2.64	0.72
7:S:144:VAL:CG1	7:S:164:MET:HE1	2.20	0.72
1:A:106:GLU:HB3	1:A:144:CYS:CB	2.20	0.72
1:A:169:ASN:O	1:A:170:MET:HG2	1.90	0.72
1:A:177:ALA:CB	1:A:179:GLN:HE21	2.01	0.72
1:A:178:ALA:C	1:A:180:PRO:CD	2.58	0.72
1:A:863:ARG:HG2	1:A:869:ILE:HG22	1.72	0.72
2:B:164:CYS:SG	2:B:165:ILE:N	2.62	0.72
2:B:753:SER:CB	2:B:754:PRO:HD3	2.18	0.72
2:B:1145:ASP:O	2:B:1147:TYR:N	2.22	0.72
3:C:165:ALA:HB2	3:C:172:SER:HB3	1.71	0.72
1:M:15:ARG:HH22	7:S:64:PRO:HG2	1.51	0.72
1:M:372:VAL:HG21	1:M:466:ILE:HG22	1.72	0.72
1:M:605:ASN:H	1:M:606:PRO:HA	1.54	0.72
1:M:614:GLU:O	1:M:616:GLY:N	2.21	0.72
1:M:1122:TYR:O	1:M:1123:LEU:HD13	1.90	0.72
1:M:1160:ASP:OD1	9:U:23:ARG:HD3	1.89	0.72
1:M:1170:LYS:HG2	1:M:1240:ILE:HD12	1.71	0.72
1:M:1260:ILE:HD12	9:U:30:ARG:HH21	1.55	0.72
4:P:61:TYR:CE2	7:S:105:GLY:O	2.43	0.72
8:T:116:LEU:O	8:T:118:HIS:N	2.23	0.72
1:A:94:HIS:H	1:A:98:LEU:CD1	2.03	0.71
1:A:559:VAL:H	1:A:560:PRO:HA	1.54	0.71
1:A:653:ASN:O	1:A:657:ARG:HB2	1.89	0.71
1:A:1320:THR:HG23	1:A:1321:GLU:N	2.04	0.71
2:B:213:LYS:O	2:B:214:ALA:HB2	1.89	0.71
2:B:329:VAL:CA	2:B:330:THR:CG2	2.61	0.71
2:B:399:LEU:HD23	2:B:402:LEU:HD12	1.71	0.71
2:B:841:ARG:HH22	12:L:63:ARG:C	1.94	0.71
4:D:11:ALA:HA	4:D:12:GLN:HB2	1.69	0.71
5:E:22:VAL:HG21	5:E:29:VAL:HG21	1.72	0.71
9:I:39:ALA:O	9:I:40:THR:CG2	2.38	0.71
11:K:59:GLY:O	11:K:60:TYR:HB3	1.88	0.71
1:M:154:LEU:H	1:M:174:GLY:N	1.86	0.71
1:M:182:ILE:CG2	1:M:190:TRP:O	2.37	0.71
1:M:190:TRP:CE3	1:M:204:GLU:O	2.43	0.71
1:M:232:GLU:O	1:M:232:GLU:CG	2.36	0.71
1:M:433:ARG:HB2	1:M:436:TRP:CE3	2.25	0.71
1:M:444:ASP:O	1:M:446:ASP:HB2	1.89	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:812:ARG:HH11	2:N:716:VAL:HG23	1.53	0.71
3:O:168:HIS:HD2	3:O:170:LYS:N	1.87	0.71
5:Q:72:ILE:HA	5:Q:101:THR:O	1.89	0.71
8:T:60:THR:HG23	8:T:61:SER:H	1.50	0.71
1:A:30:ARG:NE	1:A:244:VAL:CG2	2.53	0.71
1:A:260:GLY:N	2:B:924:ARG:CD	2.53	0.71
1:A:571:ILE:CG1	1:A:573:LYS:HE3	2.15	0.71
1:A:889:PHE:HZ	1:A:1020:LEU:HD21	1.54	0.71
1:A:1156:HIS:CE1	9:I:42:LYS:HG2	2.26	0.71
1:M:40:PRO:HB3	1:M:276:ILE:CB	2.20	0.71
1:M:310:MET:HE3	2:N:1198:MET:HG2	1.72	0.71
1:M:341:ARG:NH2	2:N:1190:LEU:CD1	2.53	0.71
1:M:352:ASP:HA	2:N:1095:ARG:HG2	1.72	0.71
1:M:379:THR:O	1:M:380:LEU:CD2	2.30	0.71
1:M:778:GLY:HA3	1:M:1091:GLY:O	1.90	0.71
1:M:824:MET:HB2	2:N:500:LEU:HB3	1.72	0.71
3:O:137:ASP:CB	3:O:140:SER:HB2	2.19	0.71
5:Q:56:THR:HG23	5:Q:56:THR:O	1.91	0.71
7:S:51:ASP:CB	7:S:55:ILE:HD11	2.20	0.71
1:A:773:GLN:HE22	1:A:780:ARG:HB2	1.52	0.71
2:B:278:VAL:N	2:B:279:PRO:CD	2.53	0.71
4:D:51:MET:O	4:D:55:MET:HB2	1.91	0.71
9:I:51:SER:O	9:I:52:ASN:HB3	1.88	0.71
1:M:321:LEU:HD22	1:M:325:GLY:C	2.09	0.71
1:M:1061:VAL:HG22	1:M:1062:SER:HB3	1.72	0.71
1:M:1317:ILE:HB	1:M:1318:ASN:HB3	1.71	0.71
2:N:1205:PHE:CE2	2:N:1210:LYS:CA	2.73	0.71
7:S:79:LEU:HD12	7:S:81:ARG:HH21	1.55	0.71
1:A:853:ASP:HB3	1:A:864:ASN:ND2	2.04	0.71
1:A:1192:SER:HB2	1:A:1244:ARG:HB3	1.71	0.71
1:A:1246:ILE:O	1:A:1247:ARG:HG2	1.90	0.71
1:A:1484:THR:HG23	1:A:1484:THR:O	1.89	0.71
2:B:109:LEU:HD23	2:B:110:THR:O	1.90	0.71
2:B:329:VAL:HG13	2:B:329:VAL:O	1.89	0.71
2:B:1205:PHE:CE2	2:B:1210:LYS:CA	2.73	0.71
7:G:51:ASP:CB	7:G:55:ILE:HD11	2.20	0.71
1:M:23:ILE:CG1	1:M:1419:ALA:O	2.38	0.71
1:M:77:ALA:C	1:M:79:CYS:H	1.94	0.71
1:M:84:GLY:O	1:M:247:VAL:N	2.24	0.71
1:M:877:ASP:CB	1:M:1372:ARG:HH22	2.03	0.71
1:M:1091:GLY:HA2	1:M:1092:VAL:HB	1.68	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1280:ARG:NH1	5:Q:6:LYS:HZ1	1.89	0.71
1:M:1284:ASN:HB3	1:M:1317:ILE:HD12	1.72	0.71
2:N:24:PHE:HD2	2:N:665:TRP:CE2	2.07	0.71
2:N:101:PRO:CG	2:N:111:TYR:CE1	2.72	0.71
2:N:841:ARG:HH22	12:X:63:ARG:C	1.94	0.71
4:P:24:MET:HG3	7:S:4:PHE:HE1	1.50	0.71
5:Q:101:THR:HG21	5:Q:126:THR:HG23	1.66	0.71
5:Q:199:THR:N	5:Q:201:GLY:N	2.38	0.71
8:T:38:LEU:HD23	8:T:104:ILE:CG2	2.20	0.71
8:T:57:LEU:C	8:T:57:LEU:HD12	2.11	0.71
1:A:119:SER:O	1:A:122:PRO:HA	1.89	0.71
1:A:359:ILE:O	1:A:359:ILE:HD12	1.90	0.71
1:A:372:VAL:HG21	1:A:466:ILE:HG22	1.72	0.71
1:A:381:THR:OG1	1:A:382:TYR:C	2.29	0.71
1:A:848:VAL:O	1:A:852:GLU:HG3	1.90	0.71
1:A:1122:TYR:O	1:A:1123:LEU:HD13	1.91	0.71
1:A:1253:ALA:HB1	1:A:1254:GLU:CB	2.20	0.71
5:E:72:ILE:HD12	5:E:72:ILE:O	1.89	0.71
9:I:8:ILE:O	9:I:9:GLU:HB2	1.90	0.71
9:I:25:LEU:CB	9:I:38:ALA:HB3	2.20	0.71
1:M:36:LYS:O	1:M:37:ILE:HB	1.89	0.71
1:M:1290:MET:SD	1:M:1310:TRP:HB3	2.30	0.71
1:M:1348:GLU:HG3	5:Q:193:ILE:HD12	1.71	0.71
2:N:350:ILE:HG22	2:N:351:THR:HG22	1.70	0.71
1:A:1450:TYR:HB3	7:G:60:GLY:O	1.89	0.71
2:B:273:ARG:CZ	2:B:310:ILE:HD12	2.20	0.71
2:B:869:SER:C	2:B:870:THR:CG2	2.58	0.71
2:B:944:THR:HA	12:L:39:ILE:HG21	1.73	0.71
2:B:1207:LYS:CG	2:B:1208:ASN:H	2.01	0.71
4:D:84:ARG:O	4:D:90:ARG:HD2	1.90	0.71
7:G:122:PHE:CB	7:G:131:TYR:CE1	2.73	0.71
8:H:38:LEU:HD23	8:H:104:ILE:CG2	2.20	0.71
9:I:53:VAL:CG1	9:I:56:THR:CB	2.58	0.71
1:M:506:GLU:CD	1:M:1444:THR:HG21	2.11	0.71
2:N:273:ARG:CD	2:N:310:ILE:CD1	2.26	0.71
2:N:273:ARG:CZ	2:N:310:ILE:HD12	2.20	0.71
7:S:80:TRP:CH2	7:S:107:LEU:HB3	2.24	0.71
8:T:80:VAL:HG22	8:T:95:VAL:CG2	2.21	0.71
11:W:82:PRO:HA	11:W:85:VAL:HG23	1.70	0.71
1:A:95:ILE:CD1	1:A:314:ILE:HD13	2.20	0.71
1:A:352:ASP:HA	2:B:1095:ARG:HG2	1.72	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:864:ASN:ND2	1:A:865:ALA:H	1.87	0.71
1:A:1125:PRO:HB3	1:A:1129:ALA:N	2.05	0.71
1:A:1173:VAL:HG12	1:A:1177:PHE:HE2	0.66	0.71
4:D:25:LEU:CD1	7:G:5:LEU:CB	2.61	0.71
7:G:101:PHE:CE1	7:G:110:PHE:CD1	2.79	0.71
1:M:75:THR:CB	1:M:76:MET:HA	2.17	0.71
1:M:696:VAL:HG22	1:M:727:ILE:HD11	1.71	0.71
2:N:659:PRO:CA	2:N:660:GLU:C	2.48	0.71
2:N:767:MET:HB2	2:N:1083:ARG:O	1.90	0.71
4:P:84:ARG:O	4:P:90:ARG:HD2	1.91	0.71
4:P:108:ILE:HG22	4:P:111:LEU:HG	1.72	0.71
7:S:100:PHE:CB	7:S:111:VAL:HG11	2.07	0.71
7:S:101:PHE:CE1	7:S:110:PHE:CD1	2.79	0.71
1:A:40:PRO:HB3	1:A:276:ILE:CB	2.20	0.71
1:A:94:HIS:H	1:A:98:LEU:HD11	1.53	0.71
2:B:212:LYS:NZ	2:B:381:PRO:HG2	2.05	0.71
3:C:168:HIS:HD2	3:C:170:LYS:N	1.87	0.71
6:F:123:LEU:HD23	6:F:137:SER:HA	1.70	0.71
1:M:230:LEU:HD11	1:M:237:PRO:CG	2.01	0.71
1:M:351:VAL:HG13	1:M:352:ASP:H	1.54	0.71
1:M:398:VAL:HG12	1:M:421:LEU:HD11	1.71	0.71
1:M:848:VAL:O	1:M:852:GLU:HG3	1.90	0.71
1:M:1146:LEU:CG	1:M:1274:LEU:HA	2.21	0.71
1:M:1192:SER:HB2	1:M:1244:ARG:HB3	1.71	0.71
1:M:1290:MET:CE	1:M:1312:LEU:HD21	2.20	0.71
2:N:229:LEU:HD12	2:N:231:ARG:NE	2.06	0.71
2:N:273:ARG:NH1	2:N:310:ILE:HG13	2.06	0.71
2:N:378:ARG:CG	9:U:52:ASN:ND2	2.53	0.71
4:P:58:THR:HB	4:P:62:PHE:CD2	2.25	0.71
9:U:101:TYR:HB3	9:U:110:PHE:CZ	2.24	0.71
1:A:341:ARG:NH2	2:B:1190:LEU:CD1	2.53	0.71
1:A:605:ASN:H	1:A:606:PRO:HA	1.54	0.71
2:B:832:GLN:HB2	2:B:982:THR:OG1	1.90	0.71
5:E:97:HIS:HB2	5:E:99:HIS:CE1	2.26	0.71
7:G:10:LEU:HD22	7:G:35:VAL:HG21	1.69	0.71
7:G:80:TRP:CH2	7:G:107:LEU:HB3	2.24	0.71
7:G:115:LEU:HD22	7:G:163:THR:CG2	2.21	0.71
9:I:19:ASP:OD2	9:I:26:ARG:HG3	1.90	0.71
1:M:50:PRO:C	1:M:51:ARG:CG	2.58	0.71
1:M:150:CYS:HB2	1:M:176:GLY:O	1.90	0.71
1:M:195:ARG:C	1:M:195:ARG:HD2	2.11	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:382:TYR:CE2	1:M:440:ARG:NE	2.59	0.71
1:M:1502:ALA:H	4:P:84:ARG:HD2	1.53	0.71
1:M:1504:ALA:C	1:M:1507:PRO:HD2	2.11	0.71
2:N:472:TYR:CD2	2:N:1085:LYS:HE2	2.25	0.71
8:T:59:ILE:O	8:T:60:THR:CG2	2.36	0.71
1:A:65:ARG:N	1:A:67:PHE:CE1	2.59	0.71
1:A:94:HIS:O	1:A:98:LEU:HB2	1.91	0.71
1:A:639:ILE:HA	1:A:642:GLU:O	1.90	0.71
1:A:1061:VAL:HG22	1:A:1062:SER:HB3	1.72	0.71
1:A:1293:HIS:HD2	1:A:1311:VAL:HB	1.56	0.71
1:M:419:ILE:HG21	1:M:425:LYS:CE	2.21	0.71
1:M:652:PHE:O	1:M:656:GLN:HB3	1.91	0.71
1:M:1253:ALA:HB1	1:M:1254:GLU:CB	2.20	0.71
1:M:1450:TYR:CB	7:S:60:GLY:O	2.39	0.71
2:N:281:ARG:HB2	9:U:6:TYR:CD1	2.26	0.71
5:Q:22:VAL:HG13	5:Q:27:TYR:HB2	1.73	0.71
1:A:180:PRO:HG3	1:A:193:TRP:HE1	1.55	0.70
1:A:250:PRO:O	1:A:253:ARG:N	2.23	0.70
1:A:343:ARG:CG	2:B:1121:GLU:OE1	2.38	0.70
1:A:445:GLY:HA3	1:A:465:ARG:HB3	1.72	0.70
2:B:752:GLN:HG3	2:B:1010:MET:HE1	1.70	0.70
4:D:61:TYR:CE2	7:G:105:GLY:O	2.43	0.70
1:M:250:PRO:O	1:M:253:ARG:N	2.23	0.70
1:M:267:ASP:N	1:M:268:LEU:HB3	2.04	0.70
1:M:1009:ILE:HG22	5:Q:162:ARG:NH2	2.06	0.70
1:A:382:TYR:CE1	1:A:446:ASP:OD1	2.44	0.70
1:A:433:ARG:CB	1:A:436:TRP:CD2	2.74	0.70
2:B:229:LEU:CD1	2:B:231:ARG:CZ	2.69	0.70
2:B:407:PHE:O	2:B:410:MET:HB2	1.90	0.70
4:D:108:ILE:HG22	4:D:111:LEU:HG	1.72	0.70
8:H:57:LEU:C	8:H:57:LEU:HD12	2.11	0.70
1:M:1246:ILE:O	1:M:1247:ARG:HG2	1.90	0.70
1:M:1282:VAL:CG1	1:M:1285:ILE:CD1	2.68	0.70
2:N:42:VAL:C	2:N:44:ASN:HB2	2.12	0.70
3:O:125:SER:O	3:O:126:SER:CB	2.35	0.70
7:S:114:HIS:C	7:S:114:HIS:HD2	1.90	0.70
1:A:150:CYS:HB2	1:A:176:GLY:C	2.11	0.70
1:A:267:ASP:N	1:A:268:LEU:HB3	2.04	0.70
1:A:336:LYS:HB2	1:A:1410:GLU:OE1	1.89	0.70
2:B:329:VAL:CA	2:B:330:THR:HG23	2.19	0.70
2:B:686:MET:H	2:B:728:THR:CG2	2.05	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:754:PRO:O	2:B:758:TYR:CE2	2.45	0.70
7:G:96:ASN:C	7:G:98:MET:H	1.95	0.70
8:H:63:LEU:C	8:H:63:LEU:HD22	2.11	0.70
8:H:116:LEU:O	8:H:118:HIS:N	2.23	0.70
9:I:7:CYS:HB2	9:I:34:TYR:CD2	2.26	0.70
1:M:382:TYR:HE2	1:M:440:ARG:NE	1.88	0.70
1:M:861:THR:HG21	1:M:863:ARG:HE	1.55	0.70
1:M:1107:ILE:HG23	1:M:1338:PHE:HE1	1.56	0.70
1:M:1125:PRO:HB3	1:M:1129:ALA:N	2.05	0.70
1:M:1402:ALA:HA	1:M:1405:ARG:HD2	1.73	0.70
2:N:388:GLY:H	2:N:503:THR:HG21	1.57	0.70
2:N:944:THR:HA	12:X:39:ILE:HG21	1.73	0.70
1:A:77:ALA:C	1:A:79:CYS:H	1.94	0.70
1:A:84:GLY:O	1:A:247:VAL:N	2.24	0.70
1:A:419:ILE:HG21	1:A:425:LYS:CE	2.21	0.70
1:A:432:LEU:HD23	1:A:436:TRP:HZ2	1.57	0.70
1:A:1071:ALA:HA	1:A:1373:HIS:CD2	2.27	0.70
2:B:281:ARG:HB2	9:I:6:TYR:CD1	2.25	0.70
2:B:741:LEU:HD22	2:B:760:SER:HA	1.73	0.70
7:G:144:VAL:HG13	7:G:170:GLY:O	1.91	0.70
8:H:80:VAL:HG22	8:H:95:VAL:CG2	2.21	0.70
1:M:152:THR:O	1:M:174:GLY:CA	2.39	0.70
3:O:212:GLU:CB	3:O:213:PRO:HA	2.15	0.70
5:Q:97:HIS:HB2	5:Q:99:HIS:CE1	2.26	0.70
7:S:120:MET:HE3	7:S:138:ILE:HD12	1.73	0.70
1:A:108:VAL:CG1	1:A:114:LYS:N	2.52	0.70
1:A:155:SER:HB2	1:A:169:ASN:HB3	1.72	0.70
1:A:207:LEU:H	1:A:207:LEU:CD2	1.87	0.70
1:A:213:VAL:HG12	1:A:217:PHE:CE2	2.26	0.70
1:A:921:ILE:O	1:A:922:GLU:CB	2.40	0.70
1:A:1402:ALA:HA	1:A:1405:ARG:HD2	1.73	0.70
1:M:100:LYS:NZ	1:M:1420:ALA:O	2.23	0.70
1:M:189:LEU:O	1:M:190:TRP:CD1	2.43	0.70
1:M:311:ASP:HB2	1:M:314:ILE:CG1	2.22	0.70
1:M:428:GLY:O	1:M:430:ILE:CD1	2.37	0.70
1:M:467:ARG:CA	1:M:468:VAL:HB	2.15	0.70
1:M:946:CYS:CB	1:M:949:ILE:HD11	2.19	0.70
1:M:1338:PHE:HA	1:M:1341:ILE:HG13	1.73	0.70
2:N:486:THR:CG2	2:N:521:LEU:HB3	2.22	0.70
5:Q:22:VAL:HG21	5:Q:29:VAL:HG21	1.72	0.70
9:U:53:VAL:CG1	9:U:56:THR:CB	2.58	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:420:ASP:OD1	1:A:422:ARG:HB2	1.92	0.70
1:A:860:GLY:HA2	1:A:874:TYR:CE2	2.26	0.70
1:A:1161:PRO:HG2	1:A:1190:LYS:CB	2.18	0.70
2:B:421:CYS:O	2:B:426:ARG:N	2.25	0.70
2:B:728:THR:HG23	2:B:729:HIS:ND1	2.06	0.70
2:B:947:GLN:HA	2:B:948:GLU:C	2.11	0.70
1:M:266:ASP:HA	1:M:267:ASP:CB	2.18	0.70
1:M:581:LYS:NZ	1:M:621:GLY:O	2.20	0.70
1:M:646:GLU:N	1:M:648:CYS:CB	2.42	0.70
1:M:793:PHE:CE1	1:M:817:GLN:OE1	2.44	0.70
1:M:810:TYR:HB3	2:N:750:HIS:O	1.92	0.70
1:M:1075:ILE:O	1:M:1078:PRO:CG	2.39	0.70
1:M:1089:TYR:N	1:M:1090:ALA:HB2	2.06	0.70
2:N:200:GLN:OE1	2:N:487:PRO:HG2	1.91	0.70
2:N:278:VAL:N	2:N:279:PRO:CD	2.53	0.70
2:N:728:THR:HG23	2:N:729:HIS:ND1	2.06	0.70
4:P:88:PHE:CZ	7:S:86:GLU:HG2	2.27	0.70
1:A:208:LEU:HD22	1:A:209:SER:N	2.05	0.70
1:A:269:THR:O	1:A:272:LEU:N	2.24	0.70
1:A:356:ARG:HH21	1:A:492:GLU:HB2	1.57	0.70
1:A:877:ASP:CB	1:A:1372:ARG:HH22	2.03	0.70
1:A:963:VAL:HA	1:A:966:ILE:HG12	1.73	0.70
1:A:1338:PHE:HA	1:A:1341:ILE:HG13	1.73	0.70
1:A:1484:THR:H	1:A:1485:PRO:HD3	1.55	0.70
2:B:229:LEU:HD12	2:B:231:ARG:NE	2.06	0.70
2:B:1205:PHE:CE2	2:B:1210:LYS:O	2.45	0.70
3:C:27:ALA:HB2	11:K:47:ASN:HB2	1.73	0.70
1:M:94:HIS:H	1:M:98:LEU:CD1	2.05	0.70
1:M:318:PRO:C	1:M:319:GLN:HG3	2.12	0.70
1:M:1071:ALA:HA	1:M:1373:HIS:CD2	2.27	0.70
1:M:1263:ASP:HA	1:M:1266:LEU:HD12	1.74	0.70
2:N:211:PHE:HZ	2:N:384:ARG:NH1	1.90	0.70
2:N:229:LEU:CD1	2:N:231:ARG:CZ	2.69	0.70
2:N:685:VAL:CG1	2:N:728:THR:HG21	2.22	0.70
3:O:27:ALA:HB2	11:W:47:ASN:HB2	1.73	0.70
10:V:16:ASP:OD2	10:V:17:LYS:HG3	1.92	0.70
1:A:196:GLY:O	1:A:197:LYS:CB	2.32	0.70
1:A:208:LEU:CD2	1:A:209:SER:H	2.02	0.70
1:A:550:ASN:O	1:A:551:ALA:HB2	1.92	0.70
1:A:776:VAL:HG22	1:A:776:VAL:O	1.90	0.70
1:M:162:ASP:CA	1:M:165:ASN:HB2	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:550:ASN:O	1:M:551:ALA:HB2	1.92	0.70
2:N:759:GLN:HG3	2:N:972:ARG:C	2.11	0.70
10:V:49:ILE:HD12	10:V:50:LEU:N	2.07	0.70
1:A:165:ASN:CB	1:A:166:PRO:CA	2.33	0.70
1:A:187:LEU:HD12	1:A:304:PHE:CE1	2.27	0.70
1:A:351:VAL:CG1	1:A:352:ASP:H	2.02	0.70
1:A:368:ASP:OD2	1:A:649:LYS:CE	2.40	0.70
1:A:523:ASN:ND2	1:A:523:ASN:O	2.24	0.70
1:A:1179:ILE:N	1:A:1180:PRO:CD	2.54	0.70
4:D:85:PHE:CZ	4:D:115:ILE:HG13	2.26	0.70
10:J:16:ASP:OD2	10:J:17:LYS:HG3	1.92	0.70
1:M:1275:GLU:C	1:M:1277:ILE:HG23	2.11	0.70
2:N:556:ASN:CG	2:N:557:PRO:HD3	2.12	0.70
2:N:869:SER:C	2:N:870:THR:CG2	2.58	0.70
2:N:1205:PHE:CE2	2:N:1210:LYS:O	2.45	0.70
3:O:130:LEU:CB	3:O:131:GLY:CA	2.70	0.70
4:P:51:MET:O	4:P:55:MET:HB2	1.91	0.70
7:S:96:ASN:C	7:S:98:MET:H	1.95	0.70
1:A:8:PRO:CG	2:B:1148:ARG:NE	2.54	0.70
1:A:110:TRP:CH2	1:A:180:PRO:HG2	2.27	0.70
1:A:512:MET:HB3	1:A:514:PRO:HD2	1.74	0.70
1:A:1390:ILE:CD1	1:A:1395:ILE:HG22	2.22	0.70
2:B:486:THR:CG2	2:B:521:LEU:HB3	2.22	0.70
2:B:831:ASN:HD22	2:B:832:GLN:N	1.89	0.70
3:C:130:LEU:CB	3:C:131:GLY:CA	2.70	0.70
4:D:88:PHE:CZ	7:G:86:GLU:HG2	2.27	0.70
7:G:47:ILE:HD12	7:G:78:VAL:CG1	2.22	0.70
7:G:100:PHE:CB	7:G:111:VAL:HG12	2.10	0.70
1:M:116:LYS:HG2	1:M:117:ILE:H	1.57	0.70
1:M:260:GLY:O	1:M:261:THR:C	2.30	0.70
1:M:433:ARG:CB	1:M:436:TRP:CD2	2.74	0.70
1:M:512:MET:HB3	1:M:514:PRO:HD2	1.74	0.70
1:M:778:GLY:HA2	1:M:1091:GLY:C	2.12	0.70
1:M:921:ILE:O	1:M:922:GLU:CB	2.40	0.70
7:S:102:ALA:O	7:S:103:ASN:CG	2.30	0.70
1:A:88:LEU:CB	1:A:243:THR:O	2.36	0.69
1:A:154:LEU:N	1:A:173:GLY:HA2	2.07	0.69
1:A:193:TRP:CZ3	1:A:206:ARG:CB	2.75	0.69
1:A:672:ILE:O	1:A:675:THR:N	2.25	0.69
1:A:727:ILE:HG13	1:A:728:LEU:N	2.06	0.69
1:A:1228:PHE:CE2	1:A:1246:ILE:HD13	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:42:VAL:C	2:B:44:ASN:HB2	2.12	0.69
2:B:872:LEU:HG	2:B:872:LEU:O	1.91	0.69
4:D:80:ILE:HD11	4:D:130:LEU:CD1	2.16	0.69
5:E:56:THR:HG23	5:E:56:THR:O	1.91	0.69
12:L:48:VAL:O	12:L:49:MET:HB2	1.92	0.69
1:M:192:SER:CB	1:M:202:LEU:C	2.53	0.69
1:M:269:THR:O	1:M:272:LEU:N	2.24	0.69
1:M:860:GLY:HA2	1:M:874:TYR:CE2	2.26	0.69
1:M:1295:ILE:HG22	1:M:1307:ALA:O	1.92	0.69
2:N:754:PRO:O	2:N:758:TYR:CE2	2.45	0.69
2:N:872:LEU:HG	2:N:872:LEU:O	1.91	0.69
7:S:115:LEU:HD22	7:S:163:THR:CG2	2.21	0.69
8:T:75:ILE:HG12	8:T:122:LEU:HD23	1.74	0.69
1:A:480:VAL:O	1:A:480:VAL:HG12	1.93	0.69
1:A:516:GLN:NE2	2:B:1130:HIS:CD2	2.60	0.69
1:A:652:PHE:O	1:A:656:GLN:HB3	1.91	0.69
1:A:1009:ILE:HG22	5:E:162:ARG:NH2	2.06	0.69
2:B:412:ARG:O	2:B:416:LYS:HG3	1.92	0.69
7:G:59:LYS:HG3	7:G:60:GLY:HA2	1.74	0.69
1:M:338:LYS:CD	1:M:339:GLU:H	2.05	0.69
1:M:381:THR:OG1	1:M:382:TYR:C	2.29	0.69
1:M:420:ASP:OD1	1:M:422:ARG:HB2	1.92	0.69
1:M:1094:SER:O	1:M:1095:LYS:HD2	1.91	0.69
2:N:262:ILE:CG2	2:N:323:ARG:O	2.40	0.69
2:N:551:THR:O	2:N:575:VAL:HG12	1.91	0.69
7:S:149:VAL:CG2	7:S:163:THR:HG23	2.22	0.69
9:U:5:GLN:O	9:U:14:LEU:HD12	1.91	0.69
1:A:73:GLY:O	2:B:1163:TYR:CE2	2.45	0.69
1:A:106:GLU:HB2	1:A:144:CYS:SG	2.28	0.69
1:A:116:LYS:HG2	1:A:117:ILE:H	1.57	0.69
1:A:260:GLY:O	1:A:261:THR:C	2.30	0.69
1:A:467:ARG:CA	1:A:468:VAL:HB	2.14	0.69
1:A:646:GLU:N	1:A:648:CYS:CB	2.42	0.69
1:A:1094:SER:O	1:A:1095:LYS:HD2	1.91	0.69
1:A:1466:PRO:O	1:A:1469:ALA:CB	2.40	0.69
1:A:1478:LEU:CD2	4:D:45:THR:HB	2.22	0.69
2:B:216:PRO:HB2	2:B:217:SER:CA	2.23	0.69
2:B:262:ILE:CG2	2:B:323:ARG:O	2.40	0.69
2:B:273:ARG:NH1	2:B:310:ILE:HG13	2.06	0.69
2:B:703:GLY:C	2:B:704:TYR:HD1	1.95	0.69
1:M:71:THR:CG2	2:N:1160:ILE:HG23	2.18	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:120:SER:CA	1:M:121:ASN:C	2.61	0.69
1:M:328:LEU:O	1:M:328:LEU:CD1	2.36	0.69
1:M:356:ARG:HH21	1:M:492:GLU:HB2	1.57	0.69
1:M:445:GLY:HA3	1:M:465:ARG:HB3	1.72	0.69
1:M:510:ILE:HD11	2:N:1132:CYS:SG	2.32	0.69
2:N:947:GLN:HA	2:N:948:GLU:C	2.11	0.69
1:A:59:ARG:N	1:A:60:LEU:HG	2.07	0.69
1:A:195:ARG:HB3	1:A:196:GLY:CA	2.23	0.69
1:A:318:PRO:C	1:A:319:GLN:HG3	2.12	0.69
1:A:605:ASN:HD22	1:A:605:ASN:N	1.90	0.69
1:A:781:ILE:HG12	1:A:821:PHE:HE2	1.51	0.69
1:A:816:PRO:CB	2:B:689:MET:HE1	2.21	0.69
2:B:116:TYR:CE1	2:B:151:PHE:HB2	2.28	0.69
2:B:427:GLU:O	2:B:428:PHE:CD1	2.46	0.69
7:G:51:ASP:CA	7:G:55:ILE:CD1	2.59	0.69
9:I:25:LEU:HB2	9:I:38:ALA:HB3	1.73	0.69
10:J:49:ILE:HD12	10:J:50:LEU:N	2.07	0.69
1:M:59:ARG:N	1:M:60:LEU:HG	2.07	0.69
1:M:776:VAL:O	1:M:776:VAL:HG22	1.90	0.69
1:M:1290:MET:HG3	1:M:1310:TRP:CE3	2.26	0.69
2:N:741:LEU:HD22	2:N:760:SER:HA	1.73	0.69
7:S:144:VAL:HG13	7:S:170:GLY:O	1.91	0.69
9:U:6:TYR:O	9:U:7:CYS:CB	2.40	0.69
1:A:15:ARG:HH11	1:A:1438:GLN:HE21	1.40	0.69
1:A:120:SER:CA	1:A:121:ASN:C	2.61	0.69
1:A:338:LYS:CD	1:A:339:GLU:H	2.05	0.69
1:A:517:ILE:HD11	1:A:640:TRP:NE1	2.05	0.69
2:B:551:THR:O	2:B:575:VAL:HG12	1.91	0.69
2:B:556:ASN:CG	2:B:557:PRO:HD3	2.12	0.69
2:B:831:ASN:HD22	2:B:831:ASN:C	1.94	0.69
7:G:35:VAL:HG13	7:G:46:ILE:CD1	2.22	0.69
1:M:646:GLU:N	1:M:648:CYS:N	2.41	0.69
1:M:1228:PHE:CE2	1:M:1246:ILE:HD13	2.27	0.69
2:N:421:CYS:O	2:N:426:ARG:N	2.25	0.69
2:N:1105:ARG:NH1	2:N:1186:TYR:CE1	2.60	0.69
4:P:85:PHE:CZ	4:P:115:ILE:HG13	2.26	0.69
9:U:19:ASP:OD2	9:U:26:ARG:HG3	1.92	0.69
1:A:105:LEU:HD13	1:A:182:ILE:CD1	2.08	0.69
1:A:510:ILE:HD11	2:B:1132:CYS:SG	2.32	0.69
2:B:685:VAL:CG1	2:B:728:THR:HG21	2.22	0.69
2:B:1058:PHE:CE1	3:C:193:TRP:CD1	2.80	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:61:GLY:O	6:F:62:LYS:HG2	1.93	0.69
8:H:75:ILE:HG12	8:H:122:LEU:HD23	1.74	0.69
9:I:58:VAL:O	9:I:60:HIS:N	2.26	0.69
1:M:260:GLY:N	2:N:924:ARG:HD3	2.07	0.69
1:M:727:ILE:HG13	1:M:728:LEU:N	2.06	0.69
1:M:1144:THR:O	1:M:1145:THR:HG22	1.93	0.69
1:M:1179:ILE:N	1:M:1180:PRO:CD	2.54	0.69
1:M:1412:VAL:HG13	1:M:1413:GLU:CG	2.22	0.69
2:N:427:GLU:O	2:N:428:PHE:CD1	2.46	0.69
2:N:831:ASN:C	2:N:831:ASN:HD22	1.94	0.69
2:N:941:VAL:HG12	2:N:955:VAL:HG13	1.75	0.69
9:U:3:ASN:N	9:U:3:ASN:ND2	2.40	0.69
9:U:7:CYS:HB2	9:U:34:TYR:CD2	2.27	0.69
9:U:48:LEU:O	9:U:49:GLN:HB3	1.93	0.69
12:X:48:VAL:O	12:X:49:MET:HB2	1.92	0.69
1:A:386:VAL:HG21	1:A:436:TRP:HE1	1.58	0.69
1:A:1075:ILE:O	1:A:1078:PRO:CG	2.39	0.69
1:A:1107:ILE:HG23	1:A:1338:PHE:CE1	2.28	0.69
1:A:1166:ILE:CB	1:A:1167:GLU:HB3	2.23	0.69
1:A:1177:PHE:O	1:A:1180:PRO:CG	2.40	0.69
1:A:1411:THR:O	1:A:1412:VAL:CG1	2.33	0.69
1:A:1412:VAL:HG13	1:A:1413:GLU:CG	2.22	0.69
1:A:1450:TYR:CE1	7:G:61:ARG:CB	2.76	0.69
2:B:941:VAL:HG12	2:B:955:VAL:HG13	1.75	0.69
7:G:149:VAL:CG2	7:G:163:THR:HG23	2.22	0.69
8:H:38:LEU:HD23	8:H:104:ILE:HG22	1.74	0.69
1:M:141:TRP:HA	1:M:144:CYS:SG	2.33	0.69
1:M:177:ALA:HB2	1:M:179:GLN:HG3	1.71	0.69
1:M:1265:PHE:O	1:M:1269:ILE:HG13	1.92	0.69
3:O:129:SER:HB2	3:O:130:LEU:CA	2.23	0.69
7:S:10:LEU:CD2	7:S:35:VAL:CG2	2.59	0.69
7:S:119:ASP:O	7:S:133:GLY:HA2	1.92	0.69
10:V:47:ARG:O	10:V:51:THR:HG22	1.93	0.69
1:A:177:ALA:CB	1:A:178:ALA:O	2.39	0.69
1:A:379:THR:O	1:A:380:LEU:CD2	2.30	0.69
1:A:386:VAL:HG21	1:A:436:TRP:NE1	2.07	0.69
1:A:428:GLY:O	1:A:430:ILE:CD1	2.37	0.69
1:A:815:THR:CG2	2:B:715:ARG:HB3	2.13	0.69
1:A:868:ASP:OD2	1:A:1384:ARG:NH1	2.26	0.69
1:A:1228:PHE:CD2	1:A:1246:ILE:CD1	2.75	0.69
1:A:1228:PHE:HE2	1:A:1246:ILE:HD13	1.56	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1348:GLU:HG2	5:E:207:ARG:HH12	1.58	0.69
2:B:330:THR:O	2:B:334:ARG:HG3	1.92	0.69
2:B:694:LEU:HD23	2:B:727:TRP:CD1	2.28	0.69
4:D:102:GLU:O	4:D:106:THR:HG23	1.92	0.69
5:E:22:VAL:HG13	5:E:27:TYR:HB2	1.73	0.69
9:I:6:TYR:O	9:I:7:CYS:CB	2.41	0.69
1:M:73:GLY:O	2:N:1163:TYR:CE2	2.45	0.69
1:M:192:SER:HB3	1:M:202:LEU:CA	2.20	0.69
1:M:271:LYS:HD3	1:M:322:GLN:HE22	1.55	0.69
1:M:338:LYS:HG2	1:M:339:GLU:H	1.58	0.69
1:M:395:GLN:HG3	1:M:432:LEU:HD12	1.73	0.69
1:M:419:ILE:HG22	1:M:419:ILE:O	1.92	0.69
1:M:516:GLN:NE2	2:N:1130:HIS:CD2	2.60	0.69
1:M:605:ASN:HD22	1:M:605:ASN:N	1.90	0.69
1:M:1177:PHE:O	1:M:1180:PRO:CG	2.40	0.69
1:M:1248:ASP:HA	1:M:1250:ASP:N	2.08	0.69
2:N:116:TYR:CE1	2:N:151:PHE:HB2	2.28	0.69
2:N:216:PRO:HB2	2:N:217:SER:CA	2.23	0.69
2:N:229:LEU:HD11	2:N:231:ARG:HH21	1.58	0.69
2:N:694:LEU:HD23	2:N:727:TRP:CD1	2.28	0.69
2:N:753:SER:HB3	2:N:754:PRO:CD	2.22	0.69
2:N:869:SER:O	2:N:870:THR:CG2	2.37	0.69
4:P:99:GLU:CG	4:P:124:LEU:HD11	2.18	0.69
4:P:102:GLU:O	4:P:106:THR:HG23	1.92	0.69
7:S:35:VAL:HG13	7:S:46:ILE:CD1	2.22	0.69
7:S:116:VAL:CG1	7:S:117:PRO:CD	2.66	0.69
8:T:38:LEU:HD23	8:T:104:ILE:HG22	1.74	0.69
1:A:6:PHE:CE2	1:A:78:ASP:OD2	2.46	0.69
1:A:25:SER:HB3	1:A:239:TRP:CE2	2.28	0.69
1:A:119:SER:N	1:A:120:SER:CB	2.49	0.69
1:A:147:LYS:HG2	1:A:148:MET:N	2.07	0.69
1:A:261:THR:O	1:A:262:SER:CB	2.33	0.69
1:A:836:LYS:HA	1:A:840:THR:HG23	1.74	0.69
1:A:1107:ILE:HG23	1:A:1338:PHE:HE1	1.56	0.69
1:A:1265:PHE:O	1:A:1269:ILE:HG13	1.92	0.69
2:B:243:LEU:C	2:B:244:MET:HG2	2.13	0.69
7:G:102:ALA:O	7:G:103:ASN:CG	2.30	0.69
8:H:7:LEU:HD21	8:H:110:LYS:HD3	1.75	0.69
10:J:47:ARG:O	10:J:51:THR:HG22	1.93	0.69
1:M:95:ILE:HG21	1:M:314:ILE:CD1	2.23	0.69
1:M:773:GLN:NE2	1:M:780:ARG:CB	2.55	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1348:GLU:HG2	5:Q:207:ARG:HH12	1.58	0.69
2:N:391:ARG:HG2	2:N:618:ARG:HH21	1.57	0.69
1:A:646:GLU:CA	1:A:648:CYS:H	2.05	0.69
1:A:713:GLY:C	1:A:714:MET:HG2	2.13	0.69
1:A:1485:PRO:O	1:A:1486:TYR:CB	2.38	0.69
2:B:1061:MET:HE1	2:B:1076:LEU:HD12	1.74	0.69
8:H:60:THR:CG2	8:H:61:SER:N	2.53	0.69
9:I:24:VAL:CG1	9:I:25:LEU:N	2.55	0.69
9:I:65:ASP:OD1	9:I:67:THR:HG22	1.93	0.69
1:M:15:ARG:HH11	1:M:1438:GLN:HE21	1.40	0.69
1:M:177:ALA:HA	1:M:178:ALA:CB	2.15	0.69
1:M:1228:PHE:CD2	1:M:1246:ILE:CD1	2.75	0.69
1:M:1259:MET:O	1:M:1260:ILE:HG23	1.93	0.69
2:N:622:PRO:HG3	2:N:676:TYR:CE2	2.28	0.69
2:N:831:ASN:HD22	2:N:832:GLN:N	1.90	0.69
2:N:993:GLN:N	2:N:994:GLY:CA	2.50	0.69
4:P:71:ALA:O	4:P:75:TYR:CE2	2.46	0.69
10:V:1:MET:O	10:V:2:ILE:HG12	1.93	0.69
1:A:30:ARG:HG3	1:A:244:VAL:HG11	1.74	0.68
1:A:71:THR:CG2	1:A:72:CYS:SG	2.71	0.68
1:A:71:THR:CG2	2:B:1160:ILE:HG23	2.18	0.68
1:A:381:THR:HB	1:A:440:ARG:O	1.92	0.68
1:A:467:ARG:HA	1:A:468:VAL:CB	2.06	0.68
1:A:717:ARG:O	1:A:717:ARG:HD3	1.93	0.68
1:A:1127:ILE:HB	1:A:1133:LEU:HD22	1.76	0.68
1:A:1464:ALA:O	1:A:1465:VAL:HB	1.93	0.68
2:B:847:THR:HG22	2:B:956:ARG:HB2	1.75	0.68
1:M:65:ARG:N	1:M:67:PHE:CE1	2.59	0.68
1:M:717:ARG:O	1:M:717:ARG:HD3	1.93	0.68
1:M:1167:GLU:O	1:M:1168:GLU:CB	2.41	0.68
1:M:1200:LEU:HD11	1:M:1215:VAL:HG11	1.75	0.68
1:M:1450:TYR:HE2	6:R:125:ARG:CD	2.05	0.68
2:N:16:ASP:HA	2:N:19:THR:HG22	1.74	0.68
2:N:510:PRO:HG3	2:N:739:GLY:H	1.58	0.68
2:N:1054:GLN:C	2:N:1056:ARG:HD3	2.13	0.68
9:U:59:SER:C	9:U:61:ASP:H	1.97	0.68
1:A:17:GLU:OE1	2:B:1207:LYS:CA	2.42	0.68
2:B:753:SER:HB3	2:B:754:PRO:CD	2.22	0.68
2:B:1108:VAL:CG2	2:B:1109:GLU:N	2.57	0.68
4:D:71:ALA:O	4:D:75:TYR:CE2	2.46	0.68
7:G:119:ASP:O	7:G:133:GLY:HA2	1.92	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:56:ARG:O	12:L:56:ARG:HD3	1.93	0.68
1:M:17:GLU:OE1	2:N:1207:LYS:CA	2.41	0.68
1:M:148:MET:HA	1:M:179:GLN:HA	1.74	0.68
1:M:1028:LYS:HB2	1:M:1028:LYS:NZ	2.09	0.68
1:M:1107:ILE:HG23	1:M:1338:PHE:CE1	2.28	0.68
1:M:1228:PHE:HE2	1:M:1246:ILE:HD13	1.56	0.68
1:M:1397:ARG:O	1:M:1398:ALA:CB	2.41	0.68
2:N:206:ASN:N	2:N:227:SER:HB3	2.08	0.68
2:N:741:LEU:CD2	2:N:760:SER:HA	2.23	0.68
2:N:847:THR:HG22	2:N:956:ARG:HB2	1.75	0.68
8:T:7:LEU:HG	8:T:59:ILE:CD1	2.24	0.68
9:U:20:LYS:HD2	9:U:21:VAL:HG23	1.74	0.68
9:U:58:VAL:O	9:U:60:HIS:N	2.26	0.68
10:V:43:TYR:HB3	10:V:44:CYS:HA	1.75	0.68
1:A:311:ASP:HB2	1:A:314:ILE:CG1	2.23	0.68
1:A:341:ARG:NH1	2:B:1190:LEU:HB3	2.08	0.68
1:A:1167:GLU:O	1:A:1168:GLU:CB	2.41	0.68
1:A:1450:TYR:C	1:A:1451:LEU:HG	2.14	0.68
2:B:235:LEU:O	2:B:235:LEU:CD2	2.39	0.68
2:B:287:ILE:HG12	2:B:368:ILE:CD1	2.24	0.68
2:B:659:PRO:CG	2:B:661:GLN:HE21	2.05	0.68
2:B:741:LEU:CD2	2:B:760:SER:HA	2.23	0.68
2:B:1148:ARG:HD2	2:B:1181:GLN:NE2	2.09	0.68
4:D:25:LEU:CD2	4:D:29:GLU:OE2	2.41	0.68
8:H:59:ILE:O	8:H:60:THR:CG2	2.36	0.68
9:I:69:PRO:CG	9:I:85:PHE:CE1	2.76	0.68
9:I:81:HIS:ND1	9:I:82:GLU:N	2.41	0.68
1:M:517:ILE:CD1	1:M:640:TRP:NE1	2.55	0.68
1:M:963:VAL:HA	1:M:966:ILE:HG12	1.73	0.68
2:N:777:ARG:HD3	2:N:779:ASP:OD1	1.93	0.68
3:O:51:ASN:HB2	3:O:155:SER:OG	1.92	0.68
4:P:85:PHE:CE1	4:P:114:LYS:HB3	2.26	0.68
1:A:822:HIS:CE1	2:B:752:GLN:O	2.46	0.68
1:M:192:SER:HB2	1:M:201:ASP:C	2.13	0.68
1:M:349:LYS:HE2	2:N:1106:GLN:NE2	2.08	0.68
1:M:646:GLU:CA	1:M:648:CYS:H	2.05	0.68
2:N:54:SER:HA	2:N:79:PHE:HD1	1.59	0.68
2:N:659:PRO:CG	2:N:661:GLN:HE21	2.05	0.68
2:N:995:ILE:HG22	10:V:42:ARG:HD2	1.76	0.68
1:A:521:GLN:CG	1:A:1074:SER:HB2	2.08	0.68
1:A:773:GLN:NE2	1:A:780:ARG:CB	2.55	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1263:ASP:HA	1:A:1266:LEU:HD12	1.74	0.68
9:I:59:SER:C	9:I:61:ASP:H	1.97	0.68
9:I:91:ARG:HG2	9:I:92:ARG:N	2.08	0.68
10:J:43:TYR:HB3	10:J:44:CYS:HA	1.75	0.68
1:M:120:SER:HG	1:M:121:ASN:HB2	1.58	0.68
1:M:1170:LYS:N	1:M:1170:LYS:HD2	2.08	0.68
2:N:243:LEU:C	2:N:244:MET:HG2	2.13	0.68
2:N:686:MET:H	2:N:728:THR:CG2	2.05	0.68
3:O:7:ILE:HD13	11:W:104:PHE:HA	1.74	0.68
6:R:93:MET:CE	7:S:66:GLN:O	2.42	0.68
7:S:164:MET:HE1	7:S:170:GLY:N	2.08	0.68
8:T:7:LEU:HD21	8:T:110:LYS:CD	2.24	0.68
1:A:154:LEU:N	1:A:173:GLY:C	2.42	0.68
1:A:419:ILE:HG22	1:A:419:ILE:O	1.92	0.68
1:A:1405:ARG:HA	1:A:1408:PHE:HD1	1.59	0.68
2:B:1054:GLN:C	2:B:1056:ARG:HD3	2.13	0.68
8:H:7:LEU:HG	8:H:59:ILE:CD1	2.24	0.68
8:H:114:LEU:O	8:H:116:LEU:HD12	1.93	0.68
9:I:3:ASN:N	9:I:3:ASN:ND2	2.40	0.68
1:M:180:PRO:HG3	1:M:193:TRP:CD1	2.28	0.68
1:M:507:ILE:O	1:M:507:ILE:HG12	1.93	0.68
1:M:793:PHE:CZ	1:M:817:GLN:OE1	2.47	0.68
1:M:827:ARG:HH11	1:M:827:ARG:CB	2.06	0.68
1:M:918:GLU:HB2	1:M:981:PRO:HG2	1.76	0.68
1:M:1104:LEU:HD11	1:M:1108:LEU:HD11	1.74	0.68
2:N:394:LEU:CG	2:N:531:VAL:HG11	2.23	0.68
2:N:417:TYR:CE2	2:N:421:CYS:SG	2.86	0.68
2:N:703:GLY:C	2:N:704:TYR:HD1	1.95	0.68
8:T:7:LEU:HD21	8:T:110:LYS:HD3	1.75	0.68
8:T:74:TYR:OH	8:T:76:MET:SD	2.48	0.68
9:U:69:PRO:CG	9:U:85:PHE:CE1	2.77	0.68
1:A:127:THR:HA	1:A:130:TYR:CD2	2.23	0.68
1:A:155:SER:CB	1:A:169:ASN:CA	2.72	0.68
1:A:194:LYS:HG3	1:A:195:ARG:H	1.57	0.68
1:A:232:GLU:O	1:A:232:GLU:CG	2.36	0.68
1:A:879:LEU:HD12	1:A:960:PRO:HG3	1.76	0.68
1:A:1082:MET:O	1:A:1086:THR:HG23	1.94	0.68
1:A:1174:GLU:OE2	1:A:1242:ARG:NE	2.27	0.68
1:A:1200:LEU:HD11	1:A:1215:VAL:HG11	1.76	0.68
2:B:875:LYS:HG3	3:O:265:GLU:OE2	1.94	0.68
7:G:104:ILE:HD12	7:G:109:VAL:HG21	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:7:LEU:HD21	8:H:110:LYS:CD	2.24	0.68
1:M:150:CYS:SG	1:M:176:GLY:C	2.72	0.68
1:M:236:ARG:CA	1:M:239:TRP:CE3	2.77	0.68
1:M:966:ILE:O	1:M:970:ALA:HB2	1.94	0.68
1:M:1164:THR:O	1:M:1165:VAL:CB	2.41	0.68
1:M:1174:GLU:OE2	1:M:1242:ARG:NE	2.27	0.68
1:M:1498:GLY:CA	1:M:1500:PRO:CD	2.39	0.68
2:N:16:ASP:HB3	2:N:645:ILE:HD13	1.76	0.68
7:S:104:ILE:HD12	7:S:109:VAL:HG21	1.76	0.68
9:U:81:HIS:ND1	9:U:82:GLU:N	2.41	0.68
1:A:26:PRO:HD2	1:A:239:TRP:NE1	2.09	0.68
1:A:37:ILE:HD13	1:A:247:VAL:HG21	1.76	0.68
1:A:94:HIS:C	1:A:98:LEU:CG	2.61	0.68
1:A:236:ARG:CA	1:A:239:TRP:CE3	2.77	0.68
1:A:1170:LYS:HD2	1:A:1170:LYS:N	2.08	0.68
1:A:1248:ASP:HA	1:A:1250:ASP:N	2.08	0.68
2:B:660:GLU:O	2:B:661:GLN:HB2	1.94	0.68
9:I:8:ILE:HG22	9:I:9:GLU:H	1.57	0.68
1:M:6:PHE:CE2	1:M:78:ASP:OD2	2.46	0.68
1:M:155:SER:HB2	1:M:169:ASN:CB	2.24	0.68
1:M:558:TRP:CZ3	11:W:61:LYS:HG2	2.29	0.68
1:M:810:TYR:HE2	2:N:751:ASN:O	1.73	0.68
1:M:1252:LYS:O	1:M:1253:ALA:CB	2.42	0.68
2:N:434:VAL:O	2:N:434:VAL:HG12	1.93	0.68
8:T:114:LEU:O	8:T:116:LEU:HD12	1.93	0.68
9:U:24:VAL:CG1	9:U:25:LEU:N	2.57	0.68
1:A:271:LYS:HD3	1:A:322:GLN:HE22	1.55	0.68
1:A:322:GLN:OE1	1:A:328:LEU:HG	1.93	0.68
1:A:1394:GLY:O	1:A:1395:ILE:C	2.32	0.68
2:B:16:ASP:HB3	2:B:645:ILE:HD13	1.76	0.68
2:B:622:PRO:HG3	2:B:676:TYR:CE2	2.28	0.68
2:B:869:SER:O	2:B:870:THR:CG2	2.37	0.68
2:B:995:ILE:HG22	10:J:42:ARG:HD2	1.76	0.68
4:D:58:THR:HB	4:D:62:PHE:CD2	2.25	0.68
5:E:14:ALA:HA	5:E:17:THR:CG2	2.24	0.68
10:J:1:MET:O	10:J:2:ILE:HG12	1.93	0.68
1:M:341:ARG:NH1	2:N:1190:LEU:HB3	2.08	0.68
1:M:806:ILE:HD11	1:M:814:LEU:HD23	1.76	0.68
1:M:820:PHE:CZ	2:N:500:LEU:CD1	2.77	0.68
1:M:1071:ALA:CA	1:M:1373:HIS:CD2	2.77	0.68
1:M:1433:ASN:ND2	1:M:1441:PRO:HD3	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:320:ILE:O	2:N:320:ILE:CG2	2.40	0.68
9:U:65:ASP:OD1	9:U:67:THR:HG22	1.93	0.68
1:A:62:THR:OG1	1:A:69:CYS:HB3	1.94	0.68
1:A:147:LYS:O	1:A:148:MET:CB	2.42	0.68
1:A:177:ALA:HB3	1:A:178:ALA:O	1.93	0.68
1:A:267:ASP:CA	1:A:268:LEU:CB	2.49	0.68
1:A:780:ARG:NH1	1:A:803:ARG:NE	2.42	0.68
1:A:1252:LYS:O	1:A:1253:ALA:CB	2.42	0.68
1:A:1478:LEU:CD1	1:A:1479:PRO:HD2	2.16	0.68
1:A:1496:PHE:HD2	4:D:33:LEU:CD1	2.07	0.68
2:B:16:ASP:HA	2:B:19:THR:HG22	1.74	0.68
2:B:1205:PHE:CD2	2:B:1210:LYS:CB	2.77	0.68
3:C:7:ILE:HD13	11:K:104:PHE:HA	1.74	0.68
5:E:54:ARG:O	5:E:55:THR:CB	2.42	0.68
7:G:35:VAL:CG1	7:G:46:ILE:HG21	2.21	0.68
9:I:69:PRO:CB	9:I:85:PHE:CZ	2.77	0.68
1:M:25:SER:HB3	1:M:239:TRP:CE2	2.28	0.68
1:M:30:ARG:HG3	1:M:244:VAL:HG11	1.75	0.68
1:M:85:HIS:ND1	1:M:244:VAL:HG13	2.09	0.68
1:M:153:GLY:C	1:M:154:LEU:HG	2.12	0.68
1:M:581:LYS:HB3	1:M:618:ILE:CD1	2.22	0.68
1:M:1194:TRP:CZ2	1:M:1262:GLU:HG3	2.29	0.68
2:N:287:ILE:HG12	2:N:368:ILE:CD1	2.24	0.68
6:R:61:GLY:O	6:R:62:LYS:HG2	1.93	0.68
7:S:61:ARG:O	7:S:61:ARG:HG2	1.94	0.68
9:U:91:ARG:HG2	9:U:92:ARG:N	2.08	0.68
1:A:433:ARG:N	1:A:436:TRP:CE2	2.62	0.67
1:A:1066:MET:HE1	1:A:1442:MET:CB	2.23	0.67
1:A:1183:GLU:O	1:A:1186:GLU:CG	2.42	0.67
1:A:1450:TYR:CD1	7:G:61:ARG:CA	2.78	0.67
2:B:320:ILE:O	2:B:320:ILE:CG2	2.42	0.67
2:B:1058:PHE:HE1	3:C:193:TRP:HD1	1.42	0.67
3:C:51:ASN:HB2	3:C:155:SER:OG	1.92	0.67
1:M:33:SER:CB	1:M:84:GLY:HA2	2.16	0.67
1:M:713:GLY:C	1:M:714:MET:HG2	2.13	0.67
1:M:861:THR:CG2	1:M:863:ARG:HE	2.07	0.67
1:M:1405:ARG:HA	1:M:1408:PHE:HD1	1.58	0.67
1:M:1450:TYR:C	1:M:1451:LEU:HG	2.14	0.67
2:N:831:ASN:ND2	2:N:833:ALA:H	1.92	0.67
4:P:96:LEU:N	4:P:96:LEU:CD2	2.57	0.67
7:S:93:THR:O	7:S:140:LYS:HE3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:X:56:ARG:O	12:X:56:ARG:HD3	1.93	0.67
1:A:95:ILE:O	1:A:98:LEU:CB	2.41	0.67
1:A:587:ILE:CD1	1:A:655:ILE:HG12	2.22	0.67
1:A:646:GLU:N	1:A:648:CYS:N	2.41	0.67
1:A:1028:LYS:NZ	1:A:1028:LYS:HB2	2.09	0.67
1:A:1397:ARG:O	1:A:1398:ALA:CB	2.41	0.67
2:B:54:SER:HA	2:B:79:PHE:HD1	1.59	0.67
2:B:434:VAL:O	2:B:434:VAL:HG12	1.93	0.67
2:B:831:ASN:ND2	2:B:833:ALA:H	1.92	0.67
3:C:53:ASN:HA	3:C:154:ILE:HG22	1.76	0.67
7:G:61:ARG:HG2	7:G:61:ARG:O	1.94	0.67
1:M:261:THR:O	1:M:262:SER:CB	2.33	0.67
1:M:386:VAL:O	1:M:386:VAL:HG12	1.93	0.67
1:M:517:ILE:HD11	1:M:640:TRP:NE1	2.05	0.67
1:M:1183:GLU:O	1:M:1186:GLU:CG	2.42	0.67
2:N:986:GLU:H	2:N:986:GLU:CD	1.98	0.67
9:U:8:ILE:HG22	9:U:9:GLU:H	1.57	0.67
1:A:11:VAL:CG1	2:B:1179:PHE:HB2	2.24	0.67
1:A:507:ILE:HG12	1:A:507:ILE:O	1.93	0.67
1:A:666:ASN:OD1	2:B:1071:VAL:HG21	1.94	0.67
1:A:1104:LEU:HD11	1:A:1108:LEU:HD11	1.74	0.67
1:A:1164:THR:O	1:A:1165:VAL:CB	2.41	0.67
2:B:777:ARG:HD3	2:B:779:ASP:OD1	1.93	0.67
7:G:93:THR:O	7:G:140:LYS:HE3	1.95	0.67
1:M:433:ARG:N	1:M:436:TRP:CE2	2.62	0.67
2:N:752:GLN:C	2:N:754:PRO:HD2	2.14	0.67
4:P:25:LEU:CD2	4:P:29:GLU:OE2	2.41	0.67
7:S:59:LYS:HG3	7:S:60:GLY:HA2	1.74	0.67
1:A:177:ALA:HB3	1:A:179:GLN:CD	2.14	0.67
1:A:193:TRP:HZ3	1:A:206:ARG:HB3	1.57	0.67
1:A:827:ARG:HH11	1:A:827:ARG:CB	2.06	0.67
1:A:1260:ILE:HD12	9:I:30:ARG:HH21	1.55	0.67
2:B:417:TYR:CE2	2:B:421:CYS:SG	2.86	0.67
9:I:15:TYR:N	9:I:28:ALA:O	2.25	0.67
9:I:79:HIS:CD2	9:I:80:GLN:HE21	2.12	0.67
11:K:64:HIS:HD2	11:K:66:LEU:HB2	1.60	0.67
1:M:11:VAL:CG1	2:N:1179:PHE:HB2	2.23	0.67
1:M:62:THR:OG1	1:M:69:CYS:HB3	1.94	0.67
1:M:148:MET:O	1:M:149:VAL:HG22	1.94	0.67
1:M:271:LYS:CE	1:M:328:LEU:CD1	2.71	0.67
1:M:523:ASN:O	1:M:523:ASN:ND2	2.24	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:587:ILE:CD1	1:M:655:ILE:HG12	2.22	0.67
1:M:827:ARG:HH11	1:M:827:ARG:HG3	1.60	0.67
1:M:1276:SER:C	1:M:1277:ILE:CG1	2.61	0.67
1:M:1282:VAL:HG12	1:M:1285:ILE:HG13	1.76	0.67
1:M:1437:GLY:HA2	2:N:1141:PHE:CG	2.29	0.67
2:N:28:THR:O	2:N:32:ARG:HB2	1.95	0.67
2:N:659:PRO:HB3	2:N:661:GLN:CD	2.14	0.67
4:P:67:ARG:O	4:P:68:PHE:CG	2.47	0.67
5:Q:54:ARG:O	5:Q:55:THR:CB	2.42	0.67
6:R:76:THR:HG23	6:R:79:GLU:OE2	1.95	0.67
7:S:47:ILE:HD12	7:S:78:VAL:CG1	2.22	0.67
8:T:80:VAL:HG22	8:T:95:VAL:HG22	1.76	0.67
8:T:80:VAL:CA	8:T:95:VAL:HG22	2.23	0.67
1:A:95:ILE:HG21	1:A:314:ILE:HD13	1.74	0.67
1:A:861:THR:CG2	1:A:863:ARG:HE	2.07	0.67
1:A:1071:ALA:CA	1:A:1373:HIS:CD2	2.77	0.67
1:A:1283:PRO:O	1:A:1284:ASN:CB	2.41	0.67
2:B:263:ARG:HB2	2:B:322:LYS:O	1.95	0.67
2:B:417:TYR:CZ	2:B:421:CYS:SG	2.87	0.67
4:D:85:PHE:CE1	4:D:114:LYS:HB3	2.26	0.67
5:E:57:LEU:O	5:E:58:SER:CB	2.43	0.67
8:H:80:VAL:HG22	8:H:95:VAL:HG22	1.76	0.67
8:H:80:VAL:CA	8:H:95:VAL:HG22	2.23	0.67
9:I:48:LEU:O	9:I:49:GLN:HB3	1.93	0.67
9:I:65:ASP:HB3	9:I:68:LEU:HD12	1.77	0.67
1:M:432:LEU:HD23	1:M:436:TRP:HZ2	1.56	0.67
1:M:868:ASP:OD2	1:M:1384:ARG:NH1	2.26	0.67
1:M:1082:MET:O	1:M:1086:THR:HG23	1.94	0.67
1:M:1082:MET:HE3	1:M:1364:PHE:O	1.94	0.67
1:M:1125:PRO:HB3	1:M:1128:ALA:CA	2.24	0.67
1:M:1449:ILE:HD12	1:M:1449:ILE:H	1.59	0.67
2:N:641:ARG:H	2:N:644:HIS:CD2	2.13	0.67
2:N:993:GLN:H	2:N:994:GLY:HA2	1.58	0.67
4:P:25:LEU:CD1	7:S:5:LEU:CB	2.61	0.67
9:U:69:PRO:CB	9:U:85:PHE:CZ	2.77	0.67
1:A:65:ARG:C	1:A:67:PHE:CD1	2.68	0.67
1:A:362:ASP:OD1	1:A:365:LEU:CG	2.32	0.67
1:A:966:ILE:O	1:A:970:ALA:HB2	1.94	0.67
1:A:1259:MET:O	1:A:1260:ILE:HG23	1.94	0.67
1:A:1276:SER:C	1:A:1277:ILE:CG1	2.61	0.67
1:A:1433:ASN:ND2	1:A:1441:PRO:HD3	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1442:MET:HA	1:A:1442:MET:HE2	1.75	0.67
1:A:1465:VAL:HG13	1:A:1466:PRO:HB3	1.72	0.67
1:A:1490:PRO:HG3	7:G:53:ASN:HD22	1.59	0.67
2:B:986:GLU:CD	2:B:986:GLU:H	1.98	0.67
3:C:129:SER:HB2	3:C:130:LEU:CA	2.22	0.67
4:D:51:MET:CE	4:D:55:MET:CE	2.38	0.67
7:G:31:LEU:HD22	7:G:73:VAL:HG11	1.77	0.67
9:I:25:LEU:HD12	9:I:38:ALA:HB1	1.76	0.67
9:I:94:ASP:O	9:I:96:MET:SD	2.52	0.67
1:M:48:GLN:C	1:M:50:PRO:CD	2.63	0.67
1:M:180:PRO:HB3	1:M:193:TRP:HA	1.76	0.67
1:M:195:ARG:C	1:M:195:ARG:CD	2.61	0.67
1:M:254:PRO:HB3	2:N:1103:LEU:CD2	2.24	0.67
1:M:836:LYS:HA	1:M:840:THR:HG23	1.75	0.67
1:M:1166:ILE:CB	1:M:1167:GLU:HB3	2.23	0.67
2:N:194:GLU:HB2	2:N:469:LEU:HB2	1.76	0.67
2:N:660:GLU:O	2:N:661:GLN:HB2	1.94	0.67
2:N:1058:PHE:CE1	3:O:193:TRP:CD1	2.80	0.67
4:P:14:LYS:O	4:P:15:LEU:HG	1.95	0.67
8:T:12:THR:O	8:T:29:ALA:HA	1.95	0.67
9:U:46:HIS:O	9:U:47:GLU:HB2	1.93	0.67
9:U:65:ASP:HB3	9:U:68:LEU:HD12	1.77	0.67
9:U:101:TYR:HB2	9:U:110:PHE:CZ	2.30	0.67
1:A:208:LEU:H	1:A:208:LEU:HD13	1.60	0.67
1:A:1194:TRP:CZ2	1:A:1262:GLU:HG3	2.29	0.67
2:B:207:ILE:HD13	2:B:209:GLN:HB3	1.76	0.67
2:B:752:GLN:C	2:B:754:PRO:HD2	2.14	0.67
4:D:84:ARG:HG3	4:D:85:PHE:H	1.59	0.67
1:M:404:GLU:O	1:M:405:HIS:C	2.33	0.67
1:M:429:ASP:C	1:M:430:ILE:CD1	2.63	0.67
1:M:815:THR:OG1	1:M:818:GLU:HG3	1.94	0.67
5:Q:57:LEU:O	5:Q:58:SER:CB	2.43	0.67
1:A:23:ILE:CG1	1:A:1419:ALA:O	2.42	0.67
1:A:24:LEU:HD23	2:B:1201:ALA:HB2	1.76	0.67
1:A:839:GLU:HA	1:A:842:TYR:HD2	1.60	0.67
1:A:1146:LEU:CG	1:A:1274:LEU:HA	2.24	0.67
2:B:752:GLN:HG3	2:B:1010:MET:CE	2.24	0.67
2:B:1205:PHE:CD2	2:B:1210:LYS:HA	2.30	0.67
4:D:67:ARG:O	4:D:68:PHE:CG	2.47	0.67
5:E:23:HIS:HA	5:E:24:ASP:C	2.15	0.67
6:F:76:THR:HG23	6:F:79:GLU:OE2	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:116:VAL:CG1	7:G:117:PRO:CD	2.66	0.67
1:M:480:VAL:O	1:M:480:VAL:HG12	1.93	0.67
2:N:325:SER:O	2:N:326:THR:CB	2.42	0.67
2:N:1108:VAL:CG2	2:N:1109:GLU:N	2.57	0.67
2:N:1205:PHE:CD2	2:N:1210:LYS:CB	2.77	0.67
3:O:53:ASN:HA	3:O:154:ILE:HG22	1.76	0.67
5:Q:23:HIS:HA	5:Q:24:ASP:C	2.15	0.67
9:U:94:ASP:O	9:U:96:MET:SD	2.52	0.67
1:A:155:SER:HB2	1:A:169:ASN:CB	2.24	0.67
1:A:263:ARG:CG	1:A:263:ARG:NH2	2.43	0.67
1:A:338:LYS:HG2	1:A:339:GLU:H	1.58	0.67
1:A:581:LYS:NZ	1:A:621:GLY:O	2.20	0.67
1:A:651:PHE:CZ	1:A:655:ILE:CD1	2.78	0.67
1:A:827:ARG:HH11	1:A:827:ARG:HG3	1.59	0.67
2:B:102:GLN:HG2	2:B:105:ARG:NH2	2.10	0.67
2:B:229:LEU:HD11	2:B:231:ARG:HH21	1.58	0.67
2:B:510:PRO:HG3	2:B:739:GLY:H	1.58	0.67
2:B:651:ASP:CG	2:B:662:ARG:HB3	2.15	0.67
2:B:867:VAL:CG2	2:B:869:SER:OG	2.42	0.67
1:M:780:ARG:NH1	1:M:803:ARG:NE	2.42	0.67
1:M:1082:MET:HE1	1:M:1364:PHE:O	1.94	0.67
1:M:1290:MET:CG	1:M:1310:TRP:HE3	2.08	0.67
1:A:48:GLN:C	1:A:50:PRO:CD	2.63	0.67
1:A:83:PHE:HZ	2:B:1193:GLN:O	1.78	0.67
1:A:187:LEU:HD12	1:A:304:PHE:HE1	1.59	0.67
1:A:1478:LEU:HD12	1:A:1479:PRO:CD	2.18	0.67
2:B:212:LYS:NZ	2:B:381:PRO:CG	2.57	0.67
2:B:816:ILE:CG1	2:B:1001:ILE:HD11	2.24	0.67
10:J:44:CYS:SG	10:J:45:CYS:N	2.69	0.67
1:M:65:ARG:C	1:M:67:PHE:CD1	2.68	0.67
1:M:155:SER:CB	1:M:169:ASN:CA	2.72	0.67
1:M:1259:MET:O	1:M:1260:ILE:HG12	1.94	0.67
2:N:417:TYR:CZ	2:N:421:CYS:SG	2.88	0.67
4:P:26:THR:O	4:P:30:ALA:CB	2.43	0.67
7:S:130:ASN:CB	7:S:139:GLU:HG3	2.24	0.67
1:A:404:GLU:O	1:A:405:HIS:C	2.33	0.66
1:A:948:PHE:C	1:A:950:PHE:H	1.99	0.66
1:A:1484:THR:N	1:A:1485:PRO:CD	2.58	0.66
2:B:401:SER:HA	2:B:404:ARG:NH1	2.10	0.66
2:B:576:HIS:HD2	2:B:577:ARG:O	1.78	0.66
2:B:659:PRO:HB3	2:B:661:GLN:CD	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:58:VAL:O	9:I:58:VAL:HG13	1.95	0.66
1:M:110:TRP:HZ2	1:M:180:PRO:HG3	1.59	0.66
1:M:195:ARG:HB3	1:M:196:GLY:HA2	1.77	0.66
1:M:236:ARG:HB3	1:M:238:ASP:OD1	1.95	0.66
1:M:321:LEU:CB	1:M:325:GLY:HA2	2.21	0.66
1:M:788:ARG:NH2	1:M:791:PRO:HA	2.10	0.66
1:M:836:LYS:HE3	1:M:1080:THR:HB	1.76	0.66
1:M:1071:ALA:CB	1:M:1373:HIS:HD2	1.85	0.66
1:M:1100:GLY:C	1:M:1102:PRO:CD	2.53	0.66
2:N:43:GLN:HB2	2:N:44:ASN:HA	1.77	0.66
2:N:752:GLN:HG3	2:N:1010:MET:CE	2.24	0.66
7:S:101:PHE:CE1	7:S:110:PHE:HD1	2.12	0.66
9:U:65:ASP:OD2	9:U:68:LEU:CD1	2.42	0.66
11:W:64:HIS:HD2	11:W:66:LEU:HB2	1.60	0.66
1:A:88:LEU:HG	1:A:243:THR:O	1.96	0.66
1:A:271:LYS:CE	1:A:328:LEU:CD1	2.71	0.66
1:A:646:GLU:H	1:A:648:CYS:N	1.93	0.66
1:A:788:ARG:NH2	1:A:791:PRO:HA	2.10	0.66
2:B:43:GLN:HB2	2:B:44:ASN:HA	1.77	0.66
2:B:465:VAL:HG12	2:B:465:VAL:O	1.95	0.66
7:G:39:CYS:O	7:G:156:THR:HB	1.95	0.66
1:M:26:PRO:HD2	1:M:239:TRP:NE1	2.09	0.66
1:M:271:LYS:CE	1:M:328:LEU:CG	2.45	0.66
1:M:513:VAL:HG23	1:M:514:PRO:CD	2.04	0.66
2:N:235:LEU:O	2:N:235:LEU:CD2	2.39	0.66
2:N:713:ALA:O	2:N:714:GLN:CG	2.44	0.66
2:N:773:ASN:HB3	10:V:62:TYR:CZ	2.30	0.66
2:N:867:VAL:CG2	2:N:869:SER:OG	2.42	0.66
9:U:4:PHE:CZ	9:U:43:VAL:HG13	2.29	0.66
1:A:75:THR:CB	1:A:76:MET:HA	2.17	0.66
1:A:266:ASP:C	1:A:268:LEU:HB3	2.16	0.66
1:A:434:TYR:HE1	6:R:101:LEU:O	1.77	0.66
1:A:1259:MET:O	1:A:1260:ILE:HG12	1.93	0.66
1:A:1328:VAL:H	1:A:1329:ASP:HA	1.59	0.66
2:B:234:ARG:HH21	2:B:408:ARG:NH2	1.92	0.66
2:B:345:GLU:O	2:B:348:PRO:HD3	1.96	0.66
3:C:130:LEU:CD2	3:C:132:HIS:HD2	2.07	0.66
4:D:96:LEU:N	4:D:96:LEU:CD2	2.57	0.66
1:M:433:ARG:NH1	1:M:435:GLY:HA3	2.11	0.66
1:M:949:ILE:HG13	1:M:950:PHE:CD2	2.30	0.66
5:Q:14:ALA:HA	5:Q:17:THR:CG2	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:6:LYS:HG2	7:S:7:GLU:N	2.11	0.66
1:A:349:LYS:NZ	2:B:1187:ALA:CB	2.59	0.66
1:A:822:HIS:NE2	2:B:752:GLN:C	2.49	0.66
1:A:849:LYS:O	1:A:1408:PHE:HE2	1.77	0.66
1:A:918:GLU:HB2	1:A:981:PRO:HG2	1.76	0.66
1:A:1119:LEU:N	1:A:1314:THR:CG2	2.57	0.66
1:A:1170:LYS:HD2	1:A:1170:LYS:H	1.61	0.66
1:A:1289:TYR:O	1:A:1312:LEU:HA	1.96	0.66
2:B:28:THR:O	2:B:32:ARG:HB2	1.95	0.66
2:B:215:ALA:O	2:B:217:SER:CB	2.44	0.66
3:C:234:GLU:OE2	10:J:12:LYS:HE2	1.95	0.66
6:F:96:PRO:CG	7:G:19:PHE:HB2	2.21	0.66
7:G:130:ASN:CB	7:G:139:GLU:HG3	2.24	0.66
9:I:65:ASP:OD2	9:I:68:LEU:CD1	2.42	0.66
1:M:37:ILE:HD13	1:M:247:VAL:HG21	1.76	0.66
1:M:221:SER:HB2	1:M:224:ASP:OD2	1.96	0.66
1:M:666:ASN:OD1	2:N:1071:VAL:HG21	1.94	0.66
2:N:576:HIS:HD2	2:N:577:ARG:O	1.78	0.66
2:N:1205:PHE:CD2	2:N:1210:LYS:HA	2.30	0.66
4:P:24:MET:HE1	4:P:88:PHE:CE1	2.30	0.66
1:A:183:ARG:CZ	1:A:203:PRO:CB	2.73	0.66
1:A:558:TRP:CZ3	11:K:61:LYS:HG2	2.29	0.66
1:A:1100:GLY:C	1:A:1102:PRO:CD	2.54	0.66
1:A:1118:SER:O	1:A:1119:LEU:HB3	1.96	0.66
1:A:1449:ILE:H	1:A:1449:ILE:HD12	1.59	0.66
1:A:1450:TYR:HE2	6:F:125:ARG:CG	2.08	0.66
1:A:1485:PRO:CD	4:D:43:ARG:NH1	2.57	0.66
2:B:402:LEU:HD22	2:B:452:TRP:CE3	2.30	0.66
2:B:713:ALA:O	2:B:714:GLN:CG	2.44	0.66
7:G:101:PHE:CE1	7:G:110:PHE:HD1	2.12	0.66
1:M:839:GLU:HA	1:M:842:TYR:HD2	1.60	0.66
2:N:398:LEU:O	2:N:402:LEU:HG	1.95	0.66
1:A:189:LEU:O	1:A:190:TRP:HD1	1.78	0.66
1:A:236:ARG:HB3	1:A:238:ASP:OD1	1.95	0.66
1:A:269:THR:O	1:A:270:HIS:C	2.34	0.66
1:A:288:GLU:HB3	1:A:290:ALA:H	1.61	0.66
1:A:386:VAL:HG21	1:A:436:TRP:CD1	2.31	0.66
1:A:947:LYS:CB	1:A:948:PHE:HA	2.26	0.66
1:A:1083:THR:CG2	1:A:1084:LEU:H	2.09	0.66
2:B:664:GLY:O	2:B:665:TRP:HB3	1.96	0.66
4:D:98:CYS:HA	4:D:99:GLU:CB	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:151:THR:CG2	7:G:160:ALA:HB2	2.26	0.66
9:I:46:HIS:O	9:I:47:GLU:HB2	1.93	0.66
1:M:28:GLU:OE1	2:N:1203:ARG:NH2	2.28	0.66
1:M:154:LEU:HA	1:M:173:GLY:CA	2.23	0.66
1:M:193:TRP:O	1:M:200:SER:HB2	1.95	0.66
1:M:244:VAL:O	1:M:245:LEU:C	2.34	0.66
1:M:266:ASP:C	1:M:268:LEU:HB3	2.16	0.66
1:M:269:THR:O	1:M:270:HIS:C	2.34	0.66
1:M:390:ASN:O	1:M:391:ILE:C	2.34	0.66
1:M:395:GLN:CG	1:M:432:LEU:HD12	2.25	0.66
1:M:651:PHE:CZ	1:M:655:ILE:CD1	2.78	0.66
2:N:102:GLN:HG2	2:N:105:ARG:NH2	2.10	0.66
7:S:101:PHE:CD1	7:S:110:PHE:HD1	2.14	0.66
8:T:36:MET:HA	8:T:36:MET:CE	2.26	0.66
1:A:33:SER:CB	1:A:85:HIS:H	2.09	0.66
1:A:115:LEU:HD21	1:A:227:HIS:CB	2.26	0.66
1:A:581:LYS:HB3	1:A:618:ILE:CD1	2.22	0.66
2:B:296:MET:HE1	2:B:372:LEU:C	2.16	0.66
4:D:26:THR:O	4:D:30:ALA:CB	2.43	0.66
5:E:27:TYR:HD2	5:E:63:PRO:HG3	1.57	0.66
7:G:6:LYS:HG2	7:G:7:GLU:N	2.11	0.66
7:G:84:ARG:HA	7:G:148:ILE:HG22	1.78	0.66
1:M:110:TRP:CH2	1:M:180:PRO:HG2	2.31	0.66
1:M:462:MET:CE	1:M:513:VAL:HA	2.26	0.66
1:M:1118:SER:O	1:M:1119:LEU:HB3	1.96	0.66
1:M:1451:LEU:HD21	7:S:62:VAL:CG2	2.25	0.66
2:N:207:ILE:HD13	2:N:209:GLN:HB3	1.76	0.66
2:N:664:GLY:O	2:N:665:TRP:HB3	1.96	0.66
2:N:831:ASN:C	2:N:831:ASN:ND2	2.48	0.66
4:P:111:LEU:O	4:P:112:ALA:C	2.33	0.66
7:S:151:THR:CG2	7:S:160:ALA:HB2	2.25	0.66
1:A:21:PHE:HZ	1:A:1403:LEU:HD12	1.58	0.66
1:A:38:GLU:C	1:A:40:PRO:HD3	2.15	0.66
1:A:221:SER:HB2	1:A:224:ASP:OD2	1.96	0.66
1:A:328:LEU:O	1:A:328:LEU:CD1	2.36	0.66
1:A:1211:SER:O	1:A:1215:VAL:HG23	1.96	0.66
1:A:1342:LEU:HD23	1:A:1350:THR:HG21	1.78	0.66
1:A:1450:TYR:CE2	6:F:125:ARG:HG3	2.31	0.66
1:A:1496:PHE:CE2	4:D:33:LEU:CG	2.76	0.66
2:B:317:LEU:HB3	2:B:335:LEU:HD23	1.77	0.66
2:B:874:MET:CG	2:B:879:TYR:OH	2.44	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:5:GLU:HB3	5:E:8:ILE:HD13	1.77	0.66
7:G:43:TYR:HB3	7:G:79:LEU:HD13	1.78	0.66
8:H:12:THR:O	8:H:29:ALA:HA	1.95	0.66
1:M:83:PHE:HZ	2:N:1193:GLN:O	1.78	0.66
1:M:780:ARG:O	1:M:781:ILE:C	2.34	0.66
1:M:807:GLU:OE1	2:N:716:VAL:HG11	1.96	0.66
1:M:1087:PHE:O	1:M:1088:HIS:C	2.34	0.66
1:M:1100:GLY:O	1:M:1101:VAL:C	2.34	0.66
1:M:1289:TYR:O	1:M:1312:LEU:HA	1.96	0.66
2:N:263:ARG:HB3	2:N:322:LYS:CD	2.26	0.66
4:P:25:LEU:HD23	4:P:29:GLU:CD	2.16	0.66
1:A:108:VAL:HG11	1:A:113:GLY:CA	2.25	0.66
1:A:268:LEU:O	1:A:269:THR:C	2.34	0.66
1:A:368:ASP:OD1	1:A:649:LYS:HE3	1.95	0.66
1:A:462:MET:CE	1:A:513:VAL:HA	2.26	0.66
1:A:584:LEU:O	1:A:584:LEU:HD23	1.96	0.66
1:A:778:GLY:O	1:A:1092:VAL:HG22	1.94	0.66
1:A:1125:PRO:HB3	1:A:1128:ALA:CA	2.24	0.66
2:B:194:GLU:HB2	2:B:469:LEU:HB2	1.76	0.66
2:B:900:ILE:HD13	2:B:900:ILE:N	2.11	0.66
2:B:1080:TYR:HD2	2:B:1080:TYR:N	1.91	0.66
4:D:84:ARG:O	4:D:85:PHE:HB2	1.95	0.66
7:G:120:MET:HE3	7:G:138:ILE:HD12	1.78	0.66
1:M:1170:LYS:HD2	1:M:1170:LYS:H	1.60	0.66
1:M:1170:LYS:O	1:M:1172:PHE:N	2.29	0.66
2:N:200:GLN:NE2	2:N:465:VAL:HG21	2.11	0.66
2:N:234:ARG:NH2	2:N:408:ARG:NH2	2.35	0.66
2:N:657:ILE:N	2:N:657:ILE:HD12	2.11	0.66
2:N:874:MET:CG	2:N:879:TYR:OH	2.44	0.66
7:S:43:TYR:HB3	7:S:79:LEU:HD13	1.78	0.66
9:U:19:ASP:O	9:U:20:LYS:C	2.34	0.66
1:A:60:LEU:O	1:A:82:HIS:HD2	1.79	0.66
1:A:244:VAL:O	1:A:245:LEU:C	2.34	0.66
1:A:816:PRO:O	1:A:818:GLU:N	2.29	0.66
1:A:946:CYS:HB2	1:A:949:ILE:CG1	2.26	0.66
1:A:1288:VAL:HG12	1:A:1289:TYR:N	2.10	0.66
1:A:1459:TYR:CE2	6:F:98:LEU:HD22	2.31	0.66
2:B:199:ALA:C	2:B:200:GLN:HG2	2.16	0.66
7:G:151:THR:CB	7:G:160:ALA:HB2	2.25	0.66
1:M:25:SER:HB3	1:M:239:TRP:NE1	2.12	0.66
1:M:180:PRO:HB2	1:M:192:SER:O	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:775:ILE:HG23	1:M:1089:TYR:CE2	2.31	0.66
1:M:859:ASP:OD1	1:M:861:THR:HB	1.96	0.66
2:N:345:GLU:O	2:N:348:PRO:HD3	1.96	0.66
2:N:465:VAL:O	2:N:465:VAL:HG12	1.95	0.66
2:N:510:PRO:HG3	2:N:739:GLY:N	2.11	0.66
2:N:712:PRO:O	2:N:713:ALA:C	2.34	0.66
3:O:234:GLU:OE2	10:V:12:LYS:HE2	1.95	0.66
4:P:32:ILE:HD13	4:P:74:THR:HG21	1.69	0.66
9:U:53:VAL:O	9:U:55:ASN:N	2.29	0.66
1:A:877:ASP:HB2	1:A:1372:ARG:HH22	1.60	0.65
2:B:207:ILE:HD12	2:B:207:ILE:O	1.96	0.65
2:B:328:GLY:O	2:B:329:VAL:HG12	1.96	0.65
2:B:856:GLY:HA3	2:B:857:MET:C	2.16	0.65
7:G:134:GLU:O	7:G:135:ASP:C	2.34	0.65
8:H:111:LEU:C	8:H:113:ARG:H	1.99	0.65
9:I:101:TYR:HB2	9:I:110:PHE:CZ	2.30	0.65
1:M:95:ILE:O	1:M:98:LEU:CB	2.41	0.65
1:M:104:ILE:O	1:M:105:LEU:C	2.34	0.65
1:M:605:ASN:N	1:M:606:PRO:HA	2.11	0.65
1:M:789:THR:HG1	1:M:821:PHE:HZ	1.40	0.65
2:N:651:ASP:CG	2:N:662:ARG:HB3	2.15	0.65
2:N:777:ARG:HG2	2:N:779:ASP:HB2	1.78	0.65
2:N:816:ILE:CG1	2:N:1001:ILE:HD11	2.24	0.65
3:O:9:ILE:HD11	11:W:111:LYS:CG	2.25	0.65
5:Q:130:PHE:CE1	5:Q:181:ARG:HB3	2.31	0.65
7:S:39:CYS:O	7:S:156:THR:HB	1.95	0.65
7:S:151:THR:CB	7:S:160:ALA:HB2	2.25	0.65
8:T:111:LEU:C	8:T:113:ARG:H	1.99	0.65
1:A:106:GLU:CB	1:A:144:CYS:HB3	2.26	0.65
1:A:135:ASN:O	1:A:137:LEU:N	2.30	0.65
1:A:153:GLY:HA2	1:A:174:GLY:CA	2.26	0.65
2:B:510:PRO:HG3	2:B:739:GLY:N	2.11	0.65
3:C:9:ILE:HD11	11:K:111:LYS:CG	2.25	0.65
3:C:45:ILE:HD11	3:C:66:LEU:HB3	1.79	0.65
3:C:48:VAL:HG12	3:C:158:CYS:SG	2.37	0.65
9:I:20:LYS:HD2	9:I:21:VAL:HG23	1.76	0.65
1:M:60:LEU:O	1:M:82:HIS:HD2	1.79	0.65
1:M:268:LEU:O	1:M:269:THR:C	2.34	0.65
1:M:388:PRO:HA	1:M:434:TYR:CE2	2.31	0.65
1:M:877:ASP:HB2	1:M:1372:ARG:HH22	1.60	0.65
1:M:1211:SER:O	1:M:1215:VAL:HG23	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1328:VAL:H	1:M:1329:ASP:HA	1.60	0.65
2:N:16:ASP:O	2:N:19:THR:HG22	1.95	0.65
7:S:51:ASP:CA	7:S:55:ILE:CD1	2.59	0.65
9:U:58:VAL:O	9:U:58:VAL:HG13	1.95	0.65
10:V:4:PRO:HG2	10:V:48:MET:CE	2.26	0.65
10:V:42:ARG:HB3	10:V:44:CYS:CB	2.26	0.65
10:V:44:CYS:SG	10:V:45:CYS:N	2.69	0.65
1:A:104:ILE:O	1:A:105:LEU:C	2.35	0.65
1:A:194:LYS:HG3	1:A:195:ARG:N	2.10	0.65
1:A:194:LYS:CG	1:A:195:ARG:N	2.59	0.65
1:A:429:ASP:C	1:A:430:ILE:CD1	2.63	0.65
1:A:879:LEU:HD13	1:A:960:PRO:HG3	1.78	0.65
1:A:1137:VAL:HA	1:A:1140:GLN:HB2	1.78	0.65
2:B:16:ASP:O	2:B:19:THR:HG22	1.96	0.65
2:B:273:ARG:NH1	2:B:310:ILE:HD12	2.12	0.65
2:B:287:ILE:CD1	2:B:368:ILE:CD1	2.74	0.65
2:B:871:THR:O	2:B:872:LEU:CD2	2.44	0.65
4:D:14:LYS:O	4:D:15:LEU:HG	1.95	0.65
7:G:101:PHE:CD1	7:G:110:PHE:HD1	2.14	0.65
10:J:4:PRO:HG2	10:J:48:MET:CE	2.26	0.65
1:M:69:CYS:SG	1:M:69:CYS:O	2.55	0.65
1:M:150:CYS:SG	1:M:177:ALA:N	2.70	0.65
1:M:478:LEU:HD13	2:N:824:GLN:NE2	2.12	0.65
1:M:524:LYS:HD2	1:M:632:GLN:HA	1.78	0.65
1:M:1320:THR:CG2	1:M:1321:GLU:H	2.10	0.65
2:N:317:LEU:HB3	2:N:335:LEU:HD23	1.77	0.65
2:N:871:THR:O	2:N:872:LEU:CD2	2.44	0.65
2:N:1185:PRO:HB2	2:N:1187:ALA:HB3	1.77	0.65
3:O:45:ILE:HD11	3:O:66:LEU:HB3	1.78	0.65
7:S:31:LEU:HD22	7:S:73:VAL:HG11	1.77	0.65
1:A:69:CYS:O	1:A:69:CYS:SG	2.54	0.65
1:A:433:ARG:NH1	1:A:435:GLY:HA3	2.11	0.65
1:A:457:HIS:CD2	1:A:1077:GLU:OE2	2.49	0.65
1:A:678:ASP:HB3	1:A:681:THR:OG1	1.96	0.65
2:B:211:PHE:CZ	2:B:384:ARG:NH1	2.64	0.65
2:B:402:LEU:HD13	2:B:452:TRP:CZ3	2.31	0.65
2:B:1002:ASN:HD21	2:B:1004:HIS:HB2	1.62	0.65
5:E:51:ASN:O	5:E:52:LEU:C	2.34	0.65
5:E:130:PHE:CE1	5:E:181:ARG:HB3	2.32	0.65
7:G:164:MET:CE	7:G:170:GLY:N	2.59	0.65
1:M:57:ASP:O	1:M:59:ARG:C	2.35	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:83:PHE:CE2	2:N:1196:MET:HB3	2.31	0.65
1:M:1083:THR:CG2	1:M:1084:LEU:H	2.09	0.65
1:M:1119:LEU:N	1:M:1314:THR:CG2	2.57	0.65
3:O:48:VAL:HG12	3:O:158:CYS:SG	2.37	0.65
5:Q:51:ASN:O	5:Q:52:LEU:C	2.34	0.65
6:R:104:GLU:HG3	6:R:105:THR:H	1.61	0.65
9:U:71:SER:OG	9:U:83:ALA:HB3	1.97	0.65
1:A:38:GLU:O	1:A:40:PRO:CD	2.42	0.65
1:A:65:ARG:O	1:A:67:PHE:N	2.30	0.65
1:A:407:GLY:C	1:A:441:HIS:HD1	1.99	0.65
1:A:1100:GLY:O	1:A:1101:VAL:C	2.34	0.65
1:A:1395:ILE:O	1:A:1395:ILE:CG1	2.45	0.65
2:B:712:PRO:O	2:B:713:ALA:C	2.34	0.65
2:B:1185:PRO:HB2	2:B:1187:ALA:HB3	1.77	0.65
4:D:57:LYS:CD	7:G:106:PRO:HA	2.26	0.65
9:I:71:SER:OG	9:I:83:ALA:HB3	1.97	0.65
1:M:38:GLU:C	1:M:40:PRO:HD3	2.15	0.65
1:M:176:GLY:O	1:M:177:ALA:HB2	1.96	0.65
1:M:255:SER:O	1:M:256:ILE:CB	2.40	0.65
1:M:269:THR:O	1:M:271:LYS:N	2.30	0.65
1:M:322:GLN:OE1	1:M:328:LEU:HG	1.93	0.65
1:M:386:VAL:HG21	1:M:436:TRP:NE1	2.12	0.65
1:M:391:ILE:HG22	1:M:392:TYR:N	2.12	0.65
1:M:948:PHE:C	1:M:950:PHE:H	1.99	0.65
1:M:1119:LEU:CA	1:M:1314:THR:HG22	2.27	0.65
2:N:315:ILE:O	2:N:318:ASP:HB2	1.97	0.65
2:N:457:ARG:O	2:N:459:MET:N	2.30	0.65
5:Q:100:LYS:C	5:Q:101:THR:HG23	2.16	0.65
6:R:95:ALA:HB1	6:R:96:PRO:HD2	1.78	0.65
7:S:84:ARG:HA	7:S:148:ILE:HG22	1.78	0.65
8:T:38:LEU:HD22	8:T:39:THR:H	1.62	0.65
10:V:7:CYS:HB2	10:V:45:CYS:HB3	1.60	0.65
1:A:338:LYS:CG	1:A:339:GLU:N	2.60	0.65
1:A:605:ASN:N	1:A:606:PRO:HA	2.10	0.65
1:A:640:TRP:H	1:A:641:LYS:C	2.00	0.65
2:B:200:GLN:NE2	2:B:465:VAL:HG21	2.11	0.65
2:B:657:ILE:HD12	2:B:657:ILE:N	2.11	0.65
2:B:831:ASN:C	2:B:831:ASN:ND2	2.48	0.65
2:B:1206:THR:OG1	2:B:1207:LYS:N	2.30	0.65
4:D:43:ARG:C	4:D:44:GLU:HG3	2.17	0.65
1:M:148:MET:O	1:M:149:VAL:HG23	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:331:ILE:HD13	2:N:1198:MET:SD	2.37	0.65
1:M:512:MET:O	1:M:514:PRO:N	2.30	0.65
1:M:592:ILE:HG21	1:M:639:ILE:CG2	2.27	0.65
1:M:712:PRO:C	1:M:714:MET:H	2.00	0.65
1:M:835:VAL:O	1:M:837:THR:N	2.30	0.65
1:M:1279:LEU:O	1:M:1281:GLY:N	2.30	0.65
1:M:1501:ASP:O	1:M:1503:ALA:N	2.30	0.65
2:N:215:ALA:O	2:N:217:SER:CB	2.44	0.65
4:P:84:ARG:O	4:P:85:PHE:HB2	1.94	0.65
7:S:94:THR:OG1	7:S:101:PHE:HB2	1.96	0.65
8:T:74:TYR:HE2	8:T:76:MET:HG3	1.61	0.65
8:T:83:VAL:HG22	8:T:93:VAL:HG22	1.79	0.65
1:A:6:PHE:O	1:A:8:PRO:N	2.30	0.65
1:A:1195:LEU:CD2	1:A:1242:ARG:CZ	2.75	0.65
1:A:1261:GLU:O	1:A:1262:GLU:C	2.34	0.65
1:A:1388:MET:HE2	1:A:1395:ILE:HD13	1.77	0.65
1:A:1484:THR:N	1:A:1485:PRO:HD3	2.11	0.65
1:A:1490:PRO:O	1:A:1493:ASP:N	2.30	0.65
2:B:264:SER:HB2	2:B:322:LYS:HZ1	1.58	0.65
2:B:376:LEU:O	2:B:376:LEU:HD23	1.97	0.65
2:B:641:ARG:H	2:B:644:HIS:CD2	2.13	0.65
2:B:1163:TYR:O	2:B:1163:TYR:CD1	2.50	0.65
3:C:87:THR:HG21	3:C:161:LYS:CD	2.26	0.65
4:D:24:MET:HE1	4:D:88:PHE:CE1	2.32	0.65
1:M:20:GLN:OE1	2:N:1205:PHE:CD1	2.49	0.65
1:M:120:SER:OG	1:M:121:ASN:ND2	2.30	0.65
1:M:148:MET:C	1:M:149:VAL:HG23	2.17	0.65
1:M:269:THR:OG1	1:M:270:HIS:N	2.30	0.65
1:M:433:ARG:HB3	1:M:436:TRP:CD2	2.31	0.65
1:M:646:GLU:H	1:M:648:CYS:N	1.93	0.65
1:M:947:LYS:CB	1:M:948:PHE:HA	2.26	0.65
1:M:948:PHE:O	1:M:950:PHE:N	2.30	0.65
1:M:1138:GLN:HG2	1:M:1312:LEU:HD21	1.78	0.65
1:M:1191:GLN:O	1:M:1192:SER:CB	2.44	0.65
1:M:1288:VAL:HG12	1:M:1289:TYR:N	2.10	0.65
1:M:1496:PHE:CZ	4:P:75:TYR:CE1	2.85	0.65
1:M:1500:PRO:O	1:M:1501:ASP:C	2.35	0.65
2:N:207:ILE:HD12	2:N:207:ILE:O	1.96	0.65
2:N:378:ARG:CG	9:U:52:ASN:HD22	2.09	0.65
2:N:658:ASP:O	2:N:661:GLN:N	2.30	0.65
2:N:856:GLY:HA3	2:N:857:MET:C	2.16	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:117:ASP:O	4:P:120:LEU:N	2.30	0.65
5:Q:5:GLU:HB3	5:Q:8:ILE:HD13	1.77	0.65
7:S:46:ILE:CA	7:S:79:LEU:HD23	2.03	0.65
7:S:96:ASN:O	7:S:98:MET:N	2.30	0.65
9:U:6:TYR:O	9:U:14:LEU:CD2	2.44	0.65
1:A:142:ASN:O	1:A:146:THR:HG23	1.97	0.65
1:A:310:MET:HE3	2:B:1198:MET:HG2	1.78	0.65
1:A:775:ILE:HG13	1:A:1089:TYR:CG	2.31	0.65
1:A:780:ARG:O	1:A:781:ILE:C	2.34	0.65
1:A:846:ARG:NH1	1:A:1392:ARG:H	1.95	0.65
1:A:1493:ASP:OD1	4:D:33:LEU:CD2	2.43	0.65
2:B:440:THR:HG23	2:B:441:ASN:H	1.62	0.65
2:B:654:ARG:CA	2:B:655:TYR:O	2.44	0.65
2:B:759:GLN:HG2	2:B:972:ARG:HA	1.79	0.65
2:B:773:ASN:HB3	10:J:62:TYR:CZ	2.30	0.65
2:B:1054:GLN:HG2	3:C:202:TRP:CZ3	2.32	0.65
4:D:42:ALA:O	4:D:44:GLU:N	2.30	0.65
4:D:70:THR:OG1	4:D:73:ALA:CB	2.45	0.65
5:E:58:SER:HB3	5:E:76:PHE:H	1.62	0.65
5:E:198:GLU:HB2	5:E:199:THR:CA	2.25	0.65
7:G:94:THR:OG1	7:G:101:PHE:HB2	1.96	0.65
8:H:36:MET:HA	8:H:36:MET:CE	2.26	0.65
1:M:77:ALA:O	1:M:79:CYS:N	2.30	0.65
1:M:142:ASN:O	1:M:146:THR:HG23	1.97	0.65
1:M:213:VAL:HG12	1:M:217:PHE:CE2	2.32	0.65
1:M:266:ASP:OD2	1:M:266:ASP:N	2.30	0.65
2:N:199:ALA:C	2:N:200:GLN:HG2	2.16	0.65
2:N:287:ILE:CD1	2:N:368:ILE:CD1	2.74	0.65
2:N:425:ASN:O	2:N:426:ARG:CB	2.34	0.65
2:N:888:ILE:HD11	2:N:938:VAL:HG21	1.78	0.65
2:N:1163:TYR:O	2:N:1163:TYR:CD1	2.50	0.65
7:S:138:ILE:HD11	7:S:171:VAL:HG23	1.79	0.65
1:A:43:MET:SD	1:A:45:GLU:HB2	2.37	0.65
1:A:57:ASP:O	1:A:58:PRO:C	2.36	0.65
1:A:100:LYS:HZ3	1:A:1420:ALA:HB1	1.62	0.65
1:A:433:ARG:HB3	1:A:436:TRP:CD2	2.31	0.65
1:A:949:ILE:HG13	1:A:950:PHE:CD2	2.30	0.65
1:A:1006:SER:HA	1:A:1007:ASP:C	2.17	0.65
1:A:1087:PHE:O	1:A:1088:HIS:C	2.34	0.65
1:A:1119:LEU:HB3	1:A:1314:THR:CG2	2.24	0.65
2:B:325:SER:C	2:B:326:THR:HG23	2.17	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:486:THR:H	2:B:487:PRO:CD	2.08	0.65
2:B:662:ARG:O	2:B:664:GLY:N	2.30	0.65
2:B:888:ILE:HD11	2:B:938:VAL:HG21	1.78	0.65
2:B:993:GLN:H	2:B:994:GLY:HA2	1.58	0.65
4:D:53:ASP:OD1	4:D:54:VAL:N	2.30	0.65
9:I:19:ASP:O	9:I:20:LYS:C	2.36	0.65
1:M:43:MET:SD	1:M:45:GLU:HB2	2.37	0.65
1:M:288:GLU:HB3	1:M:290:ALA:H	1.61	0.65
1:M:347:MET:HE1	1:M:1407:SER:HA	1.77	0.65
1:M:353:PHE:CE2	1:M:381:THR:O	2.50	0.65
1:M:407:GLY:C	1:M:441:HIS:HD1	2.00	0.65
1:M:678:ASP:HB3	1:M:681:THR:OG1	1.96	0.65
1:M:1127:ILE:HB	1:M:1133:LEU:HD22	1.76	0.65
1:M:1261:GLU:O	1:M:1262:GLU:C	2.34	0.65
2:N:165:ILE:O	2:N:165:ILE:HG22	1.97	0.65
2:N:391:ARG:CD	2:N:618:ARG:HH21	2.10	0.65
2:N:423:GLU:C	2:N:424:THR:HG23	2.17	0.65
2:N:565:LYS:HB2	2:N:572:TRP:NE1	2.12	0.65
2:N:662:ARG:O	2:N:664:GLY:N	2.30	0.65
3:O:168:HIS:CD2	3:O:170:LYS:H	2.14	0.65
7:S:93:THR:O	7:S:140:LYS:CG	2.43	0.65
1:A:268:LEU:O	1:A:270:HIS:N	2.30	0.65
1:A:835:VAL:O	1:A:837:THR:N	2.30	0.65
1:A:859:ASP:OD1	1:A:861:THR:HB	1.96	0.65
1:A:948:PHE:O	1:A:950:PHE:N	2.30	0.65
1:A:1191:GLN:O	1:A:1192:SER:CB	2.44	0.65
1:A:1282:VAL:CG1	1:A:1285:ILE:HG13	2.27	0.65
1:A:1490:PRO:O	1:A:1491:MET:C	2.36	0.65
2:B:425:ASN:O	2:B:426:ARG:CB	2.34	0.65
2:B:565:LYS:HB2	2:B:572:TRP:NE1	2.12	0.65
2:B:1207:LYS:O	2:B:1209:HIS:N	2.30	0.65
3:C:33:ARG:NE	3:C:179:PHE:CG	2.65	0.65
6:F:104:GLU:HG3	6:F:105:THR:H	1.61	0.65
1:M:177:ALA:HB1	1:M:179:GLN:N	2.11	0.65
1:M:1402:ALA:O	1:M:1404:MET:N	2.30	0.65
2:N:1206:THR:CG2	2:N:1209:HIS:HB2	2.26	0.65
3:O:36:VAL:O	3:O:174:THR:HG21	1.97	0.65
4:P:53:ASP:OD1	4:P:54:VAL:N	2.30	0.65
4:P:57:LYS:CD	7:S:106:PRO:HA	2.26	0.65
1:A:77:ALA:O	1:A:79:CYS:N	2.30	0.64
1:A:85:HIS:ND1	1:A:244:VAL:HG13	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:343:ARG:NE	1:A:1409:GLU:OE1	2.27	0.64
1:A:349:LYS:HZ1	2:B:1187:ALA:CB	2.10	0.64
1:A:822:HIS:NE2	2:B:752:GLN:O	2.30	0.64
2:B:207:ILE:HA	2:B:208:VAL:CB	2.27	0.64
2:B:281:ARG:CG	9:I:6:TYR:CE1	2.79	0.64
2:B:430:LEU:C	2:B:432:LEU:H	2.01	0.64
3:C:36:VAL:O	3:C:174:THR:HG21	1.97	0.64
3:C:168:HIS:CD2	3:C:170:LYS:H	2.14	0.64
3:C:218:GLU:HB3	3:C:219:PRO:O	1.97	0.64
4:D:25:LEU:HD23	4:D:29:GLU:CD	2.17	0.64
1:M:236:ARG:O	1:M:239:TRP:N	2.30	0.64
1:M:268:LEU:O	1:M:270:HIS:N	2.30	0.64
1:M:337:GLY:HA3	1:M:338:LYS:C	2.07	0.64
1:M:368:ASP:OD1	1:M:649:LYS:HE3	1.98	0.64
1:M:712:PRO:O	1:M:714:MET:N	2.30	0.64
1:M:1092:VAL:O	1:M:1092:VAL:HG13	1.95	0.64
1:M:1101:VAL:O	1:M:1103:ARG:N	2.30	0.64
2:N:273:ARG:NH1	2:N:310:ILE:CD1	2.60	0.64
2:N:900:ILE:HD13	2:N:900:ILE:N	2.11	0.64
4:P:43:ARG:C	4:P:44:GLU:HG3	2.17	0.64
8:T:39:THR:CG2	8:T:103:ALA:HB3	2.25	0.64
1:A:24:LEU:CB	2:B:1199:ASN:O	2.38	0.64
1:A:159:ASP:O	1:A:161:PHE:CD1	2.50	0.64
1:A:192:SER:HB3	1:A:202:LEU:C	2.18	0.64
1:A:337:GLY:HA3	1:A:338:LYS:C	2.07	0.64
1:A:433:ARG:HB3	1:A:436:TRP:CG	2.31	0.64
1:A:524:LYS:HD2	1:A:632:GLN:HA	1.78	0.64
1:A:806:ILE:HD13	1:A:814:LEU:CD2	2.27	0.64
1:A:1064:GLY:HA3	1:A:1065:GLU:HB2	1.79	0.64
2:B:820:SER:OG	2:B:821:GLY:N	2.31	0.64
4:D:32:ILE:HD13	4:D:74:THR:HG21	1.69	0.64
4:D:111:LEU:O	4:D:112:ALA:C	2.33	0.64
8:H:39:THR:CG2	8:H:103:ALA:HB3	2.25	0.64
8:H:74:TYR:HE2	8:H:76:MET:HG3	1.61	0.64
10:J:42:ARG:HB3	10:J:44:CYS:CB	2.26	0.64
1:M:267:ASP:CA	1:M:268:LEU:CB	2.49	0.64
1:M:311:ASP:HB2	1:M:314:ILE:HD11	1.80	0.64
1:M:433:ARG:HB2	1:M:436:TRP:CD2	2.32	0.64
1:M:1161:PRO:CG	1:M:1190:LYS:CG	2.22	0.64
4:P:42:ALA:O	4:P:44:GLU:N	2.30	0.64
8:T:59:ILE:HD12	8:T:113:ARG:HH12	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:78:CYS:O	9:U:79:HIS:CB	2.44	0.64
9:U:81:HIS:CG	9:U:82:GLU:N	2.65	0.64
1:A:37:ILE:CD1	1:A:247:VAL:HG21	2.28	0.64
1:A:154:LEU:H	1:A:173:GLY:HA2	1.62	0.64
1:A:236:ARG:O	1:A:239:TRP:N	2.30	0.64
1:A:394:LEU:O	1:A:394:LEU:HD23	1.97	0.64
1:A:712:PRO:O	1:A:714:MET:N	2.30	0.64
1:A:1104:LEU:HD12	1:A:1104:LEU:O	1.96	0.64
1:A:1219:ILE:CG2	1:A:1273:MET:HE1	2.27	0.64
2:B:497:PRO:O	2:B:499:GLN:N	2.30	0.64
3:C:137:ASP:OD2	3:C:140:SER:CB	2.46	0.64
4:D:64:VAL:O	4:D:64:VAL:HG12	1.96	0.64
9:I:81:HIS:CG	9:I:82:GLU:N	2.65	0.64
1:M:57:ASP:O	1:M:59:ARG:N	2.30	0.64
1:M:127:THR:HA	1:M:130:TYR:CD2	2.23	0.64
1:M:159:ASP:O	1:M:161:PHE:CD1	2.51	0.64
1:M:430:ILE:O	1:M:431:PRO:C	2.36	0.64
1:M:559:VAL:N	1:M:560:PRO:HA	2.12	0.64
1:M:812:ARG:CB	1:M:813:GLY:HA2	2.20	0.64
1:M:1104:LEU:HD12	1:M:1104:LEU:O	1.96	0.64
5:Q:195:ARG:C	5:Q:197:SER:H	2.01	0.64
11:W:38:ASP:HB3	11:W:70:PHE:HD2	1.61	0.64
1:A:15:ARG:HD3	1:A:1438:GLN:NE2	2.11	0.64
1:A:57:ASP:O	1:A:59:ARG:C	2.35	0.64
1:A:117:ILE:HD13	1:A:143:VAL:HG11	1.80	0.64
1:A:120:SER:OG	1:A:121:ASN:ND2	2.30	0.64
1:A:773:GLN:HA	1:A:805:PHE:HA	1.78	0.64
1:A:874:TYR:HB3	1:A:1061:VAL:HG11	1.78	0.64
1:A:1119:LEU:CA	1:A:1314:THR:HG22	2.27	0.64
1:A:1275:GLU:O	1:A:1276:SER:HB3	1.96	0.64
1:A:1412:VAL:O	1:A:1413:GLU:C	2.35	0.64
1:A:1450:TYR:CB	7:G:60:GLY:O	2.45	0.64
1:A:1462:GLY:C	1:A:1463:THR:CG2	2.66	0.64
2:B:244:MET:HG2	2:B:254:THR:O	1.98	0.64
2:B:486:THR:N	2:B:487:PRO:HD3	2.09	0.64
2:B:581:HIS:O	2:B:585:THR:HG22	1.97	0.64
2:B:1026:LEU:CB	2:B:1051:HIS:HD2	2.06	0.64
1:M:185:ASP:OD2	1:M:190:TRP:CZ3	2.51	0.64
1:M:366:SER:HA	1:M:653:ASN:OD1	1.97	0.64
1:M:390:ASN:O	1:M:392:TYR:N	2.30	0.64
1:M:670:ILE:O	1:M:670:ILE:HG13	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:816:PRO:HG3	2:N:1036:PHE:CD2	2.32	0.64
1:M:946:CYS:HB2	1:M:949:ILE:CG1	2.26	0.64
1:M:1145:THR:HG23	1:M:1146:LEU:N	2.13	0.64
1:M:1449:ILE:HG22	6:R:123:LEU:O	1.97	0.64
2:N:262:ILE:HG22	2:N:323:ARG:O	1.98	0.64
2:N:581:HIS:O	2:N:585:THR:HG22	1.97	0.64
2:N:888:ILE:CD1	2:N:938:VAL:HG21	2.27	0.64
2:N:1002:ASN:HD21	2:N:1004:HIS:HB2	1.62	0.64
2:N:1022:LYS:NZ	2:N:1057:GLY:O	2.31	0.64
2:N:1207:LYS:O	2:N:1209:HIS:N	2.30	0.64
4:P:64:VAL:O	4:P:64:VAL:HG12	1.96	0.64
9:U:79:HIS:CD2	9:U:80:GLN:HE21	2.13	0.64
9:U:95:THR:O	9:U:96:MET:C	2.36	0.64
1:A:269:THR:O	1:A:271:LYS:N	2.30	0.64
1:A:366:SER:HA	1:A:653:ASN:OD1	1.97	0.64
1:A:385:THR:HG23	1:A:437:ARG:CG	2.28	0.64
1:A:478:LEU:HD13	2:B:824:GLN:NE2	2.12	0.64
1:A:512:MET:O	1:A:514:PRO:N	2.30	0.64
1:A:670:ILE:HG13	1:A:670:ILE:O	1.95	0.64
1:A:1402:ALA:O	1:A:1404:MET:N	2.30	0.64
2:B:423:GLU:C	2:B:424:THR:HG23	2.17	0.64
7:G:96:ASN:O	7:G:98:MET:N	2.30	0.64
9:I:53:VAL:O	9:I:55:ASN:N	2.29	0.64
9:I:69:PRO:HB2	9:I:85:PHE:CE2	2.33	0.64
1:M:11:VAL:O	1:M:12:PRO:C	2.36	0.64
1:M:40:PRO:HB3	1:M:276:ILE:HB	1.79	0.64
1:M:66:GLN:O	1:M:67:PHE:CD2	2.50	0.64
1:M:433:ARG:HB3	1:M:436:TRP:CG	2.31	0.64
1:M:1006:SER:HA	1:M:1007:ASP:C	2.17	0.64
1:M:1391:THR:O	1:M:1393:HIS:N	2.30	0.64
2:N:207:ILE:HA	2:N:208:VAL:CB	2.28	0.64
2:N:211:PHE:CE2	2:N:384:ARG:CD	2.79	0.64
2:N:244:MET:HG2	2:N:254:THR:O	1.98	0.64
2:N:273:ARG:NH1	2:N:310:ILE:HD12	2.12	0.64
2:N:486:THR:N	2:N:487:PRO:HD3	2.09	0.64
3:O:218:GLU:HB3	3:O:219:PRO:O	1.97	0.64
1:A:11:VAL:O	1:A:12:PRO:C	2.36	0.64
1:A:57:ASP:O	1:A:59:ARG:N	2.30	0.64
1:A:117:ILE:CG2	1:A:118:ASP:H	2.11	0.64
1:A:331:ILE:HD13	2:B:1198:MET:SD	2.37	0.64
1:A:712:PRO:C	1:A:714:MET:H	2.00	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:916:TYR:O	1:A:918:GLU:N	2.30	0.64
2:B:200:GLN:OE1	2:B:487:PRO:CG	2.46	0.64
2:B:658:ASP:O	2:B:661:GLN:N	2.30	0.64
2:B:777:ARG:HG2	2:B:779:ASP:HB2	1.78	0.64
4:D:22:GLU:OE2	7:G:4:PHE:HB3	1.98	0.64
8:H:83:VAL:HG22	8:H:93:VAL:HG22	1.79	0.64
9:I:95:THR:O	9:I:96:MET:C	2.36	0.64
1:M:135:ASN:O	1:M:137:LEU:N	2.30	0.64
1:M:185:ASP:CG	1:M:190:TRP:CZ3	2.71	0.64
1:M:846:ARG:NH1	1:M:1392:ARG:H	1.95	0.64
1:M:916:TYR:O	1:M:918:GLU:N	2.30	0.64
1:M:1124:MET:HG2	1:M:1327:GLY:O	1.97	0.64
1:M:1195:LEU:CD2	1:M:1242:ARG:CZ	2.75	0.64
1:M:1219:ILE:CG2	1:M:1273:MET:HE1	2.28	0.64
1:M:1390:ILE:O	1:M:1390:ILE:HG22	1.96	0.64
2:N:290:ASP:C	2:N:290:ASP:OD2	2.35	0.64
2:N:430:LEU:C	2:N:432:LEU:H	2.01	0.64
2:N:1054:GLN:HG2	3:O:202:TRP:CZ3	2.32	0.64
2:N:1206:THR:OG1	2:N:1207:LYS:N	2.30	0.64
3:O:33:ARG:NE	3:O:179:PHE:CG	2.65	0.64
1:A:66:GLN:O	1:A:67:PHE:CD2	2.50	0.64
1:A:180:PRO:HG3	1:A:193:TRP:CD1	2.32	0.64
1:A:559:VAL:N	1:A:560:PRO:HA	2.12	0.64
1:A:724:VAL:HA	1:A:727:ILE:HG12	1.80	0.64
1:A:770:CYS:C	1:A:771:VAL:HG23	2.18	0.64
1:A:816:PRO:HG3	2:B:1036:PHE:CD2	2.33	0.64
1:A:1083:THR:CG2	1:A:1084:LEU:N	2.61	0.64
1:A:1154:GLU:HG2	9:I:45:ARG:HG3	1.79	0.64
1:A:1320:THR:CG2	1:A:1321:GLU:H	2.10	0.64
1:A:1348:GLU:HG2	5:E:207:ARG:NH1	2.13	0.64
1:A:1461:LEU:CB	1:A:1462:GLY:HA3	2.16	0.64
2:B:273:ARG:NH1	2:B:310:ILE:CD1	2.60	0.64
2:B:457:ARG:O	2:B:459:MET:N	2.30	0.64
2:B:772:THR:HG23	10:J:62:TYR:OH	1.98	0.64
2:B:869:SER:C	2:B:870:THR:HG22	2.18	0.64
6:F:95:ALA:HB1	6:F:96:PRO:HD2	1.78	0.64
7:G:10:LEU:CD2	7:G:31:LEU:HD12	2.21	0.64
7:G:138:ILE:HD11	7:G:171:VAL:HG23	1.78	0.64
12:L:21:ILE:HD12	12:L:32:THR:HB	1.80	0.64
1:M:57:ASP:O	1:M:58:PRO:C	2.36	0.64
1:M:116:LYS:HB2	1:M:147:LYS:HD2	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:176:GLY:O	1:M:179:GLN:NE2	2.30	0.64
1:M:208:LEU:HD22	1:M:213:VAL:HG23	1.73	0.64
1:M:213:VAL:CG1	1:M:217:PHE:CE2	2.81	0.64
1:M:242:ILE:HD13	1:M:245:LEU:HD13	1.78	0.64
2:N:328:GLY:O	2:N:329:VAL:CB	2.46	0.64
2:N:376:LEU:HD23	2:N:376:LEU:O	1.97	0.64
2:N:486:THR:H	2:N:487:PRO:CD	2.08	0.64
2:N:497:PRO:O	2:N:499:GLN:N	2.30	0.64
5:Q:76:PHE:CD2	5:Q:105:ILE:HG12	2.33	0.64
7:S:35:VAL:CG1	7:S:46:ILE:HG21	2.21	0.64
7:S:100:PHE:O	7:S:111:VAL:HG12	1.98	0.64
7:S:134:GLU:O	7:S:135:ASP:C	2.35	0.64
1:A:90:LYS:CE	1:A:299:GLU:HG2	2.27	0.64
1:A:166:PRO:HB2	1:A:168:ALA:HB2	1.78	0.64
1:A:202:LEU:HB2	1:A:203:PRO:CD	2.01	0.64
1:A:269:THR:OG1	1:A:270:HIS:N	2.30	0.64
1:A:388:PRO:HG3	1:A:434:TYR:HE2	1.63	0.64
1:A:778:GLY:CA	1:A:1091:GLY:O	2.45	0.64
1:A:812:ARG:CB	1:A:813:GLY:HA2	2.25	0.64
1:A:1071:ALA:HB1	1:A:1373:HIS:CB	2.28	0.64
1:A:1489:SER:O	1:A:1490:PRO:C	2.36	0.64
2:B:430:LEU:O	2:B:432:LEU:N	2.30	0.64
2:B:1206:THR:CG2	2:B:1209:HIS:HB2	2.26	0.64
5:E:76:PHE:CD2	5:E:105:ILE:HG12	2.33	0.64
7:G:164:MET:HE1	7:G:170:GLY:N	2.13	0.64
8:H:59:ILE:HD12	8:H:113:ARG:HH12	1.62	0.64
1:M:86:ILE:HG22	1:M:245:LEU:HB3	1.79	0.64
1:M:567:PRO:O	1:M:578:TRP:HZ3	1.80	0.64
1:M:1150:THR:CB	9:U:48:LEU:CD2	2.68	0.64
2:N:869:SER:C	2:N:870:THR:HG22	2.18	0.64
4:P:57:LYS:CB	7:S:105:GLY:O	2.34	0.64
4:P:70:THR:OG1	4:P:73:ALA:CB	2.45	0.64
4:P:99:GLU:HG3	4:P:124:LEU:CD1	2.22	0.64
7:S:46:ILE:CG1	7:S:79:LEU:CD2	2.74	0.64
7:S:164:MET:CE	7:S:170:GLY:N	2.59	0.64
1:A:115:LEU:CD1	1:A:115:LEU:H	2.11	0.64
1:A:153:GLY:C	1:A:154:LEU:HG	2.17	0.64
1:A:433:ARG:HB2	1:A:436:TRP:CD2	2.32	0.64
1:A:526:VAL:O	1:A:526:VAL:HG12	1.98	0.64
1:A:592:ILE:HG21	1:A:639:ILE:CG2	2.27	0.64
1:A:640:TRP:O	1:A:644:GLY:CA	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1124:MET:HG2	1:A:1327:GLY:O	1.97	0.64
1:A:1403:LEU:HB3	1:A:1432:GLU:CD	2.19	0.64
2:B:296:MET:O	2:B:372:LEU:HD13	1.97	0.64
2:B:625:ILE:HD11	2:B:672:GLY:O	1.98	0.64
2:B:888:ILE:CD1	2:B:938:VAL:HG21	2.27	0.64
2:B:1022:LYS:NZ	2:B:1057:GLY:O	2.31	0.64
3:C:47:LEU:HD11	12:L:59:GLN:HE22	1.63	0.64
5:E:77:ALA:HB3	5:E:78:LYS:HA	1.80	0.64
7:G:63:VAL:HG11	7:G:66:GLN:HB2	1.80	0.64
8:H:38:LEU:HD22	8:H:39:THR:H	1.62	0.64
9:I:8:ILE:CG2	9:I:9:GLU:N	2.61	0.64
1:M:38:GLU:O	1:M:40:PRO:CD	2.42	0.64
1:M:388:PRO:HB3	1:M:434:TYR:OH	1.97	0.64
1:M:388:PRO:CG	1:M:434:TYR:HE2	2.11	0.64
1:M:451:ASN:HA	1:M:460:SER:O	1.98	0.64
1:M:770:CYS:C	1:M:771:VAL:HG23	2.18	0.64
1:M:881:ALA:HB2	1:M:1372:ARG:HD2	1.80	0.64
1:M:1064:GLY:HA3	1:M:1065:GLU:HB2	1.79	0.64
1:M:1167:GLU:C	1:M:1168:GLU:HG3	2.11	0.64
1:M:1342:LEU:HD23	1:M:1350:THR:HG21	1.77	0.64
1:M:1403:LEU:HB3	1:M:1432:GLU:CD	2.19	0.64
1:M:1450:TYR:CD1	7:S:60:GLY:C	2.71	0.64
7:S:5:LEU:HD11	7:S:50:LEU:HD12	1.75	0.64
7:S:10:LEU:CD2	7:S:31:LEU:HD12	2.21	0.64
1:A:40:PRO:HB3	1:A:276:ILE:HB	1.79	0.64
1:A:266:ASP:OD2	1:A:266:ASP:N	2.30	0.64
1:A:775:ILE:C	1:A:775:ILE:HD12	2.18	0.64
1:A:778:GLY:CA	1:A:1092:VAL:HG23	2.28	0.64
1:A:1391:THR:O	1:A:1393:HIS:N	2.31	0.64
2:B:309:VAL:O	2:B:310:ILE:C	2.35	0.64
2:B:315:ILE:O	2:B:318:ASP:HB2	1.97	0.64
2:B:759:GLN:O	2:B:763:GLY:N	2.30	0.64
4:D:86:HIS:O	4:D:87:LYS:C	2.36	0.64
4:D:99:GLU:HB3	4:D:124:LEU:HD21	1.78	0.64
1:M:117:ILE:HD13	1:M:143:VAL:HG11	1.80	0.64
1:M:271:LYS:CE	1:M:328:LEU:HD12	2.28	0.64
1:M:1348:GLU:HG2	5:Q:207:ARG:NH1	2.13	0.64
1:M:1403:LEU:HD23	1:M:1432:GLU:HG3	1.77	0.64
2:N:292:ASN:H	2:N:293:ASP:CB	2.11	0.64
2:N:651:ASP:HA	2:N:654:ARG:HG3	1.80	0.64
7:S:63:VAL:HG23	7:S:68:PHE:O	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:135:ASP:O	7:S:137:VAL:HG23	1.98	0.64
1:A:231:ASN:HD22	1:A:234:TYR:H	1.46	0.63
1:A:271:LYS:CE	1:A:328:LEU:HD12	2.28	0.63
1:A:430:ILE:O	1:A:431:PRO:C	2.36	0.63
1:A:1101:VAL:O	1:A:1103:ARG:N	2.30	0.63
1:A:1103:ARG:O	1:A:1106:GLU:N	2.30	0.63
1:A:1125:PRO:HB3	1:A:1128:ALA:HA	1.79	0.63
1:A:1433:ASN:HD22	1:A:1441:PRO:HD3	1.64	0.63
1:A:1450:TYR:CE2	6:F:125:ARG:CD	2.81	0.63
1:A:1459:TYR:HD1	1:A:1460:SER:N	1.94	0.63
2:B:87:PRO:CG	2:B:157:ILE:HD12	2.25	0.63
2:B:280:ASP:O	2:B:282:ASP:N	2.30	0.63
2:B:376:LEU:HD22	2:B:378:ARG:HG3	1.80	0.63
3:C:137:ASP:OD2	3:C:140:SER:HB3	1.98	0.63
7:G:62:VAL:HG22	7:G:69:ALA:HB2	1.80	0.63
11:K:38:ASP:HB3	11:K:70:PHE:HD2	1.61	0.63
1:M:87:GLU:O	1:M:88:LEU:CG	2.47	0.63
1:M:349:LYS:NZ	2:N:1145:ASP:OD1	2.22	0.63
1:M:724:VAL:HA	1:M:727:ILE:HG12	1.80	0.63
1:M:874:TYR:HB3	1:M:1061:VAL:HG11	1.78	0.63
1:M:1459:TYR:CE2	6:R:98:LEU:HD22	2.32	0.63
2:N:440:THR:HG23	2:N:441:ASN:H	1.62	0.63
5:Q:77:ALA:HB3	5:Q:78:LYS:HA	1.80	0.63
12:X:21:ILE:HD12	12:X:32:THR:HB	1.80	0.63
1:A:72:CYS:CB	2:B:1161:ALA:O	2.44	0.63
1:A:87:GLU:O	1:A:88:LEU:CG	2.47	0.63
1:A:178:ALA:C	1:A:179:GLN:HG3	2.18	0.63
1:A:258:VAL:O	1:A:259:ASP:C	2.36	0.63
1:A:321:LEU:CB	1:A:325:GLY:HA2	2.20	0.63
1:A:783:PHE:CE2	1:A:803:ARG:NH1	2.66	0.63
1:A:881:ALA:HB2	1:A:1372:ARG:HD2	1.80	0.63
2:B:290:ASP:C	2:B:290:ASP:OD2	2.35	0.63
3:C:108:LYS:HA	3:C:153:GLU:HG2	1.80	0.63
6:F:69:ARG:HD3	6:F:136:TRP:CH2	2.34	0.63
8:H:7:LEU:HD13	8:H:57:LEU:HD11	1.79	0.63
1:M:6:PHE:O	1:M:8:PRO:N	2.30	0.63
1:M:16:VAL:HG22	2:N:1182:VAL:HG21	1.80	0.63
1:M:65:ARG:O	1:M:67:PHE:N	2.30	0.63
1:M:260:GLY:N	2:N:924:ARG:CD	2.60	0.63
1:M:266:ASP:HA	1:M:267:ASP:CG	2.19	0.63
1:M:311:ASP:CB	1:M:314:ILE:CG1	2.77	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:512:MET:C	1:M:514:PRO:HD2	2.19	0.63
1:M:1083:THR:CG2	1:M:1084:LEU:N	2.61	0.63
1:M:1125:PRO:HB3	1:M:1128:ALA:HA	1.79	0.63
2:N:87:PRO:CG	2:N:157:ILE:HD12	2.25	0.63
2:N:262:ILE:HD13	2:N:262:ILE:N	2.13	0.63
2:N:281:ARG:CG	9:U:6:TYR:CE1	2.80	0.63
7:S:62:VAL:HG22	7:S:69:ALA:HB2	1.80	0.63
1:A:30:ARG:NE	1:A:244:VAL:HG21	2.14	0.63
1:A:168:ALA:O	1:A:169:ASN:HB3	1.99	0.63
1:A:357:THR:HG22	1:A:474:PHE:CD2	2.34	0.63
1:A:1091:GLY:HA2	1:A:1092:VAL:HB	1.71	0.63
1:A:1172:PHE:O	1:A:1176:PHE:HD2	1.78	0.63
1:A:1450:TYR:CE1	7:G:61:ARG:HB2	2.33	0.63
2:B:102:GLN:HB3	2:B:105:ARG:CD	2.28	0.63
2:B:488:ILE:HB	2:B:490:ARG:N	2.13	0.63
3:C:84:LEU:O	3:C:84:LEU:CD2	2.35	0.63
4:D:68:PHE:O	4:D:70:THR:N	2.31	0.63
6:F:98:LEU:HD12	6:F:121:PRO:HD3	1.80	0.63
1:M:58:PRO:C	1:M:60:LEU:HG	2.17	0.63
1:M:90:LYS:CE	1:M:299:GLU:HG2	2.27	0.63
1:M:154:LEU:H	1:M:173:GLY:HA2	1.61	0.63
1:M:258:VAL:O	1:M:259:ASP:C	2.36	0.63
1:M:773:GLN:HA	1:M:805:PHE:HA	1.80	0.63
1:M:789:THR:OG1	1:M:821:PHE:CZ	2.52	0.63
1:M:1192:SER:CA	1:M:1245:ILE:O	2.43	0.63
2:N:232:GLY:O	2:N:233:SER:CB	2.46	0.63
2:N:278:VAL:H	2:N:279:PRO:HD2	1.61	0.63
2:N:310:ILE:CB	2:N:311:GLN:CA	2.37	0.63
3:O:137:ASP:OD2	3:O:140:SER:HB3	1.98	0.63
8:T:110:LYS:HD2	8:T:113:ARG:HH21	1.63	0.63
8:T:113:ARG:O	8:T:115:SER:N	2.31	0.63
10:V:12:LYS:HE3	10:V:42:ARG:NH2	2.13	0.63
1:A:71:THR:HG23	2:B:1160:ILE:HG22	1.79	0.63
1:A:215:THR:O	1:A:219:HIS:CD2	2.51	0.63
1:A:451:ASN:HA	1:A:460:SER:O	1.98	0.63
1:A:512:MET:C	1:A:514:PRO:HD2	2.19	0.63
1:A:1180:PRO:O	1:A:1181:ASP:C	2.36	0.63
1:A:1295:ILE:HG21	1:A:1309:GLU:HG2	1.80	0.63
1:A:1461:LEU:HD12	1:A:1461:LEU:H	1.63	0.63
2:B:278:VAL:H	2:B:279:PRO:HD2	1.61	0.63
2:B:292:ASN:H	2:B:293:ASP:CB	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:222:PHE:CD2	8:H:46:ILE:HG22	2.34	0.63
7:G:12:ILE:HD11	7:G:31:LEU:HB2	1.80	0.63
8:H:110:LYS:HD2	8:H:113:ARG:HH21	1.63	0.63
1:M:640:TRP:H	1:M:641:LYS:C	2.00	0.63
1:M:1071:ALA:HB1	1:M:1373:HIS:CB	2.28	0.63
1:M:1281:GLY:O	1:M:1283:PRO:CD	2.46	0.63
2:N:552:LEU:HD23	2:N:553:GLU:HG3	1.81	0.63
3:O:84:LEU:HD23	3:O:84:LEU:C	2.17	0.63
4:P:84:ARG:HG3	4:P:85:PHE:N	2.13	0.63
7:S:126:ALA:O	7:S:127:ASN:C	2.37	0.63
9:U:4:PHE:HE2	9:U:43:VAL:HG13	1.61	0.63
1:A:213:VAL:CG1	1:A:217:PHE:CE2	2.81	0.63
1:A:413:ARG:HD2	1:A:419:ILE:CD1	2.29	0.63
1:A:413:ARG:HD2	1:A:419:ILE:HD11	1.80	0.63
1:A:971:LEU:HD11	1:A:1038:TYR:HB2	1.80	0.63
2:B:232:GLY:O	2:B:233:SER:CB	2.46	0.63
2:B:298:GLU:O	2:B:300:MET:N	2.32	0.63
2:B:317:LEU:HD21	2:B:339:HIS:CE1	2.34	0.63
2:B:391:ARG:HG2	2:B:618:ARG:HH21	1.64	0.63
2:B:651:ASP:HA	2:B:654:ARG:HG3	1.80	0.63
4:D:117:ASP:O	4:D:120:LEU:N	2.30	0.63
9:I:99:LEU:HD23	9:I:100:ILE:N	2.13	0.63
10:J:4:PRO:HG2	10:J:48:MET:HE2	1.80	0.63
10:J:12:LYS:HE3	10:J:42:ARG:NH2	2.14	0.63
1:M:37:ILE:CD1	1:M:247:VAL:HG21	2.28	0.63
1:M:68:LYS:O	1:M:69:CYS:C	2.36	0.63
1:M:254:PRO:HG2	1:M:266:ASP:CB	2.27	0.63
1:M:971:LEU:HD11	1:M:1038:TYR:HB2	1.80	0.63
1:M:1166:ILE:HD12	1:M:1169:ASP:O	1.99	0.63
2:N:300:MET:O	2:N:303:CYS:N	2.32	0.63
2:N:309:VAL:O	2:N:310:ILE:C	2.35	0.63
2:N:507:MET:HG3	2:N:619:ILE:HD12	1.81	0.63
2:N:1080:TYR:HD2	2:N:1080:TYR:N	1.91	0.63
3:O:87:THR:HG21	3:O:161:LYS:CD	2.26	0.63
3:O:137:ASP:OD2	3:O:140:SER:CB	2.46	0.63
4:P:86:HIS:O	4:P:87:LYS:C	2.36	0.63
4:P:98:CYS:HA	4:P:99:GLU:CB	2.24	0.63
9:U:67:THR:O	9:U:67:THR:CG2	2.41	0.63
1:A:64:ASP:O	1:A:67:PHE:HD1	1.82	0.63
1:A:77:ALA:HB2	2:B:1105:ARG:NH2	2.09	0.63
1:A:176:GLY:O	1:A:177:ALA:CB	2.47	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:800:PRO:C	1:A:802:SER:H	2.00	0.63
1:A:1395:ILE:HD11	1:A:1397:ARG:CG	2.29	0.63
2:B:262:ILE:HD13	2:B:262:ILE:N	2.13	0.63
2:B:307:ALA:HB1	2:B:310:ILE:CG1	2.29	0.63
2:B:658:ASP:HB3	2:B:659:PRO:CD	2.29	0.63
7:G:63:VAL:HG23	7:G:68:PHE:O	1.98	0.63
7:G:82:PRO:HG3	7:G:107:LEU:HD22	1.80	0.63
7:G:135:ASP:O	7:G:137:VAL:HG23	1.99	0.63
8:H:113:ARG:O	8:H:115:SER:N	2.31	0.63
9:I:97:MET:O	9:I:99:LEU:N	2.30	0.63
1:M:56:LEU:HD12	1:M:56:LEU:O	1.98	0.63
1:M:312:ASN:HD21	1:M:330:SER:H	1.47	0.63
1:M:584:LEU:HD23	1:M:584:LEU:O	1.96	0.63
1:M:800:PRO:C	1:M:802:SER:H	2.01	0.63
1:M:885:GLU:OE2	1:M:962:ASN:HB2	1.99	0.63
1:M:1103:ARG:O	1:M:1106:GLU:N	2.30	0.63
2:N:200:GLN:OE1	2:N:487:PRO:CG	2.46	0.63
2:N:259:LEU:HD22	2:N:346:LEU:HD11	1.80	0.63
2:N:430:LEU:O	2:N:432:LEU:N	2.30	0.63
2:N:485:ASN:HB3	2:N:487:PRO:HD3	1.80	0.63
6:R:69:ARG:HD3	6:R:136:TRP:CH2	2.34	0.63
6:R:98:LEU:HD12	6:R:121:PRO:HD3	1.80	0.63
7:S:3:PHE:CD1	7:S:80:TRP:HD1	2.17	0.63
1:A:101:ILE:CD1	1:A:217:PHE:CE2	2.72	0.63
1:A:342:LEU:O	1:A:347:MET:HG2	1.99	0.63
1:A:836:LYS:HE3	1:A:1080:THR:HB	1.80	0.63
2:B:165:ILE:O	2:B:165:ILE:HG22	1.97	0.63
2:B:199:ALA:HB3	2:B:484:THR:CB	2.28	0.63
2:B:497:PRO:O	2:B:498:ARG:C	2.37	0.63
5:E:195:ARG:C	5:E:197:SER:H	2.01	0.63
7:G:100:PHE:O	7:G:111:VAL:HG12	1.98	0.63
9:I:69:PRO:HG3	9:I:85:PHE:CE1	2.34	0.63
1:M:86:ILE:HG22	1:M:245:LEU:O	1.99	0.63
1:M:94:HIS:C	1:M:98:LEU:HG	2.19	0.63
1:M:95:ILE:CD1	1:M:314:ILE:HD13	2.29	0.63
1:M:413:ARG:HD2	1:M:419:ILE:HD11	1.80	0.63
1:M:558:TRP:O	1:M:559:VAL:CG1	2.40	0.63
1:M:827:ARG:HG3	1:M:827:ARG:NH1	2.12	0.63
1:M:874:TYR:HB2	1:M:878:GLY:HA2	1.81	0.63
2:N:759:GLN:O	2:N:763:GLY:N	2.29	0.63
2:N:1148:ARG:CD	2:N:1181:GLN:NE2	2.61	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1150:ILE:HD12	2:N:1150:ILE:N	2.13	0.63
5:Q:58:SER:HB3	5:Q:76:PHE:H	1.62	0.63
8:T:7:LEU:HD13	8:T:57:LEU:HD11	1.79	0.63
1:A:83:PHE:CE2	2:B:1196:MET:HB3	2.31	0.63
1:A:178:ALA:O	1:A:179:GLN:HG3	1.98	0.63
1:A:195:ARG:HG3	1:A:196:GLY:N	2.14	0.63
1:A:221:SER:O	1:A:224:ASP:HB2	1.99	0.63
1:A:266:ASP:HA	1:A:267:ASP:CG	2.19	0.63
1:A:321:LEU:HD22	1:A:325:GLY:HA2	1.81	0.63
2:B:207:ILE:HB	2:B:209:GLN:HB2	1.81	0.63
2:B:259:LEU:HD22	2:B:346:LEU:HD11	1.80	0.63
2:B:562:ASN:ND2	2:B:608:LYS:HG2	2.09	0.63
2:B:576:HIS:CD2	2:B:577:ARG:N	2.67	0.63
1:M:231:ASN:HD22	1:M:234:TYR:H	1.46	0.63
1:M:402:PRO:HA	1:M:441:HIS:HE1	1.64	0.63
1:M:507:ILE:CA	1:M:511:THR:HG23	2.23	0.63
1:M:526:VAL:O	1:M:526:VAL:HG12	1.98	0.63
1:M:803:ARG:O	1:M:804:GLY:C	2.37	0.63
1:M:879:LEU:HD12	1:M:960:PRO:HG3	1.76	0.63
1:M:1431:SER:HA	1:M:1434:ILE:CG1	2.29	0.63
1:M:1450:TYR:O	1:M:1451:LEU:HG	1.99	0.63
2:N:24:PHE:CZ	2:N:28:THR:HG21	2.34	0.63
2:N:207:ILE:HB	2:N:209:GLN:HB2	1.81	0.63
2:N:280:ASP:O	2:N:282:ASP:N	2.30	0.63
2:N:296:MET:O	2:N:372:LEU:HD13	1.98	0.63
2:N:576:HIS:CD2	2:N:577:ARG:N	2.67	0.63
2:N:867:VAL:O	2:N:871:THR:HG23	1.99	0.63
2:N:986:GLU:HB2	3:O:34:ARG:HH21	1.64	0.63
5:Q:198:GLU:HB2	5:Q:199:THR:CA	2.25	0.63
7:S:82:PRO:HG3	7:S:107:LEU:HD22	1.80	0.63
1:A:56:LEU:HD12	1:A:56:LEU:O	1.98	0.63
1:A:90:LYS:O	1:A:91:PRO:C	2.37	0.63
1:A:312:ASN:HD21	1:A:330:SER:H	1.47	0.63
1:A:827:ARG:HG3	1:A:827:ARG:NH1	2.12	0.63
1:A:874:TYR:HB2	1:A:878:GLY:HA2	1.81	0.63
1:A:1016:ASN:HA	1:A:1019:LEU:HB2	1.80	0.63
1:A:1255:ASP:O	1:A:1256:ASP:CB	2.32	0.63
1:A:1466:PRO:O	1:A:1469:ALA:N	2.32	0.63
2:B:1058:PHE:HE1	3:C:193:TRP:CD1	2.17	0.63
4:D:68:PHE:HB3	4:D:73:ALA:HB3	1.80	0.63
4:D:99:GLU:HG3	4:D:124:LEU:CD1	2.21	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:52:ASP:O	11:K:55:VAL:HG23	1.99	0.63
1:M:51:ARG:O	1:M:52:VAL:CB	2.38	0.63
1:M:413:ARG:HD2	1:M:419:ILE:CD1	2.29	0.63
2:N:658:ASP:HB3	2:N:659:PRO:CD	2.29	0.63
2:N:686:MET:O	2:N:728:THR:HG22	1.98	0.63
2:N:741:LEU:HD23	2:N:741:LEU:O	1.99	0.63
2:N:752:GLN:O	2:N:753:SER:CB	2.45	0.63
2:N:772:THR:HG23	10:V:62:TYR:OH	1.98	0.63
9:U:8:ILE:CG2	9:U:9:GLU:N	2.61	0.63
9:U:69:PRO:HB2	9:U:85:PHE:CE2	2.33	0.63
1:A:24:LEU:HB2	2:B:1199:ASN:CA	2.29	0.62
1:A:58:PRO:C	1:A:60:LEU:HG	2.18	0.62
1:A:68:LYS:O	1:A:69:CYS:C	2.37	0.62
2:B:426:ARG:O	2:B:428:PHE:N	2.31	0.62
2:B:741:LEU:O	2:B:741:LEU:HD23	1.99	0.62
1:M:110:TRP:CZ2	1:M:180:PRO:HG2	2.33	0.62
1:M:221:SER:O	1:M:224:ASP:HB2	1.99	0.62
1:M:383:PRO:O	1:M:384:GLU:CB	2.47	0.62
1:M:1121:ILE:O	1:M:1311:VAL:HG13	1.99	0.62
1:M:1173:VAL:HG12	1:M:1177:PHE:HE2	0.66	0.62
2:N:376:LEU:HD22	2:N:378:ARG:HG3	1.80	0.62
2:N:629:ASN:HB3	2:N:630:PRO:C	2.20	0.62
2:N:820:SER:OG	2:N:821:GLY:N	2.31	0.62
2:N:899:ILE:HD12	2:N:899:ILE:C	2.19	0.62
3:O:47:LEU:HD11	12:X:59:GLN:HE22	1.63	0.62
5:Q:23:HIS:N	5:Q:24:ASP:HB2	2.14	0.62
7:S:12:ILE:HD11	7:S:31:LEU:HB2	1.80	0.62
1:A:5:GLN:O	1:A:8:PRO:CG	2.47	0.62
1:A:36:LYS:O	1:A:37:ILE:CB	2.47	0.62
1:A:709:LYS:CB	1:A:710:PRO:CD	2.56	0.62
1:A:1181:ASP:HA	1:A:1184:VAL:HG23	1.81	0.62
2:B:310:ILE:CB	2:B:311:GLN:CA	2.37	0.62
2:B:507:MET:HG3	2:B:619:ILE:HD12	1.81	0.62
3:C:168:HIS:CD2	3:C:170:LYS:CB	2.82	0.62
4:D:57:LYS:CB	7:G:105:GLY:O	2.34	0.62
7:G:3:PHE:CD1	7:G:80:TRP:HD1	2.17	0.62
7:G:93:THR:O	7:G:140:LYS:CG	2.43	0.62
7:G:126:ALA:O	7:G:127:ASN:C	2.37	0.62
7:G:155:ALA:O	7:G:157:GLU:N	2.30	0.62
9:I:39:ALA:C	9:I:40:THR:HG23	2.20	0.62
9:I:59:SER:O	9:I:61:ASP:N	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:24:LEU:CD2	2:N:1201:ALA:HB2	2.29	0.62
1:M:40:PRO:CA	1:M:276:ILE:CG2	2.78	0.62
1:M:378:LYS:HA	1:M:441:HIS:HD2	1.64	0.62
1:M:520:PRO:HB3	1:M:882:THR:N	2.14	0.62
1:M:1150:THR:O	1:M:1151:SER:OG	2.17	0.62
1:M:1392:ARG:O	1:M:1393:HIS:ND1	2.32	0.62
1:M:1395:ILE:O	1:M:1395:ILE:CG1	2.45	0.62
2:N:229:LEU:CD1	2:N:231:ARG:NE	2.62	0.62
2:N:263:ARG:HB2	2:N:322:LYS:O	1.98	0.62
2:N:298:GLU:O	2:N:300:MET:N	2.32	0.62
2:N:307:ALA:HB1	2:N:310:ILE:CG1	2.29	0.62
2:N:317:LEU:HD21	2:N:339:HIS:CE1	2.34	0.62
2:N:625:ILE:HD11	2:N:672:GLY:O	1.98	0.62
2:N:758:TYR:O	2:N:760:SER:N	2.30	0.62
2:N:854:LYS:HZ2	2:N:950:LEU:HD11	1.63	0.62
3:O:222:PHE:CD2	8:T:46:ILE:HG22	2.34	0.62
4:P:68:PHE:O	4:P:70:THR:N	2.31	0.62
1:A:104:ILE:HG23	1:A:107:CYS:HB2	1.81	0.62
1:A:820:PHE:CZ	2:B:500:LEU:HD11	2.34	0.62
1:A:1094:SER:O	1:A:1095:LYS:CD	2.46	0.62
1:A:1160:ASP:OD1	9:I:23:ARG:CD	2.47	0.62
1:A:1462:GLY:C	1:A:1463:THR:HG23	2.20	0.62
2:B:24:PHE:HD2	2:B:665:TRP:CZ2	2.17	0.62
2:B:624:PHE:O	2:B:729:HIS:HB3	2.00	0.62
2:B:986:GLU:HB2	3:C:34:ARG:HH21	1.64	0.62
3:C:17:VAL:HG12	3:C:17:VAL:O	1.98	0.62
1:M:43:MET:O	1:M:43:MET:CG	2.47	0.62
1:M:95:ILE:CG2	1:M:314:ILE:HD13	2.29	0.62
1:M:195:ARG:CG	1:M:196:GLY:CA	2.62	0.62
1:M:458:LYS:HE2	2:N:1130:HIS:HD2	1.63	0.62
1:M:1412:VAL:O	1:M:1413:GLU:C	2.35	0.62
1:M:1450:TYR:O	1:M:1451:LEU:CG	2.47	0.62
1:M:1450:TYR:HB3	7:S:60:GLY:O	1.99	0.62
2:N:222:VAL:HG12	2:N:223:ALA:N	2.15	0.62
2:N:349:HIS:O	2:N:350:ILE:HB	2.00	0.62
2:N:497:PRO:O	2:N:498:ARG:C	2.38	0.62
2:N:753:SER:CB	2:N:754:PRO:CD	2.77	0.62
3:O:17:VAL:O	3:O:17:VAL:HG12	1.98	0.62
3:O:130:LEU:CD2	3:O:132:HIS:HD2	2.07	0.62
9:U:59:SER:O	9:U:61:ASP:N	2.32	0.62
1:A:59:ARG:N	1:A:60:LEU:CA	2.62	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:148:MET:C	1:A:149:VAL:HG23	2.19	0.62
1:A:402:PRO:HA	1:A:441:HIS:HE1	1.64	0.62
1:A:691:GLU:HG2	1:A:691:GLU:O	1.99	0.62
1:A:803:ARG:O	1:A:804:GLY:C	2.37	0.62
1:A:1458:ASN:O	1:A:1459:TYR:O	2.18	0.62
2:B:229:LEU:CD1	2:B:231:ARG:NE	2.62	0.62
2:B:318:ASP:O	2:B:320:ILE:N	2.31	0.62
2:B:485:ASN:HB3	2:B:487:PRO:HD3	1.80	0.62
2:B:1148:ARG:HD2	2:B:1181:GLN:HE21	1.63	0.62
2:B:1170:CYS:SG	2:B:1179:PHE:HE1	2.22	0.62
2:B:1205:PHE:HE2	2:B:1210:LYS:O	1.82	0.62
2:B:1205:PHE:CD2	2:B:1210:LYS:HB2	2.35	0.62
3:C:42:THR:HG22	3:C:171:TRP:HB3	1.82	0.62
4:D:43:ARG:O	4:D:44:GLU:HB2	1.99	0.62
5:E:5:GLU:HB3	5:E:8:ILE:CD1	2.29	0.62
7:G:155:ALA:C	7:G:157:GLU:H	2.02	0.62
1:M:30:ARG:NE	1:M:244:VAL:HG21	2.14	0.62
1:M:51:ARG:HD2	1:M:57:ASP:OD1	1.99	0.62
1:M:115:LEU:H	1:M:115:LEU:CD1	2.11	0.62
1:M:357:THR:HG22	1:M:474:PHE:CD2	2.34	0.62
1:M:678:ASP:O	1:M:682:MET:HB2	2.00	0.62
1:M:1016:ASN:HA	1:M:1019:LEU:HB2	1.80	0.62
1:M:1149:VAL:O	1:M:1150:THR:C	2.38	0.62
1:M:1183:GLU:O	1:M:1184:VAL:C	2.38	0.62
2:N:24:PHE:HD2	2:N:665:TRP:CZ2	2.17	0.62
2:N:488:ILE:HB	2:N:490:ARG:N	2.13	0.62
2:N:685:VAL:HG12	2:N:728:THR:HG21	1.82	0.62
2:N:1205:PHE:HE2	2:N:1210:LYS:O	1.82	0.62
3:O:242:ASN:HA	3:O:244:ILE:N	2.13	0.62
4:P:22:GLU:OE2	7:S:4:PHE:HB3	1.98	0.62
7:S:63:VAL:HG11	7:S:66:GLN:HB2	1.80	0.62
9:U:37:ILE:HG22	9:U:38:ALA:N	2.14	0.62
1:A:458:LYS:HE2	2:B:1130:HIS:HD2	1.63	0.62
1:A:567:PRO:O	1:A:578:TRP:HZ3	1.80	0.62
1:A:852:GLU:HB3	1:A:1430:ILE:HD11	1.80	0.62
1:A:1485:PRO:C	1:A:1486:TYR:HD1	2.03	0.62
2:B:24:PHE:CZ	2:B:28:THR:HG21	2.34	0.62
2:B:713:ALA:O	2:B:714:GLN:HG2	1.99	0.62
2:B:1006:ILE:HB	2:B:1007:PRO:HD3	1.81	0.62
4:D:58:THR:C	4:D:62:PHE:CD2	2.73	0.62
5:E:100:LYS:C	5:E:101:THR:HG23	2.16	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:46:ILE:CG1	7:G:79:LEU:CD2	2.74	0.62
9:I:24:VAL:HG12	9:I:25:LEU:N	2.14	0.62
9:I:58:VAL:C	9:I:60:HIS:H	2.03	0.62
1:M:5:GLN:O	1:M:8:PRO:CG	2.47	0.62
1:M:775:ILE:C	1:M:775:ILE:HD12	2.18	0.62
1:M:889:PHE:HZ	1:M:1020:LEU:CD2	2.12	0.62
1:M:1255:ASP:O	1:M:1256:ASP:CB	2.32	0.62
1:M:1430:ILE:HD12	1:M:1431:SER:N	2.15	0.62
2:N:486:THR:HG21	2:N:521:LEU:CB	2.29	0.62
2:N:624:PHE:O	2:N:729:HIS:HB3	2.00	0.62
3:O:73:SER:HB2	3:O:239:ILE:CG2	2.29	0.62
4:P:98:CYS:HB3	4:P:99:GLU:CD	2.20	0.62
5:Q:5:GLU:HB3	5:Q:8:ILE:CD1	2.29	0.62
5:Q:198:GLU:CB	5:Q:199:THR:HA	2.10	0.62
7:S:146:LEU:HD12	7:S:164:MET:SD	2.39	0.62
10:V:49:ILE:HD12	10:V:50:LEU:H	1.64	0.62
1:A:192:SER:CB	1:A:202:LEU:CA	2.75	0.62
1:A:255:SER:O	1:A:256:ILE:CB	2.41	0.62
1:A:354:SER:OG	2:B:1117:LEU:HB2	2.00	0.62
1:A:781:ILE:HG21	1:A:803:ARG:CA	2.29	0.62
1:A:885:GLU:OE2	1:A:962:ASN:HB2	1.99	0.62
1:A:946:CYS:HA	1:A:949:ILE:HG12	1.81	0.62
1:A:1403:LEU:HD23	1:A:1432:GLU:HG3	1.77	0.62
1:A:1490:PRO:O	1:A:1492:VAL:N	2.32	0.62
2:B:301:LYS:HB2	2:B:302:PRO:HD3	1.82	0.62
2:B:629:ASN:HB3	2:B:630:PRO:C	2.20	0.62
2:B:686:MET:O	2:B:728:THR:HG22	1.98	0.62
5:E:23:HIS:N	5:E:24:ASP:HB2	2.15	0.62
1:M:64:ASP:O	1:M:67:PHE:HD1	1.82	0.62
1:M:275:ILE:CG1	1:M:305:HIS:HB3	2.30	0.62
1:M:558:TRP:CH2	11:W:61:LYS:HE2	2.33	0.62
1:M:672:ILE:O	1:M:675:THR:N	2.25	0.62
1:M:810:TYR:CD2	2:N:751:ASN:O	2.52	0.62
1:M:1094:SER:O	1:M:1095:LYS:CD	2.46	0.62
1:M:1180:PRO:O	1:M:1181:ASP:C	2.36	0.62
1:M:1363:GLU:O	1:M:1365:ASP:HA	2.00	0.62
2:N:102:GLN:HB3	2:N:105:ARG:CD	2.28	0.62
2:N:663:PHE:CG	2:N:663:PHE:O	2.51	0.62
2:N:1205:PHE:CD2	2:N:1210:LYS:HB2	2.35	0.62
4:P:58:THR:C	4:P:62:PHE:CD2	2.73	0.62
9:U:20:LYS:O	9:U:21:VAL:C	2.38	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:81:HIS:CG	9:U:82:GLU:H	2.18	0.62
1:A:180:PRO:CB	1:A:193:TRP:CD1	2.82	0.62
1:A:275:ILE:CG1	1:A:305:HIS:HB3	2.30	0.62
1:A:571:ILE:HG12	1:A:573:LYS:CE	2.20	0.62
1:A:1183:GLU:O	1:A:1184:VAL:C	2.38	0.62
1:A:1450:TYR:O	1:A:1451:LEU:CG	2.47	0.62
1:A:1451:LEU:HD21	7:G:62:VAL:HG21	1.79	0.62
2:B:222:VAL:HG12	2:B:223:ALA:N	2.15	0.62
2:B:300:MET:O	2:B:303:CYS:N	2.32	0.62
2:B:663:PHE:CG	2:B:663:PHE:O	2.51	0.62
2:B:778:MET:SD	2:B:778:MET:C	2.78	0.62
3:C:242:ASN:HA	3:C:244:ILE:N	2.13	0.62
4:D:24:MET:CE	4:D:88:PHE:CD1	2.83	0.62
4:D:117:ASP:O	4:D:118:GLN:C	2.38	0.62
9:I:112:GLU:O	9:I:113:GLN:C	2.37	0.62
1:M:524:LYS:HZ3	1:M:632:GLN:HB3	1.65	0.62
1:M:1276:SER:HB2	1:M:1277:ILE:CD1	2.29	0.62
1:M:1395:ILE:HD11	1:M:1397:ARG:CG	2.29	0.62
1:M:1505:PHE:C	1:M:1507:PRO:HD2	2.19	0.62
2:N:204:ALA:O	2:N:205:ALA:HB3	1.98	0.62
2:N:391:ARG:CG	2:N:618:ARG:NH2	2.62	0.62
3:O:253:GLN:NE2	11:W:98:GLU:HG3	2.11	0.62
4:P:24:MET:CE	4:P:88:PHE:CD1	2.83	0.62
5:Q:57:LEU:O	5:Q:58:SER:HB3	2.00	0.62
7:S:155:ALA:C	7:S:157:GLU:H	2.02	0.62
9:U:8:ILE:CG2	9:U:9:GLU:H	2.12	0.62
9:U:69:PRO:HG3	9:U:85:PHE:CE1	2.34	0.62
1:A:16:VAL:HG22	2:B:1182:VAL:HG21	1.80	0.62
1:A:852:GLU:OE1	1:A:1430:ILE:HD11	2.00	0.62
1:A:946:CYS:O	1:A:946:CYS:SG	2.58	0.62
1:A:1089:TYR:CD2	1:A:1089:TYR:C	2.73	0.62
2:B:663:PHE:HB2	2:B:667:ALA:HB3	1.82	0.62
2:B:899:ILE:HD12	2:B:899:ILE:C	2.19	0.62
5:E:57:LEU:O	5:E:58:SER:HB3	2.00	0.62
9:I:6:TYR:HA	9:I:12:ASN:O	2.00	0.62
1:M:33:SER:HB2	1:M:84:GLY:CA	2.20	0.62
1:M:120:SER:CB	1:M:121:ASN:CA	2.57	0.62
1:M:156:ALA:O	1:M:157:GLY:C	2.38	0.62
1:M:191:GLY:O	1:M:193:TRP:CZ3	2.53	0.62
1:M:338:LYS:CG	1:M:339:GLU:N	2.60	0.62
1:M:783:PHE:CE2	1:M:803:ARG:NH1	2.67	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1402:ALA:O	1:M:1403:LEU:C	2.38	0.62
1:M:1425:ASP:HB3	1:M:1432:GLU:OE1	1.99	0.62
2:N:1170:CYS:SG	2:N:1179:PHE:HE1	2.22	0.62
3:O:108:LYS:HA	3:O:153:GLU:HG2	1.80	0.62
9:U:6:TYR:O	9:U:14:LEU:HG	2.00	0.62
9:U:15:TYR:CE2	9:U:30:ARG:HB2	2.34	0.62
9:U:88:THR:OG1	9:U:89:HIS:N	2.30	0.62
9:U:112:GLU:O	9:U:113:GLN:C	2.37	0.62
1:A:126:ASP:HB3	1:A:130:TYR:CE2	2.34	0.62
1:A:383:PRO:O	1:A:384:GLU:CB	2.47	0.62
1:A:806:ILE:HD11	1:A:814:LEU:CD2	2.30	0.62
1:A:1166:ILE:HD12	1:A:1169:ASP:O	1.99	0.62
1:A:1282:VAL:O	1:A:1283:PRO:C	2.37	0.62
2:B:204:ALA:O	2:B:205:ALA:HB3	1.98	0.62
3:C:73:SER:HB2	3:C:239:ILE:CG2	2.29	0.62
9:I:8:ILE:CG2	9:I:9:GLU:H	2.12	0.62
1:M:97:PHE:CZ	2:N:1200:ILE:CG2	2.81	0.62
1:M:117:ILE:CG2	1:M:118:ASP:H	2.11	0.62
1:M:691:GLU:O	1:M:691:GLU:HG2	1.99	0.62
1:M:1071:ALA:HB1	1:M:1373:HIS:HB3	1.81	0.62
2:N:512:GLU:O	2:N:512:GLU:CG	2.48	0.62
2:N:562:ASN:ND2	2:N:608:LYS:HG2	2.09	0.62
2:N:778:MET:C	2:N:778:MET:SD	2.78	0.62
2:N:1055:SER:N	2:N:1056:ARG:HD3	2.15	0.62
3:O:127:ASN:O	3:O:128:SER:C	2.38	0.62
3:O:207:ASN:ND2	3:O:230:TYR:HB3	2.15	0.62
4:P:25:LEU:HD23	4:P:29:GLU:OE2	2.00	0.62
4:P:117:ASP:O	4:P:118:GLN:C	2.38	0.62
7:S:90:ALA:O	7:S:143:ASN:HB3	2.00	0.62
8:T:108:HIS:HA	8:T:111:LEU:HB2	1.80	0.62
1:A:9:SER:O	1:A:10:SER:C	2.38	0.62
1:A:156:ALA:O	1:A:157:GLY:C	2.38	0.62
1:A:678:ASP:O	1:A:682:MET:HB2	1.99	0.62
1:A:792:HIS:CB	1:A:817:GLN:HE21	2.13	0.62
1:A:807:GLU:OE1	2:B:716:VAL:HG11	2.00	0.62
1:A:1150:THR:CB	9:I:48:LEU:HD22	2.22	0.62
1:A:1363:GLU:O	1:A:1365:ASP:HA	1.99	0.62
1:A:1431:SER:HA	1:A:1434:ILE:CG1	2.29	0.62
1:A:1450:TYR:O	1:A:1451:LEU:HG	1.99	0.62
1:A:1480:GLU:CG	4:D:44:GLU:HG2	2.30	0.62
7:G:3:PHE:CE1	7:G:80:TRP:HD1	2.18	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:90:ALA:O	7:G:143:ASN:HB3	1.99	0.62
9:I:81:HIS:CG	9:I:82:GLU:H	2.18	0.62
1:M:77:ALA:HB2	2:N:1105:ARG:HH22	1.65	0.62
1:M:126:ASP:HB3	1:M:130:TYR:CE2	2.35	0.62
1:M:345:ASN:O	1:M:349:LYS:CE	2.47	0.62
1:M:812:ARG:NH1	2:N:716:VAL:HG23	2.14	0.62
1:M:946:CYS:HA	1:M:949:ILE:HG12	1.81	0.62
1:M:1089:TYR:CD2	1:M:1089:TYR:C	2.74	0.62
1:M:1181:ASP:HA	1:M:1184:VAL:HG23	1.81	0.62
1:M:1456:LEU:O	7:S:21:PRO:HB3	2.00	0.62
2:N:87:PRO:HA	2:N:113:SER:HB3	1.81	0.62
2:N:530:TYR:HB3	2:N:620:CYS:HB2	1.82	0.62
4:P:68:PHE:HB3	4:P:73:ALA:HB3	1.80	0.62
7:S:54:THR:HB	7:S:76:ARG:HD2	1.82	0.62
1:A:123:LYS:HG3	1:A:124:PHE:N	2.15	0.61
1:A:148:MET:CE	1:A:181:THR:OG1	2.48	0.61
1:A:154:LEU:N	1:A:173:GLY:CA	2.63	0.61
1:A:254:PRO:HB3	2:B:1103:LEU:CD2	2.26	0.61
1:A:341:ARG:O	1:A:343:ARG:N	2.33	0.61
1:A:1123:LEU:HB3	1:A:1127:ILE:O	2.00	0.61
1:A:1282:VAL:CG1	1:A:1285:ILE:CG1	2.78	0.61
2:B:398:LEU:O	2:B:402:LEU:HG	1.99	0.61
2:B:552:LEU:HD23	2:B:553:GLU:HG3	1.81	0.61
3:C:79:PRO:HB3	3:C:80:PRO:HA	1.82	0.61
7:G:46:ILE:CA	7:G:79:LEU:HD23	2.03	0.61
8:H:72:ALA:CB	8:H:123:LEU:O	2.44	0.61
8:H:108:HIS:HA	8:H:111:LEU:HB2	1.80	0.61
1:M:84:GLY:O	1:M:247:VAL:HG23	1.99	0.61
1:M:188:ARG:NH2	1:M:303:GLN:OE1	2.33	0.61
1:M:208:LEU:HD13	1:M:209:SER:N	2.10	0.61
1:M:946:CYS:O	1:M:946:CYS:SG	2.58	0.61
1:M:1123:LEU:HB3	1:M:1127:ILE:O	2.00	0.61
1:M:1437:GLY:HA2	2:N:1141:PHE:CD2	2.35	0.61
2:N:654:ARG:CA	2:N:655:TYR:O	2.44	0.61
7:S:114:HIS:CD2	7:S:115:LEU:HD23	2.35	0.61
9:U:87:GLN:NE2	9:U:97:MET:CE	2.62	0.61
1:A:154:LEU:HA	1:A:173:GLY:CA	2.28	0.61
1:A:689:VAL:HG11	1:A:807:GLU:HG2	1.82	0.61
1:A:895:SER:HB3	1:A:898:GLN:HG2	1.82	0.61
1:A:1165:VAL:O	1:A:1166:ILE:HD13	1.99	0.61
1:A:1402:ALA:O	1:A:1403:LEU:C	2.38	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1430:ILE:HD12	1:A:1431:SER:N	2.15	0.61
1:A:1489:SER:CB	1:A:1490:PRO:CD	2.40	0.61
2:B:87:PRO:HA	2:B:113:SER:HB3	1.81	0.61
7:G:32:LEU:HD22	7:G:36:GLU:OE2	2.00	0.61
9:I:87:GLN:NE2	9:I:97:MET:CE	2.62	0.61
9:I:88:THR:OG1	9:I:89:HIS:N	2.30	0.61
1:M:36:LYS:O	1:M:37:ILE:CB	2.47	0.61
1:M:59:ARG:N	1:M:60:LEU:CA	2.62	0.61
1:M:90:LYS:O	1:M:91:PRO:C	2.37	0.61
1:M:123:LYS:HG3	1:M:124:PHE:H	1.64	0.61
1:M:123:LYS:HG3	1:M:124:PHE:N	2.15	0.61
1:M:178:ALA:CA	1:M:180:PRO:HD2	2.30	0.61
1:M:457:HIS:HA	1:M:1077:GLU:OE2	2.00	0.61
1:M:1165:VAL:O	1:M:1166:ILE:HD13	1.99	0.61
2:N:301:LYS:HB2	2:N:302:PRO:HD3	1.82	0.61
2:N:663:PHE:HB2	2:N:667:ALA:HB3	1.82	0.61
4:P:27:VAL:CG2	4:P:95:THR:CG2	2.61	0.61
7:S:138:ILE:CG1	7:S:171:VAL:CG2	2.78	0.61
9:U:99:LEU:HD23	9:U:100:ILE:N	2.13	0.61
1:A:873:ALA:HB3	1:A:876:GLU:H	1.65	0.61
1:A:947:LYS:HB2	1:A:948:PHE:HA	1.82	0.61
1:A:1357:GLU:O	1:A:1361:VAL:HG23	2.01	0.61
1:A:1425:ASP:HB3	1:A:1432:GLU:OE1	1.99	0.61
2:B:292:ASN:OD1	2:B:297:LEU:CD1	2.48	0.61
2:B:752:GLN:O	2:B:753:SER:CB	2.46	0.61
4:D:129:THR:O	4:D:133:PHE:CB	2.45	0.61
7:G:54:THR:HB	7:G:76:ARG:HD2	1.82	0.61
7:G:95:VAL:CG1	7:G:131:TYR:CD2	2.83	0.61
1:M:95:ILE:HG21	1:M:314:ILE:CG1	2.31	0.61
1:M:110:TRP:HZ2	1:M:193:TRP:CD1	2.17	0.61
1:M:166:PRO:HB2	1:M:168:ALA:HB2	1.78	0.61
1:M:1290:MET:CE	1:M:1312:LEU:HD23	2.29	0.61
1:M:1357:GLU:O	1:M:1361:VAL:HG23	2.00	0.61
2:N:273:ARG:NH1	2:N:310:ILE:CG1	2.64	0.61
3:O:168:HIS:CD2	3:O:170:LYS:CB	2.82	0.61
7:S:3:PHE:CZ	7:S:80:TRP:CD1	2.89	0.61
1:A:40:PRO:CA	1:A:276:ILE:CG2	2.77	0.61
1:A:59:ARG:H	1:A:60:LEU:CA	2.10	0.61
1:A:342:LEU:HD23	1:A:1411:THR:OG1	2.00	0.61
1:A:1487:GLU:OE2	4:D:43:ARG:HG3	2.00	0.61
2:B:56:LEU:HD22	2:B:77:ILE:HD12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:685:VAL:HG12	2:B:728:THR:HG21	1.82	0.61
7:G:91:ILE:CG1	7:G:143:ASN:OD1	2.45	0.61
7:G:115:LEU:CD1	7:G:163:THR:HG22	2.30	0.61
1:M:168:ALA:O	1:M:169:ASN:HB3	1.99	0.61
1:M:256:ILE:O	1:M:263:ARG:HG2	2.01	0.61
1:M:321:LEU:HD22	1:M:325:GLY:HA2	1.81	0.61
1:M:640:TRP:O	1:M:644:GLY:CA	2.46	0.61
1:M:947:LYS:HB2	1:M:948:PHE:HA	1.82	0.61
1:M:1160:ASP:OD1	9:U:23:ARG:CD	2.47	0.61
2:N:426:ARG:O	2:N:428:PHE:N	2.31	0.61
2:N:700:MET:C	2:N:702:ALA:H	2.03	0.61
7:S:155:ALA:O	7:S:157:GLU:N	2.30	0.61
9:U:58:VAL:C	9:U:60:HIS:H	2.03	0.61
9:U:87:GLN:HE22	9:U:97:MET:HE3	1.65	0.61
11:W:52:ASP:O	11:W:55:VAL:HG23	1.99	0.61
1:A:107:CYS:O	1:A:108:VAL:HG23	1.99	0.61
1:A:115:LEU:HD21	1:A:227:HIS:CG	2.35	0.61
1:A:388:PRO:HA	1:A:434:TYR:CZ	2.35	0.61
1:A:806:ILE:HD11	1:A:814:LEU:HD21	1.82	0.61
1:A:816:PRO:C	1:A:818:GLU:H	2.03	0.61
1:A:1149:VAL:O	1:A:1150:THR:C	2.38	0.61
1:A:1167:GLU:C	1:A:1168:GLU:HG3	2.11	0.61
1:A:1192:SER:CA	1:A:1245:ILE:O	2.43	0.61
1:A:1405:ARG:HA	1:A:1408:PHE:CD1	2.35	0.61
2:B:180:CYS:O	2:B:182:TYR:N	2.33	0.61
2:B:328:GLY:O	2:B:329:VAL:CG1	2.48	0.61
2:B:540:ILE:HG13	2:B:541:ILE:N	2.16	0.61
2:B:1055:SER:N	2:B:1056:ARG:HD3	2.15	0.61
7:G:14:LEU:CD2	7:G:27:LEU:HD21	2.29	0.61
9:I:6:TYR:O	9:I:14:LEU:HD11	1.99	0.61
9:I:105:HIS:O	9:I:106:CYS:SG	2.57	0.61
1:M:64:ASP:CA	1:M:67:PHE:CE1	2.83	0.61
1:M:169:ASN:O	1:M:170:MET:CG	2.48	0.61
1:M:204:GLU:HG2	1:M:205:LYS:N	2.14	0.61
1:M:465:ARG:O	1:M:466:ILE:O	2.18	0.61
1:M:778:GLY:CA	1:M:1091:GLY:O	2.48	0.61
1:M:879:LEU:HD13	1:M:960:PRO:HG3	1.78	0.61
1:M:886:TYR:HE2	1:M:956:ARG:HD2	1.66	0.61
2:N:562:ASN:HA	2:N:563:ALA:O	2.01	0.61
2:N:1006:ILE:HB	2:N:1007:PRO:HD3	1.81	0.61
4:P:7:GLU:HG3	4:P:15:LEU:CD2	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:30:VAL:H	8:T:37:ASN:HA	1.66	0.61
1:A:84:GLY:O	1:A:247:VAL:HG23	2.00	0.61
1:A:388:PRO:CA	1:A:434:TYR:CE2	2.82	0.61
1:A:507:ILE:CA	1:A:511:THR:HG23	2.22	0.61
1:A:1064:GLY:C	1:A:1443:GLY:HA2	2.21	0.61
2:B:290:ASP:HB2	2:B:292:ASN:HD22	1.57	0.61
2:B:512:GLU:O	2:B:512:GLU:CG	2.48	0.61
2:B:681:GLU:O	2:B:685:VAL:HG23	2.00	0.61
2:B:867:VAL:O	2:B:871:THR:HG23	1.99	0.61
2:B:1185:PRO:C	2:B:1187:ALA:N	2.52	0.61
7:G:114:HIS:HD2	7:G:115:LEU:N	1.99	0.61
1:M:72:CYS:CB	2:N:1161:ALA:O	2.44	0.61
1:M:143:VAL:O	1:M:147:LYS:HB3	2.01	0.61
1:M:1152:ALA:HB1	9:U:46:HIS:HB3	1.82	0.61
1:M:1433:ASN:HD22	1:M:1441:PRO:HD3	1.63	0.61
2:N:713:ALA:O	2:N:714:GLN:HG2	1.99	0.61
3:O:42:THR:HG22	3:O:171:TRP:HB3	1.82	0.61
3:O:173:PRO:HB3	3:O:238:SER:OG	2.01	0.61
5:Q:118:ILE:C	5:Q:120:THR:H	2.04	0.61
9:U:105:HIS:O	9:U:106:CYS:SG	2.57	0.61
10:V:42:ARG:HH11	10:V:42:ARG:CG	2.11	0.61
1:A:40:PRO:CA	1:A:276:ILE:HG21	2.30	0.61
1:A:77:ALA:CB	2:B:1105:ARG:HH22	2.11	0.61
1:A:123:LYS:HG3	1:A:124:PHE:H	1.64	0.61
6:F:87:ARG:HG2	6:F:91:ILE:HD11	1.83	0.61
9:I:99:LEU:HD23	9:I:100:ILE:O	2.00	0.61
1:M:51:ARG:HD2	1:M:57:ASP:CG	2.20	0.61
1:M:895:SER:HB3	1:M:898:GLN:HG2	1.82	0.61
1:M:1150:THR:O	1:M:1151:SER:HB3	2.00	0.61
2:N:1153:ASP:HB3	2:N:1209:HIS:O	2.00	0.61
4:P:43:ARG:O	4:P:44:GLU:HB2	2.00	0.61
7:S:32:LEU:HD22	7:S:36:GLU:OE2	2.00	0.61
1:A:213:VAL:CG1	1:A:217:PHE:CZ	2.83	0.61
1:A:311:ASP:HB2	1:A:314:ILE:HD11	1.81	0.61
1:A:465:ARG:O	1:A:466:ILE:O	2.18	0.61
1:A:484:TYR:O	1:A:485:ASN:C	2.39	0.61
1:A:1496:PHE:CD2	4:D:29:GLU:HG2	2.35	0.61
2:B:273:ARG:CZ	2:B:310:ILE:CD1	2.78	0.61
2:B:331:ARG:O	2:B:334:ARG:N	2.34	0.61
2:B:379:ARG:CZ	2:B:607:GLU:HG2	2.31	0.61
3:C:127:ASN:O	3:C:128:SER:C	2.38	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:17:THR:HG21	5:E:136:ILE:HA	1.83	0.61
5:E:91:VAL:HA	5:E:94:LEU:HD12	1.82	0.61
7:G:3:PHE:CZ	7:G:80:TRP:CD1	2.89	0.61
8:H:30:VAL:H	8:H:37:ASN:HA	1.66	0.61
10:J:49:ILE:HD12	10:J:50:LEU:H	1.65	0.61
1:M:9:SER:O	1:M:10:SER:C	2.38	0.61
1:M:40:PRO:CA	1:M:276:ILE:HG21	2.30	0.61
1:M:86:ILE:CG2	1:M:245:LEU:HB3	2.31	0.61
1:M:342:LEU:HD23	1:M:1411:THR:OG1	2.00	0.61
1:M:1405:ARG:HA	1:M:1408:PHE:CD1	2.35	0.61
2:N:180:CYS:O	2:N:182:TYR:N	2.33	0.61
2:N:359:ARG:HD3	2:N:573:LEU:HD23	1.83	0.61
2:N:402:LEU:HD13	2:N:452:TRP:CZ3	2.35	0.61
2:N:1058:PHE:HE1	3:O:193:TRP:CD1	2.17	0.61
2:N:1189:LYS:HE2	2:N:1193:GLN:NE2	2.16	0.61
2:N:1205:PHE:HE2	2:N:1210:LYS:CB	2.10	0.61
5:Q:22:VAL:O	5:Q:25:ARG:HB2	2.01	0.61
7:S:3:PHE:CE1	7:S:80:TRP:HD1	2.18	0.61
7:S:114:HIS:HD2	7:S:115:LEU:N	1.99	0.61
1:A:25:SER:HB3	1:A:239:TRP:NE1	2.11	0.61
1:A:64:ASP:CA	1:A:67:PHE:CE1	2.83	0.61
1:A:120:SER:N	1:A:122:PRO:CA	2.64	0.61
1:A:311:ASP:CB	1:A:314:ILE:CG1	2.78	0.61
1:A:357:THR:HG23	1:A:358:VAL:N	2.15	0.61
1:A:388:PRO:CB	1:A:434:TYR:HE2	2.14	0.61
1:A:870:ILE:HD12	1:A:870:ILE:C	2.21	0.61
1:A:1290:MET:HE1	1:A:1312:LEU:CG	2.30	0.61
2:B:839:LEU:HB3	2:B:840:PHE:HD1	1.64	0.61
2:B:947:GLN:N	2:B:948:GLU:HB2	2.16	0.61
3:C:173:PRO:HB3	3:C:238:SER:OG	2.01	0.61
4:D:7:GLU:HG3	4:D:15:LEU:CD2	2.30	0.61
1:M:97:PHE:HZ	2:N:1200:ILE:HG21	1.65	0.61
1:M:151:ASP:CG	1:M:152:THR:H	2.05	0.61
1:M:641:LYS:HE3	1:M:885:GLU:OE1	2.01	0.61
1:M:1091:GLY:N	1:M:1092:VAL:HG12	2.16	0.61
5:Q:159:LEU:HD23	5:Q:162:ARG:HD3	1.83	0.61
6:R:87:ARG:HG2	6:R:91:ILE:HD11	1.83	0.61
11:W:69:ASN:O	11:W:70:PHE:HB3	2.00	0.61
1:A:159:ASP:OD1	1:A:159:ASP:N	2.34	0.61
1:A:169:ASN:O	1:A:170:MET:CG	2.48	0.61
1:A:242:ILE:HD13	1:A:245:LEU:HD13	1.78	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:349:LYS:HZ1	2:B:1187:ALA:HB3	1.64	0.61
1:A:458:LYS:HE2	2:B:1130:HIS:CD2	2.36	0.61
1:A:808:ASN:CB	1:A:813:GLY:O	2.47	0.61
1:A:889:PHE:HZ	1:A:1020:LEU:CD2	2.12	0.61
2:B:190:ILE:HG21	2:B:447:LEU:HD13	1.83	0.61
2:B:273:ARG:NH1	2:B:310:ILE:CG1	2.64	0.61
2:B:1176:ARG:C	2:B:1179:PHE:HE2	2.05	0.61
4:D:98:CYS:HB3	4:D:99:GLU:CD	2.20	0.61
5:E:118:ILE:C	5:E:120:THR:H	2.04	0.61
9:I:20:LYS:O	9:I:21:VAL:C	2.39	0.61
9:I:87:GLN:HE22	9:I:97:MET:HE3	1.65	0.61
1:M:90:LYS:HZ2	1:M:282:VAL:CG1	2.14	0.61
1:M:159:ASP:N	1:M:159:ASP:OD1	2.34	0.61
1:M:341:ARG:O	1:M:343:ARG:N	2.34	0.61
1:M:1403:LEU:HB3	1:M:1432:GLU:HG3	1.82	0.61
1:M:1450:TYR:CE2	6:R:125:ARG:CG	2.84	0.61
2:N:394:LEU:HD11	2:N:531:VAL:HB	1.82	0.61
2:N:839:LEU:HB3	2:N:840:PHE:HD1	1.65	0.61
2:N:888:ILE:HD13	2:N:900:ILE:HG22	1.83	0.61
3:O:134:ILE:HG21	3:O:237:GLY:O	2.01	0.61
4:P:25:LEU:HD12	7:S:5:LEU:CB	2.26	0.61
5:Q:58:SER:HB3	5:Q:75:GLU:HA	1.83	0.61
7:S:95:VAL:CG1	7:S:131:TYR:CD2	2.83	0.61
1:A:82:HIS:N	1:A:249:PRO:HB3	2.16	0.60
1:A:107:CYS:O	1:A:108:VAL:CG2	2.49	0.60
1:A:110:TRP:CZ2	1:A:180:PRO:HG2	2.36	0.60
1:A:886:TYR:HE2	1:A:956:ARG:HD2	1.65	0.60
1:A:905:ILE:N	1:A:905:ILE:CD1	2.64	0.60
1:A:1071:ALA:HB1	1:A:1373:HIS:HB3	1.81	0.60
1:A:1157:TYR:HE1	1:A:1194:TRP:CZ3	2.19	0.60
1:A:1290:MET:HE1	1:A:1312:LEU:HD21	1.63	0.60
2:B:386:HIS:HD2	2:B:388:GLY:CA	2.06	0.60
2:B:767:MET:SD	2:B:1083:ARG:HD2	2.41	0.60
2:B:817:LEU:HD23	2:B:818:CYS:N	2.16	0.60
2:B:1189:LYS:HE2	2:B:1193:GLN:NE2	2.16	0.60
3:C:207:ASN:ND2	3:C:230:TYR:HB3	2.15	0.60
5:E:47:GLY:O	5:E:48:MET:C	2.40	0.60
7:G:93:THR:HG23	7:G:94:THR:N	2.16	0.60
7:G:146:LEU:HD12	7:G:164:MET:SD	2.39	0.60
10:J:27:GLU:O	10:J:28:ASP:HB2	2.01	0.60
1:M:117:ILE:HD11	1:M:143:VAL:CG2	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:338:LYS:HG2	1:M:339:GLU:N	2.16	0.60
1:M:342:LEU:HD11	1:M:1409:GLU:CG	2.29	0.60
1:M:789:THR:OG1	1:M:821:PHE:CE2	2.54	0.60
1:M:1126:TRP:HA	1:M:1128:ALA:HA	1.83	0.60
1:M:1157:TYR:HE1	1:M:1194:TRP:CZ3	2.19	0.60
1:M:1406:CYS:HB3	1:M:1411:THR:HG22	1.82	0.60
2:N:817:LEU:HD23	2:N:818:CYS:N	2.16	0.60
4:P:55:MET:O	4:P:59:VAL:HG23	2.01	0.60
4:P:96:LEU:C	4:P:97:CYS:HG	1.98	0.60
5:Q:27:TYR:HD2	5:Q:63:PRO:HG3	1.57	0.60
5:Q:101:THR:HG22	5:Q:126:THR:N	2.15	0.60
9:U:25:LEU:HB2	9:U:38:ALA:HB3	1.81	0.60
1:A:177:ALA:HB1	1:A:179:GLN:HG3	1.80	0.60
1:A:267:ASP:HB3	1:A:268:LEU:CB	2.19	0.60
1:A:395:GLN:HG3	1:A:432:LEU:CD1	2.29	0.60
1:A:558:TRP:O	1:A:559:VAL:CG1	2.40	0.60
1:A:641:LYS:HE3	1:A:885:GLU:OE1	2.01	0.60
1:A:661:TYR:HE1	11:K:61:LYS:HD3	1.67	0.60
1:A:812:ARG:N	1:A:813:GLY:HA2	2.16	0.60
2:B:349:HIS:O	2:B:350:ILE:HB	2.00	0.60
2:B:700:MET:C	2:B:702:ALA:H	2.03	0.60
3:C:134:ILE:HG21	3:C:237:GLY:O	2.01	0.60
4:D:25:LEU:HD12	7:G:5:LEU:CB	2.26	0.60
7:G:138:ILE:HD11	7:G:171:VAL:CG2	2.31	0.60
11:K:69:ASN:O	11:K:70:PHE:HB3	2.00	0.60
1:M:25:SER:CB	1:M:239:TRP:CE2	2.84	0.60
1:M:664:LEU:HD23	1:M:665:HIS:HE1	1.66	0.60
1:M:1020:LEU:HB2	5:Q:201:GLY:N	2.16	0.60
1:M:1293:HIS:HD2	1:M:1311:VAL:HB	1.66	0.60
1:M:1404:MET:SD	1:M:1432:GLU:HB2	2.41	0.60
2:N:759:GLN:NE2	2:N:1082:GLN:OE1	2.34	0.60
2:N:972:ARG:NH1	2:N:1080:TYR:HE1	1.99	0.60
11:W:76:THR:HA	11:W:77:VAL:CB	2.20	0.60
1:A:338:LYS:HG2	1:A:339:GLU:N	2.16	0.60
1:A:558:TRP:CH2	11:K:61:LYS:HE2	2.33	0.60
1:A:672:ILE:HG12	2:B:1015:LEU:HB3	1.83	0.60
2:B:562:ASN:HA	2:B:563:ALA:O	2.01	0.60
2:B:601:ILE:HA	2:B:612:LEU:HD23	1.83	0.60
3:C:187:LEU:HD11	3:C:224:GLU:O	2.01	0.60
4:D:36:THR:O	4:D:40:GLN:HG3	2.01	0.60
11:K:46:ALA:C	11:K:48:GLN:H	2.04	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:106:GLU:HB2	1:M:144:CYS:CB	2.26	0.60
1:M:178:ALA:C	1:M:179:GLN:HG3	2.22	0.60
1:M:592:ILE:O	1:M:592:ILE:HG12	2.01	0.60
1:M:629:GLY:O	1:M:631:SER:N	2.30	0.60
1:M:1458:ASN:O	1:M:1459:TYR:O	2.18	0.60
2:N:56:LEU:HD22	2:N:77:ILE:HD12	1.83	0.60
2:N:273:ARG:CZ	2:N:310:ILE:CD1	2.78	0.60
2:N:681:GLU:O	2:N:685:VAL:HG23	2.00	0.60
2:N:1103:LEU:O	2:N:1190:LEU:HD11	2.02	0.60
3:O:84:LEU:O	3:O:84:LEU:CD2	2.34	0.60
7:S:115:LEU:CD1	7:S:163:THR:HG22	2.31	0.60
9:U:99:LEU:HD23	9:U:100:ILE:O	2.00	0.60
9:U:101:TYR:HB2	9:U:110:PHE:CE1	2.36	0.60
1:A:94:HIS:CA	1:A:98:LEU:HG	2.31	0.60
1:A:165:ASN:HB3	1:A:166:PRO:HA	0.69	0.60
1:A:368:ASP:CG	1:A:649:LYS:CE	2.62	0.60
1:A:1363:GLU:HA	1:A:1367:SER:HB2	1.83	0.60
2:B:399:LEU:HA	2:B:402:LEU:HD12	1.84	0.60
3:C:58:PRO:HD2	3:C:61:PHE:HB2	1.82	0.60
10:J:7:CYS:HB2	10:J:45:CYS:HB3	1.60	0.60
1:M:153:GLY:CA	1:M:174:GLY:CA	2.61	0.60
1:M:178:ALA:O	1:M:179:GLN:CB	2.49	0.60
1:M:217:PHE:HA	1:M:220:ILE:HG13	1.84	0.60
1:M:382:TYR:H	1:M:383:PRO:HD3	1.67	0.60
1:M:405:HIS:CG	1:M:406:PRO:HD3	2.35	0.60
1:M:445:GLY:HA2	1:M:446:ASP:C	2.22	0.60
1:M:514:PRO:O	1:M:517:ILE:HG12	2.01	0.60
1:M:661:TYR:HE1	11:W:61:LYS:HD3	1.67	0.60
2:N:216:PRO:CD	2:N:217:SER:HA	2.32	0.60
2:N:778:MET:SD	2:N:954:LYS:HD3	2.42	0.60
2:N:856:GLY:HA2	2:N:857:MET:HB2	1.83	0.60
4:P:129:THR:O	4:P:133:PHE:CB	2.45	0.60
6:R:120:ILE:HG23	6:R:138:VAL:HG11	1.84	0.60
1:A:178:ALA:O	1:A:179:GLN:NE2	2.34	0.60
1:A:217:PHE:HA	1:A:220:ILE:HG13	1.82	0.60
1:A:405:HIS:CG	1:A:406:PRO:HD3	2.35	0.60
1:A:541:SER:OG	1:A:622:VAL:HG13	2.01	0.60
1:A:945:LEU:O	1:A:945:LEU:HD23	2.01	0.60
1:A:1192:SER:N	1:A:1193:PRO:CD	2.57	0.60
1:A:1403:LEU:HB3	1:A:1432:GLU:HG3	1.82	0.60
1:A:1496:PHE:CD1	4:D:29:GLU:CG	2.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:871:THR:O	2:B:872:LEU:HG	2.01	0.60
2:B:1112:SER:O	2:B:1113:ARG:HB3	2.02	0.60
3:C:33:ARG:HH21	3:C:179:PHE:HB2	1.65	0.60
4:D:25:LEU:HD23	4:D:29:GLU:OE2	2.00	0.60
4:D:55:MET:O	4:D:59:VAL:HG23	2.02	0.60
5:E:116:LYS:C	5:E:118:ILE:H	2.04	0.60
7:G:14:LEU:CD1	7:G:30:LYS:NZ	2.64	0.60
1:M:71:THR:HG23	2:N:1160:ILE:HG22	1.79	0.60
1:M:357:THR:HG23	1:M:358:VAL:N	2.15	0.60
1:M:484:TYR:O	1:M:485:ASN:C	2.39	0.60
1:M:873:ALA:HB3	1:M:876:GLU:H	1.65	0.60
1:M:1119:LEU:HD11	1:M:1121:ILE:HG13	1.83	0.60
1:M:1407:SER:O	1:M:1409:GLU:HG3	2.01	0.60
2:N:1148:ARG:HD3	2:N:1181:GLN:NE2	2.16	0.60
3:O:33:ARG:HH21	3:O:179:PHE:HB2	1.65	0.60
4:P:58:THR:HB	4:P:62:PHE:HE2	0.76	0.60
5:Q:91:VAL:HA	5:Q:94:LEU:HD12	1.82	0.60
9:U:5:GLN:O	9:U:14:LEU:HB2	2.00	0.60
1:A:108:VAL:O	1:A:109:CYS:SG	2.59	0.60
1:A:317:GLN:N	1:A:318:PRO:CD	2.65	0.60
1:A:1020:LEU:HB2	5:E:201:GLY:N	2.16	0.60
1:A:1127:ILE:HB	1:A:1128:ALA:HB2	1.83	0.60
1:A:1150:THR:O	1:A:1151:SER:HB3	2.00	0.60
1:A:1328:VAL:H	1:A:1329:ASP:CA	2.15	0.60
1:A:1489:SER:OG	4:D:40:GLN:NE2	2.34	0.60
2:B:42:VAL:N	2:B:43:GLN:C	2.55	0.60
2:B:317:LEU:CB	2:B:335:LEU:HD23	2.32	0.60
2:B:530:TYR:HB3	2:B:620:CYS:HB2	1.82	0.60
2:B:753:SER:CB	2:B:754:PRO:CD	2.76	0.60
2:B:778:MET:SD	2:B:954:LYS:HD3	2.41	0.60
5:E:58:SER:HB3	5:E:75:GLU:HA	1.83	0.60
7:G:114:HIS:CD2	7:G:115:LEU:HD23	2.35	0.60
9:I:87:GLN:NE2	9:I:97:MET:HE2	2.17	0.60
11:K:52:ASP:HB3	11:K:54:ARG:HG3	1.84	0.60
1:M:146:THR:O	1:M:148:MET:HG2	2.02	0.60
1:M:187:LEU:C	1:M:188:ARG:HG2	2.21	0.60
1:M:317:GLN:N	1:M:318:PRO:CD	2.65	0.60
1:M:374:ARG:CB	1:M:374:ARG:NH1	2.55	0.60
1:M:380:LEU:CD1	1:M:442:ILE:HD13	2.25	0.60
1:M:490:GLY:HA3	2:N:968:LYS:HE2	1.84	0.60
1:M:635:LEU:O	1:M:635:LEU:HD23	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1114:ILE:HG12	1:M:1114:ILE:O	2.00	0.60
1:M:1173:VAL:O	1:M:1177:PHE:HD2	1.83	0.60
2:N:540:ILE:HG13	2:N:541:ILE:N	2.16	0.60
2:N:685:VAL:HG12	2:N:686:MET:H	1.67	0.60
2:N:1185:PRO:O	2:N:1188:ALA:N	2.35	0.60
3:O:79:PRO:HB3	3:O:80:PRO:HA	1.82	0.60
4:P:71:ALA:O	4:P:75:TYR:HD2	1.84	0.60
5:Q:17:THR:HG21	5:Q:136:ILE:HA	1.83	0.60
1:A:37:ILE:HD12	1:A:85:HIS:O	2.01	0.60
1:A:166:PRO:CB	1:A:168:ALA:CB	2.78	0.60
1:A:638:THR:HG23	1:A:965:ARG:CZ	2.31	0.60
1:A:1404:MET:SD	1:A:1432:GLU:HB2	2.41	0.60
2:B:438:ILE:HG12	2:B:439:ILE:N	2.16	0.60
2:B:960:THR:HB	3:C:60:GLU:OE1	2.02	0.60
2:B:1061:MET:HG3	2:B:1074:VAL:HB	1.83	0.60
9:I:73:LYS:O	9:I:74:GLU:CB	2.48	0.60
1:M:1191:GLN:O	1:M:1192:SER:HB3	2.01	0.60
2:N:190:ILE:HG21	2:N:447:LEU:HD13	1.83	0.60
2:N:243:LEU:C	2:N:244:MET:CG	2.70	0.60
2:N:290:ASP:HB2	2:N:292:ASN:HD22	1.57	0.60
2:N:767:MET:SD	2:N:1083:ARG:HD2	2.41	0.60
2:N:1026:LEU:CB	2:N:1051:HIS:HD2	2.06	0.60
2:N:1061:MET:HG3	2:N:1074:VAL:HB	1.84	0.60
5:Q:116:LYS:C	5:Q:118:ILE:H	2.04	0.60
6:R:106:ASP:O	6:R:108:LEU:N	2.35	0.60
7:S:93:THR:HG23	7:S:94:THR:N	2.16	0.60
9:U:50:SER:O	9:U:51:SER:CB	2.50	0.60
1:A:147:LYS:C	1:A:148:MET:HG3	2.11	0.60
1:A:256:ILE:O	1:A:263:ARG:HG2	2.01	0.60
1:A:604:SER:OG	1:A:605:ASN:N	2.35	0.60
1:A:664:LEU:HD23	1:A:665:HIS:HE1	1.66	0.60
1:A:968:GLN:HG3	1:A:968:GLN:O	2.02	0.60
1:A:1114:ILE:O	1:A:1114:ILE:HG12	2.00	0.60
1:A:1150:THR:O	1:A:1151:SER:OG	2.17	0.60
1:A:1395:ILE:O	1:A:1397:ARG:N	2.33	0.60
1:A:1406:CYS:HB3	1:A:1411:THR:CG2	2.32	0.60
2:B:1153:ASP:HB3	2:B:1209:HIS:O	2.00	0.60
7:G:112:SER:OG	7:G:115:LEU:HG	2.02	0.60
7:G:147:LYS:CG	7:G:169:LEU:HD11	2.32	0.60
9:I:101:TYR:HB2	9:I:110:PHE:CE1	2.36	0.60
1:M:672:ILE:HG12	2:N:1015:LEU:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:870:ILE:HD12	1:M:870:ILE:C	2.22	0.60
7:S:140:LYS:O	7:S:140:LYS:HG2	2.02	0.60
8:T:6:LEU:HB2	8:T:59:ILE:CD1	2.32	0.60
8:T:60:THR:CG2	8:T:61:SER:N	2.53	0.60
12:X:21:ILE:HG23	12:X:30:ARG:HG3	1.84	0.60
1:A:43:MET:O	1:A:43:MET:CG	2.47	0.60
1:A:117:ILE:HD11	1:A:143:VAL:CG2	2.31	0.60
1:A:262:SER:O	1:A:263:ARG:HB2	2.02	0.60
1:A:268:LEU:HD22	1:A:329:LYS:CB	2.32	0.60
1:A:740:GLU:CG	1:A:764:ILE:HD12	2.31	0.60
1:A:778:GLY:HA3	1:A:1091:GLY:C	2.22	0.60
1:A:810:TYR:C	2:B:750:HIS:HD2	2.04	0.60
1:A:846:ARG:HG2	1:A:1390:ILE:HG22	1.83	0.60
1:A:993:LEU:O	1:A:996:LEU:N	2.32	0.60
1:A:1140:GLN:C	1:A:1280:ARG:HB3	2.22	0.60
1:A:1183:GLU:O	1:A:1186:GLU:N	2.35	0.60
1:A:1293:HIS:CD2	1:A:1311:VAL:HB	2.36	0.60
1:A:1406:CYS:HB3	1:A:1411:THR:HG22	1.82	0.60
2:B:216:PRO:CD	2:B:217:SER:HA	2.32	0.60
2:B:307:ALA:O	2:B:310:ILE:CG1	2.49	0.60
2:B:435:LYS:O	2:B:438:ILE:HD12	2.01	0.60
2:B:685:VAL:HG12	2:B:686:MET:H	1.67	0.60
5:E:22:VAL:O	5:E:25:ARG:HB2	2.00	0.60
5:E:89:THR:HG23	5:E:90:PHE:CD1	2.36	0.60
1:M:6:PHE:O	1:M:7:SER:C	2.39	0.60
1:M:193:TRP:CH2	1:M:206:ARG:CB	2.80	0.60
1:M:347:MET:CE	1:M:1407:SER:HA	2.32	0.60
1:M:549:ARG:HH22	11:W:50:LEU:HG	1.65	0.60
1:M:740:GLU:CG	1:M:764:ILE:HD12	2.31	0.60
1:M:1062:SER:HB2	1:M:1063:PRO:C	2.22	0.60
1:M:1390:ILE:CD1	1:M:1395:ILE:HG22	2.31	0.60
2:N:318:ASP:O	2:N:320:ILE:N	2.31	0.60
2:N:341:ILE:HG23	2:N:345:GLU:HB2	1.84	0.60
2:N:778:MET:HA	2:N:956:ARG:HH21	1.67	0.60
2:N:960:THR:HB	3:O:60:GLU:OE1	2.02	0.60
4:P:57:LYS:HD2	7:S:106:PRO:HA	1.84	0.60
1:A:152:THR:O	1:A:174:GLY:CA	2.50	0.60
1:A:256:ILE:HG23	1:A:257:SER:N	2.16	0.60
1:A:312:ASN:ND2	1:A:330:SER:CB	2.52	0.60
1:A:514:PRO:O	1:A:517:ILE:HG12	2.01	0.60
1:A:592:ILE:O	1:A:592:ILE:HG12	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:728:LEU:HD22	1:A:805:PHE:HE1	1.64	0.60
1:A:804:GLY:O	1:A:805:PHE:HB2	2.02	0.60
1:A:815:THR:O	1:A:818:GLU:HB2	2.01	0.60
1:A:946:CYS:N	1:A:947:LYS:O	2.35	0.60
1:A:969:ASN:HD22	1:A:969:ASN:H	1.49	0.60
1:A:1191:GLN:O	1:A:1192:SER:HB3	2.01	0.60
1:A:1407:SER:O	1:A:1409:GLU:HG3	2.01	0.60
2:B:532:SER:HB2	2:B:618:ARG:HB2	1.84	0.60
3:C:37:LEU:HA	3:C:174:THR:HG21	1.84	0.60
5:E:159:LEU:HD23	5:E:162:ARG:HD3	1.83	0.60
1:M:242:ILE:CD1	1:M:245:LEU:CD1	2.78	0.60
1:M:905:ILE:N	1:M:905:ILE:CD1	2.64	0.60
1:M:1183:GLU:O	1:M:1186:GLU:N	2.35	0.60
1:M:1282:VAL:O	1:M:1283:PRO:C	2.39	0.60
2:N:42:VAL:N	2:N:43:GLN:C	2.55	0.60
2:N:211:PHE:HE2	2:N:384:ARG:HD3	1.64	0.60
2:N:1176:ARG:C	2:N:1179:PHE:HE2	2.05	0.60
4:P:32:ILE:HD11	4:P:74:THR:HG23	1.83	0.60
5:Q:89:THR:HG23	5:Q:90:PHE:CD1	2.36	0.60
9:U:87:GLN:NE2	9:U:97:MET:HE2	2.17	0.60
11:W:76:THR:CA	11:W:77:VAL:HB	2.28	0.60
1:A:62:THR:CG2	1:A:75:THR:CG2	2.60	0.59
1:A:388:PRO:CG	1:A:434:TYR:HE2	2.15	0.59
1:A:613:ILE:HG22	1:A:618:ILE:HG22	1.84	0.59
1:A:876:GLU:HB3	5:E:199:THR:OG1	2.02	0.59
1:A:1465:VAL:HG12	1:A:1466:PRO:N	2.17	0.59
1:A:1474:GLY:O	1:A:1475:THR:CB	2.50	0.59
2:B:243:LEU:C	2:B:244:MET:CG	2.70	0.59
2:B:705:GLU:OE1	2:B:707:LYS:CE	2.48	0.59
2:B:1205:PHE:CE2	2:B:1210:LYS:HA	2.37	0.59
2:B:1205:PHE:HE2	2:B:1210:LYS:CB	2.10	0.59
3:C:66:LEU:O	3:C:69:ILE:HG23	2.02	0.59
1:M:37:ILE:HD12	1:M:85:HIS:O	2.01	0.59
1:M:262:SER:O	1:M:263:ARG:HB2	2.02	0.59
1:M:268:LEU:HD22	1:M:329:LYS:CB	2.32	0.59
1:M:328:LEU:HD22	1:M:328:LEU:C	2.22	0.59
2:N:435:LYS:O	2:N:438:ILE:HD12	2.01	0.59
2:N:873:ARG:HG2	2:N:874:MET:N	2.17	0.59
2:N:947:GLN:N	2:N:948:GLU:HB2	2.16	0.59
5:Q:151:LEU:HB2	5:Q:190:VAL:O	2.01	0.59
7:S:14:LEU:CD1	7:S:30:LYS:NZ	2.64	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:138:ILE:HD11	7:S:171:VAL:CG2	2.31	0.59
9:U:99:LEU:HD23	9:U:99:LEU:C	2.22	0.59
1:A:254:PRO:HG2	1:A:266:ASP:CB	2.31	0.59
1:A:382:TYR:H	1:A:383:PRO:HD3	1.67	0.59
1:A:457:HIS:HA	1:A:1077:GLU:OE2	2.02	0.59
1:A:549:ARG:HH22	11:K:50:LEU:HG	1.66	0.59
1:A:635:LEU:HD23	1:A:635:LEU:O	2.01	0.59
1:A:1165:VAL:C	1:A:1166:ILE:HG23	2.22	0.59
1:A:1459:TYR:HE2	6:F:98:LEU:HD22	1.66	0.59
2:B:41:PHE:HB3	2:B:42:VAL:HB	1.83	0.59
2:B:234:ARG:HE	2:B:408:ARG:HH22	1.49	0.59
2:B:972:ARG:NH1	2:B:1080:TYR:HE1	1.99	0.59
4:D:11:ALA:HB1	4:D:13:LEU:N	2.17	0.59
7:G:5:LEU:HD13	7:G:50:LEU:HD11	1.77	0.59
10:J:2:ILE:H	10:J:56:ILE:CD1	2.09	0.59
1:M:271:LYS:HD3	1:M:322:GLN:OE1	2.02	0.59
1:M:723:LYS:O	1:M:727:ILE:HG23	2.02	0.59
1:M:993:LEU:O	1:M:996:LEU:N	2.32	0.59
1:M:1177:PHE:C	1:M:1180:PRO:HD2	2.23	0.59
1:M:1406:CYS:HB3	1:M:1411:THR:CG2	2.32	0.59
2:N:532:SER:HB2	2:N:618:ARG:HB2	1.84	0.59
2:N:1205:PHE:CE2	2:N:1210:LYS:HA	2.37	0.59
3:O:37:LEU:HA	3:O:174:THR:HG21	1.84	0.59
4:P:11:ALA:HB1	4:P:13:LEU:N	2.17	0.59
9:U:68:LEU:CD2	9:U:69:PRO:HD2	2.26	0.59
1:A:95:ILE:CG2	1:A:314:ILE:CD1	2.73	0.59
1:A:524:LYS:HZ3	1:A:632:GLN:HB3	1.66	0.59
1:A:773:GLN:HE22	1:A:780:ARG:CB	2.14	0.59
1:A:824:MET:HB3	2:B:500:LEU:HD12	1.83	0.59
1:A:1177:PHE:C	1:A:1180:PRO:HD2	2.22	0.59
2:B:288:CYS:CB	2:B:297:LEU:HD21	2.27	0.59
2:B:319:TYR:CD2	2:B:319:TYR:O	2.56	0.59
4:D:127:LEU:HA	4:D:130:LEU:HD12	1.85	0.59
9:I:20:LYS:NZ	9:I:21:VAL:CG2	2.65	0.59
9:I:72:ASP:CA	9:I:81:HIS:NE2	2.65	0.59
1:M:60:LEU:O	1:M:82:HIS:CD2	2.55	0.59
1:M:267:ASP:HB3	1:M:268:LEU:HD23	1.84	0.59
2:N:41:PHE:HB3	2:N:42:VAL:HB	1.83	0.59
2:N:290:ASP:OD2	2:N:291:PRO:CD	2.50	0.59
2:N:292:ASN:OD1	2:N:297:LEU:CD1	2.49	0.59
2:N:565:LYS:HB2	2:N:572:TRP:HE1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:24:VAL:HG12	9:U:25:LEU:N	2.17	0.59
11:W:64:HIS:CD2	11:W:66:LEU:HB2	2.38	0.59
1:A:267:ASP:HB3	1:A:268:LEU:HD23	1.84	0.59
1:A:398:VAL:HG12	1:A:421:LEU:CD1	2.33	0.59
1:A:533:THR:HG21	1:A:656:GLN:HG3	1.85	0.59
1:A:1110:VAL:O	1:A:1110:VAL:CG1	2.50	0.59
1:A:1329:ASP:O	1:A:1333:THR:HG23	2.02	0.59
1:A:1478:LEU:CD2	4:D:45:THR:O	2.47	0.59
2:B:856:GLY:HA2	2:B:857:MET:HB2	1.83	0.59
2:B:1185:PRO:O	2:B:1188:ALA:N	2.35	0.59
6:F:106:ASP:O	6:F:108:LEU:N	2.35	0.59
8:H:33:GLN:C	8:H:35:ASP:H	2.06	0.59
9:I:5:GLN:O	9:I:14:LEU:HD12	2.03	0.59
9:I:67:THR:O	9:I:67:THR:CG2	2.41	0.59
1:M:458:LYS:HE2	2:N:1130:HIS:CD2	2.36	0.59
1:M:541:SER:OG	1:M:622:VAL:HG13	2.01	0.59
1:M:775:ILE:CG2	1:M:1089:TYR:CE2	2.86	0.59
1:M:846:ARG:HG2	1:M:1390:ILE:HG22	1.81	0.59
1:M:1127:ILE:HB	1:M:1128:ALA:HB2	1.83	0.59
1:M:1165:VAL:O	1:M:1166:ILE:CD1	2.50	0.59
1:M:1165:VAL:C	1:M:1166:ILE:HG23	2.22	0.59
2:N:317:LEU:CB	2:N:335:LEU:HD23	2.32	0.59
2:N:440:THR:HG23	2:N:441:ASN:N	2.17	0.59
2:N:754:PRO:O	2:N:757:THR:HG22	2.02	0.59
1:A:86:ILE:CG2	1:A:245:LEU:HB3	2.31	0.59
1:A:1126:TRP:HA	1:A:1128:ALA:HA	1.83	0.59
1:A:1170:LYS:O	1:A:1172:PHE:N	2.29	0.59
1:A:1281:GLY:O	1:A:1283:PRO:CD	2.50	0.59
1:A:1490:PRO:HG3	7:G:53:ASN:ND2	2.17	0.59
9:I:75:CYS:O	9:I:76:PRO:C	2.40	0.59
11:K:76:THR:CA	11:K:77:VAL:HB	2.28	0.59
1:M:55:LEU:HD13	1:M:56:LEU:N	2.18	0.59
1:M:354:SER:OG	2:N:1117:LEU:HB2	2.00	0.59
1:M:613:ILE:HG22	1:M:618:ILE:HG22	1.84	0.59
1:M:728:LEU:HD12	1:M:773:GLN:OE1	2.02	0.59
1:M:775:ILE:HG12	1:M:1089:TYR:HB2	1.85	0.59
1:M:1047:TRP:CH2	1:M:1051:GLU:HG3	2.37	0.59
2:N:199:ALA:HB3	2:N:484:THR:CB	2.29	0.59
2:N:438:ILE:HG12	2:N:439:ILE:N	2.17	0.59
2:N:724:VAL:O	2:N:724:VAL:HG12	2.02	0.59
4:P:61:TYR:O	4:P:65:PHE:HD2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:112:SER:OG	7:S:115:LEU:HG	2.02	0.59
9:U:34:TYR:OH	9:U:36:GLU:HB2	2.02	0.59
11:W:52:ASP:HB3	11:W:54:ARG:HG3	1.84	0.59
1:A:198:ASP:O	1:A:199:GLU:CB	2.42	0.59
1:A:644:GLY:O	1:A:648:CYS:HB2	2.03	0.59
1:A:1047:TRP:CH2	1:A:1051:GLU:HG3	2.37	0.59
1:A:1450:TYR:CE2	6:F:125:ARG:CG	2.85	0.59
2:B:290:ASP:OD2	2:B:291:PRO:CD	2.50	0.59
2:B:758:TYR:O	2:B:760:SER:N	2.30	0.59
7:G:140:LYS:HG2	7:G:140:LYS:O	2.02	0.59
1:M:82:HIS:N	1:M:249:PRO:HB3	2.16	0.59
1:M:781:ILE:HG21	1:M:803:ARG:CA	2.29	0.59
1:M:876:GLU:HB3	5:Q:199:THR:OG1	2.02	0.59
1:M:1409:GLU:HB3	1:M:1410:GLU:HA	1.85	0.59
2:N:54:SER:HA	2:N:79:PHE:CD1	2.38	0.59
2:N:307:ALA:O	2:N:310:ILE:CG1	2.49	0.59
2:N:401:SER:HA	2:N:404:ARG:HH11	1.65	0.59
2:N:461:ASN:O	2:N:462:ARG:O	2.21	0.59
2:N:1185:PRO:C	2:N:1187:ALA:N	2.53	0.59
3:O:136:ALA:HB3	10:V:16:ASP:OD1	2.03	0.59
5:Q:76:PHE:HA	5:Q:105:ILE:HG13	1.84	0.59
7:S:51:ASP:O	7:S:52:SER:HB3	2.03	0.59
7:S:68:PHE:N	7:S:68:PHE:CD1	2.68	0.59
1:A:6:PHE:O	1:A:7:SER:C	2.39	0.59
1:A:51:ARG:O	1:A:52:VAL:CB	2.43	0.59
1:A:150:CYS:HB2	1:A:176:GLY:N	2.18	0.59
1:A:271:LYS:HD3	1:A:322:GLN:OE1	2.02	0.59
1:A:328:LEU:C	1:A:328:LEU:HD22	2.23	0.59
1:A:382:TYR:HE2	1:A:440:ARG:NE	2.00	0.59
1:A:646:GLU:C	1:A:648:CYS:H	2.04	0.59
1:A:728:LEU:HD12	1:A:773:GLN:OE1	2.02	0.59
1:A:1165:VAL:O	1:A:1166:ILE:CD1	2.50	0.59
1:A:1496:PHE:CD1	4:D:29:GLU:HG2	2.38	0.59
2:B:281:ARG:CB	9:I:6:TYR:CE1	2.85	0.59
2:B:640:ILE:HD11	2:B:673:LEU:HB3	1.84	0.59
2:B:654:ARG:CD	2:B:657:ILE:HG13	2.33	0.59
2:B:888:ILE:HD13	2:B:900:ILE:HG22	1.83	0.59
3:C:198:ALA:O	3:C:200:ALA:N	2.36	0.59
4:D:57:LYS:HD2	7:G:106:PRO:HA	1.84	0.59
5:E:101:THR:HG22	5:E:126:THR:N	2.15	0.59
6:F:120:ILE:HG23	6:F:138:VAL:HG11	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:42:ILE:O	8:H:42:ILE:HG13	2.02	0.59
1:M:969:ASN:H	1:M:969:ASN:HD22	1.49	0.59
1:M:1097:VAL:O	1:M:1098:THR:HG23	2.03	0.59
1:M:1119:LEU:HB3	1:M:1314:THR:CG2	2.24	0.59
1:M:1280:ARG:NH1	5:Q:6:LYS:NZ	2.50	0.59
2:N:871:THR:O	2:N:872:LEU:HG	2.01	0.59
2:N:872:LEU:CG	2:N:872:LEU:O	2.51	0.59
2:N:995:ILE:CG2	10:V:42:ARG:HD2	2.33	0.59
3:O:182:ASP:C	3:O:182:ASP:OD1	2.41	0.59
3:O:198:ALA:O	3:O:200:ALA:N	2.35	0.59
7:S:147:LYS:CG	7:S:169:LEU:HD11	2.32	0.59
10:V:7:CYS:HB3	10:V:45:CYS:CB	2.32	0.59
1:A:118:ASP:HB2	1:A:120:SER:CB	2.33	0.59
1:A:549:ARG:NH2	11:K:50:LEU:HD21	2.18	0.59
1:A:567:PRO:O	1:A:578:TRP:CH2	2.56	0.59
1:A:1248:ASP:OD1	1:A:1249:ASP:HA	2.02	0.59
1:A:1319:LEU:O	1:A:1321:GLU:N	2.36	0.59
1:A:1437:GLY:HA2	2:B:1141:PHE:CG	2.38	0.59
1:A:1472:GLY:O	1:A:1473:MET:CG	2.49	0.59
2:B:228:ALA:HB2	2:B:237:SER:OG	2.03	0.59
2:B:556:ASN:OD1	2:B:557:PRO:HD3	2.03	0.59
2:B:871:THR:O	2:B:872:LEU:CB	2.50	0.59
5:E:60:TYR:HB3	5:E:73:TYR:HD1	1.67	0.59
7:G:51:ASP:O	7:G:52:SER:HB3	2.03	0.59
7:G:138:ILE:CG1	7:G:171:VAL:CG2	2.78	0.59
8:H:59:ILE:HG13	8:H:60:THR:H	1.68	0.59
9:I:37:ILE:HG22	9:I:38:ALA:N	2.18	0.59
1:M:118:ASP:HB2	1:M:120:SER:CB	2.33	0.59
1:M:362:ASP:OD1	1:M:365:LEU:CG	2.32	0.59
1:M:646:GLU:C	1:M:648:CYS:H	2.04	0.59
1:M:945:LEU:O	1:M:945:LEU:HD23	2.01	0.59
1:M:946:CYS:N	1:M:947:LYS:O	2.36	0.59
1:M:1325:VAL:HG12	1:M:1326:GLU:N	2.18	0.59
1:M:1402:ALA:O	1:M:1405:ARG:N	2.36	0.59
2:N:601:ILE:HA	2:N:612:LEU:HD23	1.83	0.59
3:O:66:LEU:O	3:O:69:ILE:HG23	2.02	0.59
3:O:187:LEU:HD11	3:O:224:GLU:O	2.02	0.59
4:P:16:GLY:O	4:P:20:GLU:CG	2.47	0.59
4:P:36:THR:O	4:P:40:GLN:HG3	2.01	0.59
4:P:101:ALA:O	4:P:104:ALA:N	2.35	0.59
5:Q:60:TYR:HB3	5:Q:73:TYR:HD1	1.67	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:108:HIS:CD2	8:T:111:LEU:HD13	2.37	0.59
9:U:75:CYS:O	9:U:76:PRO:C	2.40	0.59
1:A:25:SER:HA	1:A:239:TRP:CD1	2.38	0.59
1:A:60:LEU:O	1:A:82:HIS:CD2	2.55	0.59
1:A:342:LEU:HD11	1:A:1409:GLU:CG	2.31	0.59
1:A:388:PRO:CB	1:A:434:TYR:CE2	2.86	0.59
1:A:520:PRO:HB3	1:A:882:THR:N	2.17	0.59
1:A:723:LYS:O	1:A:727:ILE:HG23	2.02	0.59
1:A:792:HIS:HB3	1:A:817:GLN:HE21	1.68	0.59
1:A:1110:VAL:CG1	1:A:1387:LEU:HD13	2.26	0.59
2:B:754:PRO:O	2:B:757:THR:HG22	2.02	0.59
2:B:816:ILE:HG23	2:B:1001:ILE:HD12	1.85	0.59
2:B:872:LEU:CG	2:B:872:LEU:O	2.51	0.59
5:E:151:LEU:HB2	5:E:190:VAL:O	2.01	0.59
7:G:63:VAL:CG1	7:G:66:GLN:HB2	2.32	0.59
8:H:6:LEU:HB2	8:H:59:ILE:CD1	2.32	0.59
1:M:401:GLY:O	1:M:407:GLY:HA3	2.03	0.59
1:M:573:LYS:HB2	1:M:574:PRO:CD	2.33	0.59
1:M:816:PRO:CG	2:N:689:MET:HE1	2.32	0.59
2:N:1061:MET:HE1	2:N:1076:LEU:HD12	1.84	0.59
3:O:144:LEU:HD23	3:O:145:ILE:N	2.18	0.59
7:S:63:VAL:CG1	7:S:66:GLN:HB2	2.32	0.59
9:U:97:MET:O	9:U:99:LEU:N	2.30	0.59
10:V:27:GLU:O	10:V:28:ASP:HB2	2.01	0.59
1:A:401:GLY:O	1:A:407:GLY:HA3	2.03	0.59
1:A:439:GLU:OE2	2:B:1097:ARG:NH2	2.36	0.59
1:A:810:TYR:HE2	2:B:752:GLN:HA	1.67	0.59
1:A:918:GLU:OE1	1:A:981:PRO:CG	2.51	0.59
1:A:1098:THR:HA	1:A:1116:THR:HG21	1.84	0.59
1:A:1150:THR:HG21	9:I:48:LEU:CD2	2.29	0.59
1:A:1409:GLU:HB3	1:A:1410:GLU:HA	1.85	0.59
2:B:263:ARG:HD3	2:B:323:ARG:O	2.03	0.59
3:C:136:ALA:HB3	10:J:16:ASP:OD1	2.03	0.59
9:I:99:LEU:HD23	9:I:99:LEU:C	2.22	0.59
1:M:2:SER:HB2	7:S:65:GLY:O	2.02	0.59
1:M:151:ASP:HB2	1:M:172:HIS:NE2	2.18	0.59
1:M:257:SER:C	1:M:259:ASP:H	2.06	0.59
1:M:533:THR:HG21	1:M:656:GLN:HG3	1.85	0.59
1:M:1216:ALA:HA	1:M:1219:ILE:HD11	1.85	0.59
1:M:1280:ARG:HH12	5:Q:6:LYS:HZ1	1.50	0.59
1:M:1319:LEU:O	1:M:1321:GLU:N	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1328:VAL:H	1:M:1329:ASP:CA	2.15	0.59
1:M:1459:TYR:HE2	6:R:98:LEU:HD22	1.65	0.59
2:N:211:PHE:CE1	2:N:213:LYS:HE3	2.38	0.59
2:N:319:TYR:CD2	2:N:319:TYR:O	2.55	0.59
3:O:44:ALA:HA	3:O:71:LEU:HD13	1.85	0.59
4:P:122:GLY:O	4:P:126:GLU:HG3	2.03	0.59
5:Q:47:GLY:O	5:Q:48:MET:C	2.40	0.59
8:T:59:ILE:HG13	8:T:60:THR:H	1.68	0.59
1:A:87:GLU:O	1:A:88:LEU:CD2	2.51	0.58
1:A:105:LEU:O	1:A:106:GLU:CB	2.32	0.58
1:A:257:SER:C	1:A:259:ASP:H	2.06	0.58
1:A:425:LYS:CE	1:A:430:ILE:HG13	2.33	0.58
1:A:445:GLY:HA2	1:A:446:ASP:C	2.22	0.58
1:A:747:ASN:O	1:A:748:ASN:O	2.21	0.58
1:A:1062:SER:HB2	1:A:1063:PRO:C	2.23	0.58
1:A:1140:GLN:O	1:A:1280:ARG:HG2	2.02	0.58
1:A:1279:LEU:O	1:A:1281:GLY:N	2.30	0.58
2:B:440:THR:HG23	2:B:441:ASN:N	2.17	0.58
2:B:1106:GLN:HB3	2:B:1107:PRO:HD2	1.84	0.58
7:G:50:LEU:HD12	7:G:76:ARG:HB3	1.84	0.58
8:H:41:ASP:HB2	8:H:100:LEU:HB3	1.83	0.58
9:I:34:TYR:OH	9:I:36:GLU:HB2	2.03	0.58
11:K:64:HIS:CD2	11:K:66:LEU:HB2	2.38	0.58
1:M:256:ILE:HG23	1:M:257:SER:N	2.16	0.58
1:M:260:GLY:HA3	2:N:924:ARG:CD	2.33	0.58
1:M:398:VAL:HG12	1:M:421:LEU:CD1	2.33	0.58
1:M:668:PHE:CZ	1:M:752:MET:HE2	2.38	0.58
1:M:804:GLY:O	1:M:805:PHE:HB2	2.02	0.58
1:M:808:ASN:HD21	2:N:716:VAL:CG2	2.16	0.58
2:N:228:ALA:HB2	2:N:237:SER:OG	2.03	0.58
2:N:685:VAL:HG12	2:N:686:MET:N	2.19	0.58
7:S:15:HIS:ND1	7:S:16:PRO:HD2	2.17	0.58
8:T:33:GLN:C	8:T:35:ASP:H	2.06	0.58
1:A:28:GLU:OE1	2:B:1203:ARG:NH2	2.37	0.58
1:A:385:THR:HG23	1:A:437:ARG:HG2	1.84	0.58
1:A:1075:ILE:C	1:A:1078:PRO:HD2	2.23	0.58
1:A:1080:THR:O	1:A:1083:THR:HG22	2.04	0.58
1:A:1119:LEU:HD11	1:A:1121:ILE:HG13	1.83	0.58
2:B:54:SER:HA	2:B:79:PHE:CD1	2.38	0.58
2:B:281:ARG:CA	9:I:6:TYR:CE1	2.86	0.58
4:D:101:ALA:O	4:D:104:ALA:N	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:14:ARG:NH1	2:N:1207:LYS:HD3	2.19	0.58
1:M:644:GLY:O	1:M:648:CYS:HB2	2.03	0.58
1:M:968:GLN:HG3	1:M:968:GLN:O	2.02	0.58
1:M:1066:MET:HG2	2:N:1128:ILE:HG22	1.84	0.58
1:M:1397:ARG:NH1	1:M:1400:THR:OG1	2.36	0.58
2:N:700:MET:O	2:N:702:ALA:N	2.36	0.58
4:P:132:LYS:CG	4:P:133:PHE:O	2.49	0.58
7:S:12:ILE:HG22	7:S:14:LEU:HD13	1.86	0.58
7:S:151:THR:CG2	7:S:160:ALA:CB	2.78	0.58
8:T:41:ASP:HB2	8:T:100:LEU:HB3	1.83	0.58
12:X:48:VAL:O	12:X:49:MET:CB	2.51	0.58
1:A:116:LYS:HG2	1:A:117:ILE:N	2.18	0.58
1:A:668:PHE:CZ	1:A:752:MET:HE2	2.38	0.58
1:A:800:PRO:O	1:A:802:SER:N	2.36	0.58
2:B:30:LEU:HB2	2:B:184:GLN:OE1	2.03	0.58
9:I:55:ASN:O	9:I:56:THR:C	2.42	0.58
1:M:781:ILE:HD12	1:M:782:PRO:HD2	1.85	0.58
1:M:1098:THR:HA	1:M:1116:THR:HG21	1.85	0.58
1:M:1363:GLU:HA	1:M:1367:SER:HB2	1.83	0.58
2:N:1112:SER:O	2:N:1113:ARG:HB3	2.02	0.58
4:P:68:PHE:HB3	4:P:73:ALA:CB	2.34	0.58
5:Q:27:TYR:CE2	5:Q:72:ILE:HG13	2.39	0.58
7:S:82:PRO:HG3	7:S:107:LEU:CD2	2.33	0.58
12:X:39:ILE:HD12	12:X:39:ILE:N	2.18	0.58
1:A:780:ARG:HH11	1:A:803:ARG:CZ	2.16	0.58
1:A:1216:ALA:HA	1:A:1219:ILE:HD11	1.85	0.58
1:A:1450:TYR:CD1	7:G:61:ARG:HA	2.37	0.58
2:B:89:MET:HA	2:B:89:MET:HE3	1.86	0.58
2:B:229:LEU:N	2:B:229:LEU:HD23	2.18	0.58
2:B:391:ARG:HE	2:B:618:ARG:HH21	1.50	0.58
3:C:218:GLU:N	3:C:219:PRO:HA	2.18	0.58
7:G:12:ILE:HG22	7:G:14:LEU:HD13	1.86	0.58
7:G:15:HIS:ND1	7:G:16:PRO:HD2	2.17	0.58
9:I:20:LYS:NZ	9:I:21:VAL:HG23	2.18	0.58
12:L:21:ILE:HG23	12:L:30:ARG:HG3	1.84	0.58
1:M:11:VAL:HG11	2:N:1179:PHE:HB2	1.85	0.58
1:M:11:VAL:HG23	2:N:1181:GLN:HB2	1.85	0.58
1:M:15:ARG:HD3	1:M:1438:GLN:NE2	2.11	0.58
1:M:88:LEU:CB	1:M:243:THR:O	2.49	0.58
1:M:169:ASN:HD22	1:M:169:ASN:C	2.06	0.58
1:M:260:GLY:CA	2:N:924:ARG:CD	2.81	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:425:LYS:CE	1:M:430:ILE:HG13	2.33	0.58
1:M:747:ASN:O	1:M:748:ASN:O	2.21	0.58
1:M:810:TYR:HE2	2:N:752:GLN:HA	1.62	0.58
1:M:1260:ILE:HA	1:M:1261:GLU:CB	2.33	0.58
1:M:1329:ASP:O	1:M:1333:THR:HG23	2.02	0.58
2:N:1095:ARG:O	2:N:1096:ALA:HB2	2.04	0.58
3:O:58:PRO:HD2	3:O:61:PHE:HB2	1.82	0.58
10:V:2:ILE:H	10:V:56:ILE:CD1	2.09	0.58
1:A:25:SER:CB	1:A:239:TRP:CE2	2.84	0.58
1:A:318:PRO:O	1:A:319:GLN:HB2	2.04	0.58
1:A:513:VAL:N	1:A:514:PRO:CD	2.66	0.58
1:A:781:ILE:HD12	1:A:782:PRO:HD2	1.85	0.58
1:A:1097:VAL:O	1:A:1098:THR:HG23	2.03	0.58
1:A:1397:ARG:NH1	1:A:1400:THR:OG1	2.36	0.58
2:B:268:ILE:HG13	2:B:269:VAL:N	2.19	0.58
2:B:391:ARG:HE	2:B:618:ARG:NH2	2.01	0.58
2:B:778:MET:HA	2:B:956:ARG:HH21	1.67	0.58
5:E:22:VAL:HG21	5:E:29:VAL:CG2	2.33	0.58
7:G:68:PHE:CD1	7:G:68:PHE:N	2.68	0.58
7:G:82:PRO:HG3	7:G:107:LEU:CD2	2.33	0.58
8:H:111:LEU:C	8:H:113:ARG:N	2.56	0.58
1:M:21:PHE:CE2	1:M:1403:LEU:HD12	2.37	0.58
1:M:388:PRO:HD3	6:R:94:ASN:HB2	1.86	0.58
1:M:439:GLU:OE2	2:N:1097:ARG:NH2	2.36	0.58
1:M:773:GLN:HE22	1:M:780:ARG:CB	2.14	0.58
1:M:1075:ILE:C	1:M:1078:PRO:HD2	2.24	0.58
1:M:1136:ASN:O	1:M:1140:GLN:HB2	2.03	0.58
1:M:1253:ALA:CB	1:M:1254:GLU:HA	2.23	0.58
2:N:508:VAL:HG13	2:N:510:PRO:HA	1.85	0.58
2:N:871:THR:O	2:N:872:LEU:CB	2.50	0.58
3:O:69:ILE:HD12	3:O:70:PRO:HD2	1.85	0.58
3:O:147:LYS:O	3:O:148:LEU:HD23	2.03	0.58
8:T:42:ILE:HG13	8:T:42:ILE:O	2.02	0.58
1:A:629:GLY:O	1:A:631:SER:N	2.30	0.58
1:A:810:TYR:C	2:B:750:HIS:CD2	2.77	0.58
1:A:846:ARG:HH12	1:A:1391:THR:HA	1.59	0.58
2:B:582:LEU:O	2:B:586:LEU:HD13	2.04	0.58
2:B:700:MET:O	2:B:702:ALA:N	2.36	0.58
3:C:253:GLN:NE2	11:K:98:GLU:HG3	2.11	0.58
4:D:23:ASP:HB3	4:D:87:LYS:HD3	1.85	0.58
4:D:61:TYR:O	4:D:65:PHE:HD2	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:31:GLU:HB3	10:J:33:GLU:H	1.68	0.58
1:M:689:VAL:HG11	1:M:807:GLU:HG2	1.85	0.58
1:M:1080:THR:O	1:M:1083:THR:HG22	2.03	0.58
1:M:1164:THR:CG2	1:M:1242:ARG:HH22	2.12	0.58
2:N:89:MET:HE2	2:N:90:THR:H	1.69	0.58
2:N:213:LYS:O	2:N:214:ALA:CB	2.52	0.58
2:N:637:GLU:OE1	2:N:698:ARG:HD2	2.04	0.58
2:N:685:VAL:HG12	2:N:728:THR:CG2	2.34	0.58
2:N:701:GLN:NE2	2:N:725:HIS:O	2.37	0.58
4:P:99:GLU:HB3	4:P:124:LEU:HD21	1.78	0.58
9:U:72:ASP:CA	9:U:81:HIS:NE2	2.65	0.58
9:U:110:PHE:CD1	9:U:110:PHE:O	2.56	0.58
1:A:11:VAL:HG23	2:B:1181:GLN:HB2	1.85	0.58
1:A:20:GLN:OE1	2:B:1205:PHE:CD1	2.57	0.58
1:A:86:ILE:HG22	1:A:245:LEU:HB3	1.84	0.58
2:B:211:PHE:CE1	2:B:213:LYS:HE3	2.38	0.58
2:B:225:ILE:HD11	2:B:367:MET:SD	2.43	0.58
2:B:292:ASN:N	2:B:293:ASP:CB	2.55	0.58
2:B:426:ARG:C	2:B:428:PHE:H	2.07	0.58
2:B:565:LYS:HB2	2:B:572:TRP:HE1	1.67	0.58
2:B:873:ARG:HG3	3:O:265:GLU:CD	2.24	0.58
2:B:942:MET:HB2	12:L:50:TYR:CE2	2.39	0.58
2:B:995:ILE:CG2	10:J:42:ARG:HD2	2.33	0.58
5:E:76:PHE:HA	5:E:105:ILE:HG13	1.84	0.58
7:G:84:ARG:HG2	7:G:150:GLY:HA2	1.86	0.58
10:J:7:CYS:HB3	10:J:45:CYS:CB	2.32	0.58
1:M:165:ASN:HB3	1:M:166:PRO:HA	0.69	0.58
1:M:380:LEU:CD1	1:M:442:ILE:CD1	2.75	0.58
1:M:567:PRO:O	1:M:578:TRP:CH2	2.56	0.58
1:M:816:PRO:HG2	2:N:689:MET:CE	2.33	0.58
1:M:1098:THR:HG22	1:M:1116:THR:OG1	2.04	0.58
1:M:1248:ASP:OD1	1:M:1249:ASP:HA	2.02	0.58
2:N:30:LEU:HB2	2:N:184:GLN:OE1	2.03	0.58
2:N:654:ARG:CD	2:N:657:ILE:HG13	2.33	0.58
3:O:259:LEU:CD1	11:W:34:LEU:HD21	2.34	0.58
5:Q:22:VAL:HG21	5:Q:29:VAL:CG2	2.33	0.58
7:S:50:LEU:HD12	7:S:76:ARG:HB3	1.84	0.58
1:A:11:VAL:HG11	2:B:1179:PHE:HB2	1.85	0.58
1:A:490:GLY:HA3	2:B:968:LYS:HE2	1.84	0.58
1:A:950:PHE:HB2	1:A:951:PRO:CD	2.31	0.58
1:A:1253:ALA:CB	1:A:1254:GLU:HA	2.23	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1260:ILE:HA	1:A:1261:GLU:CB	2.33	0.58
1:A:1320:THR:C	1:A:1322:ALA:H	2.06	0.58
2:B:685:VAL:HG12	2:B:686:MET:N	2.19	0.58
2:B:847:THR:HG22	2:B:956:ARG:CB	2.34	0.58
4:D:122:GLY:O	4:D:126:GLU:HG3	2.03	0.58
9:I:50:SER:O	9:I:51:SER:CB	2.50	0.58
12:L:24:CYS:HA	12:L:49:MET:HG2	1.86	0.58
1:M:20:GLN:N	2:N:1203:ARG:O	2.34	0.58
1:M:120:SER:N	1:M:122:PRO:CA	2.64	0.58
1:M:452:ARG:HH11	1:M:486:ALA:HB2	1.68	0.58
1:M:549:ARG:NH2	11:W:50:LEU:HD21	2.18	0.58
1:M:918:GLU:OE1	1:M:981:PRO:CG	2.51	0.58
1:M:1504:ALA:C	1:M:1507:PRO:CD	2.72	0.58
2:N:426:ARG:C	2:N:428:PHE:H	2.06	0.58
2:N:640:ILE:HD11	2:N:673:LEU:HB3	1.84	0.58
2:N:1106:GLN:HG2	2:N:1145:ASP:OD2	2.03	0.58
3:O:42:THR:HG21	3:O:171:TRP:O	2.04	0.58
4:P:66:ALA:HB1	4:P:69:LYS:HG2	1.85	0.58
7:S:46:ILE:O	7:S:46:ILE:CG2	2.48	0.58
11:W:46:ALA:C	11:W:48:GLN:H	2.04	0.58
1:A:573:LYS:CE	8:H:74:TYR:CZ	2.87	0.58
1:A:1195:LEU:HD11	1:A:1242:ARG:CG	2.33	0.58
2:B:341:ILE:HG23	2:B:345:GLU:HB2	1.84	0.58
2:B:378:ARG:HG2	9:I:52:ASN:ND2	2.19	0.58
2:B:386:HIS:HA	2:B:387:PHE:HB3	1.86	0.58
8:H:79:LYS:HA	8:H:118:HIS:HA	1.86	0.58
9:I:68:LEU:CD2	9:I:69:PRO:HD2	2.26	0.58
11:K:91:LYS:HA	11:K:94:ILE:HD11	1.86	0.58
1:M:40:PRO:HA	1:M:276:ILE:HG21	1.86	0.58
2:N:225:ILE:HD11	2:N:367:MET:SD	2.43	0.58
3:O:218:GLU:N	3:O:219:PRO:HA	2.18	0.58
8:T:113:ARG:CG	8:T:114:LEU:N	2.64	0.58
9:U:37:ILE:CG2	9:U:38:ALA:N	2.66	0.58
1:A:55:LEU:HD13	1:A:56:LEU:N	2.18	0.58
1:A:589:PRO:O	1:A:592:ILE:HD11	2.03	0.58
1:A:1402:ALA:O	1:A:1405:ARG:N	2.36	0.58
1:A:1466:PRO:O	1:A:1467:THR:C	2.42	0.58
2:B:281:ARG:CB	9:I:6:TYR:CD1	2.87	0.58
2:B:461:ASN:O	2:B:462:ARG:O	2.21	0.58
2:B:688:ALA:HB3	2:B:730:CYS:HB2	1.86	0.58
2:B:941:VAL:CG1	2:B:955:VAL:HG13	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:35:VAL:HG21	3:C:252:LEU:CD1	2.34	0.58
3:C:182:ASP:C	3:C:182:ASP:OD1	2.41	0.58
4:D:132:LYS:CG	4:D:133:PHE:O	2.49	0.58
12:L:48:VAL:O	12:L:49:MET:CB	2.51	0.58
12:L:55:LYS:HB2	12:L:56:ARG:CA	2.28	0.58
1:M:25:SER:HA	1:M:239:TRP:CD1	2.38	0.58
1:M:115:LEU:HD21	1:M:227:HIS:CB	2.34	0.58
1:M:350:ARG:CD	2:N:1117:LEU:O	2.51	0.58
1:M:800:PRO:O	1:M:802:SER:N	2.37	0.58
1:M:824:MET:CB	2:N:500:LEU:HB3	2.33	0.58
1:M:1246:ILE:O	1:M:1247:ARG:CG	2.52	0.58
2:N:741:LEU:O	2:N:744:ILE:HG12	2.04	0.58
2:N:867:VAL:O	2:N:869:SER:N	2.33	0.58
1:A:14:ARG:NH1	2:B:1207:LYS:HD3	2.18	0.57
1:A:405:HIS:O	1:A:407:GLY:N	2.30	0.57
1:A:432:LEU:C	1:A:436:TRP:CZ2	2.77	0.57
1:A:452:ARG:HH11	1:A:486:ALA:HB2	1.68	0.57
1:A:1390:ILE:O	1:A:1390:ILE:HG22	2.02	0.57
1:A:1444:THR:HB	2:B:1131:GLY:O	2.04	0.57
2:B:213:LYS:O	2:B:214:ALA:CB	2.52	0.57
2:B:637:GLU:OE1	2:B:698:ARG:HD2	2.04	0.57
2:B:685:VAL:HG12	2:B:728:THR:CG2	2.34	0.57
2:B:741:LEU:O	2:B:744:ILE:HG12	2.04	0.57
3:C:69:ILE:HD12	3:C:70:PRO:HD2	1.85	0.57
4:D:27:VAL:CG2	4:D:95:THR:CG2	2.61	0.57
4:D:36:THR:O	4:D:40:GLN:CG	2.52	0.57
7:G:114:HIS:NE2	7:G:115:LEU:CD2	2.67	0.57
9:I:110:PHE:O	9:I:110:PHE:CD1	2.56	0.57
1:M:312:ASN:ND2	1:M:330:SER:CB	2.52	0.57
1:M:780:ARG:HH11	1:M:803:ARG:CZ	2.16	0.57
1:M:816:PRO:C	1:M:818:GLU:H	2.06	0.57
1:M:947:LYS:H	1:M:947:LYS:HD2	1.69	0.57
2:N:310:ILE:HB	2:N:311:GLN:HA	0.67	0.57
2:N:831:ASN:ND2	2:N:833:ALA:N	2.52	0.57
7:S:84:ARG:HG2	7:S:150:GLY:HA2	1.86	0.57
8:T:79:LYS:HA	8:T:118:HIS:HA	1.86	0.57
10:V:31:GLU:HB3	10:V:33:GLU:H	1.68	0.57
1:A:40:PRO:HA	1:A:276:ILE:HG21	1.86	0.57
1:A:111:ASN:CG	1:A:216:ILE:HG12	2.23	0.57
1:A:231:ASN:C	1:A:233:GLN:H	2.07	0.57
1:A:267:ASP:H	1:A:268:LEU:CA	2.16	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:645:PRO:O	1:A:646:GLU:CB	2.52	0.57
1:A:946:CYS:SG	1:A:949:ILE:HD11	2.45	0.57
1:A:1172:PHE:HB3	1:A:1176:PHE:HE2	1.69	0.57
1:A:1295:ILE:CG2	1:A:1307:ALA:O	2.49	0.57
1:A:1450:TYR:HD1	7:G:61:ARG:N	2.00	0.57
2:B:82:ILE:HB	2:B:117:VAL:HG22	1.86	0.57
2:B:281:ARG:HA	9:I:6:TYR:HE1	1.68	0.57
2:B:701:GLN:NE2	2:B:725:HIS:O	2.37	0.57
3:C:144:LEU:HD23	3:C:145:ILE:N	2.18	0.57
3:C:259:LEU:CD1	11:K:34:LEU:HD21	2.34	0.57
4:D:14:LYS:O	4:D:15:LEU:CG	2.52	0.57
5:E:27:TYR:CE2	5:E:72:ILE:HG13	2.38	0.57
7:G:114:HIS:CD2	7:G:114:HIS:O	2.56	0.57
8:H:80:VAL:HG13	8:H:95:VAL:CG2	2.34	0.57
1:M:104:ILE:HG23	1:M:107:CYS:SG	2.43	0.57
1:M:311:ASP:HB2	1:M:314:ILE:CD1	2.34	0.57
1:M:380:LEU:C	1:M:381:THR:HG22	2.09	0.57
2:N:41:PHE:HB3	2:N:42:VAL:CG2	2.35	0.57
2:N:82:ILE:HB	2:N:117:VAL:HG22	1.86	0.57
2:N:281:ARG:CB	9:U:6:TYR:CE1	2.86	0.57
2:N:387:PHE:CE1	2:N:504:HIS:CD2	2.91	0.57
2:N:694:LEU:CD2	2:N:727:TRP:CD1	2.87	0.57
2:N:1106:GLN:HB3	2:N:1107:PRO:HD2	1.84	0.57
3:O:140:SER:O	3:O:141:ARG:CG	2.48	0.57
4:P:127:LEU:HA	4:P:130:LEU:HD12	1.85	0.57
1:A:242:ILE:CD1	1:A:245:LEU:CD1	2.78	0.57
1:A:573:LYS:HB3	8:H:74:TYR:HA	1.86	0.57
1:A:771:VAL:HG23	1:A:809:SER:HA	1.85	0.57
1:A:969:ASN:HD22	1:A:969:ASN:N	2.02	0.57
1:A:1325:VAL:HG12	1:A:1326:GLU:N	2.18	0.57
2:B:236:ILE:O	2:B:237:SER:CB	2.50	0.57
2:B:716:VAL:O	2:B:716:VAL:HG12	2.04	0.57
2:B:1037:THR:HG23	2:B:1039:VAL:H	1.69	0.57
3:C:44:ALA:HA	3:C:71:LEU:HD13	1.85	0.57
4:D:71:ALA:O	4:D:75:TYR:HD2	1.84	0.57
12:L:39:ILE:HD12	12:L:39:ILE:N	2.18	0.57
1:M:59:ARG:HB2	1:M:60:LEU:HA	1.86	0.57
1:M:87:GLU:O	1:M:88:LEU:CD2	2.51	0.57
1:M:775:ILE:CG2	1:M:1089:TYR:CD2	2.87	0.57
1:M:1146:LEU:HD13	1:M:1274:LEU:HD23	1.83	0.57
1:M:1195:LEU:HD11	1:M:1242:ARG:CG	2.33	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1412:VAL:HG13	1:M:1413:GLU:HG3	1.86	0.57
1:M:1434:ILE:O	2:N:1141:PHE:CE2	2.58	0.57
1:M:1458:ASN:O	1:M:1459:TYR:C	2.42	0.57
2:N:229:LEU:N	2:N:229:LEU:HD23	2.19	0.57
2:N:359:ARG:NE	2:N:573:LEU:HD21	2.20	0.57
2:N:399:LEU:HA	2:N:402:LEU:HD12	1.86	0.57
2:N:556:ASN:OD1	2:N:557:PRO:HD3	2.03	0.57
2:N:861:GLU:HG3	2:N:904:THR:O	2.05	0.57
3:O:35:VAL:HG21	3:O:252:LEU:CD1	2.34	0.57
7:S:114:HIS:NE2	7:S:115:LEU:CD2	2.67	0.57
7:S:115:LEU:CD2	7:S:163:THR:HG22	2.34	0.57
1:A:115:LEU:HD21	1:A:227:HIS:CD2	2.38	0.57
1:A:116:LYS:H	1:A:116:LYS:CD	2.12	0.57
1:A:263:ARG:O	1:A:263:ARG:CG	2.52	0.57
1:A:331:ILE:HD11	2:B:1198:MET:SD	2.45	0.57
1:A:378:LYS:HA	1:A:441:HIS:HD2	1.62	0.57
1:A:785:PHE:HZ	1:A:791:PRO:CG	2.17	0.57
2:B:41:PHE:HB3	2:B:42:VAL:CG2	2.35	0.57
2:B:685:VAL:HG13	2:B:728:THR:HG21	1.87	0.57
2:B:724:VAL:O	2:B:724:VAL:HG12	2.02	0.57
2:B:831:ASN:ND2	2:B:833:ALA:N	2.52	0.57
2:B:861:GLU:HG3	2:B:904:THR:O	2.05	0.57
2:B:1067:GLY:N	3:C:30:ASN:HD22	2.03	0.57
3:C:42:THR:HG21	3:C:171:TRP:O	2.04	0.57
4:D:66:ALA:CB	4:D:69:LYS:HG2	2.35	0.57
5:E:42:LYS:O	5:E:45:HIS:O	2.21	0.57
5:E:74:ILE:HA	5:E:103:ILE:HG13	1.85	0.57
1:M:59:ARG:H	1:M:60:LEU:CA	2.10	0.57
1:M:215:THR:O	1:M:219:HIS:CD2	2.56	0.57
1:M:317:GLN:N	1:M:318:PRO:HD3	2.19	0.57
1:M:1009:ILE:HG22	5:Q:162:ARG:HH21	1.67	0.57
1:M:1062:SER:HA	1:M:1063:PRO:O	2.04	0.57
2:N:480:HIS:HD2	2:N:483:ARG:CZ	2.18	0.57
2:N:582:LEU:O	2:N:586:LEU:HD13	2.04	0.57
2:N:1037:THR:HG23	2:N:1039:VAL:H	1.69	0.57
5:Q:42:LYS:O	5:Q:45:HIS:O	2.21	0.57
8:T:72:ALA:CB	8:T:123:LEU:O	2.44	0.57
11:W:91:LYS:HA	11:W:94:ILE:HD11	1.86	0.57
1:A:11:VAL:HG11	2:B:1179:PHE:CB	2.34	0.57
1:A:597:ASP:HA	1:A:601:GLN:OE1	2.05	0.57
1:A:849:LYS:O	1:A:1408:PHE:CE2	2.56	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:945:LEU:HD23	1:A:945:LEU:C	2.25	0.57
1:A:1085:ASN:O	1:A:1087:PHE:N	2.38	0.57
1:A:1282:VAL:HB	1:A:1285:ILE:CD1	2.21	0.57
1:A:1450:TYR:CD1	7:G:61:ARG:N	2.72	0.57
1:A:1450:TYR:HE2	6:F:125:ARG:CD	2.17	0.57
2:B:538:ALA:C	2:B:540:ILE:H	2.08	0.57
2:B:774:TYR:CE1	2:B:775:GLN:HG2	2.40	0.57
2:B:1061:MET:CE	2:B:1076:LEU:HD12	2.35	0.57
4:D:68:PHE:HB3	4:D:73:ALA:CB	2.33	0.57
7:G:79:LEU:HD12	7:G:81:ARG:NH2	2.20	0.57
1:M:116:LYS:CE	1:M:140:VAL:HG13	2.35	0.57
1:M:128:GLN:CG	1:M:139:ALA:CB	2.73	0.57
1:M:343:ARG:CG	1:M:343:ARG:NH1	2.41	0.57
1:M:589:PRO:O	1:M:592:ILE:HD11	2.03	0.57
1:M:1188:LEU:O	1:M:1189:TYR:HB3	2.04	0.57
2:N:206:ASN:OD1	2:N:227:SER:HB2	2.04	0.57
2:N:538:ALA:C	2:N:540:ILE:H	2.08	0.57
2:N:1110:GLY:O	2:N:1111:ARG:HB2	2.04	0.57
4:P:130:LEU:C	4:P:132:LYS:H	2.08	0.57
5:Q:97:HIS:HB2	5:Q:99:HIS:HE1	1.69	0.57
7:S:114:HIS:CD2	7:S:114:HIS:O	2.56	0.57
1:A:33:SER:CB	1:A:85:HIS:N	2.68	0.57
1:A:370:LEU:HD12	1:A:475:ARG:O	2.05	0.57
1:A:816:PRO:HG2	2:B:689:MET:HE1	1.85	0.57
1:A:1188:LEU:O	1:A:1189:TYR:HB3	2.04	0.57
2:B:694:LEU:CD2	2:B:727:TRP:CD1	2.87	0.57
2:B:887:LEU:HD13	2:B:953:VAL:HG11	1.87	0.57
2:B:1163:TYR:O	2:B:1163:TYR:HD1	1.87	0.57
3:C:147:LYS:O	3:C:148:LEU:HD23	2.03	0.57
11:K:76:THR:HG21	11:K:85:VAL:HG21	1.87	0.57
1:M:192:SER:HB2	1:M:202:LEU:N	2.19	0.57
1:M:368:ASP:OD1	1:M:649:LYS:NZ	2.35	0.57
1:M:812:ARG:HB2	1:M:813:GLY:CA	2.32	0.57
1:M:1085:ASN:O	1:M:1087:PHE:N	2.38	0.57
1:M:1320:THR:C	1:M:1322:ALA:H	2.06	0.57
2:N:221:TYR:CB	2:N:243:LEU:HD13	2.35	0.57
2:N:790:LYS:O	2:N:792:LEU:N	2.37	0.57
5:Q:21:LEU:CD2	5:Q:25:ARG:HE	2.16	0.57
9:U:49:GLN:NE2	9:U:51:SER:O	2.38	0.57
1:A:13:LEU:O	2:B:1181:GLN:O	2.22	0.57
1:A:24:LEU:N	2:B:1199:ASN:O	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:71:THR:CG2	1:A:82:HIS:NE2	2.68	0.57
1:A:104:ILE:HG23	1:A:107:CYS:SG	2.45	0.57
1:A:275:ILE:HG12	1:A:305:HIS:CB	2.35	0.57
1:A:275:ILE:HD13	1:A:306:VAL:HG23	1.86	0.57
1:A:317:GLN:N	1:A:318:PRO:HD3	2.19	0.57
1:A:1098:THR:HG22	1:A:1116:THR:OG1	2.04	0.57
1:A:1166:ILE:CA	1:A:1167:GLU:CB	2.30	0.57
1:A:1496:PHE:HZ	4:D:32:ILE:HG21	1.69	0.57
2:B:991:SER:CB	2:B:1062:TYR:H	2.14	0.57
2:B:1110:GLY:O	2:B:1111:ARG:HB2	2.03	0.57
1:M:331:ILE:HD11	2:N:1198:MET:SD	2.45	0.57
1:M:549:ARG:HH22	11:W:50:LEU:CG	2.18	0.57
1:M:605:ASN:CG	8:T:26:ARG:HH22	2.08	0.57
1:M:645:PRO:O	1:M:646:GLU:CB	2.51	0.57
1:M:728:LEU:HD22	1:M:805:PHE:HE1	1.64	0.57
1:M:1290:MET:SD	1:M:1311:VAL:N	2.78	0.57
1:M:1452:ASP:CG	6:R:123:LEU:HD11	2.24	0.57
2:N:386:HIS:HA	2:N:387:PHE:HB3	1.86	0.57
2:N:942:MET:HB2	12:X:50:TYR:CE2	2.39	0.57
4:P:14:LYS:O	4:P:15:LEU:CG	2.52	0.57
4:P:36:THR:O	4:P:40:GLN:CG	2.52	0.57
5:Q:74:ILE:HA	5:Q:103:ILE:HG13	1.85	0.57
12:X:54:THR:OG1	12:X:56:ARG:HG3	2.04	0.57
1:A:466:ILE:O	1:A:467:ARG:HB3	2.04	0.57
1:A:652:PHE:O	1:A:656:GLN:CB	2.53	0.57
1:A:947:LYS:H	1:A:947:LYS:HD2	1.69	0.57
1:A:1246:ILE:O	1:A:1247:ARG:CG	2.52	0.57
1:A:1276:SER:HB2	1:A:1277:ILE:CD1	2.35	0.57
1:A:1412:VAL:HG13	1:A:1413:GLU:HG3	1.86	0.57
1:A:1478:LEU:HD23	4:D:45:THR:H	1.70	0.57
2:B:102:GLN:HG2	2:B:105:ARG:NE	2.20	0.57
2:B:658:ASP:CB	2:B:659:PRO:CD	2.83	0.57
2:B:1061:MET:HG3	2:B:1074:VAL:CG2	2.34	0.57
2:B:1095:ARG:O	2:B:1096:ALA:HB2	2.04	0.57
5:E:21:LEU:CD2	5:E:25:ARG:HE	2.16	0.57
6:F:65:ALA:C	6:F:67:GLU:H	2.07	0.57
8:H:92:SER:HA	8:H:104:ILE:O	2.05	0.57
1:M:189:LEU:C	1:M:190:TRP:CD1	2.78	0.57
1:M:573:LYS:HB3	8:T:74:TYR:HA	1.86	0.57
1:M:1282:VAL:CG1	1:M:1285:ILE:HG13	2.34	0.57
2:N:268:ILE:HG13	2:N:269:VAL:N	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:73:SER:HB2	3:O:239:ILE:HG22	1.87	0.57
6:R:65:ALA:C	6:R:67:GLU:H	2.07	0.57
7:S:5:LEU:HD13	7:S:50:LEU:HD11	1.77	0.57
7:S:143:ASN:O	7:S:172:LEU:HB2	2.05	0.57
1:A:25:SER:CB	1:A:239:TRP:CD1	2.87	0.57
1:A:59:ARG:HB2	1:A:60:LEU:HA	1.86	0.57
1:A:1119:LEU:CD2	1:A:1314:THR:HG21	2.35	0.57
2:B:480:HIS:HD2	2:B:483:ARG:CZ	2.18	0.57
4:D:32:ILE:HD11	4:D:74:THR:HG23	1.83	0.57
4:D:66:ALA:HB1	4:D:69:LYS:HG2	1.85	0.57
4:D:84:ARG:HH21	4:D:87:LYS:CE	2.18	0.57
7:G:94:THR:CG2	8:T:2:SER:CA	2.78	0.57
9:I:49:GLN:NE2	9:I:51:SER:O	2.38	0.57
1:M:48:GLN:CG	1:M:50:PRO:HD3	2.35	0.57
1:M:263:ARG:CG	1:M:263:ARG:NH2	2.43	0.57
1:M:513:VAL:N	1:M:514:PRO:CD	2.66	0.57
1:M:597:ASP:HA	1:M:601:GLN:OE1	2.05	0.57
1:M:975:HIS:CE1	1:M:977:GLU:OE2	2.58	0.57
1:M:1492:VAL:CG1	4:P:75:TYR:OH	2.53	0.57
2:N:486:THR:N	2:N:487:PRO:CD	2.68	0.57
2:N:1061:MET:CE	2:N:1076:LEU:HD12	2.35	0.57
5:Q:59:PHE:O	5:Q:74:ILE:HG13	2.05	0.57
5:Q:60:TYR:HB3	5:Q:73:TYR:CD1	2.40	0.57
8:T:114:LEU:O	8:T:115:SER:C	2.43	0.57
1:A:252:VAL:HG22	2:B:1193:GLN:OE1	2.05	0.57
2:B:221:TYR:CB	2:B:243:LEU:HD13	2.35	0.57
2:B:331:ARG:O	2:B:332:GLU:C	2.43	0.57
2:B:508:VAL:HG13	2:B:510:PRO:HA	1.85	0.57
2:B:658:ASP:C	2:B:660:GLU:HB2	2.26	0.57
2:B:1073:GLN:OE1	2:B:1073:GLN:CA	2.53	0.57
3:C:73:SER:HB2	3:C:239:ILE:HG22	1.87	0.57
3:C:255:LYS:HD2	11:K:37:GLU:OE2	2.05	0.57
4:D:51:MET:O	4:D:55:MET:CG	2.53	0.57
5:E:97:HIS:HB2	5:E:99:HIS:HE1	1.69	0.57
7:G:151:THR:CA	7:G:160:ALA:CB	2.73	0.57
9:I:51:SER:O	9:I:52:ASN:CG	2.43	0.57
10:J:3:ILE:HD11	10:J:18:TRP:CD1	2.40	0.57
1:M:107:CYS:C	1:M:108:VAL:HG13	2.25	0.57
1:M:263:ARG:O	1:M:263:ARG:CG	2.52	0.57
1:M:368:ASP:OD1	1:M:649:LYS:CE	2.51	0.57
1:M:466:ILE:O	1:M:467:ARG:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:652:PHE:O	1:M:656:GLN:CB	2.53	0.57
1:M:816:PRO:HB2	2:N:689:MET:CE	2.34	0.57
2:N:216:PRO:N	2:N:217:SER:HB3	2.18	0.57
2:N:659:PRO:CA	2:N:660:GLU:O	2.50	0.57
2:N:705:GLU:OE1	2:N:707:LYS:CE	2.48	0.57
2:N:778:MET:SD	2:N:778:MET:O	2.63	0.57
8:T:7:LEU:HD21	8:T:110:LYS:HZ3	1.68	0.57
9:U:55:ASN:O	9:U:56:THR:C	2.42	0.57
1:A:312:ASN:HD21	1:A:330:SER:HB3	1.63	0.56
1:A:566:LEU:HD13	11:K:57:PHE:HE1	1.70	0.56
1:A:828:GLU:C	1:A:830:LEU:H	2.07	0.56
1:A:843:ILE:C	1:A:843:ILE:HD13	2.25	0.56
1:A:1458:ASN:O	1:A:1459:TYR:C	2.42	0.56
2:B:901:ILE:H	2:B:901:ILE:HD13	1.70	0.56
3:C:247:GLN:O	3:C:247:GLN:HG3	2.05	0.56
4:D:16:GLY:O	4:D:20:GLU:CG	2.47	0.56
7:G:58:ASP:O	7:G:59:LYS:HB2	2.05	0.56
9:I:108:PHE:O	9:I:110:PHE:N	2.37	0.56
12:L:54:THR:OG1	12:L:56:ARG:HG3	2.04	0.56
1:M:13:LEU:O	2:N:1181:GLN:O	2.22	0.56
1:M:116:LYS:HG2	1:M:117:ILE:N	2.18	0.56
1:M:231:ASN:C	1:M:233:GLN:H	2.07	0.56
1:M:275:ILE:HG12	1:M:305:HIS:CB	2.35	0.56
1:M:312:ASN:HD21	1:M:330:SER:HB3	1.63	0.56
1:M:328:LEU:O	1:M:329:LYS:C	2.44	0.56
1:M:605:ASN:ND2	8:T:26:ARG:HH12	2.03	0.56
1:M:843:ILE:C	1:M:843:ILE:HD13	2.25	0.56
1:M:1119:LEU:CD2	1:M:1314:THR:HG21	2.35	0.56
1:M:1497:VAL:O	1:M:1497:VAL:HG12	2.04	0.56
2:N:552:LEU:HD13	2:N:552:LEU:N	2.20	0.56
2:N:816:ILE:HG23	2:N:1001:ILE:HD12	1.85	0.56
2:N:831:ASN:HD21	2:N:833:ALA:H	1.52	0.56
2:N:847:THR:HG22	2:N:956:ARG:CB	2.34	0.56
2:N:1061:MET:HG3	2:N:1074:VAL:CG2	2.34	0.56
2:N:1073:GLN:OE1	2:N:1073:GLN:CA	2.53	0.56
1:A:151:ASP:CG	1:A:152:THR:N	2.58	0.56
1:A:350:ARG:HH11	2:B:1118:ARG:HB2	1.70	0.56
1:A:430:ILE:O	1:A:430:ILE:CG1	2.49	0.56
1:A:549:ARG:HH22	11:K:50:LEU:CG	2.18	0.56
1:A:824:MET:HB2	2:B:500:LEU:HB3	1.87	0.56
2:B:215:ALA:O	2:B:216:PRO:C	2.43	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:564:THR:O	2:B:575:VAL:O	2.23	0.56
3:C:78:GLU:N	3:C:79:PRO:HD3	2.20	0.56
1:M:155:SER:HA	1:M:169:ASN:CA	2.29	0.56
1:M:205:LYS:CG	1:M:206:ARG:N	2.37	0.56
1:M:638:THR:HG23	1:M:965:ARG:NH2	2.20	0.56
1:M:945:LEU:O	1:M:949:ILE:CG2	2.52	0.56
1:M:946:CYS:SG	1:M:949:ILE:HD11	2.45	0.56
2:N:211:PHE:CD2	2:N:384:ARG:HD3	2.41	0.56
2:N:1178:ARG:HE	7:S:42:GLN:HE22	1.50	0.56
4:P:61:TYR:CD2	7:S:105:GLY:HA2	2.40	0.56
10:V:4:PRO:HG2	10:V:48:MET:HE2	1.87	0.56
1:A:8:PRO:HG2	2:B:1148:ARG:CD	2.35	0.56
1:A:62:THR:CB	1:A:75:THR:HG21	2.35	0.56
1:A:100:LYS:NZ	1:A:1420:ALA:HB1	2.19	0.56
1:A:147:LYS:CG	1:A:148:MET:H	2.16	0.56
1:A:148:MET:C	1:A:179:GLN:HA	2.25	0.56
1:A:169:ASN:C	1:A:169:ASN:HD22	2.06	0.56
1:A:521:GLN:O	1:A:1370:ASN:HB2	2.06	0.56
1:A:567:PRO:CG	1:A:586:LEU:HD11	2.36	0.56
1:A:675:THR:O	1:A:768:SER:HB3	2.05	0.56
1:A:975:HIS:CE1	1:A:977:GLU:OE2	2.58	0.56
1:A:1103:ARG:O	1:A:1106:GLU:HB2	2.05	0.56
1:A:1145:THR:HG23	1:A:1146:LEU:N	2.20	0.56
1:A:1180:PRO:O	1:A:1182:GLU:N	2.38	0.56
2:B:31:ALA:N	2:B:482:ARG:HH21	2.02	0.56
2:B:486:THR:HG21	2:B:521:LEU:CB	2.30	0.56
2:B:659:PRO:CA	2:B:660:GLU:O	2.50	0.56
2:B:845:TYR:CD2	2:B:956:ARG:HD3	2.40	0.56
2:B:875:LYS:HE3	3:O:265:GLU:OE2	2.05	0.56
2:B:1054:GLN:O	2:B:1056:ARG:N	2.38	0.56
5:E:21:LEU:HD21	5:E:25:ARG:NE	2.21	0.56
5:E:199:THR:HG22	5:E:200:SER:C	2.25	0.56
7:G:46:ILE:O	7:G:46:ILE:CG2	2.49	0.56
7:G:51:ASP:C	7:G:55:ILE:HD11	2.26	0.56
7:G:143:ASN:O	7:G:172:LEU:HB2	2.05	0.56
8:H:36:MET:HA	8:H:36:MET:HE3	1.87	0.56
8:H:74:TYR:HB3	8:H:123:LEU:HB2	1.87	0.56
1:M:11:VAL:HG11	2:N:1179:PHE:CB	2.34	0.56
1:M:25:SER:CB	1:M:239:TRP:CD1	2.87	0.56
1:M:468:VAL:HG22	1:M:468:VAL:O	2.05	0.56
1:M:645:PRO:C	1:M:648:CYS:HB3	2.24	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:773:GLN:HE21	1:M:780:ARG:HB2	1.69	0.56
1:M:775:ILE:HG21	1:M:1089:TYR:CD2	2.39	0.56
1:M:809:SER:O	1:M:811:LEU:N	2.30	0.56
1:M:857:ARG:CG	1:M:857:ARG:NH1	2.58	0.56
1:M:948:PHE:C	1:M:950:PHE:N	2.59	0.56
1:M:1103:ARG:O	1:M:1106:GLU:HB2	2.05	0.56
1:M:1228:PHE:HE2	1:M:1246:ILE:CD1	2.13	0.56
1:M:1283:PRO:O	1:M:1284:ASN:ND2	2.39	0.56
1:M:1394:GLY:O	1:M:1395:ILE:C	2.43	0.56
1:M:1450:TYR:CE2	6:R:125:ARG:CD	2.87	0.56
2:N:32:ARG:HA	2:N:35:LEU:HD12	1.88	0.56
2:N:234:ARG:HH21	2:N:408:ARG:HH22	1.47	0.56
2:N:269:VAL:HB	2:N:307:ALA:HB2	1.88	0.56
2:N:273:ARG:NE	2:N:310:ILE:CD1	2.60	0.56
2:N:281:ARG:HG3	9:U:6:TYR:CD1	2.41	0.56
2:N:281:ARG:CB	9:U:6:TYR:CD1	2.88	0.56
2:N:296:MET:HE1	2:N:372:LEU:C	2.25	0.56
2:N:421:CYS:HA	2:N:425:ASN:HB2	1.87	0.56
2:N:488:ILE:HG21	2:N:490:ARG:H	1.70	0.56
2:N:658:ASP:CB	2:N:659:PRO:CD	2.83	0.56
2:N:774:TYR:CE1	2:N:775:GLN:HG2	2.40	0.56
2:N:845:TYR:CD2	2:N:956:ARG:HD3	2.40	0.56
2:N:901:ILE:HD11	2:N:928:THR:OG1	2.05	0.56
3:O:65:ARG:NH1	3:O:145:ILE:HA	2.18	0.56
4:P:23:ASP:HB3	4:P:87:LYS:HD3	1.86	0.56
4:P:66:ALA:CB	4:P:69:LYS:HG2	2.35	0.56
4:P:129:THR:C	4:P:133:PHE:HD2	2.09	0.56
7:S:90:ALA:HB2	7:S:104:ILE:CG1	2.35	0.56
7:S:114:HIS:CD2	7:S:115:LEU:HG	2.40	0.56
12:X:24:CYS:HA	12:X:49:MET:HG2	1.86	0.56
1:A:42:THR:HG21	1:A:55:LEU:HB2	1.73	0.56
1:A:311:ASP:HB2	1:A:314:ILE:CD1	2.36	0.56
1:A:645:PRO:C	1:A:648:CYS:HB3	2.24	0.56
1:A:773:GLN:HB2	1:A:805:PHE:CB	2.34	0.56
1:A:1009:ILE:O	5:E:162:ARG:NH2	2.39	0.56
1:A:1166:ILE:HA	1:A:1167:GLU:HB3	0.63	0.56
2:B:34:GLN:HB3	2:B:35:LEU:CB	2.35	0.56
2:B:552:LEU:HD13	2:B:552:LEU:N	2.20	0.56
2:B:790:LYS:O	2:B:792:LEU:N	2.37	0.56
2:B:797:SER:O	2:B:801:LEU:HD12	2.06	0.56
5:E:60:TYR:HB3	5:E:73:TYR:CD1	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:97:LYS:NZ	7:G:124:PRO:HG3	2.20	0.56
8:H:36:MET:O	8:H:37:ASN:O	2.24	0.56
1:M:16:VAL:CG2	2:N:1182:VAL:CG2	2.84	0.56
1:M:162:ASP:HA	1:M:165:ASN:CA	2.36	0.56
1:M:166:PRO:CB	1:M:168:ALA:CB	2.78	0.56
1:M:388:PRO:HG3	1:M:434:TYR:CE2	2.38	0.56
1:M:472:SER:OG	2:N:964:GLN:NE2	2.39	0.56
1:M:517:ILE:HG13	1:M:640:TRP:CD1	2.38	0.56
2:N:49:ILE:HD11	2:N:403:PHE:CD2	2.40	0.56
2:N:105:ARG:HB2	2:N:106:LEU:HD22	1.86	0.56
2:N:212:LYS:NZ	2:N:381:PRO:HG2	2.20	0.56
2:N:605:ILE:CG2	9:U:61:ASP:HB3	2.36	0.56
3:O:240:PRO:O	3:O:243:GLU:HB2	2.05	0.56
4:P:22:GLU:OE2	7:S:5:LEU:C	2.44	0.56
5:Q:199:THR:HG22	5:Q:200:SER:C	2.25	0.56
7:S:79:LEU:HD12	7:S:81:ARG:NH2	2.19	0.56
8:T:48:PRO:O	8:T:49:LEU:HD23	2.05	0.56
8:T:80:VAL:HG13	8:T:95:VAL:CG2	2.34	0.56
1:A:116:LYS:CE	1:A:140:VAL:HG13	2.35	0.56
1:A:605:ASN:ND2	8:H:26:ARG:HH12	2.03	0.56
1:A:972:GLN:HE21	1:A:973:ILE:HD13	1.71	0.56
2:B:576:HIS:CD2	2:B:577:ARG:O	2.58	0.56
2:B:1073:GLN:HE21	3:C:192:TYR:HA	1.70	0.56
5:E:59:PHE:O	5:E:74:ILE:HG13	2.05	0.56
5:E:142:HIS:CD2	5:E:144:LEU:HB2	2.40	0.56
7:G:5:LEU:HD11	7:G:50:LEU:HD12	1.74	0.56
9:I:81:HIS:HD1	9:I:82:GLU:HG3	1.71	0.56
1:M:148:MET:C	1:M:149:VAL:CG2	2.74	0.56
1:M:275:ILE:HD13	1:M:306:VAL:HG23	1.86	0.56
1:M:521:GLN:HG3	1:M:1074:SER:CB	2.20	0.56
1:M:571:ILE:HG12	1:M:573:LYS:CE	2.20	0.56
1:M:816:PRO:CB	2:N:689:MET:HE1	2.36	0.56
1:M:1009:ILE:O	5:Q:162:ARG:NH2	2.39	0.56
1:M:1299:ILE:HG22	1:M:1300:GLU:N	2.20	0.56
2:N:685:VAL:HG13	2:N:728:THR:HG21	1.86	0.56
7:S:97:LYS:NZ	7:S:124:PRO:HG3	2.20	0.56
8:T:92:SER:HA	8:T:104:ILE:O	2.05	0.56
9:U:51:SER:O	9:U:52:ASN:CG	2.43	0.56
1:A:178:ALA:O	1:A:179:GLN:HB2	2.04	0.56
1:A:816:PRO:C	1:A:818:GLU:N	2.59	0.56
1:A:989:ILE:HD11	1:A:1031:VAL:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1276:SER:CA	1:A:1277:ILE:CG2	2.30	0.56
1:A:1465:VAL:HG12	1:A:1466:PRO:CD	2.35	0.56
2:B:488:ILE:HD12	2:B:490:ARG:CG	2.36	0.56
2:B:1073:GLN:OE1	2:B:1073:GLN:HA	2.06	0.56
7:G:115:LEU:CD2	7:G:163:THR:HG22	2.35	0.56
8:H:48:PRO:O	8:H:49:LEU:HD23	2.05	0.56
1:M:62:THR:HG22	1:M:63:ILE:N	2.21	0.56
1:M:255:SER:OG	1:M:256:ILE:N	2.38	0.56
1:M:318:PRO:O	1:M:319:GLN:HB2	2.04	0.56
1:M:566:LEU:HD13	11:W:57:PHE:HE1	1.70	0.56
1:M:969:ASN:HD22	1:M:969:ASN:N	2.02	0.56
1:M:1119:LEU:CG	1:M:1314:THR:CB	2.74	0.56
2:N:472:TYR:CG	2:N:1085:LYS:HE2	2.41	0.56
2:N:716:VAL:HG12	2:N:716:VAL:O	2.04	0.56
3:O:255:LYS:HD2	11:W:37:GLU:OE2	2.05	0.56
4:P:51:MET:O	4:P:55:MET:CG	2.53	0.56
7:S:50:LEU:O	7:S:54:THR:OG1	2.24	0.56
7:S:95:VAL:CG1	7:S:131:TYR:CE2	2.88	0.56
9:U:58:VAL:C	9:U:60:HIS:N	2.58	0.56
10:V:3:ILE:HD11	10:V:18:TRP:CD1	2.40	0.56
1:A:114:LYS:O	1:A:115:LEU:C	2.44	0.56
1:A:1062:SER:HA	1:A:1063:PRO:O	2.04	0.56
2:B:105:ARG:HB2	2:B:106:LEU:HD22	1.86	0.56
2:B:245:ALA:HA	2:B:253:GLN:HG3	1.88	0.56
2:B:269:VAL:HB	2:B:307:ALA:HB2	1.88	0.56
2:B:605:ILE:CG2	9:I:61:ASP:HB3	2.36	0.56
9:I:97:MET:C	9:I:99:LEU:H	2.09	0.56
1:M:217:PHE:O	1:M:220:ILE:HG13	2.06	0.56
1:M:252:VAL:HG22	2:N:1193:GLN:OE1	2.05	0.56
1:M:414:ASP:OD1	1:M:433:ARG:NE	2.39	0.56
1:M:429:ASP:O	1:M:430:ILE:C	2.44	0.56
1:M:567:PRO:CG	1:M:586:LEU:HD11	2.36	0.56
1:M:976:LEU:HD22	1:M:980:LYS:HG3	1.88	0.56
1:M:1150:THR:HG22	9:U:48:LEU:HD22	1.87	0.56
2:N:215:ALA:O	2:N:216:PRO:C	2.43	0.56
2:N:288:CYS:CB	2:N:297:LEU:HD21	2.27	0.56
2:N:654:ARG:NH1	2:N:657:ILE:HG21	2.21	0.56
2:N:752:GLN:O	2:N:752:GLN:HG2	2.06	0.56
2:N:1022:LYS:O	2:N:1025:ALA:N	2.39	0.56
2:N:1163:TYR:O	2:N:1163:TYR:HD1	1.87	0.56
6:R:125:ARG:HD3	6:R:133:TYR:CD1	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:W:29:ALA:HB2	11:W:75:GLN:HA	1.87	0.56
1:A:48:GLN:CB	1:A:50:PRO:HD3	2.36	0.56
1:A:95:ILE:O	1:A:98:LEU:N	2.38	0.56
1:A:328:LEU:O	1:A:329:LYS:C	2.44	0.56
1:A:468:VAL:O	1:A:468:VAL:HG22	2.05	0.56
1:A:778:GLY:HA2	1:A:1091:GLY:O	2.06	0.56
1:A:780:ARG:NH1	1:A:803:ARG:CZ	2.69	0.56
1:A:781:ILE:O	1:A:781:ILE:HG23	2.05	0.56
1:A:835:VAL:C	1:A:837:THR:H	2.09	0.56
1:A:855:MET:HG3	1:A:1066:MET:H	1.70	0.56
1:A:1013:VAL:O	1:A:1017:ALA:HB2	2.06	0.56
1:A:1371:TYR:CD2	1:A:1371:TYR:O	2.59	0.56
2:B:605:ILE:HG22	9:I:61:ASP:HB3	1.86	0.56
2:B:778:MET:SD	2:B:778:MET:O	2.63	0.56
2:B:854:LYS:HZ2	2:B:950:LEU:HD11	1.70	0.56
7:G:90:ALA:HB2	7:G:104:ILE:CG1	2.36	0.56
7:G:145:ARG:C	7:G:146:LEU:HD12	2.27	0.56
9:I:6:TYR:O	9:I:14:LEU:HG	2.06	0.56
1:M:488:PHE:C	1:M:490:GLY:H	2.09	0.56
1:M:573:LYS:CE	8:T:74:TYR:CZ	2.87	0.56
1:M:780:ARG:NH1	1:M:803:ARG:CZ	2.69	0.56
1:M:846:ARG:HH12	1:M:1391:THR:HA	1.60	0.56
1:M:1492:VAL:O	1:M:1496:PHE:CD2	2.59	0.56
2:N:296:MET:SD	2:N:376:LEU:CD1	2.94	0.56
2:N:488:ILE:HD12	2:N:490:ARG:CG	2.35	0.56
2:N:688:ALA:HB3	2:N:730:CYS:HB2	1.86	0.56
2:N:759:GLN:CG	2:N:972:ARG:HA	2.35	0.56
2:N:792:LEU:HD13	2:N:1021:SER:HB2	1.88	0.56
2:N:797:SER:O	2:N:801:LEU:HD12	2.06	0.56
2:N:887:LEU:HD13	2:N:953:VAL:HG11	1.87	0.56
2:N:1054:GLN:HB3	2:N:1056:ARG:CD	2.36	0.56
2:N:1073:GLN:OE1	2:N:1073:GLN:HA	2.06	0.56
3:O:168:HIS:O	3:O:170:LYS:N	2.39	0.56
5:Q:142:HIS:CD2	5:Q:144:LEU:HB2	2.40	0.56
1:A:350:ARG:CD	2:B:1117:LEU:O	2.51	0.56
1:A:852:GLU:HB3	1:A:1430:ILE:CD1	2.36	0.56
1:A:1164:THR:CG2	1:A:1242:ARG:HH22	2.12	0.56
1:A:1278:SER:O	1:A:1279:LEU:CB	2.50	0.56
2:B:552:LEU:HD13	2:B:552:LEU:H	1.70	0.56
2:B:1054:GLN:HB3	2:B:1056:ARG:CD	2.36	0.56
7:G:114:HIS:CD2	7:G:115:LEU:HG	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:144:VAL:HG12	7:G:145:ARG:N	2.20	0.56
9:I:58:VAL:C	9:I:60:HIS:N	2.58	0.56
11:K:29:ALA:HB2	11:K:75:GLN:HA	1.87	0.56
1:M:390:ASN:O	1:M:393:GLN:N	2.39	0.56
1:M:512:MET:C	1:M:514:PRO:CD	2.75	0.56
1:M:828:GLU:C	1:M:830:LEU:H	2.07	0.56
1:M:945:LEU:HD23	1:M:945:LEU:C	2.25	0.56
1:M:1371:TYR:O	1:M:1371:TYR:CD2	2.59	0.56
2:N:190:ILE:HD13	2:N:447:LEU:HD13	1.88	0.56
2:N:281:ARG:CA	9:U:6:TYR:CE1	2.87	0.56
2:N:633:GLU:HG3	2:N:641:ARG:NH2	2.19	0.56
2:N:941:VAL:CG1	2:N:955:VAL:HG13	2.34	0.56
4:P:85:PHE:HZ	4:P:115:ILE:HG12	1.63	0.56
7:S:58:ASP:O	7:S:59:LYS:HB2	2.05	0.56
7:S:93:THR:CG2	7:S:101:PHE:O	2.29	0.56
8:T:79:LYS:HD3	8:T:81:TYR:CE1	2.39	0.56
1:A:16:VAL:HG23	2:B:1182:VAL:HG22	1.87	0.56
1:A:62:THR:HG22	1:A:63:ILE:N	2.21	0.56
1:A:152:THR:O	1:A:174:GLY:HA3	2.06	0.56
1:A:343:ARG:NE	1:A:1409:GLU:OE2	2.39	0.56
1:A:781:ILE:CG1	1:A:821:PHE:HE2	2.18	0.56
1:A:1009:ILE:HG22	5:E:162:ARG:HH21	1.67	0.56
1:A:1387:LEU:HD12	1:A:1387:LEU:O	2.06	0.56
1:A:1388:MET:HE1	1:A:1395:ILE:HD13	1.87	0.56
2:B:42:VAL:H	2:B:43:GLN:C	2.09	0.56
2:B:159:LEU:HD12	2:B:187:TYR:CE1	2.40	0.56
2:B:472:TYR:CG	2:B:1085:LYS:HE2	2.41	0.56
2:B:715:ARG:HH11	2:B:715:ARG:CG	2.13	0.56
2:B:901:ILE:HD11	2:B:928:THR:OG1	2.05	0.56
3:C:168:HIS:C	3:C:170:LYS:H	2.09	0.56
4:D:61:TYR:CD2	7:G:105:GLY:HA2	2.40	0.56
8:H:114:LEU:O	8:H:115:SER:C	2.43	0.56
1:M:67:PHE:CD1	1:M:67:PHE:N	2.74	0.56
1:M:71:THR:CG2	1:M:82:HIS:NE2	2.68	0.56
1:M:167:SER:CA	1:M:168:ALA:CB	2.72	0.56
1:M:177:ALA:HB3	1:M:179:GLN:CD	2.27	0.56
1:M:375:SER:HB3	11:W:2:ASN:ND2	2.14	0.56
1:M:378:LYS:CA	1:M:441:HIS:CD2	2.82	0.56
1:M:1139:THR:OG1	1:M:1208:LYS:CG	2.53	0.56
1:M:1387:LEU:O	1:M:1387:LEU:HD12	2.06	0.56
2:N:106:LEU:C	2:N:108:ASN:H	2.10	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:159:LEU:HD12	2:N:187:TYR:CE1	2.40	0.56
2:N:317:LEU:HD22	2:N:335:LEU:HD22	1.88	0.56
2:N:391:ARG:NH1	2:N:615:ASP:HB3	2.20	0.56
2:N:552:LEU:HD13	2:N:552:LEU:H	1.70	0.56
2:N:866:PRO:HG2	2:N:879:TYR:CE1	2.41	0.56
2:N:1085:LYS:O	2:N:1086:HIS:CG	2.59	0.56
7:S:114:HIS:CD2	7:S:115:LEU:CD2	2.89	0.56
7:S:144:VAL:HG12	7:S:145:ARG:N	2.20	0.56
8:T:36:MET:HA	8:T:36:MET:HE3	1.87	0.56
10:V:10:CYS:SG	10:V:44:CYS:SG	3.04	0.56
11:W:76:THR:HG21	11:W:85:VAL:HG21	1.87	0.56
1:A:510:ILE:HG13	1:A:511:THR:HG22	1.88	0.55
1:A:594:LEU:O	1:A:612:LEU:HA	2.07	0.55
1:A:605:ASN:CG	8:H:26:ARG:HH22	2.08	0.55
1:A:728:LEU:HB3	1:A:805:PHE:HE1	1.71	0.55
1:A:810:TYR:HD2	2:B:750:HIS:O	1.89	0.55
1:A:816:PRO:CG	2:B:689:MET:HE1	2.37	0.55
1:A:948:PHE:C	1:A:950:PHE:N	2.59	0.55
1:A:1119:LEU:CD1	1:A:1121:ILE:HG13	2.36	0.55
1:A:1261:GLU:O	1:A:1263:ASP:HB2	2.06	0.55
1:A:1299:ILE:HG22	1:A:1300:GLU:N	2.20	0.55
2:B:329:VAL:N	2:B:330:THR:HA	2.11	0.55
2:B:654:ARG:NH1	2:B:657:ILE:HG21	2.21	0.55
2:B:814:VAL:HG22	2:B:999:ILE:HG12	1.87	0.55
2:B:831:ASN:HD21	2:B:833:ALA:H	1.52	0.55
2:B:1022:LYS:O	2:B:1025:ALA:N	2.39	0.55
4:D:130:LEU:C	4:D:132:LYS:H	2.08	0.55
7:G:90:ALA:O	7:G:143:ASN:HA	2.06	0.55
7:G:151:THR:CG2	7:G:160:ALA:CB	2.78	0.55
7:G:152:ARG:N	7:G:159:PHE:O	2.39	0.55
8:H:60:THR:HG23	8:H:62:ASN:H	1.71	0.55
9:I:78:CYS:O	9:I:79:HIS:CB	2.44	0.55
11:K:81:SER:HB3	11:K:84:GLN:H	1.70	0.55
11:K:118:VAL:C	11:K:119:GLU:CG	2.74	0.55
1:M:145:LYS:O	1:M:148:MET:HE1	2.05	0.55
1:M:201:ASP:HB3	1:M:204:GLU:OE2	2.06	0.55
1:M:432:LEU:C	1:M:436:TRP:CZ2	2.77	0.55
1:M:675:THR:O	1:M:768:SER:HB3	2.05	0.55
1:M:835:VAL:C	1:M:837:THR:H	2.09	0.55
1:M:855:MET:HG3	1:M:1066:MET:H	1.70	0.55
1:M:1105:LYS:O	1:M:1109:ASN:ND2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:245:ALA:HA	2:N:253:GLN:HG3	1.88	0.55
2:N:561:PRO:HA	2:N:563:ALA:HB3	1.88	0.55
2:N:562:ASN:HA	2:N:563:ALA:HB3	1.88	0.55
2:N:901:ILE:HD13	2:N:901:ILE:H	1.70	0.55
4:P:57:LYS:HD3	7:S:106:PRO:HA	1.88	0.55
5:Q:118:ILE:O	5:Q:120:THR:N	2.36	0.55
7:S:147:LYS:HG3	7:S:169:LEU:HD21	1.88	0.55
1:A:67:PHE:CD1	1:A:67:PHE:N	2.74	0.55
1:A:809:SER:O	1:A:811:LEU:N	2.30	0.55
1:A:1105:LYS:O	1:A:1109:ASN:ND2	2.39	0.55
1:A:1496:PHE:CG	4:D:29:GLU:HG3	2.42	0.55
2:B:207:ILE:HD13	2:B:209:GLN:CB	2.36	0.55
2:B:561:PRO:HA	2:B:563:ALA:HB3	1.88	0.55
2:B:562:ASN:HA	2:B:563:ALA:HB3	1.88	0.55
4:D:10:ALA:HB1	7:G:85:GLY:CA	2.31	0.55
7:G:14:LEU:HD22	7:G:27:LEU:CD2	2.30	0.55
9:I:10:CYS:O	9:I:11:ASN:C	2.44	0.55
9:I:37:ILE:CG2	9:I:38:ALA:N	2.69	0.55
1:M:88:LEU:HG	1:M:243:THR:O	2.06	0.55
1:M:95:ILE:O	1:M:98:LEU:N	2.39	0.55
1:M:116:LYS:HD3	1:M:116:LYS:N	2.15	0.55
1:M:571:ILE:HG23	1:M:573:LYS:HG3	1.89	0.55
1:M:781:ILE:HG22	1:M:803:ARG:HB3	1.88	0.55
1:M:989:ILE:HD11	1:M:1031:VAL:HG22	1.88	0.55
1:M:1013:VAL:O	1:M:1017:ALA:HB2	2.06	0.55
1:M:1146:LEU:HG	1:M:1274:LEU:HA	1.89	0.55
2:N:273:ARG:HH11	2:N:310:ILE:CG1	2.20	0.55
2:N:605:ILE:HG22	9:U:61:ASP:HB3	1.86	0.55
3:O:78:GLU:N	3:O:79:PRO:HD3	2.20	0.55
4:P:25:LEU:N	7:S:3:PHE:O	2.39	0.55
5:Q:101:THR:CG2	5:Q:126:THR:H	2.19	0.55
8:T:36:MET:O	8:T:37:ASN:O	2.23	0.55
1:A:129:ARG:C	1:A:131:ARG:H	2.10	0.55
1:A:132:ASP:HB3	1:A:133:PRO:HD2	1.88	0.55
1:A:605:ASN:HB2	1:A:606:PRO:O	2.06	0.55
1:A:1043:VAL:HG13	1:A:1044:ALA:N	2.21	0.55
1:A:1173:VAL:O	1:A:1177:PHE:HD2	1.83	0.55
1:A:1459:TYR:O	1:A:1460:SER:O	2.24	0.55
2:B:273:ARG:HH11	2:B:310:ILE:HD12	1.72	0.55
2:B:1207:LYS:HG2	2:B:1208:ASN:N	2.19	0.55
3:C:240:PRO:O	3:C:243:GLU:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:134:GLU:O	7:G:136:GLN:N	2.39	0.55
1:M:39:PHE:O	1:M:40:PRO:C	2.45	0.55
1:M:114:LYS:O	1:M:115:LEU:C	2.44	0.55
1:M:457:HIS:CD2	1:M:1077:GLU:OE2	2.59	0.55
1:M:927:VAL:O	1:M:929:ASP:N	2.40	0.55
2:N:243:LEU:O	2:N:254:THR:O	2.25	0.55
2:N:576:HIS:CD2	2:N:577:ARG:O	2.58	0.55
2:N:814:VAL:HG22	2:N:999:ILE:HG12	1.87	0.55
2:N:1067:GLY:N	3:O:30:ASN:HD22	2.03	0.55
3:O:247:GLN:HG3	3:O:247:GLN:O	2.05	0.55
7:S:14:LEU:HD22	7:S:27:LEU:CD2	2.30	0.55
7:S:90:ALA:O	7:S:143:ASN:HA	2.06	0.55
1:A:7:SER:N	1:A:8:PRO:HD3	2.20	0.55
1:A:88:LEU:CG	1:A:243:THR:O	2.54	0.55
1:A:512:MET:C	1:A:514:PRO:CD	2.75	0.55
1:A:532:ASP:HB2	2:B:818:CYS:SG	2.47	0.55
1:A:573:LYS:HB2	1:A:574:PRO:CD	2.33	0.55
1:A:1020:LEU:O	1:A:1023:ILE:HG12	2.07	0.55
1:A:1496:PHE:HD2	4:D:33:LEU:HD11	1.71	0.55
2:B:158:MET:HB2	2:B:188:PHE:CE2	2.42	0.55
3:C:65:ARG:NH1	3:C:145:ILE:HA	2.18	0.55
4:D:22:GLU:CD	7:G:4:PHE:HB3	2.27	0.55
5:E:79:GLU:HB2	5:E:86:GLU:OE1	2.06	0.55
5:E:101:THR:CG2	5:E:126:THR:N	2.70	0.55
5:E:118:ILE:O	5:E:120:THR:N	2.36	0.55
7:G:147:LYS:HZ3	7:G:166:GLU:HG3	1.71	0.55
9:I:6:TYR:O	9:I:14:LEU:CD1	2.55	0.55
1:M:7:SER:N	1:M:8:PRO:HD3	2.20	0.55
1:M:48:GLN:CB	1:M:50:PRO:HD3	2.36	0.55
1:M:62:THR:CG2	1:M:75:THR:CG2	2.60	0.55
1:M:112:CYS:HB3	1:M:175:CYS:SG	2.47	0.55
1:M:405:HIS:O	1:M:407:GLY:N	2.30	0.55
1:M:1119:LEU:CD1	1:M:1121:ILE:HG13	2.36	0.55
2:N:212:LYS:HZ2	2:N:381:PRO:HG2	1.70	0.55
2:N:991:SER:CB	2:N:1062:TYR:H	2.14	0.55
2:N:1054:GLN:O	2:N:1056:ARG:N	2.39	0.55
3:O:215:ARG:O	3:O:216:GLU:HB2	2.06	0.55
8:T:60:THR:HG23	8:T:62:ASN:H	1.71	0.55
1:A:2:SER:HB2	7:G:65:GLY:O	2.04	0.55
1:A:24:LEU:CD2	2:B:1201:ALA:HB2	2.37	0.55
1:A:162:ASP:HA	1:A:165:ASN:CA	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:873:ALA:HB3	1:A:876:GLU:N	2.22	0.55
1:A:1146:LEU:HG	1:A:1274:LEU:HA	1.89	0.55
1:A:1403:LEU:HB3	1:A:1432:GLU:CG	2.37	0.55
1:A:1425:ASP:C	1:A:1427:CYS:H	2.10	0.55
1:A:1467:THR:OG1	1:A:1468:LEU:N	2.35	0.55
2:B:273:ARG:HH11	2:B:310:ILE:CG1	2.20	0.55
2:B:281:ARG:HG3	9:I:6:TYR:CD1	2.40	0.55
2:B:481:LEU:O	2:B:482:ARG:HG2	2.07	0.55
2:B:1085:LYS:O	2:B:1086:HIS:CG	2.59	0.55
2:B:1095:ARG:CG	2:B:1096:ALA:N	2.70	0.55
3:C:221:ASN:ND2	3:C:224:GLU:HG3	2.22	0.55
4:D:86:HIS:O	4:D:88:PHE:N	2.40	0.55
7:G:14:LEU:CD1	7:G:30:LYS:HZ2	2.20	0.55
9:I:59:SER:C	9:I:61:ASP:N	2.60	0.55
11:K:48:GLN:HG3	11:K:93:LEU:HD21	1.89	0.55
1:M:16:VAL:HG23	2:N:1182:VAL:HG22	1.87	0.55
1:M:30:ARG:CG	1:M:244:VAL:HG21	2.34	0.55
1:M:236:ARG:HD2	1:M:239:TRP:CH2	2.42	0.55
1:M:338:LYS:CG	1:M:343:ARG:HD2	2.35	0.55
1:M:922:GLU:HB3	1:M:923:ASN:C	2.27	0.55
1:M:972:GLN:HE21	1:M:973:ILE:HD13	1.71	0.55
1:M:1170:LYS:N	1:M:1170:LYS:CD	2.69	0.55
1:M:1180:PRO:O	1:M:1182:GLU:N	2.38	0.55
1:M:1253:ALA:CB	1:M:1254:GLU:CA	2.81	0.55
1:M:1496:PHE:HZ	4:P:75:TYR:CE2	2.23	0.55
2:N:34:GLN:HB3	2:N:35:LEU:CB	2.35	0.55
2:N:82:ILE:HD11	2:N:115:LEU:HG	1.88	0.55
2:N:747:PHE:CE2	2:N:1016:VAL:HG11	2.42	0.55
3:O:221:ASN:ND2	3:O:224:GLU:HG3	2.22	0.55
4:P:132:LYS:N	4:P:134:GLN:HB2	2.21	0.55
5:Q:79:GLU:HB2	5:Q:86:GLU:OE1	2.06	0.55
7:S:6:LYS:HG2	7:S:7:GLU:H	1.71	0.55
7:S:134:GLU:O	7:S:136:GLN:N	2.39	0.55
8:T:74:TYR:HB3	8:T:123:LEU:HB2	1.87	0.55
8:T:111:LEU:C	8:T:113:ARG:N	2.56	0.55
9:U:23:ARG:O	9:U:24:VAL:HG23	2.06	0.55
10:V:35:LEU:HD12	10:V:36:ASP:N	2.21	0.55
11:W:118:VAL:CG2	11:W:119:GLU:N	2.37	0.55
1:A:16:VAL:CG2	2:B:1182:VAL:CG2	2.84	0.55
1:A:414:ASP:OD1	1:A:433:ARG:NE	2.39	0.55
1:A:605:ASN:OD1	8:H:101:LEU:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:776:VAL:HA	1:A:828:GLU:OE2	2.05	0.55
1:A:1461:LEU:HD12	1:A:1461:LEU:N	2.21	0.55
2:B:301:LYS:N	2:B:302:PRO:HD2	2.22	0.55
2:B:406:LEU:HD13	2:B:439:ILE:HG22	1.89	0.55
2:B:421:CYS:HA	2:B:425:ASN:HB2	1.87	0.55
2:B:1103:LEU:O	2:B:1190:LEU:HD11	2.05	0.55
4:D:22:GLU:OE1	7:G:6:LYS:HB2	2.06	0.55
4:D:25:LEU:N	7:G:3:PHE:O	2.39	0.55
7:G:6:LYS:HG2	7:G:7:GLU:H	1.72	0.55
7:G:50:LEU:O	7:G:54:THR:OG1	2.24	0.55
7:G:146:LEU:HD23	7:G:162:ALA:HB3	1.88	0.55
10:J:35:LEU:HD12	10:J:36:ASP:N	2.21	0.55
12:L:55:LYS:N	12:L:56:ARG:HB2	2.22	0.55
1:M:433:ARG:HH11	1:M:435:GLY:CA	2.19	0.55
1:M:522:SER:O	1:M:524:LYS:HG2	2.06	0.55
1:M:781:ILE:HG13	1:M:821:PHE:HE2	1.70	0.55
1:M:785:PHE:HZ	1:M:791:PRO:CG	2.17	0.55
1:M:1126:TRP:HB2	1:M:1127:ILE:HG22	1.87	0.55
1:M:1282:VAL:HB	1:M:1285:ILE:CD1	2.28	0.55
1:M:1338:PHE:O	1:M:1339:VAL:C	2.45	0.55
2:N:247:ASN:C	2:N:249:GLU:H	2.10	0.55
2:N:391:ARG:HG2	2:N:618:ARG:NH2	2.19	0.55
2:N:564:THR:O	2:N:575:VAL:O	2.24	0.55
2:N:658:ASP:C	2:N:660:GLU:HB2	2.26	0.55
3:O:34:ARG:NH1	11:W:39:HIS:HB2	2.22	0.55
7:S:146:LEU:HD23	7:S:162:ALA:HB3	1.89	0.55
8:T:108:HIS:HB3	8:T:111:LEU:HD22	1.88	0.55
9:U:81:HIS:HD1	9:U:82:GLU:HG3	1.71	0.55
9:U:97:MET:C	9:U:99:LEU:H	2.09	0.55
11:W:44:MET:O	11:W:46:ALA:N	2.36	0.55
1:A:94:HIS:H	1:A:98:LEU:CG	2.19	0.55
1:A:237:PRO:C	1:A:239:TRP:H	2.10	0.55
1:A:395:GLN:NE2	1:A:431:PRO:O	2.40	0.55
1:A:429:ASP:O	1:A:430:ILE:C	2.44	0.55
1:A:472:SER:OG	2:B:964:GLN:NE2	2.39	0.55
1:A:846:ARG:HH11	1:A:1392:ARG:N	2.02	0.55
1:A:918:GLU:O	1:A:981:PRO:HB2	2.07	0.55
1:A:922:GLU:HB3	1:A:923:ASN:C	2.27	0.55
1:A:1142:GLU:O	1:A:1144:THR:HG23	2.07	0.55
1:A:1442:MET:HA	1:A:1442:MET:CE	2.37	0.55
2:B:406:LEU:HB3	2:B:439:ILE:HG22	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:752:GLN:O	2:B:752:GLN:HG2	2.06	0.55
2:B:792:LEU:HD13	2:B:1021:SER:HB2	1.88	0.55
3:C:34:ARG:NH1	11:K:39:HIS:HB2	2.22	0.55
5:E:89:THR:HG23	5:E:90:PHE:HD1	1.72	0.55
7:G:93:THR:CG2	7:G:101:PHE:O	2.29	0.55
8:H:108:HIS:HB3	8:H:111:LEU:HD22	1.88	0.55
1:M:37:ILE:O	1:M:37:ILE:HG22	2.07	0.55
1:M:77:ALA:C	1:M:79:CYS:N	2.60	0.55
1:M:213:VAL:CG1	1:M:217:PHE:CZ	2.89	0.55
1:M:516:GLN:NE2	2:N:1130:HIS:NE2	2.55	0.55
1:M:781:ILE:HG23	1:M:781:ILE:O	2.06	0.55
1:M:806:ILE:CD1	1:M:814:LEU:CG	2.54	0.55
1:M:810:TYR:C	2:N:750:HIS:HD2	2.10	0.55
1:M:1403:LEU:CD2	1:M:1432:GLU:CG	2.44	0.55
1:M:1403:LEU:HB3	1:M:1432:GLU:CG	2.37	0.55
1:M:1450:TYR:CG	7:S:60:GLY:O	2.59	0.55
2:N:46:MET:CG	2:N:403:PHE:CE2	2.90	0.55
2:N:158:MET:HB2	2:N:188:PHE:CE2	2.42	0.55
4:P:86:HIS:O	4:P:88:PHE:N	2.40	0.55
7:S:51:ASP:C	7:S:55:ILE:HD11	2.26	0.55
7:S:145:ARG:C	7:S:146:LEU:HD12	2.27	0.55
9:U:108:PHE:O	9:U:110:PHE:N	2.37	0.55
1:A:128:GLN:CG	1:A:139:ALA:CB	2.74	0.55
1:A:550:ASN:O	1:A:551:ALA:CB	2.55	0.55
1:A:781:ILE:HG22	1:A:803:ARG:HB3	1.89	0.55
1:A:863:ARG:NH2	5:E:165:LEU:HD21	2.22	0.55
1:A:1140:GLN:O	1:A:1280:ARG:CG	2.54	0.55
1:A:1275:GLU:C	1:A:1277:ILE:HG23	2.26	0.55
1:A:1290:MET:HE1	1:A:1312:LEU:HG	1.87	0.55
2:B:1207:LYS:CG	2:B:1208:ASN:N	2.70	0.55
3:C:71:LEU:HA	3:C:133:PRO:HA	1.88	0.55
4:D:22:GLU:OE2	7:G:5:LEU:C	2.44	0.55
4:D:57:LYS:HD3	7:G:106:PRO:HA	1.88	0.55
4:D:132:LYS:N	4:D:134:GLN:HB2	2.20	0.55
7:G:146:LEU:HB3	7:G:162:ALA:HB1	1.88	0.55
11:K:82:PRO:CA	11:K:85:VAL:HG23	2.37	0.55
1:M:148:MET:CA	1:M:179:GLN:HA	2.36	0.55
1:M:510:ILE:HG13	1:M:511:THR:HG22	1.88	0.55
1:M:607:THR:HG23	1:M:607:THR:O	2.07	0.55
1:M:918:GLU:O	1:M:981:PRO:HB2	2.07	0.55
1:M:1020:LEU:O	1:M:1023:ILE:HG12	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1261:GLU:O	1:M:1263:ASP:HB2	2.07	0.55
1:M:1425:ASP:C	1:M:1427:CYS:H	2.10	0.55
1:M:1450:TYR:CE2	6:R:125:ARG:NE	2.68	0.55
2:N:225:ILE:HG22	2:N:227:SER:H	1.72	0.55
2:N:642:LYS:HE2	2:N:646:GLN:HE21	1.72	0.55
2:N:1058:PHE:HE1	3:O:193:TRP:HD1	1.43	0.55
2:N:1073:GLN:HE21	3:O:192:TYR:HA	1.71	0.55
10:V:4:PRO:O	10:V:5:ILE:CG2	2.51	0.55
11:W:36:LYS:HA	11:W:68:HIS:HD2	1.72	0.55
11:W:81:SER:HB3	11:W:84:GLN:H	1.72	0.55
1:A:51:ARG:HD3	1:A:56:LEU:HG	1.87	0.55
1:A:71:THR:HG21	1:A:82:HIS:CE1	2.41	0.55
1:A:812:ARG:N	1:A:813:GLY:CA	2.69	0.55
1:A:1496:PHE:CD1	4:D:29:GLU:HG3	2.42	0.55
2:B:32:ARG:HA	2:B:35:LEU:HD12	1.88	0.55
2:B:264:SER:H	2:B:322:LYS:HE3	1.72	0.55
2:B:310:ILE:HB	2:B:311:GLN:HA	0.67	0.55
2:B:387:PHE:CD2	2:B:503:THR:HG22	2.42	0.55
2:B:488:ILE:HG21	2:B:490:ARG:H	1.70	0.55
2:B:841:ARG:CZ	3:C:64:HIS:ND1	2.70	0.55
2:B:866:PRO:HG2	2:B:879:TYR:CE1	2.41	0.55
3:C:168:HIS:O	3:C:170:LYS:N	2.39	0.55
7:G:97:LYS:CA	7:G:131:TYR:OH	2.50	0.55
7:G:114:HIS:CD2	7:G:115:LEU:CD2	2.89	0.55
11:K:24:SER:HB3	11:K:25:LYS:O	2.07	0.55
1:M:71:THR:HG21	1:M:82:HIS:CE1	2.41	0.55
1:M:129:ARG:C	1:M:131:ARG:H	2.10	0.55
1:M:237:PRO:C	1:M:239:TRP:H	2.10	0.55
1:M:411:ILE:HG13	1:M:421:LEU:HD21	1.89	0.55
1:M:605:ASN:HB2	1:M:606:PRO:CA	2.37	0.55
1:M:605:ASN:OD1	8:T:101:LEU:HB2	2.07	0.55
1:M:852:GLU:HB3	1:M:1430:ILE:HD11	1.87	0.55
2:N:207:ILE:HD13	2:N:209:GLN:CB	2.36	0.55
4:P:22:GLU:OE1	7:S:6:LYS:HB2	2.06	0.55
5:Q:101:THR:CG2	5:Q:126:THR:N	2.70	0.55
1:A:2:SER:HB2	7:G:65:GLY:CA	2.36	0.55
1:A:30:ARG:CG	1:A:244:VAL:HG21	2.35	0.55
1:A:30:ARG:HG2	1:A:244:VAL:HG11	1.89	0.55
1:A:65:ARG:C	1:A:67:PHE:HD1	2.09	0.55
1:A:516:GLN:NE2	2:B:1130:HIS:NE2	2.55	0.55
1:A:605:ASN:HB2	1:A:606:PRO:CA	2.37	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:816:PRO:CB	2:B:689:MET:CE	2.82	0.55
1:A:946:CYS:CB	1:A:949:ILE:CD1	2.62	0.55
2:B:212:LYS:HZ2	2:B:381:PRO:CG	2.17	0.55
4:D:85:PHE:CE1	4:D:115:ILE:HG13	2.42	0.55
4:D:129:THR:C	4:D:133:PHE:HD2	2.09	0.55
8:H:108:HIS:CD2	8:H:111:LEU:HD13	2.37	0.55
1:M:62:THR:CB	1:M:75:THR:HG21	2.35	0.55
1:M:109:CYS:HB2	1:M:178:ALA:CB	2.10	0.55
1:M:116:LYS:HA	1:M:147:LYS:HZ2	1.70	0.55
1:M:121:ASN:ND2	1:M:121:ASN:N	2.55	0.55
1:M:728:LEU:HB3	1:M:805:PHE:HE1	1.71	0.55
1:M:863:ARG:NH2	5:Q:165:LEU:HD21	2.22	0.55
1:M:1144:THR:OG1	1:M:1145:THR:N	2.36	0.55
1:M:1431:SER:HA	1:M:1434:ILE:HG12	1.88	0.55
2:N:42:VAL:H	2:N:43:GLN:C	2.08	0.55
2:N:481:LEU:O	2:N:482:ARG:HG2	2.07	0.55
2:N:972:ARG:NE	2:N:1080:TYR:CE1	2.75	0.55
3:O:259:LEU:HD13	11:W:34:LEU:HD21	1.89	0.55
4:P:33:LEU:O	4:P:37:VAL:HG23	2.07	0.55
1:A:236:ARG:HD2	1:A:239:TRP:CH2	2.42	0.54
1:A:312:ASN:HD22	1:A:330:SER:HB3	1.65	0.54
1:A:336:LYS:HG3	1:A:1410:GLU:OE1	2.07	0.54
1:A:342:LEU:HD13	1:A:342:LEU:C	2.28	0.54
1:A:1437:GLY:HA2	2:B:1141:PHE:CD1	2.42	0.54
2:B:402:LEU:CD1	2:B:452:TRP:CZ3	2.90	0.54
2:B:436:SER:O	2:B:438:ILE:HD13	2.07	0.54
2:B:647:GLN:HB3	2:B:663:PHE:HZ	1.72	0.54
2:B:747:PHE:CE2	2:B:1016:VAL:HG11	2.42	0.54
3:C:179:PHE:HA	3:C:230:TYR:O	2.07	0.54
1:M:6:PHE:C	1:M:8:PRO:CD	2.76	0.54
1:M:353:PHE:CD2	1:M:381:THR:O	2.60	0.54
1:M:594:LEU:O	1:M:612:LEU:HA	2.07	0.54
1:M:792:HIS:HB2	1:M:817:GLN:HE21	1.59	0.54
1:M:815:THR:HG22	2:N:715:ARG:HB3	1.90	0.54
2:N:1095:ARG:CG	2:N:1096:ALA:N	2.70	0.54
3:O:168:HIS:C	3:O:170:LYS:H	2.09	0.54
3:O:233:VAL:HG21	3:O:245:MET:CE	2.37	0.54
4:P:10:ALA:HB1	7:S:85:GLY:CA	2.31	0.54
5:Q:89:THR:HG23	5:Q:90:PHE:HD1	1.72	0.54
7:S:14:LEU:CD2	7:S:27:LEU:HD21	2.29	0.54
7:S:152:ARG:N	7:S:159:PHE:O	2.39	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:183:ARG:NH2	1:A:203:PRO:C	2.61	0.54
1:A:255:SER:OG	1:A:256:ILE:N	2.39	0.54
1:A:470:PRO:O	1:A:471:TYR:HB2	2.07	0.54
1:A:488:PHE:C	1:A:490:GLY:H	2.09	0.54
1:A:522:SER:O	1:A:524:LYS:HG2	2.06	0.54
1:A:1161:PRO:CG	1:A:1190:LYS:CB	2.84	0.54
2:B:243:LEU:O	2:B:254:THR:O	2.25	0.54
2:B:301:LYS:HB2	2:B:302:PRO:CD	2.38	0.54
2:B:317:LEU:HD22	2:B:335:LEU:HD22	1.88	0.54
2:B:659:PRO:CB	2:B:661:GLN:CG	2.70	0.54
2:B:1037:THR:HG23	2:B:1039:VAL:HB	1.88	0.54
5:E:150:LEU:O	5:E:151:LEU:HD23	2.07	0.54
7:G:147:LYS:HG3	7:G:169:LEU:HD21	1.88	0.54
9:I:79:HIS:CD2	9:I:79:HIS:C	2.81	0.54
9:I:81:HIS:O	9:I:82:GLU:HB2	2.08	0.54
1:M:97:PHE:CZ	2:N:1200:ILE:HG23	2.43	0.54
1:M:150:CYS:SG	1:M:176:GLY:N	2.81	0.54
1:M:167:SER:HA	1:M:168:ALA:C	2.28	0.54
2:N:116:TYR:HE1	2:N:151:PHE:HB2	1.73	0.54
2:N:212:LYS:NZ	2:N:381:PRO:CG	2.70	0.54
2:N:281:ARG:HA	9:U:6:TYR:HE1	1.69	0.54
2:N:550:GLU:HG2	2:N:576:HIS:HB2	1.90	0.54
2:N:605:ILE:HD12	2:N:606:ARG:HG3	1.89	0.54
2:N:791:PRO:O	2:N:793:ALA:N	2.41	0.54
2:N:824:GLN:O	2:N:825:GLU:C	2.45	0.54
2:N:1063:HIS:HD2	2:N:1065:HIS:H	1.54	0.54
3:O:179:PHE:HA	3:O:230:TYR:O	2.07	0.54
3:O:254:GLU:O	3:O:258:VAL:HG23	2.07	0.54
5:Q:150:LEU:O	5:Q:151:LEU:HD23	2.08	0.54
7:S:51:ASP:O	7:S:52:SER:CB	2.55	0.54
1:A:21:PHE:CE2	1:A:1403:LEU:HD12	2.41	0.54
1:A:39:PHE:O	1:A:40:PRO:C	2.45	0.54
1:A:217:PHE:O	1:A:220:ILE:HG13	2.06	0.54
1:A:433:ARG:HH11	1:A:435:GLY:CA	2.19	0.54
1:A:488:PHE:O	2:B:978:THR:HG22	2.08	0.54
1:A:1126:TRP:HB2	1:A:1127:ILE:HG22	1.87	0.54
1:A:1431:SER:HA	1:A:1434:ILE:HG12	1.88	0.54
2:B:106:LEU:C	2:B:108:ASN:H	2.10	0.54
2:B:190:ILE:HD13	2:B:447:LEU:HD13	1.88	0.54
1:M:430:ILE:O	1:M:430:ILE:CG1	2.49	0.54
1:M:532:ASP:HB2	2:N:818:CYS:SG	2.47	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1043:VAL:HG13	1:M:1044:ALA:N	2.21	0.54
2:N:301:LYS:N	2:N:302:PRO:HD2	2.22	0.54
4:P:22:GLU:CD	7:S:4:PHE:HB3	2.27	0.54
4:P:97:CYS:CB	4:P:131:ARG:NH2	2.70	0.54
11:W:118:VAL:C	11:W:119:GLU:CG	2.74	0.54
12:X:55:LYS:HB2	12:X:56:ARG:CA	2.28	0.54
1:A:37:ILE:HG22	1:A:37:ILE:O	2.07	0.54
1:A:48:GLN:CG	1:A:50:PRO:HD3	2.35	0.54
1:A:386:VAL:CG2	1:A:436:TRP:CD1	2.91	0.54
1:A:916:TYR:C	1:A:918:GLU:N	2.61	0.54
1:A:1390:ILE:HD13	1:A:1395:ILE:CG2	2.36	0.54
2:B:290:ASP:CA	2:B:292:ASN:CG	2.75	0.54
2:B:391:ARG:CZ	2:B:615:ASP:HB3	2.37	0.54
2:B:486:THR:N	2:B:487:PRO:CD	2.68	0.54
3:C:215:ARG:O	3:C:216:GLU:HB2	2.06	0.54
7:G:116:VAL:HG12	7:G:117:PRO:HD2	1.81	0.54
8:H:79:LYS:CD	8:H:81:TYR:HE1	2.18	0.54
9:I:101:TYR:CB	9:I:110:PHE:CE1	2.90	0.54
1:M:2:SER:HB2	7:S:65:GLY:CA	2.36	0.54
1:M:106:GLU:HG3	1:M:144:CYS:CA	2.37	0.54
1:M:193:TRP:CZ3	1:M:206:ARG:CB	2.90	0.54
1:M:605:ASN:HB2	1:M:606:PRO:O	2.06	0.54
1:M:815:THR:OG1	1:M:818:GLU:CG	2.56	0.54
2:N:102:GLN:HG2	2:N:105:ARG:NE	2.20	0.54
2:N:510:PRO:CG	2:N:739:GLY:H	2.20	0.54
5:Q:45:HIS:HE1	5:Q:57:LEU:HD12	1.71	0.54
9:U:59:SER:C	9:U:61:ASP:N	2.60	0.54
12:X:55:LYS:CB	12:X:56:ARG:HA	2.31	0.54
1:A:15:ARG:HH11	1:A:1438:GLN:HE22	1.51	0.54
1:A:356:ARG:NH2	1:A:492:GLU:HB2	2.23	0.54
1:A:871:GLN:OE1	1:A:875:GLY:HA2	2.08	0.54
1:A:1082:MET:O	1:A:1083:THR:C	2.46	0.54
1:A:1153:THR:OG1	9:I:46:HIS:CB	2.53	0.54
1:A:1170:LYS:N	1:A:1170:LYS:CD	2.69	0.54
2:B:105:ARG:HH12	2:B:777:ARG:CZ	2.20	0.54
2:B:211:PHE:HZ	2:B:384:ARG:NH1	2.06	0.54
2:B:216:PRO:N	2:B:217:SER:HB3	2.18	0.54
2:B:273:ARG:NE	2:B:310:ILE:CD1	2.60	0.54
2:B:847:THR:CG2	2:B:956:ARG:HG3	2.38	0.54
7:G:100:PHE:HZ	7:G:131:TYR:CB	2.21	0.54
11:K:38:ASP:O	11:K:39:HIS:CG	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:69:CYS:SG	1:M:79:CYS:SG	3.06	0.54
1:M:541:SER:O	1:M:581:LYS:HE2	2.08	0.54
1:M:1149:VAL:HG22	1:M:1200:LEU:CD2	2.38	0.54
1:M:1247:ARG:O	1:M:1248:ASP:C	2.46	0.54
2:N:290:ASP:CA	2:N:292:ASN:CG	2.75	0.54
2:N:297:LEU:O	2:N:298:GLU:C	2.46	0.54
2:N:1037:THR:HG23	2:N:1039:VAL:HB	1.88	0.54
7:S:84:ARG:NE	7:S:150:GLY:HA2	2.22	0.54
7:S:147:LYS:HZ3	7:S:166:GLU:HG3	1.73	0.54
11:W:82:PRO:CA	11:W:85:VAL:HG23	2.37	0.54
1:A:101:ILE:HB	1:A:240:MET:SD	2.48	0.54
1:A:121:ASN:ND2	1:A:121:ASN:N	2.55	0.54
1:A:266:ASP:HB3	1:A:267:ASP:CG	2.27	0.54
1:A:773:GLN:HB2	1:A:805:PHE:HB2	1.88	0.54
1:A:927:VAL:O	1:A:929:ASP:N	2.40	0.54
1:A:1082:MET:HE1	1:A:1364:PHE:O	2.08	0.54
1:A:1290:MET:HE2	1:A:1312:LEU:HD23	1.66	0.54
1:A:1295:ILE:CG2	1:A:1309:GLU:HG2	2.36	0.54
2:B:82:ILE:HD11	2:B:115:LEU:HG	1.88	0.54
2:B:620:CYS:O	2:B:621:ARG:HB2	2.08	0.54
2:B:688:ALA:HB2	2:B:694:LEU:HD21	1.89	0.54
2:B:972:ARG:NE	2:B:1080:TYR:CE1	2.75	0.54
2:B:1063:HIS:HD2	2:B:1065:HIS:H	1.54	0.54
3:C:254:GLU:O	3:C:258:VAL:HG23	2.07	0.54
4:D:33:LEU:O	4:D:37:VAL:HG23	2.07	0.54
7:G:51:ASP:O	7:G:52:SER:CB	2.55	0.54
7:G:79:LEU:CD1	7:G:81:ARG:HH21	2.21	0.54
7:G:95:VAL:CG1	7:G:131:TYR:CE2	2.88	0.54
10:J:10:CYS:SG	10:J:44:CYS:SG	3.04	0.54
1:M:266:ASP:HB3	1:M:267:ASP:CG	2.27	0.54
1:M:452:ARG:NH1	1:M:486:ALA:CB	2.71	0.54
1:M:1406:CYS:O	1:M:1411:THR:HG23	2.08	0.54
1:M:1450:TYR:HD1	7:S:60:GLY:O	1.85	0.54
2:N:34:GLN:CB	2:N:35:LEU:HB2	2.36	0.54
2:N:1076:LEU:HD23	2:N:1076:LEU:C	2.28	0.54
3:O:71:LEU:HA	3:O:133:PRO:HA	1.88	0.54
7:S:100:PHE:HZ	7:S:131:TYR:CB	2.21	0.54
8:T:89:GLU:HG3	8:T:90:LYS:H	1.73	0.54
9:U:81:HIS:O	9:U:82:GLU:HB2	2.08	0.54
9:U:96:MET:SD	9:U:96:MET:N	2.79	0.54
10:V:4:PRO:HG2	10:V:48:MET:HE1	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:X:55:LYS:N	12:X:56:ARG:HB2	2.22	0.54
1:A:86:ILE:O	1:A:87:GLU:C	2.46	0.54
1:A:433:ARG:HG2	1:A:434:TYR:H	1.73	0.54
1:A:846:ARG:HG3	1:A:1390:ILE:CG2	2.35	0.54
1:A:976:LEU:HD22	1:A:980:LYS:HG3	1.88	0.54
1:A:1328:VAL:N	1:A:1329:ASP:HA	2.21	0.54
1:A:1485:PRO:C	1:A:1486:TYR:CD1	2.81	0.54
2:B:41:PHE:H	2:B:42:VAL:C	2.10	0.54
2:B:284:LEU:HD11	2:B:300:MET:HE3	1.90	0.54
2:B:391:ARG:CG	2:B:618:ARG:HH21	2.20	0.54
2:B:633:GLU:HG3	2:B:641:ARG:NH2	2.19	0.54
2:B:791:PRO:O	2:B:793:ALA:N	2.41	0.54
2:B:972:ARG:HG2	2:B:1082:GLN:OE1	2.08	0.54
3:C:194:PHE:O	3:C:201:GLU:HG3	2.08	0.54
4:D:67:ARG:O	4:D:68:PHE:CD2	2.61	0.54
7:G:84:ARG:NE	7:G:150:GLY:HA2	2.22	0.54
7:G:144:VAL:HG12	7:G:146:LEU:HD12	1.89	0.54
11:K:36:LYS:HA	11:K:68:HIS:HD2	1.72	0.54
1:M:202:LEU:HB2	1:M:203:PRO:CD	2.19	0.54
1:M:267:ASP:HB3	1:M:268:LEU:CB	2.19	0.54
1:M:873:ALA:HB3	1:M:876:GLU:N	2.22	0.54
1:M:1110:VAL:CG1	1:M:1387:LEU:HD13	2.26	0.54
2:N:301:LYS:HB2	2:N:302:PRO:CD	2.38	0.54
2:N:328:GLY:C	2:N:329:VAL:CG2	2.67	0.54
2:N:747:PHE:N	2:N:747:PHE:CD1	2.76	0.54
2:N:1061:MET:CE	2:N:1074:VAL:HG11	2.35	0.54
2:N:1207:LYS:CG	2:N:1208:ASN:N	2.70	0.54
4:P:85:PHE:CE2	4:P:115:ILE:HG12	2.42	0.54
1:A:541:SER:O	1:A:581:LYS:HE2	2.08	0.54
1:A:937:GLN:O	1:A:941:ASP:HB3	2.08	0.54
1:A:1161:PRO:CG	1:A:1190:LYS:CG	2.22	0.54
1:A:1195:LEU:HD13	1:A:1242:ARG:HD3	1.78	0.54
1:A:1247:ARG:O	1:A:1248:ASP:C	2.46	0.54
1:A:1403:LEU:CD2	1:A:1432:GLU:CG	2.44	0.54
2:B:225:ILE:HG22	2:B:227:SER:H	1.72	0.54
2:B:247:ASN:C	2:B:249:GLU:H	2.10	0.54
2:B:296:MET:SD	2:B:376:LEU:CD1	2.94	0.54
2:B:610:LEU:HD23	2:B:612:LEU:HG	1.90	0.54
3:C:103:LEU:N	3:C:158:CYS:O	2.36	0.54
4:D:24:MET:HA	7:G:4:PHE:CD1	2.43	0.54
1:M:30:ARG:HG2	1:M:244:VAL:HG11	1.89	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:135:ASN:C	1:M:137:LEU:H	2.10	0.54
1:M:135:ASN:C	1:M:137:LEU:N	2.60	0.54
1:M:150:CYS:CB	1:M:176:GLY:N	2.71	0.54
1:M:540:PHE:CD2	1:M:662:TRP:CD1	2.95	0.54
1:M:696:VAL:CG2	1:M:727:ILE:HD11	2.35	0.54
1:M:889:PHE:CZ	1:M:1020:LEU:CD2	2.89	0.54
1:M:1103:ARG:O	1:M:1104:LEU:C	2.46	0.54
1:M:1170:LYS:CE	1:M:1240:ILE:HD12	2.35	0.54
2:N:49:ILE:HD11	2:N:403:PHE:HD2	1.73	0.54
2:N:290:ASP:OD2	2:N:291:PRO:HD3	2.08	0.54
2:N:554:ASP:O	2:N:555:TYR:HB2	2.08	0.54
2:N:610:LEU:HD23	2:N:612:LEU:HG	1.90	0.54
2:N:841:ARG:CZ	3:O:64:HIS:ND1	2.70	0.54
2:N:1095:ARG:CD	2:N:1096:ALA:N	2.69	0.54
4:P:67:ARG:O	4:P:68:PHE:CD2	2.61	0.54
7:S:146:LEU:HB3	7:S:162:ALA:HB1	1.88	0.54
11:W:48:GLN:HG3	11:W:93:LEU:HD21	1.89	0.54
1:A:77:ALA:C	1:A:79:CYS:N	2.60	0.54
1:A:349:LYS:NZ	2:B:1187:ALA:HB3	2.22	0.54
1:A:571:ILE:HG23	1:A:573:LYS:HG3	1.89	0.54
1:A:802:SER:OG	1:A:803:ARG:N	2.41	0.54
1:A:810:TYR:CE2	2:B:751:ASN:C	2.81	0.54
1:A:1149:VAL:HG22	1:A:1200:LEU:CD2	2.38	0.54
1:A:1338:PHE:O	1:A:1339:VAL:C	2.45	0.54
2:B:34:GLN:CB	2:B:35:LEU:HB2	2.36	0.54
2:B:262:ILE:HG22	2:B:323:ARG:O	2.08	0.54
2:B:554:ASP:O	2:B:555:TYR:HB2	2.08	0.54
2:B:747:PHE:N	2:B:747:PHE:CD1	2.76	0.54
2:B:819:TYR:CE1	2:B:989:PRO:HG3	2.43	0.54
2:B:851:GLN:HG2	2:B:952:PHE:CD1	2.43	0.54
1:M:57:ASP:C	1:M:59:ARG:C	2.67	0.54
1:M:95:ILE:HG21	1:M:314:ILE:HG12	1.89	0.54
1:M:105:LEU:HD22	1:M:182:ILE:CB	2.26	0.54
1:M:336:LYS:HG3	1:M:1410:GLU:OE1	2.07	0.54
1:M:548:THR:HG23	1:M:550:ASN:HB2	1.90	0.54
1:M:558:TRP:HH2	11:W:61:LYS:CE	2.20	0.54
1:M:916:TYR:C	1:M:918:GLU:H	2.11	0.54
1:M:947:LYS:HA	1:M:948:PHE:C	2.23	0.54
5:Q:77:ALA:HB3	5:Q:78:LYS:CA	2.38	0.54
7:S:91:ILE:CG1	7:S:143:ASN:OD1	2.45	0.54
11:W:24:SER:HB3	11:W:25:LYS:O	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:69:CYS:SG	1:A:79:CYS:SG	3.06	0.54
1:A:118:ASP:CG	1:A:172:HIS:ND1	2.62	0.54
1:A:268:LEU:HD22	1:A:329:LYS:HB3	1.90	0.54
1:A:382:TYR:CE2	1:A:440:ARG:NE	2.75	0.54
1:A:411:ILE:HG13	1:A:421:LEU:HD21	1.89	0.54
1:A:480:VAL:HG12	1:A:484:TYR:HE1	1.73	0.54
1:A:916:TYR:C	1:A:918:GLU:H	2.11	0.54
1:A:1290:MET:SD	1:A:1311:VAL:C	2.86	0.54
1:A:1406:CYS:O	1:A:1411:THR:HG23	2.08	0.54
2:B:262:ILE:HG21	2:B:323:ARG:O	2.06	0.54
2:B:550:GLU:HG2	2:B:576:HIS:HB2	1.90	0.54
2:B:661:GLN:O	2:B:663:PHE:N	2.41	0.54
3:C:259:LEU:HD13	11:K:34:LEU:HD21	1.89	0.54
4:D:51:MET:O	4:D:55:MET:CB	2.56	0.54
10:J:4:PRO:O	10:J:5:ILE:CG2	2.51	0.54
1:M:57:ASP:CB	1:M:58:PRO:HD2	2.36	0.54
1:M:118:ASP:HB3	1:M:172:HIS:H	1.73	0.54
1:M:132:ASP:HB3	1:M:133:PRO:HD2	1.88	0.54
1:M:310:MET:CE	2:N:1198:MET:HG2	2.38	0.54
1:M:370:LEU:HD12	1:M:475:ARG:O	2.08	0.54
1:M:488:PHE:O	2:N:978:THR:HG22	2.08	0.54
1:M:982:THR:OG1	1:M:984:LEU:HB2	2.08	0.54
1:M:1149:VAL:HG22	1:M:1200:LEU:HD23	1.90	0.54
1:M:1164:THR:O	1:M:1165:VAL:HB	2.08	0.54
2:N:105:ARG:HH12	2:N:777:ARG:CZ	2.20	0.54
2:N:688:ALA:HB2	2:N:694:LEU:HD21	1.89	0.54
7:S:97:LYS:HE3	7:S:124:PRO:HB3	1.89	0.54
7:S:144:VAL:CG1	7:S:164:MET:CE	2.86	0.54
10:V:32:GLY:O	10:V:35:LEU:HG	2.08	0.54
1:A:51:ARG:HD2	1:A:57:ASP:CG	2.27	0.53
1:A:584:LEU:HD23	1:A:584:LEU:C	2.29	0.53
1:A:696:VAL:CG2	1:A:727:ILE:HD11	2.35	0.53
1:A:1194:TRP:CZ2	1:A:1262:GLU:CB	2.91	0.53
1:A:1263:ASP:O	1:A:1266:LEU:N	2.30	0.53
1:A:1461:LEU:H	1:A:1461:LEU:CD1	2.22	0.53
2:B:322:LYS:O	2:B:322:LYS:HG3	2.07	0.53
2:B:510:PRO:CG	2:B:739:GLY:H	2.20	0.53
2:B:568:VAL:O	2:B:569:ASN:HB2	2.08	0.53
2:B:1036:PHE:N	2:B:1036:PHE:CD1	2.77	0.53
4:D:37:VAL:HA	4:D:40:GLN:OE1	2.08	0.53
9:I:20:LYS:CE	9:I:21:VAL:HG23	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:21:PHE:HZ	1:M:1403:LEU:CD1	2.19	0.53
1:M:65:ARG:C	1:M:67:PHE:HD1	2.09	0.53
1:M:145:LYS:O	1:M:148:MET:CE	2.56	0.53
1:M:350:ARG:HH11	2:N:1118:ARG:HB2	1.71	0.53
1:M:1442:MET:HB2	2:N:1133:SER:HA	1.89	0.53
2:N:41:PHE:H	2:N:42:VAL:C	2.10	0.53
2:N:350:ILE:HA	2:N:571:VAL:HG13	1.89	0.53
2:N:378:ARG:HA	9:U:52:ASN:ND2	2.20	0.53
2:N:753:SER:O	2:N:756:ASN:HB2	2.08	0.53
2:N:972:ARG:HG2	2:N:1082:GLN:OE1	2.08	0.53
2:N:1021:SER:OG	2:N:1022:LYS:N	2.40	0.53
4:P:24:MET:HA	7:S:4:PHE:CD1	2.43	0.53
4:P:133:PHE:C	4:P:135:ASP:H	2.11	0.53
9:U:79:HIS:CD2	9:U:79:HIS:C	2.81	0.53
11:W:38:ASP:O	11:W:39:HIS:CG	2.61	0.53
1:A:56:LEU:C	1:A:56:LEU:CD1	2.77	0.53
1:A:408:ALA:HB1	1:A:439:GLU:O	2.08	0.53
1:A:452:ARG:NH1	1:A:486:ALA:CB	2.71	0.53
1:A:537:VAL:HG12	1:A:538:ARG:N	2.23	0.53
1:A:540:PHE:CD2	1:A:662:TRP:CD1	2.95	0.53
1:A:640:TRP:N	1:A:641:LYS:O	2.35	0.53
1:A:857:ARG:CG	1:A:857:ARG:NH1	2.58	0.53
1:A:947:LYS:HA	1:A:948:PHE:C	2.23	0.53
2:B:38:PHE:HB3	2:B:158:MET:HE1	1.91	0.53
2:B:605:ILE:HD12	2:B:606:ARG:HG3	1.89	0.53
2:B:642:LYS:HE2	2:B:646:GLN:HE21	1.72	0.53
2:B:973:HIS:HD2	2:B:1013:ALA:HB3	1.73	0.53
2:B:999:ILE:HD11	2:B:1081:TYR:CD1	2.43	0.53
5:E:105:ILE:C	5:E:105:ILE:HD12	2.28	0.53
5:E:166:ARG:C	5:E:168:THR:H	2.12	0.53
7:G:97:LYS:HE3	7:G:124:PRO:HB3	1.89	0.53
1:M:148:MET:C	1:M:179:GLN:HA	2.28	0.53
1:M:773:GLN:HB2	1:M:805:PHE:CB	2.38	0.53
1:M:976:LEU:CD1	1:M:1041:ASN:ND2	2.72	0.53
1:M:1127:ILE:O	1:M:1127:ILE:HG12	2.08	0.53
1:M:1290:MET:HE1	1:M:1312:LEU:CD2	2.37	0.53
2:N:46:MET:O	2:N:49:ILE:HG12	2.08	0.53
2:N:104:ALA:O	2:N:106:LEU:N	2.40	0.53
2:N:568:VAL:O	2:N:569:ASN:HB2	2.08	0.53
2:N:700:MET:C	2:N:702:ALA:N	2.62	0.53
4:P:88:PHE:HZ	7:S:86:GLU:HG2	1.71	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:10:CYS:O	9:U:11:ASN:C	2.46	0.53
1:A:42:THR:CB	1:A:55:LEU:HB2	2.39	0.53
1:A:106:GLU:O	1:A:116:LYS:HD2	2.07	0.53
1:A:119:SER:C	1:A:122:PRO:HA	2.29	0.53
1:A:150:CYS:N	1:A:176:GLY:O	2.42	0.53
1:A:1095:LYS:C	1:A:1097:VAL:H	2.11	0.53
1:A:1140:GLN:NE2	1:A:1280:ARG:NH1	2.56	0.53
1:A:1450:TYR:OH	6:F:125:ARG:NH1	2.41	0.53
2:B:46:MET:O	2:B:49:ILE:HG12	2.08	0.53
2:B:610:LEU:HD23	2:B:610:LEU:O	2.09	0.53
2:B:732:ILE:HG13	2:B:733:HIS:H	1.74	0.53
2:B:1061:MET:CE	2:B:1074:VAL:HG11	2.36	0.53
2:B:1076:LEU:HD23	2:B:1076:LEU:C	2.28	0.53
3:C:68:MET:HB3	10:J:6:ARG:CD	2.27	0.53
9:I:69:PRO:CG	9:I:85:PHE:CZ	2.91	0.53
1:M:382:TYR:HE1	1:M:446:ASP:OD1	1.88	0.53
1:M:388:PRO:CG	6:R:94:ASN:ND2	2.61	0.53
1:M:1348:GLU:CG	5:Q:193:ILE:HD12	2.38	0.53
1:M:1406:CYS:CB	1:M:1411:THR:HG22	2.39	0.53
2:N:661:GLN:O	2:N:663:PHE:N	2.41	0.53
2:N:819:TYR:CE1	2:N:989:PRO:HG3	2.43	0.53
3:O:68:MET:HB3	10:V:6:ARG:CD	2.27	0.53
9:U:3:ASN:N	9:U:3:ASN:HD22	2.05	0.53
11:W:46:ALA:C	11:W:48:GLN:N	2.62	0.53
1:A:15:ARG:HD3	1:A:1438:GLN:HG2	1.91	0.53
1:A:50:PRO:O	1:A:51:ARG:CB	2.57	0.53
1:A:61:GLY:O	1:A:62:THR:HB	2.08	0.53
1:A:135:ASN:C	1:A:137:LEU:H	2.10	0.53
1:A:205:LYS:O	1:A:206:ARG:CB	2.55	0.53
1:A:780:ARG:HH11	1:A:803:ARG:HH21	1.37	0.53
1:A:792:HIS:CB	1:A:817:GLN:NE2	2.71	0.53
1:A:793:PHE:CZ	1:A:817:GLN:OE1	2.61	0.53
1:A:918:GLU:HB2	1:A:981:PRO:HB2	1.90	0.53
1:A:976:LEU:CD1	1:A:1041:ASN:ND2	2.72	0.53
1:A:1103:ARG:O	1:A:1104:LEU:C	2.46	0.53
1:A:1254:GLU:O	1:A:1255:ASP:C	2.47	0.53
1:A:1406:CYS:CB	1:A:1411:THR:HG22	2.39	0.53
1:A:1478:LEU:HD23	4:D:45:THR:C	2.29	0.53
2:B:297:LEU:O	2:B:298:GLU:C	2.46	0.53
2:B:824:GLN:O	2:B:825:GLU:C	2.45	0.53
2:B:900:ILE:HD13	2:B:900:ILE:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:990:PHE:HD1	3:C:179:PHE:HE2	1.56	0.53
4:D:85:PHE:HZ	4:D:115:ILE:HG12	1.63	0.53
4:D:132:LYS:CA	4:D:133:PHE:O	2.51	0.53
9:I:5:GLN:O	9:I:14:LEU:CG	2.56	0.53
1:M:111:ASN:CG	1:M:216:ILE:HG12	2.26	0.53
1:M:118:ASP:CG	1:M:172:HIS:ND1	2.62	0.53
1:M:408:ALA:HB1	1:M:439:GLU:O	2.08	0.53
1:M:463:GLY:O	1:M:512:MET:SD	2.67	0.53
1:M:846:ARG:HG3	1:M:1390:ILE:CG2	2.38	0.53
1:M:871:GLN:OE1	1:M:875:GLY:HA2	2.08	0.53
1:M:904:ARG:CG	1:M:937:GLN:HE22	2.21	0.53
1:M:1008:ARG:HG2	1:M:1011:ARG:HH12	1.74	0.53
2:N:732:ILE:HG13	2:N:733:HIS:H	1.74	0.53
2:N:847:THR:CG2	2:N:956:ARG:HG3	2.38	0.53
2:N:1205:PHE:CD2	2:N:1210:LYS:CA	2.91	0.53
3:O:207:ASN:HD22	3:O:230:TYR:HB3	1.74	0.53
4:P:85:PHE:CE1	4:P:115:ILE:HG13	2.42	0.53
5:Q:54:ARG:O	5:Q:55:THR:HB	2.09	0.53
7:S:79:LEU:CD1	7:S:81:ARG:HH21	2.20	0.53
9:U:69:PRO:CG	9:U:85:PHE:CZ	2.91	0.53
1:A:10:SER:HB2	2:B:1168:TYR:OH	2.07	0.53
1:A:95:ILE:HD12	1:A:314:ILE:HD13	1.91	0.53
1:A:927:VAL:HG23	1:A:928:GLN:HG3	1.91	0.53
1:A:982:THR:OG1	1:A:984:LEU:HB2	2.09	0.53
1:A:1118:SER:C	1:A:1314:THR:CG2	2.77	0.53
1:A:1269:ILE:O	1:A:1273:MET:HG2	2.09	0.53
1:A:1348:GLU:CG	5:E:193:ILE:HD12	2.39	0.53
1:A:1476:SER:O	1:A:1478:LEU:N	2.42	0.53
2:B:104:ALA:O	2:B:106:LEU:N	2.40	0.53
4:D:11:ALA:CB	4:D:12:GLN:CB	2.60	0.53
4:D:97:CYS:CB	4:D:131:ARG:NH2	2.71	0.53
7:G:95:VAL:HG13	7:G:131:TYR:HE2	1.69	0.53
1:M:95:ILE:O	1:M:96:GLY:C	2.46	0.53
1:M:195:ARG:HG3	1:M:196:GLY:N	2.22	0.53
1:M:332:ARG:HA	1:M:335:LEU:HG	1.91	0.53
1:M:368:ASP:HA	1:M:513:VAL:CG2	2.33	0.53
1:M:382:TYR:N	1:M:383:PRO:HD3	2.23	0.53
1:M:411:ILE:HD12	1:M:425:LYS:NZ	2.24	0.53
1:M:538:ARG:O	1:M:540:PHE:N	2.41	0.53
1:M:835:VAL:C	1:M:837:THR:N	2.60	0.53
1:M:1151:SER:H	1:M:1152:ALA:HA	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:387:PHE:CD2	2:N:503:THR:HG21	2.31	0.53
2:N:973:HIS:HD2	2:N:1013:ALA:HB3	1.74	0.53
4:P:37:VAL:HA	4:P:40:GLN:OE1	2.08	0.53
5:Q:105:ILE:C	5:Q:105:ILE:HD12	2.28	0.53
7:S:116:VAL:HG12	7:S:117:PRO:HD2	1.81	0.53
7:S:144:VAL:HG12	7:S:146:LEU:HD12	1.88	0.53
1:A:48:GLN:HG3	1:A:50:PRO:HD3	1.91	0.53
1:A:115:LEU:CD2	1:A:227:HIS:CD2	2.92	0.53
1:A:147:LYS:CG	1:A:148:MET:N	2.72	0.53
1:A:236:ARG:CG	1:A:239:TRP:CZ3	2.92	0.53
1:A:388:PRO:CB	1:A:434:TYR:OH	2.56	0.53
1:A:411:ILE:HD12	1:A:425:LYS:NZ	2.24	0.53
1:A:761:PHE:HA	1:A:764:ILE:HD11	1.91	0.53
1:A:835:VAL:C	1:A:837:THR:N	2.60	0.53
1:A:1151:SER:H	1:A:1152:ALA:HA	1.74	0.53
10:J:32:GLY:O	10:J:35:LEU:HG	2.08	0.53
1:M:388:PRO:CB	1:M:434:TYR:HE2	2.22	0.53
1:M:822:HIS:CD2	2:N:753:SER:OG	2.62	0.53
1:M:1082:MET:O	1:M:1083:THR:C	2.46	0.53
1:M:1118:SER:C	1:M:1314:THR:HG22	2.29	0.53
2:N:610:LEU:HD23	2:N:610:LEU:O	2.09	0.53
2:N:620:CYS:O	2:N:621:ARG:HB2	2.08	0.53
2:N:851:GLN:HG2	2:N:952:PHE:CD1	2.43	0.53
5:Q:198:GLU:CB	5:Q:199:THR:CA	2.86	0.53
7:S:10:LEU:HD22	7:S:35:VAL:HG22	1.83	0.53
8:T:7:LEU:HD21	8:T:110:LYS:NZ	2.23	0.53
10:V:59:LEU:HD23	10:V:59:LEU:O	2.09	0.53
1:A:194:LYS:HA	1:A:200:SER:HB3	1.91	0.53
1:A:310:MET:CE	2:B:1198:MET:HG2	2.38	0.53
1:A:332:ARG:HA	1:A:335:LEU:HG	1.91	0.53
1:A:549:ARG:CZ	11:K:50:LEU:HD11	2.39	0.53
1:A:781:ILE:CG2	1:A:803:ARG:HA	2.34	0.53
1:A:1066:MET:SD	1:A:1442:MET:HE2	2.48	0.53
1:A:1149:VAL:HG22	1:A:1200:LEU:HD23	1.91	0.53
1:A:1158:ASP:HB3	1:A:1163:ASP:HB2	1.90	0.53
2:B:116:TYR:HE1	2:B:151:PHE:HB2	1.73	0.53
2:B:290:ASP:OD2	2:B:291:PRO:HD3	2.08	0.53
2:B:402:LEU:HD13	2:B:452:TRP:HZ3	1.72	0.53
2:B:753:SER:O	2:B:756:ASN:HB2	2.08	0.53
4:D:130:LEU:O	4:D:132:LYS:N	2.42	0.53
4:D:133:PHE:C	4:D:135:ASP:H	2.11	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:133:PHE:O	4:D:135:ASP:N	2.42	0.53
5:E:73:TYR:HE2	5:E:75:GLU:OE2	1.91	0.53
7:G:6:LYS:CG	7:G:7:GLU:N	2.72	0.53
7:G:154:ASP:O	7:G:155:ALA:HB3	2.08	0.53
8:H:89:GLU:HG3	8:H:90:LYS:H	1.73	0.53
1:M:332:ARG:HG2	1:M:332:ARG:NH1	2.24	0.53
1:M:1444:THR:CG2	1:M:1444:THR:O	2.56	0.53
2:N:715:ARG:HH11	2:N:715:ARG:CG	2.13	0.53
2:N:728:THR:HG23	2:N:729:HIS:N	2.23	0.53
2:N:741:LEU:HD22	2:N:760:SER:CA	2.39	0.53
2:N:900:ILE:HD13	2:N:900:ILE:H	1.73	0.53
2:N:990:PHE:HD1	3:O:179:PHE:HE2	1.56	0.53
7:S:96:ASN:C	7:S:98:MET:N	2.62	0.53
9:U:4:PHE:CD1	9:U:27:LEU:HD22	2.43	0.53
10:V:12:LYS:HE3	10:V:42:ARG:HH22	1.72	0.53
1:A:57:ASP:C	1:A:59:ARG:C	2.67	0.53
1:A:95:ILE:C	1:A:98:LEU:HB2	2.28	0.53
1:A:510:ILE:HG13	1:A:511:THR:N	2.24	0.53
1:A:839:GLU:HA	1:A:842:TYR:CD2	2.43	0.53
1:A:1163:ASP:O	1:A:1164:THR:CG2	2.57	0.53
1:A:1174:GLU:CD	1:A:1242:ARG:CZ	2.77	0.53
2:B:728:THR:HG23	2:B:729:HIS:N	2.23	0.53
2:B:1095:ARG:CD	2:B:1096:ALA:N	2.69	0.53
3:C:207:ASN:HD22	3:C:230:TYR:HB3	1.73	0.53
1:M:91:PRO:HB2	1:M:210:PRO:HG2	1.90	0.53
1:M:510:ILE:HG13	1:M:511:THR:N	2.24	0.53
1:M:806:ILE:HD13	1:M:814:LEU:CD1	2.37	0.53
1:M:856:VAL:HG11	1:M:874:TYR:HD2	1.74	0.53
1:M:937:GLN:O	1:M:941:ASP:HB3	2.08	0.53
1:M:1095:LYS:C	1:M:1097:VAL:H	2.11	0.53
1:M:1158:ASP:HB3	1:M:1163:ASP:HB2	1.90	0.53
1:M:1254:GLU:O	1:M:1255:ASP:C	2.47	0.53
1:M:1295:ILE:HG22	1:M:1309:GLU:HG2	1.89	0.53
1:M:1450:TYR:CD1	7:S:61:ARG:CB	2.92	0.53
2:N:436:SER:O	2:N:438:ILE:HD13	2.07	0.53
2:N:647:GLN:HB3	2:N:663:PHE:HZ	1.72	0.53
2:N:685:VAL:CG1	2:N:728:THR:CG2	2.86	0.53
2:N:817:LEU:HD23	2:N:818:CYS:H	1.74	0.53
2:N:874:MET:HG2	2:N:879:TYR:OH	2.09	0.53
2:N:1036:PHE:N	2:N:1036:PHE:CD1	2.77	0.53
3:O:257:ALA:O	3:O:258:VAL:C	2.47	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:132:LYS:CA	4:P:133:PHE:O	2.51	0.53
5:Q:159:LEU:HD11	5:Q:206:TYR:CD2	2.44	0.53
7:S:154:ASP:O	7:S:155:ALA:HB3	2.08	0.53
8:T:10:ILE:HG13	8:T:10:ILE:O	2.09	0.53
1:A:116:LYS:HD3	1:A:116:LYS:N	2.14	0.53
1:A:167:SER:HA	1:A:168:ALA:C	2.27	0.53
1:A:819:PHE:HB2	2:B:749:ASP:OD2	2.09	0.53
1:A:919:ASN:O	1:A:920:SER:HB3	2.07	0.53
1:A:1164:THR:O	1:A:1165:VAL:HB	2.08	0.53
1:A:1299:ILE:HD11	1:A:1305:GLU:CG	2.34	0.53
1:A:1349:ALA:HA	5:E:144:LEU:O	2.09	0.53
1:A:1461:LEU:CB	1:A:1462:GLY:CA	2.64	0.53
2:B:538:ALA:HB3	2:B:539:PRO:CD	2.33	0.53
4:D:84:ARG:CA	4:D:90:ARG:HD2	2.37	0.53
5:E:142:HIS:O	5:E:143:GLU:C	2.47	0.53
1:M:15:ARG:HD3	1:M:1438:GLN:HG2	1.91	0.53
1:M:94:HIS:C	1:M:98:LEU:CG	2.77	0.53
1:M:98:LEU:O	1:M:101:ILE:CG2	2.55	0.53
1:M:119:SER:C	1:M:122:PRO:HA	2.29	0.53
1:M:163:LEU:O	1:M:163:LEU:CG	2.41	0.53
1:M:177:ALA:HB3	1:M:178:ALA:O	2.09	0.53
1:M:342:LEU:C	1:M:342:LEU:HD13	2.29	0.53
1:M:513:VAL:O	1:M:517:ILE:HG23	2.09	0.53
1:M:749:VAL:HG22	2:N:1007:PRO:HG3	1.90	0.53
1:M:950:PHE:HB2	1:M:951:PRO:CD	2.31	0.53
1:M:1118:SER:C	1:M:1314:THR:CG2	2.77	0.53
2:N:273:ARG:HD2	2:N:310:ILE:HG21	1.91	0.53
3:O:71:LEU:N	3:O:71:LEU:HD12	2.24	0.53
3:O:194:PHE:O	3:O:201:GLU:HG3	2.08	0.53
5:Q:166:ARG:C	5:Q:168:THR:H	2.12	0.53
9:U:94:ASP:O	9:U:96:MET:N	2.40	0.53
1:A:8:PRO:HG2	2:B:1148:ARG:NE	2.24	0.53
1:A:58:PRO:O	1:A:60:LEU:HG	2.09	0.53
1:A:193:TRP:HZ3	1:A:206:ARG:CG	2.21	0.53
1:A:607:THR:HG23	1:A:607:THR:O	2.07	0.53
1:A:819:PHE:HB2	2:B:749:ASP:CG	2.28	0.53
1:A:950:PHE:CE1	5:E:196:ARG:HA	2.44	0.53
1:A:1008:ARG:HG2	1:A:1011:ARG:HH12	1.73	0.53
1:A:1191:GLN:OE1	1:A:1192:SER:N	2.42	0.53
1:A:1290:MET:SD	1:A:1311:VAL:N	2.82	0.53
1:A:1480:GLU:OE1	4:D:44:GLU:HG2	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:287:ILE:HD11	2:B:368:ILE:CD1	2.36	0.53
2:B:654:ARG:CB	2:B:655:TYR:CA	2.56	0.53
2:B:823:ASN:O	2:B:1002:ASN:HB2	2.09	0.53
2:B:1180:SER:CB	2:B:1209:HIS:HD2	2.14	0.53
3:C:12:ILE:HD12	3:C:12:ILE:O	2.09	0.53
3:C:233:VAL:HG21	3:C:245:MET:CE	2.37	0.53
7:G:94:THR:HG21	8:T:2:SER:HA	1.87	0.53
7:G:97:LYS:HE2	7:G:122:PHE:CD1	2.44	0.53
10:J:59:LEU:O	10:J:59:LEU:HD23	2.09	0.53
11:K:46:ALA:C	11:K:48:GLN:N	2.62	0.53
1:M:189:LEU:C	1:M:190:TRP:HD1	2.12	0.53
1:M:470:PRO:O	1:M:471:TYR:HB2	2.08	0.53
1:M:646:GLU:N	1:M:649:LYS:H	2.07	0.53
1:M:918:GLU:HB2	1:M:981:PRO:HB2	1.90	0.53
1:M:1191:GLN:OE1	1:M:1192:SER:N	2.42	0.53
1:M:1263:ASP:O	1:M:1266:LEU:HB2	2.09	0.53
2:N:287:ILE:HD11	2:N:368:ILE:CD1	2.37	0.53
2:N:1141:PHE:CD1	2:N:1185:PRO:HG2	2.43	0.53
5:Q:73:TYR:HE2	5:Q:75:GLU:OE2	1.91	0.53
5:Q:142:HIS:O	5:Q:143:GLU:C	2.47	0.53
8:T:79:LYS:CD	8:T:81:TYR:HE1	2.18	0.53
1:A:57:ASP:O	1:A:60:LEU:HG	2.09	0.52
1:A:90:LYS:HZ2	1:A:282:VAL:CG1	2.18	0.52
1:A:157:GLY:O	1:A:168:ALA:HA	2.09	0.52
1:A:434:TYR:CE1	6:R:101:LEU:O	2.62	0.52
1:A:771:VAL:CG2	1:A:809:SER:HA	2.40	0.52
1:A:778:GLY:HA3	1:A:1091:GLY:O	2.08	0.52
1:A:800:PRO:C	1:A:802:SER:N	2.62	0.52
1:A:904:ARG:HB2	1:A:937:GLN:OE1	2.09	0.52
1:A:1228:PHE:HE2	1:A:1246:ILE:CD1	2.13	0.52
2:B:24:PHE:O	2:B:28:THR:HB	2.09	0.52
2:B:640:ILE:CD1	2:B:673:LEU:HD22	2.38	0.52
2:B:899:ILE:HG22	2:B:929:PRO:HA	1.91	0.52
5:E:77:ALA:HB3	5:E:78:LYS:CA	2.38	0.52
11:K:83:LYS:O	11:K:87:VAL:HG23	2.10	0.52
1:M:33:SER:CB	1:M:85:HIS:H	2.21	0.52
1:M:268:LEU:HD22	1:M:329:LYS:HB3	1.90	0.52
1:M:927:VAL:HG23	1:M:928:GLN:HG3	1.91	0.52
1:M:1114:ILE:O	1:M:1115:LYS:C	2.47	0.52
2:N:31:ALA:N	2:N:482:ARG:HH21	2.02	0.52
2:N:273:ARG:HH11	2:N:310:ILE:HD12	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:899:ILE:HG22	2:N:929:PRO:HA	1.91	0.52
2:N:1063:HIS:CD2	2:N:1065:HIS:H	2.27	0.52
4:P:130:LEU:O	4:P:132:LYS:N	2.42	0.52
7:S:97:LYS:HE2	7:S:122:PHE:CD1	2.44	0.52
9:U:99:LEU:CD2	9:U:100:ILE:O	2.57	0.52
1:A:135:ASN:C	1:A:137:LEU:N	2.60	0.52
1:A:148:MET:HE1	1:A:181:THR:OG1	2.08	0.52
1:A:360:THR:HB	1:A:475:ARG:HD3	1.91	0.52
1:A:661:TYR:CE1	11:K:61:LYS:HD3	2.43	0.52
2:B:107:ARG:NH1	12:L:47:ARG:O	2.42	0.52
2:B:330:THR:O	2:B:334:ARG:CG	2.57	0.52
2:B:685:VAL:CG1	2:B:728:THR:CG2	2.87	0.52
2:B:1021:SER:OG	2:B:1022:LYS:N	2.40	0.52
7:G:95:VAL:HG13	7:G:131:TYR:HD2	1.72	0.52
9:I:77:ARG:O	9:I:78:CYS:C	2.48	0.52
1:M:48:GLN:HB2	1:M:50:PRO:HD3	1.91	0.52
1:M:85:HIS:CB	1:M:244:VAL:CG1	2.72	0.52
1:M:593:ASN:O	1:M:594:LEU:HD23	2.08	0.52
1:M:922:GLU:HB3	1:M:923:ASN:CA	2.39	0.52
3:O:12:ILE:HD12	3:O:12:ILE:O	2.09	0.52
4:P:85:PHE:O	4:P:86:HIS:CD2	2.63	0.52
7:S:97:LYS:CA	7:S:131:TYR:OH	2.50	0.52
9:U:101:TYR:CB	9:U:110:PHE:CE1	2.90	0.52
1:A:89:ALA:O	1:A:90:LYS:HG2	2.10	0.52
1:A:95:ILE:O	1:A:96:GLY:C	2.47	0.52
1:A:195:ARG:CG	1:A:196:GLY:CA	2.76	0.52
1:A:463:GLY:O	1:A:512:MET:SD	2.67	0.52
1:A:513:VAL:O	1:A:517:ILE:HG23	2.09	0.52
1:A:517:ILE:HG13	1:A:640:TRP:CD1	2.37	0.52
1:A:749:VAL:HG22	2:B:1007:PRO:HG3	1.91	0.52
1:A:1150:THR:CG2	9:I:48:LEU:HD23	2.18	0.52
1:A:1263:ASP:O	1:A:1266:LEU:HB2	2.09	0.52
2:B:50:VAL:HG23	2:B:51:ASP:OD1	2.09	0.52
2:B:866:PRO:HG2	2:B:879:TYR:HE1	1.74	0.52
2:B:874:MET:HG2	2:B:879:TYR:OH	2.09	0.52
8:H:33:GLN:O	8:H:35:ASP:N	2.41	0.52
1:M:10:SER:HB2	2:N:1168:TYR:OH	2.07	0.52
1:M:57:ASP:O	1:M:60:LEU:HG	2.09	0.52
1:M:118:ASP:OD1	1:M:172:HIS:HB3	2.08	0.52
1:M:158:SER:N	1:M:159:ASP:C	2.63	0.52
1:M:231:ASN:HD22	1:M:234:TYR:N	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:558:TRP:C	1:M:559:VAL:HG22	2.30	0.52
1:M:1163:ASP:O	1:M:1164:THR:CG2	2.57	0.52
1:M:1269:ILE:O	1:M:1273:MET:HG2	2.10	0.52
1:M:1328:VAL:N	1:M:1329:ASP:HA	2.22	0.52
1:M:1347:ILE:O	1:M:1350:THR:HG23	2.08	0.52
2:N:298:GLU:C	2:N:300:MET:N	2.62	0.52
2:N:325:SER:O	2:N:326:THR:HB	2.09	0.52
2:N:999:ILE:HD11	2:N:1081:TYR:CD1	2.43	0.52
2:N:1127:GLN:NE2	2:N:1127:GLN:HA	2.24	0.52
2:N:1145:ASP:HB2	2:N:1185:PRO:HB3	1.91	0.52
4:P:115:ILE:HG22	4:P:116:ASP:N	2.24	0.52
5:Q:15:TRP:CD2	5:Q:19:HIS:CE1	2.98	0.52
5:Q:71:THR:HG23	5:Q:99:HIS:CD2	2.45	0.52
5:Q:139:ILE:HG12	5:Q:140:THR:N	2.25	0.52
6:R:61:GLY:HA2	6:R:131:GLY:O	2.09	0.52
9:U:71:SER:N	9:U:83:ALA:O	2.38	0.52
10:V:31:GLU:C	10:V:33:GLU:N	2.61	0.52
1:A:148:MET:HE2	1:A:181:THR:OG1	2.10	0.52
1:A:155:SER:HA	1:A:169:ASN:CA	2.29	0.52
1:A:385:THR:HG23	1:A:437:ARG:HG3	1.91	0.52
1:A:538:ARG:O	1:A:540:PHE:N	2.41	0.52
1:A:548:THR:HG23	1:A:550:ASN:HB2	1.90	0.52
1:A:809:SER:C	1:A:811:LEU:H	2.12	0.52
1:A:975:HIS:CE1	1:A:977:GLU:HG2	2.44	0.52
1:A:996:LEU:HB2	1:A:1049:MET:CE	2.40	0.52
1:A:1118:SER:C	1:A:1314:THR:HG22	2.29	0.52
1:A:1329:ASP:OD1	1:A:1331:THR:HG22	2.10	0.52
2:B:817:LEU:HD23	2:B:818:CYS:H	1.75	0.52
2:B:973:HIS:CD2	2:B:1013:ALA:HB3	2.45	0.52
2:B:1124:ARG:O	2:B:1128:ILE:HG13	2.10	0.52
3:C:257:ALA:O	3:C:258:VAL:C	2.47	0.52
5:E:8:ILE:HG13	5:E:9:VAL:N	2.24	0.52
5:E:22:VAL:HG12	5:E:23:HIS:ND1	2.25	0.52
5:E:170:LEU:HD22	5:E:171:PRO:HD2	1.90	0.52
8:H:7:LEU:HD21	8:H:110:LYS:NZ	2.23	0.52
8:H:79:LYS:HD3	8:H:81:TYR:CE1	2.38	0.52
10:J:31:GLU:C	10:J:33:GLU:N	2.61	0.52
11:K:57:PHE:HD2	11:K:73:ARG:HG2	1.74	0.52
1:M:86:ILE:O	1:M:87:GLU:C	2.46	0.52
1:M:115:LEU:HD11	1:M:224:ASP:HB3	1.92	0.52
1:M:133:PRO:O	1:M:134:LYS:HB3	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:178:ALA:O	1:M:179:GLN:HB2	2.09	0.52
1:M:312:ASN:HD22	1:M:330:SER:HB3	1.65	0.52
1:M:720:PHE:O	1:M:724:VAL:HG23	2.09	0.52
1:M:802:SER:OG	1:M:803:ARG:N	2.41	0.52
1:M:919:ASN:O	1:M:920:SER:HB3	2.07	0.52
1:M:1075:ILE:HD13	1:M:1377:LEU:HD12	1.91	0.52
1:M:1119:LEU:HD23	1:M:1314:THR:HG21	1.91	0.52
1:M:1430:ILE:O	1:M:1434:ILE:HG12	2.09	0.52
2:N:823:ASN:O	2:N:1002:ASN:HB2	2.09	0.52
2:N:866:PRO:HG2	2:N:879:TYR:HE1	1.74	0.52
6:R:72:THR:O	6:R:72:THR:HG23	2.09	0.52
7:S:6:LYS:CG	7:S:7:GLU:N	2.72	0.52
7:S:14:LEU:CD1	7:S:27:LEU:HD23	2.40	0.52
7:S:95:VAL:HG13	7:S:131:TYR:HD2	1.72	0.52
8:T:38:LEU:HD22	8:T:39:THR:N	2.25	0.52
8:T:57:LEU:C	8:T:57:LEU:CD1	2.77	0.52
9:U:25:LEU:HD12	9:U:38:ALA:CB	2.38	0.52
12:X:21:ILE:CG2	12:X:30:ARG:HG3	2.39	0.52
1:A:405:HIS:CB	1:A:406:PRO:CD	2.54	0.52
1:A:521:GLN:OE1	1:A:1077:GLU:OE1	2.27	0.52
1:A:1144:THR:OG1	1:A:1279:LEU:HB2	2.08	0.52
1:A:1449:ILE:HD12	1:A:1449:ILE:N	2.25	0.52
2:B:552:LEU:H	2:B:552:LEU:HD22	1.75	0.52
2:B:752:GLN:O	2:B:754:PRO:HD3	2.09	0.52
2:B:775:GLN:HE22	3:C:56:VAL:HG13	1.74	0.52
2:B:1063:HIS:CD2	2:B:1065:HIS:H	2.28	0.52
7:G:14:LEU:CD1	7:G:27:LEU:HD23	2.39	0.52
8:H:38:LEU:HD22	8:H:39:THR:N	2.25	0.52
8:H:57:LEU:C	8:H:57:LEU:CD1	2.77	0.52
11:K:59:GLY:HA3	11:K:73:ARG:H	1.75	0.52
1:M:42:THR:CB	1:M:55:LEU:HB2	2.39	0.52
1:M:338:LYS:HD3	1:M:339:GLU:H	1.75	0.52
1:M:360:THR:HB	1:M:475:ARG:HD3	1.91	0.52
1:M:550:ASN:O	1:M:551:ALA:CB	2.55	0.52
1:M:661:TYR:CE1	11:W:61:LYS:HD3	2.43	0.52
1:M:812:ARG:NH1	2:N:716:VAL:CG2	2.72	0.52
1:M:812:ARG:N	1:M:813:GLY:HA2	2.23	0.52
1:M:975:HIS:CE1	1:M:977:GLU:HG2	2.45	0.52
2:N:35:LEU:H	2:N:158:MET:CE	2.22	0.52
2:N:87:PRO:HG3	2:N:157:ILE:CD1	2.29	0.52
2:N:107:ARG:NH1	12:X:47:ARG:O	2.42	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:968:LYS:HD2	2:N:1086:HIS:CE1	2.44	0.52
4:P:133:PHE:O	4:P:135:ASP:N	2.42	0.52
5:Q:8:ILE:HG13	5:Q:9:VAL:N	2.24	0.52
7:S:119:ASP:HB3	7:S:134:GLU:OE1	2.10	0.52
11:W:24:SER:HB3	11:W:25:LYS:CB	2.35	0.52
1:A:42:THR:HG22	1:A:55:LEU:HG	1.89	0.52
1:A:260:GLY:CA	2:B:924:ARG:HD3	2.38	0.52
1:A:1194:TRP:CZ2	1:A:1262:GLU:HB3	2.44	0.52
1:A:1430:ILE:HD12	1:A:1430:ILE:C	2.30	0.52
1:A:1430:ILE:O	1:A:1434:ILE:HG12	2.10	0.52
2:B:323:ARG:HG3	2:B:337:TYR:HE2	1.75	0.52
2:B:343:GLN:O	2:B:344:LYS:CB	2.58	0.52
2:B:867:VAL:O	2:B:869:SER:N	2.33	0.52
4:D:85:PHE:O	4:D:86:HIS:CD2	2.63	0.52
5:E:159:LEU:HD11	5:E:206:TYR:CD2	2.44	0.52
7:G:119:ASP:HB3	7:G:134:GLU:OE1	2.10	0.52
10:J:40:LEU:HD13	10:J:46:ARG:HB2	1.91	0.52
1:M:236:ARG:CG	1:M:239:TRP:CZ3	2.92	0.52
1:M:768:SER:HA	1:M:811:LEU:HD12	1.91	0.52
1:M:775:ILE:CG1	1:M:1089:TYR:CG	2.87	0.52
1:M:800:PRO:C	1:M:802:SER:N	2.62	0.52
2:N:386:HIS:HD2	2:N:388:GLY:CA	2.06	0.52
2:N:1180:SER:CB	2:N:1209:HIS:HD2	2.14	0.52
3:O:103:LEU:N	3:O:158:CYS:O	2.36	0.52
7:S:84:ARG:HA	7:S:148:ILE:CG2	2.40	0.52
8:T:59:ILE:CD1	8:T:113:ARG:HH22	2.23	0.52
10:V:40:LEU:HD13	10:V:46:ARG:HB2	1.90	0.52
1:A:51:ARG:HD2	1:A:57:ASP:OD1	2.10	0.52
1:A:107:CYS:C	1:A:108:VAL:HG23	2.30	0.52
1:A:158:SER:N	1:A:159:ASP:C	2.63	0.52
1:A:332:ARG:NH1	1:A:332:ARG:HG2	2.23	0.52
1:A:428:GLY:O	1:A:430:ILE:N	2.43	0.52
1:A:823:ALA:HA	2:B:753:SER:OG	2.10	0.52
1:A:1376:LEU:O	1:A:1376:LEU:HD23	2.10	0.52
2:B:1009:ARG:O	2:B:1010:MET:C	2.48	0.52
2:B:1056:ARG:NH1	3:C:201:GLU:HB3	2.25	0.52
4:D:115:ILE:HG22	4:D:116:ASP:N	2.24	0.52
5:E:54:ARG:O	5:E:55:THR:HB	2.09	0.52
7:G:94:THR:HG21	8:T:2:SER:N	2.25	0.52
9:I:55:ASN:O	9:I:57:THR:N	2.43	0.52
10:J:12:LYS:HE3	10:J:42:ARG:HH22	1.72	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:61:GLY:O	1:M:62:THR:HB	2.08	0.52
1:M:95:ILE:HD12	1:M:314:ILE:HD13	1.92	0.52
1:M:157:GLY:O	1:M:168:ALA:HA	2.10	0.52
1:M:355:ALA:CB	2:N:1093:HIS:O	2.56	0.52
1:M:459:MET:HE1	1:M:519:SER:HB2	1.92	0.52
1:M:950:PHE:HE1	5:Q:196:ARG:HA	1.75	0.52
1:M:1290:MET:CG	1:M:1310:TRP:CE3	2.91	0.52
1:M:1495:GLY:O	4:P:78:GLU:OE2	2.27	0.52
2:N:507:MET:O	2:N:509:CYS:SG	2.55	0.52
3:O:7:ILE:CD1	11:W:104:PHE:HA	2.39	0.52
5:Q:198:GLU:N	5:Q:199:THR:HA	2.24	0.52
9:U:20:LYS:NZ	9:U:21:VAL:CG2	2.73	0.52
9:U:86:TYR:CZ	9:U:100:ILE:HD11	2.45	0.52
1:A:55:LEU:CD1	1:A:56:LEU:N	2.73	0.52
1:A:202:LEU:HB3	1:A:203:PRO:HD3	1.91	0.52
1:A:262:SER:O	1:A:263:ARG:CB	2.58	0.52
1:A:457:HIS:CD2	1:A:1077:GLU:CD	2.83	0.52
1:A:720:PHE:O	1:A:724:VAL:HG23	2.09	0.52
1:A:1075:ILE:HD13	1:A:1377:LEU:HD12	1.91	0.52
1:A:1452:ASP:CG	6:F:123:LEU:HD21	2.29	0.52
2:B:219:ILE:CG2	2:B:220:ALA:N	2.50	0.52
2:B:273:ARG:HD2	2:B:310:ILE:HG21	1.91	0.52
2:B:544:LEU:HD21	2:B:566:VAL:HG11	1.92	0.52
2:B:867:VAL:O	2:B:867:VAL:HG13	2.10	0.52
3:C:7:ILE:CD1	11:K:104:PHE:HA	2.39	0.52
6:F:61:GLY:HA2	6:F:131:GLY:O	2.09	0.52
8:H:79:LYS:HE2	8:H:118:HIS:NE2	2.25	0.52
9:I:99:LEU:CD2	9:I:100:ILE:O	2.57	0.52
9:I:101:TYR:CG	9:I:110:PHE:CE1	2.98	0.52
12:L:39:ILE:HD12	12:L:39:ILE:H	1.74	0.52
1:M:161:PHE:HD2	1:M:165:ASN:CG	2.13	0.52
1:M:356:ARG:NH2	1:M:492:GLU:HB2	2.23	0.52
1:M:549:ARG:CZ	11:W:50:LEU:HD11	2.39	0.52
1:M:584:LEU:HD23	1:M:584:LEU:C	2.29	0.52
1:M:809:SER:C	1:M:811:LEU:H	2.10	0.52
3:O:45:ILE:HD11	3:O:66:LEU:O	2.10	0.52
5:Q:170:LEU:HD22	5:Q:171:PRO:HD2	1.90	0.52
7:S:151:THR:CA	7:S:160:ALA:CB	2.73	0.52
1:A:48:GLN:HB2	1:A:50:PRO:HD3	1.92	0.52
1:A:209:SER:OG	1:A:212:GLU:CD	2.48	0.52
1:A:382:TYR:N	1:A:383:PRO:HD3	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:390:ASN:HB3	1:A:394:LEU:HB2	1.92	0.52
1:A:593:ASN:O	1:A:594:LEU:HD23	2.08	0.52
1:A:1127:ILE:O	1:A:1127:ILE:HG12	2.08	0.52
1:A:1164:THR:OG1	1:A:1165:VAL:N	2.43	0.52
1:A:1259:MET:O	1:A:1259:MET:HG3	2.10	0.52
1:A:1328:VAL:CG1	1:A:1329:ASP:HA	2.38	0.52
2:B:221:TYR:HB2	2:B:243:LEU:HD13	1.92	0.52
2:B:449:THR:HG23	2:B:451:ASN:H	1.75	0.52
2:B:625:ILE:HG22	2:B:729:HIS:CD2	2.45	0.52
3:C:164:ILE:HD11	11:K:10:ILE:HD13	1.92	0.52
3:C:207:ASN:HD22	3:C:230:TYR:CB	2.23	0.52
1:M:58:PRO:O	1:M:60:LEU:HG	2.09	0.52
1:M:177:ALA:CB	1:M:178:ALA:O	2.58	0.52
1:M:537:VAL:HG12	1:M:538:ARG:N	2.23	0.52
1:M:996:LEU:HB2	1:M:1049:MET:CE	2.40	0.52
1:M:1174:GLU:CD	1:M:1242:ARG:CZ	2.77	0.52
1:M:1194:TRP:HZ2	1:M:1262:GLU:HG3	1.75	0.52
1:M:1329:ASP:OD1	1:M:1331:THR:HG22	2.10	0.52
1:M:1425:ASP:O	1:M:1427:CYS:N	2.43	0.52
2:N:38:PHE:HB3	2:N:158:MET:HE1	1.91	0.52
2:N:144:ASP:O	2:N:146:GLU:N	2.43	0.52
2:N:485:ASN:O	2:N:486:THR:HB	2.10	0.52
2:N:544:LEU:HD21	2:N:566:VAL:HG11	1.92	0.52
3:O:168:HIS:CD2	3:O:170:LYS:HB2	2.45	0.52
3:O:212:GLU:C	3:O:214:PRO:HD3	2.30	0.52
4:P:11:ALA:CB	4:P:12:GLN:C	2.63	0.52
9:U:20:LYS:O	9:U:23:ARG:N	2.43	0.52
11:W:81:SER:H	11:W:82:PRO:HA	1.75	0.52
1:A:110:TRP:HH2	1:A:180:PRO:HG2	1.73	0.52
1:A:668:PHE:CE2	1:A:752:MET:HE2	2.44	0.52
1:A:812:ARG:HB2	1:A:813:GLY:CA	2.38	0.52
1:A:856:VAL:HG11	1:A:874:TYR:HD2	1.74	0.52
1:A:916:TYR:CE1	1:A:1039:ARG:NH2	2.78	0.52
1:A:918:GLU:HB2	1:A:981:PRO:CG	2.40	0.52
1:A:947:LYS:CA	1:A:948:PHE:O	2.41	0.52
1:A:1219:ILE:HG23	1:A:1273:MET:HE1	1.91	0.52
1:A:1288:VAL:CG1	1:A:1289:TYR:N	2.73	0.52
1:A:1290:MET:SD	1:A:1310:TRP:HB3	2.50	0.52
1:A:1347:ILE:O	1:A:1350:THR:HG23	2.08	0.52
2:B:987:ASP:OD1	3:C:34:ARG:NH2	2.42	0.52
3:C:45:ILE:HD11	3:C:66:LEU:O	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:140:SER:O	3:C:141:ARG:CG	2.48	0.52
3:C:216:GLU:HB3	3:C:217:GLY:C	2.31	0.52
4:D:85:PHE:CE2	4:D:115:ILE:HG12	2.42	0.52
5:E:15:TRP:CD2	5:E:19:HIS:CE1	2.98	0.52
6:F:72:THR:HG23	6:F:72:THR:O	2.09	0.52
6:F:96:PRO:HG3	7:G:19:PHE:CB	2.30	0.52
9:I:4:PHE:CD1	9:I:27:LEU:HD22	2.43	0.52
1:M:24:LEU:HB2	2:N:1199:ASN:CA	2.39	0.52
1:M:95:ILE:HG13	1:M:314:ILE:HD11	1.87	0.52
1:M:812:ARG:N	1:M:813:GLY:CA	2.73	0.52
1:M:904:ARG:HB2	1:M:937:GLN:OE1	2.09	0.52
1:M:916:TYR:CE1	1:M:1039:ARG:NH2	2.78	0.52
1:M:1376:LEU:HD23	1:M:1376:LEU:O	2.09	0.52
2:N:263:ARG:HB3	2:N:322:LYS:HD2	1.92	0.52
2:N:449:THR:HG23	2:N:451:ASN:H	1.75	0.52
2:N:747:PHE:CD1	2:N:1033:ALA:HB1	2.45	0.52
2:N:775:GLN:HE22	3:O:56:VAL:HG13	1.75	0.52
2:N:907:ILE:CD1	2:N:924:ARG:NE	2.72	0.52
2:N:973:HIS:CD2	2:N:1013:ALA:HB3	2.45	0.52
3:O:84:LEU:H	3:O:84:LEU:HD22	1.74	0.52
3:O:103:LEU:HD23	3:O:124:VAL:HA	1.92	0.52
3:O:207:ASN:HD22	3:O:230:TYR:CB	2.23	0.52
4:P:11:ALA:CA	4:P:12:GLN:CB	2.40	0.52
4:P:84:ARG:CA	4:P:90:ARG:HD2	2.37	0.52
8:T:7:LEU:CD2	8:T:110:LYS:HD3	2.40	0.52
1:A:106:GLU:CD	1:A:144:CYS:HB3	2.30	0.51
1:A:152:THR:O	1:A:174:GLY:HA2	2.11	0.51
1:A:569:PRO:HG3	1:A:578:TRP:CZ2	2.45	0.51
1:A:950:PHE:HE1	5:E:196:ARG:HA	1.75	0.51
1:A:1085:ASN:C	1:A:1087:PHE:N	2.64	0.51
1:A:1290:MET:O	1:A:1291:MET:SD	2.69	0.51
1:A:1425:ASP:O	1:A:1427:CYS:N	2.43	0.51
1:A:1489:SER:HB3	1:A:1490:PRO:HD2	1.79	0.51
2:B:747:PHE:CD1	2:B:1033:ALA:HB1	2.45	0.51
2:B:1205:PHE:CD2	2:B:1210:LYS:CA	2.91	0.51
3:C:71:LEU:HD12	3:C:71:LEU:N	2.24	0.51
5:E:139:ILE:HG12	5:E:140:THR:N	2.25	0.51
5:E:198:GLU:CB	5:E:199:THR:CA	2.86	0.51
7:G:87:VAL:CG2	7:G:147:LYS:HG2	2.37	0.51
7:G:144:VAL:CG1	7:G:164:MET:CE	2.86	0.51
9:I:86:TYR:CZ	9:I:100:ILE:HD11	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:195:ARG:CG	1:M:196:GLY:N	2.72	0.51
1:M:262:SER:O	1:M:263:ARG:CB	2.58	0.51
1:M:388:PRO:HA	1:M:434:TYR:CZ	2.46	0.51
1:M:844:GLN:HG2	2:N:1122:MET:CE	2.40	0.51
1:M:1151:SER:O	1:M:1199:GLU:HB2	2.10	0.51
1:M:1195:LEU:HD13	1:M:1242:ARG:HD3	1.78	0.51
1:M:1430:ILE:HD12	1:M:1430:ILE:C	2.30	0.51
1:M:1433:ASN:C	1:M:1435:MET:H	2.14	0.51
2:N:294:PHE:O	2:N:298:GLU:HG3	2.10	0.51
2:N:321:GLY:O	2:N:322:LYS:HB3	2.10	0.51
2:N:363:PHE:HZ	2:N:572:TRP:H	1.58	0.51
2:N:380:GLU:OE2	9:U:91:ARG:HA	2.11	0.51
2:N:867:VAL:O	2:N:867:VAL:HG13	2.11	0.51
2:N:987:ASP:OD1	3:O:34:ARG:NH2	2.42	0.51
2:N:1124:ARG:O	2:N:1128:ILE:HG13	2.09	0.51
7:S:46:ILE:O	7:S:47:ILE:C	2.48	0.51
8:T:79:LYS:HE2	8:T:118:HIS:NE2	2.25	0.51
1:A:24:LEU:CB	2:B:1199:ASN:C	2.65	0.51
1:A:95:ILE:CB	1:A:314:ILE:HD13	2.38	0.51
1:A:115:LEU:HD11	1:A:224:ASP:HB3	1.92	0.51
1:A:120:SER:C	1:A:121:ASN:HD22	2.14	0.51
1:A:149:VAL:HG12	1:A:150:CYS:N	2.25	0.51
1:A:326:ARG:O	1:A:327:PRO:C	2.49	0.51
1:A:1155:ILE:O	9:I:43:VAL:HB	2.10	0.51
2:B:35:LEU:H	2:B:158:MET:CE	2.22	0.51
2:B:194:GLU:CB	2:B:469:LEU:HB2	2.41	0.51
2:B:212:LYS:NZ	2:B:381:PRO:HG3	2.25	0.51
2:B:968:LYS:HD2	2:B:1086:HIS:CE1	2.44	0.51
4:D:24:MET:SD	4:D:88:PHE:CA	2.96	0.51
5:E:14:ALA:CA	5:E:17:THR:HG22	2.33	0.51
7:G:10:LEU:HD22	7:G:35:VAL:HG22	1.83	0.51
7:G:90:ALA:O	7:G:143:ASN:CB	2.58	0.51
11:K:91:LYS:O	11:K:95:THR:HG22	2.11	0.51
1:M:91:PRO:CB	1:M:210:PRO:CG	2.87	0.51
1:M:102:LYS:O	1:M:105:LEU:CD2	2.54	0.51
1:M:326:ARG:O	1:M:327:PRO:C	2.49	0.51
1:M:480:VAL:HG12	1:M:484:TYR:HE1	1.73	0.51
1:M:569:PRO:HG3	1:M:578:TRP:CZ2	2.44	0.51
1:M:776:VAL:O	1:M:777:GLU:C	2.49	0.51
1:M:839:GLU:HA	1:M:842:TYR:CD2	2.43	0.51
1:M:950:PHE:CE1	5:Q:196:ARG:HA	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1006:SER:HA	1:M:1007:ASP:O	2.11	0.51
1:M:1064:GLY:CA	1:M:1065:GLU:HB2	2.39	0.51
1:M:1259:MET:O	1:M:1259:MET:HG3	2.10	0.51
2:N:24:PHE:O	2:N:28:THR:HB	2.09	0.51
2:N:538:ALA:CB	2:N:539:PRO:HD3	2.35	0.51
2:N:1009:ARG:O	2:N:1010:MET:C	2.48	0.51
2:N:1208:ASN:C	2:N:1210:LYS:H	2.13	0.51
3:O:216:GLU:HB3	3:O:217:GLY:C	2.31	0.51
4:P:24:MET:HE1	4:P:88:PHE:CD1	2.46	0.51
1:A:6:PHE:C	1:A:8:PRO:CD	2.76	0.51
1:A:91:PRO:CB	1:A:210:PRO:HG2	2.41	0.51
1:A:180:PRO:CG	1:A:193:TRP:NE1	2.70	0.51
1:A:231:ASN:ND2	1:A:234:TYR:CD2	2.75	0.51
1:A:431:PRO:O	1:A:432:LEU:CB	2.58	0.51
1:A:918:GLU:HB2	1:A:981:PRO:CB	2.40	0.51
1:A:1006:SER:HA	1:A:1007:ASP:O	2.11	0.51
1:A:1177:PHE:CD2	1:A:1230:ILE:CG2	2.93	0.51
1:A:1290:MET:HG3	1:A:1310:TRP:CE3	2.38	0.51
2:B:35:LEU:O	2:B:35:LEU:HD13	2.10	0.51
2:B:700:MET:C	2:B:702:ALA:N	2.62	0.51
8:H:74:TYR:OH	8:H:76:MET:SD	2.48	0.51
9:I:3:ASN:N	9:I:3:ASN:HD22	2.05	0.51
10:J:52:HIS:CD2	10:J:53:VAL:N	2.78	0.51
11:K:24:SER:HB3	11:K:25:LYS:CB	2.35	0.51
12:L:21:ILE:CG2	12:L:30:ARG:HG3	2.39	0.51
1:M:59:ARG:CB	1:M:60:LEU:HA	2.41	0.51
1:M:91:PRO:HB3	1:M:210:PRO:CG	2.37	0.51
1:M:93:PHE:HB3	1:M:98:LEU:HD11	1.91	0.51
1:M:342:LEU:CD1	1:M:1409:GLU:OE2	2.58	0.51
1:M:520:PRO:HG3	1:M:882:THR:HB	1.91	0.51
1:M:916:TYR:C	1:M:918:GLU:N	2.61	0.51
1:M:918:GLU:HB2	1:M:981:PRO:CG	2.40	0.51
1:M:1185:GLU:HG3	1:M:1186:GLU:H	1.76	0.51
1:M:1349:ALA:HA	5:Q:144:LEU:O	2.09	0.51
1:M:1395:ILE:O	1:M:1397:ARG:N	2.38	0.51
2:N:204:ALA:O	2:N:205:ALA:CB	2.58	0.51
2:N:1141:PHE:CE1	2:N:1185:PRO:HG2	2.46	0.51
4:P:24:MET:SD	4:P:88:PHE:CA	2.96	0.51
7:S:95:VAL:HG13	7:S:131:TYR:HE2	1.69	0.51
9:U:55:ASN:O	9:U:57:THR:N	2.43	0.51
9:U:77:ARG:O	9:U:78:CYS:C	2.48	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ARG:H	1:A:60:LEU:CG	2.23	0.51
1:A:98:LEU:O	1:A:101:ILE:CG2	2.54	0.51
1:A:183:ARG:NH2	1:A:203:PRO:HB2	2.24	0.51
1:A:381:THR:CB	1:A:382:TYR:HB3	2.41	0.51
1:A:646:GLU:N	1:A:649:LYS:H	2.07	0.51
1:A:1085:ASN:C	1:A:1087:PHE:H	2.13	0.51
1:A:1480:GLU:HG2	1:A:1481:GLY:N	2.25	0.51
1:A:1496:PHE:CE2	4:D:33:LEU:HD23	2.45	0.51
2:B:538:ALA:CB	2:B:539:PRO:HD3	2.35	0.51
2:B:876:HIS:O	2:B:877:GLY:O	2.29	0.51
2:B:1148:ARG:NH2	2:B:1163:TYR:CD2	2.79	0.51
4:D:7:GLU:HG3	4:D:15:LEU:HD23	1.93	0.51
1:M:55:LEU:CD1	1:M:56:LEU:N	2.73	0.51
1:M:89:ALA:O	1:M:90:LYS:HG2	2.10	0.51
1:M:110:TRP:CD1	1:M:110:TRP:O	2.63	0.51
1:M:653:ASN:O	1:M:657:ARG:CB	2.58	0.51
1:M:761:PHE:HA	1:M:764:ILE:HD11	1.90	0.51
1:M:1085:ASN:C	1:M:1087:PHE:N	2.64	0.51
1:M:1288:VAL:CG1	1:M:1289:TYR:N	2.73	0.51
2:N:220:ALA:C	2:N:221:TYR:CD2	2.83	0.51
2:N:907:ILE:HD11	2:N:924:ARG:NE	2.25	0.51
4:P:65:PHE:HD1	4:P:67:ARG:HH21	1.59	0.51
5:Q:64:SER:C	5:Q:66:ASP:H	2.14	0.51
9:U:101:TYR:CG	9:U:110:PHE:CE1	2.98	0.51
12:X:39:ILE:HD12	12:X:39:ILE:H	1.74	0.51
1:A:94:HIS:O	1:A:98:LEU:N	2.43	0.51
1:A:189:LEU:HB2	1:A:208:LEU:HD11	1.93	0.51
1:A:271:LYS:CB	1:A:322:GLN:HE22	2.20	0.51
1:A:338:LYS:HD3	1:A:339:GLU:H	1.75	0.51
1:A:412:ILE:O	1:A:436:TRP:HB2	2.11	0.51
1:A:449:ILE:HG12	1:A:496:HIS:O	2.11	0.51
1:A:558:TRP:HH2	11:K:61:LYS:CE	2.20	0.51
1:A:945:LEU:O	1:A:949:ILE:CG2	2.52	0.51
1:A:1101:VAL:O	1:A:1104:LEU:N	2.43	0.51
1:A:1276:SER:C	1:A:1277:ILE:HG12	2.25	0.51
2:B:190:ILE:CD1	2:B:447:LEU:HB3	2.40	0.51
2:B:220:ALA:C	2:B:221:TYR:CD2	2.83	0.51
2:B:532:SER:HB3	2:B:617:GLY:H	1.75	0.51
3:C:48:VAL:O	12:L:60:PHE:HB2	2.11	0.51
3:C:221:ASN:HD22	3:C:224:GLU:HG3	1.76	0.51
5:E:198:GLU:N	5:E:199:THR:HA	2.25	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:120:SER:C	1:M:121:ASN:HD22	2.14	0.51
1:M:336:LYS:CB	1:M:1410:GLU:OE1	2.58	0.51
1:M:388:PRO:CA	1:M:434:TYR:CE2	2.92	0.51
1:M:653:ASN:O	1:M:657:ARG:CG	2.59	0.51
1:M:710:PRO:HB3	1:M:716:LEU:HA	1.91	0.51
1:M:1133:LEU:O	1:M:1133:LEU:HD23	2.10	0.51
1:M:1169:ASP:O	1:M:1170:LYS:C	2.49	0.51
1:M:1177:PHE:CD2	1:M:1230:ILE:CG2	2.93	0.51
2:N:264:SER:H	2:N:322:LYS:HE3	1.76	0.51
2:N:591:ARG:HB3	2:N:672:GLY:HA3	1.91	0.51
2:N:696:ALA:O	2:N:700:MET:HG2	2.11	0.51
2:N:1056:ARG:NH1	3:O:201:GLU:HB3	2.25	0.51
3:O:48:VAL:O	12:X:60:PHE:HB2	2.10	0.51
3:O:79:PRO:CB	3:O:80:PRO:HA	2.40	0.51
3:O:80:PRO:CB	3:O:81:PRO:CD	2.69	0.51
3:O:221:ASN:HD22	3:O:224:GLU:HG3	1.76	0.51
4:P:25:LEU:HD12	7:S:5:LEU:N	2.25	0.51
4:P:84:ARG:O	4:P:85:PHE:CB	2.58	0.51
5:Q:128:GLU:CB	5:Q:129:THR:HB	2.40	0.51
6:R:71:THR:HG22	6:R:134:GLU:OE1	2.11	0.51
10:V:52:HIS:CD2	10:V:53:VAL:N	2.78	0.51
11:W:59:GLY:HA3	11:W:73:ARG:H	1.75	0.51
1:A:106:GLU:HB2	1:A:144:CYS:HB3	1.92	0.51
1:A:117:ILE:O	1:A:172:HIS:HB3	2.11	0.51
1:A:120:SER:OG	1:A:121:ASN:CG	2.49	0.51
1:A:133:PRO:O	1:A:134:LYS:HB3	2.09	0.51
1:A:214:HIS:O	1:A:218:THR:HG23	2.10	0.51
1:A:311:ASP:OD1	1:A:332:ARG:HD3	2.11	0.51
1:A:355:ALA:CB	2:B:1093:HIS:O	2.56	0.51
1:A:388:PRO:HB3	1:A:434:TYR:CE2	2.45	0.51
1:A:402:PRO:HB3	1:A:408:ALA:O	2.10	0.51
1:A:525:PRO:CD	1:A:637:HIS:ND1	2.57	0.51
1:A:605:ASN:N	1:A:605:ASN:ND2	2.59	0.51
1:A:847:LEU:HB3	1:A:1072:ALA:HB1	1.93	0.51
1:A:1119:LEU:HD23	1:A:1314:THR:HG21	1.91	0.51
1:A:1161:PRO:HG2	1:A:1190:LYS:HG2	0.54	0.51
1:A:1452:ASP:CG	6:F:123:LEU:HD11	2.28	0.51
2:B:12:LEU:C	2:B:12:LEU:HD13	2.30	0.51
2:B:238:SER:O	2:B:239:MET:HG2	2.10	0.51
2:B:812:ALA:O	2:B:814:VAL:N	2.44	0.51
2:B:847:THR:HG23	2:B:956:ARG:HG3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:879:TYR:N	2:B:879:TYR:CD2	2.78	0.51
2:B:1017:GLU:OE2	2:B:1080:TYR:CE2	2.63	0.51
2:B:1127:GLN:HA	2:B:1127:GLN:NE2	2.24	0.51
2:B:1208:ASN:C	2:B:1210:LYS:H	2.13	0.51
3:C:103:LEU:HD23	3:C:124:VAL:HA	1.92	0.51
4:D:25:LEU:HD12	7:G:5:LEU:N	2.26	0.51
6:F:71:THR:HG22	6:F:134:GLU:OE1	2.11	0.51
8:H:10:ILE:O	8:H:10:ILE:HG13	2.09	0.51
8:H:59:ILE:CD1	8:H:113:ARG:HH22	2.23	0.51
10:J:30:THR:HB	10:J:34:ALA:HB2	1.93	0.51
10:J:42:ARG:HH11	10:J:42:ARG:CG	2.11	0.51
1:M:56:LEU:C	1:M:56:LEU:CD1	2.77	0.51
1:M:95:ILE:CD1	1:M:187:LEU:CD1	2.84	0.51
1:M:412:ILE:O	1:M:436:TRP:HB2	2.11	0.51
1:M:428:GLY:O	1:M:430:ILE:N	2.43	0.51
1:M:537:VAL:HG11	1:M:623:VAL:HG12	1.93	0.51
1:M:701:GLN:O	1:M:705:HIS:HD2	1.94	0.51
1:M:918:GLU:HB2	1:M:981:PRO:CB	2.40	0.51
1:M:963:VAL:CG1	1:M:966:ILE:HD11	2.39	0.51
1:M:1101:VAL:O	1:M:1104:LEU:N	2.43	0.51
1:M:1166:ILE:HA	1:M:1167:GLU:HB3	0.63	0.51
1:M:1384:ARG:HD2	1:M:1388:MET:SD	2.51	0.51
1:M:1450:TYR:HA	7:S:60:GLY:O	2.11	0.51
2:N:30:LEU:HD23	2:N:482:ARG:HH22	1.75	0.51
2:N:35:LEU:O	2:N:35:LEU:HD13	2.10	0.51
2:N:37:SER:OG	2:N:396:GLY:HA3	2.09	0.51
2:N:221:TYR:HB2	2:N:243:LEU:HD13	1.93	0.51
2:N:532:SER:HB3	2:N:617:GLY:H	1.75	0.51
2:N:552:LEU:H	2:N:552:LEU:HD22	1.75	0.51
2:N:812:ALA:O	2:N:814:VAL:N	2.44	0.51
2:N:823:ASN:HB3	2:N:829:ILE:CG2	2.30	0.51
5:Q:22:VAL:HG12	5:Q:23:HIS:ND1	2.25	0.51
11:W:57:PHE:HD2	11:W:73:ARG:HG2	1.74	0.51
11:W:78:GLU:O	11:W:79:ASP:HB3	2.11	0.51
11:W:91:LYS:O	11:W:95:THR:HG22	2.11	0.51
1:A:82:HIS:H	1:A:249:PRO:HB3	1.76	0.51
1:A:459:MET:HE1	1:A:519:SER:HB2	1.92	0.51
1:A:537:VAL:HG11	1:A:623:VAL:HG12	1.93	0.51
1:A:581:LYS:O	1:A:582:GLN:C	2.48	0.51
1:A:810:TYR:CD2	2:B:751:ASN:O	2.63	0.51
1:A:922:GLU:HB3	1:A:923:ASN:CA	2.39	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1071:ALA:HB1	1:A:1373:HIS:CD2	2.42	0.51
1:A:1104:LEU:CD1	1:A:1108:LEU:CD1	2.88	0.51
2:B:391:ARG:HH12	2:B:615:ASP:HB3	1.73	0.51
2:B:427:GLU:O	2:B:428:PHE:HD1	1.92	0.51
2:B:854:LYS:NZ	2:B:950:LEU:HD11	2.25	0.51
3:C:79:PRO:CB	3:C:80:PRO:HA	2.40	0.51
5:E:128:GLU:CB	5:E:129:THR:HB	2.40	0.51
1:M:594:LEU:HB2	1:M:613:ILE:HG12	1.92	0.51
2:N:50:VAL:HG23	2:N:51:ASP:OD1	2.09	0.51
2:N:190:ILE:HD13	2:N:447:LEU:HB3	1.92	0.51
2:N:238:SER:O	2:N:239:MET:HG2	2.10	0.51
2:N:625:ILE:HG22	2:N:729:HIS:CD2	2.45	0.51
2:N:847:THR:HG23	2:N:956:ARG:HG3	1.93	0.51
4:P:7:GLU:HG3	4:P:15:LEU:HD23	1.93	0.51
4:P:10:ALA:CA	7:S:84:ARG:O	2.58	0.51
6:R:64:VAL:HB	6:R:133:TYR:O	2.11	0.51
7:S:100:PHE:CE1	7:S:131:TYR:CD2	2.99	0.51
8:T:62:ASN:CB	8:T:63:LEU:HB2	2.24	0.51
1:A:520:PRO:HG3	1:A:882:THR:HB	1.92	0.51
1:A:1114:ILE:O	1:A:1116:THR:N	2.44	0.51
1:A:1185:GLU:HG3	1:A:1186:GLU:H	1.75	0.51
1:A:1480:GLU:OE2	4:D:44:GLU:HG2	2.06	0.51
1:A:1485:PRO:O	1:A:1486:TYR:CD1	2.63	0.51
2:B:294:PHE:O	2:B:298:GLU:HG3	2.11	0.51
2:B:696:ALA:O	2:B:700:MET:HG2	2.11	0.51
2:B:741:LEU:HD22	2:B:760:SER:CA	2.39	0.51
2:B:899:ILE:C	2:B:899:ILE:CD1	2.79	0.51
2:B:1124:ARG:HD3	2:B:1128:ILE:HD11	1.93	0.51
3:C:212:GLU:C	3:C:214:PRO:HD3	2.30	0.51
11:K:81:SER:H	11:K:82:PRO:HA	1.75	0.51
1:M:180:PRO:CA	1:M:192:SER:O	2.59	0.51
1:M:231:ASN:ND2	1:M:234:TYR:CD2	2.74	0.51
1:M:552:VAL:O	1:M:553:MET:C	2.49	0.51
1:M:812:ARG:O	2:N:715:ARG:NE	2.43	0.51
1:M:1085:ASN:C	1:M:1087:PHE:H	2.13	0.51
1:M:1291:MET:HA	1:M:1291:MET:HE3	1.93	0.51
1:M:1295:ILE:HD13	1:M:1309:GLU:OE2	2.10	0.51
1:M:1404:MET:SD	1:M:1429:GLY:CA	2.95	0.51
2:N:879:TYR:CD2	2:N:879:TYR:N	2.78	0.51
5:Q:14:ALA:CA	5:Q:17:THR:HG22	2.33	0.51
8:T:13:VAL:HA	8:T:28:THR:O	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:42:ARG:HB3	10:V:44:CYS:HB2	1.93	0.51
1:A:62:THR:CG2	1:A:63:ILE:N	2.74	0.51
1:A:94:HIS:CD2	1:A:97:PHE:CD2	2.98	0.51
1:A:820:PHE:CZ	2:B:500:LEU:CD1	2.94	0.51
1:A:963:VAL:CG1	1:A:966:ILE:HD11	2.39	0.51
1:A:971:LEU:HD11	1:A:1038:TYR:CB	2.41	0.51
1:A:1114:ILE:O	1:A:1115:LYS:C	2.47	0.51
1:A:1290:MET:SD	1:A:1312:LEU:HD23	2.50	0.51
1:A:1496:PHE:HB3	4:D:29:GLU:CD	2.30	0.51
2:B:11:THR:O	2:B:12:LEU:HB3	2.11	0.51
2:B:300:MET:O	2:B:301:LYS:C	2.49	0.51
2:B:342:LEU:HA	2:B:346:LEU:HB2	1.93	0.51
2:B:591:ARG:HB3	2:B:672:GLY:HA3	1.91	0.51
2:B:907:ILE:CD1	2:B:924:ARG:NE	2.73	0.51
3:C:95:TYR:HE2	3:C:161:LYS:HE2	1.76	0.51
4:D:10:ALA:CA	7:G:84:ARG:O	2.58	0.51
8:H:37:ASN:C	8:H:37:ASN:OD1	2.49	0.51
9:I:25:LEU:CD1	9:I:38:ALA:HB1	2.39	0.51
1:M:42:THR:HG22	1:M:55:LEU:HG	1.89	0.51
1:M:118:ASP:N	1:M:118:ASP:OD1	2.41	0.51
1:M:120:SER:OG	1:M:121:ASN:CG	2.49	0.51
1:M:271:LYS:CB	1:M:322:GLN:HE22	2.20	0.51
1:M:449:ILE:HG12	1:M:496:HIS:O	2.11	0.51
1:M:480:VAL:HG12	1:M:484:TYR:CE1	2.46	0.51
1:M:551:ALA:HA	1:M:552:VAL:C	2.31	0.51
1:M:668:PHE:CE2	1:M:752:MET:HE2	2.45	0.51
1:M:773:GLN:HB2	1:M:805:PHE:HB2	1.93	0.51
1:M:919:ASN:ND2	1:M:919:ASN:N	2.54	0.51
1:M:1194:TRP:CZ2	1:M:1262:GLU:CB	2.91	0.51
1:M:1290:MET:O	1:M:1291:MET:SD	2.68	0.51
1:M:1328:VAL:CG1	1:M:1329:ASP:HA	2.38	0.51
1:M:1412:VAL:O	1:M:1414:ILE:N	2.44	0.51
2:N:322:LYS:O	2:N:322:LYS:HG3	2.11	0.51
2:N:343:GLN:O	2:N:344:LYS:CB	2.58	0.51
3:O:168:HIS:CD2	3:O:170:LYS:HB3	2.46	0.51
4:P:51:MET:O	4:P:55:MET:CB	2.56	0.51
7:S:23:MET:SD	7:S:71:PHE:CZ	3.04	0.51
7:S:87:VAL:CG2	7:S:147:LYS:HG2	2.37	0.51
10:V:30:THR:HB	10:V:34:ALA:HB2	1.93	0.51
1:A:33:SER:HB2	1:A:85:HIS:H	1.75	0.51
1:A:42:THR:HB	1:A:55:LEU:HG	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:ASP:OD1	1:A:172:HIS:HB3	2.10	0.51
1:A:161:PHE:HD2	1:A:165:ASN:CG	2.13	0.51
1:A:352:ASP:O	1:A:353:PHE:C	2.49	0.51
1:A:558:TRP:HH2	11:K:61:LYS:CG	2.22	0.51
1:A:646:GLU:N	1:A:648:CYS:H	2.09	0.51
1:A:653:ASN:O	1:A:657:ARG:CB	2.58	0.51
1:A:1064:GLY:CA	1:A:1065:GLU:HB2	2.39	0.51
2:B:297:LEU:O	2:B:300:MET:HG2	2.11	0.51
2:B:401:SER:HA	2:B:404:ARG:HH11	1.74	0.51
2:B:525:LEU:HB3	2:B:529:SER:OG	2.11	0.51
2:B:568:VAL:O	2:B:568:VAL:HG12	2.11	0.51
2:B:699:GLN:HB3	2:B:704:TYR:HB2	1.93	0.51
5:E:45:HIS:HE1	5:E:57:LEU:HD12	1.71	0.51
5:E:64:SER:C	5:E:66:ASP:H	2.14	0.51
5:E:71:THR:HG23	5:E:99:HIS:CD2	2.45	0.51
7:G:39:CYS:SG	7:G:45:TYR:HA	2.51	0.51
10:J:42:ARG:O	10:J:43:TYR:C	2.49	0.51
1:M:257:SER:O	1:M:259:ASP:N	2.43	0.51
1:M:311:ASP:OD1	1:M:332:ARG:HD3	2.11	0.51
1:M:581:LYS:O	1:M:582:GLN:C	2.48	0.51
1:M:1227:LEU:HD23	1:M:1244:ARG:O	2.11	0.51
1:M:1263:ASP:O	1:M:1266:LEU:N	2.30	0.51
1:M:1504:ALA:O	1:M:1507:PRO:HD2	2.11	0.51
2:N:190:ILE:CD1	2:N:447:LEU:HB3	2.40	0.51
2:N:229:LEU:HD12	2:N:231:ARG:HB3	1.93	0.51
2:N:313:LYS:O	2:N:317:LEU:HD13	2.11	0.51
2:N:699:GLN:HB3	2:N:704:TYR:HB2	1.93	0.51
2:N:816:ILE:HG23	2:N:1001:ILE:CD1	2.41	0.51
2:N:1206:THR:O	2:N:1207:LYS:O	2.29	0.51
4:P:130:LEU:C	4:P:132:LYS:N	2.64	0.51
7:S:39:CYS:SG	7:S:45:TYR:HA	2.51	0.51
7:S:90:ALA:O	7:S:143:ASN:CB	2.58	0.51
8:T:54:THR:HG23	8:T:55:PHE:CD2	2.46	0.51
10:V:42:ARG:O	10:V:43:TYR:C	2.49	0.51
1:A:42:THR:CB	1:A:55:LEU:HG	2.40	0.50
1:A:85:HIS:CB	1:A:244:VAL:CG1	2.74	0.50
1:A:118:ASP:N	1:A:118:ASP:OD1	2.41	0.50
1:A:231:ASN:HD22	1:A:234:TYR:N	2.07	0.50
1:A:816:PRO:HG2	2:B:689:MET:CE	2.41	0.50
1:A:1185:GLU:HG3	1:A:1186:GLU:N	2.26	0.50
1:A:1227:LEU:HD23	1:A:1244:ARG:O	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:204:ALA:O	2:B:205:ALA:CB	2.58	0.50
2:B:298:GLU:C	2:B:300:MET:N	2.62	0.50
2:B:469:LEU:O	2:B:469:LEU:HD23	2.12	0.50
3:C:168:HIS:CD2	3:C:170:LYS:HB2	2.45	0.50
7:G:46:ILE:O	7:G:47:ILE:C	2.48	0.50
7:G:100:PHE:CE1	7:G:131:TYR:CD2	2.99	0.50
7:G:147:LYS:HD2	7:G:166:GLU:HB2	1.93	0.50
1:M:11:VAL:HG12	2:N:1179:PHE:HB2	1.92	0.50
1:M:59:ARG:H	1:M:60:LEU:CG	2.24	0.50
1:M:59:ARG:N	1:M:60:LEU:CG	2.74	0.50
1:M:87:GLU:O	1:M:88:LEU:CB	2.59	0.50
1:M:95:ILE:C	1:M:98:LEU:HB2	2.28	0.50
1:M:117:ILE:O	1:M:172:HIS:HB3	2.11	0.50
1:M:352:ASP:HA	2:N:1095:ARG:CG	2.41	0.50
1:M:387:THR:C	1:M:389:TYR:H	2.13	0.50
1:M:822:HIS:NE2	2:N:752:GLN:O	2.44	0.50
1:M:855:MET:HG3	1:M:1066:MET:N	2.26	0.50
1:M:1070:LEU:CD1	1:M:1071:ALA:N	2.67	0.50
1:M:1144:THR:O	1:M:1145:THR:CG2	2.58	0.50
2:N:229:LEU:HD23	2:N:229:LEU:H	1.76	0.50
2:N:297:LEU:O	2:N:300:MET:HG2	2.11	0.50
2:N:525:LEU:HB3	2:N:529:SER:OG	2.11	0.50
4:P:54:VAL:O	4:P:58:THR:HG23	2.12	0.50
9:U:57:THR:HA	9:U:58:VAL:CB	2.40	0.50
1:A:134:LYS:HG2	1:A:134:LYS:O	2.11	0.50
1:A:368:ASP:OD1	1:A:649:LYS:CE	2.60	0.50
1:A:547:LEU:HB2	1:A:578:TRP:HB2	1.94	0.50
1:A:551:ALA:HA	1:A:552:VAL:C	2.31	0.50
1:A:558:TRP:C	1:A:559:VAL:HG22	2.30	0.50
1:A:710:PRO:HB3	1:A:716:LEU:HA	1.91	0.50
1:A:785:PHE:CD1	1:A:785:PHE:N	2.60	0.50
1:A:792:HIS:HB3	1:A:817:GLN:NE2	2.26	0.50
1:A:869:ILE:CD1	1:A:872:PHE:CE2	2.91	0.50
1:A:879:LEU:CD1	1:A:960:PRO:CG	2.79	0.50
1:A:1412:VAL:O	1:A:1414:ILE:N	2.43	0.50
2:B:16:ASP:CA	2:B:19:THR:HG22	2.41	0.50
2:B:190:ILE:HD13	2:B:447:LEU:HB3	1.92	0.50
2:B:212:LYS:HZ1	2:B:381:PRO:CG	2.22	0.50
2:B:229:LEU:HB2	2:B:231:ARG:H	1.76	0.50
2:B:651:ASP:OD2	2:B:662:ARG:CA	2.59	0.50
3:C:80:PRO:CB	3:C:81:PRO:CD	2.69	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:54:VAL:O	4:D:58:THR:HG23	2.11	0.50
5:E:74:ILE:HA	5:E:103:ILE:CG1	2.41	0.50
6:F:75:MET:HB2	6:F:141:LEU:HB3	1.93	0.50
7:G:128:PRO:O	7:G:129:PRO:C	2.49	0.50
9:I:8:ILE:O	9:I:9:GLU:CB	2.60	0.50
9:I:23:ARG:O	9:I:24:VAL:HG23	2.11	0.50
9:I:33:ASP:O	9:I:34:TYR:C	2.49	0.50
9:I:79:HIS:HD2	9:I:80:GLN:NE2	2.05	0.50
1:M:402:PRO:HB3	1:M:408:ALA:O	2.10	0.50
1:M:587:ILE:HD12	1:M:587:ILE:C	2.32	0.50
1:M:1071:ALA:CB	1:M:1373:HIS:CG	2.94	0.50
1:M:1179:ILE:C	1:M:1181:ASP:H	2.14	0.50
1:M:1185:GLU:HG3	1:M:1186:GLU:N	2.27	0.50
1:M:1242:ARG:O	1:M:1243:CYS:SG	2.68	0.50
1:M:1425:ASP:C	1:M:1427:CYS:N	2.65	0.50
1:M:1498:GLY:HA3	1:M:1500:PRO:HD2	1.79	0.50
2:N:16:ASP:O	2:N:19:THR:CG2	2.60	0.50
2:N:149:LYS:O	2:N:149:LYS:HG3	2.12	0.50
2:N:229:LEU:HB2	2:N:231:ARG:H	1.76	0.50
2:N:229:LEU:HB2	2:N:231:ARG:N	2.26	0.50
2:N:297:LEU:O	2:N:300:MET:N	2.32	0.50
2:N:438:ILE:HG12	2:N:439:ILE:HG12	1.94	0.50
2:N:469:LEU:O	2:N:469:LEU:HD23	2.11	0.50
2:N:651:ASP:OD2	2:N:662:ARG:CA	2.60	0.50
2:N:990:PHE:CD1	3:O:179:PHE:HE2	2.29	0.50
2:N:1017:GLU:OE2	2:N:1080:TYR:CE2	2.63	0.50
3:O:164:ILE:HD11	11:W:10:ILE:HD13	1.92	0.50
7:S:144:VAL:HG13	7:S:170:GLY:CA	2.41	0.50
8:T:14:THR:HG23	8:T:28:THR:OG1	2.11	0.50
9:U:20:LYS:NZ	9:U:21:VAL:HG23	2.26	0.50
1:A:11:VAL:HG12	2:B:1179:PHE:HB2	1.93	0.50
1:A:16:VAL:CG2	2:B:1182:VAL:HG21	2.42	0.50
1:A:25:SER:HB2	1:A:26:PRO:HD2	1.94	0.50
1:A:94:HIS:O	1:A:95:ILE:C	2.50	0.50
1:A:94:HIS:NE2	1:A:97:PHE:CD2	2.79	0.50
1:A:110:TRP:CZ2	1:A:180:PRO:CG	2.94	0.50
1:A:178:ALA:C	1:A:179:GLN:CG	2.79	0.50
1:A:342:LEU:CD1	1:A:1409:GLU:OE2	2.59	0.50
1:A:506:GLU:O	1:A:508:GLN:N	2.45	0.50
1:A:552:VAL:O	1:A:553:MET:C	2.49	0.50
1:A:1169:ASP:O	1:A:1170:LYS:C	2.49	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1179:ILE:C	1:A:1181:ASP:H	2.14	0.50
1:A:1425:ASP:C	1:A:1427:CYS:N	2.65	0.50
2:B:41:PHE:HD2	2:B:42:VAL:HG23	1.76	0.50
2:B:229:LEU:HB2	2:B:231:ARG:N	2.27	0.50
2:B:269:VAL:HG21	2:B:304:ILE:HA	1.94	0.50
2:B:485:ASN:O	2:B:486:THR:HB	2.10	0.50
2:B:970:ALA:HB2	2:B:976:LYS:HA	1.93	0.50
2:B:1066:THR:HG23	2:B:1068:ARG:H	1.77	0.50
1:M:42:THR:HG21	1:M:55:LEU:HB2	1.73	0.50
1:M:48:GLN:HG3	1:M:50:PRO:HD3	1.91	0.50
1:M:62:THR:CG2	1:M:63:ILE:N	2.74	0.50
1:M:168:ALA:O	1:M:169:ASN:CB	2.58	0.50
1:M:352:ASP:O	1:M:353:PHE:C	2.49	0.50
1:M:381:THR:CB	1:M:382:TYR:HB3	2.40	0.50
1:M:387:THR:O	1:M:391:ILE:HD12	2.11	0.50
1:M:547:LEU:HB2	1:M:578:TRP:HB2	1.94	0.50
1:M:1164:THR:OG1	1:M:1165:VAL:N	2.43	0.50
4:P:117:ASP:O	4:P:119:ASN:N	2.44	0.50
9:U:5:GLN:O	9:U:14:LEU:CD1	2.59	0.50
1:A:5:GLN:C	1:A:8:PRO:HD3	2.31	0.50
1:A:349:LYS:HE2	2:B:1106:GLN:NE2	2.27	0.50
1:A:793:PHE:CE1	1:A:817:GLN:OE1	2.65	0.50
1:A:1151:SER:O	1:A:1199:GLU:HB2	2.10	0.50
1:A:1433:ASN:C	1:A:1435:MET:H	2.14	0.50
2:B:144:ASP:O	2:B:146:GLU:N	2.43	0.50
2:B:1206:THR:O	2:B:1207:LYS:O	2.29	0.50
3:C:130:LEU:CD1	3:C:130:LEU:H	2.21	0.50
3:C:168:HIS:CD2	3:C:170:LYS:HB3	2.46	0.50
4:D:11:ALA:CB	4:D:12:GLN:C	2.63	0.50
4:D:130:LEU:C	4:D:132:LYS:N	2.64	0.50
7:G:84:ARG:HA	7:G:148:ILE:CG2	2.40	0.50
7:G:164:MET:HE3	7:G:170:GLY:N	2.26	0.50
9:I:96:MET:SD	9:I:96:MET:N	2.79	0.50
12:L:23:LEU:O	12:L:49:MET:HA	2.12	0.50
1:M:42:THR:HB	1:M:55:LEU:HG	1.93	0.50
1:M:117:ILE:CD1	1:M:143:VAL:HG11	2.42	0.50
1:M:162:ASP:OD1	1:M:162:ASP:N	2.45	0.50
1:M:311:ASP:HB2	1:M:314:ILE:HG13	1.84	0.50
1:M:728:LEU:HD11	1:M:800:PRO:HG3	1.94	0.50
1:M:947:LYS:CA	1:M:948:PHE:O	2.41	0.50
1:M:1142:GLU:O	1:M:1281:GLY:CA	2.53	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1280:ARG:CZ	5:Q:6:LYS:NZ	2.74	0.50
2:N:208:VAL:O	2:N:208:VAL:HG12	2.11	0.50
2:N:284:LEU:HD11	2:N:300:MET:HE2	1.94	0.50
2:N:300:MET:O	2:N:301:LYS:C	2.49	0.50
2:N:537:SER:O	2:N:540:ILE:HG12	2.11	0.50
2:N:605:ILE:CB	9:U:61:ASP:CB	2.81	0.50
2:N:605:ILE:CG2	9:U:61:ASP:CB	2.90	0.50
2:N:838:GLY:HA2	2:N:841:ARG:CD	2.41	0.50
2:N:840:PHE:N	2:N:840:PHE:CD1	2.79	0.50
2:N:854:LYS:NZ	2:N:950:LEU:HD11	2.25	0.50
5:Q:199:THR:N	5:Q:200:SER:C	2.48	0.50
7:S:128:PRO:O	7:S:129:PRO:C	2.49	0.50
7:S:130:ASN:HB3	7:S:139:GLU:CG	2.35	0.50
9:U:25:LEU:CB	9:U:38:ALA:HB3	2.33	0.50
1:A:461:MET:HE2	2:B:1126:CYS:HB2	1.93	0.50
1:A:729:ASN:O	1:A:733:ASP:OD1	2.30	0.50
1:A:743:LEU:O	1:A:744:LYS:C	2.50	0.50
1:A:1066:MET:CE	1:A:1442:MET:HA	2.31	0.50
1:A:1071:ALA:CB	1:A:1373:HIS:CG	2.94	0.50
1:A:1449:ILE:HG22	6:F:123:LEU:O	2.12	0.50
1:A:1459:TYR:O	1:A:1460:SER:C	2.50	0.50
2:B:149:LYS:HG3	2:B:149:LYS:O	2.12	0.50
3:C:84:LEU:HD22	3:C:84:LEU:H	1.75	0.50
4:D:88:PHE:HZ	7:G:86:GLU:HG2	1.72	0.50
4:D:92:GLN:O	4:D:96:LEU:HD23	2.11	0.50
5:E:21:LEU:O	5:E:22:VAL:HG23	2.11	0.50
7:G:23:MET:SD	7:G:71:PHE:CZ	3.04	0.50
10:J:42:ARG:HB3	10:J:44:CYS:HB2	1.93	0.50
1:M:16:VAL:CG2	2:N:1182:VAL:HG21	2.42	0.50
1:M:605:ASN:N	1:M:605:ASN:ND2	2.58	0.50
1:M:780:ARG:O	1:M:781:ILE:O	2.30	0.50
1:M:858:TYR:CD2	1:M:1063:PRO:HG2	2.46	0.50
1:M:1083:THR:HB	1:M:1101:VAL:HB	1.94	0.50
2:N:12:LEU:HD13	2:N:12:LEU:C	2.30	0.50
2:N:13:THR:HG22	2:N:16:ASP:OD2	2.12	0.50
2:N:194:GLU:CB	2:N:469:LEU:HB2	2.41	0.50
2:N:288:CYS:HB3	2:N:297:LEU:CD2	2.32	0.50
2:N:296:MET:HE2	2:N:372:LEU:HB3	1.80	0.50
2:N:341:ILE:HG22	2:N:346:LEU:CD2	2.38	0.50
4:P:92:GLN:O	4:P:96:LEU:HD23	2.11	0.50
5:Q:118:ILE:HD12	5:Q:118:ILE:N	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:S:144:VAL:HG12	7:S:146:LEU:CD1	2.42	0.50
9:U:58:VAL:CG1	9:U:60:HIS:HB2	2.42	0.50
10:V:2:ILE:CG2	10:V:56:ILE:HG12	2.42	0.50
1:A:40:PRO:CG	1:A:276:ILE:HG21	2.37	0.50
1:A:181:THR:HG22	1:A:182:ILE:N	2.22	0.50
1:A:512:MET:O	1:A:513:VAL:C	2.50	0.50
1:A:653:ASN:O	1:A:657:ARG:CG	2.59	0.50
1:A:812:ARG:H	1:A:813:GLY:HA2	1.75	0.50
1:A:947:LYS:HD2	1:A:947:LYS:N	2.26	0.50
1:A:1082:MET:CG	1:A:1362:ILE:HA	2.40	0.50
1:A:1149:VAL:O	1:A:1151:SER:N	2.45	0.50
1:A:1474:GLY:O	1:A:1475:THR:OG1	2.30	0.50
2:B:234:ARG:HH21	2:B:408:ARG:CZ	2.25	0.50
2:B:310:ILE:HB	2:B:311:GLN:C	2.26	0.50
2:B:816:ILE:HG23	2:B:1001:ILE:CD1	2.41	0.50
2:B:840:PHE:N	2:B:840:PHE:CD1	2.79	0.50
3:C:80:PRO:O	3:C:83:GLY:O	2.30	0.50
4:D:117:ASP:O	4:D:119:ASN:N	2.44	0.50
7:G:130:ASN:HB3	7:G:139:GLU:CG	2.35	0.50
8:H:14:THR:HG23	8:H:28:THR:OG1	2.11	0.50
9:I:57:THR:HA	9:I:58:VAL:CB	2.41	0.50
1:M:15:ARG:HH11	1:M:1438:GLN:HE22	1.51	0.50
1:M:40:PRO:CG	1:M:276:ILE:HG21	2.37	0.50
1:M:134:LYS:O	1:M:134:LYS:HG2	2.11	0.50
1:M:431:PRO:O	1:M:432:LEU:CB	2.58	0.50
1:M:488:PHE:O	2:N:978:THR:CG2	2.60	0.50
1:M:520:PRO:HB3	1:M:882:THR:HB	1.92	0.50
1:M:522:SER:O	1:M:523:ASN:ND2	2.44	0.50
1:M:1065:GLU:O	1:M:1066:MET:CB	2.57	0.50
1:M:1219:ILE:HG23	1:M:1273:MET:HE1	1.92	0.50
1:M:1450:TYR:HE2	6:R:125:ARG:CG	2.23	0.50
1:M:1492:VAL:HG11	4:P:75:TYR:OH	2.12	0.50
4:P:133:PHE:C	4:P:135:ASP:N	2.65	0.50
5:Q:21:LEU:HD21	5:Q:25:ARG:NE	2.21	0.50
5:Q:21:LEU:O	5:Q:22:VAL:HG23	2.11	0.50
1:A:30:ARG:HG3	1:A:244:VAL:CG2	2.36	0.50
1:A:81:GLY:CA	1:A:249:PRO:HB2	2.40	0.50
1:A:432:LEU:O	1:A:433:ARG:O	2.30	0.50
1:A:488:PHE:O	2:B:978:THR:CG2	2.60	0.50
1:A:553:MET:CE	11:K:58:ALA:HB3	2.42	0.50
1:A:587:ILE:C	1:A:587:ILE:HD12	2.32	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:701:GLN:O	1:A:705:HIS:HD2	1.94	0.50
1:A:728:LEU:HD11	1:A:800:PRO:HG3	1.94	0.50
1:A:902:LYS:HB3	1:A:903:TYR:CD1	2.47	0.50
1:A:1106:GLU:CD	1:A:1114:ILE:HA	2.31	0.50
2:B:229:LEU:HD23	2:B:229:LEU:H	1.76	0.50
2:B:298:GLU:C	2:B:300:MET:H	2.15	0.50
2:B:990:PHE:CD1	3:C:179:PHE:HE2	2.29	0.50
8:H:117:ASP:O	8:H:118:HIS:O	2.30	0.50
1:M:5:GLN:C	1:M:8:PRO:HD3	2.31	0.50
1:M:390:ASN:HB3	1:M:394:LEU:HB2	1.92	0.50
1:M:803:ARG:O	1:M:804:GLY:O	2.30	0.50
1:M:1149:VAL:O	1:M:1151:SER:N	2.45	0.50
2:N:1066:THR:HG23	2:N:1068:ARG:H	1.76	0.50
2:N:1124:ARG:HD3	2:N:1128:ILE:HD11	1.93	0.50
5:Q:74:ILE:HA	5:Q:103:ILE:CG1	2.41	0.50
7:S:19:PHE:O	7:S:20:GLY:O	2.30	0.50
8:T:33:GLN:O	8:T:35:ASP:N	2.41	0.50
9:U:75:CYS:O	9:U:76:PRO:O	2.30	0.50
10:V:2:ILE:HG23	10:V:56:ILE:HG12	1.94	0.50
1:A:116:LYS:O	1:A:117:ILE:O	2.30	0.50
1:A:126:ASP:C	1:A:130:TYR:CE2	2.85	0.50
1:A:457:HIS:CA	1:A:1077:GLU:OE2	2.59	0.50
1:A:919:ASN:H	1:A:919:ASN:HD22	1.59	0.50
1:A:1216:ALA:HA	1:A:1219:ILE:CD1	2.42	0.50
2:B:537:SER:O	2:B:540:ILE:HG12	2.11	0.50
2:B:869:SER:O	3:O:261:ARG:NH2	2.45	0.50
4:D:86:HIS:O	4:D:89:GLU:N	2.45	0.50
4:D:111:LEU:O	4:D:112:ALA:O	2.30	0.50
6:F:60:SER:O	6:F:61:GLY:O	2.30	0.50
7:G:6:LYS:CG	7:G:7:GLU:H	2.25	0.50
12:L:31:ASN:O	12:L:32:THR:C	2.50	0.50
1:M:42:THR:CB	1:M:55:LEU:HG	2.41	0.50
1:M:114:LYS:O	1:M:115:LEU:O	2.30	0.50
1:M:151:ASP:O	1:M:152:THR:O	2.30	0.50
1:M:461:MET:HE2	2:N:1126:CYS:HB2	1.93	0.50
1:M:506:GLU:O	1:M:508:GLN:N	2.45	0.50
1:M:1114:ILE:O	1:M:1116:THR:N	2.44	0.50
1:M:1161:PRO:HG2	1:M:1190:LYS:HG2	0.54	0.50
2:N:220:ALA:C	2:N:221:TYR:HD2	2.15	0.50
2:N:775:GLN:NE2	3:O:56:VAL:HG13	2.27	0.50
8:T:57:LEU:HD12	8:T:57:LEU:O	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:V:37:LYS:C	10:V:38:LEU:HD12	2.32	0.50
11:W:34:LEU:HD12	11:W:70:PHE:CZ	2.47	0.50
1:A:11:VAL:O	1:A:12:PRO:O	2.30	0.50
1:A:268:LEU:H	1:A:328:LEU:CD2	2.25	0.50
1:A:522:SER:O	1:A:523:ASN:ND2	2.44	0.50
1:A:528:GLY:O	1:A:530:VAL:HG23	2.12	0.50
1:A:588:ILE:HD11	1:A:616:GLY:HA2	1.94	0.50
1:A:594:LEU:HB2	1:A:613:ILE:HG12	1.92	0.50
1:A:780:ARG:O	1:A:781:ILE:O	2.30	0.50
1:A:1146:LEU:HD13	1:A:1274:LEU:HD23	1.86	0.50
1:A:1384:ARG:HD2	1:A:1388:MET:SD	2.51	0.50
2:B:281:ARG:HG3	9:I:6:TYR:CD2	2.46	0.50
2:B:669:VAL:HG22	2:B:674:ILE:CD1	2.29	0.50
2:B:1086:HIS:HB2	2:B:1091:LYS:HE3	1.93	0.50
3:C:242:ASN:HB3	3:C:245:MET:HB3	1.94	0.50
8:H:13:VAL:HA	8:H:28:THR:O	2.11	0.50
9:I:12:ASN:CG	9:I:13:MET:H	2.15	0.50
9:I:94:ASP:O	9:I:96:MET:N	2.40	0.50
10:J:37:LYS:C	10:J:38:LEU:HD12	2.32	0.50
1:M:25:SER:HB2	1:M:26:PRO:HD2	1.94	0.50
1:M:86:ILE:HD11	1:M:276:ILE:HG12	1.94	0.50
1:M:326:ARG:O	1:M:327:PRO:O	2.30	0.50
1:M:411:ILE:HD12	1:M:425:LYS:HZ2	1.76	0.50
1:M:425:LYS:HZ1	1:M:430:ILE:CG1	2.10	0.50
1:M:440:ARG:HG3	1:M:441:HIS:O	2.12	0.50
1:M:567:PRO:HG3	1:M:586:LEU:HD11	1.94	0.50
1:M:902:LYS:HB3	1:M:903:TYR:CD1	2.47	0.50
1:M:1106:GLU:CD	1:M:1114:ILE:HA	2.32	0.50
2:N:11:THR:O	2:N:12:LEU:HB3	2.11	0.50
2:N:41:PHE:HB3	2:N:42:VAL:CB	2.42	0.50
2:N:41:PHE:N	2:N:42:VAL:HB	2.27	0.50
2:N:298:GLU:C	2:N:300:MET:H	2.15	0.50
2:N:435:LYS:HB3	2:N:438:ILE:HG22	1.92	0.50
2:N:538:ALA:HB3	2:N:539:PRO:CD	2.33	0.50
2:N:706:VAL:HG13	2:N:707:LYS:N	2.27	0.50
2:N:876:HIS:O	2:N:877:GLY:O	2.29	0.50
2:N:899:ILE:C	2:N:899:ILE:CD1	2.79	0.50
2:N:987:ASP:O	2:N:1064:GLY:HA3	2.12	0.50
2:N:991:SER:HG	2:N:1061:MET:HA	1.75	0.50
2:N:1066:THR:C	3:O:30:ASN:ND2	2.56	0.50
3:O:95:TYR:HE2	3:O:161:LYS:HE2	1.75	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:86:HIS:O	4:P:89:GLU:N	2.45	0.50
8:T:38:LEU:HD23	8:T:104:ILE:HG23	1.94	0.50
9:U:72:ASP:HA	9:U:81:HIS:CE1	2.46	0.50
9:U:111:GLU:O	9:U:112:GLU:CB	2.52	0.50
1:A:126:ASP:C	1:A:130:TYR:CD2	2.85	0.49
1:A:153:GLY:O	1:A:154:LEU:O	2.30	0.49
1:A:388:PRO:HB3	1:A:434:TYR:CZ	2.47	0.49
1:A:503:THR:C	1:A:505:ALA:N	2.64	0.49
1:A:772:GLY:HA3	1:A:806:ILE:H	1.77	0.49
1:A:853:ASP:HB3	1:A:864:ASN:HD21	1.75	0.49
1:A:855:MET:HG3	1:A:1066:MET:N	2.26	0.49
1:A:904:ARG:CG	1:A:937:GLN:HE22	2.21	0.49
1:A:1194:TRP:CH2	1:A:1262:GLU:CG	2.95	0.49
1:A:1259:MET:O	1:A:1260:ILE:CG2	2.60	0.49
2:B:16:ASP:O	2:B:19:THR:CG2	2.60	0.49
2:B:41:PHE:HB3	2:B:42:VAL:CB	2.42	0.49
2:B:41:PHE:N	2:B:42:VAL:HB	2.27	0.49
2:B:435:LYS:HB3	2:B:438:ILE:HG22	1.92	0.49
2:B:625:ILE:HG21	2:B:675:GLU:HG3	1.94	0.49
2:B:873:ARG:HG3	3:O:265:GLU:OE1	2.12	0.49
3:C:73:SER:HB2	3:C:239:ILE:HG21	1.94	0.49
3:C:212:GLU:CB	3:C:213:PRO:CA	2.85	0.49
4:D:24:MET:HE1	4:D:88:PHE:CD1	2.47	0.49
5:E:118:ILE:N	5:E:118:ILE:HD12	2.27	0.49
7:G:103:ASN:OD1	7:G:108:ASN:OD1	2.30	0.49
10:J:42:ARG:HB3	10:J:44:CYS:HB3	1.94	0.49
11:K:34:LEU:HD12	11:K:70:PHE:CZ	2.47	0.49
1:M:8:PRO:C	1:M:9:SER:HG	2.13	0.49
1:M:51:ARG:HD3	1:M:56:LEU:HG	1.93	0.49
1:M:81:GLY:CA	1:M:249:PRO:HB2	2.40	0.49
1:M:107:CYS:HA	1:M:116:LYS:HD2	1.94	0.49
1:M:116:LYS:H	1:M:116:LYS:CD	2.12	0.49
1:M:122:PRO:O	1:M:126:ASP:CG	2.51	0.49
1:M:126:ASP:C	1:M:130:TYR:CE2	2.85	0.49
1:M:185:ASP:OD1	1:M:185:ASP:O	2.30	0.49
1:M:267:ASP:H	1:M:268:LEU:CA	2.16	0.49
1:M:360:THR:HG22	1:M:361:GLY:N	2.27	0.49
1:M:729:ASN:O	1:M:733:ASP:OD1	2.30	0.49
1:M:919:ASN:H	1:M:919:ASN:HD22	1.59	0.49
1:M:947:LYS:HD2	1:M:947:LYS:N	2.26	0.49
1:M:1314:THR:HG23	1:M:1315:ASP:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1450:TYR:HE1	7:S:61:ARG:HB3	1.72	0.49
2:N:427:GLU:O	2:N:428:PHE:HD1	1.92	0.49
2:N:984:ARG:HH22	11:W:39:HIS:CE1	2.30	0.49
9:U:33:ASP:O	9:U:34:TYR:C	2.49	0.49
1:A:94:HIS:N	1:A:98:LEU:HG	2.27	0.49
1:A:326:ARG:O	1:A:327:PRO:O	2.30	0.49
1:A:349:LYS:HE2	2:B:1106:GLN:HE22	1.77	0.49
1:A:478:LEU:HD13	2:B:824:GLN:CD	2.33	0.49
1:A:776:VAL:O	1:A:777:GLU:C	2.49	0.49
1:A:858:TYR:CD2	1:A:1063:PRO:HG2	2.46	0.49
1:A:1393:HIS:O	1:A:1408:PHE:HB3	2.11	0.49
2:B:220:ALA:C	2:B:221:TYR:HD2	2.15	0.49
2:B:225:ILE:HB	2:B:239:MET:HB2	1.94	0.49
2:B:229:LEU:O	2:B:234:ARG:O	2.30	0.49
2:B:308:PHE:CD2	2:B:308:PHE:O	2.66	0.49
2:B:605:ILE:CG2	9:I:61:ASP:CB	2.90	0.49
2:B:907:ILE:HD11	2:B:924:ARG:NE	2.25	0.49
3:C:240:PRO:HB2	3:C:243:GLU:CG	2.42	0.49
4:D:64:VAL:O	4:D:64:VAL:CG1	2.60	0.49
9:I:58:VAL:CG1	9:I:60:HIS:HB2	2.42	0.49
9:I:71:SER:N	9:I:83:ALA:O	2.38	0.49
9:I:87:GLN:NE2	9:I:97:MET:HE3	2.26	0.49
10:J:45:CYS:O	10:J:48:MET:CB	2.56	0.49
1:M:180:PRO:HB3	1:M:192:SER:O	2.10	0.49
1:M:208:LEU:O	1:M:212:GLU:OE1	2.31	0.49
1:M:210:PRO:HG2	1:M:211:LEU:H	1.77	0.49
1:M:260:GLY:O	1:M:261:THR:O	2.30	0.49
1:M:268:LEU:H	1:M:328:LEU:CD2	2.25	0.49
1:M:323:LYS:O	1:M:326:ARG:HG3	2.12	0.49
1:M:347:MET:HE1	1:M:1407:SER:CA	2.42	0.49
1:M:553:MET:CE	11:W:58:ALA:HB3	2.42	0.49
1:M:921:ILE:O	1:M:922:GLU:OE1	2.30	0.49
1:M:971:LEU:HD11	1:M:1038:TYR:CB	2.41	0.49
1:M:1259:MET:O	1:M:1260:ILE:CG2	2.60	0.49
1:M:1504:ALA:O	1:M:1507:PRO:CD	2.59	0.49
2:N:180:CYS:C	2:N:182:TYR:H	2.16	0.49
2:N:386:HIS:HA	2:N:388:GLY:H	1.77	0.49
2:N:494:LEU:O	2:N:495:ALA:O	2.30	0.49
2:N:568:VAL:O	2:N:568:VAL:HG12	2.11	0.49
2:N:625:ILE:HG21	2:N:675:GLU:HG3	1.94	0.49
2:N:862:GLU:HB3	2:N:864:GLU:HG3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:9:ILE:HD13	3:O:9:ILE:O	2.12	0.49
5:Q:54:ARG:O	5:Q:55:THR:OG1	2.30	0.49
8:T:117:ASP:O	8:T:118:HIS:O	2.30	0.49
11:W:75:GLN:O	11:W:76:THR:HB	2.11	0.49
1:A:87:GLU:O	1:A:88:LEU:CB	2.59	0.49
1:A:117:ILE:CD1	1:A:143:VAL:HG11	2.42	0.49
1:A:150:CYS:CB	1:A:176:GLY:N	2.75	0.49
1:A:181:THR:C	1:A:182:ILE:HG13	2.32	0.49
1:A:444:ASP:HA	1:A:467:ARG:HB2	1.94	0.49
1:A:730:GLN:O	1:A:733:ASP:OD1	2.30	0.49
1:A:803:ARG:O	1:A:804:GLY:O	2.30	0.49
1:A:1263:ASP:O	1:A:1264:VAL:C	2.51	0.49
1:A:1412:VAL:CG1	1:A:1413:GLU:HG3	2.42	0.49
2:B:233:SER:O	2:B:234:ARG:O	2.30	0.49
2:B:363:PHE:CZ	2:B:572:TRP:HB3	2.47	0.49
2:B:986:GLU:HB3	3:C:34:ARG:HE	1.78	0.49
6:F:64:VAL:HB	6:F:133:TYR:O	2.11	0.49
7:G:144:VAL:HG13	7:G:170:GLY:CA	2.41	0.49
7:G:144:VAL:HG12	7:G:146:LEU:CD1	2.42	0.49
8:H:54:THR:HG23	8:H:55:PHE:CD2	2.46	0.49
10:J:1:MET:O	10:J:2:ILE:O	2.31	0.49
1:M:154:LEU:N	1:M:174:GLY:N	2.59	0.49
1:M:161:PHE:CD2	1:M:165:ASN:CG	2.85	0.49
1:M:762:ILE:O	1:M:762:ILE:CG1	2.59	0.49
1:M:781:ILE:CG1	1:M:821:PHE:HD2	2.05	0.49
1:M:919:ASN:O	1:M:920:SER:HB2	2.11	0.49
1:M:1216:ALA:HA	1:M:1219:ILE:CD1	2.42	0.49
1:M:1313:GLU:O	1:M:1314:THR:O	2.30	0.49
2:N:41:PHE:HD2	2:N:42:VAL:HG23	1.76	0.49
2:N:269:VAL:HG21	2:N:304:ILE:HA	1.94	0.49
2:N:308:PHE:O	2:N:308:PHE:CD2	2.66	0.49
2:N:1095:ARG:HG3	2:N:1096:ALA:N	2.27	0.49
3:O:26:LEU:O	3:O:27:ALA:C	2.51	0.49
3:O:54:THR:CG2	3:O:152:GLN:HA	2.43	0.49
7:S:114:HIS:NE2	7:S:115:LEU:HD23	2.27	0.49
7:S:147:LYS:HD2	7:S:166:GLU:HB2	1.93	0.49
11:W:18:VAL:HG22	11:W:34:LEU:CD2	2.43	0.49
1:A:114:LYS:O	1:A:115:LEU:O	2.30	0.49
1:A:122:PRO:O	1:A:126:ASP:CG	2.51	0.49
1:A:150:CYS:HB2	1:A:176:GLY:HA2	1.90	0.49
1:A:162:ASP:N	1:A:162:ASP:OD1	2.45	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:168:ALA:O	1:A:169:ASN:CB	2.58	0.49
1:A:573:LYS:HE2	8:H:74:TYR:CE2	2.47	0.49
1:A:583:ILE:HD13	1:A:583:ILE:N	2.27	0.49
1:A:1075:ILE:C	1:A:1078:PRO:CD	2.81	0.49
2:B:229:LEU:HD12	2:B:231:ARG:HB3	1.93	0.49
2:B:243:LEU:O	2:B:244:MET:O	2.30	0.49
2:B:664:GLY:O	2:B:665:TRP:CB	2.59	0.49
2:B:706:VAL:HG13	2:B:707:LYS:N	2.27	0.49
2:B:982:THR:O	2:B:982:THR:HG23	2.13	0.49
4:D:29:GLU:OE2	4:D:33:LEU:HD11	2.12	0.49
5:E:171:PRO:CB	5:E:207:ARG:HG2	2.36	0.49
11:K:75:GLN:O	11:K:76:THR:HB	2.11	0.49
1:M:11:VAL:O	1:M:12:PRO:O	2.30	0.49
1:M:98:LEU:HA	1:M:101:ILE:HG22	1.93	0.49
1:M:120:SER:N	1:M:122:PRO:HA	2.28	0.49
1:M:231:ASN:O	1:M:235:ALA:O	2.30	0.49
1:M:254:PRO:HG2	1:M:266:ASP:HB2	1.93	0.49
1:M:444:ASP:HA	1:M:467:ARG:HB2	1.94	0.49
1:M:457:HIS:CA	1:M:1077:GLU:OE2	2.60	0.49
1:M:588:ILE:HD11	1:M:616:GLY:HA2	1.94	0.49
1:M:743:LEU:O	1:M:744:LYS:C	2.50	0.49
1:M:848:VAL:HG11	2:N:1125:ASP:CG	2.33	0.49
1:M:1075:ILE:C	1:M:1078:PRO:CD	2.81	0.49
1:M:1212:MET:HE3	1:M:1241:ILE:HD11	1.94	0.49
1:M:1412:VAL:CG1	1:M:1413:GLU:HG3	2.42	0.49
2:N:16:ASP:CA	2:N:19:THR:HG22	2.41	0.49
2:N:187:TYR:CD1	2:N:194:GLU:OE1	2.65	0.49
2:N:216:PRO:N	2:N:217:SER:CA	2.76	0.49
2:N:229:LEU:O	2:N:234:ARG:O	2.30	0.49
2:N:752:GLN:O	2:N:754:PRO:HD3	2.09	0.49
2:N:1150:ILE:HG22	2:N:1151:VAL:N	2.27	0.49
1:A:86:ILE:HD11	1:A:276:ILE:HG12	1.94	0.49
1:A:177:ALA:CB	1:A:179:GLN:CG	2.62	0.49
1:A:360:THR:HG22	1:A:361:GLY:N	2.26	0.49
1:A:452:ARG:HH11	1:A:486:ALA:CB	2.26	0.49
1:A:480:VAL:HG12	1:A:484:TYR:CE1	2.46	0.49
1:A:559:VAL:HG23	1:A:560:PRO:C	2.33	0.49
1:A:1064:GLY:CA	1:A:1065:GLU:CB	2.91	0.49
1:A:1242:ARG:O	1:A:1243:CYS:SG	2.68	0.49
1:A:1450:TYR:CE2	6:F:125:ARG:HD2	2.47	0.49
2:B:30:LEU:HD23	2:B:482:ARG:HH22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:208:VAL:O	2:B:208:VAL:HG12	2.11	0.49
2:B:438:ILE:HG12	2:B:439:ILE:HG12	1.94	0.49
2:B:862:GLU:HB3	2:B:864:GLU:HG3	1.93	0.49
2:B:984:ARG:HH22	11:K:39:HIS:CE1	2.30	0.49
2:B:1057:GLY:O	2:B:1058:PHE:O	2.31	0.49
2:B:1095:ARG:HG3	2:B:1096:ALA:N	2.27	0.49
3:C:54:THR:CG2	3:C:152:GLN:HA	2.43	0.49
4:D:65:PHE:HD1	4:D:67:ARG:HH21	1.59	0.49
6:F:84:LEU:HD13	6:F:112:MET:HG2	1.94	0.49
9:I:19:ASP:O	9:I:20:LYS:O	2.30	0.49
11:K:78:GLU:O	11:K:79:ASP:HB3	2.11	0.49
1:M:40:PRO:HA	1:M:276:ILE:CG2	2.42	0.49
1:M:115:LEU:H	1:M:115:LEU:HD13	1.77	0.49
1:M:178:ALA:O	1:M:179:GLN:CG	2.60	0.49
1:M:478:LEU:HD13	2:N:824:GLN:CD	2.32	0.49
1:M:525:PRO:CD	1:M:637:HIS:ND1	2.57	0.49
1:M:528:GLY:O	1:M:530:VAL:HG23	2.12	0.49
1:M:843:ILE:HD13	1:M:843:ILE:O	2.12	0.49
1:M:947:LYS:HG2	1:M:951:PRO:HG2	1.94	0.49
1:M:1061:VAL:O	1:M:1061:VAL:HG13	2.12	0.49
1:M:1161:PRO:CG	1:M:1190:LYS:CB	2.84	0.49
1:M:1163:ASP:C	1:M:1164:THR:HG23	2.33	0.49
1:M:1181:ASP:HA	1:M:1184:VAL:CG2	2.43	0.49
1:M:1280:ARG:CZ	5:Q:6:LYS:HZ3	2.24	0.49
2:N:308:PHE:O	2:N:308:PHE:CG	2.65	0.49
2:N:485:ASN:O	2:N:521:LEU:O	2.31	0.49
2:N:1086:HIS:HB2	2:N:1091:LYS:HE3	1.93	0.49
3:O:80:PRO:O	3:O:83:GLY:O	2.30	0.49
7:S:14:LEU:HD13	7:S:27:LEU:HD23	1.94	0.49
8:T:37:ASN:C	8:T:37:ASN:OD1	2.50	0.49
9:U:79:HIS:HD2	9:U:80:GLN:NE2	2.05	0.49
12:X:31:ASN:O	12:X:32:THR:C	2.50	0.49
1:A:16:VAL:HG23	2:B:1182:VAL:CG2	2.43	0.49
1:A:192:SER:HB2	1:A:201:ASP:C	2.33	0.49
1:A:213:VAL:HG13	1:A:217:PHE:CZ	2.47	0.49
1:A:254:PRO:HG2	1:A:266:ASP:OD1	2.11	0.49
1:A:323:LYS:O	1:A:326:ARG:HG3	2.13	0.49
1:A:336:LYS:CB	1:A:1410:GLU:OE1	2.58	0.49
1:A:440:ARG:HG3	1:A:441:HIS:O	2.12	0.49
1:A:551:ALA:CB	1:A:554:ASN:H	2.26	0.49
1:A:862:VAL:HB	1:A:870:ILE:HD11	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:875:GLY:C	1:A:877:ASP:H	2.16	0.49
1:A:1293:HIS:HD2	1:A:1311:VAL:CB	2.23	0.49
1:A:1313:GLU:O	1:A:1314:THR:O	2.30	0.49
1:A:1386:HIS:HA	5:E:174:GLN:NE2	2.28	0.49
2:B:13:THR:HG22	2:B:16:ASP:OD2	2.12	0.49
2:B:31:ALA:H	2:B:482:ARG:NH2	2.04	0.49
2:B:180:CYS:C	2:B:182:TYR:H	2.16	0.49
2:B:494:LEU:O	2:B:495:ALA:O	2.30	0.49
2:B:987:ASP:O	2:B:1064:GLY:HA3	2.12	0.49
3:C:35:VAL:HG21	3:C:252:LEU:HD12	1.95	0.49
7:G:102:ALA:O	7:G:103:ASN:OD1	2.30	0.49
7:G:114:HIS:NE2	7:G:115:LEU:HD23	2.27	0.49
9:I:5:GLN:O	9:I:14:LEU:HG	2.12	0.49
9:I:72:ASP:HA	9:I:81:HIS:CE1	2.46	0.49
1:M:94:HIS:C	1:M:98:LEU:HD12	2.32	0.49
1:M:116:LYS:O	1:M:117:ILE:O	2.30	0.49
1:M:382:TYR:HE2	1:M:440:ARG:CZ	2.26	0.49
1:M:592:ILE:C	1:M:593:ASN:HD22	2.16	0.49
1:M:885:GLU:O	1:M:886:TYR:C	2.50	0.49
2:N:88:THR:HA	2:N:98:THR:HA	1.94	0.49
2:N:243:LEU:O	2:N:244:MET:O	2.30	0.49
2:N:319:TYR:O	2:N:319:TYR:CG	2.65	0.49
3:O:242:ASN:HB3	3:O:245:MET:HB3	1.94	0.49
5:Q:178:PRO:O	5:Q:182:TYR:HB2	2.13	0.49
6:R:75:MET:HB2	6:R:141:LEU:HB3	1.93	0.49
6:R:79:GLU:O	6:R:80:ARG:C	2.51	0.49
7:S:6:LYS:CG	7:S:7:GLU:H	2.24	0.49
1:A:194:LYS:HA	1:A:200:SER:CB	2.42	0.49
1:A:236:ARG:O	1:A:237:PRO:C	2.51	0.49
1:A:257:SER:O	1:A:259:ASP:N	2.43	0.49
1:A:260:GLY:O	1:A:261:THR:O	2.30	0.49
1:A:444:ASP:O	1:A:445:GLY:C	2.51	0.49
1:A:485:ASN:OD1	1:A:485:ASN:O	2.31	0.49
1:A:921:ILE:O	1:A:922:GLU:CD	2.51	0.49
1:A:1276:SER:CA	1:A:1277:ILE:CB	2.46	0.49
2:B:165:ILE:O	2:B:165:ILE:CG2	2.60	0.49
2:B:187:TYR:CD1	2:B:194:GLU:OE1	2.65	0.49
2:B:816:ILE:HG22	2:B:1003:PRO:HG3	1.95	0.49
2:B:1191:LEU:C	2:B:1191:LEU:HD23	2.33	0.49
9:I:75:CYS:O	9:I:76:PRO:O	2.30	0.49
9:I:91:ARG:HG2	9:I:92:ARG:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:44:MET:O	11:K:46:ALA:N	2.36	0.49
1:M:1386:HIS:HA	5:Q:174:GLN:NE2	2.28	0.49
2:N:34:GLN:N	2:N:35:LEU:HB3	2.28	0.49
2:N:281:ARG:HG3	9:U:6:TYR:CD2	2.46	0.49
2:N:450:GLY:HA3	2:N:464:GLY:H	1.78	0.49
2:N:970:ALA:HB2	2:N:976:LYS:HA	1.93	0.49
2:N:986:GLU:HB3	3:O:34:ARG:HE	1.78	0.49
5:Q:27:TYR:CD2	5:Q:63:PRO:CG	2.73	0.49
5:Q:103:ILE:HA	5:Q:128:GLU:O	2.13	0.49
6:R:60:SER:O	6:R:61:GLY:O	2.30	0.49
9:U:5:GLN:O	9:U:14:LEU:CG	2.60	0.49
9:U:8:ILE:O	9:U:9:GLU:CB	2.59	0.49
1:A:8:PRO:CG	2:B:1148:ARG:HE	2.16	0.49
1:A:556:MET:HE3	1:A:562:TRP:CE2	2.47	0.49
1:A:775:ILE:HG12	1:A:1089:TYR:HB2	1.95	0.49
1:A:811:LEU:CD2	2:B:1041:VAL:HG21	2.42	0.49
1:A:1170:LYS:CE	1:A:1240:ILE:HD12	2.34	0.49
1:A:1496:PHE:HZ	4:D:32:ILE:CG2	2.26	0.49
2:B:30:LEU:CD2	2:B:482:ARG:HH22	2.26	0.49
2:B:308:PHE:O	2:B:308:PHE:CG	2.65	0.49
2:B:341:ILE:HG22	2:B:346:LEU:CD2	2.38	0.49
2:B:775:GLN:NE2	3:C:56:VAL:HG13	2.27	0.49
3:C:9:ILE:O	3:C:9:ILE:HD13	2.12	0.49
5:E:84:ILE:HG23	5:E:114:ALA:HB2	1.95	0.49
1:M:104:ILE:O	1:M:105:LEU:O	2.30	0.49
1:M:106:GLU:OE1	1:M:147:LYS:HD3	2.12	0.49
1:M:126:ASP:C	1:M:130:TYR:CD2	2.85	0.49
1:M:780:ARG:HH11	1:M:803:ARG:HH21	1.37	0.49
1:M:816:PRO:C	1:M:818:GLU:N	2.66	0.49
1:M:1194:TRP:CZ2	1:M:1262:GLU:HB3	2.44	0.49
2:N:654:ARG:CZ	2:N:657:ILE:HG21	2.43	0.49
2:N:845:TYR:HD2	2:N:956:ARG:HD3	1.77	0.49
7:S:144:VAL:CG1	7:S:145:ARG:N	2.75	0.49
9:U:12:ASN:O	9:U:13:MET:O	2.30	0.49
9:U:25:LEU:CD1	9:U:38:ALA:HB1	2.42	0.49
11:W:31:VAL:O	11:W:31:VAL:HG12	2.13	0.49
12:X:23:LEU:O	12:X:49:MET:HA	2.12	0.49
1:A:115:LEU:H	1:A:115:LEU:HD13	1.77	0.49
1:A:180:PRO:CG	1:A:193:TRP:CD1	2.95	0.49
1:A:352:ASP:HA	2:B:1095:ARG:CG	2.41	0.49
1:A:378:LYS:CA	1:A:441:HIS:CD2	2.89	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:747:ASN:O	1:A:748:ASN:C	2.51	0.49
1:A:843:ILE:HD13	1:A:843:ILE:O	2.12	0.49
1:A:874:TYR:HB3	1:A:1061:VAL:CG1	2.43	0.49
1:A:923:ASN:C	1:A:925:SER:H	2.15	0.49
1:A:1083:THR:HB	1:A:1101:VAL:HB	1.94	0.49
1:A:1291:MET:HA	1:A:1291:MET:HE3	1.95	0.49
2:B:268:ILE:HG13	2:B:269:VAL:H	1.78	0.49
2:B:654:ARG:CZ	2:B:657:ILE:HG21	2.43	0.49
2:B:780:THR:HA	2:B:847:THR:OG1	2.13	0.49
4:D:10:ALA:CB	7:G:84:ARG:O	2.61	0.49
9:I:57:THR:CA	9:I:58:VAL:HB	2.42	0.49
12:L:43:GLU:C	12:L:44:CYS:SG	2.90	0.49
1:M:82:HIS:H	1:M:249:PRO:HB3	1.76	0.49
1:M:101:ILE:HD11	1:M:217:PHE:HE2	1.70	0.49
1:M:432:LEU:O	1:M:433:ARG:O	2.30	0.49
1:M:512:MET:O	1:M:513:VAL:C	2.50	0.49
1:M:847:LEU:HB3	1:M:1072:ALA:HB1	1.93	0.49
1:M:1075:ILE:HA	1:M:1078:PRO:HG3	1.94	0.49
1:M:1403:LEU:HB3	1:M:1432:GLU:OE1	2.12	0.49
2:N:165:ILE:O	2:N:166:LEU:HD23	2.13	0.49
2:N:773:ASN:HB3	10:V:62:TYR:CE2	2.48	0.49
3:O:35:VAL:HG21	3:O:252:LEU:HD12	1.95	0.49
9:U:91:ARG:HG2	9:U:92:ARG:H	1.77	0.49
1:A:121:ASN:N	1:A:121:ASN:HD22	2.10	0.49
1:A:459:MET:HE1	1:A:519:SER:CB	2.43	0.49
1:A:569:PRO:HG3	1:A:578:TRP:CH2	2.48	0.49
1:A:730:GLN:C	1:A:733:ASP:OD1	2.51	0.49
1:A:775:ILE:CG1	1:A:1089:TYR:HB2	2.43	0.49
1:A:1061:VAL:HG13	1:A:1061:VAL:O	2.12	0.49
1:A:1066:MET:HE1	1:A:1442:MET:CG	2.43	0.49
1:A:1081:GLN:OE1	1:A:1368:TYR:HD2	1.96	0.49
1:A:1167:GLU:O	1:A:1167:GLU:CD	2.51	0.49
1:A:1410:GLU:O	1:A:1411:THR:O	2.30	0.49
1:A:1451:LEU:HD23	6:F:122:LEU:HD23	1.95	0.49
1:A:1481:GLY:O	1:A:1482:ALA:HB3	2.13	0.49
2:B:34:GLN:N	2:B:35:LEU:HB3	2.28	0.49
2:B:165:ILE:O	2:B:166:LEU:HD23	2.13	0.49
2:B:216:PRO:N	2:B:217:SER:CA	2.76	0.49
2:B:313:LYS:O	2:B:317:LEU:HD13	2.11	0.49
2:B:450:GLY:HA3	2:B:464:GLY:H	1.78	0.49
2:B:476:SER:O	2:B:477:THR:C	2.52	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:991:SER:HG	2:B:1061:MET:HA	1.74	0.49
2:B:1113:ARG:N	2:B:1114:ASP:HA	2.28	0.49
3:C:188:GLN:C	3:C:190:THR:H	2.15	0.49
4:D:37:VAL:O	4:D:41:ARG:HG3	2.13	0.49
4:D:133:PHE:C	4:D:135:ASP:N	2.65	0.49
7:G:144:VAL:CG1	7:G:145:ARG:N	2.75	0.49
9:I:7:CYS:CB	9:I:34:TYR:CD2	2.96	0.49
9:I:85:PHE:O	9:I:86:TYR:CB	2.51	0.49
10:J:2:ILE:HG23	10:J:56:ILE:HG12	1.94	0.49
11:K:98:GLU:HA	11:K:101:LYS:HB3	1.95	0.49
1:M:16:VAL:HG22	2:N:1182:VAL:CG2	2.43	0.49
1:M:86:ILE:O	1:M:86:ILE:CG2	2.52	0.49
1:M:95:ILE:N	1:M:98:LEU:HD12	2.28	0.49
1:M:118:ASP:CG	1:M:120:SER:HG	2.17	0.49
1:M:345:ASN:O	1:M:346:LEU:HD23	2.13	0.49
1:M:604:SER:OG	1:M:605:ASN:N	2.35	0.49
1:M:730:GLN:O	1:M:733:ASP:OD1	2.30	0.49
1:M:1194:TRP:CZ2	1:M:1262:GLU:CG	2.96	0.49
1:M:1283:PRO:O	1:M:1284:ASN:CG	2.52	0.49
2:N:225:ILE:HB	2:N:239:MET:HB2	1.94	0.49
2:N:233:SER:O	2:N:234:ARG:O	2.30	0.49
2:N:342:LEU:HA	2:N:346:LEU:HB2	1.93	0.49
2:N:404:ARG:HH11	2:N:404:ARG:HG2	1.77	0.49
2:N:1054:GLN:HG2	3:O:202:TRP:CE3	2.48	0.49
2:N:1150:ILE:N	2:N:1150:ILE:CD1	2.76	0.49
3:O:240:PRO:HB2	3:O:243:GLU:CG	2.42	0.49
4:P:10:ALA:CB	7:S:84:ARG:O	2.60	0.49
4:P:25:LEU:HD21	4:P:29:GLU:OE2	2.12	0.49
4:P:29:GLU:OE2	4:P:33:LEU:HD11	2.12	0.49
4:P:85:PHE:O	4:P:86:HIS:ND1	2.46	0.49
7:S:100:PHE:CZ	7:S:131:TYR:CD2	3.01	0.49
7:S:103:ASN:OD1	7:S:108:ASN:OD1	2.30	0.49
11:W:98:GLU:HA	11:W:101:LYS:HB3	1.95	0.49
1:A:8:PRO:C	1:A:9:SER:HG	2.14	0.48
1:A:182:ILE:HG23	1:A:190:TRP:O	2.13	0.48
1:A:231:ASN:O	1:A:235:ALA:O	2.30	0.48
1:A:573:LYS:NZ	8:H:74:TYR:CE1	2.81	0.48
1:A:773:GLN:HE21	1:A:780:ARG:HB2	1.70	0.48
1:A:1062:SER:CA	1:A:1063:PRO:O	2.61	0.48
1:A:1075:ILE:HA	1:A:1078:PRO:HG3	1.94	0.48
1:A:1259:MET:O	1:A:1260:ILE:CB	2.60	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:54:SER:HB2	2:B:79:PHE:H	1.78	0.48
2:B:290:ASP:OD2	2:B:291:PRO:N	2.46	0.48
2:B:366:TYR:CZ	2:B:567:PHE:HZ	2.31	0.48
2:B:831:ASN:HD21	2:B:833:ALA:HB3	1.78	0.48
2:B:851:GLN:HG2	2:B:952:PHE:CE1	2.48	0.48
2:B:888:ILE:CG2	2:B:900:ILE:HA	2.43	0.48
2:B:972:ARG:NE	2:B:1080:TYR:HE1	2.11	0.48
8:H:89:GLU:HG3	8:H:90:LYS:N	2.28	0.48
11:K:76:THR:HA	11:K:77:VAL:CB	2.20	0.48
1:M:26:PRO:HD2	1:M:239:TRP:HE1	1.78	0.48
1:M:111:ASN:OD1	1:M:216:ILE:CG1	2.51	0.48
1:M:155:SER:CB	1:M:169:ASN:HB3	2.31	0.48
1:M:583:ILE:HD13	1:M:583:ILE:N	2.27	0.48
1:M:806:ILE:CG2	1:M:808:ASN:O	2.61	0.48
1:M:810:TYR:C	2:N:750:HIS:CD2	2.87	0.48
1:M:874:TYR:HB3	1:M:1061:VAL:CG1	2.43	0.48
1:M:1062:SER:CA	1:M:1063:PRO:O	2.61	0.48
1:M:1117:PRO:HG2	1:M:1316:GLY:HA2	1.95	0.48
1:M:1167:GLU:O	1:M:1167:GLU:CD	2.51	0.48
1:M:1410:GLU:O	1:M:1411:THR:O	2.30	0.48
2:N:30:LEU:CD2	2:N:482:ARG:HH22	2.26	0.48
2:N:215:ALA:O	2:N:217:SER:OG	2.30	0.48
2:N:292:ASN:N	2:N:293:ASP:CB	2.55	0.48
2:N:816:ILE:HG12	2:N:1001:ILE:CD1	2.39	0.48
2:N:967:ASP:OD1	2:N:1088:VAL:HG23	2.13	0.48
2:N:1207:LYS:C	2:N:1209:HIS:N	2.66	0.48
4:P:11:ALA:CB	4:P:12:GLN:CA	2.80	0.48
4:P:111:LEU:O	4:P:112:ALA:O	2.30	0.48
5:Q:76:PHE:HD2	5:Q:105:ILE:HG12	1.77	0.48
1:A:94:HIS:NE2	1:A:97:PHE:HD2	2.11	0.48
1:A:101:ILE:HD13	1:A:240:MET:SD	2.52	0.48
1:A:161:PHE:CD2	1:A:165:ASN:CG	2.86	0.48
1:A:366:SER:O	1:A:369:GLU:HB2	2.13	0.48
1:A:556:MET:HE3	1:A:562:TRP:NE1	2.29	0.48
1:A:567:PRO:HG3	1:A:586:LEU:HD11	1.94	0.48
1:A:889:PHE:CZ	1:A:1020:LEU:CD2	2.89	0.48
1:A:1117:PRO:HG2	1:A:1316:GLY:HA2	1.95	0.48
1:A:1163:ASP:C	1:A:1164:THR:HG23	2.33	0.48
1:A:1390:ILE:CD1	1:A:1395:ILE:CG2	2.90	0.48
1:A:1485:PRO:CD	4:D:43:ARG:HH11	2.25	0.48
2:B:386:HIS:HA	2:B:388:GLY:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:469:LEU:O	2:B:470:ASN:CB	2.61	0.48
2:B:845:TYR:HD2	2:B:956:ARG:HD3	1.78	0.48
3:C:26:LEU:O	3:C:27:ALA:C	2.51	0.48
5:E:103:ILE:HA	5:E:128:GLU:O	2.13	0.48
5:E:178:PRO:O	5:E:182:TYR:HB2	2.13	0.48
7:G:100:PHE:CZ	7:G:131:TYR:CD2	3.01	0.48
8:H:57:LEU:HD12	8:H:57:LEU:O	2.12	0.48
9:I:20:LYS:HZ2	9:I:21:VAL:CG2	2.26	0.48
9:I:93:GLY:HA3	9:I:94:ASP:HA	1.58	0.48
11:K:18:VAL:HG22	11:K:34:LEU:CD2	2.42	0.48
1:M:95:ILE:O	1:M:96:GLY:O	2.30	0.48
1:M:551:ALA:CB	1:M:554:ASN:H	2.26	0.48
1:M:559:VAL:HG23	1:M:560:PRO:C	2.33	0.48
1:M:573:LYS:HE2	8:T:74:TYR:CE2	2.47	0.48
1:M:573:LYS:HG2	8:T:75:ILE:N	2.27	0.48
1:M:650:GLY:HA2	1:M:653:ASN:HD22	1.78	0.48
1:M:781:ILE:CG2	1:M:803:ARG:CA	2.91	0.48
1:M:816:PRO:O	1:M:818:GLU:N	2.46	0.48
1:M:1009:ILE:C	5:Q:162:ARG:HH21	2.17	0.48
1:M:1194:TRP:CH2	1:M:1262:GLU:CG	2.95	0.48
2:N:469:LEU:O	2:N:470:ASN:CB	2.61	0.48
2:N:476:SER:O	2:N:477:THR:C	2.52	0.48
2:N:780:THR:HA	2:N:847:THR:OG1	2.13	0.48
7:S:47:ILE:HB	7:S:78:VAL:O	2.13	0.48
7:S:100:PHE:CZ	7:S:131:TYR:CG	3.01	0.48
9:U:19:ASP:O	9:U:20:LYS:O	2.30	0.48
12:X:43:GLU:C	12:X:44:CYS:SG	2.90	0.48
1:A:16:VAL:HG22	2:B:1182:VAL:CG2	2.43	0.48
1:A:40:PRO:HA	1:A:276:ILE:CG2	2.42	0.48
1:A:66:GLN:N	1:A:67:PHE:CE1	2.81	0.48
1:A:111:ASN:OD1	1:A:216:ILE:CG1	2.47	0.48
1:A:570:VAL:O	1:A:570:VAL:HG12	2.14	0.48
1:A:650:GLY:HA2	1:A:653:ASN:HD22	1.78	0.48
1:A:885:GLU:O	1:A:886:TYR:C	2.50	0.48
1:A:1412:VAL:O	1:A:1415:LEU:N	2.47	0.48
1:A:1476:SER:O	1:A:1477:GLN:C	2.52	0.48
2:B:505:TRP:CH2	2:B:731:GLU:OE1	2.66	0.48
2:B:715:ARG:HH22	2:B:1036:PHE:HA	1.77	0.48
6:F:79:GLU:O	6:F:80:ARG:C	2.51	0.48
7:G:100:PHE:CZ	7:G:131:TYR:CG	3.01	0.48
8:H:40:LEU:HA	8:H:101:LEU:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:111:GLU:O	9:I:112:GLU:CB	2.52	0.48
10:J:25:LEU:HD21	10:J:32:GLY:HA2	1.96	0.48
1:M:50:PRO:O	1:M:51:ARG:CB	2.61	0.48
1:M:66:GLN:N	1:M:67:PHE:CE1	2.81	0.48
1:M:1064:GLY:CA	1:M:1065:GLU:CB	2.91	0.48
1:M:1081:GLN:OE1	1:M:1368:TYR:HD2	1.96	0.48
1:M:1209:LYS:O	1:M:1210:LEU:HD23	2.13	0.48
1:M:1259:MET:C	1:M:1260:ILE:CG2	2.78	0.48
1:M:1411:THR:HB	1:M:1412:VAL:H	1.52	0.48
2:N:325:SER:O	2:N:326:THR:OG1	2.31	0.48
5:Q:84:ILE:HG23	5:Q:114:ALA:HB2	1.95	0.48
10:V:25:LEU:HD21	10:V:32:GLY:HA2	1.95	0.48
1:A:397:LEU:O	1:A:400:ASN:HB2	2.13	0.48
1:A:433:ARG:HH11	1:A:435:GLY:HA3	1.76	0.48
1:A:546:PHE:CE1	8:H:43:ASN:ND2	2.82	0.48
1:A:712:PRO:C	1:A:714:MET:N	2.67	0.48
1:A:775:ILE:HD12	1:A:775:ILE:H	1.78	0.48
1:A:947:LYS:HG2	1:A:951:PRO:HG2	1.95	0.48
1:A:1155:ILE:HG12	1:A:1196:LEU:CD2	2.43	0.48
1:A:1319:LEU:HD11	1:A:1335:SER:HB3	1.95	0.48
1:A:1323:MET:HA	1:A:1328:VAL:HG21	1.95	0.48
2:B:41:PHE:H	2:B:42:VAL:HB	1.79	0.48
2:B:343:GLN:NE2	2:B:354:GLU:HA	2.28	0.48
2:B:344:LYS:O	2:B:348:PRO:HB3	2.13	0.48
2:B:747:PHE:CE1	2:B:1033:ALA:HB1	2.49	0.48
2:B:1207:LYS:C	2:B:1209:HIS:N	2.66	0.48
3:C:34:ARG:CZ	11:K:39:HIS:CD2	2.97	0.48
4:D:15:LEU:O	4:D:16:GLY:C	2.52	0.48
4:D:57:LYS:C	4:D:61:TYR:HD2	2.16	0.48
7:G:14:LEU:HD13	7:G:27:LEU:HD23	1.94	0.48
7:G:19:PHE:O	7:G:20:GLY:O	2.30	0.48
7:G:83:PHE:HD2	7:G:86:GLU:OE2	1.97	0.48
8:H:83:VAL:CG2	8:H:93:VAL:HG22	2.43	0.48
8:H:119:VAL:O	8:H:120:TYR:HB2	2.14	0.48
10:J:2:ILE:CG2	10:J:56:ILE:HG12	2.42	0.48
10:J:48:MET:CE	10:J:48:MET:HA	2.44	0.48
1:M:16:VAL:HG23	2:N:1182:VAL:CG2	2.43	0.48
1:M:90:LYS:HE3	1:M:299:GLU:CG	2.35	0.48
1:M:121:ASN:N	1:M:121:ASN:HD22	2.10	0.48
1:M:205:LYS:O	1:M:206:ARG:HB2	2.12	0.48
1:M:395:GLN:NE2	1:M:431:PRO:O	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:446:ASP:HB3	1:M:466:ILE:HD11	1.95	0.48
1:M:853:ASP:HB3	1:M:864:ASN:HD21	1.75	0.48
1:M:875:GLY:C	1:M:877:ASP:H	2.16	0.48
1:M:923:ASN:C	1:M:925:SER:H	2.15	0.48
1:M:1319:LEU:HD11	1:M:1335:SER:HB3	1.95	0.48
1:M:1450:TYR:CA	7:S:60:GLY:O	2.61	0.48
1:M:1501:ASP:C	1:M:1503:ALA:N	2.66	0.48
2:N:24:PHE:CD2	2:N:665:TRP:CZ2	3.01	0.48
2:N:41:PHE:H	2:N:42:VAL:HB	1.79	0.48
2:N:89:MET:CE	2:N:90:THR:H	2.26	0.48
2:N:99:MET:SD	2:N:109:LEU:HD22	2.53	0.48
2:N:741:LEU:CD1	2:N:764:LYS:HG2	2.44	0.48
2:N:1192:PHE:O	2:N:1196:MET:HG2	2.13	0.48
3:O:242:ASN:OD1	3:O:242:ASN:N	2.46	0.48
8:T:108:HIS:HD2	8:T:111:LEU:CD1	2.23	0.48
9:U:69:PRO:HG2	9:U:85:PHE:CE1	2.49	0.48
10:V:42:ARG:HB3	10:V:44:CYS:HB3	1.93	0.48
1:A:148:MET:O	1:A:149:VAL:HG22	2.12	0.48
1:A:411:ILE:HD12	1:A:425:LYS:HZ2	1.79	0.48
1:A:419:ILE:HG22	1:A:425:LYS:HD3	1.91	0.48
1:A:1009:ILE:C	5:E:162:ARG:HH21	2.17	0.48
1:A:1028:LYS:HB2	1:A:1028:LYS:HZ3	1.78	0.48
1:A:1403:LEU:HB3	1:A:1432:GLU:OE1	2.12	0.48
2:B:24:PHE:CD2	2:B:665:TRP:CZ2	3.01	0.48
2:B:294:PHE:O	2:B:298:GLU:N	2.33	0.48
3:C:65:ARG:NH1	3:C:65:ARG:HG2	2.28	0.48
3:C:85:GLU:O	3:C:86:TYR:C	2.51	0.48
4:D:84:ARG:O	4:D:85:PHE:CB	2.58	0.48
9:I:72:ASP:O	9:I:73:LYS:O	2.31	0.48
1:M:176:GLY:O	1:M:177:ALA:HB3	2.13	0.48
1:M:419:ILE:HG22	1:M:425:LYS:HD3	1.91	0.48
1:M:578:TRP:N	1:M:578:TRP:CD1	2.82	0.48
1:M:730:GLN:C	1:M:733:ASP:OD1	2.51	0.48
1:M:862:VAL:HB	1:M:870:ILE:HD11	1.94	0.48
1:M:1345:LEU:HD22	5:Q:145:VAL:HG21	1.94	0.48
2:N:268:ILE:HD11	2:N:300:MET:HE3	1.95	0.48
2:N:359:ARG:CZ	2:N:573:LEU:HD21	2.44	0.48
2:N:485:ASN:O	2:N:486:THR:CB	2.61	0.48
2:N:505:TRP:CH2	2:N:731:GLU:OE1	2.66	0.48
2:N:625:ILE:HG12	2:N:639:CYS:SG	2.53	0.48
2:N:851:GLN:HG2	2:N:952:PHE:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:58:SER:HB2	5:Q:75:GLU:CA	2.27	0.48
6:R:84:LEU:HD13	6:R:112:MET:HG2	1.94	0.48
9:U:57:THR:CA	9:U:58:VAL:HB	2.42	0.48
1:A:51:ARG:NH1	1:A:57:ASP:OD1	2.30	0.48
1:A:73:GLY:O	2:B:1163:TYR:CZ	2.67	0.48
1:A:205:LYS:H	1:A:206:ARG:NE	2.11	0.48
1:A:377:ALA:HA	1:A:442:ILE:HD11	1.95	0.48
1:A:877:ASP:HB3	1:A:1372:ARG:HH12	1.78	0.48
1:A:921:ILE:O	1:A:922:GLU:OE1	2.30	0.48
1:A:1181:ASP:HA	1:A:1184:VAL:CG2	2.43	0.48
1:A:1345:LEU:HD22	5:E:145:VAL:HG21	1.94	0.48
2:B:88:THR:HA	2:B:98:THR:HA	1.94	0.48
2:B:428:PHE:O	2:B:429:ASN:CG	2.52	0.48
2:B:561:PRO:HB3	2:B:562:ASN:HB2	1.96	0.48
2:B:741:LEU:CD1	2:B:764:LYS:HG2	2.44	0.48
2:B:967:ASP:OD1	2:B:1088:VAL:HG23	2.13	0.48
2:B:1096:ALA:O	2:B:1097:ARG:HB2	2.14	0.48
4:D:88:PHE:O	4:D:92:GLN:HG2	2.14	0.48
7:G:47:ILE:HB	7:G:78:VAL:O	2.14	0.48
8:H:40:LEU:HG	8:H:42:ILE:HG23	1.96	0.48
9:I:34:TYR:CZ	9:I:36:GLU:HB2	2.49	0.48
10:J:49:ILE:CD1	10:J:50:LEU:N	2.76	0.48
12:L:19:THR:HG21	12:L:35:ALA:H	1.78	0.48
1:M:521:GLN:O	1:M:1370:ASN:HB2	2.13	0.48
1:M:747:ASN:O	1:M:748:ASN:C	2.51	0.48
1:M:766:GLN:O	1:M:809:SER:HB2	2.13	0.48
1:M:849:LYS:O	1:M:1408:PHE:CE2	2.67	0.48
1:M:921:ILE:O	1:M:922:GLU:CD	2.51	0.48
1:M:1259:MET:O	1:M:1260:ILE:CB	2.60	0.48
2:N:12:LEU:HD22	2:N:13:THR:N	2.29	0.48
2:N:576:HIS:CD2	2:N:576:HIS:C	2.87	0.48
2:N:747:PHE:CE1	2:N:1033:ALA:HB1	2.49	0.48
2:N:831:ASN:HD21	2:N:833:ALA:HB3	1.77	0.48
2:N:1191:LEU:HD23	2:N:1191:LEU:C	2.33	0.48
2:N:1207:LYS:HG2	2:N:1208:ASN:N	2.19	0.48
4:P:7:GLU:HG3	4:P:15:LEU:HD22	1.95	0.48
4:P:88:PHE:O	4:P:92:GLN:HG2	2.14	0.48
7:S:83:PHE:HD2	7:S:86:GLU:OE2	1.96	0.48
1:A:39:PHE:HB3	1:A:42:THR:OG1	2.14	0.48
1:A:42:THR:CB	1:A:55:LEU:CB	2.92	0.48
1:A:59:ARG:N	1:A:60:LEU:CG	2.74	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:414:ASP:OD2	1:A:433:ARG:CZ	2.61	0.48
1:A:446:ASP:HB3	1:A:466:ILE:HD11	1.95	0.48
1:A:592:ILE:C	1:A:593:ASN:HD22	2.16	0.48
1:A:864:ASN:ND2	1:A:865:ALA:N	2.60	0.48
1:A:919:ASN:O	1:A:920:SER:HB2	2.11	0.48
2:B:273:ARG:HH11	2:B:310:ILE:CD1	2.26	0.48
2:B:281:ARG:CG	9:I:6:TYR:CD1	2.96	0.48
2:B:919:GLN:HA	2:B:920:LEU:HA	1.59	0.48
1:M:115:LEU:HD21	1:M:227:HIS:CG	2.48	0.48
1:M:148:MET:O	1:M:179:GLN:HB3	2.14	0.48
1:M:156:ALA:O	1:M:157:GLY:O	2.32	0.48
1:M:202:LEU:N	1:M:204:GLU:OE2	2.45	0.48
1:M:236:ARG:O	1:M:237:PRO:C	2.51	0.48
1:M:855:MET:CG	1:M:1065:GLU:H	2.27	0.48
2:N:165:ILE:O	2:N:165:ILE:CG2	2.60	0.48
2:N:216:PRO:HB2	2:N:218:PRO:CD	2.40	0.48
2:N:426:ARG:HB3	2:N:427:GLU:H	1.52	0.48
2:N:715:ARG:HH22	2:N:1036:PHE:HA	1.77	0.48
2:N:819:TYR:O	2:N:820:SER:CB	2.55	0.48
2:N:888:ILE:CG2	2:N:900:ILE:HA	2.43	0.48
3:O:34:ARG:CZ	11:W:39:HIS:CD2	2.97	0.48
7:S:102:ALA:O	7:S:103:ASN:OD1	2.30	0.48
1:A:359:ILE:HD11	1:A:488:PHE:HA	1.95	0.48
1:A:553:MET:O	1:A:554:ASN:C	2.52	0.48
1:A:559:VAL:H	1:A:560:PRO:CA	2.25	0.48
1:A:578:TRP:CD1	1:A:578:TRP:N	2.82	0.48
1:A:822:HIS:CE1	2:B:753:SER:CB	2.83	0.48
1:A:1043:VAL:CG1	1:A:1044:ALA:N	2.76	0.48
1:A:1167:GLU:O	1:A:1167:GLU:CG	2.62	0.48
1:A:1209:LYS:O	1:A:1210:LEU:HD23	2.13	0.48
1:A:1463:THR:O	1:A:1464:ALA:HB2	2.14	0.48
2:B:87:PRO:HG3	2:B:157:ILE:CD1	2.29	0.48
2:B:99:MET:SD	2:B:109:LEU:HD22	2.53	0.48
2:B:297:LEU:O	2:B:300:MET:N	2.32	0.48
2:B:576:HIS:CD2	2:B:576:HIS:C	2.87	0.48
2:B:1066:THR:C	3:C:30:ASN:ND2	2.56	0.48
2:B:1088:VAL:O	2:B:1090:ASP:N	2.47	0.48
4:D:25:LEU:HD21	4:D:29:GLU:OE2	2.12	0.48
9:I:69:PRO:HG2	9:I:85:PHE:CE1	2.49	0.48
11:K:76:THR:HG23	11:K:76:THR:O	2.14	0.48
1:M:20:GLN:O	2:N:1203:ARG:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:242:ILE:HG21	1:M:245:LEU:CD1	2.41	0.48
1:M:395:GLN:HA	1:M:432:LEU:CD1	2.44	0.48
1:M:397:LEU:O	1:M:400:ASN:HB2	2.13	0.48
1:M:558:TRP:HH2	11:W:61:LYS:CG	2.22	0.48
1:M:569:PRO:HG3	1:M:578:TRP:CH2	2.48	0.48
1:M:717:ARG:HD3	1:M:717:ARG:C	2.34	0.48
1:M:1028:LYS:HB2	1:M:1028:LYS:HZ3	1.78	0.48
1:M:1390:ILE:HD13	1:M:1395:ILE:HG22	1.95	0.48
1:M:1450:TYR:HD1	7:S:60:GLY:C	2.17	0.48
2:N:196:VAL:HG12	2:N:197:ILE:O	2.13	0.48
2:N:310:ILE:HB	2:N:311:GLN:C	2.26	0.48
2:N:440:THR:CG2	2:N:441:ASN:H	2.25	0.48
2:N:508:VAL:CA	2:N:509:CYS:CB	2.86	0.48
2:N:626:VAL:HG13	2:N:637:GLU:O	2.14	0.48
2:N:816:ILE:HG22	2:N:1003:PRO:HG3	1.95	0.48
2:N:1037:THR:CG2	2:N:1039:VAL:HB	2.44	0.48
2:N:1061:MET:HG3	2:N:1074:VAL:CB	2.44	0.48
7:S:27:LEU:HD21	7:S:71:PHE:CD2	2.49	0.48
1:A:90:LYS:HE3	1:A:299:GLU:CG	2.35	0.48
1:A:357:THR:OG1	2:B:1092:ILE:HG22	2.14	0.48
1:A:425:LYS:HZ1	1:A:430:ILE:CG1	2.08	0.48
1:A:717:ARG:HD3	1:A:717:ARG:C	2.34	0.48
1:A:873:ALA:HA	1:A:1003:PHE:HZ	1.79	0.48
1:A:947:LYS:HB3	1:A:951:PRO:CG	2.44	0.48
1:A:1218:LYS:HD2	1:A:1278:SER:HB3	1.94	0.48
1:A:1394:GLY:O	1:A:1395:ILE:O	2.32	0.48
2:B:206:ASN:H	2:B:227:SER:CB	2.25	0.48
2:B:427:GLU:O	2:B:428:PHE:CG	2.67	0.48
2:B:430:LEU:C	2:B:432:LEU:N	2.67	0.48
2:B:485:ASN:O	2:B:486:THR:CB	2.61	0.48
2:B:485:ASN:O	2:B:521:LEU:O	2.32	0.48
2:B:625:ILE:HG12	2:B:639:CYS:SG	2.53	0.48
2:B:626:VAL:HG13	2:B:637:GLU:O	2.14	0.48
2:B:660:GLU:C	2:B:661:GLN:HG2	2.34	0.48
2:B:773:ASN:HB3	10:J:62:TYR:CE2	2.48	0.48
2:B:941:VAL:HG12	2:B:955:VAL:HA	1.96	0.48
2:B:1037:THR:CG2	2:B:1039:VAL:HB	2.44	0.48
5:E:71:THR:HG23	5:E:99:HIS:HD2	1.79	0.48
7:G:14:LEU:HD11	7:G:30:LYS:HD2	1.96	0.48
8:H:7:LEU:CD2	8:H:110:LYS:HD3	2.41	0.48
9:I:24:VAL:HG13	9:I:25:LEU:H	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:193:TRP:HE3	1:M:201:ASP:HB2	1.79	0.48
1:M:485:ASN:O	1:M:485:ASN:OD1	2.31	0.48
1:M:559:VAL:H	1:M:560:PRO:CA	2.25	0.48
1:M:1043:VAL:CG1	1:M:1044:ALA:N	2.76	0.48
1:M:1281:GLY:O	1:M:1283:PRO:N	2.47	0.48
1:M:1412:VAL:O	1:M:1415:LEU:N	2.47	0.48
1:M:1500:PRO:HB2	4:P:90:ARG:HH12	1.78	0.48
2:N:268:ILE:HG13	2:N:269:VAL:H	1.78	0.48
2:N:640:ILE:CD1	2:N:673:LEU:HD22	2.38	0.48
2:N:1096:ALA:O	2:N:1097:ARG:HB2	2.14	0.48
3:O:73:SER:HB2	3:O:239:ILE:HG21	1.94	0.48
4:P:85:PHE:C	4:P:86:HIS:CG	2.87	0.48
7:S:14:LEU:CD1	7:S:30:LYS:HZ2	2.27	0.48
9:U:72:ASP:O	9:U:73:LYS:O	2.31	0.48
10:V:40:LEU:HB3	10:V:46:ARG:HB2	1.95	0.48
1:A:390:ASN:O	1:A:391:ILE:C	2.52	0.48
1:A:874:TYR:HB2	1:A:878:GLY:CA	2.44	0.48
2:B:569:ASN:OD1	2:B:614:THR:HG22	2.14	0.48
2:B:605:ILE:CB	9:I:61:ASP:CB	2.82	0.48
2:B:838:GLY:HA2	2:B:841:ARG:CD	2.41	0.48
2:B:1061:MET:HG3	2:B:1074:VAL:CB	2.44	0.48
3:C:135:LEU:HD22	3:C:141:ARG:C	2.34	0.48
4:D:7:GLU:HG3	4:D:15:LEU:HD22	1.95	0.48
9:I:64:THR:C	9:I:66:PRO:HD3	2.33	0.48
1:M:24:LEU:CB	2:N:1199:ASN:O	2.44	0.48
1:M:96:GLY:O	1:M:98:LEU:N	2.46	0.48
1:M:194:LYS:CG	1:M:195:ARG:N	2.77	0.48
1:M:254:PRO:CG	1:M:266:ASP:CG	2.69	0.48
1:M:414:ASP:OD2	1:M:433:ARG:CZ	2.61	0.48
1:M:444:ASP:O	1:M:445:GLY:C	2.51	0.48
1:M:503:THR:C	1:M:505:ALA:N	2.64	0.48
1:M:877:ASP:HB3	1:M:1372:ARG:HH12	1.79	0.48
1:M:1109:ASN:O	1:M:1111:ALA:N	2.47	0.48
1:M:1155:ILE:HG12	1:M:1196:LEU:CD2	2.43	0.48
1:M:1299:ILE:HD11	1:M:1305:GLU:HG3	1.95	0.48
2:N:330:THR:O	2:N:334:ARG:CG	2.62	0.48
2:N:471:ARG:NH1	2:N:771:LEU:HD11	2.29	0.48
2:N:1057:GLY:O	2:N:1058:PHE:O	2.31	0.48
2:N:1079:THR:OG1	2:N:1080:TYR:N	2.46	0.48
2:N:1088:VAL:O	2:N:1090:ASP:N	2.47	0.48
3:O:137:ASP:HB3	10:V:16:ASP:HB2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:37:VAL:O	4:P:41:ARG:HG3	2.13	0.48
4:P:97:CYS:CB	4:P:131:ARG:HH22	2.27	0.48
5:Q:67:SER:C	5:Q:69:LYS:H	2.18	0.48
5:Q:71:THR:HG23	5:Q:99:HIS:HD2	1.79	0.48
7:S:164:MET:HE1	7:S:170:GLY:H	1.79	0.48
10:V:63:ASN:HA	10:V:64:PRO:HD3	1.71	0.48
1:A:999:LYS:HD3	1:A:1053:GLU:HG3	1.96	0.47
1:A:1109:ASN:O	1:A:1111:ALA:N	2.47	0.47
1:A:1236:ALA:HB3	1:A:1239:LEU:HD23	1.96	0.47
2:B:212:LYS:HZ1	2:B:381:PRO:HG3	1.78	0.47
2:B:366:TYR:CZ	2:B:567:PHE:CZ	3.02	0.47
2:B:402:LEU:O	2:B:405:MET:N	2.47	0.47
2:B:651:ASP:CB	2:B:662:ARG:HB3	2.44	0.47
2:B:654:ARG:CZ	2:B:657:ILE:CG2	2.91	0.47
4:D:126:GLU:O	4:D:130:LEU:HG	2.14	0.47
6:F:93:MET:CE	7:G:66:GLN:O	2.61	0.47
10:J:40:LEU:HB3	10:J:46:ARG:HB2	1.94	0.47
1:M:177:ALA:HB1	1:M:179:GLN:HG3	1.78	0.47
1:M:328:LEU:HD13	1:M:328:LEU:C	2.30	0.47
1:M:452:ARG:HH11	1:M:486:ALA:CB	2.26	0.47
1:M:546:PHE:CE1	8:T:43:ASN:ND2	2.82	0.47
1:M:556:MET:HE3	1:M:562:TRP:NE1	2.29	0.47
1:M:570:VAL:O	1:M:570:VAL:HG12	2.14	0.47
1:M:812:ARG:HH11	2:N:716:VAL:CG2	2.25	0.47
1:M:1263:ASP:O	1:M:1264:VAL:C	2.51	0.47
2:N:87:PRO:CA	2:N:113:SER:HB3	2.44	0.47
2:N:290:ASP:OD2	2:N:291:PRO:N	2.47	0.47
2:N:450:GLY:CA	2:N:464:GLY:H	2.27	0.47
2:N:561:PRO:HB3	2:N:562:ASN:HB2	1.96	0.47
2:N:654:ARG:CZ	2:N:657:ILE:CG2	2.92	0.47
2:N:664:GLY:O	2:N:665:TRP:CB	2.59	0.47
2:N:712:PRO:O	2:N:713:ALA:O	2.32	0.47
2:N:982:THR:HG23	2:N:982:THR:O	2.13	0.47
2:N:1067:GLY:N	3:O:30:ASN:ND2	2.62	0.47
2:N:1113:ARG:N	2:N:1114:ASP:HA	2.28	0.47
2:N:1147:TYR:O	2:N:1184:LEU:O	2.32	0.47
3:O:85:GLU:O	3:O:86:TYR:C	2.51	0.47
3:O:188:GLN:C	3:O:190:THR:H	2.15	0.47
5:Q:103:ILE:HD12	5:Q:103:ILE:O	2.13	0.47
9:U:20:LYS:CD	9:U:21:VAL:N	2.49	0.47
9:U:99:LEU:C	9:U:99:LEU:CD2	2.82	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:110:TRP:HA	1:A:111:ASN:HA	1.51	0.47
1:A:120:SER:N	1:A:122:PRO:HA	2.27	0.47
1:A:214:HIS:CE1	1:A:238:ASP:O	2.67	0.47
1:A:347:MET:CE	1:A:1407:SER:HA	2.44	0.47
1:A:388:PRO:HA	1:A:391:ILE:CD1	2.44	0.47
1:A:683:LYS:O	1:A:686:THR:HG22	2.15	0.47
1:A:810:TYR:CD2	2:B:750:HIS:O	2.66	0.47
1:A:1070:LEU:CD1	1:A:1071:ALA:N	2.67	0.47
1:A:1093:SER:O	1:A:1094:SER:OG	2.30	0.47
2:B:533:VAL:O	2:B:616:ALA:HB2	2.13	0.47
2:B:657:ILE:CD1	2:B:657:ILE:C	2.82	0.47
3:C:84:LEU:CD2	3:C:84:LEU:H	2.27	0.47
5:E:132:GLU:O	5:E:133:SER:C	2.52	0.47
7:G:147:LYS:HG3	7:G:169:LEU:CD2	2.43	0.47
9:I:20:LYS:O	9:I:23:ARG:N	2.47	0.47
11:K:80:CYS:HA	11:K:81:SER:HA	1.64	0.47
11:K:81:SER:HB2	11:K:84:GLN:HB2	1.96	0.47
1:M:39:PHE:HB3	1:M:42:THR:OG1	2.13	0.47
1:M:68:LYS:O	1:M:70:GLN:N	2.47	0.47
1:M:556:MET:HE3	1:M:562:TRP:CE2	2.49	0.47
1:M:670:ILE:HG22	1:M:748:ASN:CB	2.30	0.47
1:M:793:PHE:CZ	1:M:817:GLN:CD	2.88	0.47
1:M:948:PHE:O	1:M:949:ILE:HG12	2.14	0.47
1:M:1167:GLU:O	1:M:1167:GLU:CG	2.62	0.47
1:M:1192:SER:N	1:M:1193:PRO:CD	2.57	0.47
2:N:215:ALA:CA	2:N:217:SER:CB	2.76	0.47
2:N:287:ILE:HG12	2:N:368:ILE:CG1	2.44	0.47
2:N:329:VAL:HG12	2:N:330:THR:HG22	1.97	0.47
2:N:343:GLN:NE2	2:N:354:GLU:HA	2.28	0.47
2:N:428:PHE:O	2:N:429:ASN:CG	2.52	0.47
2:N:1095:ARG:HH11	2:N:1098:GLY:H	1.63	0.47
2:N:1111:ARG:C	2:N:1112:SER:OG	2.52	0.47
3:O:33:ARG:O	3:O:37:LEU:HG	2.14	0.47
3:O:65:ARG:NH1	3:O:65:ARG:HG2	2.28	0.47
4:P:64:VAL:O	4:P:64:VAL:CG1	2.60	0.47
6:R:106:ASP:C	6:R:108:LEU:H	2.18	0.47
8:T:7:LEU:HD23	8:T:7:LEU:HA	1.73	0.47
8:T:40:LEU:HG	8:T:42:ILE:HG23	1.96	0.47
9:U:25:LEU:CD1	9:U:38:ALA:CB	2.92	0.47
9:U:62:ALA:HB3	9:U:102:VAL:HG21	1.96	0.47
1:A:20:GLN:O	2:B:1203:ARG:N	2.46	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:118:ASP:HB3	1:A:172:HIS:H	1.78	0.47
1:A:155:SER:HB3	1:A:169:ASN:CA	2.40	0.47
1:A:156:ALA:O	1:A:157:GLY:O	2.32	0.47
1:A:177:ALA:HB2	1:A:179:GLN:HG3	1.84	0.47
1:A:778:GLY:HA2	1:A:1091:GLY:CA	2.45	0.47
1:A:781:ILE:CG2	1:A:803:ARG:CA	2.91	0.47
1:A:1066:MET:HE1	1:A:1442:MET:HE2	1.96	0.47
1:A:1290:MET:HA	1:A:1311:VAL:O	2.14	0.47
1:A:1342:LEU:HD23	1:A:1347:ILE:HA	1.96	0.47
2:B:189:ILE:O	2:B:189:ILE:CG1	2.52	0.47
2:B:215:ALA:C	2:B:217:SER:CA	2.83	0.47
2:B:247:ASN:C	2:B:249:GLU:N	2.67	0.47
2:B:450:GLY:CA	2:B:464:GLY:H	2.27	0.47
2:B:1079:THR:OG1	2:B:1080:TYR:N	2.46	0.47
3:C:45:ILE:HA	3:C:160:ALA:HA	1.97	0.47
3:C:65:ARG:HG2	3:C:65:ARG:HH11	1.80	0.47
4:D:85:PHE:O	4:D:86:HIS:ND1	2.46	0.47
7:G:93:THR:CG2	7:G:94:THR:N	2.77	0.47
9:I:57:THR:HA	9:I:58:VAL:HB	1.96	0.47
11:K:31:VAL:O	11:K:31:VAL:HG12	2.13	0.47
1:M:73:GLY:O	2:N:1163:TYR:CZ	2.67	0.47
1:M:155:SER:HB3	1:M:169:ASN:CA	2.40	0.47
1:M:589:PRO:HB2	1:M:592:ILE:HD12	1.96	0.47
1:M:605:ASN:N	1:M:606:PRO:CA	2.77	0.47
1:M:947:LYS:HB3	1:M:951:PRO:CG	2.44	0.47
1:M:999:LYS:HD3	1:M:1053:GLU:HG3	1.96	0.47
2:N:504:HIS:O	2:N:508:VAL:HG23	2.14	0.47
2:N:1205:PHE:HD2	2:N:1210:LYS:CB	2.26	0.47
2:N:1208:ASN:C	2:N:1210:LYS:N	2.68	0.47
5:Q:198:GLU:N	5:Q:199:THR:CA	2.77	0.47
6:R:96:PRO:CG	7:S:19:PHE:HB2	2.36	0.47
7:S:80:TRP:CZ3	7:S:107:LEU:CD2	2.98	0.47
7:S:147:LYS:HG3	7:S:169:LEU:CD2	2.44	0.47
9:U:34:TYR:CZ	9:U:36:GLU:HB2	2.49	0.47
12:X:19:THR:HG21	12:X:35:ALA:H	1.78	0.47
1:A:94:HIS:H	1:A:98:LEU:HG	1.79	0.47
1:A:332:ARG:HG2	1:A:332:ARG:HH11	1.78	0.47
1:A:503:THR:C	1:A:505:ALA:H	2.18	0.47
1:A:518:VAL:O	1:A:518:VAL:HG12	2.14	0.47
1:A:594:LEU:O	1:A:612:LEU:HD12	2.15	0.47
1:A:1314:THR:HG23	1:A:1315:ASP:N	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:196:VAL:HG12	2:B:197:ILE:O	2.13	0.47
2:B:498:ARG:O	2:B:499:GLN:C	2.53	0.47
2:B:930:LEU:HD23	2:B:930:LEU:C	2.35	0.47
2:B:951:LYS:NZ	12:L:36:LYS:H	2.13	0.47
2:B:985:HIS:HE1	2:B:996:VAL:HG11	1.76	0.47
2:B:1095:ARG:HH21	2:B:1115:GLY:C	2.18	0.47
2:B:1192:PHE:O	2:B:1196:MET:HG2	2.13	0.47
4:D:96:LEU:O	4:D:97:CYS:CB	2.62	0.47
5:E:120:THR:HG23	5:E:121:VAL:N	2.30	0.47
1:M:42:THR:CB	1:M:55:LEU:CB	2.92	0.47
1:M:98:LEU:C	1:M:101:ILE:HG22	2.35	0.47
1:M:378:LYS:CA	1:M:441:HIS:HD2	2.25	0.47
1:M:553:MET:O	1:M:554:ASN:C	2.52	0.47
1:M:758:LYS:HE3	1:M:758:LYS:HA	1.97	0.47
1:M:775:ILE:HD12	1:M:775:ILE:H	1.78	0.47
1:M:1071:ALA:HB1	1:M:1373:HIS:CD2	2.42	0.47
1:M:1236:ALA:HB3	1:M:1239:LEU:HD23	1.96	0.47
2:N:455:GLN:HG3	2:N:455:GLN:O	2.14	0.47
2:N:463:VAL:HG12	2:N:464:GLY:O	2.15	0.47
2:N:1095:ARG:HH21	2:N:1115:GLY:C	2.18	0.47
3:O:45:ILE:HA	3:O:160:ALA:HA	1.97	0.47
8:T:40:LEU:HA	8:T:101:LEU:O	2.13	0.47
8:T:89:GLU:HG3	8:T:90:LYS:N	2.29	0.47
9:U:33:ASP:O	9:U:34:TYR:O	2.33	0.47
10:V:1:MET:O	10:V:2:ILE:O	2.31	0.47
1:A:116:LYS:HA	1:A:147:LYS:HZ2	1.78	0.47
1:A:170:MET:O	1:A:170:MET:CG	2.53	0.47
1:A:640:TRP:N	1:A:641:LYS:C	2.68	0.47
1:A:1103:ARG:HD3	1:A:1107:ILE:HD11	1.97	0.47
2:B:576:HIS:CE1	2:B:582:LEU:HB2	2.49	0.47
2:B:981:MET:HE3	11:K:66:LEU:HD21	1.97	0.47
2:B:1054:GLN:HG2	3:C:202:TRP:CE3	2.48	0.47
6:F:106:ASP:C	6:F:108:LEU:H	2.18	0.47
7:G:27:LEU:HD21	7:G:71:PHE:CD2	2.49	0.47
8:H:63:LEU:HD22	8:H:64:ASN:N	2.29	0.47
9:I:33:ASP:O	9:I:34:TYR:O	2.33	0.47
9:I:70:ARG:HG3	9:I:84:VAL:CG2	2.44	0.47
1:M:59:ARG:H	1:M:60:LEU:HD23	1.80	0.47
1:M:87:GLU:O	1:M:88:LEU:HG	2.15	0.47
1:M:359:ILE:HD11	1:M:488:PHE:HA	1.94	0.47
1:M:388:PRO:CB	1:M:434:TYR:CE2	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:640:TRP:HE3	1:M:641:LYS:HB2	1.80	0.47
1:M:712:PRO:C	1:M:714:MET:N	2.67	0.47
1:M:822:HIS:CE1	2:N:753:SER:CB	2.92	0.47
1:M:947:LYS:CB	1:M:948:PHE:CA	2.92	0.47
1:M:1163:ASP:O	1:M:1164:THR:HG22	2.15	0.47
2:N:105:ARG:HG2	2:N:189:ILE:HD12	1.96	0.47
2:N:344:LYS:O	2:N:348:PRO:HB3	2.13	0.47
2:N:651:ASP:CB	2:N:662:ARG:HB3	2.44	0.47
2:N:844:PHE:O	2:N:844:PHE:CD1	2.68	0.47
5:Q:198:GLU:H	5:Q:199:THR:HA	1.79	0.47
7:S:93:THR:CG2	7:S:94:THR:N	2.77	0.47
9:U:93:GLY:HA3	9:U:94:ASP:HA	1.58	0.47
1:A:23:ILE:O	1:A:24:LEU:C	2.52	0.47
1:A:57:ASP:CB	1:A:58:PRO:HD2	2.36	0.47
1:A:68:LYS:O	1:A:70:GLN:N	2.47	0.47
1:A:126:ASP:O	1:A:130:TYR:CE2	2.67	0.47
1:A:343:ARG:NH2	1:A:1409:GLU:OE1	2.44	0.47
1:A:710:PRO:O	1:A:711:GLU:CB	2.58	0.47
1:A:740:GLU:HG2	1:A:764:ILE:HD12	1.97	0.47
1:A:922:GLU:N	1:A:923:ASN:HA	2.29	0.47
1:A:1299:ILE:HG22	1:A:1301:ASP:H	1.78	0.47
1:A:1450:TYR:C	1:A:1451:LEU:CG	2.83	0.47
1:A:1480:GLU:CD	4:D:44:GLU:CG	2.60	0.47
2:B:263:ARG:HB3	2:B:322:LYS:CE	2.44	0.47
2:B:440:THR:CG2	2:B:441:ASN:H	2.25	0.47
2:B:488:ILE:CG2	2:B:490:ARG:H	2.28	0.47
2:B:1070:LEU:N	2:B:1070:LEU:HD23	2.30	0.47
2:B:1162:SER:O	2:B:1164:LYS:HG3	2.14	0.47
3:C:137:ASP:HB3	10:J:16:ASP:HB2	1.95	0.47
3:C:168:HIS:C	3:C:170:LYS:N	2.68	0.47
5:E:54:ARG:O	5:E:55:THR:OG1	2.30	0.47
6:F:71:THR:CG2	6:F:126:ARG:HH11	2.27	0.47
7:G:89:ASP:OD1	7:G:145:ARG:HG2	2.15	0.47
7:G:97:LYS:CE	7:G:124:PRO:HG3	2.44	0.47
9:I:99:LEU:C	9:I:99:LEU:CD2	2.82	0.47
1:M:90:LYS:HD3	1:M:282:VAL:CG1	2.44	0.47
1:M:372:VAL:HG21	1:M:466:ILE:CG2	2.43	0.47
1:M:640:TRP:N	1:M:641:LYS:O	2.35	0.47
1:M:822:HIS:CD2	2:N:753:SER:CB	2.97	0.47
1:M:1342:LEU:HD23	1:M:1347:ILE:HA	1.96	0.47
2:N:281:ARG:CG	9:U:6:TYR:CD1	2.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:657:ILE:C	2:N:657:ILE:CD1	2.82	0.47
2:N:755:ARG:N	2:N:755:ARG:HD2	2.29	0.47
2:N:890:PRO:HA	2:N:891:GLY:HA2	1.54	0.47
2:N:930:LEU:HD23	2:N:930:LEU:C	2.35	0.47
2:N:951:LYS:NZ	12:X:36:LYS:H	2.13	0.47
2:N:981:MET:HE3	11:W:66:LEU:HD21	1.97	0.47
2:N:1056:ARG:HD3	2:N:1056:ARG:N	2.30	0.47
3:O:4:GLU:N	3:O:5:THR:CA	2.74	0.47
3:O:65:ARG:HG2	3:O:65:ARG:HH11	1.80	0.47
3:O:135:LEU:HD22	3:O:141:ARG:C	2.34	0.47
4:P:126:GLU:O	4:P:130:LEU:HG	2.15	0.47
4:P:131:ARG:O	4:P:134:GLN:HB2	2.13	0.47
7:S:97:LYS:CE	7:S:124:PRO:HG3	2.44	0.47
7:S:145:ARG:O	7:S:146:LEU:HD12	2.15	0.47
8:T:83:VAL:CG2	8:T:93:VAL:HG22	2.43	0.47
9:U:70:ARG:HG3	9:U:84:VAL:CG2	2.44	0.47
11:W:76:THR:HG23	11:W:76:THR:O	2.14	0.47
1:A:63:ILE:O	1:A:63:ILE:HG12	2.14	0.47
1:A:106:GLU:CG	1:A:144:CYS:HB3	2.44	0.47
1:A:388:PRO:HA	1:A:391:ILE:HD13	1.96	0.47
1:A:625:LYS:HG2	1:A:625:LYS:O	2.13	0.47
1:A:762:ILE:O	1:A:762:ILE:CG1	2.59	0.47
1:A:781:ILE:HD12	1:A:782:PRO:CD	2.45	0.47
1:A:855:MET:CG	1:A:1065:GLU:H	2.26	0.47
1:A:1066:MET:HG2	2:B:1128:ILE:HG22	1.96	0.47
1:A:1194:TRP:CZ2	1:A:1262:GLU:CG	2.96	0.47
1:A:1201:ASP:O	1:A:1205:MET:HG2	2.15	0.47
2:B:12:LEU:HD22	2:B:13:THR:N	2.29	0.47
2:B:105:ARG:HG2	2:B:189:ILE:HD12	1.96	0.47
2:B:215:ALA:CA	2:B:217:SER:CB	2.76	0.47
2:B:216:PRO:N	2:B:217:SER:HA	2.30	0.47
2:B:262:ILE:HA	2:B:263:ARG:HA	1.61	0.47
2:B:268:ILE:HD11	2:B:300:MET:HE1	1.96	0.47
2:B:463:VAL:HG12	2:B:464:GLY:O	2.15	0.47
2:B:844:PHE:CD1	2:B:844:PHE:O	2.68	0.47
2:B:1067:GLY:N	3:C:30:ASN:ND2	2.62	0.47
2:B:1208:ASN:C	2:B:1210:LYS:N	2.67	0.47
3:C:159:ILE:HG13	3:C:159:ILE:O	2.14	0.47
4:D:29:GLU:OE2	4:D:33:LEU:CD1	2.62	0.47
4:D:51:MET:HE3	4:D:55:MET:HE2	0.65	0.47
5:E:103:ILE:HD12	5:E:103:ILE:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:198:GLU:N	5:E:199:THR:CA	2.78	0.47
7:G:130:ASN:ND2	7:G:139:GLU:OE2	2.40	0.47
9:I:12:ASN:CG	9:I:13:MET:N	2.67	0.47
1:M:23:ILE:O	1:M:24:LEU:C	2.52	0.47
1:M:126:ASP:O	1:M:130:TYR:CE2	2.67	0.47
1:M:213:VAL:HG13	1:M:217:PHE:CZ	2.50	0.47
1:M:237:PRO:HA	1:M:240:MET:CE	2.44	0.47
1:M:254:PRO:CG	2:N:1103:LEU:HD21	2.44	0.47
1:M:431:PRO:O	1:M:432:LEU:CG	2.63	0.47
1:M:484:TYR:O	1:M:486:ALA:N	2.48	0.47
1:M:683:LYS:O	1:M:686:THR:HG22	2.15	0.47
1:M:772:GLY:HA3	1:M:806:ILE:H	1.80	0.47
1:M:846:ARG:HD2	1:M:1391:THR:C	2.35	0.47
1:M:959:LEU:HD23	1:M:1024:LEU:HD12	1.95	0.47
1:M:1071:ALA:HB1	1:M:1373:HIS:CG	2.50	0.47
1:M:1103:ARG:HD3	1:M:1107:ILE:HD11	1.97	0.47
1:M:1110:VAL:O	1:M:1110:VAL:CG1	2.50	0.47
1:M:1299:ILE:HG22	1:M:1301:ASP:H	1.78	0.47
1:M:1317:ILE:HA	1:M:1318:ASN:HA	1.74	0.47
2:N:54:SER:HB2	2:N:79:PHE:H	1.78	0.47
2:N:212:LYS:HZ1	2:N:381:PRO:CG	2.28	0.47
2:N:427:GLU:O	2:N:428:PHE:CG	2.67	0.47
2:N:498:ARG:O	2:N:499:GLN:C	2.53	0.47
2:N:533:VAL:O	2:N:616:ALA:HB2	2.13	0.47
2:N:569:ASN:OD1	2:N:614:THR:HG22	2.14	0.47
2:N:576:HIS:CE1	2:N:582:LEU:HB2	2.49	0.47
2:N:747:PHE:N	2:N:747:PHE:HD1	2.13	0.47
2:N:941:VAL:HG12	2:N:955:VAL:HA	1.96	0.47
2:N:1150:ILE:CG2	2:N:1151:VAL:N	2.78	0.47
3:O:84:LEU:CD2	3:O:84:LEU:H	2.27	0.47
3:O:168:HIS:C	3:O:170:LYS:N	2.68	0.47
4:P:29:GLU:OE2	4:P:33:LEU:CD1	2.62	0.47
4:P:96:LEU:O	4:P:97:CYS:CB	2.62	0.47
4:P:99:GLU:HA	4:P:124:LEU:CD1	2.45	0.47
5:Q:136:ILE:HD12	5:Q:136:ILE:O	2.14	0.47
5:Q:170:LEU:CD2	5:Q:171:PRO:HD2	2.45	0.47
6:R:71:THR:CG2	6:R:126:ARG:HH11	2.27	0.47
7:S:89:ASP:OD1	7:S:145:ARG:HG2	2.15	0.47
8:T:119:VAL:O	8:T:120:TYR:HB2	2.14	0.47
9:U:12:ASN:CG	9:U:13:MET:N	2.67	0.47
9:U:57:THR:HA	9:U:58:VAL:HB	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:79:HIS:CD2	9:U:80:GLN:NE2	2.82	0.47
10:V:7:CYS:HB2	10:V:45:CYS:CB	2.39	0.47
10:V:49:ILE:CD1	10:V:50:LEU:N	2.76	0.47
1:A:104:ILE:CG2	1:A:107:CYS:HB2	2.44	0.47
1:A:107:CYS:HA	1:A:116:LYS:HD2	1.97	0.47
1:A:148:MET:C	1:A:149:VAL:CG2	2.82	0.47
1:A:237:PRO:HA	1:A:240:MET:CE	2.44	0.47
1:A:242:ILE:HG21	1:A:245:LEU:CD1	2.41	0.47
1:A:266:ASP:O	1:A:269:THR:OG1	2.30	0.47
1:A:1071:ALA:HB1	1:A:1373:HIS:CG	2.50	0.47
1:A:1317:ILE:HA	1:A:1318:ASN:HA	1.74	0.47
1:A:1411:THR:HB	1:A:1412:VAL:H	1.52	0.47
2:B:255:ILE:HG23	2:B:303:CYS:SG	2.55	0.47
2:B:471:ARG:NH1	2:B:771:LEU:HD11	2.29	0.47
2:B:938:VAL:O	2:B:938:VAL:HG12	2.15	0.47
3:C:242:ASN:N	3:C:242:ASN:OD1	2.46	0.47
5:E:195:ARG:C	5:E:197:SER:N	2.66	0.47
7:G:14:LEU:CD2	7:G:27:LEU:CD2	2.92	0.47
12:L:31:ASN:ND2	12:L:41:CYS:HA	2.30	0.47
1:M:30:ARG:HG3	1:M:244:VAL:CG2	2.36	0.47
1:M:388:PRO:CG	6:R:94:ASN:CG	2.82	0.47
1:M:625:LYS:O	1:M:625:LYS:HG2	2.13	0.47
1:M:682:MET:HA	1:M:685:VAL:HG23	1.96	0.47
1:M:855:MET:HG2	1:M:856:VAL:N	2.30	0.47
1:M:873:ALA:HA	1:M:1003:PHE:HZ	1.79	0.47
1:M:1247:ARG:O	1:M:1248:ASP:O	2.33	0.47
2:N:438:ILE:HD13	2:N:438:ILE:H	1.79	0.47
2:N:485:ASN:HB3	2:N:486:THR:H	1.47	0.47
2:N:686:MET:C	2:N:728:THR:HG22	2.35	0.47
7:S:14:LEU:HD11	7:S:30:LYS:HD2	1.96	0.47
9:U:15:TYR:HE2	9:U:30:ARG:HB2	1.75	0.47
9:U:64:THR:C	9:U:66:PRO:HD3	2.33	0.47
10:V:45:CYS:O	10:V:48:MET:CB	2.56	0.47
11:W:81:SER:HB2	11:W:84:GLN:HB2	1.97	0.47
1:A:15:ARG:NH1	1:A:1438:GLN:HE21	2.05	0.47
1:A:90:LYS:HB3	1:A:90:LYS:HE2	1.61	0.47
1:A:104:ILE:HG23	1:A:107:CYS:CB	2.44	0.47
1:A:431:PRO:O	1:A:432:LEU:CG	2.63	0.47
1:A:484:TYR:O	1:A:486:ALA:N	2.48	0.47
1:A:558:TRP:CD1	1:A:657:ARG:HD3	2.50	0.47
1:A:589:PRO:HB2	1:A:592:ILE:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:792:HIS:HB2	1:A:817:GLN:NE2	2.30	0.47
1:A:1119:LEU:HD13	1:A:1319:LEU:HD21	1.96	0.47
2:B:87:PRO:CA	2:B:113:SER:HB3	2.45	0.47
2:B:264:SER:H	2:B:322:LYS:CE	2.27	0.47
2:B:405:MET:O	2:B:406:LEU:HD23	2.15	0.47
2:B:651:ASP:OD2	2:B:662:ARG:CB	2.63	0.47
2:B:712:PRO:O	2:B:713:ALA:O	2.32	0.47
3:C:6:HIS:HA	3:C:22:THR:HB	1.97	0.47
7:G:155:ALA:C	7:G:157:GLU:N	2.68	0.47
9:I:62:ALA:HB3	9:I:102:VAL:HG21	1.96	0.47
9:I:76:PRO:HG2	9:I:110:PHE:HB2	1.95	0.47
12:L:59:GLN:OE1	12:L:59:GLN:HA	2.14	0.47
1:M:254:PRO:HG2	1:M:266:ASP:OD1	2.12	0.47
1:M:266:ASP:O	1:M:269:THR:OG1	2.30	0.47
1:M:761:PHE:O	1:M:764:ILE:HG13	2.15	0.47
1:M:850:ALA:HB1	1:M:1395:ILE:CG2	2.43	0.47
1:M:1070:LEU:HD12	1:M:1071:ALA:CA	2.44	0.47
1:M:1119:LEU:HD13	1:M:1319:LEU:HD21	1.96	0.47
1:M:1275:GLU:O	1:M:1277:ILE:HG23	2.15	0.47
1:M:1359:ARG:HH22	1:M:1371:TYR:HD1	1.61	0.47
1:M:1501:ASP:O	1:M:1502:ALA:C	2.54	0.47
2:N:317:LEU:HB2	2:N:335:LEU:CD2	2.45	0.47
2:N:759:GLN:HG3	2:N:972:ARG:CA	2.45	0.47
2:N:943:VAL:CG2	2:N:953:VAL:HG13	2.36	0.47
2:N:1070:LEU:N	2:N:1070:LEU:HD23	2.29	0.47
3:O:159:ILE:O	3:O:159:ILE:HG13	2.14	0.47
4:P:51:MET:HE3	4:P:55:MET:HE2	0.66	0.47
5:Q:195:ARG:C	5:Q:197:SER:N	2.67	0.47
1:A:268:LEU:HD22	1:A:329:LYS:HB2	1.97	0.47
1:A:312:ASN:OD1	1:A:328:LEU:O	2.32	0.47
1:A:553:MET:HE1	11:K:58:ALA:HB3	1.97	0.47
1:A:948:PHE:O	1:A:949:ILE:HG12	2.15	0.47
1:A:1070:LEU:HD12	1:A:1071:ALA:CA	2.44	0.47
1:A:1404:MET:SD	1:A:1429:GLY:CA	2.95	0.47
2:B:215:ALA:O	2:B:217:SER:OG	2.30	0.47
2:B:288:CYS:HB3	2:B:297:LEU:CD2	2.32	0.47
2:B:438:ILE:HD13	2:B:438:ILE:H	1.79	0.47
2:B:455:GLN:O	2:B:455:GLN:HG3	2.14	0.47
2:B:504:HIS:O	2:B:508:VAL:HG23	2.14	0.47
3:C:33:ARG:O	3:C:37:LEU:HG	2.14	0.47
3:C:84:LEU:HD23	3:C:84:LEU:C	2.17	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:109:CYS:SG	3:C:149:ARG:O	2.66	0.47
5:E:170:LEU:CD2	5:E:171:PRO:HD2	2.45	0.47
5:E:198:GLU:H	5:E:199:THR:HA	1.80	0.47
6:F:113:LYS:HD3	6:F:113:LYS:HA	1.77	0.47
7:G:145:ARG:O	7:G:146:LEU:HD12	2.15	0.47
1:M:174:GLY:O	1:M:175:CYS:CB	2.50	0.47
1:M:357:THR:OG1	2:N:1092:ILE:HG22	2.14	0.47
1:M:382:TYR:CZ	1:M:446:ASP:OD1	2.67	0.47
1:M:521:GLN:OE1	1:M:1077:GLU:OE1	2.32	0.47
1:M:573:LYS:NZ	8:T:74:TYR:CZ	2.83	0.47
1:M:1101:VAL:C	1:M:1103:ARG:N	2.69	0.47
1:M:1124:MET:HB2	1:M:1126:TRP:C	2.36	0.47
1:M:1271:GLY:O	1:M:1275:GLU:HB2	2.15	0.47
1:M:1276:SER:C	1:M:1277:ILE:HG12	2.25	0.47
1:M:1434:ILE:C	2:N:1141:PHE:CE2	2.88	0.47
2:N:222:VAL:HG12	2:N:223:ALA:H	1.80	0.47
2:N:225:ILE:CD1	2:N:367:MET:SD	3.03	0.47
2:N:247:ASN:C	2:N:249:GLU:N	2.67	0.47
2:N:273:ARG:HH11	2:N:310:ILE:CD1	2.26	0.47
2:N:879:TYR:N	2:N:879:TYR:HD2	2.13	0.47
2:N:907:ILE:HG12	2:N:924:ARG:HE	1.80	0.47
3:O:109:CYS:SG	3:O:149:ARG:O	2.66	0.47
5:Q:132:GLU:O	5:Q:133:SER:C	2.52	0.47
7:S:14:LEU:CD2	7:S:27:LEU:CD2	2.92	0.47
7:S:51:ASP:OD1	7:S:55:ILE:CD1	2.63	0.47
7:S:54:THR:CB	7:S:76:ARG:HD2	2.46	0.47
8:T:108:HIS:O	8:T:109:ARG:HB3	2.15	0.47
1:A:92:VAL:HG23	1:A:242:ILE:HB	1.97	0.46
1:A:208:LEU:O	1:A:209:SER:CB	2.63	0.46
1:A:775:ILE:CD1	1:A:776:VAL:N	2.65	0.46
1:A:959:LEU:HD23	1:A:1024:LEU:HD12	1.95	0.46
1:A:1359:ARG:HH22	1:A:1371:TYR:HD1	1.61	0.46
2:B:877:GLY:HA3	2:B:878:THR:HA	1.51	0.46
2:B:879:TYR:N	2:B:879:TYR:HD2	2.13	0.46
4:D:9:ASP:N	4:D:9:ASP:OD1	2.47	0.46
4:D:99:GLU:HA	4:D:124:LEU:CD1	2.45	0.46
4:D:131:ARG:O	4:D:134:GLN:HB2	2.13	0.46
5:E:136:ILE:HD12	5:E:136:ILE:O	2.14	0.46
6:F:123:LEU:CD2	6:F:137:SER:CA	2.68	0.46
7:G:51:ASP:OD1	7:G:55:ILE:CD1	2.63	0.46
8:H:108:HIS:O	8:H:109:ARG:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:18:TRP:C	10:J:20:THR:N	2.68	0.46
1:M:268:LEU:HD22	1:M:329:LYS:HB2	1.97	0.46
1:M:338:LYS:HG3	1:M:343:ARG:HE	1.74	0.46
1:M:573:LYS:CE	8:T:74:TYR:CE1	2.98	0.46
1:M:781:ILE:HD12	1:M:782:PRO:CD	2.45	0.46
1:M:811:LEU:C	2:N:750:HIS:NE2	2.69	0.46
2:N:233:SER:O	2:N:234:ARG:C	2.54	0.46
2:N:255:ILE:HG23	2:N:303:CYS:SG	2.55	0.46
2:N:651:ASP:OD2	2:N:662:ARG:CB	2.63	0.46
2:N:660:GLU:C	2:N:661:GLN:HG2	2.34	0.46
3:O:216:GLU:HA	3:O:216:GLU:OE1	2.15	0.46
6:R:61:GLY:O	6:R:62:LYS:HG3	2.13	0.46
7:S:19:PHE:O	7:S:20:GLY:C	2.54	0.46
7:S:155:ALA:C	7:S:157:GLU:N	2.67	0.46
8:T:63:LEU:HD22	8:T:64:ASN:N	2.29	0.46
8:T:83:VAL:O	8:T:83:VAL:HG12	2.14	0.46
1:A:6:PHE:CE2	1:A:78:ASP:CG	2.89	0.46
1:A:154:LEU:N	1:A:173:GLY:O	2.48	0.46
1:A:358:VAL:HA	1:A:491:ASP:O	2.15	0.46
1:A:498:PRO:C	1:A:499:GLN:HE21	2.19	0.46
1:A:946:CYS:HB2	1:A:949:ILE:HG12	1.97	0.46
1:A:1135:LYS:O	1:A:1139:THR:HG22	2.15	0.46
1:A:1254:GLU:O	1:A:1256:ASP:N	2.48	0.46
1:A:1459:TYR:HD1	1:A:1460:SER:H	1.61	0.46
2:B:317:LEU:HB2	2:B:335:LEU:CD2	2.45	0.46
2:B:733:HIS:HD2	2:B:735:ALA:HB3	1.81	0.46
2:B:1088:VAL:C	2:B:1090:ASP:H	2.19	0.46
5:E:67:SER:C	5:E:69:LYS:H	2.18	0.46
5:E:101:THR:CG2	5:E:126:THR:H	2.19	0.46
7:G:90:ALA:O	7:G:143:ASN:CA	2.63	0.46
7:G:115:LEU:HD13	7:G:163:THR:CG2	2.37	0.46
8:H:108:HIS:HD2	8:H:111:LEU:CD1	2.23	0.46
1:M:6:PHE:CE2	1:M:78:ASP:CG	2.89	0.46
1:M:83:PHE:CZ	2:N:1193:GLN:O	2.64	0.46
1:M:242:ILE:CD1	1:M:245:LEU:HD13	2.44	0.46
1:M:518:VAL:O	1:M:518:VAL:HG12	2.14	0.46
1:M:855:MET:HG3	1:M:1065:GLU:H	1.79	0.46
1:M:880:ASP:O	1:M:881:ALA:C	2.53	0.46
1:M:946:CYS:HB2	1:M:949:ILE:HG12	1.97	0.46
1:M:1288:VAL:CG1	1:M:1312:LEU:HB3	2.45	0.46
1:M:1323:MET:HA	1:M:1328:VAL:HG21	1.95	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1390:ILE:HD11	1:M:1395:ILE:HG22	1.97	0.46
1:M:1442:MET:HE3	1:M:1442:MET:CA	2.33	0.46
2:N:215:ALA:O	2:N:217:SER:N	2.48	0.46
2:N:216:PRO:CG	2:N:217:SER:HA	2.45	0.46
2:N:456:LYS:HD3	2:N:456:LYS:HA	1.46	0.46
2:N:480:HIS:C	2:N:482:ARG:H	2.19	0.46
2:N:747:PHE:CE1	2:N:1033:ALA:HA	2.50	0.46
2:N:749:ASP:OD2	2:N:1036:PHE:CE2	2.68	0.46
2:N:789:GLN:HB3	10:V:51:THR:O	2.15	0.46
4:P:15:LEU:O	4:P:20:GLU:OE2	2.33	0.46
4:P:98:CYS:CA	4:P:99:GLU:CB	2.93	0.46
9:U:53:VAL:HG12	9:U:56:THR:CG2	2.45	0.46
10:V:2:ILE:N	10:V:56:ILE:HD11	2.12	0.46
11:W:29:ALA:CB	11:W:75:GLN:HA	2.45	0.46
1:A:24:LEU:H	2:B:1200:ILE:HA	1.80	0.46
1:A:518:VAL:HG22	1:A:525:PRO:HA	1.97	0.46
1:A:573:LYS:NZ	8:H:74:TYR:CZ	2.83	0.46
1:A:879:LEU:HD13	1:A:960:PRO:CG	2.44	0.46
1:A:1142:GLU:C	1:A:1281:GLY:HA2	2.31	0.46
1:A:1157:TYR:CD1	9:I:18:GLU:OE2	2.68	0.46
2:B:225:ILE:CD1	2:B:367:MET:SD	3.03	0.46
2:B:234:ARG:NH2	2:B:408:ARG:NH2	2.63	0.46
2:B:281:ARG:HD2	9:I:6:TYR:CG	2.49	0.46
2:B:741:LEU:HD13	2:B:764:LYS:HG2	1.97	0.46
2:B:749:ASP:OD2	2:B:1036:PHE:CE2	2.68	0.46
2:B:966:GLY:O	2:B:1088:VAL:HG22	2.16	0.46
5:E:199:THR:N	5:E:200:SER:C	2.48	0.46
6:F:79:GLU:O	6:F:82:ARG:N	2.47	0.46
9:I:5:GLN:C	9:I:14:LEU:CD1	2.80	0.46
10:J:4:PRO:HG2	10:J:48:MET:HE1	1.97	0.46
11:K:20:TYR:CZ	11:K:83:LYS:HB3	2.50	0.46
1:M:9:SER:O	1:M:10:SER:O	2.33	0.46
1:M:254:PRO:CG	1:M:266:ASP:OD1	2.63	0.46
1:M:272:LEU:HD21	1:M:309:TYR:CZ	2.50	0.46
1:M:322:GLN:CD	1:M:328:LEU:HD23	2.35	0.46
1:M:332:ARG:HG2	1:M:332:ARG:HH11	1.79	0.46
1:M:340:GLY:O	1:M:341:ARG:O	2.33	0.46
1:M:375:SER:H	11:W:2:ASN:HD21	1.62	0.46
1:M:375:SER:H	11:W:2:ASN:ND2	2.14	0.46
1:M:558:TRP:CD1	1:M:657:ARG:HD3	2.50	0.46
1:M:1492:VAL:HG13	1:M:1496:PHE:CE2	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1492:VAL:HG13	4:P:75:TYR:OH	2.15	0.46
2:N:227:SER:O	2:N:228:ALA:HB2	2.15	0.46
2:N:394:LEU:CD1	2:N:531:VAL:HG11	2.46	0.46
2:N:733:HIS:HD2	2:N:735:ALA:HB3	1.81	0.46
3:O:6:HIS:HA	3:O:22:THR:HB	1.97	0.46
3:O:40:ILE:HD12	3:O:173:PRO:HD2	1.98	0.46
3:O:108:LYS:CA	3:O:153:GLU:HG2	2.46	0.46
7:S:138:ILE:HG13	7:S:171:VAL:CG2	2.45	0.46
8:T:107:SER:O	8:T:108:HIS:C	2.54	0.46
8:T:110:LYS:HD2	8:T:113:ARG:NH2	2.29	0.46
9:U:29:CYS:SG	9:U:30:ARG:N	2.88	0.46
12:X:31:ASN:ND2	12:X:41:CYS:HA	2.30	0.46
1:A:214:HIS:HB2	1:A:241:ILE:CD1	2.35	0.46
1:A:272:LEU:HD21	1:A:309:TYR:CZ	2.50	0.46
1:A:380:LEU:O	1:A:381:THR:CB	2.61	0.46
1:A:404:GLU:O	1:A:406:PRO:N	2.48	0.46
1:A:573:LYS:CE	8:H:74:TYR:CE1	2.99	0.46
1:A:970:ALA:C	1:A:972:GLN:H	2.19	0.46
1:A:1075:ILE:C	1:A:1078:PRO:CG	2.83	0.46
2:B:287:ILE:HG12	2:B:368:ILE:CG1	2.44	0.46
2:B:325:SER:O	2:B:326:THR:HG23	2.15	0.46
2:B:562:ASN:OD1	2:B:562:ASN:C	2.54	0.46
2:B:685:VAL:CG1	2:B:729:HIS:CE1	2.99	0.46
2:B:1048:LEU:C	2:B:1050:SER:N	2.69	0.46
2:B:1085:LYS:HB2	2:B:1085:LYS:NZ	2.31	0.46
2:B:1145:ASP:O	2:B:1146:ALA:C	2.52	0.46
3:C:107:ALA:O	3:C:153:GLU:HA	2.16	0.46
4:D:99:GLU:CG	4:D:124:LEU:CD1	2.90	0.46
5:E:69:LYS:HA	5:E:70:GLY:HA2	1.75	0.46
1:M:55:LEU:C	1:M:55:LEU:CD1	2.80	0.46
1:M:62:THR:HG1	1:M:69:CYS:HB3	1.81	0.46
1:M:146:THR:O	1:M:148:MET:CE	2.64	0.46
1:M:869:ILE:CD1	1:M:872:PHE:CE2	2.91	0.46
1:M:1075:ILE:C	1:M:1078:PRO:CG	2.83	0.46
1:M:1450:TYR:C	1:M:1451:LEU:CG	2.83	0.46
2:N:115:LEU:HD21	2:N:155:ILE:HD12	1.97	0.46
2:N:215:ALA:C	2:N:217:SER:CA	2.83	0.46
2:N:223:ALA:HB2	2:N:371:MET:SD	2.56	0.46
2:N:311:GLN:O	2:N:311:GLN:CG	2.64	0.46
2:N:733:HIS:HD2	2:N:735:ALA:H	1.64	0.46
2:N:831:ASN:HD21	2:N:833:ALA:CB	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:919:GLN:HA	2:N:920:LEU:HA	1.59	0.46
2:N:1088:VAL:C	2:N:1090:ASP:H	2.19	0.46
2:N:1208:ASN:O	2:N:1210:LYS:N	2.49	0.46
4:P:15:LEU:O	4:P:16:GLY:C	2.52	0.46
5:Q:120:THR:HG23	5:Q:121:VAL:N	2.30	0.46
9:U:7:CYS:CB	9:U:34:TYR:CD2	2.96	0.46
12:X:59:GLN:OE1	12:X:59:GLN:HA	2.14	0.46
1:A:7:SER:N	1:A:8:PRO:CD	2.79	0.46
1:A:55:LEU:C	1:A:55:LEU:CD1	2.81	0.46
1:A:431:PRO:O	1:A:432:LEU:HG	2.16	0.46
1:A:651:PHE:O	1:A:655:ILE:HG13	2.16	0.46
1:A:758:LYS:HA	1:A:758:LYS:HE3	1.97	0.46
1:A:855:MET:HG2	1:A:856:VAL:N	2.30	0.46
1:A:1152:ALA:HB1	9:I:47:GLU:H	1.80	0.46
1:A:1160:ASP:C	1:A:1162:GLN:H	2.18	0.46
1:A:1163:ASP:O	1:A:1164:THR:HG22	2.15	0.46
2:B:227:SER:O	2:B:228:ALA:HB2	2.15	0.46
2:B:296:MET:CE	2:B:372:LEU:O	2.64	0.46
2:B:747:PHE:CE1	2:B:1033:ALA:HA	2.50	0.46
2:B:759:GLN:CG	2:B:972:ARG:HA	2.44	0.46
2:B:890:PRO:HA	2:B:891:GLY:HA2	1.54	0.46
2:B:1001:ILE:HD12	2:B:1001:ILE:C	2.36	0.46
2:B:1095:ARG:HH11	2:B:1098:GLY:H	1.62	0.46
5:E:101:THR:CG2	5:E:126:THR:HG23	2.35	0.46
7:G:80:TRP:CZ3	7:G:107:LEU:CD2	2.98	0.46
9:I:29:CYS:SG	9:I:30:ARG:N	2.88	0.46
9:I:53:VAL:HG12	9:I:56:THR:CG2	2.45	0.46
11:K:60:TYR:O	11:K:61:LYS:HB2	2.16	0.46
1:M:63:ILE:O	1:M:63:ILE:HG12	2.14	0.46
1:M:312:ASN:OD1	1:M:328:LEU:O	2.32	0.46
1:M:516:GLN:HE22	2:N:1130:HIS:HD2	1.60	0.46
1:M:518:VAL:HG22	1:M:525:PRO:HA	1.97	0.46
1:M:970:ALA:C	1:M:972:GLN:H	2.19	0.46
1:M:1254:GLU:O	1:M:1256:ASP:N	2.48	0.46
2:N:281:ARG:HD2	9:U:6:TYR:CG	2.50	0.46
2:N:593:LEU:HD12	2:N:670:SER:HB2	1.98	0.46
2:N:1162:SER:O	2:N:1164:LYS:HG3	2.14	0.46
9:U:86:TYR:CD1	9:U:87:GLN:O	2.68	0.46
1:A:110:TRP:HZ2	1:A:180:PRO:CG	2.29	0.46
1:A:682:MET:HA	1:A:685:VAL:HG23	1.96	0.46
1:A:728:LEU:CD2	1:A:805:PHE:CE1	2.94	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:785:PHE:CE2	1:A:791:PRO:HG3	2.51	0.46
1:A:822:HIS:CD2	2:B:753:SER:CB	2.99	0.46
1:A:855:MET:HG3	1:A:1065:GLU:H	1.79	0.46
1:A:884:VAL:HG13	1:A:959:LEU:O	2.15	0.46
1:A:1065:GLU:O	1:A:1066:MET:CB	2.56	0.46
1:A:1152:ALA:HB1	9:I:46:HIS:HB3	1.98	0.46
1:A:1444:THR:HG22	2:B:1133:SER:N	2.21	0.46
1:A:1464:ALA:O	1:A:1465:VAL:CB	2.61	0.46
1:A:1476:SER:O	1:A:1478:LEU:O	2.32	0.46
2:B:326:THR:O	2:B:326:THR:OG1	2.30	0.46
2:B:480:HIS:C	2:B:482:ARG:H	2.19	0.46
2:B:547:TRP:HA	2:B:548:GLY:HA3	1.77	0.46
2:B:747:PHE:N	2:B:747:PHE:HD1	2.13	0.46
2:B:907:ILE:HG12	2:B:924:ARG:HE	1.80	0.46
3:C:216:GLU:OE1	3:C:216:GLU:HA	2.16	0.46
4:D:84:ARG:HH21	4:D:87:LYS:HE3	1.79	0.46
9:I:25:LEU:CD1	9:I:38:ALA:CB	2.93	0.46
1:M:24:LEU:N	2:N:1199:ASN:O	2.49	0.46
1:M:95:ILE:CB	1:M:314:ILE:HD13	2.44	0.46
1:M:594:LEU:O	1:M:612:LEU:HD12	2.15	0.46
1:M:732:ARG:CG	1:M:733:ASP:N	2.79	0.46
1:M:884:VAL:HG13	1:M:959:LEU:O	2.15	0.46
1:M:1062:SER:CB	1:M:1063:PRO:CA	2.93	0.46
1:M:1131:MET:HG3	1:M:1132:ASP:N	2.31	0.46
1:M:1137:VAL:HA	1:M:1140:GLN:HB2	1.97	0.46
1:M:1195:LEU:CD2	1:M:1242:ARG:NE	2.64	0.46
2:N:928:THR:HA	2:N:929:PRO:HD3	1.76	0.46
4:P:9:ASP:OD1	4:P:9:ASP:N	2.48	0.46
6:R:99:VAL:CG1	6:R:100:ASP:N	2.78	0.46
7:S:88:VAL:HG12	7:S:89:ASP:N	2.30	0.46
1:A:266:ASP:CB	1:A:267:ASP:CB	2.54	0.46
1:A:382:TYR:CZ	1:A:446:ASP:OD1	2.68	0.46
1:A:388:PRO:CA	1:A:434:TYR:HE2	2.29	0.46
1:A:548:THR:CG2	1:A:550:ASN:HB2	2.46	0.46
1:A:591:GLY:O	1:A:969:ASN:OD1	2.34	0.46
1:A:605:ASN:N	1:A:606:PRO:CA	2.77	0.46
1:A:809:SER:O	1:A:813:GLY:HA3	2.16	0.46
1:A:855:MET:HB2	1:A:855:MET:HE2	1.76	0.46
1:A:1444:THR:CG2	2:B:1133:SER:OG	2.64	0.46
2:B:222:VAL:HG12	2:B:223:ALA:H	1.80	0.46
2:B:601:ILE:C	2:B:601:ILE:HD12	2.36	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:831:ASN:HD21	2:B:833:ALA:N	2.14	0.46
3:C:105:LEU:HD13	3:C:156:LEU:HD12	1.97	0.46
4:D:15:LEU:O	4:D:20:GLU:OE2	2.33	0.46
4:D:97:CYS:CB	4:D:131:ARG:HH22	2.28	0.46
4:D:98:CYS:CA	4:D:99:GLU:CB	2.93	0.46
5:E:160:LEU:HD23	5:E:160:LEU:N	2.31	0.46
8:H:7:LEU:HD21	8:H:110:LYS:HZ3	1.81	0.46
1:M:51:ARG:NH1	1:M:57:ASP:OD1	2.32	0.46
1:M:181:THR:O	1:M:191:GLY:CA	2.64	0.46
1:M:195:ARG:H	1:M:196:GLY:HA3	1.81	0.46
1:M:236:ARG:CA	1:M:239:TRP:HE3	2.24	0.46
1:M:348:GLY:O	2:N:1118:ARG:NH1	2.48	0.46
1:M:602:SER:OG	1:M:606:PRO:HG3	2.16	0.46
1:M:763:ASN:ND2	2:N:1008:SER:HA	2.31	0.46
1:M:781:ILE:CG2	1:M:803:ARG:HA	2.34	0.46
1:M:874:TYR:HB2	1:M:878:GLY:CA	2.43	0.46
1:M:1066:MET:HE1	1:M:1442:MET:HA	1.98	0.46
1:M:1082:MET:CG	1:M:1362:ILE:HA	2.41	0.46
1:M:1260:ILE:HA	1:M:1261:GLU:HB3	1.98	0.46
2:N:155:ILE:HA	2:N:156:PRO:HD3	1.79	0.46
2:N:874:MET:HG3	2:N:879:TYR:OH	2.16	0.46
2:N:938:VAL:O	2:N:938:VAL:HG12	2.15	0.46
3:O:87:THR:HG21	3:O:161:LYS:CG	2.46	0.46
3:O:105:LEU:HD13	3:O:156:LEU:HD12	1.97	0.46
3:O:251:ILE:C	3:O:251:ILE:HD12	2.36	0.46
4:P:57:LYS:HB3	4:P:61:TYR:HE2	1.81	0.46
7:S:3:PHE:CD1	7:S:80:TRP:CD1	2.99	0.46
7:S:150:GLY:O	7:S:160:ALA:CA	2.64	0.46
10:V:48:MET:CE	10:V:48:MET:HA	2.44	0.46
10:V:51:THR:O	10:V:51:THR:HG23	2.16	0.46
11:W:60:TYR:O	11:W:61:LYS:HB2	2.16	0.46
1:A:10:SER:O	1:A:12:PRO:N	2.49	0.46
1:A:116:LYS:HB2	1:A:147:LYS:HD2	1.97	0.46
1:A:747:ASN:C	1:A:748:ASN:O	2.54	0.46
1:A:816:PRO:HD3	2:B:1036:PHE:HD2	1.79	0.46
1:A:907:LEU:HD23	1:A:907:LEU:H	1.79	0.46
1:A:1101:VAL:C	1:A:1103:ARG:N	2.69	0.46
1:A:1194:TRP:HZ2	1:A:1262:GLU:HG3	1.75	0.46
2:B:32:ARG:CA	2:B:35:LEU:HD12	2.46	0.46
2:B:688:ALA:CB	2:B:694:LEU:HD21	2.46	0.46
2:B:1138:GLU:HG2	2:B:1143:CYS:HG	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:40:ILE:HD12	3:C:173:PRO:HD2	1.98	0.46
3:C:87:THR:HG21	3:C:161:LYS:CG	2.46	0.46
3:C:218:GLU:HB3	3:C:219:PRO:C	2.36	0.46
4:D:57:LYS:HB3	4:D:61:TYR:CE2	2.51	0.46
4:D:99:GLU:HG2	4:D:124:LEU:CG	2.46	0.46
11:K:29:ALA:CB	11:K:75:GLN:HA	2.45	0.46
1:M:7:SER:N	1:M:8:PRO:CD	2.79	0.46
1:M:11:VAL:O	1:M:11:VAL:HG23	2.16	0.46
1:M:90:LYS:HE2	1:M:90:LYS:HB3	1.60	0.46
1:M:98:LEU:HD23	1:M:101:ILE:HG21	1.98	0.46
1:M:199:GLU:C	1:M:200:SER:OG	2.54	0.46
1:M:358:VAL:HA	1:M:491:ASP:O	2.15	0.46
1:M:459:MET:HE1	1:M:519:SER:CB	2.45	0.46
1:M:806:ILE:HG22	1:M:808:ASN:O	2.16	0.46
1:M:1104:LEU:CD1	1:M:1108:LEU:CD1	2.88	0.46
2:N:1045:SER:O	2:N:1048:LEU:HB2	2.15	0.46
3:O:164:ILE:O	3:O:165:ALA:C	2.54	0.46
5:Q:128:GLU:HB3	5:Q:129:THR:HB	1.97	0.46
9:U:20:LYS:CE	9:U:21:VAL:HG23	2.44	0.46
11:W:25:LYS:HA	11:W:26:SER:HA	1.61	0.46
1:A:5:GLN:O	1:A:8:PRO:HG3	2.16	0.46
1:A:87:GLU:O	1:A:88:LEU:HG	2.15	0.46
1:A:179:GLN:HB2	1:A:180:PRO:HD3	1.97	0.46
1:A:676:ILE:O	1:A:676:ILE:HG13	2.16	0.46
1:A:880:ASP:O	1:A:881:ALA:C	2.53	0.46
1:A:1264:VAL:O	1:A:1266:LEU:N	2.49	0.46
2:B:115:LEU:HD21	2:B:155:ILE:HD12	1.97	0.46
2:B:556:ASN:H	2:B:557:PRO:CD	2.29	0.46
2:B:686:MET:C	2:B:728:THR:HG22	2.35	0.46
2:B:699:GLN:HB3	2:B:704:TYR:CB	2.46	0.46
5:E:128:GLU:HB3	5:E:129:THR:HB	1.97	0.46
8:H:107:SER:O	8:H:108:HIS:C	2.54	0.46
1:M:131:ARG:O	1:M:136:ARG:NE	2.49	0.46
1:M:498:PRO:C	1:M:499:GLN:HE21	2.19	0.46
1:M:512:MET:C	1:M:514:PRO:N	2.68	0.46
2:N:250:ASN:OD1	2:N:251:SER:HB3	2.16	0.46
2:N:669:VAL:HG22	2:N:674:ILE:CD1	2.29	0.46
2:N:685:VAL:CG1	2:N:729:HIS:CE1	2.99	0.46
2:N:1048:LEU:C	2:N:1050:SER:N	2.69	0.46
4:P:57:LYS:HB3	4:P:61:TYR:CE2	2.51	0.46
1:A:9:SER:O	1:A:10:SER:O	2.34	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:59:ARG:H	1:A:60:LEU:HD23	1.79	0.46
1:A:69:CYS:O	1:A:70:GLN:C	2.55	0.46
1:A:115:LEU:CD1	1:A:115:LEU:N	2.76	0.46
1:A:244:VAL:CG1	1:A:244:VAL:O	2.56	0.46
1:A:340:GLY:O	1:A:341:ARG:O	2.34	0.46
1:A:594:LEU:HD23	1:A:594:LEU:HA	1.75	0.46
1:A:761:PHE:O	1:A:764:ILE:HG13	2.15	0.46
1:A:775:ILE:O	1:A:775:ILE:CD1	2.63	0.46
1:A:836:LYS:CG	1:A:840:THR:CG2	2.84	0.46
1:A:1062:SER:CB	1:A:1063:PRO:CA	2.93	0.46
1:A:1295:ILE:HG23	1:A:1295:ILE:O	2.15	0.46
1:A:1496:PHE:CD2	4:D:33:LEU:CD1	2.92	0.46
2:B:215:ALA:O	2:B:217:SER:N	2.48	0.46
2:B:311:GLN:O	2:B:311:GLN:CG	2.64	0.46
2:B:789:GLN:HB3	10:J:51:THR:O	2.16	0.46
2:B:1027:SER:OG	2:B:1028:GLY:N	2.49	0.46
2:B:1056:ARG:HD3	2:B:1056:ARG:N	2.30	0.46
7:G:46:ILE:HA	7:G:79:LEU:HD22	1.79	0.46
7:G:101:PHE:HE1	7:G:110:PHE:CD1	2.31	0.46
8:H:37:ASN:O	8:H:37:ASN:OD1	2.34	0.46
9:I:86:TYR:CD1	9:I:87:GLN:O	2.68	0.46
1:M:10:SER:O	1:M:12:PRO:N	2.49	0.46
1:M:15:ARG:NH1	1:M:1438:GLN:HE21	2.05	0.46
1:M:244:VAL:CG1	1:M:244:VAL:O	2.56	0.46
1:M:377:ALA:HA	1:M:442:ILE:HD11	1.98	0.46
1:M:584:LEU:C	1:M:586:LEU:H	2.20	0.46
1:M:640:TRP:N	1:M:641:LYS:C	2.68	0.46
1:M:1119:LEU:HD12	1:M:1119:LEU:C	2.36	0.46
1:M:1166:ILE:HD13	1:M:1171:ASP:CG	2.36	0.46
1:M:1388:MET:CE	1:M:1395:ILE:HD13	2.46	0.46
2:N:216:PRO:N	2:N:217:SER:HA	2.30	0.46
2:N:247:ASN:O	2:N:249:GLU:N	2.49	0.46
2:N:759:GLN:HG2	2:N:972:ARG:HA	1.98	0.46
2:N:865:ARG:HG3	2:N:865:ARG:O	2.16	0.46
2:N:930:LEU:HD23	2:N:931:ARG:N	2.31	0.46
2:N:1027:SER:OG	2:N:1028:GLY:N	2.49	0.46
3:O:14:LYS:O	3:O:241:PRO:HG3	2.16	0.46
3:O:95:TYR:CE2	3:O:161:LYS:HE2	2.51	0.46
3:O:257:ALA:HB1	3:O:261:ARG:CZ	2.46	0.46
5:Q:75:GLU:H	5:Q:103:ILE:CD1	2.29	0.46
5:Q:116:LYS:O	5:Q:118:ILE:N	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:65:ALA:C	6:R:67:GLU:N	2.69	0.46
7:S:15:HIS:CG	7:S:16:PRO:HD2	2.51	0.46
9:U:12:ASN:ND2	9:U:29:CYS:SG	2.85	0.46
9:U:76:PRO:HG2	9:U:110:PHE:HB2	1.96	0.46
1:A:21:PHE:HZ	1:A:1403:LEU:CD1	2.27	0.45
1:A:41:GLU:O	1:A:41:GLU:CG	2.52	0.45
1:A:87:GLU:OE1	1:A:88:LEU:N	2.50	0.45
1:A:254:PRO:CG	1:A:266:ASP:OD1	2.64	0.45
1:A:312:ASN:ND2	1:A:330:SER:H	2.11	0.45
1:A:484:TYR:CD2	1:A:493:MET:HE3	2.51	0.45
1:A:856:VAL:HG23	1:A:1065:GLU:HB3	1.98	0.45
1:A:857:ARG:HG3	1:A:863:ARG:HD2	1.98	0.45
1:A:1136:ASN:O	1:A:1140:GLN:HB2	2.16	0.45
1:A:1166:ILE:CD1	1:A:1169:ASP:O	2.63	0.45
1:A:1455:MET:O	1:A:1459:TYR:HB2	2.16	0.45
2:B:379:ARG:NH1	2:B:607:GLU:HG2	2.30	0.45
2:B:428:PHE:C	2:B:429:ASN:CG	2.75	0.45
2:B:508:VAL:O	2:B:508:VAL:HG12	2.15	0.45
2:B:1045:SER:O	2:B:1048:LEU:HB2	2.16	0.45
2:B:1208:ASN:O	2:B:1210:LYS:N	2.49	0.45
3:C:108:LYS:CA	3:C:153:GLU:HG2	2.46	0.45
4:D:84:ARG:C	4:D:90:ARG:HD2	2.37	0.45
6:F:99:VAL:CG1	6:F:100:ASP:N	2.78	0.45
1:M:171:GLY:O	1:M:172:HIS:C	2.54	0.45
1:M:312:ASN:ND2	1:M:330:SER:H	2.11	0.45
1:M:506:GLU:OE2	1:M:1444:THR:HG23	2.16	0.45
1:M:548:THR:CG2	1:M:550:ASN:HB2	2.46	0.45
1:M:740:GLU:HG2	1:M:764:ILE:HD12	1.97	0.45
1:M:820:PHE:O	1:M:821:PHE:C	2.54	0.45
1:M:1191:GLN:OE1	1:M:1246:ILE:HA	2.17	0.45
1:M:1264:VAL:O	1:M:1266:LEU:N	2.49	0.45
1:M:1282:VAL:CG1	1:M:1285:ILE:CG1	2.93	0.45
1:M:1295:ILE:HG23	1:M:1295:ILE:O	2.15	0.45
1:M:1430:ILE:CG2	1:M:1442:MET:HE1	2.47	0.45
2:N:262:ILE:HA	2:N:263:ARG:HA	1.61	0.45
2:N:267:PRO:CB	2:N:306:GLU:OE1	2.44	0.45
2:N:562:ASN:C	2:N:562:ASN:OD1	2.54	0.45
2:N:601:ILE:HD12	2:N:601:ILE:C	2.36	0.45
2:N:688:ALA:CB	2:N:694:LEU:HD21	2.46	0.45
2:N:794:THR:O	2:N:1032:ASP:HA	2.15	0.45
2:N:829:ILE:O	2:N:829:ILE:CG1	2.64	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:856:GLY:CA	2:N:857:MET:C	2.85	0.45
2:N:1017:GLU:OE2	2:N:1080:TYR:HE2	1.98	0.45
2:N:1205:PHE:CE2	2:N:1210:LYS:C	2.89	0.45
3:O:70:PRO:C	3:O:71:LEU:HD12	2.37	0.45
3:O:240:PRO:HB2	3:O:243:GLU:HG2	1.98	0.45
6:R:99:VAL:HG22	6:R:119:LYS:HD2	1.98	0.45
7:S:90:ALA:O	7:S:143:ASN:CA	2.63	0.45
7:S:144:VAL:HG11	7:S:164:MET:CE	2.46	0.45
8:T:37:ASN:O	8:T:37:ASN:OD1	2.34	0.45
11:W:13:MET:O	11:W:15:LEU:HG	2.17	0.45
1:A:26:PRO:HD2	1:A:239:TRP:HE1	1.78	0.45
1:A:117:ILE:HG23	1:A:118:ASP:H	1.81	0.45
1:A:162:ASP:HA	1:A:165:ASN:N	2.31	0.45
1:A:163:LEU:N	1:A:165:ASN:H	2.15	0.45
1:A:392:TYR:HE1	6:R:101:LEU:HD13	1.81	0.45
1:A:510:ILE:HG13	1:A:511:THR:H	1.81	0.45
1:A:763:ASN:ND2	2:B:1008:SER:HA	2.31	0.45
1:A:839:GLU:CA	1:A:842:TYR:HD2	2.29	0.45
1:A:1119:LEU:CA	1:A:1314:THR:CG2	2.92	0.45
1:A:1124:MET:HB2	1:A:1126:TRP:C	2.36	0.45
1:A:1152:ALA:CB	9:I:47:GLU:H	2.29	0.45
1:A:1397:ARG:HG2	1:A:1398:ALA:N	2.28	0.45
2:B:203:SER:HB2	2:B:226:ARG:HE	1.80	0.45
2:B:319:TYR:O	2:B:319:TYR:CG	2.65	0.45
2:B:485:ASN:C	2:B:486:THR:HG22	2.37	0.45
2:B:778:MET:HG3	2:B:954:LYS:HD3	1.98	0.45
2:B:942:MET:HB2	12:L:50:TYR:CD2	2.51	0.45
4:D:129:THR:O	4:D:133:PHE:CG	2.70	0.45
5:E:142:HIS:HB3	5:E:145:VAL:HG23	1.97	0.45
7:G:115:LEU:CG	7:G:163:THR:HG22	2.47	0.45
7:G:144:VAL:HG11	7:G:164:MET:CE	2.46	0.45
8:H:83:VAL:HG12	8:H:83:VAL:O	2.14	0.45
8:H:104:ILE:CD1	8:H:110:LYS:HE3	2.47	0.45
8:H:110:LYS:HD2	8:H:113:ARG:NH2	2.29	0.45
9:I:5:GLN:O	9:I:14:LEU:CD1	2.64	0.45
1:M:5:GLN:O	1:M:8:PRO:HG3	2.15	0.45
1:M:23:ILE:HD12	1:M:235:ALA:CB	2.46	0.45
1:M:86:ILE:O	1:M:87:GLU:O	2.35	0.45
1:M:162:ASP:HA	1:M:165:ASN:N	2.31	0.45
1:M:193:TRP:CZ3	1:M:206:ARG:HB3	2.44	0.45
1:M:355:ALA:HB2	2:N:1094:ALA:HA	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:651:PHE:O	1:M:655:ILE:HG13	2.15	0.45
1:M:676:ILE:HG13	1:M:676:ILE:O	2.15	0.45
1:M:856:VAL:HG23	1:M:1065:GLU:HB3	1.98	0.45
1:M:879:LEU:HD13	1:M:960:PRO:CG	2.44	0.45
2:N:364:LEU:HD23	2:N:367:MET:HE2	1.98	0.45
2:N:386:HIS:CD2	2:N:388:GLY:CA	2.88	0.45
2:N:423:GLU:O	2:N:424:THR:HG23	2.16	0.45
2:N:488:ILE:CG2	2:N:490:ARG:H	2.27	0.45
2:N:502:ASN:OD1	2:N:502:ASN:N	2.44	0.45
2:N:823:ASN:O	2:N:823:ASN:CG	2.54	0.45
5:Q:69:LYS:HA	5:Q:70:GLY:HA2	1.75	0.45
6:R:83:ILE:O	6:R:86:THR:N	2.50	0.45
6:R:123:LEU:CD2	6:R:137:SER:CA	2.68	0.45
7:S:115:LEU:HD13	7:S:163:THR:CG2	2.37	0.45
10:V:18:TRP:C	10:V:20:THR:N	2.68	0.45
1:A:11:VAL:O	1:A:11:VAL:HG23	2.16	0.45
1:A:254:PRO:CG	1:A:266:ASP:CG	2.73	0.45
1:A:347:MET:HE1	1:A:1407:SER:HA	1.97	0.45
1:A:374:ARG:CB	1:A:374:ARG:NH1	2.62	0.45
1:A:448:VAL:HG23	1:A:497:VAL:HA	1.98	0.45
1:A:838:ALA:HB1	1:A:842:TYR:HE2	1.81	0.45
1:A:997:ILE:HA	1:A:1000:LEU:HG	1.99	0.45
1:A:1087:PHE:O	1:A:1090:ALA:CB	2.64	0.45
1:A:1135:LYS:HA	1:A:1138:GLN:CG	2.47	0.45
1:A:1218:LYS:HD2	1:A:1278:SER:CB	2.46	0.45
1:A:1282:VAL:CG1	1:A:1282:VAL:O	2.51	0.45
1:A:1409:GLU:CB	1:A:1410:GLU:HA	2.45	0.45
2:B:310:ILE:O	2:B:315:ILE:CD1	2.64	0.45
2:B:386:HIS:CD2	2:B:388:GLY:CA	2.88	0.45
2:B:585:THR:O	2:B:589:LEU:HG	2.16	0.45
2:B:794:THR:O	2:B:1032:ASP:HA	2.15	0.45
2:B:839:LEU:O	2:B:840:PHE:C	2.55	0.45
2:B:1111:ARG:O	2:B:1112:SER:OG	2.34	0.45
2:B:1205:PHE:CE2	2:B:1210:LYS:C	2.89	0.45
3:C:240:PRO:HB2	3:C:243:GLU:HG2	1.98	0.45
4:D:85:PHE:CE2	4:D:115:ILE:HD11	2.51	0.45
6:F:83:ILE:O	6:F:86:THR:N	2.50	0.45
7:G:19:PHE:O	7:G:20:GLY:C	2.54	0.45
7:G:80:TRP:CH2	7:G:107:LEU:HD23	2.52	0.45
7:G:135:ASP:O	7:G:136:GLN:C	2.55	0.45
7:G:138:ILE:HG13	7:G:171:VAL:CG2	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:20:LYS:HZ2	9:I:21:VAL:HG21	1.82	0.45
9:I:98:THR:O	9:I:99:LEU:C	2.55	0.45
11:K:13:MET:O	11:K:15:LEU:HG	2.16	0.45
1:M:45:GLU:O	1:M:45:GLU:HG2	2.17	0.45
1:M:434:TYR:HD2	1:M:434:TYR:O	1.99	0.45
1:M:503:THR:C	1:M:505:ALA:H	2.18	0.45
1:M:783:PHE:O	1:M:784:GLY:O	2.34	0.45
1:M:857:ARG:HH11	1:M:857:ARG:HG2	1.78	0.45
1:M:907:LEU:HD23	1:M:907:LEU:H	1.79	0.45
1:M:1150:THR:CG2	9:U:48:LEU:CD2	2.90	0.45
1:M:1437:GLY:CA	2:N:1141:PHE:CG	2.99	0.45
2:N:315:ILE:O	2:N:318:ASP:N	2.50	0.45
2:N:496:LYS:HA	2:N:497:PRO:HA	1.65	0.45
2:N:585:THR:O	2:N:589:LEU:HG	2.16	0.45
2:N:608:LYS:N	2:N:608:LYS:HD2	2.32	0.45
2:N:658:ASP:CB	2:N:659:PRO:HD2	2.37	0.45
2:N:1001:ILE:HD12	2:N:1001:ILE:C	2.36	0.45
2:N:1085:LYS:HB2	2:N:1085:LYS:NZ	2.31	0.45
2:N:1138:GLU:HG2	2:N:1143:CYS:HG	1.81	0.45
3:O:40:ILE:CD1	3:O:173:PRO:HD2	2.47	0.45
3:O:107:ALA:O	3:O:153:GLU:HA	2.16	0.45
8:T:104:ILE:CD1	8:T:110:LYS:HE3	2.47	0.45
1:A:23:ILE:O	1:A:24:LEU:O	2.35	0.45
1:A:94:HIS:CD2	1:A:97:PHE:HD2	2.35	0.45
1:A:480:VAL:O	1:A:480:VAL:CG1	2.63	0.45
1:A:573:LYS:HG3	1:A:573:LYS:H	1.42	0.45
1:A:778:GLY:HA3	1:A:1092:VAL:N	2.31	0.45
1:A:1069:THR:O	1:A:1073:GLN:HG3	2.16	0.45
1:A:1247:ARG:O	1:A:1248:ASP:O	2.33	0.45
1:A:1345:LEU:HD23	1:A:1345:LEU:HA	1.87	0.45
1:A:1347:ILE:O	1:A:1347:ILE:HG12	2.17	0.45
1:A:1359:ARG:NH2	1:A:1371:TYR:CD1	2.76	0.45
2:B:315:ILE:O	2:B:318:ASP:N	2.49	0.45
2:B:651:ASP:HB3	2:B:662:ARG:HB3	1.99	0.45
2:B:755:ARG:HD2	2:B:755:ARG:N	2.30	0.45
2:B:831:ASN:HD21	2:B:833:ALA:CB	2.29	0.45
2:B:930:LEU:HD23	2:B:931:ARG:N	2.31	0.45
3:C:251:ILE:C	3:C:251:ILE:HD12	2.36	0.45
4:D:70:THR:HG1	4:D:73:ALA:HB2	1.76	0.45
5:E:118:ILE:C	5:E:120:THR:N	2.70	0.45
7:G:88:VAL:HG12	7:G:89:ASP:N	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:7:CYS:HB3	9:I:14:LEU:HD21	1.99	0.45
10:J:63:ASN:HA	10:J:64:PRO:HD3	1.71	0.45
11:K:9:LEU:HD21	11:K:68:HIS:CE1	2.51	0.45
11:K:16:PRO:O	11:K:17:LYS:C	2.55	0.45
11:K:76:THR:CA	11:K:77:VAL:CB	2.92	0.45
1:M:23:ILE:O	1:M:24:LEU:O	2.35	0.45
1:M:87:GLU:OE1	1:M:88:LEU:N	2.50	0.45
1:M:466:ILE:HB	1:M:467:ARG:H	1.55	0.45
1:M:747:ASN:C	1:M:748:ASN:O	2.54	0.45
1:M:775:ILE:O	1:M:775:ILE:CD1	2.63	0.45
1:M:785:PHE:CD1	1:M:785:PHE:N	2.60	0.45
1:M:809:SER:O	1:M:813:GLY:HA3	2.16	0.45
1:M:856:VAL:CG2	1:M:1067:VAL:HG23	2.45	0.45
2:N:32:ARG:CA	2:N:35:LEU:HD12	2.46	0.45
2:N:54:SER:CA	2:N:79:PHE:HD1	2.28	0.45
2:N:556:ASN:H	2:N:557:PRO:CD	2.29	0.45
2:N:741:LEU:HD22	2:N:760:SER:O	2.17	0.45
2:N:886:GLY:O	2:N:887:LEU:HD23	2.17	0.45
2:N:903:LYS:HD2	2:N:926:VAL:O	2.16	0.45
2:N:1148:ARG:HD2	2:N:1181:GLN:NE2	2.22	0.45
2:N:1170:CYS:SG	2:N:1179:PHE:CE1	3.08	0.45
3:O:193:TRP:CE3	3:O:194:PHE:N	2.83	0.45
5:Q:101:THR:CG2	5:Q:126:THR:HG23	2.35	0.45
5:Q:175:LEU:C	5:Q:177:ASP:H	2.19	0.45
6:R:113:LYS:HD3	6:R:113:LYS:HA	1.77	0.45
9:U:72:ASP:OD1	9:U:81:HIS:CE1	2.70	0.45
1:A:434:TYR:O	1:A:434:TYR:HD2	1.99	0.45
1:A:602:SER:OG	1:A:606:PRO:HG3	2.16	0.45
1:A:1066:MET:HE1	1:A:1442:MET:HG3	1.98	0.45
1:A:1112:LYS:O	1:A:1114:ILE:HD13	2.17	0.45
1:A:1124:MET:HB2	1:A:1126:TRP:O	2.17	0.45
1:A:1295:ILE:HG21	1:A:1309:GLU:CG	2.45	0.45
1:A:1478:LEU:HD22	4:D:45:THR:HB	1.95	0.45
2:B:41:PHE:HB3	2:B:42:VAL:HG23	1.98	0.45
2:B:206:ASN:OD1	2:B:227:SER:HB2	2.16	0.45
2:B:216:PRO:CG	2:B:217:SER:HA	2.45	0.45
2:B:534:GLY:CA	2:B:616:ALA:HB2	2.47	0.45
2:B:862:GLU:HG2	2:B:863:PHE:N	2.32	0.45
2:B:865:ARG:HG3	2:B:865:ARG:O	2.16	0.45
2:B:875:LYS:C	2:B:876:HIS:CD2	2.90	0.45
2:B:975:GLN:O	2:B:976:LYS:C	2.54	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1000:ILE:O	2:B:1000:ILE:CG1	2.65	0.45
6:F:61:GLY:O	6:F:62:LYS:HG3	2.13	0.45
1:M:170:MET:O	1:M:170:MET:CG	2.53	0.45
1:M:209:SER:OG	1:M:210:PRO:HD2	2.17	0.45
1:M:368:ASP:CG	1:M:649:LYS:NZ	2.69	0.45
1:M:404:GLU:O	1:M:406:PRO:N	2.48	0.45
1:M:659:VAL:O	1:M:660:ASN:C	2.55	0.45
1:M:876:GLU:CD	5:Q:195:ARG:HH22	2.20	0.45
1:M:1101:VAL:O	1:M:1102:PRO:C	2.54	0.45
1:M:1201:ASP:O	1:M:1205:MET:HG2	2.15	0.45
1:M:1449:ILE:HD12	1:M:1449:ILE:N	2.25	0.45
2:N:534:GLY:CA	2:N:616:ALA:HB2	2.47	0.45
2:N:741:LEU:HD13	2:N:764:LYS:HG2	1.97	0.45
2:N:938:VAL:HA	2:N:957:MET:HA	1.98	0.45
2:N:966:GLY:O	2:N:1088:VAL:HG22	2.16	0.45
2:N:1000:ILE:O	2:N:1000:ILE:CG1	2.65	0.45
11:W:9:LEU:HD23	11:W:9:LEU:O	2.16	0.45
11:W:39:HIS:CD2	11:W:39:HIS:O	2.70	0.45
1:A:16:VAL:CG2	2:B:1182:VAL:HG22	2.47	0.45
1:A:23:ILE:HD12	1:A:235:ALA:CB	2.46	0.45
1:A:116:LYS:NZ	1:A:228:LEU:HD21	2.31	0.45
1:A:311:ASP:HB2	1:A:314:ILE:HG13	1.85	0.45
1:A:760:SER:O	1:A:763:ASN:HB2	2.17	0.45
1:A:822:HIS:CD2	2:B:753:SER:HB2	2.48	0.45
1:A:967:ILE:O	1:A:970:ALA:HB3	2.17	0.45
1:A:1094:SER:O	1:A:1095:LYS:O	2.35	0.45
1:A:1134:ALA:O	1:A:1138:GLN:HG3	2.16	0.45
2:B:250:ASN:OD1	2:B:251:SER:HB3	2.16	0.45
2:B:423:GLU:O	2:B:424:THR:HG23	2.16	0.45
2:B:501:HIS:CD2	2:B:503:THR:OG1	2.69	0.45
2:B:608:LYS:HD2	2:B:608:LYS:N	2.32	0.45
2:B:1080:TYR:N	2:B:1080:TYR:CD2	2.60	0.45
4:D:85:PHE:C	4:D:86:HIS:CG	2.87	0.45
5:E:76:PHE:HD2	5:E:105:ILE:HG12	1.77	0.45
5:E:116:LYS:O	5:E:118:ILE:N	2.49	0.45
7:G:15:HIS:CG	7:G:16:PRO:HD2	2.51	0.45
7:G:111:VAL:CG1	7:G:111:VAL:O	2.60	0.45
8:H:80:VAL:O	8:H:94:TYR:O	2.35	0.45
11:K:9:LEU:O	11:K:9:LEU:HD23	2.16	0.45
11:K:39:HIS:CD2	11:K:39:HIS:O	2.70	0.45
1:M:69:CYS:O	1:M:70:GLN:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:778:GLY:HA3	1:M:1092:VAL:N	2.29	0.45
1:M:864:ASN:ND2	1:M:865:ALA:N	2.60	0.45
1:M:960:PRO:O	1:M:961:VAL:HB	2.17	0.45
1:M:1062:SER:HB2	1:M:1063:PRO:CA	2.47	0.45
1:M:1069:THR:O	1:M:1073:GLN:HG3	2.16	0.45
1:M:1101:VAL:N	1:M:1102:PRO:CD	2.73	0.45
1:M:1293:HIS:CD2	1:M:1311:VAL:HB	2.50	0.45
1:M:1295:ILE:CD1	1:M:1309:GLU:OE2	2.65	0.45
1:M:1431:SER:HA	1:M:1434:ILE:HD11	1.99	0.45
1:M:1455:MET:O	1:M:1459:TYR:HB2	2.16	0.45
2:N:222:VAL:CG1	2:N:223:ALA:N	2.80	0.45
2:N:501:HIS:CD2	2:N:503:THR:OG1	2.69	0.45
2:N:975:GLN:O	2:N:976:LYS:C	2.54	0.45
3:O:218:GLU:HB3	3:O:219:PRO:C	2.36	0.45
5:Q:190:VAL:HG22	5:Q:208:ILE:CG2	2.39	0.45
7:S:23:MET:O	7:S:24:GLN:C	2.55	0.45
11:W:15:LEU:HA	11:W:16:PRO:HD3	1.80	0.45
11:W:97:LEU:O	11:W:100:ILE:HG12	2.16	0.45
1:A:8:PRO:HG2	2:B:1148:ARG:HD3	1.97	0.45
1:A:91:PRO:HB3	1:A:210:PRO:HG2	1.97	0.45
1:A:249:PRO:HB2	1:A:250:PRO:HD2	1.99	0.45
1:A:342:LEU:HD11	1:A:1409:GLU:OE2	2.17	0.45
1:A:355:ALA:HB2	2:B:1094:ALA:HA	1.98	0.45
1:A:405:HIS:C	1:A:407:GLY:H	2.19	0.45
1:A:640:TRP:HE3	1:A:641:LYS:HB2	1.80	0.45
1:A:793:PHE:CZ	1:A:817:GLN:CD	2.90	0.45
1:A:1101:VAL:O	1:A:1102:PRO:C	2.54	0.45
1:A:1431:SER:HA	1:A:1434:ILE:HD11	1.98	0.45
2:B:214:ALA:HA	2:B:215:ALA:HA	1.67	0.45
2:B:223:ALA:HB2	2:B:371:MET:SD	2.56	0.45
2:B:538:ALA:C	2:B:540:ILE:N	2.70	0.45
3:C:9:ILE:HA	3:C:19:PHE:HA	1.99	0.45
1:M:155:SER:C	1:M:169:ASN:HA	2.37	0.45
1:M:431:PRO:O	1:M:432:LEU:HG	2.16	0.45
1:M:646:GLU:N	1:M:648:CYS:H	2.09	0.45
1:M:922:GLU:N	1:M:923:ASN:HA	2.29	0.45
1:M:1109:ASN:C	1:M:1111:ALA:N	2.70	0.45
1:M:1119:LEU:HD11	1:M:1121:ILE:CG1	2.47	0.45
1:M:1386:HIS:ND1	5:Q:174:GLN:NE2	2.65	0.45
2:N:310:ILE:O	2:N:315:ILE:CD1	2.65	0.45
2:N:487:PRO:HA	2:N:488:ILE:HA	1.60	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:855:ILE:HG13	2:N:856:GLY:N	2.23	0.45
2:N:862:GLU:HG2	2:N:863:PHE:N	2.32	0.45
2:N:875:LYS:C	2:N:876:HIS:CD2	2.90	0.45
3:O:222:PHE:C	3:O:224:GLU:H	2.19	0.45
4:P:85:PHE:CE2	4:P:115:ILE:HD11	2.51	0.45
7:S:115:LEU:CG	7:S:163:THR:HG22	2.46	0.45
7:S:122:PHE:CD1	7:S:122:PHE:O	2.69	0.45
9:U:7:CYS:HB2	9:U:34:TYR:CE2	2.51	0.45
1:A:109:CYS:SG	1:A:112:CYS:SG	3.13	0.45
1:A:267:ASP:HB3	1:A:268:LEU:CD2	2.47	0.45
1:A:740:GLU:C	1:A:742:SER:H	2.20	0.45
1:A:783:PHE:O	1:A:784:GLY:O	2.34	0.45
1:A:1062:SER:HB2	1:A:1063:PRO:CA	2.47	0.45
1:A:1372:ARG:O	1:A:1375:ALA:HB3	2.17	0.45
2:B:212:LYS:HB3	2:B:212:LYS:HE3	1.54	0.45
2:B:534:GLY:HA3	2:B:616:ALA:HB2	1.98	0.45
2:B:823:ASN:O	2:B:823:ASN:CG	2.54	0.45
2:B:1022:LYS:O	2:B:1025:ALA:HB2	2.17	0.45
2:B:1022:LYS:HE2	10:J:43:TYR:OH	2.17	0.45
2:B:1040:THR:HG22	2:B:1043:ALA:HB2	1.99	0.45
2:B:1095:ARG:HD3	2:B:1096:ALA:N	2.28	0.45
2:B:1111:ARG:C	2:B:1112:SER:OG	2.52	0.45
3:C:24:THR:O	3:C:227:ARG:HG2	2.17	0.45
3:C:207:ASN:ND2	3:C:230:TYR:CD2	2.85	0.45
7:G:23:MET:O	7:G:24:GLN:C	2.55	0.45
7:G:150:GLY:O	7:G:160:ALA:CA	2.64	0.45
8:H:90:LYS:HG2	8:H:91:VAL:N	2.32	0.45
1:M:426:ARG:HD2	1:M:426:ARG:HA	1.68	0.45
1:M:428:GLY:O	1:M:429:ASP:C	2.54	0.45
1:M:525:PRO:HD3	1:M:637:HIS:CE1	2.46	0.45
1:M:573:LYS:NZ	8:T:74:TYR:CE1	2.81	0.45
1:M:1040:LEU:HD13	1:M:1048:ILE:HD12	1.99	0.45
1:M:1092:VAL:O	1:M:1093:SER:CB	2.65	0.45
1:M:1094:SER:O	1:M:1095:LYS:O	2.35	0.45
1:M:1126:TRP:HA	1:M:1127:ILE:HA	1.75	0.45
1:M:1413:GLU:O	1:M:1414:ILE:C	2.55	0.45
2:N:174:LEU:HD22	2:N:179:GLU:OE1	2.17	0.45
2:N:534:GLY:HA3	2:N:616:ALA:HB2	1.98	0.45
3:O:130:LEU:CD1	3:O:130:LEU:H	2.21	0.45
3:O:171:TRP:O	3:O:172:SER:C	2.56	0.45
3:O:255:LYS:HB3	11:W:41:LEU:HD11	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:P:61:TYR:O	4:P:65:PHE:CD2	2.69	0.45
4:P:99:GLU:HG2	4:P:124:LEU:CG	2.47	0.45
9:U:4:PHE:HE2	9:U:43:VAL:CG1	2.30	0.45
1:A:86:ILE:O	1:A:87:GLU:O	2.35	0.45
1:A:181:THR:C	1:A:182:ILE:CG1	2.85	0.45
1:A:343:ARG:NE	1:A:1409:GLU:CD	2.62	0.45
1:A:466:ILE:HB	1:A:467:ARG:H	1.55	0.45
1:A:638:THR:HG23	1:A:965:ARG:HH21	1.74	0.45
1:A:820:PHE:HE1	2:B:508:VAL:HG21	1.82	0.45
1:A:922:GLU:CB	1:A:924:ASP:N	2.80	0.45
1:A:1070:LEU:HD12	1:A:1070:LEU:C	2.34	0.45
1:A:1460:SER:O	1:A:1461:LEU:O	2.35	0.45
1:A:1478:LEU:HD23	4:D:45:THR:CA	2.47	0.45
2:B:174:LEU:HD22	2:B:179:GLU:OE1	2.17	0.45
2:B:222:VAL:CG1	2:B:223:ALA:N	2.80	0.45
2:B:233:SER:O	2:B:234:ARG:C	2.54	0.45
2:B:733:HIS:CD2	2:B:735:ALA:HB3	2.52	0.45
2:B:901:ILE:HD13	2:B:901:ILE:N	2.32	0.45
2:B:969:PHE:CE2	2:B:1083:ARG:HG2	2.52	0.45
2:B:1185:PRO:C	2:B:1187:ALA:H	2.20	0.45
4:D:24:MET:CE	4:D:88:PHE:HD1	2.21	0.45
9:I:73:LYS:CA	9:I:81:HIS:CD2	3.00	0.45
1:M:100:LYS:HZ3	1:M:1420:ALA:HB1	1.81	0.45
1:M:117:ILE:HG23	1:M:118:ASP:H	1.81	0.45
1:M:120:SER:H	1:M:122:PRO:CD	2.28	0.45
1:M:208:LEU:CD2	1:M:213:VAL:HG22	2.16	0.45
1:M:256:ILE:CG2	1:M:257:SER:N	2.79	0.45
1:M:380:LEU:O	1:M:381:THR:CB	2.61	0.45
1:M:547:LEU:HD23	1:M:547:LEU:HA	1.58	0.45
1:M:596:ARG:HG2	1:M:598:ASP:OD1	2.17	0.45
1:M:632:GLN:C	1:M:634:GLY:H	2.20	0.45
1:M:836:LYS:CG	1:M:840:THR:CG2	2.84	0.45
1:M:922:GLU:CB	1:M:924:ASP:N	2.80	0.45
1:M:1451:LEU:HD12	7:S:71:PHE:CZ	2.52	0.45
2:N:292:ASN:H	2:N:293:ASP:CG	2.20	0.45
2:N:469:LEU:HD13	2:N:471:ARG:NE	2.32	0.45
2:N:505:TRP:CE2	2:N:737:ILE:HD13	2.52	0.45
2:N:699:GLN:HB3	2:N:704:TYR:CB	2.46	0.45
2:N:839:LEU:O	2:N:840:PHE:C	2.55	0.45
2:N:1023:VAL:O	2:N:1023:VAL:CG1	2.65	0.45
2:N:1040:THR:HG23	2:N:1043:ALA:H	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1076:LEU:HD23	2:N:1077:GLY:N	2.31	0.45
5:Q:166:ARG:C	5:Q:168:THR:N	2.71	0.45
11:W:9:LEU:HD21	11:W:68:HIS:CE1	2.51	0.45
1:A:419:ILE:CG2	1:A:419:ILE:O	2.63	0.45
1:A:445:GLY:HA2	1:A:446:ASP:O	2.17	0.45
1:A:512:MET:C	1:A:514:PRO:N	2.68	0.45
1:A:563:ASP:HB3	1:A:565:ILE:HG12	1.99	0.45
1:A:740:GLU:OE2	1:A:764:ILE:CB	2.57	0.45
1:A:947:LYS:CB	1:A:948:PHE:CA	2.92	0.45
1:A:1006:SER:HA	1:A:1007:ASP:HB3	1.99	0.45
1:A:1081:GLN:NE2	1:A:1368:TYR:CD2	2.78	0.45
1:A:1138:GLN:HG2	1:A:1312:LEU:HD21	1.98	0.45
1:A:1282:VAL:CG2	1:A:1285:ILE:HD12	2.45	0.45
1:A:1403:LEU:CB	1:A:1432:GLU:HG3	2.47	0.45
1:A:1442:MET:CG	2:B:1128:ILE:HG23	2.41	0.45
1:A:1478:LEU:HD23	4:D:45:THR:N	2.30	0.45
2:B:220:ALA:O	2:B:221:TYR:CG	2.70	0.45
2:B:404:ARG:HH11	2:B:404:ARG:HG2	1.82	0.45
2:B:426:ARG:C	2:B:428:PHE:N	2.70	0.45
2:B:593:LEU:HD12	2:B:670:SER:HB2	1.98	0.45
2:B:654:ARG:CB	2:B:662:ARG:HD3	2.47	0.45
2:B:741:LEU:HD22	2:B:760:SER:O	2.17	0.45
2:B:783:ASN:HD22	2:B:1085:LYS:HG2	1.82	0.45
2:B:829:ILE:O	2:B:829:ILE:CG1	2.64	0.45
2:B:886:GLY:O	2:B:887:LEU:HD23	2.17	0.45
3:C:14:LYS:O	3:C:241:PRO:HG3	2.16	0.45
3:C:59:ASP:OD1	3:C:59:ASP:N	2.50	0.45
3:C:222:PHE:C	3:C:224:GLU:H	2.19	0.45
4:D:61:TYR:O	4:D:65:PHE:CD2	2.68	0.45
5:E:116:LYS:C	5:E:118:ILE:N	2.70	0.45
7:G:93:THR:HG23	7:G:94:THR:HG23	1.99	0.45
8:H:4:SER:O	8:H:6:LEU:HG	2.17	0.45
1:M:146:THR:HA	1:M:148:MET:HE3	1.98	0.45
1:M:452:ARG:NH1	1:M:486:ALA:HB2	2.30	0.45
1:M:510:ILE:HG13	1:M:511:THR:H	1.82	0.45
1:M:826:GLY:O	1:M:830:LEU:HB2	2.17	0.45
1:M:839:GLU:CA	1:M:842:TYR:HD2	2.29	0.45
1:M:1124:MET:HB2	1:M:1126:TRP:O	2.17	0.45
1:M:1160:ASP:C	1:M:1162:GLN:H	2.18	0.45
2:N:16:ASP:HA	2:N:19:THR:CG2	2.46	0.45
2:N:290:ASP:HA	2:N:292:ASN:CG	2.36	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:733:HIS:CD2	2:N:735:ALA:HB3	2.52	0.45
2:N:969:PHE:CE2	2:N:1083:ARG:HG2	2.52	0.45
2:N:1022:LYS:O	2:N:1025:ALA:HB2	2.17	0.45
2:N:1026:LEU:HA	10:V:46:ARG:NH1	2.32	0.45
5:Q:57:LEU:HD12	5:Q:57:LEU:HA	1.87	0.45
5:Q:142:HIS:HB3	5:Q:145:VAL:HG23	1.98	0.45
7:S:14:LEU:CD1	7:S:30:LYS:HD2	2.47	0.45
7:S:80:TRP:CH2	7:S:107:LEU:HD23	2.51	0.45
9:U:98:THR:O	9:U:99:LEU:C	2.54	0.45
1:A:110:TRP:CH2	1:A:178:ALA:HA	2.53	0.44
1:A:254:PRO:HG2	1:A:266:ASP:HB2	1.97	0.44
1:A:452:ARG:NH1	1:A:486:ALA:HB2	2.30	0.44
1:A:778:GLY:HA2	1:A:1092:VAL:HG23	1.99	0.44
1:A:1119:LEU:C	1:A:1119:LEU:HD12	2.36	0.44
1:A:1166:ILE:HD13	1:A:1171:ASP:CG	2.36	0.44
1:A:1260:ILE:HA	1:A:1261:GLU:HB3	1.98	0.44
1:A:1317:ILE:HB	1:A:1318:ASN:CB	2.43	0.44
2:B:254:THR:HB	2:B:306:GLU:OE2	2.17	0.44
2:B:296:MET:HE1	2:B:373:LEU:N	2.32	0.44
2:B:325:SER:O	2:B:326:THR:OG1	2.34	0.44
2:B:745:ILE:HG12	2:B:748:PRO:HG3	1.99	0.44
2:B:791:PRO:HB2	2:B:794:THR:HB	2.00	0.44
2:B:943:VAL:CG2	2:B:953:VAL:HG13	2.36	0.44
2:B:1017:GLU:OE2	2:B:1080:TYR:HE2	1.99	0.44
2:B:1040:THR:HG23	2:B:1043:ALA:H	1.82	0.44
3:C:40:ILE:CD1	3:C:173:PRO:HD2	2.47	0.44
5:E:58:SER:HB2	5:E:75:GLU:CA	2.27	0.44
5:E:75:GLU:H	5:E:103:ILE:CD1	2.29	0.44
7:G:122:PHE:CD1	7:G:122:PHE:O	2.70	0.44
9:I:72:ASP:OD1	9:I:81:HIS:CE1	2.70	0.44
10:J:51:THR:O	10:J:51:THR:HG23	2.16	0.44
11:K:42:ALA:HB1	11:K:60:TYR:CD1	2.53	0.44
1:M:214:HIS:O	1:M:218:THR:HG23	2.17	0.44
1:M:506:GLU:O	1:M:510:ILE:HG12	2.18	0.44
1:M:618:ILE:HD13	1:M:618:ILE:O	2.17	0.44
1:M:1048:ILE:C	1:M:1050:GLY:H	2.20	0.44
1:M:1087:PHE:O	1:M:1090:ALA:CB	2.65	0.44
1:M:1121:ILE:CG2	1:M:1328:VAL:O	2.66	0.44
1:M:1288:VAL:HG12	1:M:1289:TYR:H	1.82	0.44
1:M:1327:GLY:HA3	1:M:1328:VAL:HA	1.66	0.44
1:M:1345:LEU:HD23	1:M:1345:LEU:HA	1.87	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:254:THR:HB	2:N:306:GLU:OE2	2.17	0.44
2:N:278:VAL:H	2:N:279:PRO:CD	2.24	0.44
2:N:296:MET:CE	2:N:372:LEU:O	2.64	0.44
2:N:459:MET:HB3	2:N:460:VAL:H	1.69	0.44
2:N:651:ASP:HB3	2:N:662:ARG:HB3	1.98	0.44
2:N:778:MET:HG3	2:N:954:LYS:HD3	1.98	0.44
2:N:892:THR:O	2:N:894:VAL:HG23	2.17	0.44
2:N:985:HIS:HE1	2:N:996:VAL:HG11	1.76	0.44
3:O:59:ASP:OD2	12:X:53:ARG:NH1	2.50	0.44
4:P:84:ARG:C	4:P:90:ARG:HD2	2.37	0.44
5:Q:160:LEU:N	5:Q:160:LEU:HD23	2.31	0.44
7:S:138:ILE:CD1	7:S:171:VAL:HG22	2.47	0.44
10:V:41:GLN:H	10:V:41:GLN:HG3	1.66	0.44
1:A:732:ARG:CG	1:A:733:ASP:N	2.79	0.44
1:A:876:GLU:CD	5:E:195:ARG:HH22	2.20	0.44
1:A:960:PRO:O	1:A:961:VAL:HB	2.17	0.44
1:A:1125:PRO:CG	1:A:1129:ALA:HB2	2.45	0.44
1:A:1386:HIS:ND1	5:E:174:GLN:NE2	2.64	0.44
2:B:247:ASN:O	2:B:249:GLU:N	2.48	0.44
2:B:433:ALA:O	2:B:434:VAL:C	2.55	0.44
2:B:579:PRO:O	2:B:580:ALA:C	2.56	0.44
2:B:685:VAL:CG1	2:B:729:HIS:ND1	2.80	0.44
2:B:892:THR:O	2:B:894:VAL:HG23	2.17	0.44
2:B:903:LYS:HD2	2:B:926:VAL:O	2.16	0.44
2:B:939:ASP:OD2	2:B:956:ARG:NH1	2.49	0.44
2:B:942:MET:HB2	12:L:50:TYR:HE2	1.81	0.44
2:B:1023:VAL:O	2:B:1023:VAL:CG1	2.65	0.44
3:C:59:ASP:OD2	12:L:53:ARG:NH1	2.50	0.44
3:C:70:PRO:C	3:C:71:LEU:HD12	2.37	0.44
3:C:135:LEU:CD2	3:C:141:ARG:C	2.86	0.44
3:C:164:ILE:O	3:C:165:ALA:C	2.54	0.44
3:C:171:TRP:O	3:C:172:SER:C	2.56	0.44
3:C:242:ASN:H	3:C:243:GLU:HB2	1.82	0.44
4:D:84:ARG:NH2	4:D:87:LYS:HE3	2.32	0.44
5:E:49:GLY:HA3	5:E:51:ASN:H	1.82	0.44
9:I:7:CYS:HB2	9:I:34:TYR:CE2	2.52	0.44
12:L:23:LEU:HD22	12:L:28:GLY:O	2.18	0.44
1:M:154:LEU:N	1:M:173:GLY:CA	2.65	0.44
1:M:195:ARG:HB3	1:M:196:GLY:CA	2.39	0.44
1:M:342:LEU:HD11	1:M:1409:GLU:OE2	2.17	0.44
1:M:857:ARG:HG3	1:M:863:ARG:HD2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:967:ILE:O	1:M:970:ALA:HB3	2.17	0.44
1:M:1126:TRP:HE3	1:M:1127:ILE:HG23	1.83	0.44
1:M:1166:ILE:CA	1:M:1167:GLU:CB	2.30	0.44
2:N:105:ARG:O	2:N:108:ASN:N	2.50	0.44
2:N:211:PHE:CE2	2:N:384:ARG:NH1	2.85	0.44
2:N:685:VAL:CG1	2:N:729:HIS:ND1	2.80	0.44
2:N:973:HIS:HE1	2:N:1017:GLU:OE1	2.01	0.44
3:O:135:LEU:CD2	3:O:141:ARG:C	2.86	0.44
4:P:87:LYS:H	4:P:87:LYS:HG2	1.59	0.44
6:R:125:ARG:NE	6:R:133:TYR:CE1	2.86	0.44
8:T:6:LEU:HB2	8:T:59:ILE:HG13	1.99	0.44
10:V:43:TYR:HB2	10:V:44:CYS:CB	2.47	0.44
12:X:23:LEU:HD22	12:X:28:GLY:O	2.18	0.44
1:A:33:SER:HB2	1:A:85:HIS:N	2.30	0.44
1:A:161:PHE:HD2	1:A:165:ASN:ND2	2.11	0.44
1:A:244:VAL:O	1:A:245:LEU:O	2.36	0.44
1:A:584:LEU:C	1:A:586:LEU:H	2.20	0.44
1:A:618:ILE:O	1:A:618:ILE:HD13	2.17	0.44
1:A:811:LEU:C	2:B:750:HIS:NE2	2.70	0.44
1:A:820:PHE:O	1:A:821:PHE:C	2.54	0.44
1:A:1098:THR:O	1:A:1099:LEU:CB	2.48	0.44
1:A:1191:GLN:OE1	1:A:1246:ILE:HA	2.17	0.44
2:B:56:LEU:HG	2:B:415:TYR:HD1	1.83	0.44
2:B:88:THR:OG1	2:B:89:MET:N	2.51	0.44
2:B:106:LEU:HA	2:B:954:LYS:HZ2	1.83	0.44
2:B:269:VAL:O	2:B:273:ARG:HG3	2.17	0.44
2:B:300:MET:C	2:B:302:PRO:HD2	2.38	0.44
2:B:654:ARG:HD2	2:B:657:ILE:HG13	1.99	0.44
3:C:4:GLU:N	3:C:5:THR:CA	2.74	0.44
3:C:95:TYR:CE2	3:C:161:LYS:HE2	2.51	0.44
4:D:19:PHE:HE1	7:G:42:GLN:O	1.98	0.44
7:G:6:LYS:NZ	7:G:43:TYR:CE1	2.57	0.44
8:H:93:VAL:H	8:H:104:ILE:HG13	1.83	0.44
8:H:121:LEU:HD23	8:H:122:LEU:N	2.33	0.44
1:M:23:ILE:O	1:M:23:ILE:HG22	2.17	0.44
1:M:267:ASP:N	1:M:268:LEU:HB2	2.09	0.44
1:M:445:GLY:HA2	1:M:446:ASP:O	2.17	0.44
1:M:760:SER:O	1:M:763:ASN:HB2	2.17	0.44
1:M:773:GLN:HB2	1:M:804:GLY:O	2.17	0.44
1:M:784:GLY:HA2	1:M:785:PHE:C	2.37	0.44
1:M:985:LEU:HD22	1:M:986:PRO:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1026:ARG:O	1:M:1030:ALA:HB2	2.18	0.44
1:M:1409:GLU:CB	1:M:1410:GLU:HA	2.45	0.44
2:N:218:PRO:HG2	2:N:219:ILE:H	1.82	0.44
2:N:350:ILE:HG22	2:N:351:THR:N	2.33	0.44
2:N:538:ALA:C	2:N:540:ILE:N	2.70	0.44
2:N:654:ARG:HB3	2:N:655:TYR:C	2.36	0.44
2:N:831:ASN:HD21	2:N:833:ALA:N	2.14	0.44
2:N:942:MET:HB2	12:X:50:TYR:CD2	2.51	0.44
3:O:9:ILE:HA	3:O:19:PHE:HA	1.99	0.44
3:O:24:THR:O	3:O:227:ARG:HG2	2.17	0.44
3:O:39:GLU:OE2	3:O:166:LYS:NZ	2.49	0.44
3:O:54:THR:HG23	3:O:152:GLN:HA	2.00	0.44
5:Q:53:ASP:O	5:Q:54:ARG:C	2.56	0.44
5:Q:171:PRO:CB	5:Q:207:ARG:HG2	2.36	0.44
5:Q:197:SER:HB3	5:Q:199:THR:HB	1.99	0.44
10:V:49:ILE:HD12	10:V:49:ILE:N	2.33	0.44
1:A:45:GLU:O	1:A:45:GLU:HG2	2.17	0.44
1:A:88:LEU:HD22	1:A:88:LEU:HA	1.88	0.44
1:A:131:ARG:O	1:A:136:ARG:NE	2.49	0.44
1:A:236:ARG:O	1:A:239:TRP:HB2	2.18	0.44
1:A:522:SER:O	1:A:523:ASN:C	2.56	0.44
1:A:1048:ILE:C	1:A:1050:GLY:H	2.20	0.44
1:A:1121:ILE:CG2	1:A:1328:VAL:O	2.65	0.44
2:B:101:PRO:HG3	2:B:111:TYR:CD1	2.51	0.44
2:B:364:LEU:HD23	2:B:367:MET:HE2	1.98	0.44
2:B:469:LEU:HD13	2:B:471:ARG:NE	2.32	0.44
2:B:474:PHE:CE2	2:B:478:LEU:HD11	2.53	0.44
2:B:552:LEU:HB3	2:B:573:LEU:HD13	1.99	0.44
2:B:677:LEU:HB3	2:B:682:GLU:OE1	2.17	0.44
2:B:924:ARG:HG2	2:B:924:ARG:HH11	1.83	0.44
2:B:1023:VAL:C	2:B:1025:ALA:H	2.20	0.44
2:B:1076:LEU:HD23	2:B:1077:GLY:N	2.32	0.44
3:C:45:ILE:HD11	3:C:66:LEU:C	2.38	0.44
3:C:54:THR:HG23	3:C:152:GLN:HA	1.99	0.44
5:E:53:ASP:O	5:E:54:ARG:C	2.56	0.44
5:E:175:LEU:C	5:E:177:ASP:H	2.19	0.44
7:G:14:LEU:CD1	7:G:30:LYS:HD2	2.47	0.44
8:H:80:VAL:HA	8:H:95:VAL:CG2	2.36	0.44
11:K:76:THR:OG1	11:K:77:VAL:O	2.30	0.44
1:M:115:LEU:HD21	1:M:227:HIS:CD2	2.51	0.44
1:M:151:ASP:HB2	1:M:172:HIS:CE1	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:271:LYS:HZ2	1:M:308:THR:CB	2.30	0.44
1:M:1083:THR:HB	1:M:1101:VAL:CB	2.48	0.44
1:M:1277:ILE:O	1:M:1278:SER:O	2.35	0.44
1:M:1450:TYR:CD1	7:S:61:ARG:HB2	2.48	0.44
1:M:1450:TYR:CD1	7:S:61:ARG:N	2.85	0.44
2:N:485:ASN:C	2:N:486:THR:HG22	2.37	0.44
2:N:621:ARG:NH2	2:N:682:GLU:CD	2.71	0.44
2:N:654:ARG:CB	2:N:662:ARG:HD3	2.48	0.44
2:N:1154:ILE:O	2:N:1205:PHE:CE1	2.71	0.44
3:O:129:SER:HB2	3:O:130:LEU:C	2.38	0.44
4:P:129:THR:O	4:P:133:PHE:CG	2.70	0.44
6:R:71:THR:HG21	6:R:126:ARG:HD2	2.00	0.44
8:T:88:ASP:O	8:T:89:GLU:C	2.56	0.44
9:U:6:TYR:HA	9:U:12:ASN:O	2.16	0.44
1:A:148:MET:CA	1:A:179:GLN:HA	2.48	0.44
1:A:271:LYS:HE2	1:A:328:LEU:HB3	1.95	0.44
1:A:432:LEU:HD23	1:A:436:TRP:CE2	2.52	0.44
1:A:520:PRO:HB3	1:A:882:THR:HB	2.00	0.44
1:A:985:LEU:HD22	1:A:986:PRO:HD2	2.00	0.44
1:A:1083:THR:HB	1:A:1101:VAL:CB	2.48	0.44
1:A:1083:THR:HB	1:A:1101:VAL:HG21	1.99	0.44
1:A:1450:TYR:CD1	7:G:61:ARG:CB	3.00	0.44
1:A:1459:TYR:CD1	1:A:1460:SER:N	2.82	0.44
2:B:106:LEU:HD22	2:B:106:LEU:N	2.21	0.44
2:B:505:TRP:CE2	2:B:737:ILE:HD13	2.52	0.44
2:B:685:VAL:HG11	2:B:729:HIS:CE1	2.53	0.44
2:B:1026:LEU:HA	10:J:46:ARG:NH1	2.32	0.44
2:B:1135:VAL:O	2:B:1139:ARG:HG2	2.17	0.44
3:C:129:SER:HB2	3:C:130:LEU:C	2.38	0.44
6:F:71:THR:HG21	6:F:126:ARG:HD2	2.00	0.44
7:G:14:LEU:HD22	7:G:71:PHE:CE2	2.53	0.44
7:G:94:THR:HG21	8:T:2:SER:CA	2.45	0.44
8:H:38:LEU:HD23	8:H:104:ILE:HG23	1.94	0.44
1:M:65:ARG:O	1:M:67:PHE:HD1	2.01	0.44
1:M:95:ILE:CG2	1:M:314:ILE:HG21	2.47	0.44
1:M:425:LYS:HE3	1:M:430:ILE:HG21	2.00	0.44
1:M:815:THR:OG1	1:M:818:GLU:CD	2.56	0.44
1:M:838:ALA:HB1	1:M:842:TYR:HE2	1.81	0.44
1:M:1286:THR:HB	1:M:1287:ARG:H	1.59	0.44
1:M:1372:ARG:O	1:M:1375:ALA:HB3	2.17	0.44
1:M:1412:VAL:HG13	1:M:1413:GLU:HG2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:41:PHE:HB3	2:N:42:VAL:HG23	1.98	0.44
2:N:106:LEU:HD22	2:N:106:LEU:N	2.21	0.44
2:N:428:PHE:C	2:N:429:ASN:CG	2.75	0.44
2:N:455:GLN:O	2:N:456:LYS:O	2.36	0.44
2:N:579:PRO:O	2:N:580:ALA:C	2.56	0.44
2:N:703:GLY:C	2:N:704:TYR:CD1	2.84	0.44
2:N:745:ILE:HG12	2:N:748:PRO:HG3	1.99	0.44
2:N:791:PRO:HB2	2:N:794:THR:HB	2.00	0.44
2:N:1170:CYS:HB2	2:N:1175:ASN:H	1.83	0.44
4:P:57:LYS:C	4:P:61:TYR:HD2	2.16	0.44
5:Q:49:GLY:HA3	5:Q:51:ASN:H	1.82	0.44
7:S:147:LYS:HZ2	7:S:166:GLU:HB3	1.83	0.44
1:A:94:HIS:O	1:A:95:ILE:O	2.36	0.44
1:A:94:HIS:CD2	1:A:97:PHE:HB2	2.27	0.44
1:A:171:GLY:O	1:A:172:HIS:C	2.55	0.44
1:A:322:GLN:CD	1:A:328:LEU:HD23	2.35	0.44
1:A:425:LYS:HE3	1:A:430:ILE:HG21	2.00	0.44
1:A:549:ARG:NH2	11:K:50:LEU:HD11	2.33	0.44
1:A:1048:ILE:C	1:A:1050:GLY:N	2.71	0.44
1:A:1183:GLU:O	1:A:1185:GLU:N	2.51	0.44
2:B:41:PHE:H	2:B:42:VAL:CA	2.30	0.44
2:B:317:LEU:CB	2:B:335:LEU:CD2	2.95	0.44
2:B:456:LYS:HD3	2:B:456:LYS:HA	1.46	0.44
2:B:856:GLY:CA	2:B:857:MET:C	2.85	0.44
2:B:990:PHE:CD1	3:C:179:PHE:CE2	3.06	0.44
2:B:1154:ILE:O	2:B:1205:PHE:CE1	2.71	0.44
2:B:1176:ARG:C	2:B:1179:PHE:CE2	2.89	0.44
3:C:255:LYS:HB3	11:K:41:LEU:HD11	1.99	0.44
4:D:45:THR:HG22	4:D:47:GLY:H	1.83	0.44
4:D:57:LYS:HB3	4:D:61:TYR:HE2	1.81	0.44
4:D:65:PHE:O	4:D:67:ARG:N	2.50	0.44
4:D:132:LYS:CA	4:D:134:GLN:HB2	2.48	0.44
5:E:197:SER:HB3	5:E:199:THR:HB	1.98	0.44
6:F:99:VAL:HG22	6:F:119:LYS:HD2	1.98	0.44
11:K:97:LEU:O	11:K:100:ILE:HG12	2.16	0.44
1:M:176:GLY:O	1:M:179:GLN:CD	2.56	0.44
1:M:368:ASP:OD2	1:M:649:LYS:NZ	2.50	0.44
1:M:522:SER:O	1:M:523:ASN:C	2.56	0.44
1:M:1096:ASN:O	1:M:1097:VAL:C	2.56	0.44
1:M:1104:LEU:CD1	1:M:1108:LEU:HG	2.48	0.44
1:M:1119:LEU:CA	1:M:1314:THR:CG2	2.92	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1450:TYR:CD2	6:R:125:ARG:HG3	2.50	0.44
1:M:1504:ALA:HA	1:M:1507:PRO:HG3	1.99	0.44
2:N:158:MET:HE2	2:N:158:MET:HB3	1.73	0.44
2:N:183:ASP:OD1	2:N:771:LEU:HD22	2.18	0.44
2:N:198:ILE:O	2:N:199:ALA:O	2.36	0.44
2:N:234:ARG:HE	2:N:408:ARG:HH22	1.66	0.44
2:N:269:VAL:O	2:N:273:ARG:HG3	2.17	0.44
2:N:387:PHE:CZ	2:N:504:HIS:HA	2.52	0.44
2:N:433:ALA:O	2:N:434:VAL:C	2.55	0.44
2:N:474:PHE:CE2	2:N:478:LEU:HD11	2.53	0.44
2:N:508:VAL:O	2:N:508:VAL:HG12	2.15	0.44
2:N:552:LEU:HB3	2:N:573:LEU:HD13	1.99	0.44
2:N:901:ILE:HD13	2:N:901:ILE:N	2.32	0.44
2:N:990:PHE:CD1	3:O:179:PHE:CE2	3.06	0.44
3:O:59:ASP:N	3:O:59:ASP:OD1	2.50	0.44
4:P:65:PHE:O	4:P:67:ARG:N	2.50	0.44
5:Q:148:HIS:HA	5:Q:193:ILE:HG22	2.00	0.44
7:S:164:MET:HE3	7:S:170:GLY:N	2.30	0.44
11:W:80:CYS:HA	11:W:81:SER:HA	1.64	0.44
1:A:48:GLN:HG2	1:A:50:PRO:CD	2.46	0.44
1:A:106:GLU:HG2	1:A:144:CYS:HA	2.00	0.44
1:A:383:PRO:HB2	1:A:384:GLU:H	1.62	0.44
1:A:585:SER:HB3	1:A:618:ILE:HD12	1.99	0.44
1:A:596:ARG:HG2	1:A:598:ASP:OD1	2.17	0.44
1:A:1184:VAL:O	1:A:1186:GLU:HG3	2.17	0.44
1:A:1484:THR:O	1:A:1484:THR:CG2	2.60	0.44
2:B:166:LEU:O	2:B:168:GLY:N	2.51	0.44
2:B:183:ASP:OD1	2:B:771:LEU:HD22	2.18	0.44
2:B:292:ASN:H	2:B:293:ASP:CG	2.20	0.44
2:B:733:HIS:HD2	2:B:735:ALA:H	1.64	0.44
2:B:786:TYR:HE2	2:B:843:ILE:HG12	1.83	0.44
2:B:792:LEU:HG	2:B:811:ASN:OD1	2.18	0.44
2:B:816:ILE:HG12	2:B:1001:ILE:CD1	2.39	0.44
2:B:938:VAL:HA	2:B:957:MET:HA	1.98	0.44
4:D:24:MET:SD	4:D:88:PHE:CG	3.04	0.44
7:G:138:ILE:CD1	7:G:171:VAL:CG2	2.95	0.44
1:M:214:HIS:CE1	1:M:238:ASP:O	2.71	0.44
1:M:237:PRO:C	1:M:239:TRP:N	2.71	0.44
1:M:237:PRO:HA	1:M:240:MET:HE2	1.99	0.44
1:M:386:VAL:HG21	1:M:436:TRP:CD1	2.53	0.44
1:M:425:LYS:CE	1:M:430:ILE:HG21	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:815:THR:O	1:M:818:GLU:N	2.44	0.44
1:M:1083:THR:HB	1:M:1101:VAL:HG21	1.99	0.44
1:M:1098:THR:O	1:M:1099:LEU:CB	2.48	0.44
1:M:1295:ILE:CG2	1:M:1307:ALA:O	2.65	0.44
2:N:41:PHE:CD2	2:N:42:VAL:HG23	2.53	0.44
2:N:88:THR:OG1	2:N:89:MET:N	2.51	0.44
2:N:177:LEU:O	2:N:178:ASN:HB2	2.18	0.44
2:N:783:ASN:HD22	2:N:1085:LYS:HG2	1.82	0.44
2:N:1135:VAL:O	2:N:1139:ARG:HG2	2.17	0.44
7:S:14:LEU:HD22	7:S:71:PHE:CE2	2.53	0.44
8:T:4:SER:O	8:T:6:LEU:HG	2.17	0.44
8:T:17:ASP:CA	8:T:18:LYS:HB2	2.42	0.44
8:T:62:ASN:HB3	8:T:63:LEU:CD1	2.48	0.44
8:T:100:LEU:O	8:T:101:LEU:HD23	2.17	0.44
11:W:24:SER:OG	11:W:25:LYS:HB2	2.17	0.44
1:A:55:LEU:O	1:A:60:LEU:HD12	2.18	0.44
1:A:336:LYS:CG	1:A:1410:GLU:OE1	2.66	0.44
1:A:372:VAL:HG21	1:A:466:ILE:CG2	2.41	0.44
1:A:784:GLY:HA2	1:A:785:PHE:C	2.37	0.44
1:A:826:GLY:O	1:A:830:LEU:HB2	2.17	0.44
1:A:1122:TYR:C	1:A:1123:LEU:HD13	2.37	0.44
1:A:1166:ILE:HG12	1:A:1166:ILE:O	2.17	0.44
1:A:1188:LEU:O	1:A:1189:TYR:CB	2.66	0.44
2:B:106:LEU:H	2:B:106:LEU:CD2	2.21	0.44
2:B:198:ILE:O	2:B:199:ALA:O	2.36	0.44
2:B:350:ILE:HG22	2:B:351:THR:N	2.33	0.44
2:B:404:ARG:NH1	2:B:404:ARG:HG2	2.32	0.44
2:B:944:THR:HG23	2:B:945:THR:N	2.32	0.44
3:C:193:TRP:CE3	3:C:194:PHE:N	2.83	0.44
4:D:69:LYS:C	4:D:70:THR:HG23	2.32	0.44
5:E:148:HIS:HA	5:E:193:ILE:HG22	2.00	0.44
6:F:95:ALA:CB	6:F:96:PRO:HD2	2.42	0.44
7:G:100:PHE:CZ	7:G:131:TYR:HB2	2.53	0.44
8:H:6:LEU:HB2	8:H:59:ILE:HG13	1.99	0.44
9:I:39:ALA:C	9:I:40:THR:CG2	2.83	0.44
1:M:48:GLN:HG2	1:M:50:PRO:CG	2.47	0.44
1:M:151:ASP:HB2	1:M:172:HIS:HE2	1.81	0.44
1:M:448:VAL:HG23	1:M:497:VAL:HA	1.98	0.44
1:M:585:SER:HB3	1:M:618:ILE:HD12	1.99	0.44
1:M:769:ALA:C	1:M:809:SER:HB3	2.38	0.44
1:M:863:ARG:HG2	1:M:869:ILE:CG2	2.46	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:863:ARG:HH11	1:M:863:ARG:HD3	1.68	0.44
1:M:997:ILE:HA	1:M:1000:LEU:HG	1.99	0.44
1:M:1112:LYS:O	1:M:1114:ILE:HD13	2.17	0.44
1:M:1188:LEU:O	1:M:1189:TYR:CB	2.66	0.44
1:M:1362:ILE:O	1:M:1362:ILE:HG13	2.17	0.44
2:N:41:PHE:H	2:N:42:VAL:CA	2.31	0.44
2:N:654:ARG:HD2	2:N:657:ILE:HG13	1.99	0.44
2:N:1111:ARG:O	2:N:1112:SER:OG	2.34	0.44
4:P:45:THR:HG22	4:P:47:GLY:H	1.83	0.44
7:S:93:THR:HG23	7:S:94:THR:HG23	1.99	0.44
8:T:80:VAL:O	8:T:94:TYR:O	2.35	0.44
9:U:77:ARG:HG3	9:U:108:PHE:CE2	2.53	0.44
11:W:54:ARG:HE	11:W:54:ARG:HB3	1.61	0.44
1:A:62:THR:HG23	1:A:67:PHE:HB2	2.00	0.44
1:A:177:ALA:HB1	1:A:179:GLN:N	2.22	0.44
1:A:261:THR:O	1:A:261:THR:OG1	2.30	0.44
1:A:316:GLY:O	1:A:317:GLN:CB	2.55	0.44
1:A:428:GLY:O	1:A:429:ASP:C	2.54	0.44
1:A:506:GLU:O	1:A:510:ILE:HG12	2.17	0.44
1:A:857:ARG:NH1	1:A:857:ARG:HG2	2.32	0.44
1:A:919:ASN:ND2	1:A:919:ASN:N	2.54	0.44
1:A:1104:LEU:CD1	1:A:1108:LEU:HG	2.48	0.44
1:A:1119:LEU:HD11	1:A:1121:ILE:CG1	2.47	0.44
1:A:1164:THR:HG22	1:A:1242:ARG:NH2	2.18	0.44
1:A:1260:ILE:HD12	9:I:30:ARG:HH22	1.75	0.44
1:A:1492:VAL:HG12	1:A:1496:PHE:CE2	2.52	0.44
2:B:480:HIS:CD2	2:B:483:ARG:NH1	2.86	0.44
2:B:829:ILE:O	2:B:829:ILE:HG13	2.18	0.44
2:B:1189:LYS:HE2	2:B:1193:GLN:CD	2.38	0.44
3:C:197:ASP:O	3:C:200:ALA:HB3	2.18	0.44
9:I:24:VAL:CG1	9:I:25:LEU:H	2.28	0.44
1:M:163:LEU:N	1:M:165:ASN:H	2.15	0.44
1:M:236:ARG:O	1:M:239:TRP:HB2	2.18	0.44
1:M:879:LEU:CD1	1:M:960:PRO:CG	2.79	0.44
1:M:908:MET:HG3	1:M:909:GLU:HG3	2.00	0.44
1:M:1070:LEU:HD12	1:M:1070:LEU:C	2.34	0.44
1:M:1177:PHE:C	1:M:1180:PRO:CD	2.86	0.44
1:M:1184:VAL:O	1:M:1186:GLU:HG3	2.17	0.44
1:M:1347:ILE:O	1:M:1347:ILE:HG12	2.17	0.44
2:N:46:MET:HG3	2:N:403:PHE:CE2	2.53	0.44
2:N:214:ALA:HA	2:N:215:ALA:HA	1.67	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:480:HIS:CD2	2:N:483:ARG:NH1	2.85	0.44
2:N:1022:LYS:HE2	10:V:43:TYR:OH	2.17	0.44
2:N:1040:THR:HG22	2:N:1043:ALA:HB2	1.99	0.44
7:S:54:THR:HB	7:S:76:ARG:CD	2.48	0.44
7:S:101:PHE:HE1	7:S:110:PHE:CD1	2.31	0.44
8:T:71:ALA:O	8:T:72:ALA:HB3	2.18	0.44
8:T:121:LEU:HD23	8:T:122:LEU:N	2.32	0.44
9:U:24:VAL:HG13	9:U:25:LEU:H	1.81	0.44
12:X:44:CYS:HB2	12:X:45:GLY:H	1.53	0.44
1:A:95:ILE:O	1:A:96:GLY:O	2.36	0.43
1:A:118:ASP:CG	1:A:120:SER:HG	2.21	0.43
1:A:378:LYS:CA	1:A:441:HIS:HD2	2.30	0.43
1:A:566:LEU:HA	1:A:567:PRO:HD3	1.82	0.43
1:A:856:VAL:CG2	1:A:1067:VAL:HG21	2.37	0.43
1:A:1040:LEU:HD13	1:A:1048:ILE:HD12	1.99	0.43
1:A:1413:GLU:O	1:A:1414:ILE:C	2.55	0.43
2:B:16:ASP:HA	2:B:19:THR:CG2	2.46	0.43
2:B:455:GLN:O	2:B:456:LYS:O	2.36	0.43
2:B:747:PHE:CE1	2:B:1033:ALA:CB	3.01	0.43
2:B:790:LYS:HA	2:B:791:PRO:HD3	1.92	0.43
2:B:855:ILE:HG13	2:B:856:GLY:N	2.23	0.43
2:B:1170:CYS:SG	2:B:1179:PHE:CE1	3.08	0.43
3:C:69:ILE:HA	3:C:70:PRO:HD3	1.82	0.43
4:D:101:ALA:O	4:D:102:GLU:C	2.57	0.43
6:F:99:VAL:O	6:F:100:ASP:C	2.57	0.43
10:J:7:CYS:HB2	10:J:45:CYS:CB	2.39	0.43
11:K:117:GLY:HA3	11:K:118:VAL:HA	1.51	0.43
1:M:153:GLY:O	1:M:154:LEU:HG	2.17	0.43
1:M:225:LEU:O	1:M:230:LEU:HB2	2.18	0.43
1:M:866:MET:SD	1:M:1400:THR:HG23	2.58	0.43
2:N:579:PRO:HB2	2:N:603:ARG:NH2	2.33	0.43
2:N:786:TYR:HE2	2:N:843:ILE:HG12	1.83	0.43
2:N:792:LEU:HG	2:N:811:ASN:OD1	2.18	0.43
2:N:944:THR:HG23	2:N:945:THR:N	2.31	0.43
2:N:1039:VAL:O	2:N:1039:VAL:HG12	2.18	0.43
3:O:34:ARG:HH12	11:W:39:HIS:HB2	1.83	0.43
3:O:50:ILE:HG22	3:O:156:LEU:HD22	2.00	0.43
3:O:242:ASN:H	3:O:243:GLU:HB2	1.82	0.43
4:P:71:ALA:O	4:P:75:TYR:HE2	1.99	0.43
6:R:99:VAL:O	6:R:100:ASP:C	2.57	0.43
7:S:12:ILE:HD13	7:S:27:LEU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:89:GLU:O	8:T:90:LYS:O	2.36	0.43
1:A:148:MET:O	1:A:179:GLN:CA	2.58	0.43
1:A:324:SER:O	1:A:326:ARG:HG2	2.18	0.43
1:A:392:TYR:HE2	6:R:104:GLU:O	2.00	0.43
1:A:434:TYR:HD1	6:R:102:GLU:O	2.01	0.43
1:A:506:GLU:C	1:A:508:GLN:H	2.22	0.43
1:A:593:ASN:HD22	1:A:593:ASN:N	2.16	0.43
1:A:632:GLN:C	1:A:634:GLY:H	2.20	0.43
1:A:966:ILE:HD12	1:A:1048:ILE:HG23	1.99	0.43
1:A:1119:LEU:CG	1:A:1314:THR:CB	2.74	0.43
1:A:1126:TRP:HE3	1:A:1127:ILE:HG23	1.83	0.43
1:A:1362:ILE:HG13	1:A:1362:ILE:O	2.17	0.43
1:A:1401:GLY:O	1:A:1405:ARG:NE	2.51	0.43
1:A:1450:TYR:CE1	7:G:61:ARG:HB3	2.49	0.43
2:B:105:ARG:O	2:B:108:ASN:N	2.50	0.43
2:B:480:HIS:HD2	2:B:483:ARG:NH1	2.17	0.43
2:B:562:ASN:HD21	2:B:608:LYS:CG	2.17	0.43
2:B:753:SER:O	2:B:756:ASN:N	2.51	0.43
3:C:47:LEU:HD11	12:L:59:GLN:NE2	2.32	0.43
5:E:177:ASP:C	5:E:177:ASP:OD1	2.56	0.43
7:G:12:ILE:HD13	7:G:27:LEU:O	2.18	0.43
7:G:54:THR:CB	7:G:76:ARG:HD2	2.46	0.43
9:I:77:ARG:HG3	9:I:108:PHE:CE2	2.53	0.43
10:J:46:ARG:C	10:J:48:MET:H	2.21	0.43
1:M:33:SER:CB	1:M:85:HIS:N	2.81	0.43
1:M:94:HIS:O	1:M:95:ILE:C	2.56	0.43
1:M:785:PHE:CE2	1:M:791:PRO:HG3	2.51	0.43
1:M:849:LYS:O	1:M:1408:PHE:HE2	2.01	0.43
1:M:1042:LYS:O	1:M:1046:GLU:HG2	2.18	0.43
1:M:1166:ILE:HG12	1:M:1166:ILE:O	2.17	0.43
1:M:1382:THR:HG23	1:M:1382:THR:O	2.18	0.43
2:N:38:PHE:C	2:N:40:GLU:H	2.20	0.43
2:N:166:LEU:O	2:N:168:GLY:N	2.51	0.43
2:N:317:LEU:CB	2:N:335:LEU:CD2	2.95	0.43
2:N:399:LEU:HD23	2:N:402:LEU:HD12	1.99	0.43
2:N:517:GLN:HB3	2:N:518:ALA:H	1.64	0.43
2:N:888:ILE:HD13	2:N:900:ILE:CG2	2.48	0.43
2:N:1023:VAL:C	2:N:1025:ALA:H	2.20	0.43
2:N:1185:PRO:C	2:N:1187:ALA:H	2.20	0.43
3:O:45:ILE:HD11	3:O:66:LEU:C	2.38	0.43
5:Q:118:ILE:C	5:Q:120:THR:N	2.70	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:R:93:MET:HE1	7:S:66:GLN:O	2.15	0.43
8:T:80:VAL:HA	8:T:95:VAL:CG2	2.36	0.43
8:T:90:LYS:HG2	8:T:91:VAL:N	2.32	0.43
1:A:65:ARG:O	1:A:67:PHE:HD1	2.01	0.43
1:A:425:LYS:CE	1:A:430:ILE:HG21	2.48	0.43
1:A:476:LEU:C	1:A:476:LEU:HD12	2.39	0.43
1:A:853:ASP:HB3	1:A:864:ASN:HD22	1.81	0.43
1:A:1026:ARG:O	1:A:1030:ALA:HB2	2.18	0.43
1:A:1042:LYS:O	1:A:1046:GLU:HG2	2.18	0.43
1:A:1163:ASP:C	1:A:1164:THR:CG2	2.86	0.43
2:B:38:PHE:C	2:B:40:GLU:H	2.20	0.43
2:B:41:PHE:CD2	2:B:42:VAL:HG23	2.53	0.43
2:B:54:SER:CA	2:B:79:PHE:HD1	2.28	0.43
2:B:391:ARG:NE	2:B:618:ARG:HH21	2.16	0.43
2:B:621:ARG:NH2	2:B:682:GLU:CD	2.71	0.43
2:B:874:MET:HG3	2:B:879:TYR:OH	2.15	0.43
2:B:1002:ASN:OD1	2:B:1003:PRO:HD2	2.18	0.43
2:B:1044:VAL:O	2:B:1047:LEU:HB2	2.19	0.43
3:C:50:ILE:HD12	3:C:50:ILE:O	2.19	0.43
4:D:25:LEU:HD12	7:G:5:LEU:CA	2.48	0.43
5:E:156:LYS:HG3	5:E:190:VAL:HG21	2.00	0.43
5:E:166:ARG:C	5:E:168:THR:N	2.71	0.43
7:G:100:PHE:CA	7:G:111:VAL:HG12	2.48	0.43
7:G:150:GLY:C	7:G:160:ALA:HB1	2.32	0.43
10:J:43:TYR:HB2	10:J:44:CYS:CB	2.47	0.43
1:M:146:THR:O	1:M:148:MET:HE3	2.18	0.43
1:M:324:SER:O	1:M:326:ARG:HG2	2.18	0.43
1:M:537:VAL:HG12	1:M:623:VAL:O	2.18	0.43
1:M:605:ASN:ND2	8:T:26:ARG:NH1	2.66	0.43
1:M:684:GLU:HG2	1:M:684:GLU:O	2.19	0.43
1:M:740:GLU:C	1:M:742:SER:H	2.20	0.43
1:M:764:ILE:H	1:M:764:ILE:HG12	1.58	0.43
1:M:1006:SER:HA	1:M:1007:ASP:HB3	1.99	0.43
1:M:1388:MET:HE1	1:M:1395:ILE:HD13	2.00	0.43
1:M:1497:VAL:O	1:M:1500:PRO:CD	2.65	0.43
2:N:220:ALA:O	2:N:221:TYR:CG	2.70	0.43
2:N:391:ARG:HH12	2:N:615:ASP:HB3	1.83	0.43
2:N:396:GLY:O	2:N:398:LEU:N	2.50	0.43
2:N:423:GLU:C	2:N:424:THR:CG2	2.87	0.43
2:N:1073:GLN:NE2	3:O:192:TYR:HA	2.33	0.43
2:N:1113:ARG:CA	2:N:1114:ASP:HB2	2.38	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:69:ILE:HA	3:O:70:PRO:HD3	1.82	0.43
3:O:241:PRO:O	3:O:242:ASN:CB	2.66	0.43
6:R:106:ASP:O	6:R:110:ILE:HG22	2.18	0.43
7:S:24:GLN:O	7:S:28:LYS:HG3	2.18	0.43
9:U:49:GLN:HE21	9:U:51:SER:H	1.66	0.43
1:A:121:ASN:HB3	1:A:124:PHE:HD2	1.83	0.43
1:A:151:ASP:HB2	1:A:172:HIS:NE2	2.33	0.43
1:A:764:ILE:H	1:A:764:ILE:HG12	1.59	0.43
1:A:775:ILE:CG1	1:A:1089:TYR:CD2	2.91	0.43
1:A:793:PHE:O	1:A:794:PRO:O	2.36	0.43
1:A:1109:ASN:C	1:A:1111:ALA:N	2.70	0.43
3:C:34:ARG:HH12	11:K:39:HIS:HB2	1.83	0.43
6:F:65:ALA:C	6:F:67:GLU:N	2.69	0.43
7:G:24:GLN:O	7:G:28:LYS:HG3	2.18	0.43
8:H:100:LEU:O	8:H:101:LEU:HD23	2.17	0.43
9:I:49:GLN:HE21	9:I:51:SER:H	1.66	0.43
10:J:46:ARG:O	10:J:46:ARG:HG3	2.13	0.43
1:M:63:ILE:O	1:M:63:ILE:CG1	2.66	0.43
1:M:141:TRP:C	1:M:144:CYS:SG	2.96	0.43
1:M:336:LYS:CG	1:M:1410:GLU:OE1	2.66	0.43
1:M:359:ILE:HD12	1:M:359:ILE:C	2.39	0.43
1:M:433:ARG:HG2	1:M:434:TYR:H	1.83	0.43
1:M:506:GLU:C	1:M:508:GLN:H	2.22	0.43
1:M:593:ASN:HD22	1:M:593:ASN:N	2.15	0.43
1:M:740:GLU:OE2	1:M:764:ILE:CB	2.57	0.43
1:M:966:ILE:HD12	1:M:1048:ILE:HG23	1.99	0.43
1:M:1048:ILE:C	1:M:1050:GLY:N	2.71	0.43
1:M:1122:TYR:C	1:M:1123:LEU:HD13	2.37	0.43
1:M:1183:GLU:O	1:M:1185:GLU:N	2.51	0.43
1:M:1439:LEU:CA	2:N:1137:ARG:HD2	2.44	0.43
2:N:402:LEU:HD13	2:N:452:TRP:HZ3	1.79	0.43
2:N:840:PHE:HB3	2:N:1083:ARG:HG3	2.01	0.43
2:N:1027:SER:HB2	2:N:1029:PHE:HD1	1.82	0.43
2:N:1189:LYS:HE2	2:N:1193:GLN:HE22	1.83	0.43
3:O:50:ILE:HD12	3:O:50:ILE:O	2.19	0.43
7:S:135:ASP:N	7:S:135:ASP:OD2	2.51	0.43
11:W:42:ALA:HB1	11:W:60:TYR:CD1	2.53	0.43
1:A:59:ARG:CB	1:A:60:LEU:HA	2.40	0.43
1:A:62:THR:HG1	1:A:69:CYS:HB3	1.83	0.43
1:A:83:PHE:CZ	2:B:1193:GLN:O	2.65	0.43
1:A:96:GLY:O	1:A:98:LEU:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:225:LEU:O	1:A:230:LEU:HB2	2.18	0.43
1:A:956:ARG:HE	1:A:956:ARG:HB2	1.57	0.43
1:A:1066:MET:CE	1:A:1442:MET:CA	2.84	0.43
1:A:1177:PHE:C	1:A:1180:PRO:CD	2.85	0.43
1:A:1195:LEU:CD2	1:A:1242:ARG:NE	2.64	0.43
2:B:89:MET:HA	2:B:89:MET:CE	2.48	0.43
2:B:353:MET:HB2	2:B:356:PHE:CD1	2.53	0.43
2:B:363:PHE:HZ	2:B:572:TRP:H	1.66	0.43
2:B:921:HIS:HA	2:B:922:ALA:HA	1.69	0.43
2:B:1012:VAL:O	2:B:1012:VAL:HG12	2.18	0.43
2:B:1205:PHE:HD2	2:B:1210:LYS:CB	2.26	0.43
4:D:11:ALA:CB	4:D:13:LEU:N	2.81	0.43
7:G:45:TYR:O	7:G:79:LEU:HA	2.19	0.43
8:H:47:TYR:OH	8:H:125:ARG:HB2	2.18	0.43
11:K:54:ARG:HE	11:K:54:ARG:HB3	1.61	0.43
1:M:100:LYS:NZ	1:M:1420:ALA:HB1	2.34	0.43
1:M:110:TRP:HA	1:M:111:ASN:HA	1.51	0.43
1:M:459:MET:HE3	1:M:459:MET:HB3	1.89	0.43
1:M:476:LEU:C	1:M:476:LEU:HD12	2.38	0.43
1:M:775:ILE:HD12	1:M:775:ILE:N	2.33	0.43
1:M:793:PHE:O	1:M:794:PRO:O	2.36	0.43
1:M:1071:ALA:HA	1:M:1373:HIS:CG	2.54	0.43
1:M:1166:ILE:CD1	1:M:1169:ASP:O	2.63	0.43
1:M:1320:THR:C	1:M:1322:ALA:N	2.72	0.43
2:N:56:LEU:HG	2:N:415:TYR:HD1	1.84	0.43
2:N:401:SER:HA	2:N:404:ARG:HH12	1.77	0.43
2:N:492:GLY:HA3	2:N:493:LYS:HA	1.49	0.43
2:N:685:VAL:HG11	2:N:729:HIS:CE1	2.53	0.43
2:N:829:ILE:O	2:N:829:ILE:HG13	2.18	0.43
2:N:1012:VAL:O	2:N:1012:VAL:HG12	2.18	0.43
2:N:1189:LYS:HE2	2:N:1193:GLN:CD	2.38	0.43
4:P:25:LEU:HD12	7:S:5:LEU:CA	2.48	0.43
4:P:101:ALA:O	4:P:102:GLU:C	2.57	0.43
5:Q:30:SER:C	5:Q:32:ALA:N	2.72	0.43
7:S:66:GLN:O	7:S:68:PHE:CD1	2.71	0.43
7:S:135:ASP:O	7:S:136:GLN:C	2.55	0.43
8:T:80:VAL:CG2	8:T:95:VAL:HG22	2.45	0.43
8:T:93:VAL:H	8:T:104:ILE:HG13	1.83	0.43
9:U:97:MET:C	9:U:99:LEU:N	2.71	0.43
1:A:9:SER:HG	1:A:10:SER:H	1.66	0.43
1:A:39:PHE:HD1	1:A:39:PHE:HA	1.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:254:PRO:CG	2:B:1103:LEU:HD21	2.48	0.43
1:A:348:GLY:O	2:B:1118:ARG:NH1	2.52	0.43
1:A:359:ILE:HD12	1:A:359:ILE:C	2.39	0.43
1:A:462:MET:HG2	1:A:484:TYR:OH	2.19	0.43
1:A:537:VAL:HG12	1:A:623:VAL:O	2.18	0.43
1:A:724:VAL:C	1:A:726:ARG:N	2.72	0.43
1:A:1071:ALA:HA	1:A:1373:HIS:CG	2.54	0.43
1:A:1167:GLU:O	1:A:1167:GLU:OE2	2.37	0.43
1:A:1218:LYS:HG2	1:A:1221:GLU:OE1	2.19	0.43
1:A:1442:MET:O	1:A:1444:THR:N	2.49	0.43
2:B:40:GLU:HA	2:B:42:VAL:O	2.19	0.43
2:B:177:LEU:O	2:B:178:ASN:HB2	2.18	0.43
2:B:194:GLU:H	2:B:194:GLU:HG2	1.62	0.43
2:B:218:PRO:HG2	2:B:219:ILE:H	1.82	0.43
2:B:328:GLY:C	2:B:329:VAL:HG12	2.38	0.43
2:B:399:LEU:HD23	2:B:402:LEU:CD1	2.45	0.43
2:B:1170:CYS:HB2	2:B:1175:ASN:H	1.83	0.43
5:E:78:LYS:O	5:E:80:PRO:HD3	2.19	0.43
7:G:135:ASP:OD2	7:G:135:ASP:N	2.51	0.43
8:H:62:ASN:HB3	8:H:63:LEU:CD1	2.48	0.43
8:H:80:VAL:CG2	8:H:95:VAL:HG22	2.45	0.43
12:L:55:LYS:CB	12:L:56:ARG:HA	2.31	0.43
1:M:48:GLN:HG2	1:M:50:PRO:CD	2.46	0.43
1:M:55:LEU:O	1:M:60:LEU:HD12	2.18	0.43
1:M:181:THR:O	1:M:191:GLY:HA2	2.18	0.43
1:M:244:VAL:O	1:M:245:LEU:O	2.35	0.43
1:M:432:LEU:HD23	1:M:436:TRP:CE2	2.52	0.43
1:M:532:ASP:OD2	2:N:824:GLN:NE2	2.51	0.43
1:M:563:ASP:HB3	1:M:565:ILE:HG12	1.99	0.43
1:M:602:SER:C	1:M:604:SER:N	2.71	0.43
1:M:1140:GLN:HG2	1:M:1280:ARG:HD3	1.99	0.43
1:M:1163:ASP:C	1:M:1164:THR:CG2	2.86	0.43
1:M:1504:ALA:C	1:M:1507:PRO:CG	2.87	0.43
2:N:233:SER:OG	2:N:234:ARG:N	2.52	0.43
2:N:353:MET:HB2	2:N:356:PHE:CD1	2.53	0.43
2:N:406:LEU:HD23	2:N:406:LEU:HA	1.86	0.43
2:N:587:ARG:HH21	2:N:601:ILE:HD13	1.82	0.43
2:N:747:PHE:CE1	2:N:1033:ALA:CB	3.01	0.43
2:N:888:ILE:HG23	2:N:900:ILE:O	2.19	0.43
2:N:924:ARG:HH11	2:N:924:ARG:HG2	1.83	0.43
2:N:986:GLU:CD	2:N:986:GLU:N	2.69	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:21:LEU:HA	3:O:21:LEU:HD23	1.84	0.43
5:Q:80:PRO:O	5:Q:81:SER:O	2.36	0.43
8:T:43:ASN:CG	8:T:46:ILE:HG12	2.39	0.43
8:T:109:ARG:HA	8:T:110:LYS:HA	1.85	0.43
10:V:46:ARG:C	10:V:48:MET:H	2.21	0.43
1:A:23:ILE:O	1:A:23:ILE:HG22	2.17	0.43
1:A:237:PRO:C	1:A:239:TRP:N	2.71	0.43
1:A:383:PRO:HA	1:A:439:GLU:HG2	2.01	0.43
1:A:428:GLY:C	1:A:430:ILE:HG23	2.36	0.43
1:A:684:GLU:O	1:A:684:GLU:HG2	2.19	0.43
1:A:775:ILE:HD13	1:A:776:VAL:CA	2.47	0.43
1:A:775:ILE:HD12	1:A:775:ILE:N	2.33	0.43
1:A:1440:ALA:HA	1:A:1441:PRO:HD3	1.84	0.43
2:B:644:HIS:O	2:B:647:GLN:HB2	2.19	0.43
2:B:758:TYR:C	2:B:760:SER:H	2.18	0.43
2:B:901:ILE:HD11	2:B:928:THR:H	1.84	0.43
2:B:1185:PRO:O	2:B:1187:ALA:N	2.51	0.43
3:C:119:ALA:HA	3:C:145:ILE:HD11	2.01	0.43
4:D:99:GLU:HA	4:D:124:LEU:HD13	2.01	0.43
5:E:23:HIS:HA	5:E:25:ARG:N	2.34	0.43
5:E:82:VAL:HA	5:E:83:GLY:HA3	1.70	0.43
7:G:12:ILE:CG2	7:G:14:LEU:HD13	2.49	0.43
8:H:74:TYR:CE2	8:H:76:MET:CG	2.95	0.43
8:H:89:GLU:O	8:H:90:LYS:O	2.36	0.43
11:K:24:SER:OG	11:K:25:LYS:HB2	2.17	0.43
1:M:42:THR:CG2	1:M:55:LEU:HB2	2.39	0.43
1:M:62:THR:HG23	1:M:67:PHE:HB2	1.99	0.43
1:M:95:ILE:HG21	1:M:314:ILE:HG21	2.01	0.43
1:M:96:GLY:C	1:M:98:LEU:N	2.70	0.43
1:M:129:ARG:O	1:M:131:ARG:N	2.50	0.43
1:M:175:CYS:HB3	1:M:176:GLY:H	1.59	0.43
1:M:249:PRO:HB2	1:M:250:PRO:HD2	1.99	0.43
1:M:267:ASP:HB3	1:M:268:LEU:CD2	2.47	0.43
1:M:429:ASP:O	1:M:431:PRO:N	2.52	0.43
1:M:1167:GLU:O	1:M:1167:GLU:OE2	2.37	0.43
1:M:1218:LYS:HG2	1:M:1221:GLU:OE1	2.19	0.43
1:M:1403:LEU:CB	1:M:1432:GLU:HG3	2.47	0.43
2:N:40:GLU:HA	2:N:42:VAL:O	2.19	0.43
2:N:106:LEU:HA	2:N:954:LYS:HZ2	1.84	0.43
2:N:225:ILE:O	2:N:227:SER:N	2.52	0.43
2:N:562:ASN:CA	2:N:563:ALA:HB3	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:659:PRO:CD	2:N:661:GLN:HE21	2.32	0.43
2:N:677:LEU:HB3	2:N:682:GLU:OE1	2.17	0.43
2:N:1002:ASN:OD1	2:N:1003:PRO:HD2	2.18	0.43
2:N:1185:PRO:O	2:N:1187:ALA:N	2.51	0.43
3:O:69:ILE:HD12	3:O:70:PRO:CD	2.49	0.43
4:P:19:PHE:HE1	7:S:42:GLN:O	1.98	0.43
4:P:80:ILE:HD13	4:P:130:LEU:HD11	1.90	0.43
4:P:132:LYS:CA	4:P:134:GLN:HB2	2.48	0.43
5:Q:23:HIS:HA	5:Q:25:ARG:N	2.34	0.43
6:R:115:LEU:HD22	6:R:115:LEU:HA	1.89	0.43
7:S:147:LYS:O	7:S:148:ILE:C	2.57	0.43
1:A:39:PHE:O	1:A:42:THR:N	2.52	0.43
1:A:341:ARG:NH1	2:B:1194:GLU:OE1	2.51	0.43
1:A:708:LEU:HD12	1:A:708:LEU:HA	1.83	0.43
1:A:997:ILE:O	1:A:1000:LEU:HG	2.19	0.43
1:A:1434:ILE:C	2:B:1141:PHE:HZ	2.22	0.43
2:B:659:PRO:HA	2:B:661:GLN:N	2.26	0.43
2:B:713:ALA:O	2:B:714:GLN:HG3	2.19	0.43
2:B:888:ILE:HD13	2:B:900:ILE:CG2	2.48	0.43
2:B:888:ILE:HG23	2:B:900:ILE:O	2.19	0.43
2:B:973:HIS:HE1	2:B:1017:GLU:OE1	2.00	0.43
4:D:97:CYS:HB2	4:D:131:ARG:HH22	1.84	0.43
5:E:128:GLU:CA	5:E:129:THR:HB	2.48	0.43
7:G:54:THR:HB	7:G:76:ARG:CD	2.48	0.43
9:I:97:MET:C	9:I:99:LEU:N	2.72	0.43
11:K:70:PHE:CD1	11:K:70:PHE:C	2.92	0.43
1:M:121:ASN:HB3	1:M:124:PHE:HD2	1.83	0.43
1:M:579:THR:CG2	1:M:582:GLN:HB2	2.42	0.43
1:M:1264:VAL:C	1:M:1266:LEU:N	2.72	0.43
1:M:1317:ILE:HB	1:M:1318:ASN:CB	2.43	0.43
1:M:1449:ILE:O	7:S:61:ARG:HA	2.19	0.43
2:N:147:PRO:HB2	2:N:148:SER:H	1.68	0.43
2:N:644:HIS:O	2:N:647:GLN:HB2	2.19	0.43
2:N:828:ILE:O	2:N:979:ILE:HA	2.19	0.43
4:P:51:MET:HE1	4:P:55:MET:CE	2.42	0.43
5:Q:128:GLU:CA	5:Q:129:THR:HB	2.48	0.43
6:R:137:SER:HG	6:R:140:GLU:HB2	1.81	0.43
8:T:47:TYR:OH	8:T:125:ARG:HB2	2.18	0.43
9:U:96:MET:O	9:U:97:MET:HG3	2.18	0.43
1:A:96:GLY:C	1:A:98:LEU:N	2.73	0.43
1:A:249:PRO:CB	1:A:250:PRO:HD2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:266:ASP:O	1:A:269:THR:CB	2.66	0.43
1:A:863:ARG:HG2	1:A:869:ILE:CG2	2.46	0.43
1:A:880:ASP:CA	1:A:1061:VAL:HB	2.49	0.43
1:A:934:GLU:O	1:A:938:LEU:HG	2.19	0.43
1:A:1052:VAL:O	1:A:1053:GLU:C	2.57	0.43
1:A:1188:LEU:C	1:A:1189:TYR:HD1	2.22	0.43
1:A:1327:GLY:HA3	1:A:1328:VAL:HA	1.66	0.43
2:B:687:ILE:HA	2:B:729:HIS:O	2.19	0.43
2:B:757:THR:HG22	2:B:758:TYR:CD2	2.54	0.43
2:B:798:MET:C	2:B:800:TYR:N	2.72	0.43
2:B:888:ILE:HD12	2:B:938:VAL:HG21	2.01	0.43
3:C:241:PRO:O	3:C:242:ASN:CB	2.66	0.43
5:E:107:ALA:HA	5:E:108:ASN:HA	1.41	0.43
5:E:132:GLU:O	5:E:134:ASP:N	2.52	0.43
6:F:64:VAL:HG23	6:F:132:SER:HB2	2.00	0.43
6:F:141:LEU:C	6:F:142:ILE:HG12	2.39	0.43
8:H:11:PHE:HB3	8:H:29:ALA:HB1	2.01	0.43
8:H:71:ALA:O	8:H:72:ALA:HB3	2.18	0.43
8:H:72:ALA:HB1	8:H:123:LEU:C	2.35	0.43
9:I:20:LYS:CD	9:I:21:VAL:N	2.44	0.43
10:J:49:ILE:HD12	10:J:49:ILE:N	2.33	0.43
1:M:317:GLN:H	1:M:318:PRO:CD	2.32	0.43
1:M:380:LEU:HB3	1:M:381:THR:H	1.63	0.43
1:M:467:ARG:O	1:M:467:ARG:HD3	2.18	0.43
1:M:510:ILE:CD1	2:N:1132:CYS:SG	3.05	0.43
1:M:520:PRO:HB3	1:M:882:THR:CA	2.48	0.43
1:M:549:ARG:NH2	11:W:50:LEU:HD11	2.33	0.43
1:M:553:MET:HE1	11:W:58:ALA:HB3	2.01	0.43
1:M:775:ILE:CD1	1:M:776:VAL:N	2.65	0.43
1:M:1170:LYS:HZ3	1:M:1238:LYS:HG3	1.83	0.43
2:N:300:MET:C	2:N:302:PRO:HD2	2.38	0.43
2:N:721:ASN:HA	2:N:722:PRO:HD3	1.85	0.43
2:N:942:MET:HB2	12:X:50:TYR:HE2	1.81	0.43
5:Q:78:LYS:O	5:Q:80:PRO:HD3	2.19	0.43
5:Q:113:SER:O	5:Q:117:ILE:HG12	2.19	0.43
8:T:11:PHE:HB3	8:T:29:ALA:HB1	2.01	0.43
1:A:91:PRO:HB2	1:A:210:PRO:HG2	2.01	0.43
1:A:467:ARG:O	1:A:467:ARG:HD3	2.18	0.43
1:A:549:ARG:NH1	11:K:50:LEU:HD11	2.34	0.43
1:A:563:ASP:CB	1:A:565:ILE:HG12	2.49	0.43
1:A:1338:PHE:CA	1:A:1341:ILE:HG13	2.45	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:198:ILE:HG23	2:B:483:ARG:O	2.19	0.43
2:B:225:ILE:O	2:B:227:SER:N	2.52	0.43
2:B:387:PHE:HD2	2:B:503:THR:CG2	2.32	0.43
2:B:495:ALA:O	2:B:496:LYS:O	2.37	0.43
2:B:1027:SER:HB2	2:B:1029:PHE:HD1	1.82	0.43
3:C:69:ILE:O	3:C:69:ILE:HG13	2.19	0.43
3:C:103:LEU:HB2	3:C:158:CYS:HB2	2.01	0.43
4:D:84:ARG:HA	4:D:90:ARG:NH1	2.34	0.43
5:E:30:SER:C	5:E:32:ALA:H	2.22	0.43
6:F:106:ASP:O	6:F:110:ILE:HG22	2.18	0.43
11:K:55:VAL:HG12	11:K:57:PHE:H	1.84	0.43
1:M:9:SER:HG	1:M:10:SER:H	1.67	0.43
1:M:24:LEU:H	2:N:1200:ILE:HA	1.84	0.43
1:M:39:PHE:O	1:M:42:THR:N	2.52	0.43
1:M:158:SER:O	1:M:158:SER:OG	2.33	0.43
1:M:163:LEU:HA	1:M:164:SER:HA	1.88	0.43
1:M:199:GLU:O	1:M:200:SER:OG	2.36	0.43
1:M:341:ARG:NH1	2:N:1194:GLU:OE1	2.51	0.43
1:M:395:GLN:HA	1:M:432:LEU:HD11	2.00	0.43
1:M:462:MET:HG2	1:M:484:TYR:OH	2.19	0.43
1:M:880:ASP:CA	1:M:1061:VAL:HB	2.49	0.43
1:M:1338:PHE:CA	1:M:1341:ILE:HG13	2.45	0.43
2:N:968:LYS:HD2	2:N:1086:HIS:HE1	1.84	0.43
2:N:985:HIS:CE1	2:N:996:VAL:CG1	2.98	0.43
3:O:212:GLU:CB	3:O:213:PRO:CA	2.85	0.43
4:P:84:ARG:HA	4:P:90:ARG:NH1	2.34	0.43
5:Q:77:ALA:CB	5:Q:78:LYS:CA	2.97	0.43
7:S:138:ILE:CD1	7:S:171:VAL:CG2	2.95	0.43
9:U:5:GLN:C	9:U:14:LEU:CD1	2.77	0.43
1:A:43:MET:H	1:A:55:LEU:HG	1.84	0.42
1:A:108:VAL:HG11	1:A:113:GLY:HA2	1.81	0.42
1:A:129:ARG:O	1:A:131:ARG:N	2.50	0.42
1:A:317:GLN:H	1:A:318:PRO:CD	2.32	0.42
1:A:728:LEU:HB3	1:A:805:PHE:CE1	2.54	0.42
1:A:773:GLN:HB2	1:A:804:GLY:O	2.19	0.42
1:A:1444:THR:HG23	2:B:1133:SER:OG	2.18	0.42
2:B:387:PHE:HD2	2:B:503:THR:HG22	1.83	0.42
2:B:398:LEU:HA	2:B:398:LEU:HD23	1.81	0.42
3:C:136:ALA:CB	10:J:16:ASP:OD1	2.67	0.42
7:G:114:HIS:CD2	7:G:115:LEU:CG	3.02	0.42
8:H:19:GLN:O	8:H:21:TYR:HD1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:102:LYS:HE2	1:M:189:LEU:HG	2.01	0.42
1:M:141:TRP:CA	1:M:144:CYS:SG	3.04	0.42
1:M:178:ALA:HA	1:M:180:PRO:HD2	1.99	0.42
1:M:256:ILE:HD13	1:M:256:ILE:HA	1.73	0.42
1:M:266:ASP:O	1:M:269:THR:CB	2.66	0.42
1:M:350:ARG:O	1:M:351:VAL:CG2	2.67	0.42
1:M:395:GLN:HG3	1:M:432:LEU:CD1	2.45	0.42
1:M:442:ILE:H	1:M:442:ILE:HG12	1.51	0.42
1:M:827:ARG:HG2	1:M:827:ARG:O	2.19	0.42
1:M:853:ASP:HB3	1:M:864:ASN:HD22	1.81	0.42
1:M:997:ILE:O	1:M:1000:LEU:HG	2.19	0.42
1:M:1052:VAL:O	1:M:1053:GLU:C	2.57	0.42
1:M:1076:GLY:N	1:M:1078:PRO:HD2	2.34	0.42
1:M:1083:THR:HB	1:M:1101:VAL:CG2	2.49	0.42
1:M:1401:GLY:O	1:M:1405:ARG:NE	2.51	0.42
2:N:30:LEU:CD2	2:N:482:ARG:NH2	2.82	0.42
2:N:242:LYS:HB3	2:N:244:MET:SD	2.59	0.42
2:N:753:SER:O	2:N:756:ASN:N	2.51	0.42
2:N:757:THR:HG22	2:N:758:TYR:CD2	2.54	0.42
2:N:812:ALA:O	2:N:814:VAL:HG23	2.19	0.42
2:N:814:VAL:CG1	2:N:815:ALA:N	2.82	0.42
2:N:1105:ARG:HG3	2:N:1186:TYR:CE2	2.54	0.42
3:O:207:ASN:ND2	3:O:230:TYR:CD2	2.85	0.42
4:P:69:LYS:C	4:P:70:THR:HG23	2.32	0.42
5:Q:30:SER:C	5:Q:32:ALA:H	2.22	0.42
6:R:64:VAL:HG23	6:R:132:SER:HB2	2.00	0.42
6:R:66:LYS:O	6:R:69:ARG:NH1	2.50	0.42
6:R:106:ASP:HB3	6:R:109:GLN:HB2	2.01	0.42
7:S:100:PHE:CZ	7:S:131:TYR:HB2	2.53	0.42
7:S:100:PHE:CA	7:S:111:VAL:HG12	2.48	0.42
1:A:155:SER:C	1:A:169:ASN:HA	2.36	0.42
1:A:193:TRP:CH2	1:A:206:ARG:HB3	2.53	0.42
1:A:230:LEU:CD1	1:A:237:PRO:HG2	2.39	0.42
1:A:391:ILE:HD13	1:A:434:TYR:CZ	2.55	0.42
1:A:532:ASP:OD2	2:B:824:GLN:NE2	2.51	0.42
1:A:558:TRP:CZ3	1:A:661:TYR:CD1	3.08	0.42
1:A:559:VAL:N	1:A:560:PRO:CA	2.82	0.42
1:A:605:ASN:ND2	8:H:26:ARG:NH1	2.66	0.42
1:A:773:GLN:HB2	1:A:805:PHE:HA	2.01	0.42
1:A:887:GLN:HG2	1:A:1024:LEU:HD11	2.00	0.42
1:A:963:VAL:O	1:A:965:ARG:N	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1020:LEU:HD23	1:A:1023:ILE:HD11	2.01	0.42
1:A:1091:GLY:CA	1:A:1092:VAL:CG2	2.95	0.42
1:A:1096:ASN:O	1:A:1097:VAL:C	2.56	0.42
1:A:1104:LEU:HD11	1:A:1108:LEU:CG	2.49	0.42
1:A:1117:PRO:O	1:A:1118:SER:C	2.53	0.42
1:A:1295:ILE:CG2	1:A:1309:GLU:CG	2.97	0.42
1:A:1348:GLU:CG	5:E:207:ARG:HH12	2.28	0.42
1:A:1382:THR:HG23	1:A:1382:THR:O	2.18	0.42
2:B:216:PRO:CD	2:B:217:SER:HB3	2.49	0.42
2:B:465:VAL:O	2:B:466:SER:CB	2.67	0.42
2:B:579:PRO:HB2	2:B:603:ARG:NH2	2.33	0.42
2:B:641:ARG:N	2:B:644:HIS:HD2	2.08	0.42
2:B:721:ASN:HA	2:B:722:PRO:HD3	1.85	0.42
2:B:728:THR:HG23	2:B:729:HIS:H	1.84	0.42
2:B:795:THR:C	2:B:797:SER:H	2.22	0.42
3:C:33:ARG:HH21	3:C:179:PHE:CB	2.30	0.42
6:F:66:LYS:O	6:F:69:ARG:NH1	2.50	0.42
7:G:147:LYS:O	7:G:148:ILE:C	2.57	0.42
8:H:62:ASN:CB	8:H:63:LEU:HB2	2.24	0.42
9:I:65:ASP:O	9:I:67:THR:N	2.52	0.42
1:M:23:ILE:CD1	1:M:1419:ALA:O	2.67	0.42
1:M:57:ASP:O	1:M:59:ARG:CA	2.67	0.42
1:M:236:ARG:N	1:M:239:TRP:CZ3	2.85	0.42
1:M:259:ASP:HA	1:M:260:GLY:HA2	1.54	0.42
1:M:563:ASP:CB	1:M:565:ILE:HG12	2.50	0.42
1:M:810:TYR:O	2:N:750:HIS:HD2	2.01	0.42
1:M:839:GLU:O	1:M:842:TYR:N	2.52	0.42
1:M:922:GLU:HB2	1:M:924:ASP:N	2.34	0.42
1:M:1125:PRO:CG	1:M:1129:ALA:HB2	2.45	0.42
1:M:1188:LEU:C	1:M:1189:TYR:HD1	2.22	0.42
1:M:1359:ARG:NH2	1:M:1371:TYR:CD1	2.76	0.42
2:N:35:LEU:H	2:N:158:MET:HE1	1.84	0.42
2:N:38:PHE:HD1	2:N:399:LEU:HD12	1.84	0.42
2:N:216:PRO:CD	2:N:217:SER:HB3	2.48	0.42
2:N:426:ARG:C	2:N:428:PHE:N	2.70	0.42
2:N:488:ILE:CD1	2:N:490:ARG:HG3	2.48	0.42
2:N:488:ILE:HD12	2:N:490:ARG:HG3	2.01	0.42
2:N:687:ILE:HA	2:N:729:HIS:O	2.19	0.42
2:N:869:SER:C	2:N:870:THR:HG23	2.38	0.42
2:N:1141:PHE:HD1	2:N:1185:PRO:CD	2.33	0.42
3:O:47:LEU:HD11	12:X:59:GLN:NE2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:O:69:ILE:O	3:O:69:ILE:HG13	2.19	0.42
3:O:172:SER:HB2	3:O:174:THR:HG22	2.01	0.42
3:O:243:GLU:O	3:O:244:ILE:C	2.57	0.42
5:Q:49:GLY:HA3	5:Q:51:ASN:N	2.34	0.42
5:Q:128:GLU:HA	5:Q:129:THR:HB	2.01	0.42
5:Q:156:LYS:HG3	5:Q:190:VAL:HG21	2.00	0.42
6:R:141:LEU:C	6:R:142:ILE:HG12	2.40	0.42
7:S:52:SER:O	7:S:54:THR:N	2.43	0.42
9:U:95:THR:O	9:U:96:MET:O	2.37	0.42
1:A:40:PRO:HB3	1:A:276:ILE:C	2.40	0.42
1:A:63:ILE:O	1:A:63:ILE:CG1	2.66	0.42
1:A:94:HIS:HE2	1:A:97:PHE:HD2	1.64	0.42
1:A:328:LEU:HD13	1:A:328:LEU:C	2.30	0.42
1:A:429:ASP:O	1:A:431:PRO:N	2.52	0.42
1:A:516:GLN:HE22	2:B:1130:HIS:HD2	1.60	0.42
1:A:602:SER:C	1:A:604:SER:N	2.72	0.42
1:A:642:GLU:HA	1:A:643:LYS:HA	1.68	0.42
1:A:795:LYS:HG3	9:I:68:LEU:HA	2.01	0.42
1:A:805:PHE:C	1:A:805:PHE:CD2	2.92	0.42
1:A:845:ARG:O	1:A:846:ARG:C	2.57	0.42
1:A:857:ARG:HH11	1:A:857:ARG:HG2	1.78	0.42
1:A:882:THR:HG23	1:A:883:LEU:HG	2.01	0.42
1:A:1320:THR:C	1:A:1322:ALA:N	2.72	0.42
2:B:242:LYS:HB3	2:B:244:MET:SD	2.59	0.42
2:B:812:ALA:O	2:B:814:VAL:HG23	2.19	0.42
3:C:7:ILE:HA	3:C:20:VAL:O	2.19	0.42
4:D:52:THR:OG1	4:D:53:ASP:N	2.51	0.42
4:D:65:PHE:CE1	7:G:89:ASP:HB3	2.54	0.42
5:E:15:TRP:CE3	5:E:19:HIS:CE1	3.08	0.42
5:E:15:TRP:CE2	5:E:19:HIS:CE1	3.07	0.42
7:G:100:PHE:HZ	7:G:131:TYR:HB2	1.84	0.42
1:M:176:GLY:C	1:M:179:GLN:NE2	2.72	0.42
1:M:381:THR:CB	1:M:440:ARG:O	2.53	0.42
1:M:405:HIS:C	1:M:407:GLY:H	2.19	0.42
1:M:446:ASP:O	1:M:466:ILE:HG12	2.20	0.42
1:M:558:TRP:HD1	1:M:657:ARG:HD3	1.84	0.42
1:M:724:VAL:C	1:M:726:ARG:N	2.72	0.42
1:M:934:GLU:O	1:M:938:LEU:HG	2.19	0.42
1:M:1010:THR:HA	5:Q:162:ARG:NH2	2.35	0.42
2:N:465:VAL:O	2:N:466:SER:CB	2.67	0.42
2:N:697:SER:HB3	2:N:721:ASN:HD22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:901:ILE:HD11	2:N:928:THR:H	1.84	0.42
3:O:26:LEU:O	3:O:29:ALA:HB3	2.19	0.42
3:O:61:PHE:CD2	3:O:61:PHE:O	2.73	0.42
3:O:103:LEU:HB2	3:O:158:CYS:HB2	2.01	0.42
3:O:197:ASP:O	3:O:200:ALA:HB3	2.18	0.42
4:P:86:HIS:HD2	4:P:89:GLU:OE1	2.02	0.42
5:Q:132:GLU:O	5:Q:134:ASP:N	2.52	0.42
7:S:100:PHE:HZ	7:S:131:TYR:HB2	1.85	0.42
7:S:114:HIS:CD2	7:S:115:LEU:CG	3.02	0.42
8:T:33:GLN:C	8:T:35:ASP:N	2.72	0.42
11:W:57:PHE:CD2	11:W:73:ARG:HG2	2.53	0.42
1:A:86:ILE:O	1:A:86:ILE:CG2	2.52	0.42
1:A:88:LEU:HG	1:A:243:THR:C	2.38	0.42
1:A:118:ASP:HB2	1:A:120:SER:CA	2.50	0.42
1:A:163:LEU:N	1:A:165:ASN:N	2.68	0.42
1:A:431:PRO:HB2	1:A:432:LEU:H	1.63	0.42
1:A:446:ASP:O	1:A:466:ILE:HG12	2.20	0.42
1:A:478:LEU:H	1:A:478:LEU:HG	1.68	0.42
1:A:492:GLU:OE2	2:B:1091:LYS:HD3	2.19	0.42
1:A:526:VAL:O	1:A:526:VAL:CG1	2.67	0.42
1:A:529:ILE:HG22	1:A:534:LEU:HG	2.01	0.42
1:A:558:TRP:HD1	1:A:657:ARG:HD3	1.84	0.42
1:A:670:ILE:HG22	1:A:748:ASN:CB	2.30	0.42
1:A:846:ARG:HD2	1:A:1391:THR:C	2.40	0.42
1:A:908:MET:HG3	1:A:909:GLU:HG3	2.00	0.42
1:A:1004:ARG:HA	1:A:1005:GLY:HA2	1.59	0.42
1:A:1076:GLY:N	1:A:1078:PRO:HD2	2.34	0.42
1:A:1083:THR:HB	1:A:1101:VAL:CG2	2.49	0.42
1:A:1091:GLY:HA2	1:A:1092:VAL:CB	2.39	0.42
1:A:1170:LYS:HZ1	1:A:1238:LYS:CG	2.33	0.42
1:A:1487:GLU:OE2	4:D:43:ARG:CG	2.67	0.42
2:B:35:LEU:H	2:B:158:MET:HE1	1.84	0.42
2:B:388:GLY:H	2:B:503:THR:HG21	1.84	0.42
2:B:508:VAL:CG1	2:B:737:ILE:HG22	2.50	0.42
2:B:510:PRO:HB2	2:B:511:ALA:H	1.47	0.42
2:B:532:SER:O	2:B:616:ALA:HB1	2.20	0.42
2:B:840:PHE:HB3	2:B:1083:ARG:HG3	2.01	0.42
2:B:1073:GLN:NE2	3:C:192:TYR:HA	2.33	0.42
2:B:1158:ILE:O	2:B:1158:ILE:HG13	2.18	0.42
2:B:1192:PHE:CD2	2:B:1202:PRO:HB2	2.55	0.42
3:C:210:TRP:O	3:C:211:GLU:CG	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:80:ILE:HD13	4:D:130:LEU:HD11	1.91	0.42
5:E:49:GLY:HA3	5:E:51:ASN:N	2.34	0.42
5:E:113:SER:O	5:E:117:ILE:HG12	2.19	0.42
9:I:12:ASN:ND2	9:I:29:CYS:SG	2.83	0.42
9:I:91:ARG:CG	9:I:92:ARG:N	2.73	0.42
9:I:96:MET:O	9:I:97:MET:HG3	2.18	0.42
1:M:108:VAL:HB	1:M:113:GLY:HA2	2.01	0.42
1:M:194:LYS:NZ	1:M:202:LEU:HD21	2.34	0.42
1:M:271:LYS:O	1:M:274:ASP:N	2.52	0.42
1:M:376:ILE:O	1:M:379:THR:N	2.49	0.42
1:M:377:ALA:HA	1:M:442:ILE:CG1	2.49	0.42
1:M:480:VAL:CG1	1:M:484:TYR:HE1	2.32	0.42
1:M:589:PRO:O	1:M:592:ILE:CD1	2.67	0.42
1:M:770:CYS:C	1:M:771:VAL:CG2	2.84	0.42
1:M:846:ARG:HD3	1:M:1392:ARG:HA	2.02	0.42
1:M:964:GLN:O	1:M:964:GLN:HG2	2.19	0.42
1:M:1290:MET:HA	1:M:1311:VAL:O	2.20	0.42
2:N:155:ILE:CD1	2:N:403:PHE:CE1	2.85	0.42
2:N:380:GLU:OE2	9:U:91:ARG:N	2.52	0.42
2:N:394:LEU:CD1	2:N:531:VAL:HB	2.47	0.42
2:N:562:ASN:HA	2:N:563:ALA:CB	2.49	0.42
2:N:587:ARG:NH2	2:N:601:ILE:HD11	2.28	0.42
2:N:591:ARG:HB3	2:N:672:GLY:CA	2.50	0.42
2:N:795:THR:C	2:N:797:SER:H	2.22	0.42
2:N:1158:ILE:O	2:N:1158:ILE:HG13	2.18	0.42
2:N:1199:ASN:N	2:N:1199:ASN:ND2	2.67	0.42
4:P:65:PHE:CE1	7:S:89:ASP:HB3	2.54	0.42
4:P:99:GLU:HA	4:P:124:LEU:HD13	2.01	0.42
5:Q:177:ASP:C	5:Q:177:ASP:OD1	2.57	0.42
9:U:24:VAL:CG1	9:U:25:LEU:H	2.31	0.42
11:W:16:PRO:O	11:W:17:LYS:C	2.54	0.42
11:W:24:SER:H	11:W:25:LYS:C	2.22	0.42
11:W:57:PHE:O	11:W:74:VAL:HG13	2.20	0.42
1:A:25:SER:CA	1:A:239:TRP:CD1	3.03	0.42
1:A:101:ILE:CD1	1:A:217:PHE:HE2	2.22	0.42
1:A:425:LYS:HB3	1:A:426:ARG:H	1.62	0.42
1:A:452:ARG:NH1	1:A:486:ALA:HB1	2.35	0.42
1:A:480:VAL:CG1	1:A:484:TYR:HE1	2.32	0.42
1:A:506:GLU:OE2	2:B:1134:SER:HB2	2.20	0.42
1:A:666:ASN:OD1	2:B:1071:VAL:CG2	2.66	0.42
1:A:773:GLN:HB2	1:A:805:PHE:CA	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:816:PRO:HD3	2:B:1036:PHE:CD2	2.54	0.42
1:A:921:ILE:H	1:A:921:ILE:HG12	1.72	0.42
1:A:1083:THR:CB	1:A:1101:VAL:HB	2.49	0.42
1:A:1104:LEU:CD1	1:A:1104:LEU:O	2.64	0.42
1:A:1126:TRP:HA	1:A:1127:ILE:HA	1.75	0.42
1:A:1140:GLN:HG2	1:A:1280:ARG:HD3	2.01	0.42
1:A:1465:VAL:HG12	1:A:1466:PRO:CG	2.49	0.42
1:A:1496:PHE:CD2	4:D:33:LEU:HD11	2.51	0.42
2:B:30:LEU:CD2	2:B:482:ARG:NH2	2.83	0.42
2:B:262:ILE:N	2:B:262:ILE:CD1	2.82	0.42
2:B:396:GLY:O	2:B:398:LEU:N	2.52	0.42
2:B:443:LEU:HA	2:B:443:LEU:HD23	1.77	0.42
2:B:532:SER:HB3	2:B:618:ARG:H	1.85	0.42
2:B:648:LEU:HA	2:B:648:LEU:HD23	1.83	0.42
2:B:839:LEU:HD23	2:B:839:LEU:HA	1.54	0.42
3:C:39:GLU:OE2	3:C:166:LYS:NZ	2.49	0.42
3:C:243:GLU:O	3:C:244:ILE:C	2.57	0.42
5:E:15:TRP:CE2	5:E:19:HIS:HE1	2.38	0.42
7:G:15:HIS:CE1	7:G:16:PRO:HD2	2.55	0.42
8:H:43:ASN:CG	8:H:46:ILE:HG12	2.39	0.42
11:K:24:SER:H	11:K:25:LYS:C	2.22	0.42
11:K:25:LYS:HA	11:K:26:SER:HA	1.61	0.42
11:K:57:PHE:CD2	11:K:73:ARG:HG2	2.53	0.42
11:K:64:HIS:HA	11:K:65:PRO:HD3	1.82	0.42
1:M:25:SER:CA	1:M:239:TRP:CD1	3.03	0.42
1:M:121:ASN:N	1:M:122:PRO:CD	2.83	0.42
1:M:182:ILE:HA	1:M:191:GLY:HA2	2.01	0.42
1:M:288:GLU:HA	1:M:289:GLY:HA3	1.55	0.42
1:M:359:ILE:C	1:M:359:ILE:CD1	2.88	0.42
1:M:529:ILE:HG22	1:M:534:LEU:HG	2.01	0.42
1:M:795:LYS:HG3	9:U:68:LEU:HA	2.02	0.42
1:M:809:SER:C	1:M:811:LEU:N	2.72	0.42
1:M:844:GLN:HG2	2:N:1122:MET:HE2	2.02	0.42
1:M:887:GLN:HG2	1:M:1024:LEU:HD11	2.00	0.42
1:M:1328:VAL:N	1:M:1329:ASP:CA	2.80	0.42
2:N:243:LEU:HD12	2:N:371:MET:HE3	2.02	0.42
2:N:329:VAL:HA	2:N:330:THR:HA	1.49	0.42
2:N:505:TRP:CZ2	2:N:737:ILE:CD1	3.02	0.42
2:N:659:PRO:HA	2:N:661:GLN:N	2.26	0.42
2:N:1095:ARG:HD3	2:N:1096:ALA:N	2.28	0.42
3:O:124:VAL:HB	3:O:125:SER:H	1.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:15:TRP:CE2	5:Q:19:HIS:CE1	3.07	0.42
6:R:71:THR:HG21	6:R:126:ARG:HH11	1.84	0.42
6:R:75:MET:H	6:R:142:ILE:C	2.23	0.42
6:R:87:ARG:NH1	6:R:121:PRO:HD2	2.35	0.42
6:R:106:ASP:C	6:R:108:LEU:N	2.72	0.42
8:T:93:VAL:HB	8:T:104:ILE:CD1	2.43	0.42
8:T:116:LEU:HD12	8:T:116:LEU:N	2.35	0.42
1:A:11:VAL:HG11	2:B:1179:PHE:HB3	2.02	0.42
1:A:198:ASP:N	1:A:198:ASP:OD1	2.51	0.42
1:A:395:GLN:HA	1:A:432:LEU:CD1	2.50	0.42
1:A:448:VAL:HG22	1:A:449:ILE:N	2.35	0.42
1:A:457:HIS:HB3	1:A:459:MET:SD	2.60	0.42
1:A:839:GLU:O	1:A:842:TYR:N	2.52	0.42
1:A:922:GLU:HB2	1:A:924:ASP:N	2.35	0.42
1:A:947:LYS:N	1:A:947:LYS:CD	2.81	0.42
1:A:1131:MET:O	1:A:1134:ALA:N	2.52	0.42
1:A:1288:VAL:CG1	1:A:1289:TYR:H	2.33	0.42
2:B:180:CYS:C	2:B:182:TYR:N	2.73	0.42
2:B:505:TRP:CZ2	2:B:737:ILE:CD1	3.02	0.42
2:B:903:LYS:H	2:B:927:SER:HB3	1.84	0.42
3:C:67:GLY:HA3	3:C:170:LYS:HZ2	1.83	0.42
5:E:68:ASN:O	5:E:69:LYS:HG2	2.19	0.42
5:E:80:PRO:O	5:E:81:SER:O	2.36	0.42
7:G:46:ILE:HA	7:G:79:LEU:HD21	1.81	0.42
7:G:66:GLN:O	7:G:68:PHE:CD1	2.71	0.42
9:I:20:LYS:NZ	9:I:21:VAL:HG21	2.33	0.42
1:M:30:ARG:HG3	1:M:244:VAL:CG1	2.47	0.42
1:M:118:ASP:HB2	1:M:120:SER:CA	2.50	0.42
1:M:212:GLU:O	1:M:215:THR:OG1	2.30	0.42
1:M:214:HIS:HE1	1:M:238:ASP:O	2.03	0.42
1:M:332:ARG:HH11	1:M:332:ARG:CG	2.33	0.42
1:M:457:HIS:HB3	1:M:459:MET:SD	2.60	0.42
1:M:549:ARG:NH1	11:W:50:LEU:HD11	2.34	0.42
1:M:585:SER:HB3	1:M:618:ILE:H	1.85	0.42
1:M:605:ASN:CG	8:T:26:ARG:HH12	2.23	0.42
1:M:775:ILE:CG1	1:M:1089:TYR:HB2	2.48	0.42
2:N:198:ILE:HG23	2:N:483:ARG:O	2.19	0.42
2:N:327:THR:HB	2:N:328:GLY:H	1.58	0.42
2:N:657:ILE:N	2:N:657:ILE:CD1	2.81	0.42
2:N:767:MET:HE3	2:N:783:ASN:CG	2.40	0.42
2:N:839:LEU:HB3	2:N:840:PHE:CD1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1192:PHE:CD2	2:N:1202:PRO:HB2	2.55	0.42
4:P:97:CYS:HB2	4:P:131:ARG:HH22	1.83	0.42
8:T:60:THR:CG2	8:T:61:SER:H	2.19	0.42
8:T:116:LEU:N	8:T:116:LEU:CD1	2.83	0.42
11:W:76:THR:CA	11:W:77:VAL:CB	2.92	0.42
1:A:205:LYS:O	1:A:206:ARG:HB2	2.18	0.42
1:A:242:ILE:CD1	1:A:245:LEU:HD13	2.44	0.42
1:A:271:LYS:O	1:A:274:ASP:N	2.52	0.42
1:A:781:ILE:O	1:A:781:ILE:CG2	2.68	0.42
1:A:946:CYS:CA	1:A:947:LYS:C	2.88	0.42
1:A:1212:MET:HE3	1:A:1241:ILE:HD11	2.01	0.42
1:A:1295:ILE:HD13	1:A:1309:GLU:OE2	2.19	0.42
1:A:1483:GLY:HA2	4:D:43:ARG:NH1	2.35	0.42
2:B:828:ILE:O	2:B:979:ILE:HA	2.19	0.42
3:C:50:ILE:HG22	3:C:156:LEU:HD22	2.00	0.42
5:E:27:TYR:CD2	5:E:63:PRO:CG	2.73	0.42
5:E:198:GLU:H	5:E:199:THR:CA	2.33	0.42
7:G:3:PHE:CD1	7:G:80:TRP:CD1	2.99	0.42
11:K:36:LYS:HA	11:K:68:HIS:CD2	2.53	0.42
1:M:40:PRO:HB3	1:M:276:ILE:C	2.40	0.42
1:M:128:GLN:HB3	1:M:139:ALA:HB3	2.02	0.42
1:M:208:LEU:O	1:M:212:GLU:HB2	2.19	0.42
1:M:249:PRO:CB	1:M:250:PRO:HD2	2.49	0.42
1:M:566:LEU:HA	1:M:567:PRO:HD3	1.83	0.42
1:M:584:LEU:C	1:M:586:LEU:N	2.73	0.42
1:M:744:LYS:HD2	1:M:746:SER:OG	2.20	0.42
1:M:769:ALA:O	1:M:809:SER:HB3	2.20	0.42
1:M:946:CYS:CA	1:M:947:LYS:C	2.88	0.42
1:M:963:VAL:O	1:M:965:ARG:N	2.52	0.42
1:M:969:ASN:H	1:M:969:ASN:ND2	2.16	0.42
1:M:976:LEU:HD12	1:M:1041:ASN:ND2	2.35	0.42
1:M:1082:MET:C	1:M:1086:THR:HG23	2.39	0.42
1:M:1104:LEU:CD1	1:M:1104:LEU:O	2.64	0.42
1:M:1444:THR:HG22	2:N:1133:SER:H	1.82	0.42
2:N:562:ASN:HD21	2:N:608:LYS:CG	2.17	0.42
3:O:33:ARG:HH21	3:O:179:PHE:CB	2.30	0.42
4:P:52:THR:OG1	4:P:53:ASP:N	2.51	0.42
5:Q:68:ASN:O	5:Q:69:LYS:HG2	2.19	0.42
6:R:128:LEU:HB3	6:R:129:PRO:CD	2.50	0.42
7:S:150:GLY:C	7:S:160:ALA:HB1	2.32	0.42
8:T:89:GLU:CG	8:T:90:LYS:H	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:T:113:ARG:CG	8:T:114:LEU:H	2.32	0.42
11:W:55:VAL:HG12	11:W:57:PHE:H	1.84	0.42
1:A:17:GLU:CD	2:B:1207:LYS:HB2	2.40	0.42
1:A:59:ARG:HB2	1:A:60:LEU:CA	2.49	0.42
1:A:214:HIS:CE1	1:A:238:ASP:HB2	2.55	0.42
1:A:321:LEU:CD2	1:A:325:GLY:HA2	2.48	0.42
1:A:641:LYS:HE3	1:A:885:GLU:CD	2.40	0.42
1:A:1170:LYS:HZ3	1:A:1238:LYS:HG3	1.85	0.42
1:A:1201:ASP:C	1:A:1203:ALA:H	2.23	0.42
2:B:45:THR:O	2:B:49:ILE:HG23	2.20	0.42
2:B:376:LEU:O	2:B:377:GLU:HB3	2.20	0.42
2:B:426:ARG:HB3	2:B:427:GLU:H	1.52	0.42
2:B:591:ARG:HB3	2:B:672:GLY:CA	2.50	0.42
2:B:697:SER:HB3	2:B:721:ASN:HD22	1.84	0.42
2:B:875:LYS:O	2:B:876:HIS:C	2.58	0.42
3:C:42:THR:CG2	3:C:171:TRP:HB3	2.49	0.42
5:E:21:LEU:CD2	5:E:25:ARG:NE	2.82	0.42
5:E:175:LEU:O	5:E:177:ASP:N	2.52	0.42
6:F:71:THR:HG21	6:F:126:ARG:HH11	1.83	0.42
6:F:125:ARG:HA	6:F:134:GLU:O	2.20	0.42
6:F:128:LEU:HB3	6:F:129:PRO:CD	2.50	0.42
7:G:138:ILE:CD1	7:G:171:VAL:HG22	2.47	0.42
8:H:116:LEU:HD12	8:H:116:LEU:N	2.34	0.42
8:H:116:LEU:N	8:H:116:LEU:CD1	2.83	0.42
10:J:35:LEU:O	10:J:38:LEU:N	2.52	0.42
11:K:57:PHE:O	11:K:74:VAL:HG13	2.20	0.42
1:M:90:LYS:CE	1:M:282:VAL:CG1	2.92	0.42
1:M:116:LYS:HG3	1:M:143:VAL:CG1	2.50	0.42
1:M:261:THR:O	1:M:261:THR:OG1	2.30	0.42
1:M:482:SER:HB2	1:M:483:PRO:HD3	2.02	0.42
1:M:511:THR:O	1:M:512:MET:HG2	2.19	0.42
1:M:1083:THR:CB	1:M:1101:VAL:HB	2.49	0.42
1:M:1495:GLY:O	1:M:1498:GLY:O	2.38	0.42
1:M:1500:PRO:HG2	1:M:1501:ASP:H	1.83	0.42
2:N:212:LYS:HZ1	2:N:381:PRO:HG3	1.84	0.42
2:N:250:ASN:HA	2:N:251:SER:HA	1.63	0.42
2:N:330:THR:OG1	2:N:331:ARG:N	2.51	0.42
2:N:402:LEU:HD22	2:N:452:TRP:CZ3	2.55	0.42
2:N:854:LYS:NZ	2:N:860:MET:SD	2.92	0.42
2:N:856:GLY:CA	2:N:857:MET:HB2	2.49	0.42
2:N:1088:VAL:C	2:N:1090:ASP:N	2.73	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:1122:MET:HA	2:N:1122:MET:HE3	2.02	0.42
3:O:88:ARG:HD3	11:W:11:GLU:OE1	2.20	0.42
3:O:238:SER:OG	3:O:239:ILE:N	2.52	0.42
5:Q:116:LYS:C	5:Q:118:ILE:N	2.70	0.42
5:Q:175:LEU:O	5:Q:177:ASP:N	2.52	0.42
7:S:12:ILE:CG2	7:S:14:LEU:HD13	2.49	0.42
9:U:65:ASP:O	9:U:67:THR:N	2.52	0.42
9:U:73:LYS:CA	9:U:81:HIS:CD2	3.00	0.42
1:A:66:GLN:N	1:A:67:PHE:CD1	2.88	0.42
1:A:178:ALA:O	1:A:179:GLN:CD	2.58	0.42
1:A:332:ARG:HH11	1:A:332:ARG:CG	2.32	0.42
1:A:390:ASN:O	1:A:392:TYR:N	2.53	0.42
1:A:482:SER:HB2	1:A:483:PRO:HD3	2.02	0.42
1:A:816:PRO:HB2	2:B:689:MET:HE2	2.01	0.42
1:A:964:GLN:O	1:A:964:GLN:HG2	2.19	0.42
1:A:978:ALA:HA	1:A:1039:ARG:NH1	2.35	0.42
1:A:985:LEU:HD13	1:A:987:SER:H	1.85	0.42
1:A:1127:ILE:HA	1:A:1128:ALA:HA	1.71	0.42
1:A:1351:ARG:CB	1:A:1382:THR:HG21	2.42	0.42
1:A:1450:TYR:HE2	6:F:125:ARG:HD2	1.83	0.42
2:B:264:SER:H	2:B:322:LYS:NZ	2.17	0.42
2:B:654:ARG:HB3	2:B:655:TYR:C	2.36	0.42
2:B:659:PRO:CD	2:B:661:GLN:HE21	2.32	0.42
2:B:838:GLY:O	2:B:839:LEU:C	2.55	0.42
2:B:1039:VAL:O	2:B:1039:VAL:HG12	2.18	0.42
2:B:1101:GLN:HB2	2:B:1104:THR:HG23	2.02	0.42
2:B:1195:LEU:HD12	2:B:1202:PRO:HG3	2.02	0.42
2:B:1207:LYS:C	2:B:1209:HIS:H	2.24	0.42
4:D:108:ILE:HG22	4:D:108:ILE:O	2.20	0.42
5:E:30:SER:C	5:E:32:ALA:N	2.72	0.42
6:F:91:ILE:H	6:F:91:ILE:HG13	1.56	0.42
8:H:113:ARG:CG	8:H:114:LEU:H	2.32	0.42
9:I:79:HIS:CD2	9:I:80:GLN:NE2	2.82	0.42
9:I:95:THR:O	9:I:96:MET:O	2.37	0.42
9:I:96:MET:HB2	9:I:97:MET:H	1.59	0.42
1:M:2:SER:CB	7:S:65:GLY:HA3	2.44	0.42
1:M:506:GLU:OE2	2:N:1134:SER:HB2	2.20	0.42
1:M:708:LEU:CG	1:M:709:LYS:O	2.64	0.42
1:M:739:ALA:O	1:M:743:LEU:HG	2.19	0.42
1:M:772:GLY:HA3	1:M:773:GLN:HA	1.90	0.42
1:M:810:TYR:O	2:N:750:HIS:CD2	2.72	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1020:LEU:HD23	1:M:1023:ILE:HD11	2.01	0.42
1:M:1081:GLN:NE2	1:M:1368:TYR:CD2	2.78	0.42
1:M:1104:LEU:HD11	1:M:1108:LEU:CG	2.49	0.42
1:M:1202:ARG:HA	1:M:1205:MET:HB2	2.02	0.42
2:N:212:LYS:NZ	2:N:381:PRO:HG3	2.34	0.42
2:N:294:PHE:O	2:N:298:GLU:N	2.33	0.42
2:N:362:PHE:O	2:N:365:GLY:N	2.53	0.42
2:N:532:SER:O	2:N:616:ALA:HB1	2.20	0.42
2:N:747:PHE:N	2:N:748:PRO:HD3	2.35	0.42
2:N:778:MET:CA	2:N:956:ARG:HH21	2.32	0.42
2:N:875:LYS:O	2:N:876:HIS:C	2.58	0.42
2:N:1101:GLN:HB2	2:N:1104:THR:HG23	2.02	0.42
3:O:45:ILE:HG21	3:O:45:ILE:HD13	1.80	0.42
3:O:119:ALA:HA	3:O:145:ILE:HD11	2.01	0.42
5:Q:101:THR:CB	5:Q:126:THR:HG23	2.50	0.42
5:Q:166:ARG:O	5:Q:168:THR:N	2.53	0.42
6:R:80:ARG:HE	6:R:80:ARG:HB2	1.69	0.42
7:S:45:TYR:O	7:S:79:LEU:HA	2.18	0.42
8:T:72:ALA:HB1	8:T:123:LEU:C	2.35	0.42
10:V:44:CYS:H	10:V:46:ARG:H	1.68	0.42
1:A:48:GLN:HG2	1:A:50:PRO:CG	2.47	0.42
1:A:115:LEU:H	1:A:115:LEU:HD12	1.85	0.42
1:A:128:GLN:HB3	1:A:139:ALA:HB3	2.02	0.42
1:A:510:ILE:CD1	2:B:1132:CYS:SG	3.05	0.42
1:A:517:ILE:CD1	1:A:640:TRP:NE1	2.55	0.42
1:A:567:PRO:HG2	1:A:586:LEU:HD11	2.02	0.42
1:A:592:ILE:HG12	1:A:613:ILE:HD12	2.02	0.42
1:A:605:ASN:CG	8:H:26:ARG:HH12	2.23	0.42
1:A:963:VAL:C	1:A:965:ARG:N	2.74	0.42
1:A:1028:LYS:HB2	1:A:1028:LYS:HZ2	1.82	0.42
1:A:1119:LEU:O	1:A:1314:THR:N	2.51	0.42
1:A:1182:GLU:O	1:A:1183:GLU:HB2	2.18	0.42
1:A:1188:LEU:C	1:A:1189:TYR:CD1	2.94	0.42
1:A:1253:ALA:CB	1:A:1254:GLU:CA	2.81	0.42
1:A:1261:GLU:O	1:A:1263:ASP:N	2.53	0.42
2:B:331:ARG:HB2	2:B:332:GLU:H	1.75	0.42
2:B:349:HIS:O	2:B:350:ILE:CB	2.68	0.42
2:B:440:THR:CG2	2:B:441:ASN:N	2.81	0.42
2:B:488:ILE:HD12	2:B:490:ARG:HG3	2.01	0.42
2:B:492:GLY:HA3	2:B:493:LYS:HA	1.49	0.42
2:B:501:HIS:O	2:B:502:ASN:C	2.58	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:587:ARG:NH2	2:B:601:ILE:HD11	2.28	0.42
2:B:767:MET:HE3	2:B:783:ASN:CG	2.40	0.42
2:B:1088:VAL:C	2:B:1090:ASP:N	2.73	0.42
3:C:88:ARG:HD3	11:K:11:GLU:OE1	2.19	0.42
3:C:178:ALA:HB3	3:C:232:ASP:HB3	2.02	0.42
5:E:98:ASN:HD22	5:E:98:ASN:N	2.18	0.42
5:E:144:LEU:HD23	5:E:144:LEU:HA	1.78	0.42
7:G:95:VAL:HG11	7:G:130:ASN:HA	2.02	0.42
7:G:119:ASP:CB	7:G:134:GLU:OE1	2.68	0.42
7:G:126:ALA:O	7:G:128:PRO:N	2.53	0.42
8:H:13:VAL:HG23	8:H:53:ALA:HB3	2.00	0.42
8:H:88:ASP:O	8:H:89:GLU:C	2.56	0.42
11:K:109:GLU:O	11:K:113:ILE:HG13	2.20	0.42
1:M:43:MET:H	1:M:55:LEU:HG	1.84	0.42
1:M:66:GLN:N	1:M:67:PHE:CD1	2.88	0.42
1:M:163:LEU:N	1:M:165:ASN:N	2.68	0.42
1:M:405:HIS:CD2	1:M:406:PRO:HD3	2.54	0.42
1:M:422:ARG:O	1:M:423:TYR:C	2.59	0.42
1:M:533:THR:HG22	1:M:660:ASN:OD1	2.20	0.42
1:M:558:TRP:CZ3	1:M:661:TYR:CD1	3.08	0.42
1:M:602:SER:OG	1:M:604:SER:HB3	2.19	0.42
1:M:793:PHE:CE2	1:M:802:SER:HB2	2.55	0.42
1:M:847:LEU:HD22	1:M:847:LEU:H	1.85	0.42
1:M:1342:LEU:HD23	1:M:1350:THR:CG2	2.47	0.42
2:N:229:LEU:H	2:N:229:LEU:CD2	2.33	0.42
2:N:376:LEU:O	2:N:377:GLU:HB3	2.20	0.42
2:N:526:SER:OG	2:N:529:SER:HB3	2.20	0.42
2:N:838:GLY:O	2:N:839:LEU:C	2.55	0.42
2:N:991:SER:HA	2:N:992:ALA:HA	1.78	0.42
3:O:7:ILE:HA	3:O:20:VAL:O	2.19	0.42
3:O:36:VAL:HG13	3:O:244:ILE:CG2	2.49	0.42
4:P:19:PHE:HD1	7:S:81:ARG:CD	2.33	0.42
5:Q:15:TRP:CE3	5:Q:19:HIS:CE1	3.08	0.42
7:S:15:HIS:CE1	7:S:16:PRO:HD2	2.55	0.42
7:S:90:ALA:CB	7:S:104:ILE:HG13	2.50	0.42
8:T:19:GLN:O	8:T:21:TYR:HD1	2.02	0.42
8:T:36:MET:HA	8:T:36:MET:HE2	2.00	0.42
9:U:100:ILE:H	9:U:100:ILE:HG12	1.75	0.42
1:A:104:ILE:O	1:A:105:LEU:O	2.37	0.41
1:A:120:SER:H	1:A:122:PRO:CD	2.28	0.41
1:A:183:ARG:NH1	1:A:203:PRO:CB	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:201:ASP:CB	1:A:206:ARG:HH12	2.21	0.41
1:A:359:ILE:C	1:A:359:ILE:CD1	2.88	0.41
1:A:533:THR:HG22	1:A:660:ASN:OD1	2.20	0.41
1:A:659:VAL:O	1:A:660:ASN:C	2.55	0.41
1:A:1092:VAL:O	1:A:1093:SER:CB	2.68	0.41
1:A:1364:PHE:HA	1:A:1365:ASP:HA	1.42	0.41
1:A:1463:THR:O	1:A:1463:THR:OG1	2.30	0.41
2:B:229:LEU:H	2:B:229:LEU:CD2	2.33	0.41
2:B:526:SER:OG	2:B:529:SER:HB3	2.20	0.41
2:B:839:LEU:HB3	2:B:840:PHE:CD1	2.51	0.41
2:B:926:VAL:O	2:B:926:VAL:HG12	2.20	0.41
2:B:1138:GLU:HG2	2:B:1143:CYS:SG	2.60	0.41
3:C:36:VAL:HG13	3:C:244:ILE:CG2	2.49	0.41
7:G:93:THR:O	7:G:140:LYS:CE	2.66	0.41
9:I:100:ILE:C	9:I:101:TYR:CD1	2.93	0.41
10:J:47:ARG:O	10:J:51:THR:CG2	2.65	0.41
10:J:52:HIS:CD2	10:J:53:VAL:H	2.38	0.41
1:M:16:VAL:CG2	2:N:1182:VAL:HG22	2.47	0.41
1:M:151:ASP:CG	1:M:152:THR:N	2.73	0.41
1:M:210:PRO:O	1:M:211:LEU:C	2.58	0.41
1:M:548:THR:O	1:M:552:VAL:HG23	2.20	0.41
1:M:585:SER:HB3	1:M:618:ILE:HG23	2.02	0.41
1:M:632:GLN:HB2	1:M:633:GLY:H	1.68	0.41
1:M:646:GLU:C	1:M:648:CYS:N	2.62	0.41
1:M:882:THR:HG23	1:M:883:LEU:HG	2.01	0.41
1:M:905:ILE:HG12	1:M:933:GLU:HB3	2.02	0.41
1:M:1182:GLU:O	1:M:1183:GLU:HB2	2.19	0.41
1:M:1188:LEU:C	1:M:1189:TYR:CD1	2.93	0.41
1:M:1253:ALA:HB1	1:M:1254:GLU:HB2	2.01	0.41
1:M:1290:MET:C	1:M:1291:MET:SD	2.98	0.41
2:N:474:PHE:O	2:N:475:ALA:C	2.59	0.41
2:N:792:LEU:HD23	2:N:792:LEU:HA	1.81	0.41
2:N:1044:VAL:O	2:N:1047:LEU:HB2	2.19	0.41
3:O:136:ALA:CB	10:V:16:ASP:OD1	2.67	0.41
3:O:165:ALA:O	3:O:166:LYS:C	2.57	0.41
4:P:108:ILE:HG22	4:P:108:ILE:O	2.20	0.41
5:Q:77:ALA:CB	5:Q:78:LYS:HA	2.48	0.41
5:Q:180:ALA:O	5:Q:184:GLY:N	2.51	0.41
7:S:95:VAL:HG11	7:S:130:ASN:HA	2.02	0.41
7:S:119:ASP:CB	7:S:134:GLU:OE1	2.68	0.41
8:T:74:TYR:CE2	8:T:76:MET:CG	2.95	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:100:ILE:C	9:U:101:TYR:CD1	2.93	0.41
1:A:81:GLY:C	1:A:249:PRO:CG	2.76	0.41
1:A:116:LYS:HG3	1:A:143:VAL:CG1	2.50	0.41
1:A:181:THR:O	1:A:182:ILE:HG12	2.20	0.41
1:A:231:ASN:C	1:A:233:GLN:N	2.73	0.41
1:A:231:ASN:HD21	1:A:234:TYR:HD2	1.67	0.41
1:A:426:ARG:HA	1:A:426:ARG:HD2	1.69	0.41
1:A:573:LYS:HG2	8:H:75:ILE:N	2.27	0.41
1:A:585:SER:HB3	1:A:618:ILE:HG23	2.02	0.41
1:A:624:ASP:OD1	1:A:624:ASP:N	2.52	0.41
1:A:744:LYS:HD2	1:A:746:SER:OG	2.20	0.41
1:A:887:GLN:HE22	1:A:964:GLN:HB2	1.86	0.41
1:A:947:LYS:CG	1:A:951:PRO:HG2	2.50	0.41
1:A:976:LEU:HD12	1:A:1041:ASN:ND2	2.35	0.41
1:A:979:LYS:O	1:A:981:PRO:HD3	2.20	0.41
1:A:1049:MET:HE3	1:A:1049:MET:HB3	1.81	0.41
1:A:1264:VAL:C	1:A:1266:LEU:N	2.72	0.41
2:B:111:TYR:HB2	2:B:189:ILE:CG1	2.51	0.41
2:B:158:MET:HB3	2:B:158:MET:HE2	1.73	0.41
2:B:362:PHE:O	2:B:365:GLY:N	2.53	0.41
2:B:522:VAL:C	2:B:523:LYS:HG3	2.41	0.41
2:B:747:PHE:N	2:B:748:PRO:HD3	2.35	0.41
2:B:747:PHE:CD2	2:B:1016:VAL:HG11	2.55	0.41
2:B:814:VAL:CG1	2:B:815:ALA:N	2.83	0.41
2:B:824:GLN:O	2:B:827:SER:HB3	2.20	0.41
2:B:841:ARG:NH2	3:C:64:HIS:ND1	2.68	0.41
2:B:1199:ASN:N	2:B:1199:ASN:ND2	2.67	0.41
3:C:61:PHE:CD2	3:C:61:PHE:O	2.73	0.41
7:G:23:MET:O	7:G:26:TYR:N	2.53	0.41
8:H:111:LEU:O	8:H:113:ARG:N	2.53	0.41
10:J:48:MET:HA	10:J:48:MET:HE3	2.01	0.41
11:K:38:ASP:HB3	11:K:70:PHE:CD2	2.48	0.41
1:M:88:LEU:CG	1:M:243:THR:O	2.67	0.41
1:M:856:VAL:CG2	1:M:1065:GLU:HG2	2.50	0.41
1:M:1442:MET:O	1:M:1444:THR:N	2.49	0.41
1:M:1445:GLY:HA3	2:N:1133:SER:CB	2.50	0.41
1:M:1492:VAL:O	1:M:1496:PHE:HD2	2.02	0.41
2:N:30:LEU:C	2:N:32:ARG:H	2.24	0.41
2:N:45:THR:O	2:N:49:ILE:HG23	2.20	0.41
2:N:106:LEU:H	2:N:106:LEU:CD2	2.21	0.41
2:N:440:THR:CG2	2:N:441:ASN:N	2.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:480:HIS:HD2	2:N:483:ARG:NH1	2.16	0.41
2:N:501:HIS:O	2:N:502:ASN:C	2.59	0.41
2:N:532:SER:HB3	2:N:618:ARG:H	1.85	0.41
2:N:824:GLN:O	2:N:827:SER:HB3	2.20	0.41
2:N:1124:ARG:CD	2:N:1128:ILE:HD11	2.50	0.41
2:N:1195:LEU:HD12	2:N:1202:PRO:HG3	2.02	0.41
2:N:1207:LYS:O	2:N:1208:ASN:C	2.58	0.41
3:O:42:THR:CG2	3:O:171:TRP:HB3	2.49	0.41
4:P:92:GLN:HA	4:P:95:THR:OG1	2.20	0.41
4:P:123:ILE:O	4:P:127:LEU:HG	2.20	0.41
7:S:23:MET:O	7:S:26:TYR:N	2.53	0.41
8:T:13:VAL:HG23	8:T:53:ALA:HB3	2.00	0.41
8:T:104:ILE:HD13	8:T:110:LYS:HE3	2.02	0.41
11:W:109:GLU:O	11:W:113:ILE:HG13	2.20	0.41
12:X:40:ARG:HB3	12:X:47:ARG:HG2	2.02	0.41
1:A:271:LYS:CD	1:A:322:GLN:NE2	2.74	0.41
1:A:525:PRO:HD3	1:A:637:HIS:CE1	2.46	0.41
1:A:584:LEU:C	1:A:586:LEU:N	2.73	0.41
1:A:739:ALA:O	1:A:743:LEU:HG	2.19	0.41
1:A:801:GLU:HB3	2:B:718:PRO:HB3	2.02	0.41
1:A:850:ALA:CB	1:A:1390:ILE:HD12	2.51	0.41
1:A:852:GLU:CB	1:A:1430:ILE:HD11	2.50	0.41
1:A:856:VAL:CG2	1:A:1065:GLU:HG2	2.50	0.41
1:A:1082:MET:C	1:A:1086:THR:HG23	2.39	0.41
1:A:1290:MET:C	1:A:1291:MET:SD	2.98	0.41
2:B:572:TRP:CG	2:B:572:TRP:O	2.71	0.41
2:B:1006:ILE:HD13	2:B:1006:ILE:HA	1.80	0.41
2:B:1084:LEU:HD23	2:B:1084:LEU:HA	1.64	0.41
3:C:69:ILE:HD12	3:C:70:PRO:CD	2.49	0.41
4:D:86:HIS:HD2	4:D:89:GLU:OE1	2.02	0.41
4:D:92:GLN:HA	4:D:95:THR:OG1	2.20	0.41
5:E:128:GLU:HA	5:E:129:THR:HB	2.01	0.41
5:E:166:ARG:O	5:E:168:THR:N	2.53	0.41
6:F:75:MET:H	6:F:142:ILE:C	2.23	0.41
6:F:106:ASP:HB3	6:F:109:GLN:HB2	2.01	0.41
10:J:44:CYS:H	10:J:46:ARG:H	1.68	0.41
1:M:194:LYS:HE3	1:M:194:LYS:HB2	1.88	0.41
1:M:271:LYS:CD	1:M:322:GLN:NE2	2.74	0.41
1:M:480:VAL:O	1:M:480:VAL:CG1	2.63	0.41
1:M:492:GLU:OE2	2:N:1091:LYS:HD3	2.19	0.41
1:M:816:PRO:HB2	2:N:689:MET:HE1	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1093:SER:O	1:M:1094:SER:OG	2.34	0.41
2:N:281:ARG:HD3	9:U:11:ASN:HB3	2.02	0.41
2:N:495:ALA:O	2:N:496:LYS:O	2.39	0.41
2:N:694:LEU:HD11	2:N:730:CYS:HB2	2.02	0.41
2:N:1138:GLU:HG2	2:N:1143:CYS:SG	2.60	0.41
4:P:11:ALA:CB	4:P:13:LEU:N	2.81	0.41
4:P:24:MET:SD	4:P:88:PHE:CG	3.04	0.41
5:Q:91:VAL:O	5:Q:94:LEU:N	2.54	0.41
7:S:92:VAL:HA	7:S:102:ALA:HA	2.03	0.41
7:S:126:ALA:O	7:S:128:PRO:N	2.53	0.41
9:U:6:TYR:HB2	9:U:7:CYS:H	1.73	0.41
1:A:584:LEU:C	1:A:584:LEU:CD2	2.88	0.41
1:A:585:SER:HB3	1:A:618:ILE:H	1.85	0.41
1:A:672:ILE:O	1:A:673:GLY:C	2.59	0.41
1:A:793:PHE:CE2	1:A:802:SER:HB2	2.55	0.41
1:A:827:ARG:O	1:A:827:ARG:HG2	2.19	0.41
1:A:1238:LYS:HD3	1:A:1238:LYS:HA	1.83	0.41
1:A:1251:ARG:O	1:A:1252:LYS:HB2	2.20	0.41
1:A:1412:VAL:HG13	1:A:1413:GLU:HG2	1.99	0.41
2:B:694:LEU:HD11	2:B:730:CYS:HB2	2.02	0.41
2:B:867:VAL:C	2:B:869:SER:H	2.21	0.41
2:B:1207:LYS:O	2:B:1208:ASN:C	2.58	0.41
3:C:65:ARG:HH12	3:C:145:ILE:CA	2.23	0.41
4:D:123:ILE:O	4:D:127:LEU:HG	2.21	0.41
5:E:30:SER:OG	5:E:33:GLU:HG3	2.20	0.41
5:E:132:GLU:C	5:E:134:ASP:N	2.73	0.41
6:F:87:ARG:NH1	6:F:121:PRO:HD2	2.35	0.41
6:F:106:ASP:C	6:F:108:LEU:N	2.72	0.41
7:G:52:SER:O	7:G:54:THR:N	2.43	0.41
9:I:57:THR:HA	9:I:58:VAL:HA	1.86	0.41
1:M:58:PRO:HA	1:M:59:ARG:HA	1.85	0.41
1:M:230:LEU:CD1	1:M:237:PRO:HG2	2.39	0.41
1:M:257:SER:C	1:M:259:ASP:N	2.72	0.41
1:M:448:VAL:HG22	1:M:449:ILE:N	2.35	0.41
1:M:559:VAL:N	1:M:560:PRO:CA	2.82	0.41
1:M:857:ARG:NH1	1:M:857:ARG:HG2	2.31	0.41
1:M:926:SER:O	1:M:927:VAL:C	2.59	0.41
1:M:978:ALA:HA	1:M:1039:ARG:NH1	2.35	0.41
1:M:1219:ILE:HG23	1:M:1273:MET:CE	2.51	0.41
1:M:1261:GLU:O	1:M:1263:ASP:N	2.53	0.41
2:N:101:PRO:HG3	2:N:111:TYR:CD1	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:111:TYR:HB2	2:N:189:ILE:CG1	2.51	0.41
2:N:578:ASP:HA	2:N:579:PRO:HD3	1.91	0.41
2:N:651:ASP:OD2	2:N:662:ARG:HB3	2.21	0.41
2:N:900:ILE:N	2:N:900:ILE:CD1	2.80	0.41
2:N:926:VAL:O	2:N:926:VAL:HG12	2.20	0.41
2:N:1121:GLU:O	2:N:1122:MET:C	2.58	0.41
5:Q:15:TRP:CE2	5:Q:19:HIS:HE1	2.38	0.41
7:S:46:ILE:HA	7:S:79:LEU:HD22	1.78	0.41
8:T:111:LEU:O	8:T:113:ARG:N	2.53	0.41
10:V:35:LEU:O	10:V:38:LEU:N	2.52	0.41
11:W:3:GLN:HA	11:W:4:PRO:HD3	1.95	0.41
1:A:57:ASP:O	1:A:59:ARG:CA	2.67	0.41
1:A:115:LEU:N	1:A:115:LEU:HD12	2.36	0.41
1:A:259:ASP:HA	1:A:260:GLY:HA2	1.54	0.41
1:A:380:LEU:HB3	1:A:381:THR:H	1.63	0.41
1:A:570:VAL:O	1:A:570:VAL:CG1	2.68	0.41
1:A:602:SER:OG	1:A:604:SER:HB3	2.20	0.41
1:A:628:VAL:O	1:A:628:VAL:HG23	2.20	0.41
1:A:632:GLN:HB2	1:A:633:GLY:H	1.68	0.41
1:A:1106:GLU:OE1	1:A:1114:ILE:HB	2.20	0.41
1:A:1259:MET:C	1:A:1260:ILE:CG2	2.79	0.41
2:B:108:ASN:HA	2:B:192:GLY:HA3	2.03	0.41
2:B:263:ARG:CB	2:B:322:LYS:HD2	2.33	0.41
2:B:278:VAL:H	2:B:279:PRO:CD	2.24	0.41
2:B:298:GLU:O	2:B:301:LYS:N	2.53	0.41
2:B:379:ARG:HB3	2:B:380:GLU:H	1.74	0.41
2:B:385:ASP:O	2:B:386:HIS:C	2.59	0.41
2:B:556:ASN:HA	2:B:560:SER:O	2.21	0.41
2:B:621:ARG:NH2	2:B:682:GLU:OE2	2.53	0.41
2:B:870:THR:O	2:B:870:THR:OG1	2.35	0.41
2:B:986:GLU:CD	2:B:986:GLU:N	2.69	0.41
3:C:45:ILE:HG21	3:C:45:ILE:HD13	1.80	0.41
3:C:172:SER:HB2	3:C:174:THR:HG22	2.01	0.41
5:E:156:LYS:HG3	5:E:190:VAL:CG2	2.50	0.41
6:F:128:LEU:HB3	6:F:129:PRO:HD2	2.02	0.41
7:G:54:THR:CG2	7:G:76:ARG:HD2	2.50	0.41
7:G:107:LEU:HD12	7:G:108:ASN:H	1.85	0.41
7:G:114:HIS:NE2	7:G:115:LEU:HD21	2.36	0.41
7:G:147:LYS:NZ	7:G:166:GLU:CB	2.84	0.41
9:I:24:VAL:HG12	9:I:25:LEU:O	2.20	0.41
1:M:11:VAL:HG11	2:N:1179:PHE:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:115:LEU:CD1	1:M:115:LEU:N	2.76	0.41
1:M:178:ALA:O	1:M:179:GLN:HG3	2.19	0.41
1:M:271:LYS:HE2	1:M:328:LEU:HB3	1.95	0.41
1:M:581:LYS:O	1:M:582:GLN:O	2.39	0.41
1:M:672:ILE:O	1:M:673:GLY:C	2.59	0.41
1:M:696:VAL:O	1:M:699:CYS:N	2.50	0.41
1:M:811:LEU:O	2:N:750:HIS:NE2	2.54	0.41
1:M:836:LYS:HD2	1:M:1084:LEU:CD1	2.42	0.41
1:M:947:LYS:CG	1:M:951:PRO:HG2	2.50	0.41
1:M:1155:ILE:HG12	1:M:1196:LEU:HD22	2.02	0.41
2:N:77:ILE:HD11	2:N:418:MET:SD	2.60	0.41
2:N:491:ASP:OD1	2:N:491:ASP:N	2.54	0.41
2:N:640:ILE:HG22	2:N:641:ARG:N	2.35	0.41
2:N:811:ASN:HA	2:N:1080:TYR:HA	2.03	0.41
2:N:841:ARG:NH2	3:O:64:HIS:ND1	2.68	0.41
2:N:901:ILE:CD1	2:N:928:THR:O	2.68	0.41
2:N:1142:ASP:O	2:N:1146:ALA:HB2	2.20	0.41
5:Q:156:LYS:HG3	5:Q:190:VAL:CG2	2.50	0.41
10:V:5:ILE:HG23	10:V:5:ILE:HD13	1.86	0.41
10:V:43:TYR:N	10:V:44:CYS:CB	2.84	0.41
1:A:92:VAL:CG2	1:A:242:ILE:HB	2.51	0.41
1:A:121:ASN:N	1:A:122:PRO:CD	2.83	0.41
1:A:405:HIS:CD2	1:A:406:PRO:HD3	2.54	0.41
1:A:511:THR:O	1:A:512:MET:HG2	2.20	0.41
1:A:524:LYS:NZ	1:A:632:GLN:HB3	2.34	0.41
1:A:537:VAL:O	1:A:538:ARG:C	2.58	0.41
1:A:548:THR:O	1:A:552:VAL:HG23	2.20	0.41
1:A:789:THR:CG2	1:A:793:PHE:HD2	2.33	0.41
1:A:858:TYR:HA	1:A:1063:PRO:CG	2.51	0.41
1:A:968:GLN:HA	1:A:969:ASN:HA	1.80	0.41
1:A:989:ILE:HD11	1:A:990:ILE:HG23	2.03	0.41
1:A:1118:SER:O	1:A:1119:LEU:CB	2.67	0.41
2:B:391:ARG:HB3	2:B:617:GLY:HA3	2.02	0.41
2:B:703:GLY:C	2:B:704:TYR:CD1	2.85	0.41
2:B:1061:MET:O	2:B:1070:LEU:HG	2.21	0.41
2:B:1095:ARG:NH1	2:B:1098:GLY:H	2.19	0.41
5:E:155:GLU:O	5:E:158:GLU:HB2	2.20	0.41
7:G:62:VAL:HA	7:G:69:ALA:HA	2.01	0.41
7:G:90:ALA:CB	7:G:104:ILE:CG1	2.99	0.41
7:G:111:VAL:HB	7:G:146:LEU:HD21	2.02	0.41
7:G:147:LYS:HZ2	7:G:166:GLU:HB3	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:76:MET:O	8:H:120:TYR:HA	2.20	0.41
10:J:43:TYR:N	10:J:44:CYS:CB	2.84	0.41
12:L:25:ALA:HB2	12:L:48:VAL:HG21	2.02	0.41
1:M:17:GLU:CD	2:N:1207:LYS:HB2	2.40	0.41
1:M:23:ILE:HD12	1:M:235:ALA:HB1	2.03	0.41
1:M:118:ASP:HB2	1:M:120:SER:HA	2.03	0.41
1:M:574:PRO:HB2	3:O:222:PHE:CE1	2.56	0.41
1:M:672:ILE:O	1:M:674:ASP:N	2.54	0.41
1:M:773:GLN:HB2	1:M:805:PHE:HA	2.03	0.41
1:M:801:GLU:HB3	2:N:718:PRO:HB3	2.02	0.41
1:M:816:PRO:CB	2:N:689:MET:CE	2.97	0.41
1:M:860:GLY:HA2	1:M:874:TYR:CZ	2.55	0.41
1:M:922:GLU:CB	1:M:923:ASN:C	2.89	0.41
1:M:952:LYS:HA	1:M:952:LYS:HD2	1.94	0.41
1:M:1024:LEU:HD23	1:M:1024:LEU:HA	1.67	0.41
1:M:1106:GLU:OE1	1:M:1114:ILE:HB	2.20	0.41
1:M:1288:VAL:CG1	1:M:1289:TYR:H	2.33	0.41
1:M:1440:ALA:HA	1:M:1441:PRO:HD3	1.84	0.41
2:N:349:HIS:O	2:N:350:ILE:CB	2.68	0.41
2:N:508:VAL:CG1	2:N:737:ILE:HG22	2.50	0.41
2:N:522:VAL:C	2:N:523:LYS:HG3	2.41	0.41
2:N:747:PHE:CD2	2:N:1016:VAL:HG11	2.55	0.41
2:N:806:LEU:N	2:N:807:PRO:HD3	2.35	0.41
2:N:903:LYS:H	2:N:927:SER:HB3	1.85	0.41
2:N:1176:ARG:C	2:N:1179:PHE:CE2	2.89	0.41
2:N:1207:LYS:C	2:N:1209:HIS:H	2.23	0.41
3:O:62:LEU:HD23	3:O:62:LEU:HA	1.72	0.41
3:O:66:LEU:HD23	3:O:66:LEU:HA	1.87	0.41
3:O:240:PRO:HB2	3:O:243:GLU:HG3	2.02	0.41
4:P:60:ALA:O	4:P:64:VAL:HG23	2.20	0.41
5:Q:62:LYS:HA	5:Q:63:PRO:HD3	1.73	0.41
5:Q:198:GLU:H	5:Q:199:THR:CA	2.33	0.41
6:R:79:GLU:O	6:R:82:ARG:N	2.47	0.41
6:R:120:ILE:HA	6:R:121:PRO:HD3	1.88	0.41
7:S:93:THR:O	7:S:140:LYS:CE	2.66	0.41
7:S:111:VAL:HB	7:S:146:LEU:HD21	2.02	0.41
10:V:52:HIS:CD2	10:V:53:VAL:H	2.38	0.41
12:X:25:ALA:HB2	12:X:48:VAL:HG21	2.02	0.41
1:A:23:ILE:HD12	1:A:235:ALA:HB1	2.03	0.41
1:A:189:LEU:O	1:A:190:TRP:CD1	2.67	0.41
1:A:208:LEU:O	1:A:209:SER:HB3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:749:VAL:O	1:A:749:VAL:CG1	2.66	0.41
1:A:836:LYS:HD2	1:A:1084:LEU:CD1	2.41	0.41
1:A:952:LYS:HA	1:A:952:LYS:HD2	1.93	0.41
1:A:1041:ASN:O	1:A:1042:LYS:C	2.59	0.41
1:A:1450:TYR:CG	7:G:60:GLY:O	2.73	0.41
2:B:32:ARG:O	2:B:36:PHE:HB2	2.20	0.41
2:B:38:PHE:C	2:B:40:GLU:N	2.74	0.41
2:B:233:SER:OG	2:B:234:ARG:N	2.52	0.41
2:B:513:THR:HB	2:B:514:PRO:CD	2.50	0.41
2:B:562:ASN:CA	2:B:563:ALA:HB3	2.49	0.41
2:B:626:VAL:HG23	2:B:728:THR:O	2.21	0.41
2:B:901:ILE:CD1	2:B:928:THR:O	2.68	0.41
3:C:16:SER:HB3	3:C:234:GLU:HG3	2.02	0.41
3:C:165:ALA:O	3:C:166:LYS:C	2.57	0.41
7:G:66:GLN:CG	7:G:68:PHE:CE2	3.04	0.41
10:J:35:LEU:C	10:J:37:LYS:N	2.73	0.41
1:M:150:CYS:SG	1:M:176:GLY:CA	3.08	0.41
1:M:421:LEU:O	1:M:422:ARG:O	2.39	0.41
1:M:425:LYS:HB3	1:M:426:ARG:H	1.62	0.41
1:M:805:PHE:CD2	1:M:805:PHE:C	2.94	0.41
1:M:845:ARG:O	1:M:846:ARG:C	2.57	0.41
1:M:1347:ILE:HA	1:M:1350:THR:HG22	2.03	0.41
2:N:415:TYR:HE2	2:N:419:GLN:NE2	2.19	0.41
2:N:728:THR:CG2	2:N:729:HIS:N	2.84	0.41
2:N:887:LEU:HB2	12:X:51:LYS:NZ	2.35	0.41
2:N:888:ILE:HD12	2:N:938:VAL:HG21	2.01	0.41
2:N:1021:SER:O	2:N:1022:LYS:C	2.59	0.41
5:Q:107:ALA:HA	5:Q:108:ASN:HA	1.41	0.41
7:S:54:THR:CG2	7:S:76:ARG:HD2	2.50	0.41
10:V:3:ILE:H	10:V:3:ILE:HG13	1.33	0.41
1:A:20:GLN:N	2:B:1203:ARG:O	2.34	0.41
1:A:86:ILE:O	1:A:88:LEU:HD23	2.20	0.41
1:A:127:THR:CA	1:A:130:TYR:HD2	2.18	0.41
1:A:194:LYS:HB2	1:A:194:LYS:HE3	1.73	0.41
1:A:409:LYS:O	1:A:410:TYR:O	2.39	0.41
1:A:421:LEU:O	1:A:422:ARG:O	2.39	0.41
1:A:571:ILE:HD11	1:A:573:LYS:HZ1	1.85	0.41
1:A:668:PHE:HZ	1:A:752:MET:HE2	1.84	0.41
1:A:708:LEU:CG	1:A:709:LYS:O	2.64	0.41
1:A:781:ILE:CG1	1:A:821:PHE:CE2	2.83	0.41
1:A:886:TYR:CE2	1:A:956:ARG:HD2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1010:THR:HA	5:E:162:ARG:NH2	2.35	0.41
1:A:1157:TYR:HD1	9:I:18:GLU:OE2	2.04	0.41
1:A:1223:PHE:CE2	1:A:1273:MET:CE	3.03	0.41
1:A:1450:TYR:CE2	6:F:125:ARG:NE	2.88	0.41
2:B:166:LEU:O	2:B:167:ASN:C	2.58	0.41
2:B:474:PHE:O	2:B:475:ALA:C	2.58	0.41
2:B:479:SER:OG	2:B:524:ASN:ND2	2.54	0.41
2:B:538:ALA:CB	2:B:539:PRO:CD	2.98	0.41
2:B:651:ASP:O	2:B:654:ARG:HB2	2.21	0.41
2:B:887:LEU:HB2	12:L:51:LYS:NZ	2.35	0.41
2:B:888:ILE:HD13	2:B:888:ILE:HG21	1.84	0.41
2:B:1095:ARG:O	2:B:1096:ALA:CB	2.69	0.41
3:C:48:VAL:HG23	12:L:60:PHE:HB2	2.03	0.41
3:C:62:LEU:HD23	3:C:62:LEU:HA	1.72	0.41
3:C:137:ASP:OD1	3:C:137:ASP:O	2.39	0.41
4:D:19:PHE:HD1	7:G:81:ARG:CD	2.33	0.41
4:D:22:GLU:OE1	7:G:6:LYS:HD2	2.20	0.41
5:E:101:THR:CB	5:E:126:THR:HG23	2.50	0.41
7:G:90:ALA:CB	7:G:104:ILE:HG13	2.50	0.41
7:G:92:VAL:HA	7:G:102:ALA:HA	2.03	0.41
8:H:117:ASP:C	8:H:118:HIS:O	2.59	0.41
9:I:71:SER:O	9:I:72:ASP:OD1	2.38	0.41
1:M:33:SER:HB2	1:M:85:HIS:H	1.85	0.41
1:M:477:ASN:ND2	1:M:656:GLN:OE1	2.50	0.41
1:M:584:LEU:C	1:M:584:LEU:CD2	2.88	0.41
1:M:850:ALA:CB	1:M:1395:ILE:HG23	2.43	0.41
1:M:856:VAL:HG22	1:M:1067:VAL:HG23	1.98	0.41
1:M:858:TYR:HA	1:M:1063:PRO:CG	2.51	0.41
1:M:1010:THR:HG22	1:M:1010:THR:O	2.21	0.41
1:M:1177:PHE:CD2	1:M:1230:ILE:HG21	2.55	0.41
1:M:1201:ASP:C	1:M:1203:ALA:H	2.23	0.41
2:N:55:THR:O	2:N:56:LEU:HB2	2.21	0.41
2:N:86:ARG:HA	2:N:87:PRO:HD3	1.82	0.41
2:N:158:MET:HB2	2:N:188:PHE:CZ	2.56	0.41
2:N:484:THR:O	2:N:485:ASN:O	2.39	0.41
2:N:870:THR:O	2:N:870:THR:OG1	2.35	0.41
2:N:1048:LEU:HD23	2:N:1048:LEU:HA	1.88	0.41
2:N:1056:ARG:HH12	3:O:201:GLU:HB3	1.86	0.41
3:O:178:ALA:HB3	3:O:232:ASP:HB3	2.02	0.41
4:P:48:GLU:HB3	4:P:49:ILE:H	1.65	0.41
4:P:65:PHE:CE1	7:S:89:ASP:CB	3.04	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:Q:199:THR:N	5:Q:201:GLY:H	2.16	0.41
7:S:84:ARG:CD	7:S:150:GLY:HA2	2.51	0.41
7:S:107:LEU:HD12	7:S:108:ASN:H	1.85	0.41
8:T:76:MET:O	8:T:120:TYR:HA	2.20	0.41
8:T:87:LYS:O	8:T:88:ASP:HB2	2.21	0.41
8:T:113:ARG:HG3	8:T:113:ARG:HH11	1.85	0.41
9:U:65:ASP:HB3	9:U:68:LEU:CD1	2.48	0.41
10:V:7:CYS:SG	10:V:10:CYS:HB2	2.61	0.41
1:A:95:ILE:CB	1:A:314:ILE:CD1	2.99	0.41
1:A:98:LEU:HD23	1:A:98:LEU:HA	1.87	0.41
1:A:214:HIS:HE1	1:A:238:ASP:O	2.04	0.41
1:A:312:ASN:ND2	1:A:330:SER:N	2.63	0.41
1:A:345:ASN:O	1:A:346:LEU:HD23	2.21	0.41
1:A:350:ARG:O	1:A:351:VAL:CG2	2.68	0.41
1:A:428:GLY:C	1:A:430:ILE:N	2.74	0.41
1:A:432:LEU:CD2	1:A:436:TRP:HZ2	2.30	0.41
1:A:442:ILE:H	1:A:442:ILE:HG12	1.51	0.41
1:A:551:ALA:HB1	1:A:554:ASN:CB	2.50	0.41
1:A:574:PRO:HB2	3:C:222:PHE:CE1	2.56	0.41
1:A:669:SER:HA	2:B:1003:PRO:CG	2.51	0.41
1:A:757:SER:HG	2:B:1004:HIS:CD2	2.38	0.41
1:A:786:LYS:HD2	1:A:786:LYS:HA	1.93	0.41
1:A:789:THR:CG2	1:A:793:PHE:CD2	3.04	0.41
1:A:847:LEU:H	1:A:847:LEU:HD22	1.85	0.41
1:A:850:ALA:HB1	1:A:1395:ILE:HG23	2.01	0.41
1:A:860:GLY:HA2	1:A:874:TYR:CZ	2.55	0.41
1:A:905:ILE:HG12	1:A:933:GLU:HB3	2.02	0.41
1:A:907:LEU:H	1:A:907:LEU:CD2	2.34	0.41
1:A:944:LEU:O	1:A:944:LEU:HD22	2.21	0.41
1:A:1088:HIS:HB3	1:A:1089:TYR:H	1.65	0.41
1:A:1140:GLN:NE2	1:A:1280:ARG:CZ	2.84	0.41
1:A:1155:ILE:HG12	1:A:1196:LEU:HD22	2.02	0.41
1:A:1165:VAL:O	1:A:1166:ILE:CB	2.69	0.41
1:A:1165:VAL:O	1:A:1166:ILE:HG23	2.21	0.41
1:A:1219:ILE:HG23	1:A:1273:MET:CE	2.50	0.41
1:A:1320:THR:CG2	1:A:1321:GLU:N	2.72	0.41
1:A:1328:VAL:H	1:A:1329:ASP:HB2	1.86	0.41
1:A:1371:TYR:O	1:A:1371:TYR:CG	2.74	0.41
1:A:1431:SER:HA	1:A:1434:ILE:CD1	2.51	0.41
1:A:1467:THR:O	1:A:1468:LEU:C	2.60	0.41
2:B:41:PHE:N	2:B:42:VAL:O	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:43:GLN:N	2:B:44:ASN:CB	2.79	0.41
2:B:77:ILE:HD11	2:B:418:MET:SD	2.61	0.41
2:B:240:GLN:O	2:B:241:ILE:HG22	2.21	0.41
2:B:252:GLY:O	2:B:253:GLN:HB2	2.20	0.41
2:B:484:THR:O	2:B:485:ASN:O	2.39	0.41
2:B:487:PRO:HA	2:B:488:ILE:HA	1.60	0.41
2:B:754:PRO:O	2:B:758:TYR:HD2	1.98	0.41
2:B:811:ASN:HA	2:B:1080:TYR:HA	2.03	0.41
2:B:1121:GLU:O	2:B:1122:MET:C	2.58	0.41
3:C:7:ILE:HD11	11:K:103:ASN:O	2.20	0.41
3:C:26:LEU:O	3:C:29:ALA:HB3	2.20	0.41
3:C:63:ALA:HB1	12:L:62:ALA:HA	2.02	0.41
3:C:147:LYS:HB2	10:J:60:LEU:HD11	2.03	0.41
4:D:61:TYR:CE1	7:G:105:GLY:N	2.89	0.41
5:E:77:ALA:CB	5:E:78:LYS:CA	2.97	0.41
5:E:198:GLU:H	5:E:199:THR:CB	2.34	0.41
7:G:84:ARG:HG2	7:G:150:GLY:CA	2.51	0.41
7:G:151:THR:HA	7:G:160:ALA:CA	2.47	0.41
8:H:25:SER:HG	8:H:44:SER:HB3	1.81	0.41
8:H:100:LEU:C	8:H:101:LEU:HD23	2.42	0.41
8:H:104:ILE:HD13	8:H:110:LYS:HE3	2.02	0.41
9:I:70:ARG:HG3	9:I:84:VAL:HG22	2.02	0.41
1:M:94:HIS:C	1:M:98:LEU:CD1	2.89	0.41
1:M:110:TRP:HB3	1:M:216:ILE:HD13	2.02	0.41
1:M:115:LEU:N	1:M:115:LEU:HD12	2.36	0.41
1:M:189:LEU:CB	1:M:208:LEU:HD11	2.37	0.41
1:M:221:SER:HB2	1:M:224:ASP:CG	2.41	0.41
1:M:321:LEU:CD2	1:M:325:GLY:HA2	2.47	0.41
1:M:409:LYS:O	1:M:410:TYR:O	2.39	0.41
1:M:428:GLY:C	1:M:430:ILE:N	2.74	0.41
1:M:452:ARG:NH1	1:M:486:ALA:HB1	2.35	0.41
1:M:570:VAL:O	1:M:570:VAL:CG1	2.68	0.41
1:M:587:ILE:HD13	1:M:655:ILE:CG1	2.36	0.41
1:M:624:ASP:OD1	1:M:624:ASP:N	2.52	0.41
1:M:628:VAL:O	1:M:628:VAL:HG23	2.20	0.41
1:M:670:ILE:HD11	2:N:1006:ILE:HG21	2.03	0.41
1:M:714:MET:CB	1:M:715:THR:CA	2.94	0.41
1:M:749:VAL:O	1:M:749:VAL:CG1	2.66	0.41
1:M:776:VAL:HA	1:M:828:GLU:OE2	2.21	0.41
1:M:781:ILE:O	1:M:781:ILE:CG2	2.68	0.41
1:M:850:ALA:CB	1:M:1390:ILE:HD12	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:881:ALA:HB1	1:M:1370:ASN:ND2	2.36	0.41
1:M:922:GLU:HB2	1:M:924:ASP:H	1.86	0.41
1:M:979:LYS:O	1:M:981:PRO:HD3	2.20	0.41
1:M:1004:ARG:HA	1:M:1005:GLY:HA2	1.59	0.41
1:M:1118:SER:OG	1:M:1119:LEU:N	2.53	0.41
1:M:1165:VAL:O	1:M:1166:ILE:HG23	2.21	0.41
1:M:1364:PHE:HA	1:M:1365:ASP:HA	1.42	0.41
1:M:1371:TYR:O	1:M:1371:TYR:CG	2.74	0.41
2:N:38:PHE:C	2:N:40:GLU:N	2.74	0.41
2:N:42:VAL:CA	2:N:43:GLN:C	2.89	0.41
2:N:99:MET:O	2:N:165:ILE:HD13	2.21	0.41
2:N:119:MET:HE2	2:N:119:MET:HB3	1.87	0.41
2:N:166:LEU:O	2:N:167:ASN:C	2.58	0.41
2:N:180:CYS:C	2:N:182:TYR:N	2.73	0.41
2:N:210:VAL:HG11	2:N:381:PRO:HA	2.02	0.41
2:N:386:HIS:HA	2:N:388:GLY:N	2.36	0.41
2:N:513:THR:HB	2:N:514:PRO:CD	2.50	0.41
2:N:562:ASN:HA	2:N:563:ALA:C	2.40	0.41
2:N:659:PRO:CB	2:N:661:GLN:CG	2.70	0.41
2:N:747:PHE:HE1	2:N:1033:ALA:CB	2.34	0.41
2:N:759:GLN:HG3	2:N:972:ARG:O	2.19	0.41
2:N:850:ASP:OD2	2:N:903:LYS:HE3	2.21	0.41
2:N:965:ILE:HD11	2:N:981:MET:CE	2.51	0.41
2:N:965:ILE:HD11	2:N:981:MET:HA	2.03	0.41
2:N:1028:GLY:HA2	10:V:50:LEU:HD11	2.02	0.41
3:O:7:ILE:HD11	11:W:103:ASN:O	2.20	0.41
3:O:33:ARG:HE	3:O:179:PHE:CB	2.33	0.41
3:O:33:ARG:CZ	3:O:179:PHE:CD1	3.04	0.41
3:O:65:ARG:HH12	3:O:145:ILE:CA	2.23	0.41
3:O:102:GLU:HA	3:O:159:ILE:HG22	2.03	0.41
5:Q:30:SER:OG	5:Q:33:GLU:HG3	2.20	0.41
7:S:88:VAL:CG1	7:S:89:ASP:N	2.84	0.41
8:T:93:VAL:HG11	8:T:113:ARG:HD3	2.03	0.41
9:U:6:TYR:C	9:U:14:LEU:HD11	2.38	0.41
9:U:87:GLN:NE2	9:U:97:MET:HE3	2.26	0.41
10:V:5:ILE:HD12	10:V:5:ILE:HG21	1.89	0.41
11:W:94:ILE:HG13	11:W:95:THR:N	2.36	0.41
1:A:30:ARG:HG3	1:A:244:VAL:CG1	2.47	0.41
1:A:254:PRO:CD	2:B:1103:LEU:HD21	2.51	0.41
1:A:359:ILE:O	1:A:359:ILE:CD1	2.66	0.41
1:A:512:MET:O	1:A:515:LYS:N	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:661:TYR:HE1	11:K:61:LYS:HZ3	1.67	0.41
1:A:778:GLY:CA	1:A:1092:VAL:N	2.84	0.41
1:A:1347:ILE:HG23	1:A:1348:GLU:N	2.36	0.41
1:A:1371:TYR:CD2	1:A:1371:TYR:C	2.94	0.41
2:B:110:THR:HG23	2:B:190:ILE:HA	2.03	0.41
2:B:640:ILE:HG22	2:B:641:ARG:N	2.35	0.41
2:B:641:ARG:O	2:B:642:LYS:C	2.58	0.41
2:B:778:MET:CA	2:B:956:ARG:HH21	2.32	0.41
2:B:806:LEU:N	2:B:807:PRO:HD3	2.35	0.41
2:B:856:GLY:CA	2:B:857:MET:HB2	2.49	0.41
2:B:950:LEU:HB3	2:B:951:LYS:H	1.67	0.41
2:B:965:ILE:HD11	2:B:981:MET:HA	2.03	0.41
2:B:975:GLN:HA	2:B:975:GLN:HE21	1.86	0.41
2:B:1141:PHE:HD2	2:B:1185:PRO:HG3	1.87	0.41
3:C:33:ARG:HE	3:C:179:PHE:CB	2.33	0.41
3:C:215:ARG:O	3:C:215:ARG:HG3	2.20	0.41
4:D:75:TYR:O	4:D:79:ARG:HG3	2.22	0.41
5:E:57:LEU:HD12	5:E:57:LEU:HA	1.87	0.41
6:F:125:ARG:CG	6:F:135:ASP:OD1	2.61	0.41
8:H:23:ARG:O	8:H:24:VAL:HB	2.21	0.41
8:H:87:LYS:O	8:H:88:ASP:HB2	2.21	0.41
8:H:113:ARG:HH11	8:H:113:ARG:HG3	1.86	0.41
9:I:25:LEU:HD12	9:I:38:ALA:CB	2.45	0.41
10:J:7:CYS:SG	10:J:10:CYS:HB2	2.61	0.41
11:K:19:THR:OG1	11:K:33:THR:HB	2.21	0.41
1:M:312:ASN:ND2	1:M:330:SER:N	2.63	0.41
1:M:388:PRO:HG2	6:R:94:ASN:CG	2.34	0.41
1:M:556:MET:HE2	1:M:562:TRP:CZ2	2.56	0.41
1:M:728:LEU:CB	1:M:805:PHE:HE1	2.34	0.41
1:M:1161:PRO:CG	1:M:1190:LYS:HB3	2.51	0.41
2:N:641:ARG:N	2:N:644:HIS:HD2	2.08	0.41
2:N:798:MET:C	2:N:800:TYR:N	2.72	0.41
2:N:867:VAL:C	2:N:869:SER:H	2.21	0.41
2:N:945:THR:CB	12:X:39:ILE:HD13	2.43	0.41
2:N:1061:MET:O	2:N:1070:LEU:HG	2.21	0.41
3:O:222:PHE:C	3:O:224:GLU:N	2.75	0.41
4:P:51:MET:HB3	4:P:55:MET:CB	2.52	0.41
5:Q:155:GLU:O	5:Q:158:GLU:HB2	2.20	0.41
7:S:66:GLN:CG	7:S:68:PHE:CE2	3.04	0.41
7:S:111:VAL:CG1	7:S:111:VAL:O	2.60	0.41
7:S:147:LYS:NZ	7:S:166:GLU:CB	2.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:U:71:SER:O	9:U:72:ASP:OD1	2.38	0.41
10:V:35:LEU:C	10:V:37:LYS:N	2.73	0.41
1:A:36:LYS:H	1:A:36:LYS:HD2	1.86	0.40
1:A:231:ASN:O	1:A:233:GLN:N	2.54	0.40
1:A:275:ILE:HG23	1:A:302:LEU:HD22	2.03	0.40
1:A:358:VAL:O	1:A:473:THR:HB	2.21	0.40
1:A:388:PRO:CA	1:A:434:TYR:OH	2.69	0.40
1:A:422:ARG:O	1:A:423:TYR:C	2.59	0.40
1:A:510:ILE:CG1	1:A:511:THR:N	2.84	0.40
1:A:587:ILE:HD13	1:A:655:ILE:CG1	2.36	0.40
1:A:589:PRO:O	1:A:592:ILE:CD1	2.67	0.40
1:A:793:PHE:CZ	1:A:802:SER:HB2	2.57	0.40
1:A:856:VAL:CG2	1:A:1067:VAL:HG23	2.45	0.40
1:A:881:ALA:HB1	1:A:1370:ASN:ND2	2.36	0.40
1:A:1127:ILE:CB	1:A:1133:LEU:HD22	2.49	0.40
1:A:1492:VAL:HG22	4:D:75:TYR:OH	2.21	0.40
2:B:99:MET:O	2:B:165:ILE:HD13	2.21	0.40
2:B:402:LEU:O	2:B:403:PHE:C	2.59	0.40
2:B:415:TYR:HE2	2:B:419:GLN:NE2	2.19	0.40
2:B:488:ILE:CD1	2:B:490:ARG:HG3	2.48	0.40
2:B:704:TYR:O	2:B:705:GLU:C	2.60	0.40
2:B:968:LYS:HD2	2:B:1086:HIS:HE1	1.85	0.40
2:B:1124:ARG:CD	2:B:1128:ILE:HD11	2.50	0.40
3:C:33:ARG:HE	3:C:179:PHE:HB3	1.86	0.40
4:D:11:ALA:HB2	4:D:14:LYS:HG3	2.04	0.40
4:D:60:ALA:O	4:D:64:VAL:HG23	2.20	0.40
6:F:99:VAL:HG12	6:F:100:ASP:N	2.36	0.40
8:H:7:LEU:HD23	8:H:7:LEU:HA	1.73	0.40
10:J:45:CYS:O	10:J:48:MET:N	2.55	0.40
1:M:162:ASP:HA	1:M:165:ASN:H	1.86	0.40
1:M:331:ILE:O	1:M:335:LEU:HD23	2.19	0.40
1:M:358:VAL:O	1:M:473:THR:HB	2.21	0.40
1:M:512:MET:O	1:M:515:LYS:N	2.54	0.40
1:M:537:VAL:O	1:M:538:ARG:C	2.58	0.40
1:M:552:VAL:HB	1:M:553:MET:H	1.73	0.40
1:M:592:ILE:CG2	1:M:639:ILE:HG22	2.43	0.40
1:M:944:LEU:O	1:M:944:LEU:HD22	2.21	0.40
1:M:971:LEU:N	1:M:971:LEU:HD23	2.37	0.40
1:M:989:ILE:HD11	1:M:990:ILE:HG23	2.03	0.40
1:M:1041:ASN:O	1:M:1042:LYS:C	2.59	0.40
1:M:1145:THR:CG2	1:M:1146:LEU:N	2.78	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:1197:ARG:HD3	1:M:1240:ILE:HG21	2.03	0.40
1:M:1238:LYS:HA	1:M:1238:LYS:HD3	1.83	0.40
1:M:1371:TYR:CD2	1:M:1371:TYR:C	2.94	0.40
2:N:31:ALA:H	2:N:482:ARG:NH2	2.05	0.40
2:N:207:ILE:H	2:N:207:ILE:HG13	1.64	0.40
2:N:252:GLY:O	2:N:253:GLN:HB2	2.20	0.40
2:N:621:ARG:NH2	2:N:682:GLU:OE2	2.53	0.40
3:O:16:SER:HB3	3:O:234:GLU:HG3	2.02	0.40
4:P:22:GLU:OE1	7:S:6:LYS:HD2	2.20	0.40
5:Q:198:GLU:H	5:Q:199:THR:CB	2.35	0.40
6:R:128:LEU:HB3	6:R:129:PRO:HD2	2.03	0.40
7:S:84:ARG:HG2	7:S:150:GLY:CA	2.51	0.40
1:A:59:ARG:H	1:A:60:LEU:CD2	2.34	0.40
1:A:87:GLU:HB2	1:A:88:LEU:H	1.63	0.40
1:A:236:ARG:N	1:A:239:TRP:CZ3	2.85	0.40
1:A:462:MET:HB2	1:A:462:MET:HE3	1.99	0.40
1:A:670:ILE:HD11	2:B:1006:ILE:HG21	2.03	0.40
1:A:672:ILE:O	1:A:674:ASP:N	2.54	0.40
1:A:1160:ASP:C	1:A:1162:GLN:N	2.74	0.40
1:A:1288:VAL:HG12	1:A:1289:TYR:H	1.82	0.40
1:A:1347:ILE:O	1:A:1350:THR:CG2	2.69	0.40
1:A:1413:GLU:O	1:A:1417:ASP:N	2.54	0.40
2:B:158:MET:HB2	2:B:188:PHE:CZ	2.56	0.40
2:B:161:SER:H	2:B:164:CYS:HB3	1.86	0.40
2:B:281:ARG:HD3	9:I:11:ASN:HB3	2.03	0.40
2:B:540:ILE:CG1	2:B:541:ILE:N	2.84	0.40
3:C:64:HIS:O	3:C:64:HIS:CD2	2.74	0.40
3:C:102:GLU:HA	3:C:159:ILE:HG22	2.03	0.40
3:C:240:PRO:HB2	3:C:243:GLU:HG3	2.02	0.40
4:D:51:MET:HE1	4:D:55:MET:CE	2.42	0.40
8:H:93:VAL:HG11	8:H:113:ARG:HD3	2.03	0.40
9:I:79:HIS:O	9:I:79:HIS:CD2	2.75	0.40
12:L:40:ARG:HB3	12:L:47:ARG:HG2	2.03	0.40
1:M:373:PRO:HA	1:M:469:MET:O	2.22	0.40
1:M:394:LEU:O	1:M:394:LEU:HD23	2.21	0.40
1:M:592:ILE:HG12	1:M:613:ILE:HD12	2.02	0.40
1:M:653:ASN:O	1:M:657:ARG:HG3	2.21	0.40
1:M:668:PHE:HZ	1:M:752:MET:HE2	1.83	0.40
1:M:775:ILE:HD13	1:M:776:VAL:CA	2.47	0.40
1:M:789:THR:CG2	1:M:793:PHE:HD2	2.33	0.40
1:M:907:LEU:H	1:M:907:LEU:CD2	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:966:ILE:HD13	1:M:1052:VAL:CG2	2.40	0.40
1:M:1066:MET:HE1	1:M:1442:MET:CA	2.51	0.40
1:M:1119:LEU:O	1:M:1314:THR:N	2.51	0.40
2:N:399:LEU:HA	2:N:402:LEU:CD1	2.49	0.40
2:N:479:SER:OG	2:N:524:ASN:ND2	2.54	0.40
2:N:641:ARG:O	2:N:642:LYS:C	2.58	0.40
2:N:839:LEU:HD23	2:N:839:LEU:HA	1.54	0.40
2:N:939:ASP:OD2	2:N:956:ARG:NH1	2.49	0.40
2:N:975:GLN:HA	2:N:975:GLN:NE2	2.36	0.40
2:N:1200:ILE:O	2:N:1202:PRO:HD3	2.21	0.40
3:O:33:ARG:HE	3:O:179:PHE:HB3	1.86	0.40
8:T:23:ARG:O	8:T:24:VAL:HB	2.21	0.40
11:W:70:PHE:CD1	11:W:70:PHE:C	2.93	0.40
1:A:46:SER:OG	1:A:48:GLN:OE1	2.39	0.40
1:A:205:LYS:C	1:A:206:ARG:CG	2.87	0.40
1:A:346:LEU:HA	1:A:349:LYS:HE3	2.03	0.40
1:A:649:LYS:O	1:A:649:LYS:HG2	2.21	0.40
1:A:771:VAL:HG23	1:A:808:ASN:O	2.21	0.40
1:A:793:PHE:C	2:B:686:MET:HE3	2.41	0.40
1:A:811:LEU:HD23	2:B:1041:VAL:HG21	2.03	0.40
1:A:902:LYS:C	1:A:1032:LYS:HD3	2.42	0.40
1:A:1039:ARG:HD2	1:A:1039:ARG:N	2.25	0.40
1:A:1103:ARG:HG3	1:A:1104:LEU:H	1.81	0.40
2:B:55:THR:O	2:B:56:LEU:HB2	2.21	0.40
2:B:89:MET:HE2	2:B:90:THR:N	2.23	0.40
2:B:561:PRO:CB	2:B:562:ASN:HB2	2.51	0.40
2:B:682:GLU:O	2:B:683:GLU:C	2.60	0.40
3:C:7:ILE:O	3:C:7:ILE:HG13	2.21	0.40
4:D:65:PHE:CE1	7:G:89:ASP:CB	3.04	0.40
5:E:139:ILE:CG1	5:E:140:THR:N	2.85	0.40
7:G:80:TRP:HZ3	7:G:107:LEU:CD2	2.34	0.40
1:M:59:ARG:H	1:M:60:LEU:CD2	2.34	0.40
1:M:59:ARG:HB2	1:M:60:LEU:CA	2.49	0.40
1:M:115:LEU:H	1:M:115:LEU:HD12	1.85	0.40
1:M:387:THR:C	1:M:389:TYR:N	2.73	0.40
1:M:526:VAL:O	1:M:526:VAL:CG1	2.67	0.40
1:M:530:VAL:HG12	1:M:531:GLN:H	1.86	0.40
1:M:588:ILE:HD11	1:M:616:GLY:C	2.42	0.40
1:M:656:GLN:HG2	1:M:656:GLN:O	2.21	0.40
1:M:711:GLU:HA	1:M:712:PRO:HA	1.71	0.40
1:M:781:ILE:HG21	1:M:821:PHE:CE2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:876:GLU:OE1	5:Q:199:THR:OG1	2.40	0.40
1:M:902:LYS:C	1:M:1032:LYS:HD3	2.42	0.40
1:M:1165:VAL:O	1:M:1166:ILE:CB	2.69	0.40
1:M:1170:LYS:NZ	1:M:1238:LYS:CG	2.84	0.40
1:M:1388:MET:CE	1:M:1395:ILE:CD1	2.99	0.40
1:M:1505:PHE:N	1:M:1507:PRO:HD2	2.37	0.40
2:N:30:LEU:HD22	2:N:482:ARG:NH2	2.37	0.40
2:N:32:ARG:O	2:N:36:PHE:HB2	2.20	0.40
2:N:385:ASP:O	2:N:386:HIS:C	2.59	0.40
2:N:572:TRP:CG	2:N:572:TRP:O	2.71	0.40
2:N:626:VAL:HG23	2:N:728:THR:O	2.21	0.40
2:N:803:PHE:HZ	2:N:972:ARG:NH2	2.19	0.40
3:O:137:ASP:OD1	3:O:137:ASP:O	2.39	0.40
3:O:155:SER:O	3:O:156:LEU:HD23	2.21	0.40
3:O:215:ARG:O	3:O:215:ARG:HG3	2.20	0.40
5:Q:98:ASN:N	5:Q:98:ASN:HD22	2.18	0.40
7:S:62:VAL:HA	7:S:69:ALA:HA	2.02	0.40
9:U:70:ARG:HG3	9:U:84:VAL:HG22	2.03	0.40
1:A:91:PRO:CG	1:A:211:LEU:HB2	2.51	0.40
1:A:118:ASP:HB2	1:A:120:SER:HA	2.02	0.40
1:A:151:ASP:HB2	1:A:172:HIS:HE2	1.87	0.40
1:A:221:SER:HB2	1:A:224:ASP:CG	2.41	0.40
1:A:530:VAL:HG12	1:A:531:GLN:H	1.86	0.40
1:A:922:GLU:CB	1:A:923:ASN:C	2.89	0.40
1:A:1010:THR:HG22	1:A:1010:THR:O	2.21	0.40
1:A:1161:PRO:CG	1:A:1190:LYS:HB3	2.51	0.40
1:A:1182:GLU:O	1:A:1183:GLU:CB	2.70	0.40
2:B:42:VAL:CA	2:B:43:GLN:C	2.89	0.40
2:B:386:HIS:HA	2:B:388:GLY:N	2.36	0.40
2:B:728:THR:CG2	2:B:729:HIS:N	2.84	0.40
2:B:758:TYR:C	2:B:760:SER:N	2.75	0.40
2:B:803:PHE:HZ	2:B:972:ARG:NH2	2.19	0.40
2:B:823:ASN:HB3	2:B:829:ILE:CG2	2.30	0.40
2:B:841:ARG:NE	3:C:64:HIS:CE1	2.90	0.40
2:B:991:SER:CB	2:B:1061:MET:HA	2.51	0.40
3:C:75:ASN:C	3:C:76:ILE:HG13	2.41	0.40
3:C:222:PHE:C	3:C:224:GLU:N	2.75	0.40
5:E:196:ARG:O	5:E:197:SER:O	2.39	0.40
10:J:35:LEU:HB2	10:J:40:LEU:HD12	2.03	0.40
11:K:108:TRP:CZ3	11:K:112:MET:HG3	2.56	0.40
1:M:104:ILE:HG23	1:M:107:CYS:HB2	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:190:TRP:CZ3	1:M:204:GLU:O	2.74	0.40
1:M:242:ILE:HG12	2:N:1199:ASN:OD1	2.22	0.40
1:M:425:LYS:HZ3	1:M:430:ILE:HG13	1.74	0.40
1:M:551:ALA:HB1	1:M:554:ASN:CB	2.51	0.40
1:M:669:SER:HA	2:N:1003:PRO:CG	2.51	0.40
1:M:770:CYS:O	1:M:771:VAL:HG22	2.18	0.40
1:M:773:GLN:HB2	1:M:805:PHE:CA	2.51	0.40
1:M:808:ASN:OD1	2:N:716:VAL:N	2.55	0.40
1:M:963:VAL:C	1:M:965:ARG:N	2.74	0.40
1:M:985:LEU:HD13	1:M:987:SER:H	1.85	0.40
1:M:1160:ASP:C	1:M:1162:GLN:N	2.75	0.40
1:M:1191:GLN:O	1:M:1246:ILE:CB	2.70	0.40
1:M:1347:ILE:O	1:M:1350:THR:CG2	2.69	0.40
1:M:1347:ILE:HG23	1:M:1348:GLU:N	2.36	0.40
2:N:37:SER:O	2:N:396:GLY:HA2	2.22	0.40
2:N:561:PRO:CB	2:N:562:ASN:HB2	2.51	0.40
2:N:576:HIS:CD2	2:N:577:ARG:C	2.95	0.40
2:N:704:TYR:O	2:N:705:GLU:C	2.60	0.40
2:N:991:SER:CB	2:N:1061:MET:HA	2.51	0.40
3:O:131:GLY:O	3:O:132:HIS:C	2.60	0.40
4:P:61:TYR:CE1	7:S:105:GLY:N	2.89	0.40
5:Q:51:ASN:O	5:Q:52:LEU:O	2.40	0.40
11:W:96:HIS:CD2	11:W:96:HIS:O	2.75	0.40
1:A:257:SER:C	1:A:259:ASP:N	2.72	0.40
1:A:306:VAL:O	1:A:306:VAL:CG1	2.69	0.40
1:A:581:LYS:O	1:A:582:GLN:O	2.39	0.40
1:A:816:PRO:CD	2:B:1036:PHE:CD2	3.05	0.40
1:A:846:ARG:HD2	1:A:1390:ILE:C	2.34	0.40
1:A:926:SER:O	1:A:927:VAL:C	2.59	0.40
1:A:971:LEU:N	1:A:971:LEU:HD23	2.37	0.40
1:A:1170:LYS:NZ	1:A:1238:LYS:CG	2.84	0.40
1:A:1413:GLU:O	1:A:1416:MET:N	2.55	0.40
1:A:1465:VAL:HA	1:A:1466:PRO:HA	1.89	0.40
2:B:747:PHE:HE1	2:B:1033:ALA:CB	2.34	0.40
2:B:850:ASP:OD2	2:B:903:LYS:HE3	2.21	0.40
2:B:854:LYS:NZ	2:B:860:MET:SD	2.92	0.40
2:B:937:ILE:HB	2:B:938:VAL:H	1.78	0.40
2:B:975:GLN:HA	2:B:975:GLN:NE2	2.36	0.40
2:B:1028:GLY:HA2	10:J:50:LEU:HD11	2.02	0.40
2:B:1056:ARG:HH12	3:C:201:GLU:HB3	1.86	0.40
2:B:1189:LYS:HE2	2:B:1193:GLN:HE22	1.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:174:THR:O	3:C:174:THR:HG23	2.21	0.40
3:C:238:SER:OG	3:C:239:ILE:N	2.52	0.40
4:D:132:LYS:CA	4:D:134:GLN:CB	3.00	0.40
5:E:47:GLY:O	5:E:49:GLY:O	2.39	0.40
6:F:72:THR:HA	6:F:73:PRO:HD3	1.86	0.40
6:F:98:LEU:HD23	6:F:98:LEU:HA	1.88	0.40
7:G:140:LYS:CG	7:G:140:LYS:O	2.70	0.40
8:H:23:ARG:N	8:H:23:ARG:HD2	2.37	0.40
8:H:109:ARG:HA	8:H:110:LYS:HA	1.85	0.40
9:I:56:THR:O	9:I:57:THR:C	2.60	0.40
11:K:44:MET:C	11:K:46:ALA:H	2.23	0.40
11:K:94:ILE:HG13	11:K:95:THR:N	2.36	0.40
1:M:10:SER:HB2	1:M:11:VAL:H	1.50	0.40
1:M:86:ILE:O	1:M:88:LEU:HD23	2.20	0.40
1:M:153:GLY:O	1:M:154:LEU:O	2.39	0.40
1:M:388:PRO:CA	1:M:434:TYR:HE2	2.34	0.40
1:M:422:ARG:HB3	1:M:423:TYR:H	1.71	0.40
1:M:793:PHE:CZ	1:M:802:SER:HB2	2.57	0.40
1:M:887:GLN:HE22	1:M:964:GLN:HB2	1.86	0.40
1:M:959:LEU:HD21	1:M:1020:LEU:HD22	2.03	0.40
1:M:1337:SER:O	1:M:1341:ILE:HG13	2.22	0.40
2:N:307:ALA:C	2:N:309:VAL:H	2.25	0.40
2:N:540:ILE:CG1	2:N:541:ILE:N	2.84	0.40
2:N:975:GLN:HA	2:N:975:GLN:HE21	1.86	0.40
2:N:1084:LEU:HD23	2:N:1084:LEU:HA	1.64	0.40
2:N:1095:ARG:NH1	2:N:1098:GLY:H	2.19	0.40
4:P:34:ILE:O	4:P:38:LEU:HG	2.22	0.40
4:P:61:TYR:CD2	7:S:105:GLY:CA	3.05	0.40
4:P:132:LYS:CB	4:P:134:GLN:HB3	2.52	0.40
6:R:74:TYR:CD1	6:R:74:TYR:N	2.90	0.40
7:S:20:GLY:HA2	7:S:21:PRO:HD3	1.96	0.40
8:T:117:ASP:C	8:T:118:HIS:O	2.59	0.40
9:U:79:HIS:O	9:U:79:HIS:CD2	2.75	0.40
10:V:45:CYS:O	10:V:48:MET:N	2.55	0.40
11:W:108:TRP:CZ3	11:W:112:MET:HG3	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1494/1752 (85%)	939 (63%)	280 (19%)	275 (18%)	0	1
1	M	1472/1752 (84%)	932 (63%)	281 (19%)	259 (18%)	0	2
2	B	1142/1210 (94%)	735 (64%)	245 (22%)	162 (14%)	0	3
2	N	1142/1210 (94%)	738 (65%)	243 (21%)	161 (14%)	0	3
3	C	261/297 (88%)	178 (68%)	56 (22%)	27 (10%)	0	7
3	O	261/297 (88%)	178 (68%)	56 (22%)	27 (10%)	0	7
4	D	128/135 (95%)	86 (67%)	20 (16%)	22 (17%)	0	2
4	P	128/135 (95%)	86 (67%)	20 (16%)	22 (17%)	0	2
5	E	205/210 (98%)	137 (67%)	43 (21%)	25 (12%)	0	5
5	Q	205/210 (98%)	137 (67%)	43 (21%)	25 (12%)	0	5
6	F	81/142 (57%)	58 (72%)	15 (18%)	8 (10%)	0	8
6	R	81/142 (57%)	57 (70%)	16 (20%)	8 (10%)	0	8
7	G	168/172 (98%)	128 (76%)	24 (14%)	16 (10%)	0	8
7	S	168/172 (98%)	128 (76%)	24 (14%)	16 (10%)	0	8
8	H	122/125 (98%)	73 (60%)	27 (22%)	22 (18%)	0	1
8	T	122/125 (98%)	73 (60%)	27 (22%)	22 (18%)	0	1
9	I	109/113 (96%)	46 (42%)	27 (25%)	36 (33%)	0	0
9	U	109/113 (96%)	45 (41%)	25 (23%)	39 (36%)	0	0
10	J	62/71 (87%)	41 (66%)	15 (24%)	6 (10%)	0	8
10	V	62/71 (87%)	41 (66%)	15 (24%)	6 (10%)	0	8
11	K	117/123 (95%)	80 (68%)	24 (20%)	13 (11%)	0	5
11	W	117/123 (95%)	80 (68%)	24 (20%)	13 (11%)	0	5
12	L	43/63 (68%)	23 (54%)	12 (28%)	8 (19%)	0	1
12	X	43/63 (68%)	23 (54%)	12 (28%)	8 (19%)	0	1
All	All	7842/8826 (89%)	5042 (64%)	1574 (20%)	1226 (16%)	0	3

All (1226) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	10	SER
1	A	12	PRO
1	A	37	ILE
1	A	42	THR
1	A	50	PRO
1	A	52	VAL
1	A	57	ASP
1	A	58	PRO
1	A	66	GLN
1	A	69	CYS
1	A	87	GLU
1	A	88	LEU
1	A	91	PRO
1	A	95	ILE
1	A	105	LEU
1	A	106	GLU
1	A	117	ILE
1	A	148	MET
1	A	152	THR
1	A	154	LEU
1	A	169	ASN
1	A	175	CYS
1	A	177	ALA
1	A	179	GLN
1	A	197	LYS
1	A	199	GLU
1	A	202	LEU
1	A	256	ILE
1	A	258	VAL
1	A	261	THR
1	A	262	SER
1	A	263	ARG
1	A	267	ASP
1	A	269	THR
1	A	270	HIS
1	A	319	GLN
1	A	338	LYS
1	A	341	ARG
1	A	342	LEU
1	A	350	ARG
1	A	351	VAL
1	A	383	PRO

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Mol	Chain	Res	Type
1	A	405	HIS
1	A	410	TYR
1	A	422	ARG
1	A	424	HIS
1	A	425	LYS
1	A	431	PRO
1	A	432	LEU
1	A	433	ARG
1	A	466	ILE
1	A	468	VAL
1	A	469	MET
1	A	507	ILE
1	A	540	PHE
1	A	551	ALA
1	A	559	VAL
1	A	573	LYS
1	A	582	GLN
1	A	599	ASP
1	A	630	ALA
1	A	632	GLN
1	A	709	LYS
1	A	771	VAL
1	A	776	VAL
1	A	794	PRO
1	A	804	GLY
1	A	922	GLU
1	A	948	PHE
1	A	952	LYS
1	A	1088	HIS
1	A	1089	TYR
1	A	1101	VAL
1	A	1115	LYS
1	A	1118	SER
1	A	1151	SER
1	A	1152	ALA
1	A	1159	PRO
1	A	1165	VAL
1	A	1168	GLU
1	A	1181	ASP
1	A	1183	GLU
1	A	1184	VAL
1	A	1189	TYR

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Mol	Chain	Res	Type
1	A	1192	SER
1	A	1256	ASP
1	A	1277	ILE
1	A	1282	VAL
1	A	1283	PRO
1	A	1284	ASN
1	A	1314	THR
1	A	1320	THR
1	A	1368	TYR
1	A	1392	ARG
1	A	1393	HIS
1	A	1395	ILE
1	A	1396	ASN
1	A	1398	ALA
1	A	1403	LEU
1	A	1411	THR
1	A	1413	GLU
1	A	1459	TYR
1	A	1460	SER
1	A	1461	LEU
1	A	1464	ALA
1	A	1466	PRO
1	A	1467	THR
1	A	1486	TYR
1	A	1489	SER
1	A	1490	PRO
1	A	1491	MET
2	B	147	PRO
2	B	199	ALA
2	B	210	VAL
2	B	218	PRO
2	B	221	TYR
2	B	233	SER
2	B	234	ARG
2	B	235	LEU
2	B	244	MET
2	B	310	ILE
2	B	329	VAL
2	B	344	LYS
2	B	353	MET
2	B	426	ARG
2	B	428	PHE

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Mol	Chain	Res	Type
2	B	430	LEU
2	B	456	LYS
2	B	458	SER
2	B	462	ARG
2	B	466	SER
2	B	485	ASN
2	B	486	THR
2	B	498	ARG
2	B	526	SER
2	B	554	ASP
2	B	576	HIS
2	B	580	ALA
2	B	656	ASP
2	B	657	ILE
2	B	659	PRO
2	B	661	GLN
2	B	662	ARG
2	B	663	PHE
2	B	716	VAL
2	B	720	PRO
2	B	750	HIS
2	B	753	SER
2	B	791	PRO
2	B	820	SER
2	B	870	THR
2	B	1010	MET
2	B	1058	PHE
2	B	1096	ALA
2	B	1113	ARG
2	B	1146	ALA
2	B	1207	LYS
2	B	1208	ASN
3	C	124	VAL
3	C	126	SER
3	C	133	PRO
3	C	194	PHE
3	C	198	ALA
3	C	212	GLU
3	C	215	ARG
4	D	15	LEU
4	D	43	ARG
4	D	44	GLU

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Mol	Chain	Res	Type
4	D	48	GLU
4	D	69	LYS
4	D	87	LYS
4	D	112	ALA
4	D	132	LYS
5	E	52	LEU
5	E	55	THR
5	E	58	SER
5	E	76	PHE
5	E	81	SER
5	E	197	SER
6	F	121	PRO
6	F	122	LEU
7	G	20	GLY
7	G	47	ILE
7	G	97	LYS
7	G	127	ASN
7	G	135	ASP
8	H	24	VAL
8	H	37	ASN
8	H	66	PRO
8	H	82	ARG
8	H	114	LEU
8	H	117	ASP
8	H	118	HIS
9	I	7	CYS
9	I	20	LYS
9	I	21	VAL
9	I	23	ARG
9	I	49	GLN
9	I	51	SER
9	I	52	ASN
9	I	54	GLU
9	I	58	VAL
9	I	59	SER
9	I	74	GLU
9	I	79	HIS
9	I	80	GLN
9	I	96	MET
9	I	111	GLU
9	I	112	GLU
10	J	2	ILE

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Mol	Chain	Res	Type
10	J	28	ASP
11	K	79	ASP
12	L	44	CYS
12	L	49	MET
1	M	10	SER
1	M	12	PRO
1	M	37	ILE
1	M	42	THR
1	M	50	PRO
1	M	52	VAL
1	M	57	ASP
1	M	58	PRO
1	M	66	GLN
1	M	69	CYS
1	M	87	GLU
1	M	88	LEU
1	M	91	PRO
1	M	95	ILE
1	M	105	LEU
1	M	106	GLU
1	M	117	ILE
1	M	152	THR
1	M	169	ASN
1	M	175	CYS
1	M	177	ALA
1	M	179	GLN
1	M	197	LYS
1	M	198	ASP
1	M	199	GLU
1	M	202	LEU
1	M	256	ILE
1	M	258	VAL
1	M	261	THR
1	M	262	SER
1	M	263	ARG
1	M	267	ASP
1	M	269	THR
1	M	270	HIS
1	M	319	GLN
1	M	338	LYS
1	M	341	ARG
1	M	350	ARG

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Mol	Chain	Res	Type
1	M	351	VAL
1	M	383	PRO
1	M	391	ILE
1	M	405	HIS
1	M	410	TYR
1	M	422	ARG
1	M	424	HIS
1	M	425	LYS
1	M	431	PRO
1	M	432	LEU
1	M	433	ARG
1	M	466	ILE
1	M	468	VAL
1	M	469	MET
1	M	507	ILE
1	M	540	PHE
1	M	551	ALA
1	M	559	VAL
1	M	573	LYS
1	M	582	GLN
1	M	599	ASP
1	M	630	ALA
1	M	632	GLN
1	M	709	LYS
1	M	771	VAL
1	M	776	VAL
1	M	794	PRO
1	M	804	GLY
1	M	922	GLU
1	M	948	PHE
1	M	952	LYS
1	M	1088	HIS
1	M	1101	VAL
1	M	1115	LYS
1	M	1118	SER
1	M	1131	MET
1	M	1151	SER
1	M	1152	ALA
1	M	1159	PRO
1	M	1165	VAL
1	M	1168	GLU
1	M	1181	ASP

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Mol	Chain	Res	Type
1	M	1183	GLU
1	M	1184	VAL
1	M	1189	TYR
1	M	1192	SER
1	M	1256	ASP
1	M	1277	ILE
1	M	1278	SER
1	M	1280	ARG
1	M	1282	VAL
1	M	1284	ASN
1	M	1314	THR
1	M	1320	THR
1	M	1368	TYR
1	M	1392	ARG
1	M	1395	ILE
1	M	1398	ALA
1	M	1403	LEU
1	M	1411	THR
1	M	1413	GLU
1	M	1500	PRO
2	N	147	PRO
2	N	199	ALA
2	N	210	VAL
2	N	218	PRO
2	N	221	TYR
2	N	233	SER
2	N	234	ARG
2	N	235	LEU
2	N	244	MET
2	N	310	ILE
2	N	322	LYS
2	N	323	ARG
2	N	326	THR
2	N	329	VAL
2	N	344	LYS
2	N	353	MET
2	N	426	ARG
2	N	428	PHE
2	N	430	LEU
2	N	456	LYS
2	N	458	SER
2	N	462	ARG

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Mol	Chain	Res	Type
2	N	466	SER
2	N	485	ASN
2	N	486	THR
2	N	498	ARG
2	N	526	SER
2	N	554	ASP
2	N	576	HIS
2	N	580	ALA
2	N	656	ASP
2	N	657	ILE
2	N	659	PRO
2	N	661	GLN
2	N	662	ARG
2	N	663	PHE
2	N	716	VAL
2	N	720	PRO
2	N	750	HIS
2	N	753	SER
2	N	791	PRO
2	N	820	SER
2	N	870	THR
2	N	1010	MET
2	N	1058	PHE
2	N	1096	ALA
2	N	1113	ARG
2	N	1207	LYS
2	N	1208	ASN
3	O	124	VAL
3	O	126	SER
3	O	133	PRO
3	O	194	PHE
3	O	198	ALA
3	O	212	GLU
3	O	215	ARG
4	P	15	LEU
4	P	43	ARG
4	P	44	GLU
4	P	48	GLU
4	P	69	LYS
4	P	87	LYS
4	P	112	ALA
4	P	132	LYS

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Mol	Chain	Res	Type
5	Q	52	LEU
5	Q	55	THR
5	Q	58	SER
5	Q	76	PHE
5	Q	81	SER
5	Q	197	SER
6	R	121	PRO
6	R	122	LEU
7	S	47	ILE
7	S	97	LYS
7	S	127	ASN
7	S	135	ASP
8	T	24	VAL
8	T	37	ASN
8	T	66	PRO
8	T	82	ARG
8	T	114	LEU
8	T	117	ASP
8	T	118	HIS
9	U	7	CYS
9	U	13	MET
9	U	20	LYS
9	U	21	VAL
9	U	49	GLN
9	U	51	SER
9	U	52	ASN
9	U	54	GLU
9	U	58	VAL
9	U	59	SER
9	U	74	GLU
9	U	79	HIS
9	U	80	GLN
9	U	96	MET
9	U	111	GLU
9	U	112	GLU
10	V	2	ILE
10	V	28	ASP
11	W	79	ASP
12	X	44	CYS
12	X	49	MET
1	A	14	ARG
1	A	24	LEU

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Mol	Chain	Res	Type
1	A	51	ARG
1	A	71	THR
1	A	72	CYS
1	A	78	ASP
1	A	96	GLY
1	A	108	VAL
1	A	115	LEU
1	A	136	ARG
1	A	157	GLY
1	A	162	ASP
1	A	163	LEU
1	A	180	PRO
1	A	198	ASP
1	A	232	GLU
1	A	327	PRO
1	A	329	LYS
1	A	335	LEU
1	A	337	GLY
1	A	428	GLY
1	A	429	ASP
1	A	445	GLY
1	A	485	ASN
1	A	552	VAL
1	A	604	SER
1	A	647	ILE
1	A	710	PRO
1	A	748	ASN
1	A	749	VAL
1	A	784	GLY
1	A	801	GLU
1	A	805	PHE
1	A	810	TYR
1	A	817	GLN
1	A	836	LYS
1	A	909	GLU
1	A	917	MET
1	A	920	SER
1	A	927	VAL
1	A	928	GLN
1	A	949	ILE
1	A	976	LEU
1	A	1062	SER

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Mol	Chain	Res	Type
1	A	1066	MET
1	A	1086	THR
1	A	1092	VAL
1	A	1095	LYS
1	A	1097	VAL
1	A	1119	LEU
1	A	1131	MET
1	A	1150	THR
1	A	1166	ILE
1	A	1170	LYS
1	A	1209	LYS
1	A	1247	ARG
1	A	1248	ASP
1	A	1253	ALA
1	A	1255	ASP
1	A	1262	GLU
1	A	1276	SER
1	A	1280	ARG
1	A	1366	GLY
1	A	1412	VAL
1	A	1475	THR
1	A	1477	GLN
1	A	1480	GLU
1	A	1483	GLY
2	B	105	ARG
2	B	108	ASN
2	B	148	SER
2	B	181	PRO
2	B	214	ALA
2	B	226	ARG
2	B	237	SER
2	B	280	ASP
2	B	293	ASP
2	B	299	MET
2	B	319	TYR
2	B	323	ARG
2	B	331	ARG
2	B	350	ILE
2	B	431	THR
2	B	470	ASN
2	B	481	LEU
2	B	491	ASP

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Mol	Chain	Res	Type
2	B	495	ALA
2	B	499	GLN
2	B	510	PRO
2	B	655	TYR
2	B	701	GLN
2	B	705	GLU
2	B	713	ALA
2	B	781	MET
2	B	792	LEU
2	B	813	ILE
2	B	825	GLU
2	B	868	ARG
2	B	871	THR
2	B	877	GLY
2	B	896	GLY
2	B	1006	ILE
2	B	1055	SER
2	B	1056	ARG
2	B	1086	HIS
2	B	1089	ASP
2	B	1110	GLY
2	B	1118	ARG
2	B	1172	SER
2	B	1205	PHE
3	C	128	SER
3	C	141	ARG
3	C	150	LYS
3	C	199	ASP
3	C	200	ALA
3	C	244	ILE
4	D	66	ALA
4	D	81	LEU
4	D	118	GLN
4	D	134	GLN
5	E	22	VAL
5	E	25	ARG
5	E	48	MET
5	E	50	ARG
5	E	67	SER
5	E	69	LYS
5	E	98	ASN
5	E	119	ALA

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Mol	Chain	Res	Type
5	E	129	THR
5	E	176	ALA
6	F	61	GLY
6	F	62	LYS
6	F	63	ALA
6	F	94	ASN
7	G	128	PRO
7	G	134	GLU
8	H	55	PHE
8	H	63	LEU
8	H	90	LYS
8	H	111	LEU
9	I	34	TYR
9	I	56	THR
9	I	60	HIS
9	I	73	LYS
9	I	76	PRO
9	I	86	TYR
9	I	98	THR
9	I	106	CYS
9	I	109	ALA
10	J	43	TYR
10	J	44	CYS
11	K	59	GLY
11	K	76	THR
12	L	36	LYS
12	L	48	VAL
12	L	57	MET
1	M	14	ARG
1	M	24	LEU
1	M	71	THR
1	M	72	CYS
1	M	78	ASP
1	M	96	GLY
1	M	108	VAL
1	M	115	LEU
1	M	136	ARG
1	M	154	LEU
1	M	157	GLY
1	M	162	ASP
1	M	163	LEU
1	M	232	GLU

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Mol	Chain	Res	Type
1	M	254	PRO
1	M	327	PRO
1	M	329	LYS
1	M	335	LEU
1	M	337	GLY
1	M	342	LEU
1	M	428	GLY
1	M	445	GLY
1	M	485	ASN
1	M	552	VAL
1	M	604	SER
1	M	647	ILE
1	M	710	PRO
1	M	748	ASN
1	M	749	VAL
1	M	784	GLY
1	M	801	GLU
1	M	805	PHE
1	M	810	TYR
1	M	836	LYS
1	M	909	GLU
1	M	917	MET
1	M	920	SER
1	M	927	VAL
1	M	928	GLN
1	M	949	ILE
1	M	976	LEU
1	M	1062	SER
1	M	1066	MET
1	M	1086	THR
1	M	1089	TYR
1	M	1092	VAL
1	M	1093	SER
1	M	1095	LYS
1	M	1097	VAL
1	M	1119	LEU
1	M	1150	THR
1	M	1166	ILE
1	M	1170	LYS
1	M	1209	LYS
1	M	1247	ARG
1	M	1248	ASP

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Mol	Chain	Res	Type
1	M	1253	ALA
1	M	1255	ASP
1	M	1262	GLU
1	M	1283	PRO
1	M	1366	GLY
1	M	1393	HIS
1	M	1396	ASN
1	M	1412	VAL
1	M	1501	ASP
1	M	1502	ALA
2	N	105	ARG
2	N	108	ASN
2	N	148	SER
2	N	181	PRO
2	N	214	ALA
2	N	226	ARG
2	N	237	SER
2	N	280	ASP
2	N	293	ASP
2	N	299	MET
2	N	319	TYR
2	N	350	ILE
2	N	431	THR
2	N	470	ASN
2	N	481	LEU
2	N	491	ASP
2	N	495	ALA
2	N	499	GLN
2	N	510	PRO
2	N	655	TYR
2	N	701	GLN
2	N	705	GLU
2	N	713	ALA
2	N	781	MET
2	N	792	LEU
2	N	813	ILE
2	N	825	GLU
2	N	868	ARG
2	N	871	THR
2	N	877	GLY
2	N	893	ARG
2	N	896	GLY

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Mol	Chain	Res	Type
2	N	1006	ILE
2	N	1055	SER
2	N	1056	ARG
2	N	1086	HIS
2	N	1089	ASP
2	N	1110	GLY
2	N	1118	ARG
2	N	1172	SER
2	N	1205	PHE
3	O	128	SER
3	O	141	ARG
3	O	150	LYS
3	O	199	ASP
3	O	200	ALA
3	O	244	ILE
4	P	66	ALA
4	P	81	LEU
4	P	118	GLN
4	P	134	GLN
5	Q	22	VAL
5	Q	25	ARG
5	Q	48	MET
5	Q	50	ARG
5	Q	67	SER
5	Q	69	LYS
5	Q	98	ASN
5	Q	119	ALA
5	Q	129	THR
5	Q	176	ALA
6	R	61	GLY
6	R	62	LYS
6	R	94	ASN
7	S	20	GLY
7	S	128	PRO
7	S	134	GLU
8	T	55	PHE
8	T	63	LEU
8	T	90	LYS
8	T	111	LEU
9	U	23	ARG
9	U	34	TYR
9	U	56	THR

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Mol	Chain	Res	Type
9	U	60	HIS
9	U	73	LYS
9	U	76	PRO
9	U	86	TYR
9	U	98	THR
9	U	106	CYS
9	U	109	ALA
10	V	43	TYR
10	V	44	CYS
11	W	59	GLY
11	W	76	THR
12	X	36	LYS
12	X	48	VAL
12	X	57	MET
1	A	39	PHE
1	A	40	PRO
1	A	109	CYS
1	A	130	TYR
1	A	165	ASN
1	A	210	PRO
1	A	254	PRO
1	A	259	ASP
1	A	382	TYR
1	A	384	GLU
1	A	391	ILE
1	A	427	ALA
1	A	489	ASP
1	A	513	VAL
1	A	615	ASN
1	A	708	LEU
1	A	713	GLY
1	A	875	GLY
1	A	950	PHE
1	A	954	ASP
1	A	1042	LYS
1	A	1065	GLU
1	A	1090	ALA
1	A	1093	SER
1	A	1098	THR
1	A	1099	LEU
1	A	1102	PRO
1	A	1164	THR

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Mol	Chain	Res	Type
1	A	1186	GLU
1	A	1239	LEU
1	A	1260	ILE
1	A	1264	VAL
1	A	1265	PHE
1	A	1286	THR
1	A	1294	LYS
1	A	1339	VAL
1	A	1409	GLU
1	A	1426	ASP
1	A	1472	GLY
1	A	1473	MET
2	B	11	THR
2	B	34	GLN
2	B	167	ASN
2	B	211	PHE
2	B	220	ALA
2	B	240	GLN
2	B	243	LEU
2	B	245	ALA
2	B	248	THR
2	B	276	GLY
2	B	292	ASN
2	B	387	PHE
2	B	394	LEU
2	B	467	GLN
2	B	496	LYS
2	B	539	PRO
2	B	556	ASN
2	B	614	THR
2	B	621	ARG
2	B	627	ASP
2	B	660	GLU
2	B	712	PRO
2	B	821	GLY
2	B	872	LEU
2	B	893	ARG
2	B	1025	ALA
2	B	1078	PRO
2	B	1163	TYR
2	B	1206	THR
3	C	41	PRO

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Mol	Chain	Res	Type
3	C	184	TRP
3	C	240	PRO
3	C	242	ASN
4	D	11	ALA
4	D	84	ARG
4	D	99	GLU
4	D	131	ARG
4	D	133	PHE
5	E	54	ARG
5	E	65	ASN
5	E	86	GLU
5	E	109	SER
5	E	117	ILE
5	E	167	GLU
6	F	107	PRO
7	G	66	GLN
7	G	102	ALA
7	G	103	ASN
7	G	106	PRO
8	H	81	TYR
8	H	115	SER
9	I	9	GLU
9	I	11	ASN
9	I	78	CYS
9	I	89	HIS
9	I	95	THR
10	J	5	ILE
11	K	47	ASN
11	K	81	SER
1	M	39	PHE
1	M	40	PRO
1	M	51	ARG
1	M	97	PHE
1	M	130	TYR
1	M	165	ASN
1	M	180	PRO
1	M	245	LEU
1	M	259	ASP
1	M	382	TYR
1	M	384	GLU
1	M	427	ALA
1	M	429	ASP

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Mol	Chain	Res	Type
1	M	489	ASP
1	M	513	VAL
1	M	597	ASP
1	M	615	ASN
1	M	713	GLY
1	M	817	GLN
1	M	875	GLY
1	M	950	PHE
1	M	954	ASP
1	M	1042	LYS
1	M	1065	GLU
1	M	1090	ALA
1	M	1098	THR
1	M	1099	LEU
1	M	1102	PRO
1	M	1164	THR
1	M	1186	GLU
1	M	1239	LEU
1	M	1260	ILE
1	M	1264	VAL
1	M	1265	PHE
1	M	1279	LEU
1	M	1286	THR
1	M	1294	LYS
1	M	1308	ASP
1	M	1339	VAL
1	M	1409	GLU
1	M	1426	ASP
2	N	11	THR
2	N	34	GLN
2	N	167	ASN
2	N	211	PHE
2	N	220	ALA
2	N	240	GLN
2	N	243	LEU
2	N	245	ALA
2	N	248	THR
2	N	276	GLY
2	N	292	ASN
2	N	387	PHE
2	N	394	LEU
2	N	467	GLN

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Mol	Chain	Res	Type
2	N	496	LYS
2	N	539	PRO
2	N	556	ASN
2	N	614	THR
2	N	621	ARG
2	N	627	ASP
2	N	658	ASP
2	N	660	GLU
2	N	712	PRO
2	N	821	GLY
2	N	872	LEU
2	N	1025	ALA
2	N	1078	PRO
2	N	1163	TYR
2	N	1206	THR
3	O	41	PRO
3	O	113	GLY
3	O	184	TRP
3	O	240	PRO
3	O	242	ASN
4	P	11	ALA
4	P	16	GLY
4	P	84	ARG
4	P	99	GLU
4	P	131	ARG
4	P	133	PHE
5	Q	54	ARG
5	Q	65	ASN
5	Q	86	GLU
5	Q	109	SER
5	Q	117	ILE
6	R	63	ALA
6	R	107	PRO
7	S	66	GLN
7	S	102	ALA
7	S	103	ASN
7	S	106	PRO
8	T	81	TYR
8	T	115	SER
9	U	9	GLU
9	U	78	CYS
9	U	89	HIS

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Mol	Chain	Res	Type
9	U	95	THR
10	V	5	ILE
11	W	47	ASN
11	W	81	SER
1	A	9	SER
1	A	70	GLN
1	A	170	MET
1	A	206	ARG
1	A	238	ASP
1	A	245	LEU
1	A	318	PRO
1	A	380	LEU
1	A	435	GLY
1	A	531	GLN
1	A	597	ASP
1	A	619	ILE
1	A	646	GLU
1	A	781	ILE
1	A	858	TYR
1	A	1144	THR
1	A	1167	GLU
1	A	1263	ASP
1	A	1279	LEU
1	A	1303	THR
1	A	1327	GLY
1	A	1479	PRO
2	B	29	SER
2	B	36	PHE
2	B	104	ALA
2	B	205	ALA
2	B	216	PRO
2	B	230	GLU
2	B	239	MET
2	B	281	ARG
2	B	332	GLU
2	B	382	ASP
2	B	459	MET
2	B	631	ASN
2	B	658	ASP
2	B	724	VAL
2	B	1114	ASP
2	B	1156	GLY

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Mol	Chain	Res	Type
2	B	1186	TYR
2	B	1209	HIS
3	C	113	GLY
3	C	168	HIS
3	C	175	SER
4	D	16	GLY
5	E	26	GLY
5	E	49	GLY
5	E	133	SER
7	G	21	PRO
7	G	52	SER
7	G	129	PRO
8	H	43	ASN
8	H	54	THR
8	H	59	ILE
9	I	82	GLU
9	I	91	ARG
9	I	107	GLY
11	K	22	LEU
11	K	36	LYS
11	K	40	THR
11	K	45	LEU
12	L	37	GLU
12	L	55	LYS
1	M	9	SER
1	M	70	GLN
1	M	170	MET
1	M	178	ALA
1	M	200	SER
1	M	238	ASP
1	M	317	GLN
1	M	318	PRO
1	M	344	GLY
1	M	380	LEU
1	M	435	GLY
1	M	531	GLN
1	M	619	ILE
1	M	646	GLU
1	M	708	LEU
1	M	781	ILE
1	M	858	TYR
1	M	1167	GLU

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Mol	Chain	Res	Type
1	M	1263	ASP
1	M	1303	THR
1	M	1327	GLY
2	N	29	SER
2	N	36	PHE
2	N	104	ALA
2	N	205	ALA
2	N	216	PRO
2	N	230	GLU
2	N	239	MET
2	N	281	ARG
2	N	382	ASP
2	N	459	MET
2	N	631	ASN
2	N	724	VAL
2	N	1114	ASP
2	N	1156	GLY
2	N	1186	TYR
2	N	1209	HIS
3	O	168	HIS
3	O	175	SER
5	Q	26	GLY
5	Q	49	GLY
5	Q	133	SER
5	Q	167	GLU
7	S	21	PRO
7	S	52	SER
7	S	129	PRO
8	T	43	ASN
8	T	54	THR
8	T	59	ILE
9	U	11	ASN
9	U	26	ARG
9	U	82	GLU
9	U	91	ARG
9	U	107	GLY
11	W	22	LEU
11	W	36	LYS
11	W	40	THR
11	W	45	LEU
12	X	37	GLU
12	X	55	LYS

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Mol	Chain	Res	Type
1	A	11	VAL
1	A	97	PHE
1	A	268	LEU
1	A	317	GLN
1	A	344	GLY
1	A	667	GLY
1	A	673	GLY
1	A	711	GLU
1	A	783	PHE
1	A	1038	TYR
1	A	1116	THR
1	A	1130	ASN
1	A	1145	THR
1	A	1308	ASP
1	A	1421	SER
2	B	12	LEU
2	B	56	LEU
2	B	107	ARG
2	B	228	ALA
2	B	429	ASN
2	B	487	PRO
2	B	538	ALA
2	B	605	ILE
2	B	737	ILE
2	B	929	PRO
2	B	949	GLY
2	B	989	PRO
2	B	1030	GLU
2	B	1169	GLU
3	C	86	TYR
3	C	100	SER
3	C	169	ALA
3	C	214	PRO
3	C	222	PHE
4	D	68	PHE
4	D	116	ASP
7	G	64	PRO
8	H	30	VAL
8	H	113	ARG
8	H	120	TYR
9	I	75	CYS
10	J	63	ASN

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Mol	Chain	Res	Type
11	K	60	TYR
11	K	70	PHE
11	K	77	VAL
1	M	11	VAL
1	M	255	SER
1	M	268	LEU
1	M	667	GLY
1	M	673	GLY
1	M	711	GLU
1	M	783	PHE
1	M	1038	TYR
1	M	1116	THR
1	M	1130	ASN
1	M	1421	SER
2	N	12	LEU
2	N	56	LEU
2	N	107	ARG
2	N	228	ALA
2	N	429	ASN
2	N	487	PRO
2	N	538	ALA
2	N	737	ILE
2	N	929	PRO
2	N	949	GLY
2	N	989	PRO
2	N	1030	GLU
2	N	1169	GLU
3	O	86	TYR
3	O	100	SER
3	O	169	ALA
3	O	214	PRO
3	O	222	PHE
4	P	68	PHE
4	P	116	ASP
7	S	64	PRO
8	T	30	VAL
8	T	113	ARG
8	T	120	TYR
9	U	75	CYS
10	V	63	ASN
11	W	60	TYR
11	W	70	PHE

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Mol	Chain	Res	Type
11	W	77	VAL
1	A	7	SER
1	A	209	SER
1	A	813	GLY
1	A	816	PRO
1	A	961	VAL
1	A	1009	ILE
1	A	1434	ILE
2	B	145	GLU
2	B	247	ASN
2	B	550	GLU
4	D	98	CYS
8	H	61	SER
12	L	32	THR
1	M	7	SER
1	M	209	SER
1	M	210	PRO
1	M	813	GLY
1	M	961	VAL
1	M	1009	ILE
1	M	1276	SER
1	M	1434	ILE
2	N	145	GLU
2	N	247	ASN
2	N	550	GLU
2	N	605	ILE
4	P	98	CYS
8	T	61	SER
12	X	32	THR
1	A	406	PRO
1	A	514	PRO
1	A	589	PRO
1	A	1052	VAL
1	A	1110	VAL
1	A	1124	MET
2	B	42	VAL
2	B	232	GLY
2	B	434	VAL
2	B	560	SER
11	K	118	VAL
1	M	406	PRO
1	M	514	PRO

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Mol	Chain	Res	Type
1	M	589	PRO
1	M	1052	VAL
1	M	1110	VAL
1	M	1124	MET
2	N	42	VAL
2	N	232	GLY
2	N	397	PRO
2	N	434	VAL
2	N	560	SER
11	W	118	VAL
1	A	176	GLY
2	B	453	GLY
2	B	855	ILE
2	B	1108	VAL
3	C	258	VAL
2	N	453	GLY
2	N	855	ILE
2	N	1108	VAL
3	O	258	VAL
9	U	65	ASP
1	A	1414	ILE
2	B	397	PRO
9	I	65	ASP
1	M	1414	ILE
1	A	470	PRO
1	A	1180	PRO
4	D	17	PRO
7	G	148	ILE
8	H	83	VAL
9	I	53	VAL
1	M	470	PRO
1	M	1180	PRO
2	N	208	VAL
4	P	17	PRO
7	S	148	ILE
8	T	83	VAL
8	T	98	GLY
9	U	16	PRO
9	U	53	VAL
2	B	208	VAL
6	F	96	PRO
8	H	98	GLY

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Mol	Chain	Res	Type
1	M	237	PRO
6	R	96	PRO
3	C	80	PRO
3	O	80	PRO
1	A	712	PRO
1	M	712	PRO
1	M	1063	PRO
1	A	1063	PRO

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1301/1536 (85%)	1113 (86%)	188 (14%)	3 18
1	M	1286/1536 (84%)	1097 (85%)	189 (15%)	3 18
2	B	1012/1064 (95%)	914 (90%)	98 (10%)	8 33
2	N	1012/1064 (95%)	914 (90%)	98 (10%)	8 33
3	C	236/267 (88%)	220 (93%)	16 (7%)	16 47
3	O	236/267 (88%)	220 (93%)	16 (7%)	16 47
4	D	111/115 (96%)	94 (85%)	17 (15%)	2 17
4	P	111/115 (96%)	94 (85%)	17 (15%)	2 17
5	E	182/184 (99%)	169 (93%)	13 (7%)	14 45
5	Q	182/184 (99%)	169 (93%)	13 (7%)	14 45
6	F	71/121 (59%)	64 (90%)	7 (10%)	8 32
6	R	71/121 (59%)	64 (90%)	7 (10%)	8 32
7	G	146/148 (99%)	139 (95%)	7 (5%)	25 56
7	S	146/148 (99%)	139 (95%)	7 (5%)	25 56
8	H	113/114 (99%)	99 (88%)	14 (12%)	4 23
8	T	113/114 (99%)	99 (88%)	14 (12%)	4 23
9	I	103/105 (98%)	80 (78%)	23 (22%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
9	U	103/105 (98%)	80 (78%)	23 (22%)	1 6
10	J	59/66 (89%)	46 (78%)	13 (22%)	1 6
10	V	59/66 (89%)	46 (78%)	13 (22%)	1 6
11	K	109/113 (96%)	104 (95%)	5 (5%)	27 57
11	W	109/113 (96%)	103 (94%)	6 (6%)	21 53
12	L	39/53 (74%)	34 (87%)	5 (13%)	4 22
12	X	39/53 (74%)	34 (87%)	5 (13%)	4 22
All	All	6949/7772 (89%)	6135 (88%)	814 (12%)	5 26

All (814) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	SER
1	A	10	SER
1	A	15	ARG
1	A	36	LYS
1	A	39	PHE
1	A	43	MET
1	A	46	SER
1	A	48	GLN
1	A	49	ARG
1	A	51	ARG
1	A	56	LEU
1	A	66	GLN
1	A	67	PHE
1	A	68	LYS
1	A	72	CYS
1	A	85	HIS
1	A	86	ILE
1	A	87	GLU
1	A	88	LEU
1	A	106	GLU
1	A	116	LYS
1	A	117	ILE
1	A	118	ASP
1	A	119	SER
1	A	121	ASN
1	A	150	CYS
1	A	154	LEU
1	A	155	SER

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Mol	Chain	Res	Type
1	A	158	SER
1	A	159	ASP
1	A	163	LEU
1	A	164	SER
1	A	169	ASN
1	A	188	ARG
1	A	195	ARG
1	A	197	LYS
1	A	200	SER
1	A	202	LEU
1	A	204	GLU
1	A	205	LYS
1	A	206	ARG
1	A	207	LEU
1	A	208	LEU
1	A	232	GLU
1	A	253	ARG
1	A	256	ILE
1	A	257	SER
1	A	258	VAL
1	A	262	SER
1	A	263	ARG
1	A	266	ASP
1	A	267	ASP
1	A	268	LEU
1	A	269	THR
1	A	271	LYS
1	A	322	GLN
1	A	326	ARG
1	A	328	LEU
1	A	329	LYS
1	A	330	SER
1	A	335	LEU
1	A	341	ARG
1	A	357	THR
1	A	363	PRO
1	A	374	ARG
1	A	375	SER
1	A	385	THR
1	A	398	VAL
1	A	421	LEU
1	A	426	ARG

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Mol	Chain	Res	Type
1	A	430	ILE
1	A	434	TYR
1	A	436	TRP
1	A	442	ILE
1	A	452	ARG
1	A	459	MET
1	A	460	SER
1	A	472	SER
1	A	475	ARG
1	A	476	LEU
1	A	479	SER
1	A	495	MET
1	A	507	ILE
1	A	511	THR
1	A	513	VAL
1	A	523	ASN
1	A	533	THR
1	A	534	LEU
1	A	552	VAL
1	A	555	ILE
1	A	559	VAL
1	A	579	THR
1	A	583	ILE
1	A	592	ILE
1	A	605	ASN
1	A	618	ILE
1	A	639	ILE
1	A	655	ILE
1	A	663	LEU
1	A	669	SER
1	A	682	MET
1	A	686	THR
1	A	707	ARG
1	A	708	LEU
1	A	717	ARG
1	A	730	GLN
1	A	732	ARG
1	A	733	ASP
1	A	758	LYS
1	A	762	ILE
1	A	764	ILE
1	A	770	CYS

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Mol	Chain	Res	Type
1	A	773	GLN
1	A	775	ILE
1	A	776	VAL
1	A	781	ILE
1	A	785	PHE
1	A	801	GLU
1	A	802	SER
1	A	817	GLN
1	A	827	ARG
1	A	833	THR
1	A	837	THR
1	A	843	ILE
1	A	846	ARG
1	A	857	ARG
1	A	861	THR
1	A	864	ASN
1	A	869	ILE
1	A	886	TYR
1	A	905	ILE
1	A	919	ASN
1	A	921	ILE
1	A	922	GLU
1	A	946	CYS
1	A	947	LYS
1	A	948	PHE
1	A	969	ASN
1	A	985	LEU
1	A	989	ILE
1	A	1001	THR
1	A	1086	THR
1	A	1087	PHE
1	A	1089	TYR
1	A	1093	SER
1	A	1095	LYS
1	A	1097	VAL
1	A	1098	THR
1	A	1103	ARG
1	A	1104	LEU
1	A	1112	LYS
1	A	1114	ILE
1	A	1119	LEU
1	A	1127	ILE

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Mol	Chain	Res	Type
1	A	1140	GLN
1	A	1160	ASP
1	A	1162	GLN
1	A	1166	ILE
1	A	1169	ASP
1	A	1183	GLU
1	A	1246	ILE
1	A	1248	ASP
1	A	1250	ASP
1	A	1260	ILE
1	A	1261	GLU
1	A	1277	ILE
1	A	1309	GLU
1	A	1314	THR
1	A	1323	MET
1	A	1328	VAL
1	A	1341	ILE
1	A	1347	ILE
1	A	1350	THR
1	A	1351	ARG
1	A	1355	LEU
1	A	1374	LEU
1	A	1387	LEU
1	A	1395	ILE
1	A	1397	ARG
1	A	1399	GLU
1	A	1400	THR
1	A	1403	LEU
1	A	1411	THR
1	A	1442	MET
1	A	1444	THR
1	A	1449	ILE
1	A	1459	TYR
1	A	1473	MET
2	B	35	LEU
2	B	82	ILE
2	B	89	MET
2	B	201	GLU
2	B	212	LYS
2	B	226	ARG
2	B	235	LEU
2	B	241	ILE

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Mol	Chain	Res	Type
2	B	244	MET
2	B	246	ARG
2	B	255	ILE
2	B	262	ILE
2	B	290	ASP
2	B	310	ILE
2	B	311	GLN
2	B	323	ARG
2	B	327	THR
2	B	331	ARG
2	B	337	TYR
2	B	352	THR
2	B	404	ARG
2	B	426	ARG
2	B	427	GLU
2	B	429	ASN
2	B	430	LEU
2	B	438	ILE
2	B	439	ILE
2	B	447	LEU
2	B	456	LYS
2	B	459	MET
2	B	469	LEU
2	B	485	ASN
2	B	488	ILE
2	B	493	LYS
2	B	500	LEU
2	B	502	ASN
2	B	507	MET
2	B	524	ASN
2	B	550	GLU
2	B	552	LEU
2	B	565	LYS
2	B	573	LEU
2	B	619	ILE
2	B	654	ARG
2	B	655	TYR
2	B	657	ILE
2	B	662	ARG
2	B	663	PHE
2	B	668	LEU
2	B	690	SER

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Mol	Chain	Res	Type
2	B	715	ARG
2	B	740	ILE
2	B	745	ILE
2	B	747	PHE
2	B	750	HIS
2	B	752	GLN
2	B	753	SER
2	B	757	THR
2	B	759	GLN
2	B	778	MET
2	B	780	THR
2	B	785	LEU
2	B	794	THR
2	B	797	SER
2	B	818	CYS
2	B	831	ASN
2	B	834	SER
2	B	835	ILE
2	B	839	LEU
2	B	840	PHE
2	B	870	THR
2	B	872	LEU
2	B	873	ARG
2	B	879	TYR
2	B	900	ILE
2	B	901	ILE
2	B	962	ILE
2	B	981	MET
2	B	993	GLN
2	B	995	ILE
2	B	999	ILE
2	B	1000	ILE
2	B	1011	THR
2	B	1035	PRO
2	B	1056	ARG
2	B	1060	VAL
2	B	1079	THR
2	B	1080	TYR
2	B	1083	ARG
2	B	1092	ILE
2	B	1112	SER
2	B	1117	LEU

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Mol	Chain	Res	Type
2	B	1122	MET
2	B	1129	SER
2	B	1152	CYS
2	B	1197	SER
2	B	1200	ILE
2	B	1205	PHE
3	C	9	ILE
3	C	14	LYS
3	C	57	MET
3	C	59	ASP
3	C	69	ILE
3	C	76	ILE
3	C	84	LEU
3	C	120	ARG
3	C	126	SER
3	C	127	ASN
3	C	129	SER
3	C	130	LEU
3	C	146	CYS
3	C	242	ASN
3	C	249	LEU
3	C	252	LEU
4	D	9	ASP
4	D	13	LEU
4	D	23	ASP
4	D	25	LEU
4	D	31	LYS
4	D	40	GLN
4	D	43	ARG
4	D	67	ARG
4	D	84	ARG
4	D	85	PHE
4	D	87	LYS
4	D	95	THR
4	D	96	LEU
4	D	97	CYS
4	D	98	CYS
4	D	99	GLU
4	D	132	LYS
5	E	7	ASN
5	E	44	MET
5	E	48	MET

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Mol	Chain	Res	Type
5	E	52	LEU
5	E	84	ILE
5	E	139	ILE
5	E	148	HIS
5	E	162	ARG
5	E	168	THR
5	E	174	GLN
5	E	195	ARG
5	E	200	SER
5	E	209	CYS
6	F	60	SER
6	F	74	TYR
6	F	82	ARG
6	F	115	LEU
6	F	120	ILE
6	F	128	LEU
6	F	142	ILE
7	G	51	ASP
7	G	59	LYS
7	G	61	ARG
7	G	66	GLN
7	G	68	PHE
7	G	101	PHE
7	G	114	HIS
8	H	14	THR
8	H	25	SER
8	H	27	ILE
8	H	36	MET
8	H	37	ASN
8	H	38	LEU
8	H	39	THR
8	H	40	LEU
8	H	57	LEU
8	H	59	ILE
8	H	62	ASN
8	H	63	LEU
8	H	65	SER
8	H	70	GLU
9	I	3	ASN
9	I	17	ARG
9	I	20	LYS
9	I	25	LEU

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Mol	Chain	Res	Type
9	I	26	ARG
9	I	30	ARG
9	I	42	LYS
9	I	44	TYR
9	I	47	GLU
9	I	57	THR
9	I	60	HIS
9	I	61	ASP
9	I	68	LEU
9	I	74	GLU
9	I	75	CYS
9	I	77	ARG
9	I	78	CYS
9	I	79	HIS
9	I	88	THR
9	I	94	ASP
9	I	100	ILE
9	I	112	GLU
9	I	113	GLN
10	J	1	MET
10	J	2	ILE
10	J	3	ILE
10	J	5	ILE
10	J	13	VAL
10	J	20	THR
10	J	41	GLN
10	J	44	CYS
10	J	45	CYS
10	J	46	ARG
10	J	47	ARG
10	J	49	ILE
10	J	56	ILE
11	K	12	LEU
11	K	54	ARG
11	K	72	LEU
11	K	73	ARG
11	K	86	ILE
12	L	20	MET
12	L	24	CYS
12	L	27	CYS
12	L	44	CYS
12	L	48	VAL

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Mol	Chain	Res	Type
1	M	7	SER
1	M	10	SER
1	M	15	ARG
1	M	36	LYS
1	M	39	PHE
1	M	43	MET
1	M	46	SER
1	M	48	GLN
1	M	49	ARG
1	M	51	ARG
1	M	56	LEU
1	M	66	GLN
1	M	67	PHE
1	M	68	LYS
1	M	72	CYS
1	M	85	HIS
1	M	86	ILE
1	M	87	GLU
1	M	88	LEU
1	M	116	LYS
1	M	117	ILE
1	M	118	ASP
1	M	119	SER
1	M	121	ASN
1	M	147	LYS
1	M	148	MET
1	M	150	CYS
1	M	154	LEU
1	M	155	SER
1	M	158	SER
1	M	159	ASP
1	M	163	LEU
1	M	164	SER
1	M	169	ASN
1	M	175	CYS
1	M	183	ARG
1	M	188	ARG
1	M	195	ARG
1	M	197	LYS
1	M	200	SER
1	M	206	ARG
1	M	207	LEU

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Mol	Chain	Res	Type
1	M	208	LEU
1	M	209	SER
1	M	232	GLU
1	M	253	ARG
1	M	256	ILE
1	M	257	SER
1	M	258	VAL
1	M	262	SER
1	M	263	ARG
1	M	266	ASP
1	M	267	ASP
1	M	268	LEU
1	M	269	THR
1	M	271	LYS
1	M	322	GLN
1	M	326	ARG
1	M	328	LEU
1	M	329	LYS
1	M	330	SER
1	M	335	LEU
1	M	341	ARG
1	M	343	ARG
1	M	357	THR
1	M	374	ARG
1	M	385	THR
1	M	398	VAL
1	M	421	LEU
1	M	426	ARG
1	M	430	ILE
1	M	434	TYR
1	M	436	TRP
1	M	442	ILE
1	M	452	ARG
1	M	459	MET
1	M	460	SER
1	M	472	SER
1	M	475	ARG
1	M	476	LEU
1	M	479	SER
1	M	495	MET
1	M	507	ILE
1	M	511	THR

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Mol	Chain	Res	Type
1	M	513	VAL
1	M	523	ASN
1	M	533	THR
1	M	534	LEU
1	M	552	VAL
1	M	555	ILE
1	M	559	VAL
1	M	579	THR
1	M	583	ILE
1	M	592	ILE
1	M	605	ASN
1	M	618	ILE
1	M	639	ILE
1	M	655	ILE
1	M	663	LEU
1	M	669	SER
1	M	682	MET
1	M	686	THR
1	M	708	LEU
1	M	717	ARG
1	M	730	GLN
1	M	732	ARG
1	M	733	ASP
1	M	758	LYS
1	M	762	ILE
1	M	764	ILE
1	M	770	CYS
1	M	773	GLN
1	M	775	ILE
1	M	776	VAL
1	M	781	ILE
1	M	785	PHE
1	M	801	GLU
1	M	802	SER
1	M	814	LEU
1	M	817	GLN
1	M	827	ARG
1	M	833	THR
1	M	837	THR
1	M	843	ILE
1	M	846	ARG
1	M	857	ARG

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Mol	Chain	Res	Type
1	M	861	THR
1	M	864	ASN
1	M	869	ILE
1	M	886	TYR
1	M	905	ILE
1	M	919	ASN
1	M	921	ILE
1	M	922	GLU
1	M	946	CYS
1	M	947	LYS
1	M	948	PHE
1	M	969	ASN
1	M	985	LEU
1	M	989	ILE
1	M	1001	THR
1	M	1086	THR
1	M	1087	PHE
1	M	1089	TYR
1	M	1092	VAL
1	M	1093	SER
1	M	1095	LYS
1	M	1097	VAL
1	M	1098	THR
1	M	1103	ARG
1	M	1104	LEU
1	M	1112	LYS
1	M	1114	ILE
1	M	1119	LEU
1	M	1127	ILE
1	M	1140	GLN
1	M	1160	ASP
1	M	1162	GLN
1	M	1166	ILE
1	M	1169	ASP
1	M	1183	GLU
1	M	1246	ILE
1	M	1248	ASP
1	M	1250	ASP
1	M	1260	ILE
1	M	1261	GLU
1	M	1277	ILE
1	M	1278	SER

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Mol	Chain	Res	Type
1	M	1309	GLU
1	M	1314	THR
1	M	1323	MET
1	M	1328	VAL
1	M	1341	ILE
1	M	1347	ILE
1	M	1350	THR
1	M	1351	ARG
1	M	1355	LEU
1	M	1374	LEU
1	M	1387	LEU
1	M	1395	ILE
1	M	1397	ARG
1	M	1399	GLU
1	M	1400	THR
1	M	1403	LEU
1	M	1411	THR
1	M	1442	MET
1	M	1444	THR
1	M	1449	ILE
1	M	1459	TYR
2	N	35	LEU
2	N	82	ILE
2	N	89	MET
2	N	201	GLU
2	N	212	LYS
2	N	226	ARG
2	N	235	LEU
2	N	241	ILE
2	N	244	MET
2	N	246	ARG
2	N	255	ILE
2	N	262	ILE
2	N	290	ASP
2	N	310	ILE
2	N	311	GLN
2	N	327	THR
2	N	329	VAL
2	N	332	GLU
2	N	337	TYR
2	N	352	THR
2	N	402	LEU

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Mol	Chain	Res	Type
2	N	426	ARG
2	N	427	GLU
2	N	429	ASN
2	N	430	LEU
2	N	438	ILE
2	N	439	ILE
2	N	447	LEU
2	N	456	LYS
2	N	459	MET
2	N	469	LEU
2	N	485	ASN
2	N	488	ILE
2	N	493	LYS
2	N	500	LEU
2	N	502	ASN
2	N	507	MET
2	N	524	ASN
2	N	550	GLU
2	N	552	LEU
2	N	565	LYS
2	N	573	LEU
2	N	619	ILE
2	N	654	ARG
2	N	655	TYR
2	N	657	ILE
2	N	662	ARG
2	N	663	PHE
2	N	668	LEU
2	N	669	VAL
2	N	690	SER
2	N	715	ARG
2	N	740	ILE
2	N	745	ILE
2	N	747	PHE
2	N	750	HIS
2	N	752	GLN
2	N	753	SER
2	N	757	THR
2	N	778	MET
2	N	780	THR
2	N	785	LEU
2	N	794	THR

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Mol	Chain	Res	Type
2	N	797	SER
2	N	818	CYS
2	N	831	ASN
2	N	834	SER
2	N	835	ILE
2	N	839	LEU
2	N	840	PHE
2	N	870	THR
2	N	872	LEU
2	N	879	TYR
2	N	900	ILE
2	N	901	ILE
2	N	962	ILE
2	N	981	MET
2	N	993	GLN
2	N	995	ILE
2	N	999	ILE
2	N	1000	ILE
2	N	1011	THR
2	N	1035	PRO
2	N	1056	ARG
2	N	1060	VAL
2	N	1079	THR
2	N	1080	TYR
2	N	1083	ARG
2	N	1092	ILE
2	N	1112	SER
2	N	1117	LEU
2	N	1122	MET
2	N	1129	SER
2	N	1145	ASP
2	N	1152	CYS
2	N	1197	SER
2	N	1200	ILE
2	N	1205	PHE
3	O	9	ILE
3	O	14	LYS
3	O	57	MET
3	O	59	ASP
3	O	69	ILE
3	O	76	ILE
3	O	84	LEU

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Mol	Chain	Res	Type
3	O	120	ARG
3	O	126	SER
3	O	127	ASN
3	O	129	SER
3	O	130	LEU
3	O	146	CYS
3	O	242	ASN
3	O	249	LEU
3	O	252	LEU
4	P	9	ASP
4	P	13	LEU
4	P	23	ASP
4	P	25	LEU
4	P	31	LYS
4	P	40	GLN
4	P	43	ARG
4	P	67	ARG
4	P	84	ARG
4	P	85	PHE
4	P	87	LYS
4	P	95	THR
4	P	96	LEU
4	P	97	CYS
4	P	98	CYS
4	P	99	GLU
4	P	132	LYS
5	Q	7	ASN
5	Q	44	MET
5	Q	48	MET
5	Q	52	LEU
5	Q	84	ILE
5	Q	139	ILE
5	Q	148	HIS
5	Q	162	ARG
5	Q	168	THR
5	Q	174	GLN
5	Q	195	ARG
5	Q	200	SER
5	Q	209	CYS
6	R	60	SER
6	R	74	TYR
6	R	82	ARG

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Mol	Chain	Res	Type
6	R	115	LEU
6	R	120	ILE
6	R	128	LEU
6	R	142	ILE
7	S	51	ASP
7	S	59	LYS
7	S	61	ARG
7	S	66	GLN
7	S	68	PHE
7	S	101	PHE
7	S	114	HIS
8	T	14	THR
8	T	25	SER
8	T	27	ILE
8	T	36	MET
8	T	37	ASN
8	T	38	LEU
8	T	39	THR
8	T	40	LEU
8	T	57	LEU
8	T	59	ILE
8	T	62	ASN
8	T	63	LEU
8	T	65	SER
8	T	70	GLU
9	U	3	ASN
9	U	13	MET
9	U	20	LYS
9	U	25	LEU
9	U	26	ARG
9	U	30	ARG
9	U	42	LYS
9	U	44	TYR
9	U	47	GLU
9	U	57	THR
9	U	60	HIS
9	U	61	ASP
9	U	68	LEU
9	U	74	GLU
9	U	75	CYS
9	U	77	ARG
9	U	78	CYS

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Mol	Chain	Res	Type
9	U	79	HIS
9	U	88	THR
9	U	94	ASP
9	U	100	ILE
9	U	112	GLU
9	U	113	GLN
10	V	1	MET
10	V	2	ILE
10	V	3	ILE
10	V	5	ILE
10	V	13	VAL
10	V	20	THR
10	V	41	GLN
10	V	44	CYS
10	V	45	CYS
10	V	46	ARG
10	V	47	ARG
10	V	49	ILE
10	V	56	ILE
11	W	12	LEU
11	W	54	ARG
11	W	72	LEU
11	W	73	ARG
11	W	83	LYS
11	W	86	ILE
12	X	20	MET
12	X	24	CYS
12	X	27	CYS
12	X	44	CYS
12	X	48	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (225) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	48	GLN
1	A	82	HIS
1	A	94	HIS
1	A	121	ASN
1	A	128	GLN
1	A	179	GLN
1	A	214	HIS
1	A	219	HIS

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Mol	Chain	Res	Type
1	A	227	HIS
1	A	231	ASN
1	A	312	ASN
1	A	393	GLN
1	A	395	GLN
1	A	457	HIS
1	A	477	ASN
1	A	496	HIS
1	A	516	GLN
1	A	521	GLN
1	A	545	ASN
1	A	550	ASN
1	A	582	GLN
1	A	593	ASN
1	A	656	GLN
1	A	705	HIS
1	A	763	ASN
1	A	773	GLN
1	A	817	GLN
1	A	864	ASN
1	A	887	GLN
1	A	898	GLN
1	A	919	ASN
1	A	937	GLN
1	A	969	ASN
1	A	972	GLN
1	A	1014	GLN
1	A	1088	HIS
1	A	1109	ASN
1	A	1156	HIS
1	A	1162	GLN
1	A	1293	HIS
1	A	1373	HIS
1	A	1438	GLN
1	A	1477	GLN
2	B	34	GLN
2	B	108	ASN
2	B	200	GLN
2	B	339	HIS
2	B	386	HIS
2	B	419	GLN
2	B	441	ASN

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Mol	Chain	Res	Type
2	B	455	GLN
2	B	485	ASN
2	B	501	HIS
2	B	576	HIS
2	B	581	HIS
2	B	644	HIS
2	B	646	GLN
2	B	661	GLN
2	B	725	HIS
2	B	733	HIS
2	B	752	GLN
2	B	765	GLN
2	B	783	ASN
2	B	824	GLN
2	B	831	ASN
2	B	876	HIS
2	B	940	GLN
2	B	964	GLN
2	B	973	HIS
2	B	975	GLN
2	B	985	HIS
2	B	993	GLN
2	B	1051	HIS
2	B	1063	HIS
2	B	1086	HIS
2	B	1093	HIS
2	B	1106	GLN
2	B	1130	HIS
2	B	1181	GLN
2	B	1209	HIS
3	C	30	ASN
3	C	132	HIS
3	C	168	HIS
3	C	188	GLN
3	C	189	HIS
3	C	253	GLN
4	D	40	GLN
4	D	86	HIS
4	D	92	GLN
5	E	19	HIS
5	E	45	HIS
5	E	68	ASN

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Mol	Chain	Res	Type
5	E	98	ASN
5	E	99	HIS
5	E	124	GLN
5	E	141	HIS
5	E	142	HIS
5	E	174	GLN
6	F	94	ASN
7	G	53	ASN
7	G	114	HIS
8	H	33	GLN
8	H	108	HIS
9	I	49	GLN
9	I	55	ASN
9	I	79	HIS
9	I	80	GLN
9	I	81	HIS
9	I	87	GLN
10	J	52	HIS
11	K	39	HIS
11	K	64	HIS
11	K	68	HIS
11	K	96	HIS
1	M	48	GLN
1	M	82	HIS
1	M	94	HIS
1	M	121	ASN
1	M	128	GLN
1	M	179	GLN
1	M	214	HIS
1	M	219	HIS
1	M	227	HIS
1	M	231	ASN
1	M	312	ASN
1	M	395	GLN
1	M	457	HIS
1	M	477	ASN
1	M	496	HIS
1	M	499	GLN
1	M	516	GLN
1	M	545	ASN
1	M	550	ASN
1	M	582	GLN

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Mol	Chain	Res	Type
1	M	593	ASN
1	M	656	GLN
1	M	665	HIS
1	M	705	HIS
1	M	763	ASN
1	M	773	GLN
1	M	817	GLN
1	M	864	ASN
1	M	887	GLN
1	M	898	GLN
1	M	919	ASN
1	M	937	GLN
1	M	969	ASN
1	M	972	GLN
1	M	1014	GLN
1	M	1088	HIS
1	M	1109	ASN
1	M	1162	GLN
1	M	1293	HIS
1	M	1373	HIS
1	M	1438	GLN
2	N	34	GLN
2	N	108	ASN
2	N	200	GLN
2	N	339	HIS
2	N	386	HIS
2	N	419	GLN
2	N	441	ASN
2	N	455	GLN
2	N	485	ASN
2	N	501	HIS
2	N	576	HIS
2	N	581	HIS
2	N	644	HIS
2	N	646	GLN
2	N	661	GLN
2	N	733	HIS
2	N	752	GLN
2	N	765	GLN
2	N	783	ASN
2	N	824	GLN
2	N	831	ASN

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Mol	Chain	Res	Type
2	N	876	HIS
2	N	940	GLN
2	N	964	GLN
2	N	973	HIS
2	N	975	GLN
2	N	985	HIS
2	N	993	GLN
2	N	1051	HIS
2	N	1063	HIS
2	N	1086	HIS
2	N	1093	HIS
2	N	1106	GLN
2	N	1130	HIS
2	N	1181	GLN
2	N	1209	HIS
3	O	30	ASN
3	O	132	HIS
3	O	168	HIS
3	O	188	GLN
3	O	189	HIS
3	O	253	GLN
4	P	86	HIS
4	P	92	GLN
5	Q	19	HIS
5	Q	45	HIS
5	Q	68	ASN
5	Q	98	ASN
5	Q	99	HIS
5	Q	124	GLN
5	Q	142	HIS
5	Q	174	GLN
6	R	94	ASN
7	S	42	GLN
7	S	114	HIS
8	T	33	GLN
8	T	108	HIS
9	U	49	GLN
9	U	52	ASN
9	U	55	ASN
9	U	79	HIS
9	U	80	GLN
9	U	81	HIS

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Mol	Chain	Res	Type
9	U	87	GLN
10	V	52	HIS
11	W	2	ASN
11	W	39	HIS
11	W	64	HIS
11	W	68	HIS
11	W	96	HIS

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

Of 18 ligands modelled in this entry, 18 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	1496/1752 (85%)	0.16	84 (5%) 24 16	51, 150, 385, 628	0
1	M	1476/1752 (84%)	0.53	174 (11%) 4 3	83, 199, 449, 672	0
2	B	1150/1210 (95%)	0.05	27 (2%) 60 46	69, 142, 314, 580	0
2	N	1150/1210 (95%)	0.55	118 (10%) 6 4	85, 222, 419, 618	0
3	C	263/297 (88%)	-0.18	0 100 100	80, 126, 252, 477	0
3	O	263/297 (88%)	0.08	2 (0%) 86 77	125, 190, 350, 511	0
4	D	130/135 (96%)	0.32	5 (3%) 40 28	128, 240, 360, 596	0
4	P	130/135 (96%)	0.55	8 (6%) 20 13	152, 287, 414, 545	0
5	E	207/210 (98%)	-0.15	5 (2%) 59 45	70, 164, 293, 516	0
5	Q	207/210 (98%)	-0.05	4 (1%) 66 53	119, 181, 373, 501	0
6	F	83/142 (58%)	-0.49	0 100 100	70, 97, 170, 232	0
6	R	83/142 (58%)	-0.35	1 (1%) 79 68	111, 126, 200, 335	0
7	G	170/172 (98%)	0.35	9 (5%) 26 18	92, 199, 323, 514	0
7	S	170/172 (98%)	1.07	39 (22%) 0 0	122, 240, 388, 494	0
8	H	124/125 (99%)	0.14	4 (3%) 47 34	82, 138, 298, 408	0
8	T	124/125 (99%)	0.60	16 (12%) 3 3	115, 197, 344, 429	0
9	I	111/113 (98%)	0.50	12 (10%) 5 4	98, 239, 367, 549	0
9	U	111/113 (98%)	1.63	26 (23%) 0 0	151, 330, 482, 585	0
10	J	64/71 (90%)	-0.20	0 100 100	85, 108, 220, 304	0
10	V	64/71 (90%)	0.04	0 100 100	137, 203, 326, 373	0
11	K	119/123 (96%)	-0.34	0 100 100	60, 126, 221, 319	0
11	W	119/123 (96%)	0.15	3 (2%) 57 43	76, 168, 295, 470	0
12	L	45/63 (71%)	-0.02	1 (2%) 62 48	93, 177, 299, 481	0
12	X	45/63 (71%)	1.00	11 (24%) 0 0	153, 277, 425, 580	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
All	All	7904/8826 (89%)	0.29	549 (6%)	16	11	51, 181, 397, 672	0

All (549) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
9	U	41	SER	21.8
9	U	40	THR	16.2
9	U	39	ALA	14.8
11	W	119	GLU	14.5
1	A	107	CYS	12.1
1	M	1239	LEU	12.1
1	A	1195	LEU	11.8
1	M	195	ARG	10.4
1	M	1207	ASP	10.3
2	N	919	GLN	9.5
1	M	1168	GLU	8.7
1	M	1242	ARG	8.7
1	M	317	GLN	8.3
1	M	1206	LEU	8.1
1	M	261	THR	7.9
1	M	204	GLU	7.7
1	M	1246	ILE	7.6
9	U	42	LYS	7.5
2	N	921	HIS	7.3
1	M	156	ALA	7.1
1	M	157	GLY	7.0
2	N	96	THR	6.9
1	M	322	GLN	6.8
1	M	1195	LEU	6.8
1	M	316	GLY	6.7
4	P	46	ASN	6.6
11	W	118	VAL	6.6
9	U	22	ASP	6.5
1	M	1158	ASP	6.3
1	M	1127	ILE	6.3
2	N	152	ILE	6.3
1	M	1265	PHE	6.2
1	M	1191	GLN	6.2
2	N	429	ASN	6.2
1	M	1090	ALA	6.1
1	M	1086	THR	6.0
9	U	57	THR	6.0

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Mol	Chain	Res	Type	RSRZ
7	S	163	THR	6.0
9	U	83	ALA	6.0
8	T	2	SER	5.9
1	M	1157	TYR	5.9
2	N	907	ILE	5.9
1	A	1156	HIS	5.9
1	M	155	SER	5.9
2	N	860	MET	5.9
2	N	77	ILE	5.9
1	M	314	ILE	5.7
1	A	1170	LYS	5.7
1	M	158	SER	5.7
1	M	1253	ALA	5.6
2	N	153	GLY	5.6
1	M	259	ASP	5.5
1	M	1317	ILE	5.5
1	M	116	LYS	5.4
1	A	1464	ALA	5.4
4	P	97	CYS	5.3
1	M	1148	THR	5.3
1	M	1192	SER	5.2
2	N	328	GLY	5.2
7	S	151	THR	5.2
1	M	260	GLY	5.1
1	M	128	GLN	5.1
1	A	1242	ARG	5.1
9	U	93	GLY	5.1
2	N	434	VAL	5.0
1	M	203	PRO	5.0
1	M	1261	GLU	4.9
9	U	113	GLN	4.9
2	N	327	THR	4.8
2	N	884	ASP	4.8
1	M	1202	ARG	4.8
1	M	328	LEU	4.7
9	U	23	ARG	4.7
1	M	93	PHE	4.7
8	T	8	ASP	4.7
9	U	37	ILE	4.7
1	M	1169	ASP	4.7
1	A	106	GLU	4.7
12	X	34	GLN	4.7

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Mol	Chain	Res	Type	RSRZ
7	S	81	ARG	4.6
7	S	158	ILE	4.6
2	N	922	ALA	4.5
2	N	1199	ASN	4.5
2	N	920	LEU	4.5
1	M	169	ASN	4.5
2	N	427	GLU	4.5
7	S	106	PRO	4.4
1	M	166	PRO	4.4
2	N	906	PRO	4.4
1	M	3	GLY	4.4
1	M	196	GLY	4.4
2	N	56	LEU	4.4
1	A	1197	ARG	4.3
2	N	457	ARG	4.3
1	M	922	GLU	4.3
1	M	1256	ASP	4.3
2	N	323	ARG	4.3
8	T	58	GLN	4.3
8	T	7	LEU	4.3
9	U	24	VAL	4.3
1	M	51	ARG	4.2
1	M	1238	LYS	4.2
1	M	165	ASN	4.1
1	A	1484	THR	4.1
2	N	901	ILE	4.1
1	M	286	GLU	4.1
1	A	1168	GLU	4.1
8	T	91	VAL	4.1
1	M	1089	TYR	4.1
1	M	164	SER	4.0
7	S	43	TYR	4.0
2	N	234	ARG	4.0
1	M	145	LYS	4.0
1	M	923	ASN	4.0
1	M	95	ILE	4.0
7	S	125	THR	4.0
1	M	1161	PRO	4.0
9	I	51	SER	4.0
2	N	490	ARG	3.9
9	U	52	ASN	3.9
1	M	1170	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
1	M	194	LYS	3.9
9	U	90	SER	3.9
12	X	32	THR	3.9
1	M	160	ASN	3.9
7	S	162	ALA	3.9
1	M	1252	LYS	3.9
1	M	1167	GLU	3.9
9	U	38	ALA	3.9
1	A	144	CYS	3.9
4	D	24	MET	3.9
7	S	90	ALA	3.9
1	A	1475	THR	3.8
2	N	345	GLU	3.8
9	I	4	PHE	3.8
7	G	77	ALA	3.8
12	X	19	THR	3.8
1	A	1229	THR	3.7
1	M	267	ASP	3.7
1	A	1480	GLU	3.7
1	M	1190	LYS	3.7
2	N	119	MET	3.7
1	M	1162	GLN	3.7
1	A	1154	GLU	3.7
1	M	162	ASP	3.7
2	N	324	GLY	3.7
8	H	2	SER	3.7
9	U	51	SER	3.7
2	N	78	ASN	3.7
1	A	1243	CYS	3.7
7	G	81	ARG	3.7
1	M	205	LYS	3.7
1	M	1194	TRP	3.7
2	N	943	VAL	3.7
1	M	58	PRO	3.6
2	N	145	GLU	3.6
1	A	1483	GLY	3.6
1	A	1159	PRO	3.6
7	G	76	ARG	3.6
1	M	258	VAL	3.6
1	A	1177	PHE	3.6
1	M	159	ASP	3.6
1	M	1260	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
1	M	1243	CYS	3.6
1	M	125	ASN	3.6
7	S	154	ASP	3.6
2	N	57	THR	3.6
12	X	39	ILE	3.5
2	N	853	LYS	3.5
1	A	1253	ALA	3.5
1	A	1465	VAL	3.5
1	M	1250	ASP	3.5
7	S	12	ILE	3.5
1	M	1245	ILE	3.5
4	P	96	LEU	3.5
1	M	144	CYS	3.5
1	A	1200	LEU	3.5
1	M	320	ALA	3.5
7	S	138	ILE	3.5
9	U	30	ARG	3.5
1	M	246	PRO	3.4
1	M	1088	HIS	3.4
1	M	1263	ASP	3.4
2	B	306	GLU	3.4
2	N	340	ASP	3.4
1	A	1160	ASP	3.4
1	M	41	GLU	3.4
7	G	158	ILE	3.4
1	M	1227	LEU	3.4
9	I	28	ALA	3.4
1	A	130	TYR	3.4
1	M	107	CYS	3.4
1	M	1083	THR	3.3
2	N	270	ILE	3.3
8	T	81	TYR	3.3
1	M	1156	HIS	3.3
2	B	413	ASP	3.3
7	S	172	LEU	3.3
1	A	116	LYS	3.3
1	M	86	ILE	3.3
1	M	1249	ASP	3.3
1	M	184	LYS	3.3
1	M	1095	LYS	3.3
1	A	45	GLU	3.3
12	X	48	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
7	S	150	GLY	3.2
1	A	125	ASN	3.2
7	S	80	TRP	3.2
2	N	80	GLY	3.2
1	A	167	SER	3.2
5	E	46	CYS	3.2
9	U	88	THR	3.2
1	M	1234	ASP	3.2
1	M	202	LEU	3.2
1	M	1197	ARG	3.2
7	S	107	LEU	3.2
2	B	709	GLU	3.2
7	S	89	ASP	3.2
7	S	108	ASN	3.2
1	M	325	GLY	3.2
1	A	164	SER	3.2
1	M	1264	VAL	3.2
2	N	249	GLU	3.2
1	M	115	LEU	3.1
1	M	167	SER	3.1
2	N	53	ASP	3.1
1	A	923	ASN	3.1
4	D	95	THR	3.1
2	B	328	GLY	3.1
1	M	1216	ALA	3.1
1	M	117	ILE	3.1
1	M	4	ILE	3.1
2	N	266	ILE	3.1
2	N	563	ALA	3.1
9	I	57	THR	3.1
5	E	129	THR	3.1
1	M	17	GLU	3.1
1	M	271	LYS	3.1
1	A	229	GLY	3.1
1	M	143	VAL	3.1
1	A	1466	PRO	3.1
2	N	551	THR	3.1
1	M	172	HIS	3.0
4	P	19	PHE	3.0
9	U	16	PRO	3.0
1	A	162	ASP	3.0
1	A	225	LEU	3.0

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Mol	Chain	Res	Type	RSRZ
2	N	852	GLU	3.0
7	S	105	GLY	3.0
1	A	87	GLU	3.0
8	H	29	ALA	3.0
2	N	869	SER	3.0
1	M	1215	VAL	3.0
5	Q	117	ILE	2.9
1	M	348	GLY	2.9
2	N	47	GLN	2.9
2	N	637	GLU	2.9
1	A	203	PRO	2.9
8	H	115	SER	2.9
2	N	202	ARG	2.9
1	A	1477	GLN	2.9
2	N	380	GLU	2.9
1	M	1386	HIS	2.9
2	N	430	LEU	2.9
2	N	79	PHE	2.9
9	U	18	GLU	2.9
1	M	170	MET	2.9
1	M	1244	ARG	2.9
7	G	43	TYR	2.9
12	X	49	MET	2.9
2	N	83	TYR	2.9
2	N	415	TYR	2.9
2	N	863	PHE	2.9
2	N	432	LEU	2.8
2	N	97	THR	2.8
9	U	56	THR	2.8
1	M	1228	PHE	2.8
1	M	1318	ASN	2.8
1	M	2	SER	2.8
2	N	472	TYR	2.8
1	A	315	ALA	2.8
11	W	41	LEU	2.8
1	A	343	ARG	2.8
1	A	1153	THR	2.8
1	M	1225	ARG	2.8
1	M	92	VAL	2.8
1	M	1087	PHE	2.8
1	M	1499	SER	2.8
1	A	1169	ASP	2.8

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Mol	Chain	Res	Type	RSRZ
1	M	1138	GLN	2.8
4	P	98	CYS	2.8
2	N	574	GLY	2.8
7	G	100	PHE	2.8
1	M	321	LEU	2.7
1	M	1040	LEU	2.7
7	S	115	LEU	2.7
1	M	424	HIS	2.7
2	N	233	SER	2.7
9	I	74	GLU	2.7
8	T	104	ILE	2.7
1	A	289	GLY	2.7
2	N	495	ALA	2.7
1	M	287	GLN	2.7
2	N	431	THR	2.7
1	A	1245	ILE	2.7
9	U	100	ILE	2.7
2	N	407	PHE	2.7
1	A	169	ASN	2.7
4	P	99	GLU	2.7
1	A	1198	LEU	2.7
2	N	346	LEU	2.7
1	M	1091	GLY	2.7
1	A	111	ASN	2.7
1	M	94	HIS	2.7
2	N	575	VAL	2.7
1	M	153	GLY	2.7
7	S	27	LEU	2.7
2	N	421	CYS	2.7
7	S	112	SER	2.7
4	P	18	GLU	2.6
7	G	56	ASP	2.6
2	N	944	THR	2.6
8	T	38	LEU	2.6
9	I	50	SER	2.6
1	M	245	LEU	2.6
1	A	41	GLU	2.6
2	B	411	THR	2.6
2	N	314	ASP	2.6
9	I	44	TYR	2.6
1	M	1258	ASN	2.6
1	M	21	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
2	N	146	GLU	2.6
2	N	43	GLN	2.6
4	D	93	LEU	2.6
1	M	102	LYS	2.6
2	N	287	ILE	2.6
2	N	306	GLU	2.6
2	N	418	MET	2.6
2	N	433	ALA	2.6
2	N	831	ASN	2.6
2	N	850	ASP	2.6
1	A	1240	ILE	2.6
7	S	149	VAL	2.6
1	M	1257	ASP	2.6
2	N	866	PRO	2.6
1	M	108	VAL	2.6
2	N	414	VAL	2.6
1	M	181	THR	2.6
7	S	140	LYS	2.6
9	U	9	GLU	2.6
12	X	22	TYR	2.5
1	M	66	GLN	2.5
8	T	113	ARG	2.5
1	A	105	LEU	2.5
1	M	1235	ASN	2.5
2	B	150	VAL	2.5
5	Q	108	ASN	2.5
2	B	310	ILE	2.5
1	A	1199	GLU	2.5
2	N	749	ASP	2.5
12	X	30	ARG	2.5
1	M	57	ASP	2.5
2	N	953	VAL	2.5
2	N	120	ARG	2.5
1	A	1246	ILE	2.5
3	O	264	ASP	2.5
2	B	1208	ASN	2.5
2	N	1145	ASP	2.5
1	A	1158	ASP	2.5
2	B	296	MET	2.5
7	S	165	LYS	2.5
1	A	1481	GLY	2.5
7	S	139	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
1	M	1251	ARG	2.5
2	N	417	TYR	2.5
1	M	154	LEU	2.5
8	T	102	MET	2.5
1	A	1489	SER	2.5
7	G	71	PHE	2.5
1	A	228	LEU	2.4
2	B	430	LEU	2.4
2	N	710	LEU	2.4
9	I	41	SER	2.4
8	H	110	LYS	2.4
2	N	709	GLU	2.4
2	B	699	GLN	2.4
12	L	32	THR	2.4
2	N	606	ARG	2.4
1	A	1163	ASP	2.4
1	A	1476	SER	2.4
2	N	1093	HIS	2.4
1	A	1194	TRP	2.4
8	T	92	SER	2.4
1	A	160	ASN	2.4
8	T	59	ILE	2.4
2	B	325	SER	2.4
2	B	562	ASN	2.4
2	N	329	VAL	2.4
4	P	25	LEU	2.4
2	N	455	GLN	2.4
1	A	807	GLU	2.4
2	N	957	MET	2.4
1	M	1212	MET	2.4
1	A	232	GLU	2.4
2	B	919	GLN	2.4
1	M	178	ALA	2.4
2	B	424	THR	2.4
2	B	491	ASP	2.4
1	A	1462	GLY	2.3
7	S	137	VAL	2.3
9	I	25	LEU	2.3
2	N	121	LYS	2.3
2	B	379	ARG	2.3
1	A	1463	THR	2.3
7	S	8	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
1	A	1258	ASN	2.3
2	B	303	CYS	2.3
1	A	230	LEU	2.3
2	B	346	LEU	2.3
5	Q	124	GLN	2.3
7	S	109	VAL	2.3
1	M	147	LYS	2.3
1	A	93	PHE	2.3
1	A	1244	ARG	2.3
1	A	1486	TYR	2.3
2	N	549	LEU	2.3
2	N	856	GLY	2.3
5	E	124	GLN	2.3
5	E	132	GLU	2.3
7	S	86	GLU	2.3
2	N	576	HIS	2.3
9	U	89	HIS	2.3
2	B	295	GLN	2.3
1	M	1255	ASP	2.3
1	M	54	GLY	2.3
1	A	92	VAL	2.3
1	M	262	SER	2.3
1	M	1254	GLU	2.3
7	S	153	THR	2.3
1	M	1176	PHE	2.3
2	N	95	SER	2.2
2	B	152	ILE	2.2
1	A	298	TYR	2.2
2	N	209	GLN	2.2
1	M	168	ALA	2.2
1	M	208	LEU	2.2
2	N	862	GLU	2.2
2	N	147	PRO	2.2
2	N	303	CYS	2.2
1	M	1505	PHE	2.2
5	Q	50	ARG	2.2
2	N	708	GLU	2.2
1	A	300	GLN	2.2
1	M	345	ASN	2.2
1	A	322	GLN	2.2
1	M	254	PRO	2.2
7	S	4	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
1	A	1471	SER	2.2
1	M	131	ARG	2.2
1	M	304	PHE	2.2
1	M	1438	GLN	2.2
2	N	272	PHE	2.2
7	S	124	PRO	2.2
1	M	1182	GLU	2.2
2	B	653	ASP	2.2
8	T	16	VAL	2.2
12	X	46	HIS	2.2
2	N	509	CYS	2.2
1	A	165	ASN	2.2
2	N	413	ASP	2.2
12	X	23	LEU	2.2
2	N	820	SER	2.2
1	A	1148	THR	2.2
2	B	429	ASN	2.2
1	M	97	PHE	2.2
1	M	1459	TYR	2.2
8	T	122	LEU	2.2
2	B	921	HIS	2.2
1	M	110	TRP	2.2
9	I	91	ARG	2.2
1	M	265	GLU	2.2
2	N	952	PHE	2.2
7	S	147	LYS	2.1
1	M	903	TYR	2.1
2	N	250	ASN	2.1
2	N	678	ASP	2.1
2	N	945	THR	2.1
1	M	182	ILE	2.1
1	A	3	GLY	2.1
1	M	151	ASP	2.1
1	M	925	SER	2.1
9	I	52	ASN	2.1
2	N	734	PRO	2.1
4	D	25	LEU	2.1
2	N	144	ASP	2.1
2	N	296	MET	2.1
2	N	473	THR	2.1
9	U	67	THR	2.1
2	N	796	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
7	S	94	THR	2.1
12	X	25	ALA	2.1
1	M	161	PHE	2.1
1	M	312	ASN	2.1
7	S	100	PHE	2.1
1	A	159	ASP	2.1
2	N	403	PHE	2.1
2	N	888	ILE	2.1
1	M	1453	GLN	2.1
1	A	1241	ILE	2.1
1	A	1467	THR	2.1
1	M	132	ASP	2.1
7	G	49	VAL	2.1
1	M	100	LYS	2.1
1	A	1228	PHE	2.1
2	N	951	LYS	2.1
9	U	47	GLU	2.1
3	O	231	MET	2.1
2	N	283	ILE	2.1
7	S	142	SER	2.1
2	N	595	ILE	2.1
9	I	89	HIS	2.1
1	M	1248	ASP	2.1
2	N	679	ALA	2.1
8	T	93	VAL	2.1
1	A	53	GLY	2.1
1	A	1174	GLU	2.1
2	B	642	LYS	2.0
4	D	94	GLY	2.1
6	R	119	LYS	2.0
2	N	809	GLY	2.0
2	N	1146	ALA	2.0
1	M	874	TYR	2.0
1	M	708	LEU	2.0
7	S	35	VAL	2.0
1	A	1155	ILE	2.0
1	M	808	ASN	2.0
1	A	102	LYS	2.0
1	M	230	LEU	2.0
1	M	42	THR	2.0
1	M	840	THR	2.0
7	S	58	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
5	E	117	ILE	2.0
8	T	76	MET	2.0
1	M	1153	THR	2.0
2	B	435	LYS	2.0
1	M	129	ARG	2.0
2	B	888	ILE	2.0
1	M	15	ARG	2.0
2	N	902	GLY	2.0

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
14	MG	M	2458	1/1	0.27	0.39	197,197,197,197	0
14	MG	A	2458	1/1	0.54	1.81	109,109,109,109	0
13	ZN	M	2456	1/1	0.63	0.26	432,432,432,432	0
13	ZN	A	2456	1/1	0.68	0.06	245,245,245,245	0
13	ZN	O	1269	1/1	0.70	0.11	189,189,189,189	0
13	ZN	N	2225	1/1	0.80	0.22	180,180,180,180	0
13	ZN	U	1122	1/1	0.80	0.06	240,240,240,240	0
13	ZN	M	2457	1/1	0.83	0.14	172,172,172,172	0
13	ZN	X	1071	1/1	0.83	0.05	195,195,195,195	0
13	ZN	I	1122	1/1	0.83	0.10	126,126,126,126	0
13	ZN	I	1121	1/1	0.83	0.06	160,160,160,160	0
13	ZN	L	1071	1/1	0.87	0.09	123,123,123,123	0
13	ZN	U	1121	1/1	0.90	0.06	284,284,284,284	0
13	ZN	C	1269	1/1	0.91	0.07	122,122,122,122	0
13	ZN	B	2225	1/1	0.94	0.17	149,149,149,149	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
13	ZN	A	2457	1/1	0.94	0.20	122,122,122,122	0
13	ZN	V	1066	1/1	0.96	0.20	155,155,155,155	0
13	ZN	J	1066	1/1	0.97	0.22	87,87,87,87	0

6.5 Other polymers (i)

There are no such residues in this entry.