Full wwPDB EM Validation Report ⓘ

Mar 5, 2026 – 02:00 PM UTC

PDB ID	:	3IYL / pdb_00003iyl
EMDB ID	:	EMD-5160
Title	:	Atomic CryoEM Structure of a Nonenveloped Virus Suggests How Membrane Penetration Protein is Primed for Cell Entry
Authors	:	Zhang, X.; Jin, L.; Fang, Q.; Hui, W.; Zhou, Z.H.
Deposited on	:	2010-02-02
Resolution	:	3.30 Å(reported)

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

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

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

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

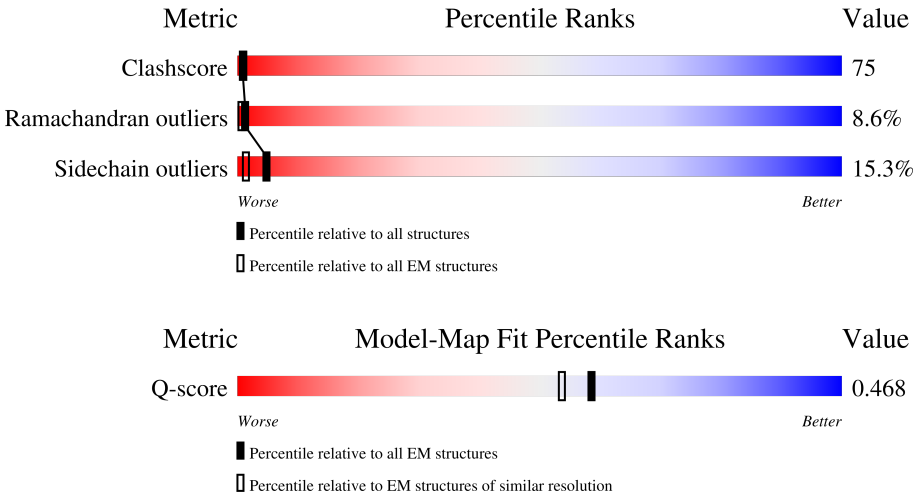
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

1 Overall quality at a glance

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

The reported resolution of this entry is 3.30 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	15087 (2.80 - 3.80)

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

Mol	Chain	Length	Quality of chain
1	A	648	94%
1	B	648	14% 23% 50% 17% 7%
1	C	648	94%
1	D	648	13% 19% 53% 17% 7%

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Mol	Chain	Length	Quality of chain
1	E	648	94%
1	F	648	14% 20% 52% 18% 7%
1	G	648	94%
1	H	648	14% 19% 53% 18% 7%
1	I	648	94%
1	J	648	15% 19% 52% 18% 7%
1	K	648	94%
1	L	648	14% 20% 52% 17% 7%
1	M	648	94%
1	N	648	16% 19% 53% 18% 7%
1	O	648	94%
1	P	648	16% 20% 52% 18% 7%
1	Q	648	94%
1	R	648	13% 20% 52% 18% 7%
1	S	648	94%
1	T	648	15% 19% 53% 17% 7%
2	U	412	25% 59% 15%
2	V	412	6% 59% 36% 5%
3	W	1299	10% 31% 57% 11%
4	X	1214	19% 47% 17% 16%
4	Y	1214	27% 55% 12% 5%

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
5	MYR	A	649	-	-	X	-
5	MYR	C	649	-	-	X	-

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
5	MYR	E	649	-	-	X	-
5	MYR	G	649	-	-	X	-
5	MYR	I	649	-	-	X	-
5	MYR	K	649	-	-	X	-
5	MYR	M	649	-	-	X	-
5	MYR	O	649	-	-	X	-
5	MYR	Q	649	-	-	X	-
5	MYR	S	649	-	-	X	-

2 Entry composition (i)

There are 5 unique types of molecules in this entry. The entry contains 80985 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Outer capsid VP4.

Mol	Chain	Residues	Atoms	AltConf	Trace
1	A	41	Total C N O S 291 177 48 65 1	0	0
1	B	604	Total C N O S 4508 2858 761 872 17	0	0
1	C	41	Total C N O S 291 177 48 65 1	0	0
1	D	604	Total C N O S 4508 2858 761 872 17	0	0
1	E	41	Total C N O S 291 177 48 65 1	0	0
1	F	604	Total C N O S 4508 2858 761 872 17	0	0
1	G	41	Total C N O S 284 174 46 63 1	0	0
1	H	604	Total C N O S 4508 2858 761 872 17	0	0
1	I	41	Total C N O S 291 177 48 65 1	0	0
1	J	604	Total C N O S 4508 2858 761 872 17	0	0
1	K	41	Total C N O S 291 177 48 65 1	0	0
1	L	604	Total C N O S 4508 2858 761 872 17	0	0
1	M	41	Total C N O S 284 174 46 63 1	0	0
1	N	604	Total C N O S 4508 2858 761 872 17	0	0
1	O	41	Total C N O S 291 177 48 65 1	0	0
1	P	604	Total C N O S 4508 2858 761 872 17	0	0
1	Q	41	Total C N O S 291 177 48 65 1	0	0

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Mol	Chain	Residues	Atoms					AltConf	Trace
1	R	604	Total	C	N	O	S	0	0
			4508	2858	761	872	17		
1	S	41	Total	C	N	O	S	0	0
			284	174	46	63	1		
1	T	604	Total	C	N	O	S	0	0
			4508	2858	761	872	17		

- Molecule 2 is a protein called Core protein VP6.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	U	411	Total	C	N	O	S	0	0
			3138	2008	544	571	15		
2	V	411	Total	C	N	O	S	0	0
			3138	2008	544	571	15		

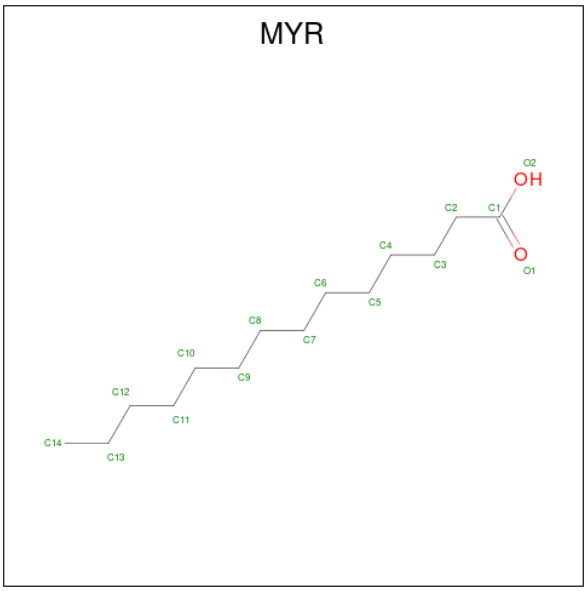
- Molecule 3 is a protein called VP1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	W	1284	Total	C	N	O	S	0	0
			9882	6335	1681	1839	27		

- Molecule 4 is a protein called VP3.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	X	1018	Total	C	N	O	S	0	0
			7873	5033	1347	1447	46		
4	Y	1154	Total	C	N	O	S	0	0
			8835	5604	1525	1656	50		

- Molecule 5 is MYRISTIC ACID (CCD ID: MYR) (formula: $C_{14}H_{28}O_2$).



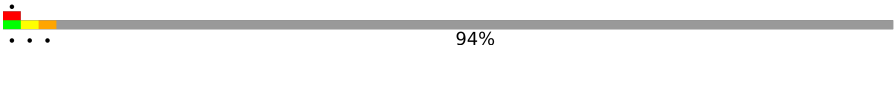
Mol	Chain	Residues	Atoms			AltConf
5	A	1	Total	C	O	0
			15	14	1	
5	C	1	Total	C	O	0
			15	14	1	
5	E	1	Total	C	O	0
			15	14	1	
5	G	1	Total	C	O	0
			15	14	1	
5	I	1	Total	C	O	0
			15	14	1	
5	K	1	Total	C	O	0
			15	14	1	
5	M	1	Total	C	O	0
			15	14	1	
5	O	1	Total	C	O	0
			15	14	1	
5	Q	1	Total	C	O	0
			15	14	1	
5	S	1	Total	C	O	0
			15	14	1	

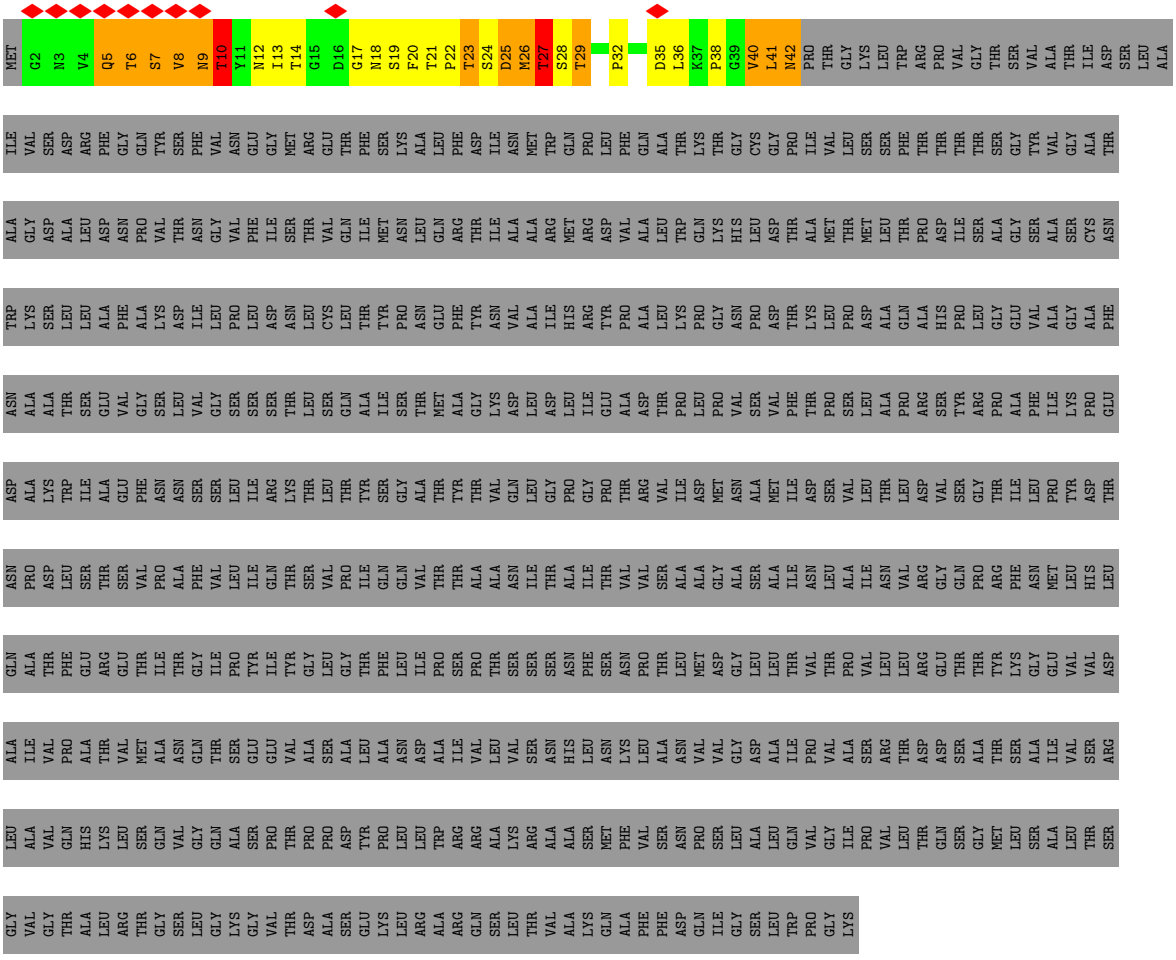
3 Residue-property plots (i)

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

• Molecule 1: Outer capsid VP4

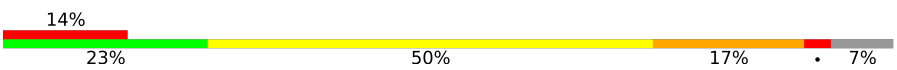
Chain A:

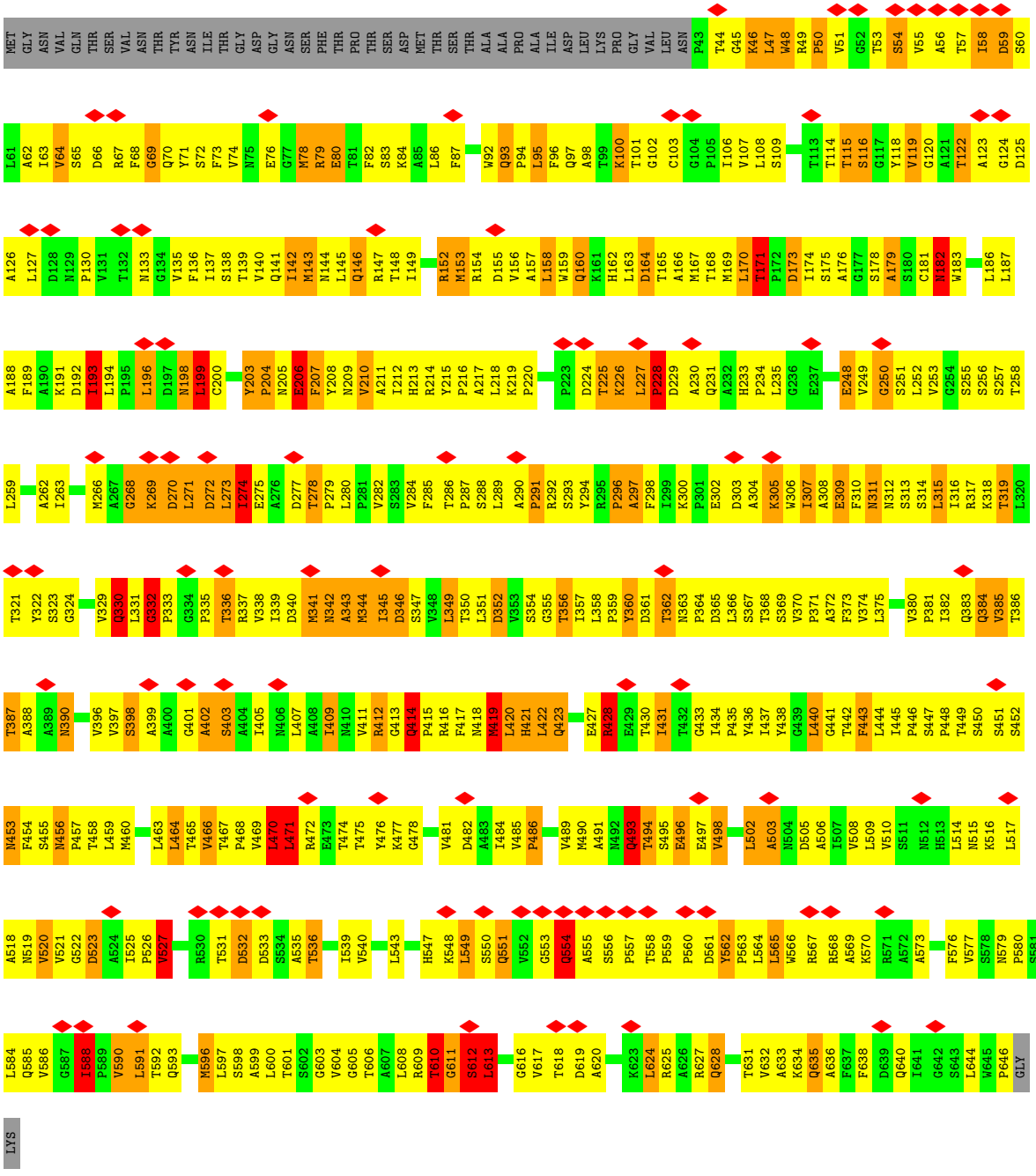




• Molecule 1: Outer capsid VP4

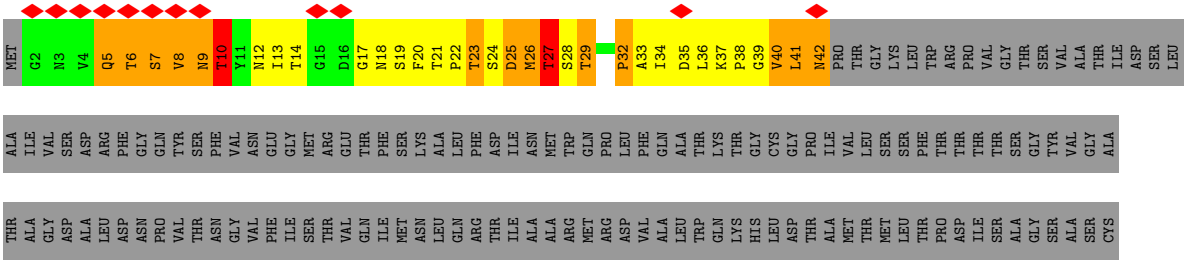
Chain B:

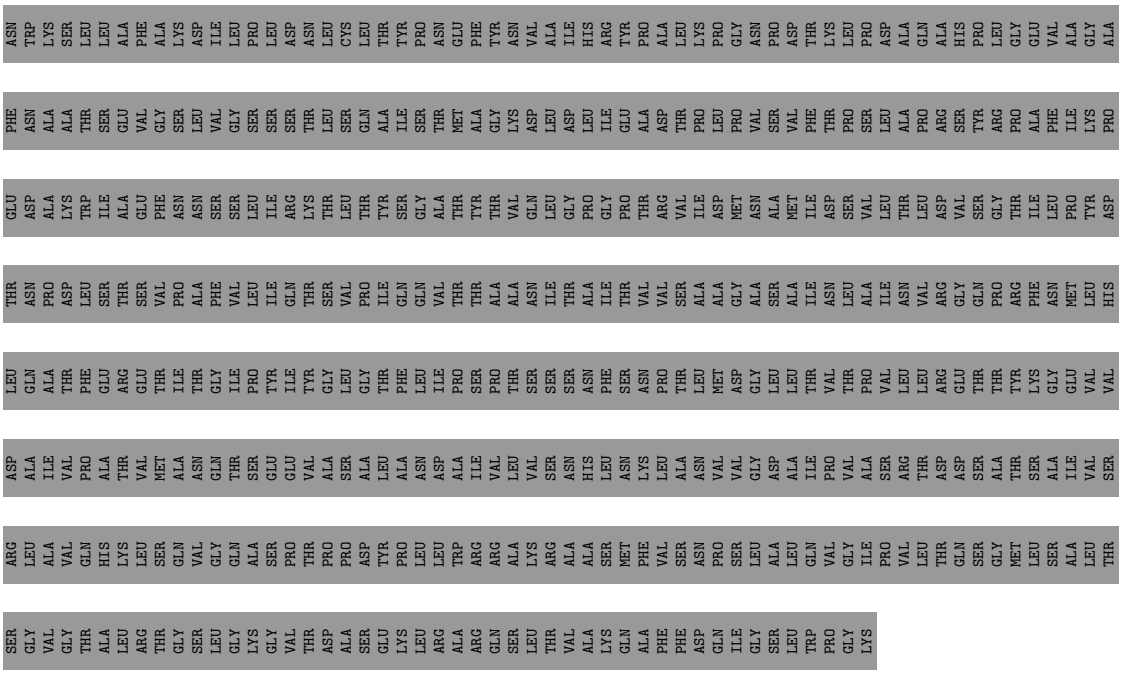




• Molecule 1: Outer capsid VP4

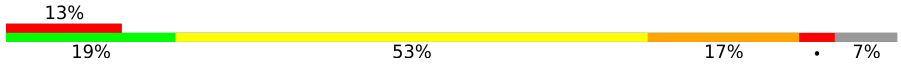
Chain C: 94%

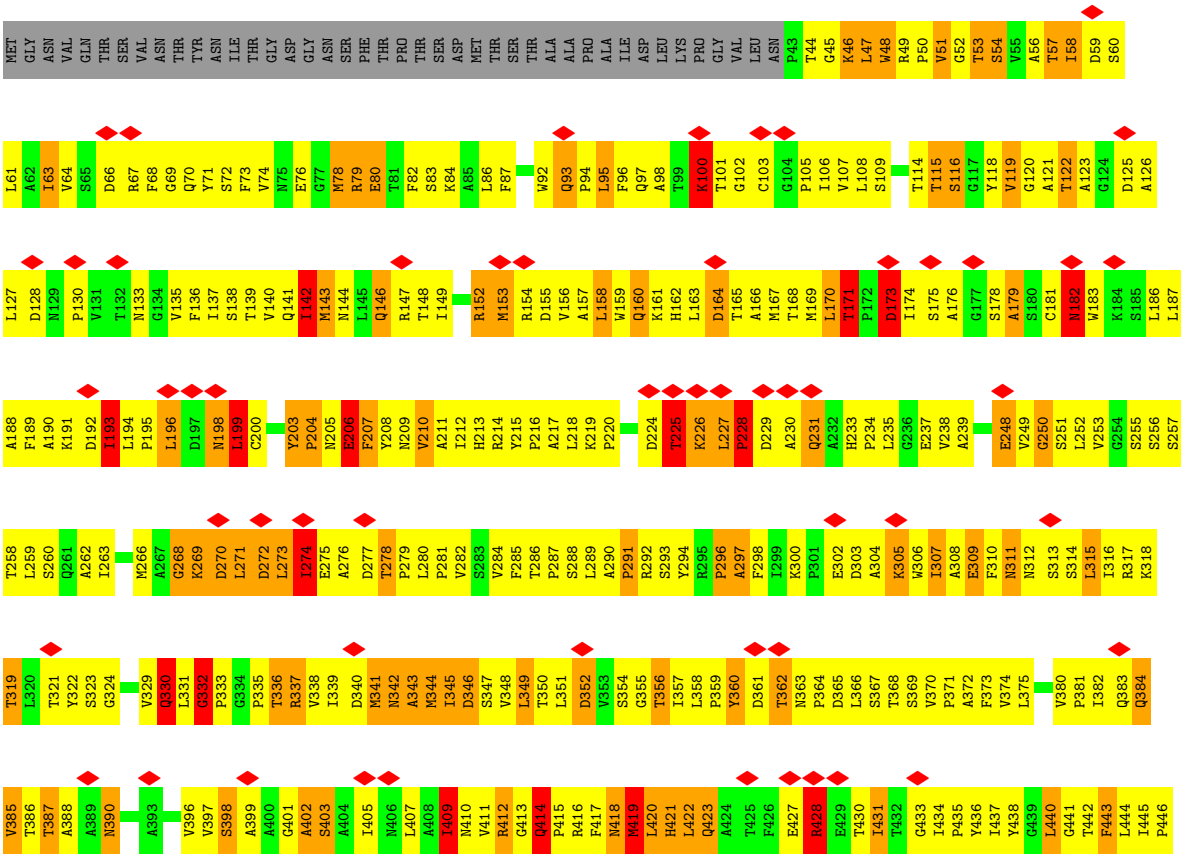


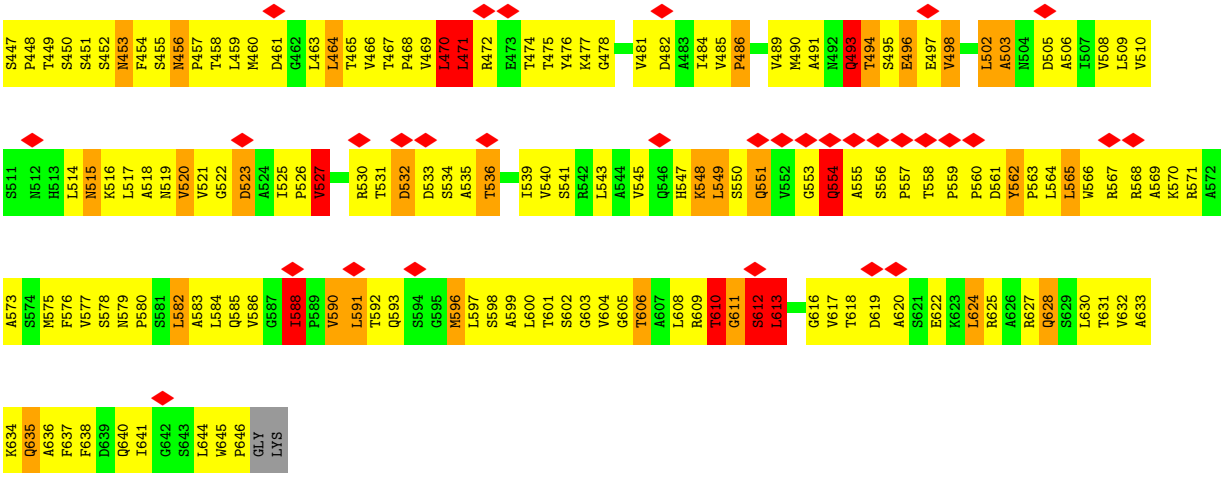


• Molecule 1: Outer capsid VP4

Chain D:

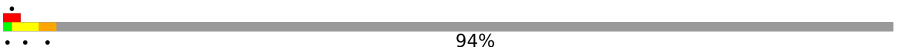


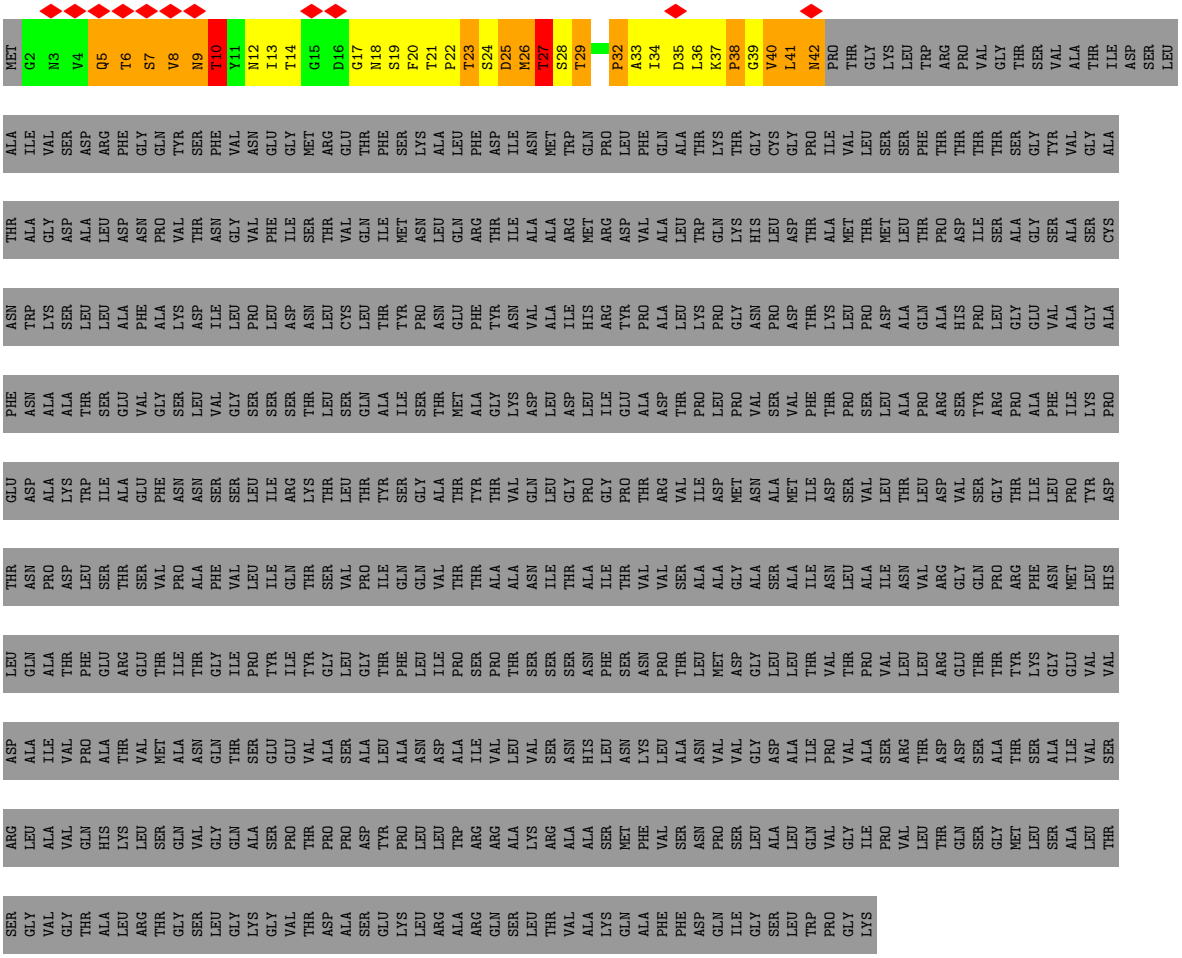




• Molecule 1: Outer capsid VP4

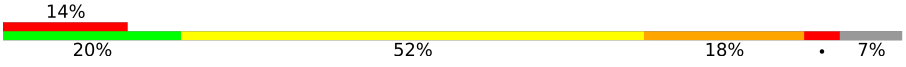
Chain E:

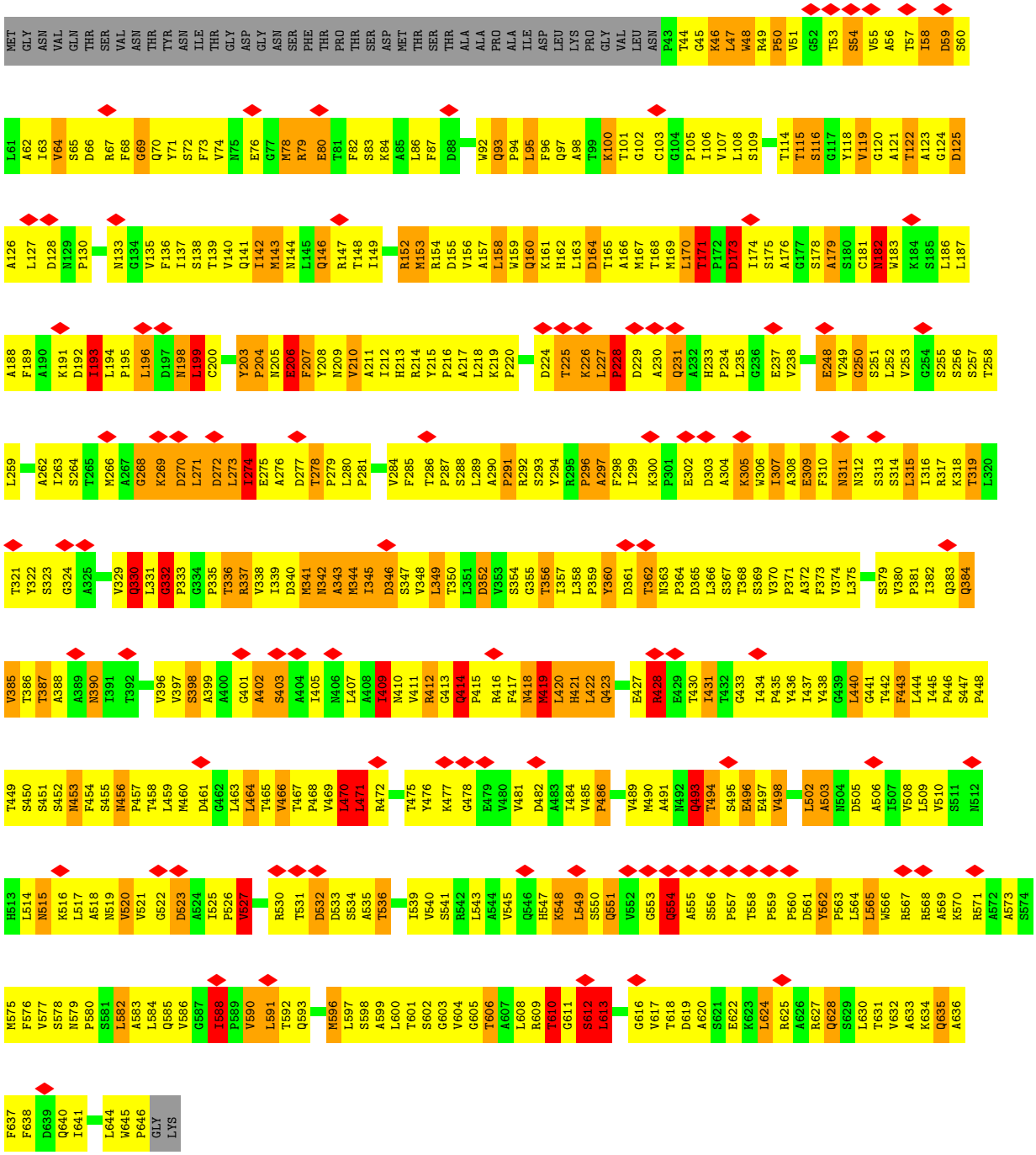




• Molecule 1: Outer capsid VP4

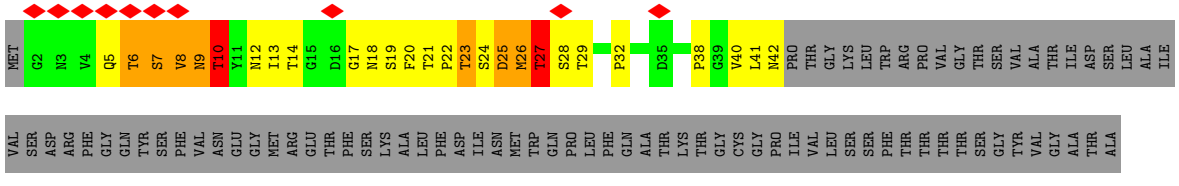
Chain F:

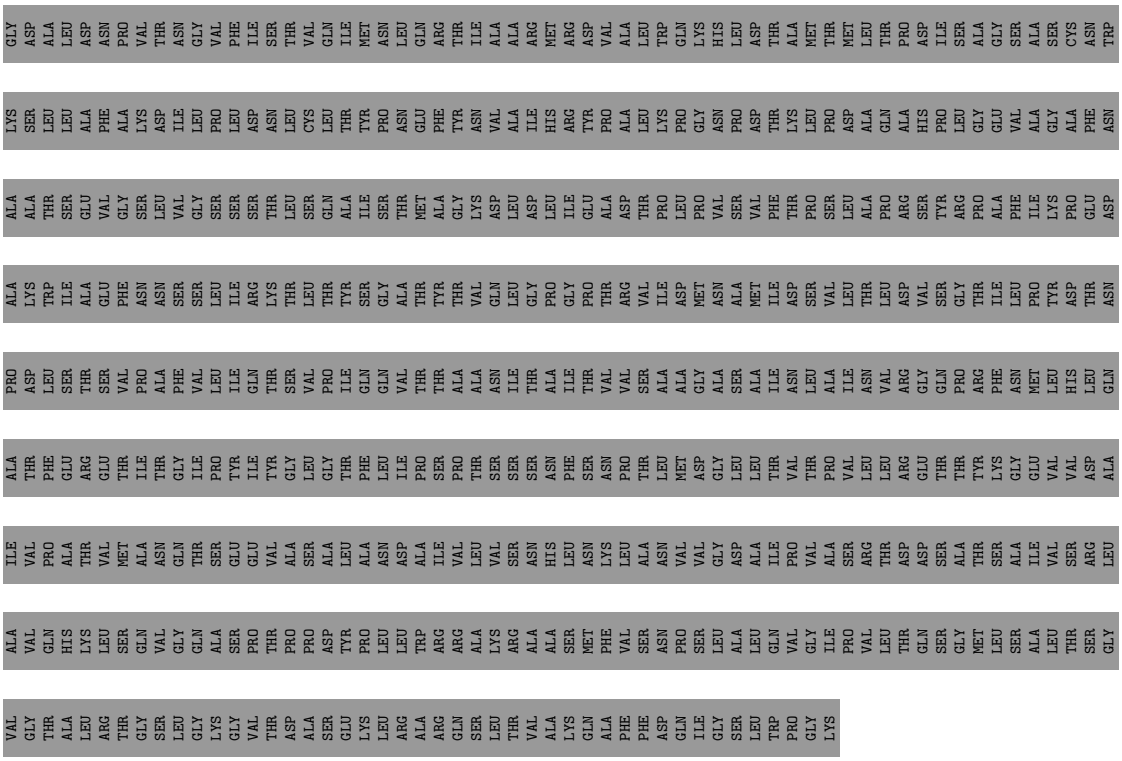




• Molecule 1: Outer capsid VP4

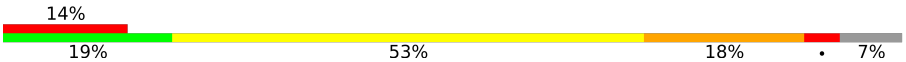
Chain G: 94%

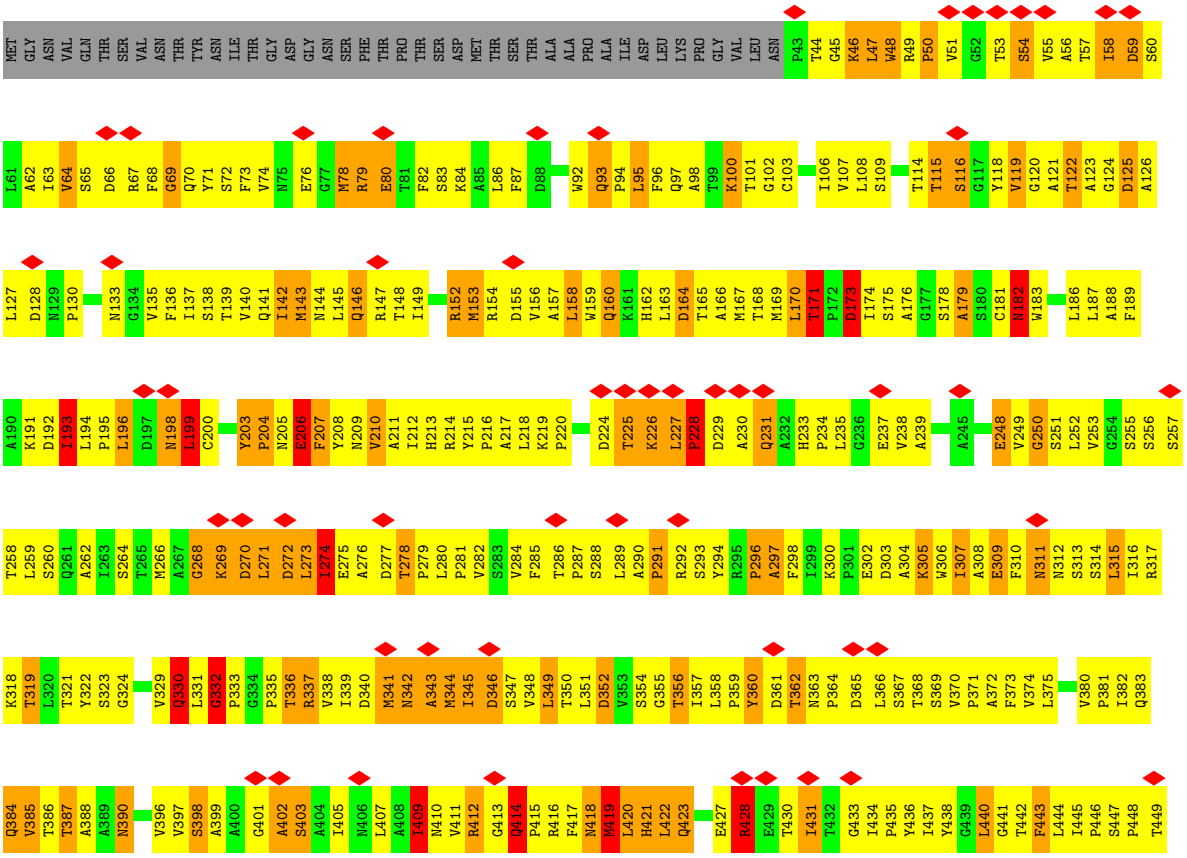


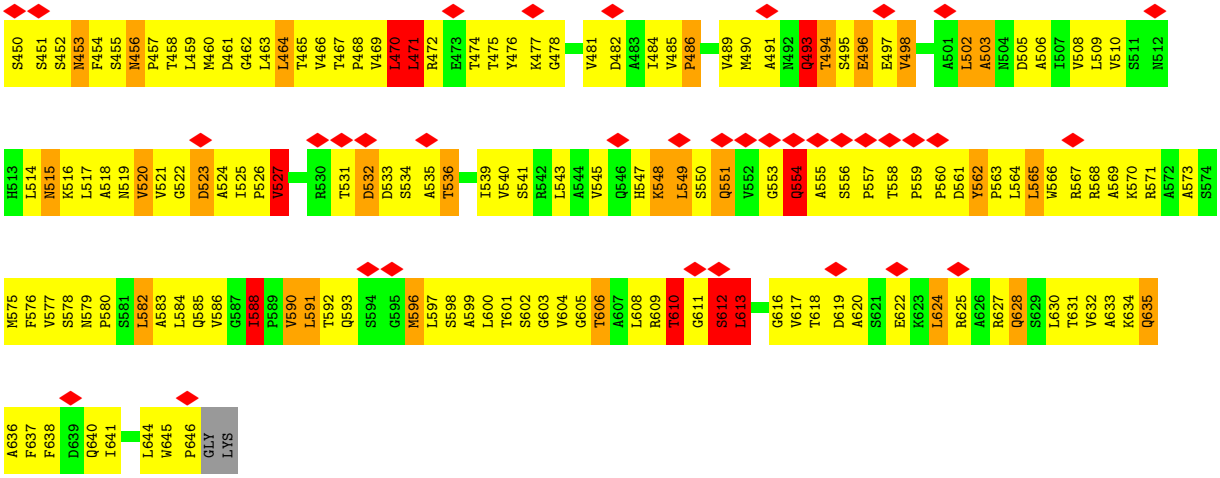


• Molecule 1: Outer capsid VP4

Chain H:

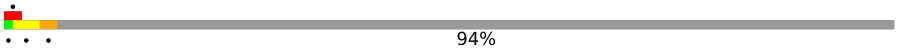


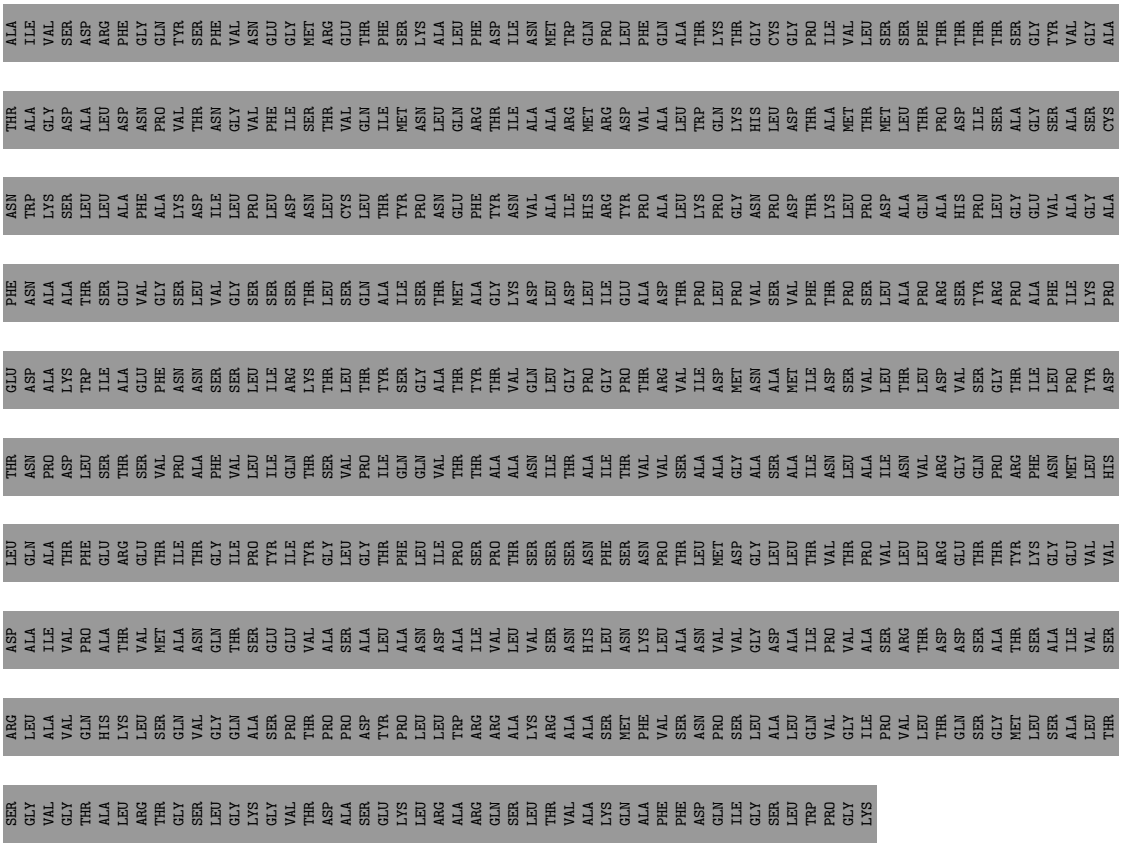




• Molecule 1: Outer capsid VP4

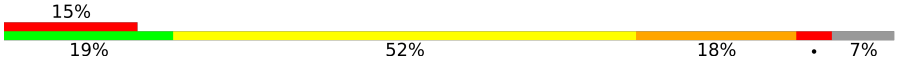
Chain I:

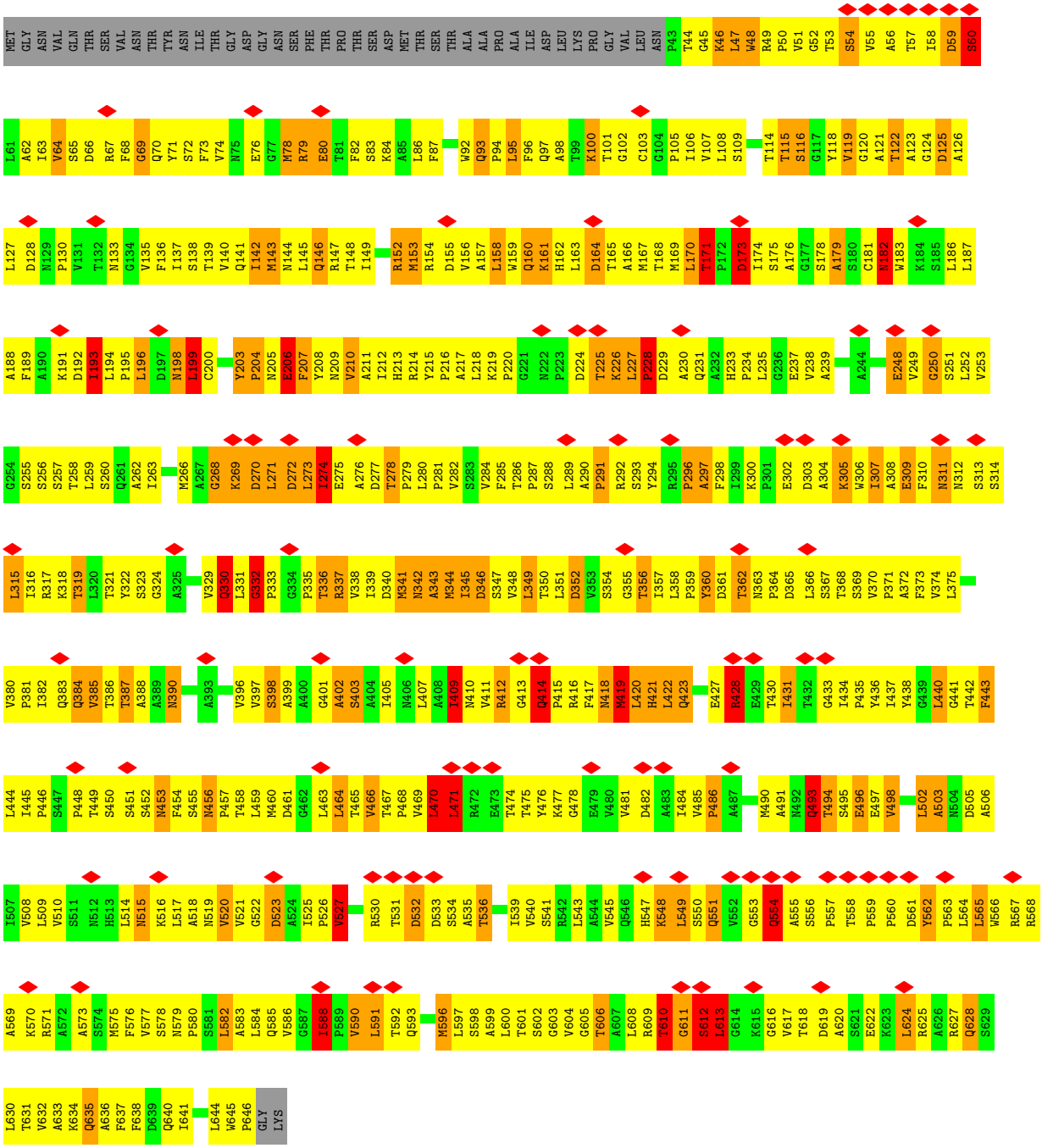




• Molecule 1: Outer capsid VP4

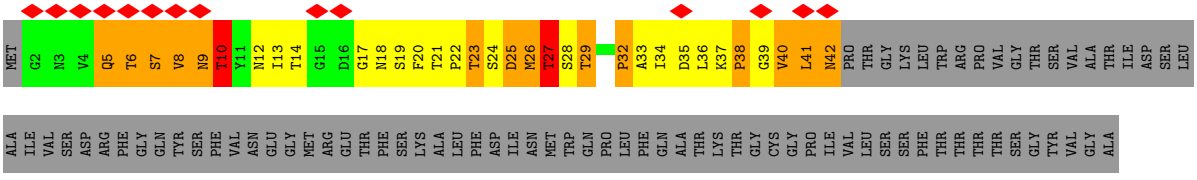
Chain J:

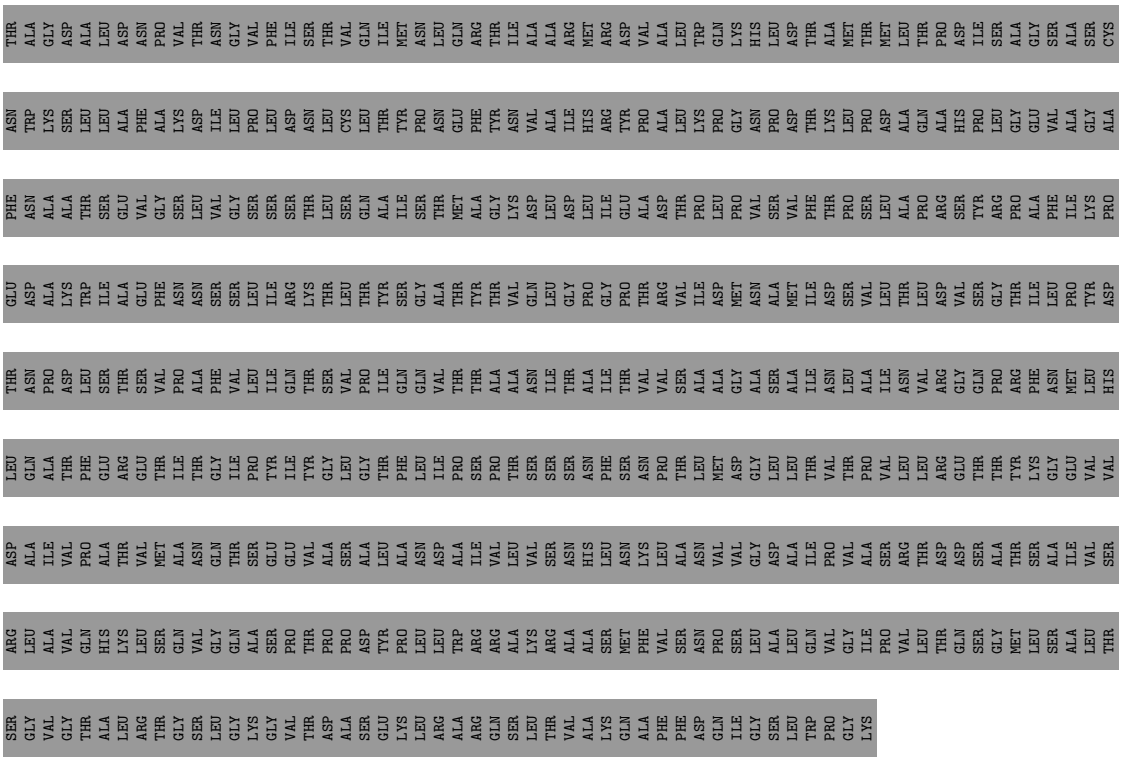




• Molecule 1: Outer capsid VP4

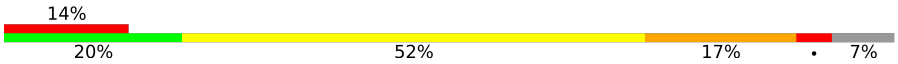
Chain K:

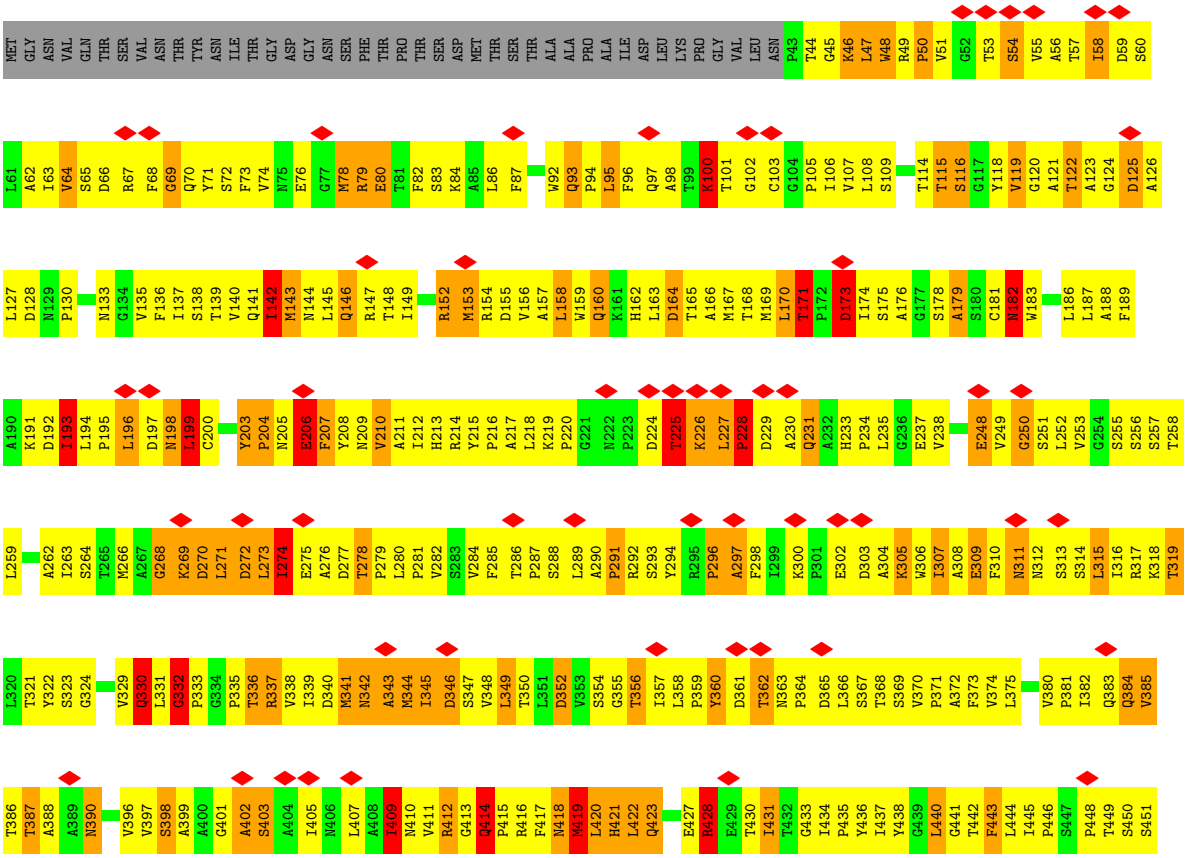


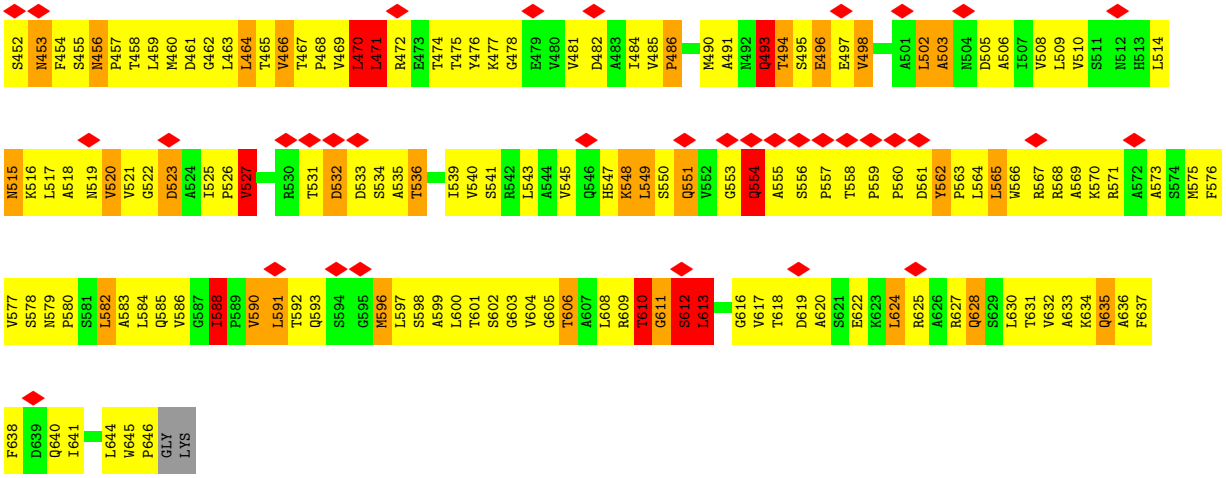


• Molecule 1: Outer capsid VP4

Chain L:

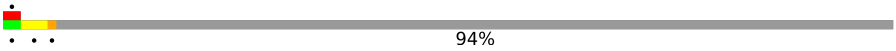


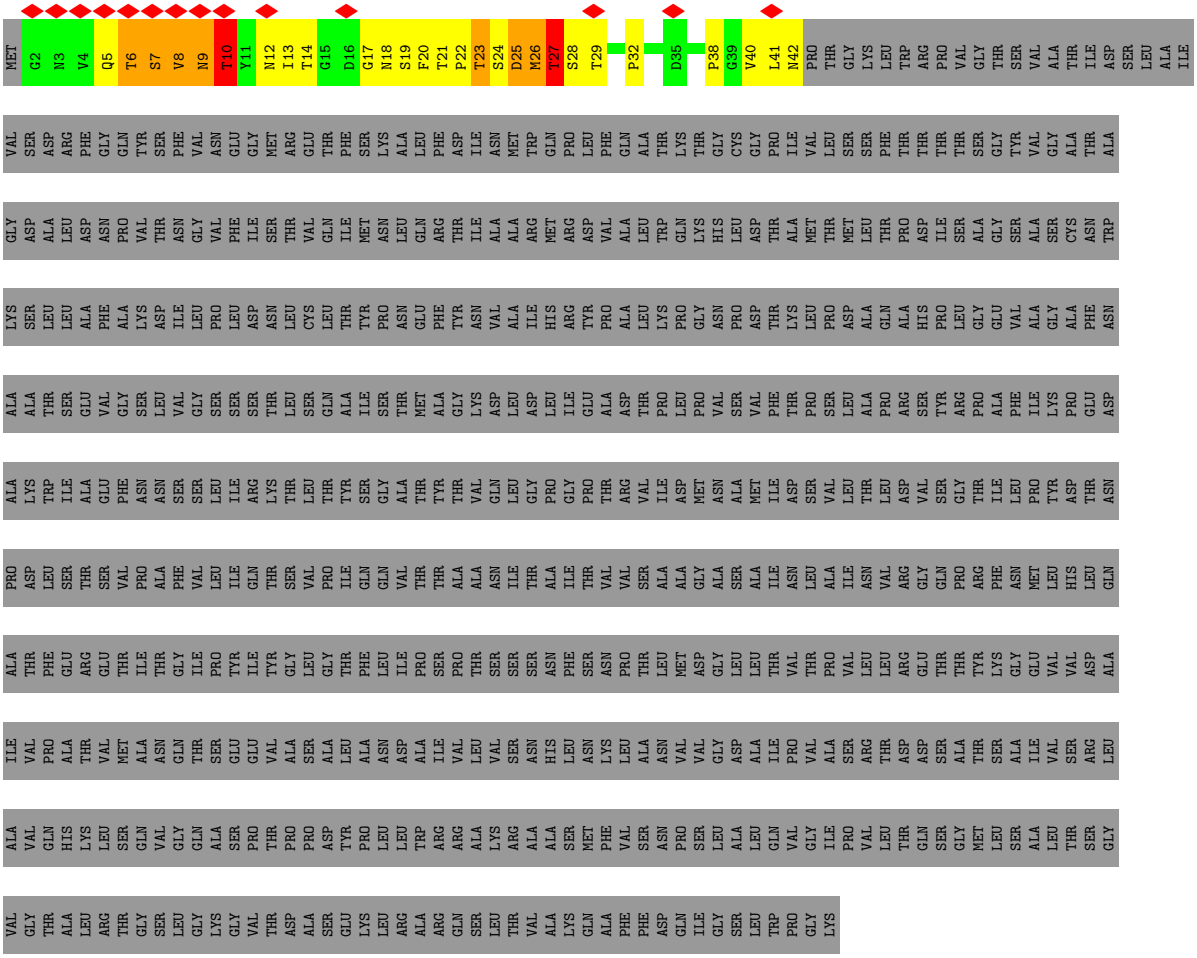




• Molecule 1: Outer capsid VP4

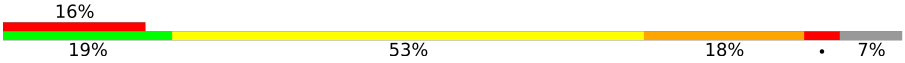
Chain M:

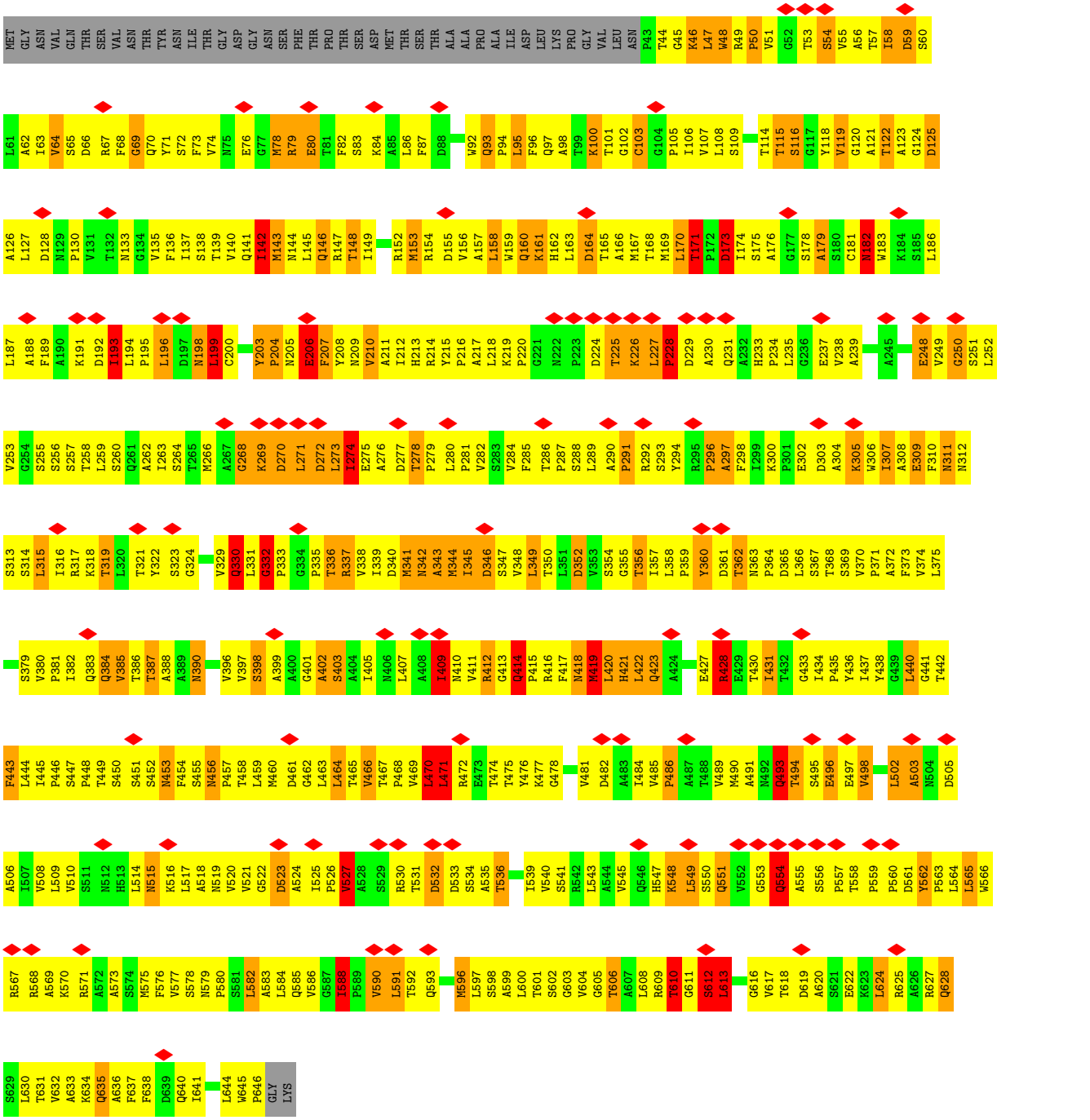




• Molecule 1: Outer capsid VP4

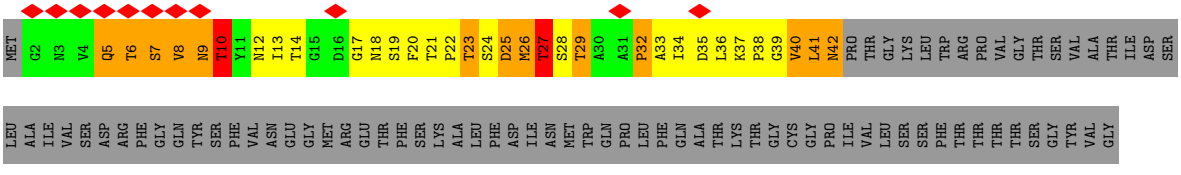
Chain N:

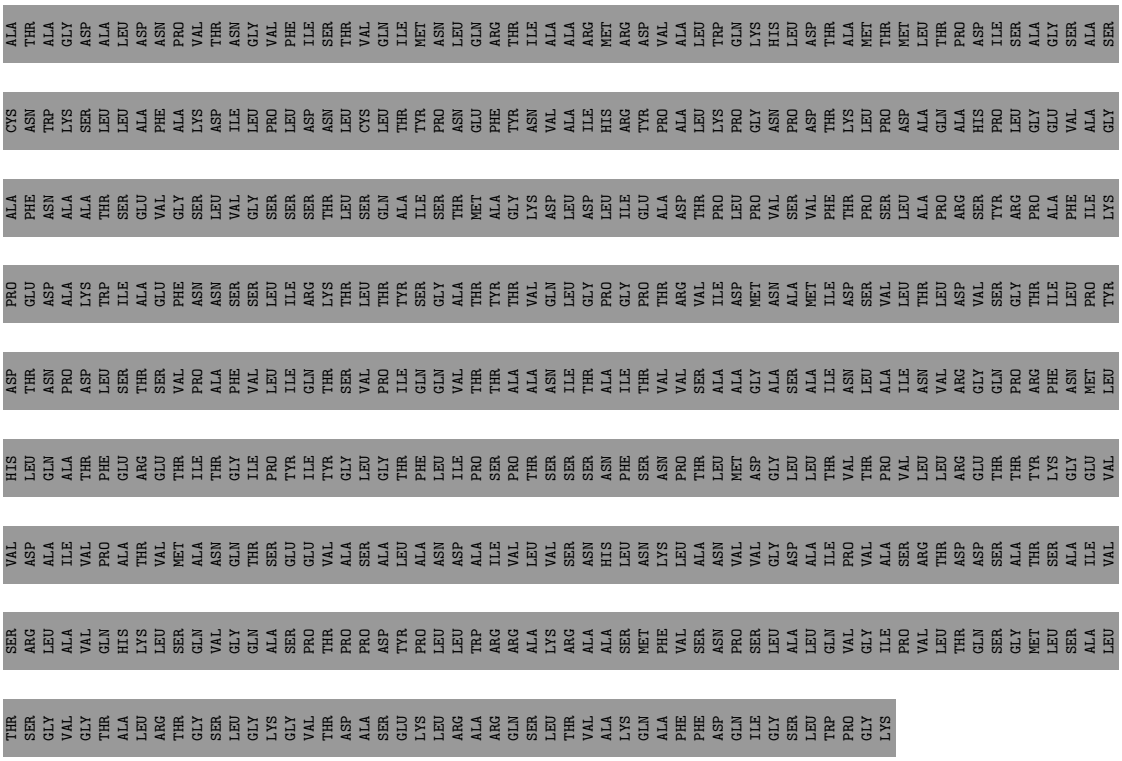




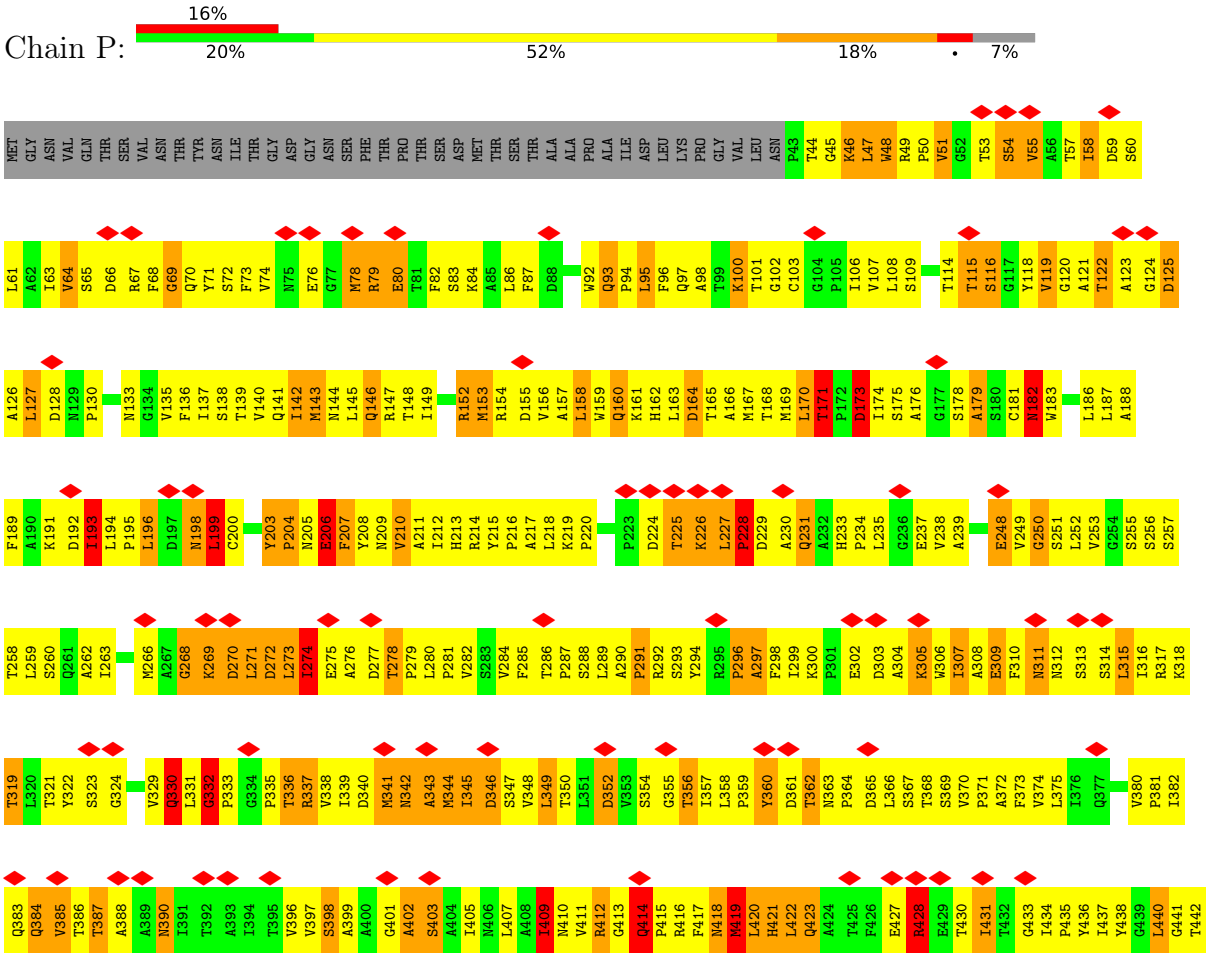
• Molecule 1: Outer capsid VP4

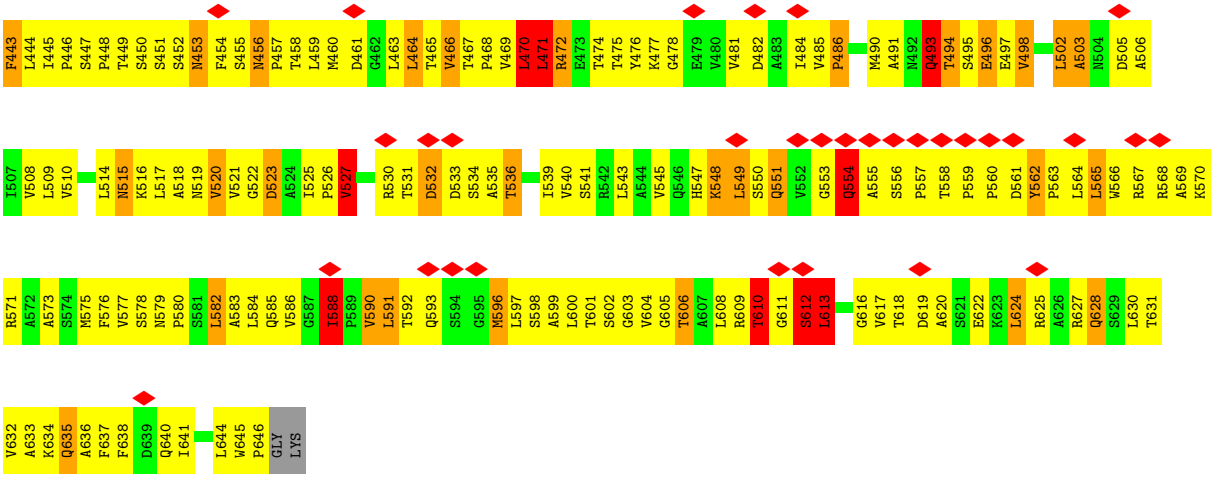
Chain O: 94%





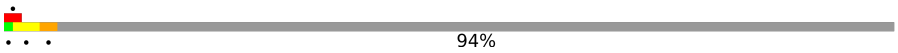
• Molecule 1: Outer capsid VP4

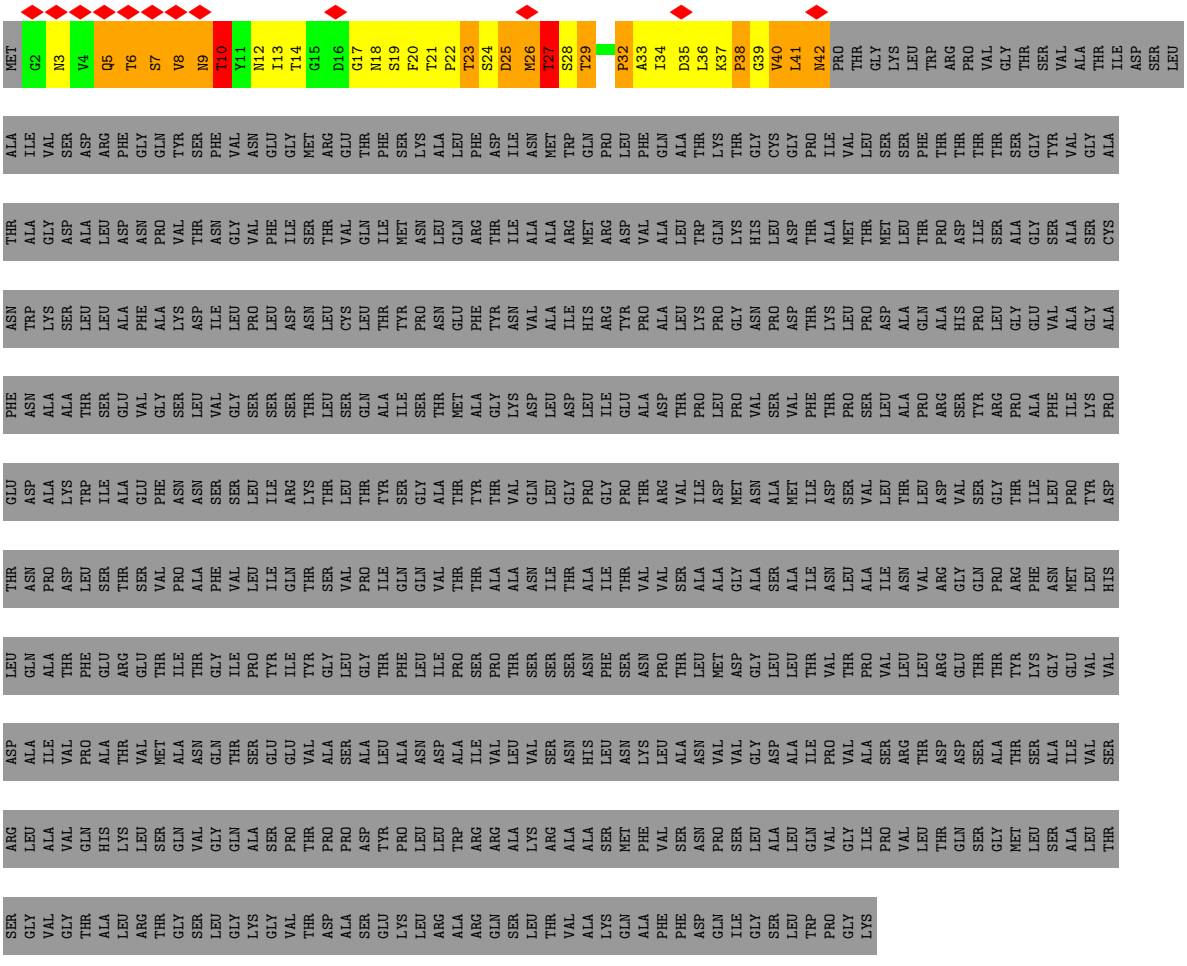




• Molecule 1: Outer capsid VP4

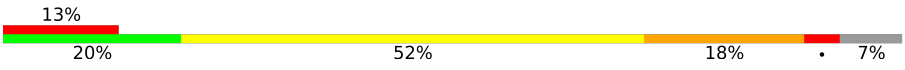
Chain Q:

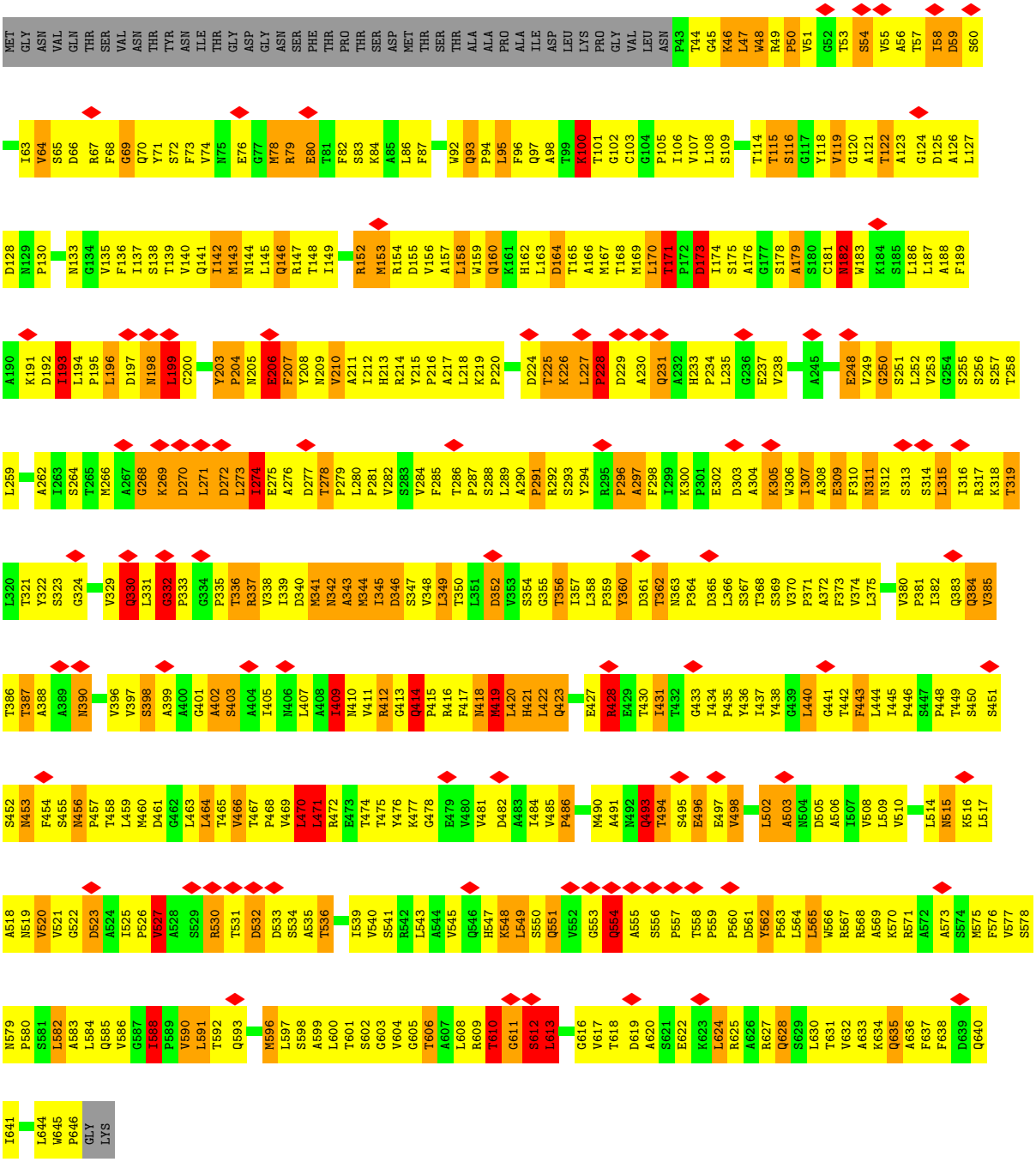




• Molecule 1: Outer capsid VP4

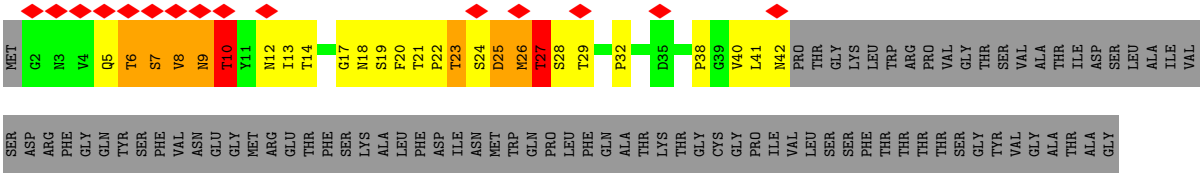
Chain R:

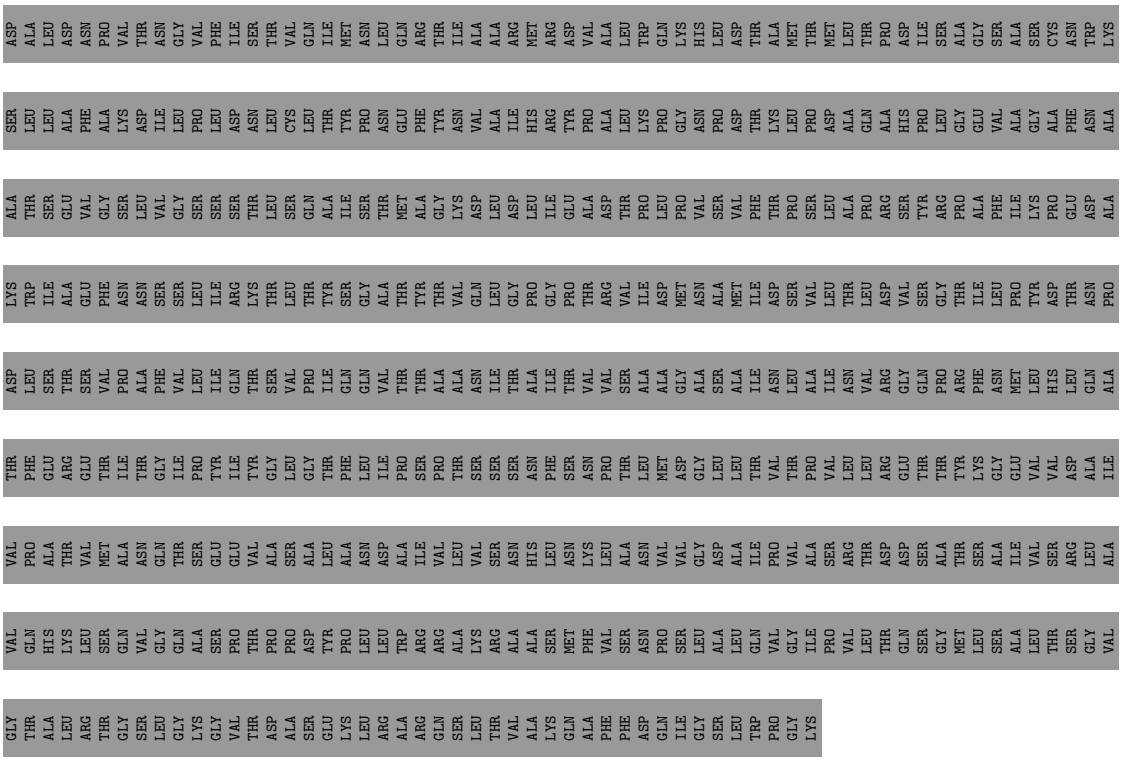




• Molecule 1: Outer capsid VP4

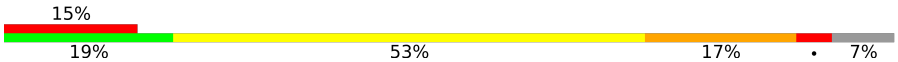
Chain S:

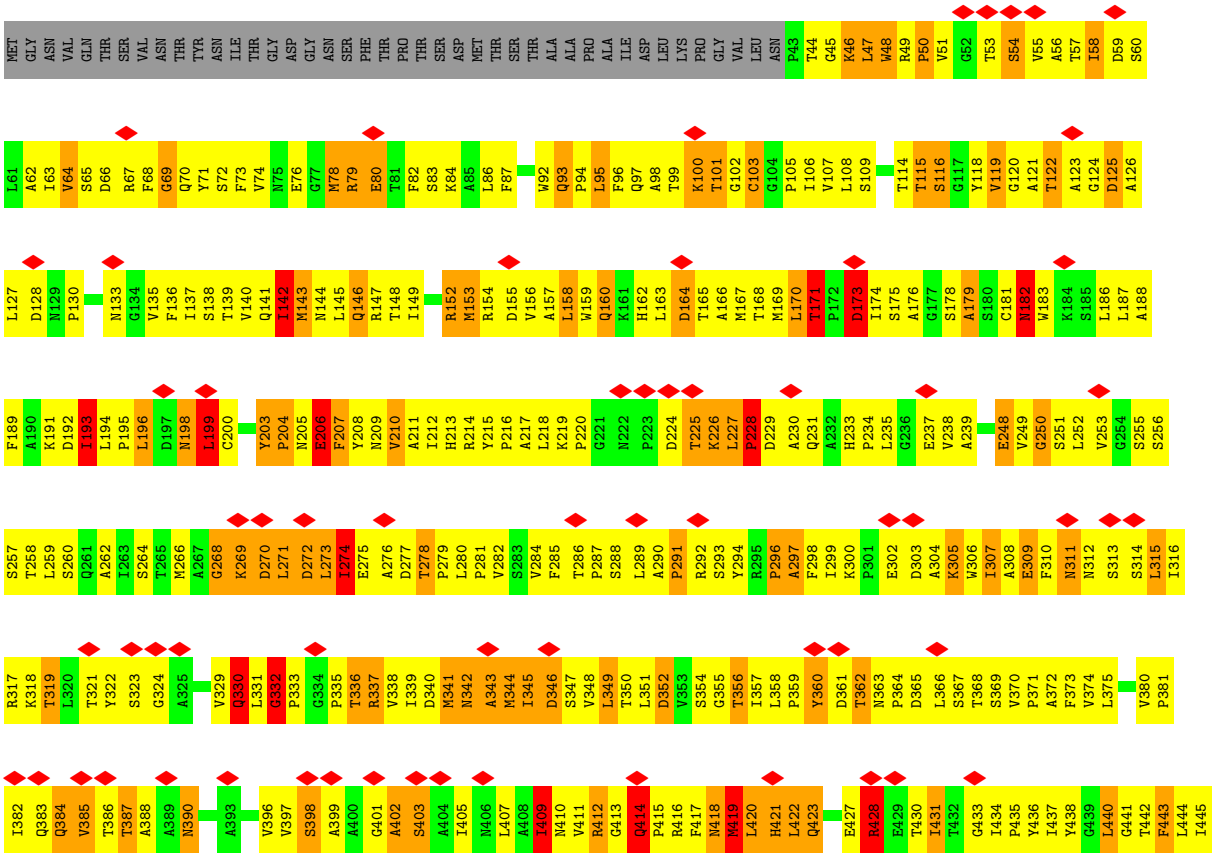


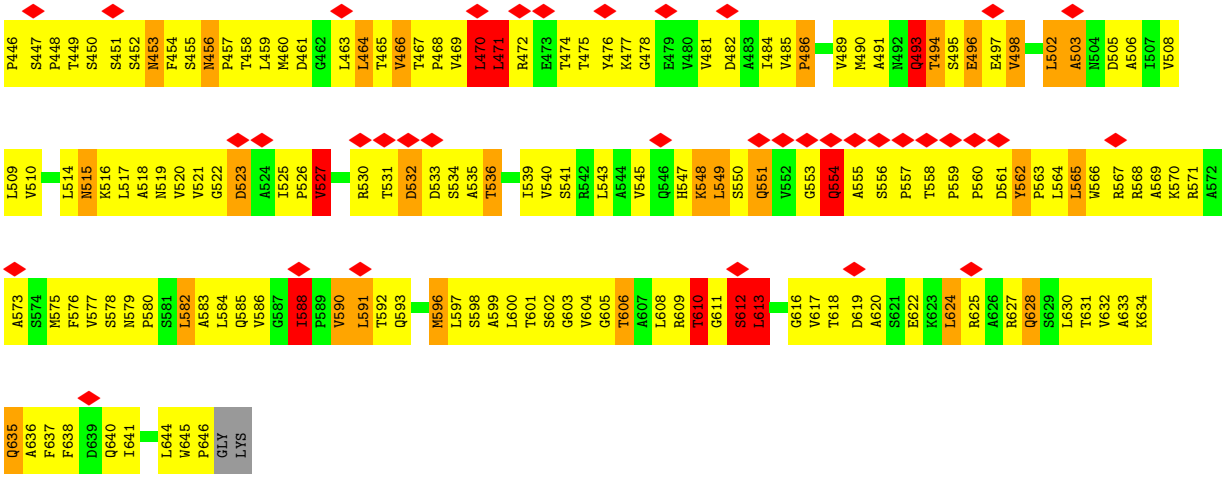


• Molecule 1: Outer capsid VP4

Chain T:

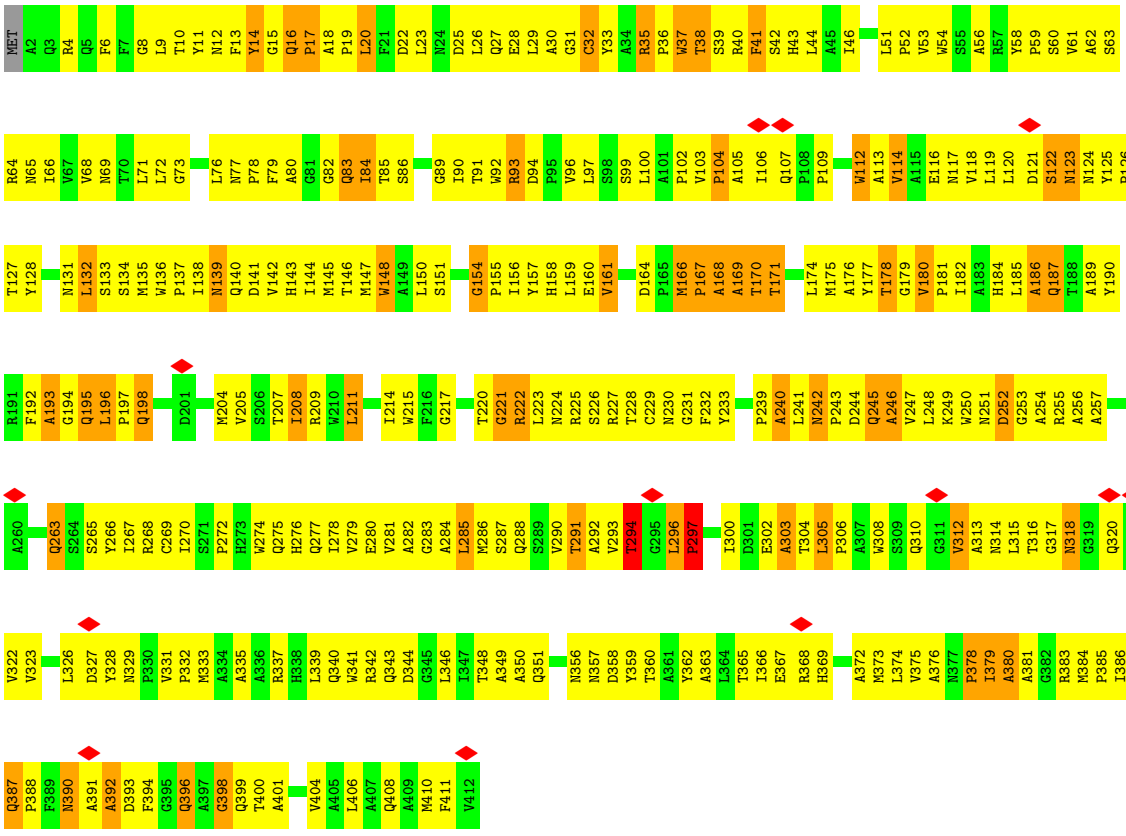






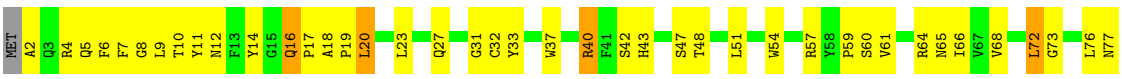
• Molecule 2: Core protein VP6

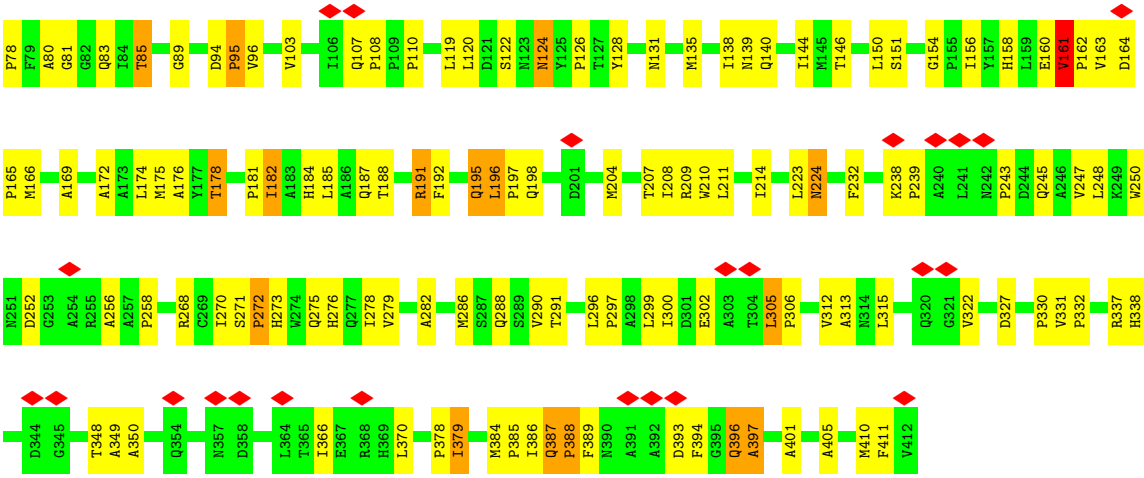
Chain U:



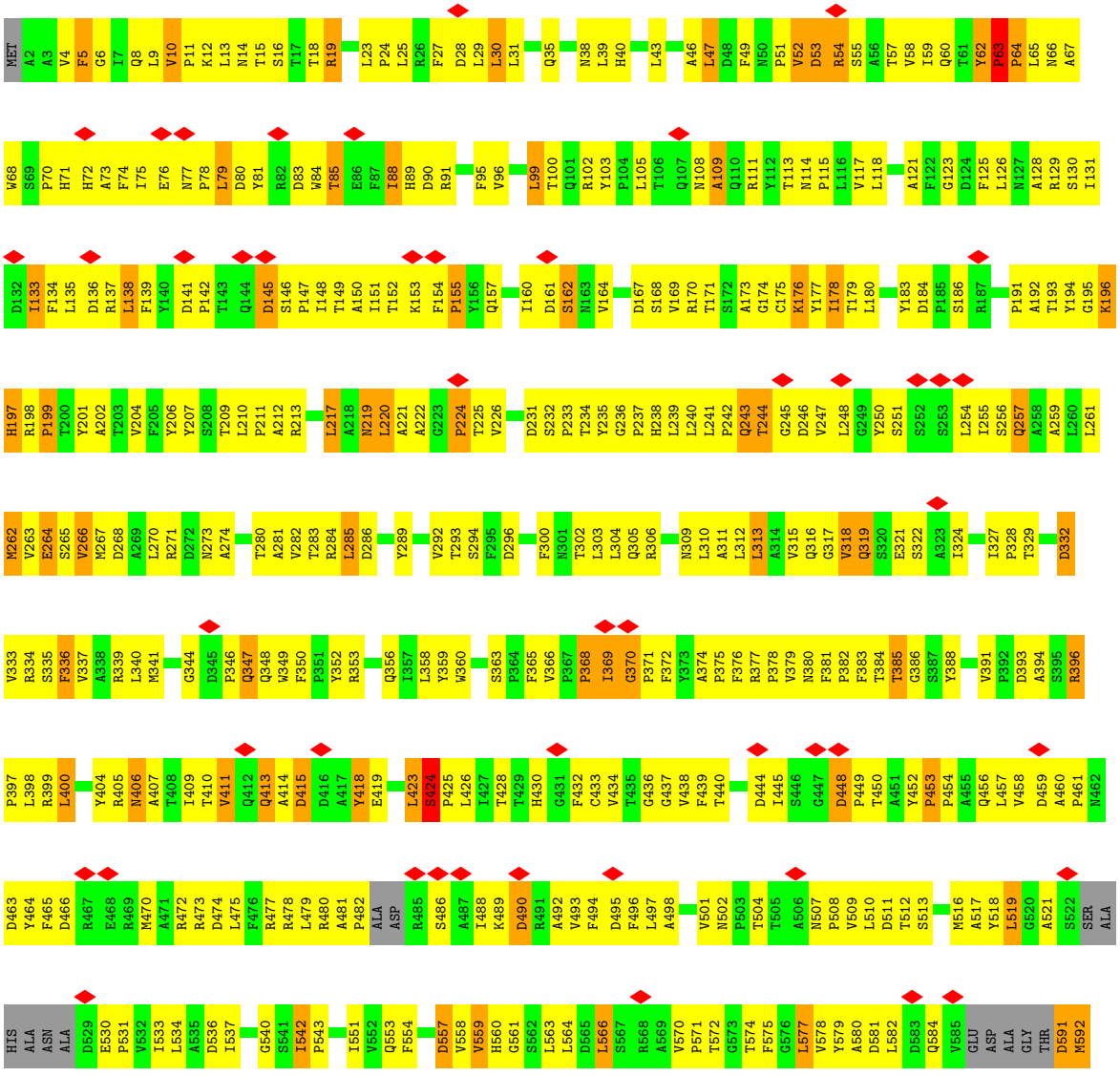
• Molecule 2: Core protein VP6

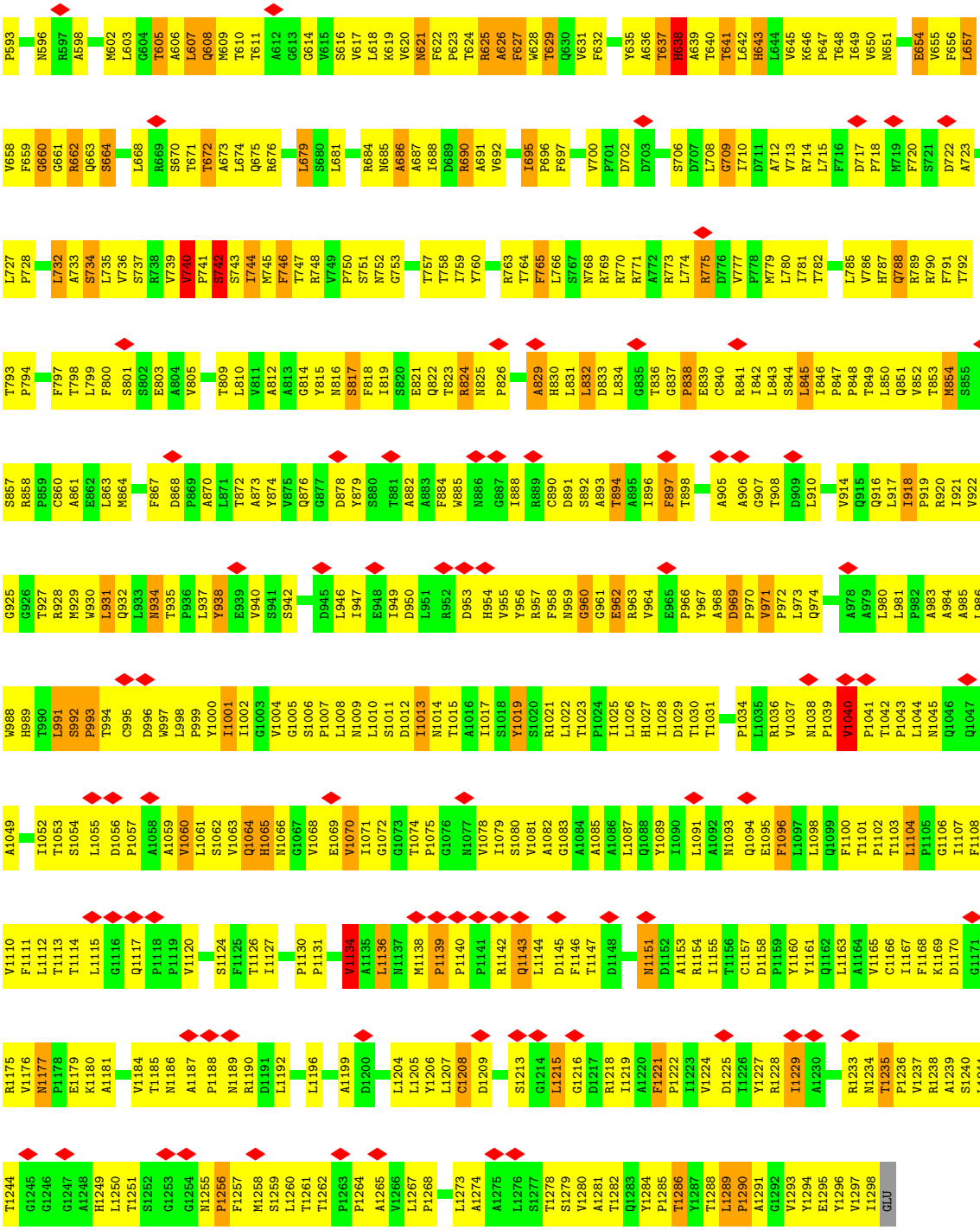
Chain V:





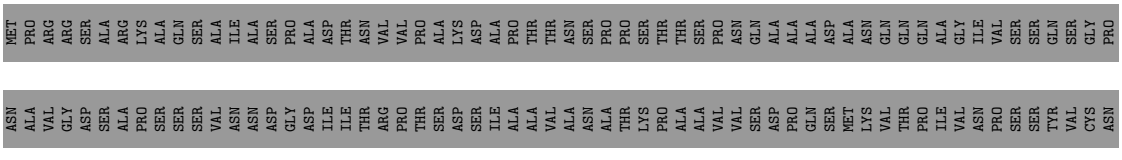
- Molecule 3: VP1

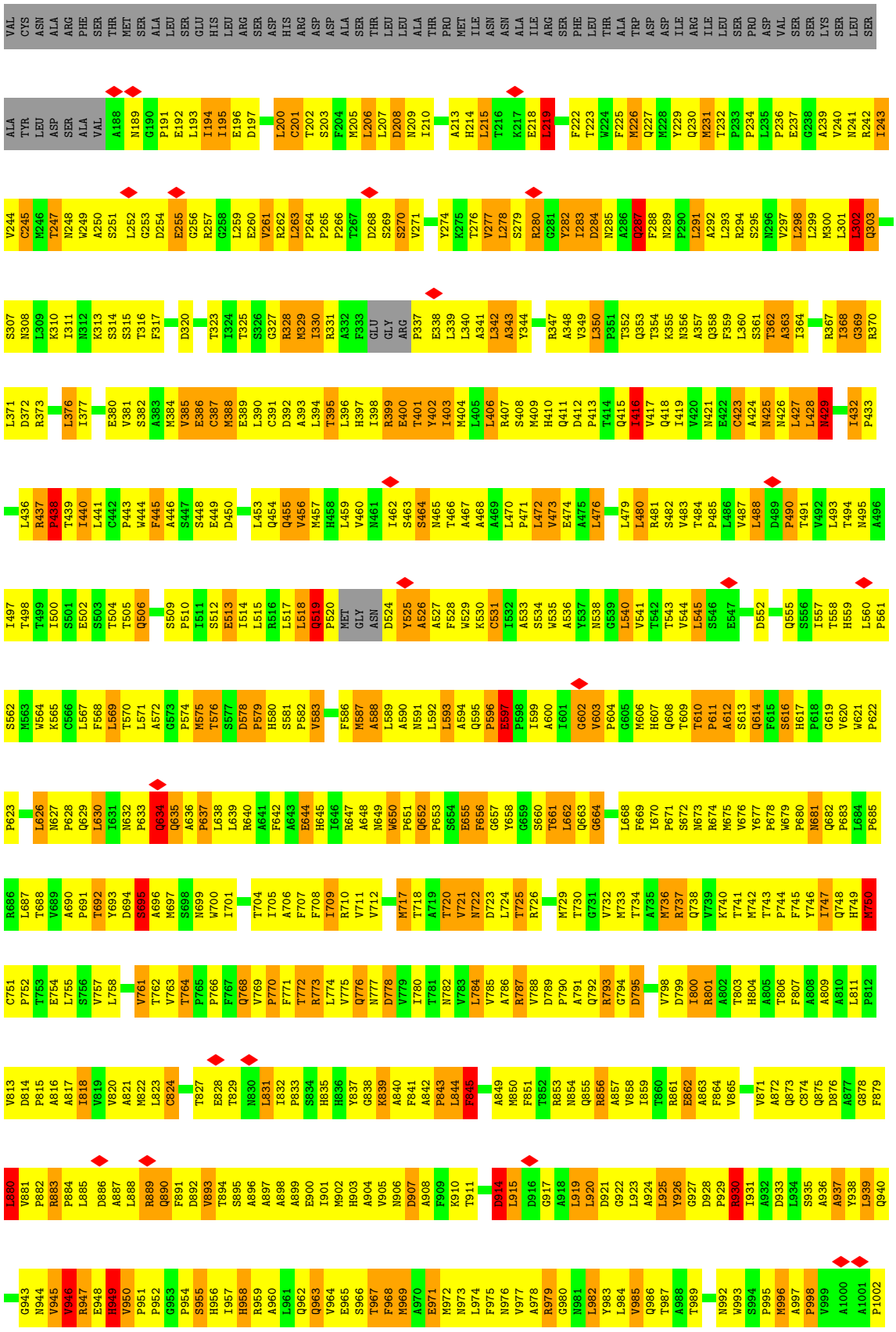


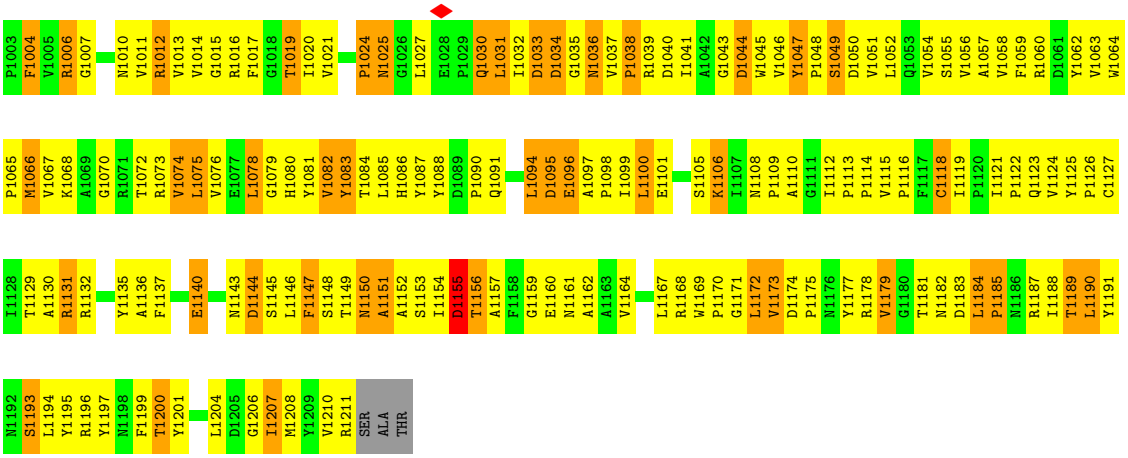


• Molecule 4: VP3

Chain X:

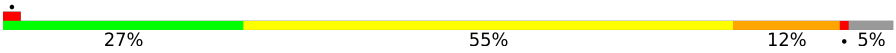


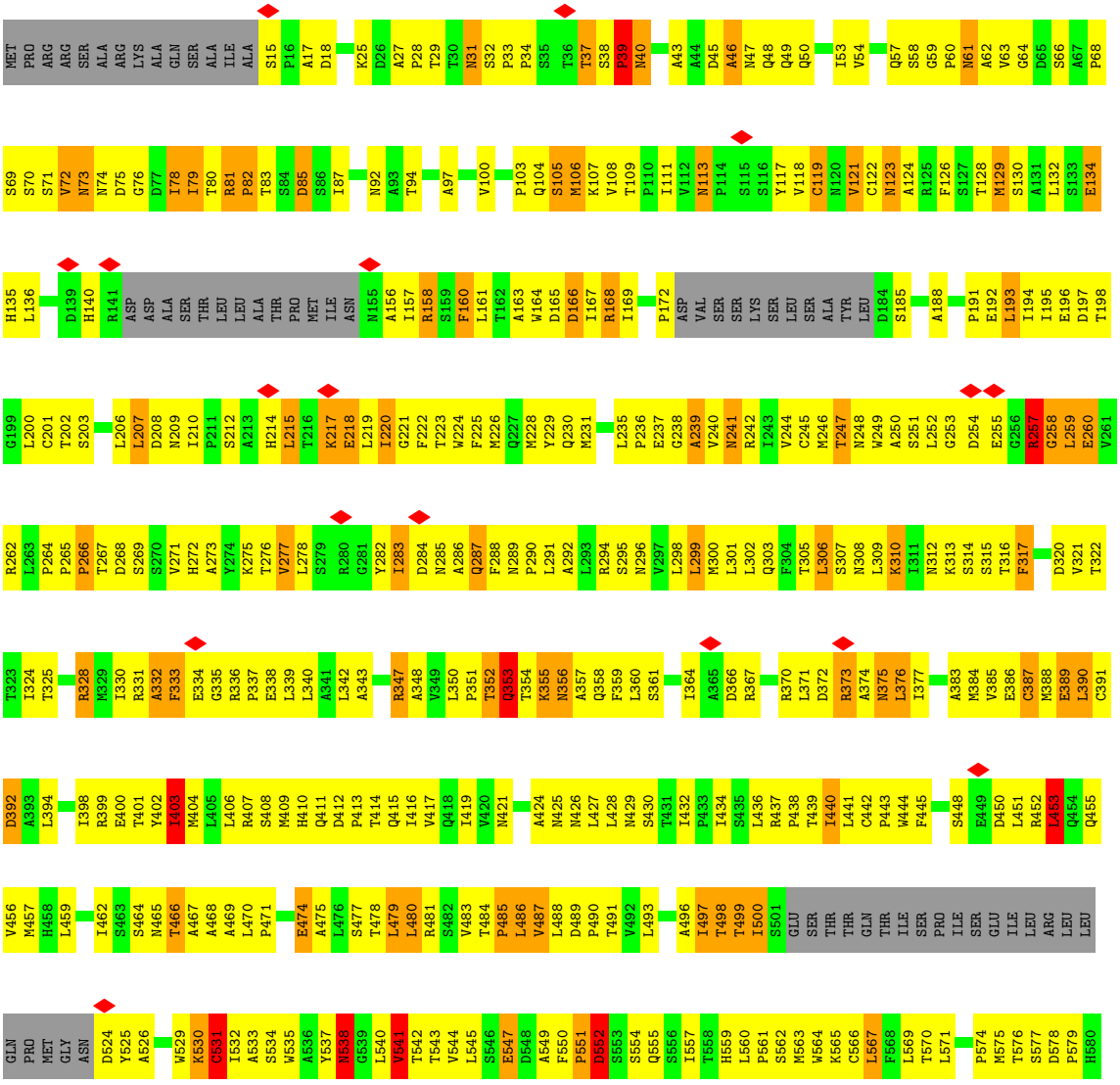


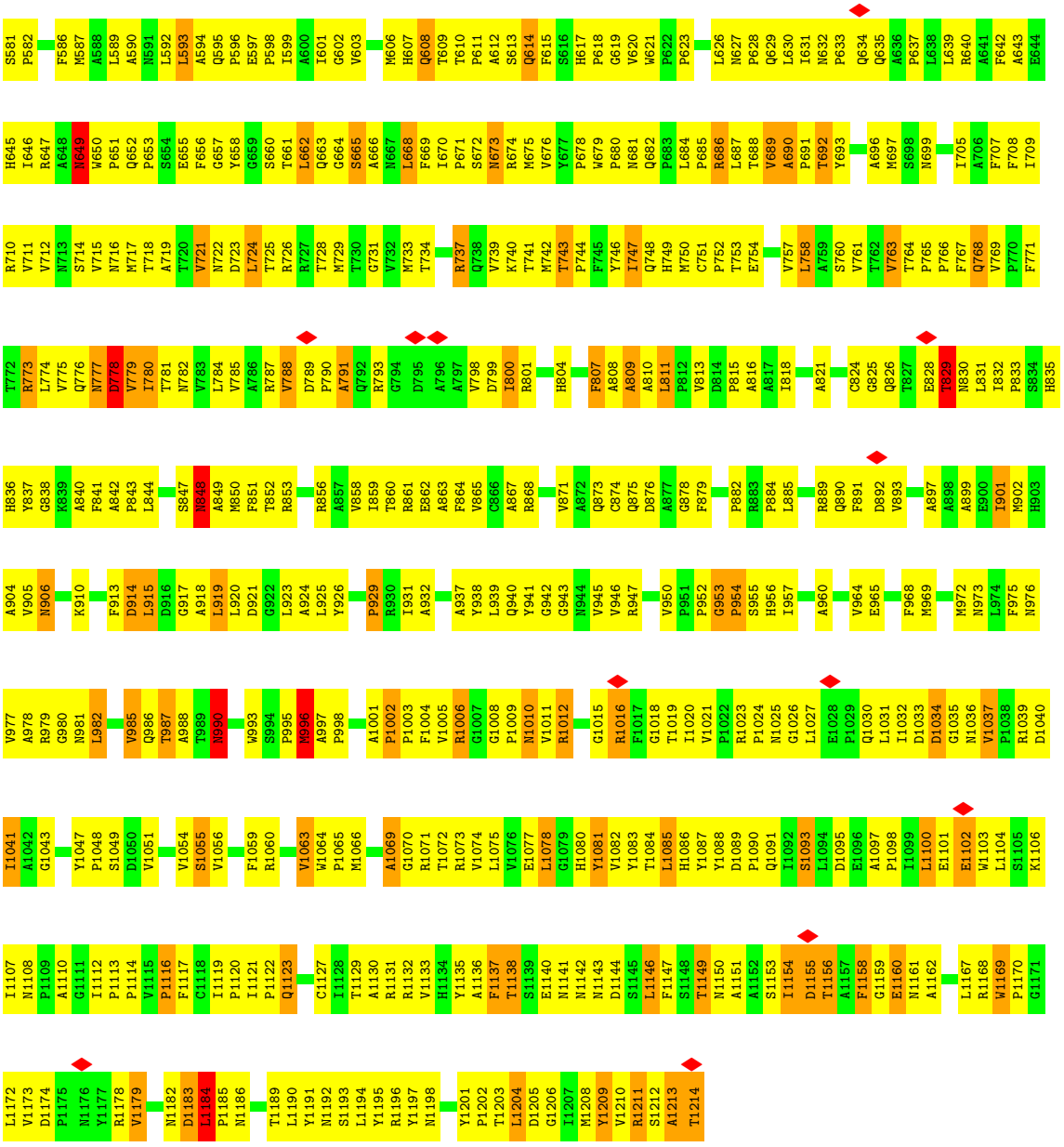


• Molecule 4: VP3

Chain Y:



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H645 I646 R647 A648 N649 W650 P651 Q652 P653 S654 E655 F656 G657 Y658 G659 S660 T661 L662 Q663 G664 S665 A666 N667 L668 F669 I670 P671 S672 N673 R674 M675 V676 Y677 P678 W679 P680 N681 Q682 P683 L684 P685 R686 L687 T688 V689 A690 P691 T692 Y693 A696 M697 S698 N699 I705 A706 F707 F708 I709
R710 V711 V712 N713 S714 V715 N716 M717 T718 A719 T720 V721 N722 D723 L724 T725 R726 R727 T728 M729 T730 G731 V732 M733 T734 R737 Q738 V739 K740 T741 M742 T743 P744 F745 Y746 I747 Q748 H749 M750 C751 P752 T753 E754 V757 L758 A759 S760 V761 T762 V763 T764 P765 P766 F767 Q768 V769 P770 F771
T772 R773 L774 V775 Q776 N777 D778 V779 I780 T781 N782 V783 L784 V785 A786 R787 V788 D789 P790 A791 Q792 R793 G794 D795 A796 A797 V798 D799 I800 R801 H804 F807 A808 A809 A810 L811 P812 V813 D814 P815 A816 A817 I818 A821 C824 G825 Q826 T827 E828 T829 N830 L831 I832 P833 S834 H835
H836 Y837 G838 K839 A840 F841 A842 P843 L844 S847 N848 A849 M850 F851 T852 R853 R856 A857 V858 I859 T860 R861 E862 A863 F864 V865 C866 A867 R868 V871 A872 Q873 C874 Q875 D876 A877 G878 F879 P882 R883 P884 L885 R889 Q890 F891 D892 V893 A897 A898 A899 E900 I901 M902 H903
A904 V905 N906 K910 F913 D914 L915 D916 G917 A918 L919 L920 D921 G922 L923 A924 L925 Y926 P929 R930 I931 A932 A937 Y938 L939 Q940 Y941 G942 G943 N944 V945 V946 R947 V950 P951 P952 G953 P954 S955 H956 I957 A960 V964 E965 F968 M969 M972 N973 L974 F975 N976
V977 A978 R979 G980 N981 L982 V985 Q986 T987 A988 T989 N990 W993 S994 P995 M996 A997 P998 A1001 P1002 P1003 F1004 V1005 R1006 G1007 G1008 P1009 N1010 V1011 R1012 G1015 R1016 F1017 G1018 T1019 I1020 V1021 P1022 R1023 P1024 N1025 G1026 L1027 E1028 P1029 Q1030 L1031 I1032 D1033 D1034 G1035 N1036 V1037 P1038 R1039 D1040
I1041 A1042 G1043 Y1047 P1048 S1049 D1050 V1051 V1054 S1055 V1056 F1059 R1060 V1063 W1064 P1065 M1066 A1069 G1070 R1071 T1072 R1073 V1074 L1075 V1076 E1077 L1078 G1079 H1080 Y1081 V1082 Y1083 T1084 L1085 H1086 Y1087 Y1088 D1089 P1090 Q1091 I1092 S1093 L1094 D1095 E1096 A1097 P1098 I1099 L1100 E1101 E1102 W1103 L1104 S1105 K1106
I1107 N1108 P1109 A1110 G1111 I1112 P1113 P1114 V1115 P1116 F1117 C1118 I1119 P1120 I1121 P1122 Q1123 C1127 I1128 T1129 A1130 R1131 R1132 V1133 H1134 Y1135 A1136 F1137 T1138 S1139 E1140 N1141 N1142 N1143 D1144 S1145 L1146 F1147 S1148 T1149 N1150 A1151 A1152 S1153 I1154 D1155 T1156 A1157 F1158 G1159 E1160 N1161 A1162 L1167 R1168 W1169 P1170 G1171
L1172 V1173 D1174 P1175 N1176 Y1177 R1178 V1179 N1182 D1183 L1184 P1185 N1186 T1189 L1190 Y1191 N1192 S1193 L1194 Y1195 R1196 Y1197 N1198 Y1201 P1202 T1203 L1204 D1205 G1206 I1207 M1208 Y1209 V1210 R1211 S1212 A1213 T1214

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	18464	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Each particle	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	25	Depositor
Minimum defocus (nm)	400	Depositor
Maximum defocus (nm)	2700	Depositor
Magnification	57700	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.305	Depositor
Minimum map value	-0.193	Depositor
Average map value	-0.001	Depositor
Map value standard deviation	0.024	Depositor
Recommended contour level	0.05	Depositor
Map size (Å)	814.0, 814.0, 814.0	wwPDB
Map dimensions	740, 740, 740	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1, 1.1, 1.1	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

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	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	B	0.70	1/4601 (0.0%)	1.28	52/6295 (0.8%)
1	C	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	D	0.70	1/4601 (0.0%)	1.30	54/6295 (0.9%)
1	E	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	F	0.70	1/4601 (0.0%)	1.28	52/6295 (0.8%)
1	G	0.89	2/286 (0.7%)	1.38	3/391 (0.8%)
1	H	0.70	1/4601 (0.0%)	1.28	53/6295 (0.8%)
1	I	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	J	0.69	1/4601 (0.0%)	1.28	53/6295 (0.8%)
1	K	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	L	0.70	1/4601 (0.0%)	1.28	52/6295 (0.8%)
1	M	0.89	2/286 (0.7%)	1.38	3/391 (0.8%)
1	N	0.70	1/4601 (0.0%)	1.28	52/6295 (0.8%)
1	O	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	P	0.70	1/4601 (0.0%)	1.28	52/6295 (0.8%)
1	Q	0.90	2/295 (0.7%)	1.53	6/405 (1.5%)
1	R	0.70	1/4601 (0.0%)	1.28	52/6295 (0.8%)
1	S	0.89	2/286 (0.7%)	1.38	3/391 (0.8%)
1	T	0.70	1/4601 (0.0%)	1.28	51/6295 (0.8%)
2	U	0.38	0/3233	0.93	16/4443 (0.4%)
2	V	0.41	0/3233	0.88	5/4443 (0.1%)
3	W	0.38	0/10148	1.00	52/13935 (0.4%)
4	X	0.65	5/8078 (0.1%)	1.16	69/11071 (0.6%)
4	Y	0.45	1/9056 (0.0%)	1.04	52/12412 (0.4%)
All	All	0.63	36/82681 (0.0%)	1.19	768/113262 (0.7%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	B	0	1
1	D	0	1
1	F	0	1
1	H	0	1
1	J	0	1
1	L	0	1
1	N	0	1
1	P	0	1
1	R	0	1
1	T	0	1
4	X	0	3
4	Y	0	2
All	All	0	15

All (36) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	N	227	LEU	N-CA	7.64	1.52	1.45
1	H	227	LEU	N-CA	7.64	1.52	1.45
1	R	227	LEU	N-CA	7.63	1.52	1.45
1	F	227	LEU	N-CA	7.60	1.52	1.45
1	D	227	LEU	N-CA	7.60	1.52	1.45
1	J	227	LEU	N-CA	7.58	1.52	1.45
1	L	227	LEU	N-CA	7.58	1.52	1.45
1	P	227	LEU	N-CA	7.54	1.52	1.45
1	B	227	LEU	N-CA	7.54	1.52	1.45
1	T	227	LEU	N-CA	7.51	1.51	1.45
4	X	969	MET	SD-CE	6.55	1.96	1.79
1	Q	10	THR	N-CA	5.96	1.53	1.46
1	O	10	THR	N-CA	5.96	1.53	1.46
1	K	10	THR	N-CA	5.94	1.53	1.46
1	A	10	THR	N-CA	5.92	1.53	1.46
1	I	10	THR	N-CA	5.91	1.53	1.46
1	C	10	THR	N-CA	5.90	1.53	1.46
1	E	10	THR	N-CA	5.89	1.53	1.46
4	X	231	MET	SD-CE	5.88	1.94	1.79
1	S	10	THR	N-CA	5.86	1.53	1.46
1	M	10	THR	N-CA	5.86	1.53	1.46
1	G	10	THR	N-CA	5.85	1.53	1.46
1	C	9	ASN	CA-C	5.84	1.59	1.52
4	X	717	MET	SD-CE	5.83	1.94	1.79
1	O	9	ASN	CA-C	5.80	1.59	1.52
1	A	9	ASN	CA-C	5.79	1.59	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	I	9	ASN	CA-C	5.79	1.59	1.52
1	Q	9	ASN	CA-C	5.79	1.59	1.52
1	G	9	ASN	CA-C	5.76	1.59	1.52
1	S	9	ASN	CA-C	5.75	1.59	1.52
1	E	9	ASN	CA-C	5.75	1.59	1.52
1	M	9	ASN	CA-C	5.75	1.59	1.52
4	Y	996	MET	SD-CE	-5.74	1.65	1.79
1	K	9	ASN	CA-C	5.71	1.59	1.52
4	X	226	MET	SD-CE	5.54	1.93	1.79
4	X	736	MET	SD-CE	5.14	1.92	1.79

All (768) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	51	VAL	N-CA-C	17.02	126.53	110.53
4	X	526	ALA	N-CA-C	-11.80	98.50	111.36
3	W	63	PRO	N-CA-C	11.78	125.07	110.70
1	F	551	GLN	OE1-CD-NE2	-10.57	112.03	122.60
1	D	551	GLN	OE1-CD-NE2	-10.56	112.04	122.60
1	J	551	GLN	OE1-CD-NE2	-10.56	112.04	122.60
1	L	551	GLN	OE1-CD-NE2	-10.55	112.05	122.60
1	P	551	GLN	OE1-CD-NE2	-10.54	112.06	122.60
1	B	551	GLN	OE1-CD-NE2	-10.52	112.08	122.60
1	R	551	GLN	OE1-CD-NE2	-10.52	112.08	122.60
1	T	551	GLN	OE1-CD-NE2	-10.51	112.09	122.60
1	N	551	GLN	OE1-CD-NE2	-10.48	112.12	122.60
1	H	551	GLN	OE1-CD-NE2	-10.44	112.16	122.60
1	F	493	GLN	OE1-CD-NE2	-10.22	112.38	122.60
1	L	493	GLN	OE1-CD-NE2	-10.19	112.41	122.60
1	H	493	GLN	OE1-CD-NE2	-10.19	112.41	122.60
1	N	160	GLN	OE1-CD-NE2	-10.18	112.42	122.60
1	N	493	GLN	OE1-CD-NE2	-10.18	112.42	122.60
1	R	493	GLN	OE1-CD-NE2	-10.18	112.42	122.60
1	P	493	GLN	OE1-CD-NE2	-10.17	112.43	122.60
1	T	493	GLN	OE1-CD-NE2	-10.16	112.44	122.60
1	H	160	GLN	OE1-CD-NE2	-10.15	112.44	122.60
1	P	160	GLN	OE1-CD-NE2	-10.15	112.44	122.60
1	B	493	GLN	OE1-CD-NE2	-10.13	112.47	122.60
1	J	493	GLN	OE1-CD-NE2	-10.13	112.47	122.60
1	D	160	GLN	OE1-CD-NE2	-10.12	112.48	122.60
1	J	160	GLN	OE1-CD-NE2	-10.12	112.48	122.60
1	R	160	GLN	OE1-CD-NE2	-10.11	112.49	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	160	GLN	OE1-CD-NE2	-10.11	112.49	122.60
1	F	160	GLN	OE1-CD-NE2	-10.09	112.51	122.60
1	L	160	GLN	OE1-CD-NE2	-10.09	112.51	122.60
1	D	493	GLN	OE1-CD-NE2	-10.09	112.51	122.60
1	T	160	GLN	OE1-CD-NE2	-10.09	112.51	122.60
1	B	97	GLN	OE1-CD-NE2	-9.97	112.63	122.60
1	L	97	GLN	OE1-CD-NE2	-9.97	112.63	122.60
1	T	97	GLN	OE1-CD-NE2	-9.97	112.63	122.60
1	N	97	GLN	OE1-CD-NE2	-9.97	112.63	122.60
1	R	97	GLN	OE1-CD-NE2	-9.97	112.63	122.60
1	P	97	GLN	OE1-CD-NE2	-9.96	112.64	122.60
1	D	97	GLN	OE1-CD-NE2	-9.95	112.65	122.60
1	J	97	GLN	OE1-CD-NE2	-9.95	112.65	122.60
1	F	640	GLN	OE1-CD-NE2	-9.95	112.65	122.60
1	L	640	GLN	OE1-CD-NE2	-9.95	112.65	122.60
1	P	640	GLN	OE1-CD-NE2	-9.92	112.68	122.60
1	H	97	GLN	OE1-CD-NE2	-9.91	112.69	122.60
1	F	97	GLN	OE1-CD-NE2	-9.90	112.70	122.60
1	R	640	GLN	OE1-CD-NE2	-9.89	112.71	122.60
1	R	423	GLN	OE1-CD-NE2	-9.88	112.72	122.60
1	B	640	GLN	OE1-CD-NE2	-9.88	112.72	122.60
1	H	423	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	H	640	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	L	423	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	J	554	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	N	554	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	L	554	GLN	OE1-CD-NE2	-9.87	112.73	122.60
1	P	231	GLN	OE1-CD-NE2	-9.86	112.74	122.60
1	T	231	GLN	OE1-CD-NE2	-9.86	112.74	122.60
1	D	554	GLN	OE1-CD-NE2	-9.86	112.74	122.60
1	N	640	GLN	OE1-CD-NE2	-9.86	112.74	122.60
1	J	640	GLN	OE1-CD-NE2	-9.86	112.74	122.60
1	P	554	GLN	OE1-CD-NE2	-9.86	112.75	122.60
1	T	554	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	B	554	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	P	423	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	N	423	GLN	OE1-CD-NE2	-9.85	112.75	122.60
1	B	231	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	K	5	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	T	423	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	B	423	GLN	OE1-CD-NE2	-9.84	112.76	122.60
1	F	423	GLN	OE1-CD-NE2	-9.83	112.77	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	554	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	L	231	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	T	640	GLN	OE1-CD-NE2	-9.83	112.77	122.60
1	D	640	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	F	554	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	E	5	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	F	231	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	J	231	GLN	OE1-CD-NE2	-9.82	112.78	122.60
1	N	231	GLN	OE1-CD-NE2	-9.81	112.78	122.60
1	R	554	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	P	330	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	D	330	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	J	423	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	Q	5	GLN	OE1-CD-NE2	-9.81	112.79	122.60
1	R	231	GLN	OE1-CD-NE2	-9.80	112.80	122.60
1	J	330	GLN	OE1-CD-NE2	-9.80	112.80	122.60
1	R	330	GLN	OE1-CD-NE2	-9.80	112.80	122.60
4	X	635	GLN	OE1-CD-NE2	-9.80	112.80	122.60
1	D	231	GLN	OE1-CD-NE2	-9.79	112.81	122.60
1	H	231	GLN	OE1-CD-NE2	-9.79	112.81	122.60
1	B	330	GLN	OE1-CD-NE2	-9.78	112.82	122.60
1	D	423	GLN	OE1-CD-NE2	-9.78	112.82	122.60
4	X	1109	PRO	N-CA-C	-9.77	102.48	114.20
1	C	5	GLN	OE1-CD-NE2	-9.76	112.84	122.60
1	I	5	GLN	OE1-CD-NE2	-9.75	112.85	122.60
1	O	5	GLN	OE1-CD-NE2	-9.75	112.85	122.60
1	L	330	GLN	OE1-CD-NE2	-9.74	112.86	122.60
1	A	5	GLN	OE1-CD-NE2	-9.74	112.86	122.60
1	F	330	GLN	OE1-CD-NE2	-9.73	112.87	122.60
1	H	330	GLN	OE1-CD-NE2	-9.73	112.87	122.60
1	N	330	GLN	OE1-CD-NE2	-9.71	112.89	122.60
4	X	634	GLN	OE1-CD-NE2	-9.71	112.89	122.60
1	T	330	GLN	OE1-CD-NE2	-9.69	112.91	122.60
4	X	505	THR	N-CA-C	-9.65	101.67	112.57
1	F	414	GLN	OE1-CD-NE2	-9.63	112.97	122.60
1	T	628	GLN	OE1-CD-NE2	-9.63	112.97	122.60
4	X	401	THR	N-CA-C	-9.61	101.49	113.02
1	N	414	GLN	OE1-CD-NE2	-9.60	113.00	122.60
1	N	628	GLN	OE1-CD-NE2	-9.60	113.00	122.60
1	P	414	GLN	OE1-CD-NE2	-9.60	113.00	122.60
1	L	414	GLN	OE1-CD-NE2	-9.59	113.01	122.60
1	B	628	GLN	OE1-CD-NE2	-9.59	113.01	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	H	628	GLN	OE1-CD-NE2	-9.59	113.01	122.60
1	T	414	GLN	OE1-CD-NE2	-9.59	113.01	122.60
1	D	628	GLN	OE1-CD-NE2	-9.59	113.02	122.60
1	P	628	GLN	OE1-CD-NE2	-9.59	113.02	122.60
1	H	414	GLN	OE1-CD-NE2	-9.58	113.02	122.60
1	J	628	GLN	OE1-CD-NE2	-9.57	113.03	122.60
1	R	628	GLN	OE1-CD-NE2	-9.57	113.03	122.60
1	R	414	GLN	OE1-CD-NE2	-9.56	113.04	122.60
1	B	414	GLN	OE1-CD-NE2	-9.55	113.05	122.60
1	D	414	GLN	OE1-CD-NE2	-9.51	113.09	122.60
1	J	414	GLN	OE1-CD-NE2	-9.51	113.09	122.60
1	L	628	GLN	OE1-CD-NE2	-9.50	113.10	122.60
1	F	628	GLN	OE1-CD-NE2	-9.46	113.14	122.60
4	X	302	LEU	N-CA-C	-9.32	101.12	111.28
1	D	93	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	R	93	GLN	OE1-CD-NE2	-9.31	113.29	122.60
1	L	93	GLN	OE1-CD-NE2	-9.30	113.30	122.60
1	J	93	GLN	OE1-CD-NE2	-9.27	113.33	122.60
1	F	93	GLN	OE1-CD-NE2	-9.27	113.33	122.60
1	B	93	GLN	OE1-CD-NE2	-9.27	113.33	122.60
1	H	93	GLN	OE1-CD-NE2	-9.27	113.33	122.60
1	P	93	GLN	OE1-CD-NE2	-9.26	113.34	122.60
1	N	93	GLN	OE1-CD-NE2	-9.25	113.35	122.60
1	T	93	GLN	OE1-CD-NE2	-9.23	113.37	122.60
1	H	206	GLU	N-CA-C	-9.17	103.20	114.75
1	L	206	GLU	N-CA-C	-9.15	103.22	114.75
1	F	206	GLU	N-CA-C	-9.14	103.23	114.75
1	N	206	GLU	N-CA-C	-9.14	103.24	114.75
1	T	206	GLU	N-CA-C	-9.13	103.24	114.75
1	P	206	GLU	N-CA-C	-9.13	103.25	114.75
1	R	206	GLU	N-CA-C	-9.13	103.25	114.75
1	B	206	GLU	N-CA-C	-9.12	103.27	114.75
1	J	206	GLU	N-CA-C	-9.10	103.29	114.75
1	D	206	GLU	N-CA-C	-9.09	103.30	114.75
4	Y	1041	ILE	N-CA-C	8.73	118.81	110.42
4	X	616	SER	N-CA-C	8.57	121.76	111.82
3	W	62	TYR	CA-C-N	8.30	128.93	120.38
3	W	62	TYR	C-N-CA	8.30	128.93	120.38
2	U	171	THR	N-CA-C	-8.04	103.61	113.50
4	X	793	ARG	N-CA-C	-7.92	97.69	110.20
4	Y	1186	ASN	N-CA-C	7.72	122.77	113.12
4	Y	1102	GLU	N-CA-C	-7.71	102.00	111.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	332	GLY	CA-C-N	7.55	129.28	119.84
1	F	332	GLY	C-N-CA	7.55	129.28	119.84
1	L	332	GLY	CA-C-N	7.54	129.27	119.84
1	L	332	GLY	C-N-CA	7.54	129.27	119.84
1	D	332	GLY	CA-C-N	7.54	129.27	119.84
1	D	332	GLY	C-N-CA	7.54	129.27	119.84
4	X	649	ASN	N-CA-C	7.54	122.21	112.41
1	P	332	GLY	CA-C-N	7.53	129.25	119.84
1	P	332	GLY	C-N-CA	7.53	129.25	119.84
1	B	332	GLY	CA-C-N	7.51	129.23	119.84
1	B	332	GLY	C-N-CA	7.51	129.23	119.84
1	R	332	GLY	CA-C-N	7.51	129.22	119.84
1	R	332	GLY	C-N-CA	7.51	129.22	119.84
1	J	332	GLY	CA-C-N	7.50	129.22	119.84
1	J	332	GLY	C-N-CA	7.50	129.22	119.84
1	T	332	GLY	CA-C-N	7.50	129.21	119.84
1	T	332	GLY	C-N-CA	7.50	129.21	119.84
4	X	768	GLN	N-CA-C	7.50	121.76	110.14
1	H	332	GLY	CA-C-N	7.49	129.21	119.84
1	H	332	GLY	C-N-CA	7.49	129.21	119.84
1	N	332	GLY	CA-C-N	7.47	129.18	119.84
1	N	332	GLY	C-N-CA	7.47	129.18	119.84
4	Y	119	CYS	N-CA-C	-7.45	97.91	109.76
4	X	445	PHE	N-CA-C	7.45	121.58	109.59
4	Y	669	PHE	N-CA-C	7.32	119.04	111.14
2	U	380	ALA	N-CA-C	-7.30	104.25	113.01
1	T	554	GLN	CG-CD-NE2	7.25	127.28	116.40
1	H	554	GLN	CG-CD-NE2	7.25	127.27	116.40
1	N	554	GLN	CG-CD-NE2	7.25	127.27	116.40
1	B	554	GLN	CG-CD-NE2	7.23	127.25	116.40
1	P	554	GLN	CG-CD-NE2	7.22	127.23	116.40
1	J	554	GLN	CG-CD-NE2	7.21	127.22	116.40
1	D	554	GLN	CG-CD-NE2	7.21	127.21	116.40
1	L	554	GLN	CG-CD-NE2	7.20	127.20	116.40
4	X	456	VAL	N-CA-C	-7.20	103.45	110.72
1	F	554	GLN	CG-CD-NE2	7.19	127.18	116.40
1	R	554	GLN	CG-CD-NE2	7.19	127.18	116.40
4	Y	1002	PRO	N-CA-CB	7.16	110.02	103.08
4	X	681	ASN	N-CA-C	7.11	121.03	109.59
4	X	958	HIS	N-CA-C	-7.08	103.60	113.37
4	X	427	LEU	N-CA-C	-7.07	100.53	110.50
4	X	849	ALA	N-CA-C	-7.06	103.34	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	551	GLN	CG-CD-NE2	7.06	126.98	116.40
4	X	1172	LEU	N-CA-C	7.04	119.98	111.82
1	L	640	GLN	CG-CD-NE2	7.04	126.96	116.40
1	R	640	GLN	CG-CD-NE2	7.03	126.95	116.40
1	L	551	GLN	CG-CD-NE2	7.03	126.95	116.40
4	X	1041	ILE	N-CA-C	7.03	118.63	110.62
4	Y	530	LYS	N-CA-C	-7.03	104.63	112.57
1	J	551	GLN	CG-CD-NE2	7.02	126.92	116.40
1	P	640	GLN	CG-CD-NE2	7.02	126.93	116.40
1	N	640	GLN	CG-CD-NE2	7.02	126.92	116.40
1	T	551	GLN	CG-CD-NE2	7.02	126.92	116.40
1	T	640	GLN	CG-CD-NE2	7.02	126.92	116.40
1	B	551	GLN	CG-CD-NE2	7.01	126.92	116.40
1	F	640	GLN	CG-CD-NE2	7.01	126.92	116.40
1	B	640	GLN	CG-CD-NE2	7.01	126.92	116.40
1	H	551	GLN	CG-CD-NE2	7.01	126.91	116.40
4	Y	533	ALA	N-CA-C	-7.01	104.60	113.01
1	D	551	GLN	CG-CD-NE2	7.01	126.91	116.40
1	H	640	GLN	CG-CD-NE2	7.00	126.90	116.40
1	N	551	GLN	CG-CD-NE2	7.00	126.90	116.40
1	J	640	GLN	CG-CD-NE2	7.00	126.90	116.40
4	Y	1035	GLY	N-CA-C	-7.00	106.64	115.31
3	W	540	GLY	N-CA-C	-7.00	105.23	115.30
1	P	551	GLN	CG-CD-NE2	6.99	126.89	116.40
1	D	640	GLN	CG-CD-NE2	6.99	126.89	116.40
1	R	551	GLN	CG-CD-NE2	6.99	126.88	116.40
4	X	709	ILE	N-CA-C	-6.93	102.84	113.16
1	P	207	PHE	N-CA-C	-6.86	104.55	113.12
1	L	207	PHE	N-CA-C	-6.86	104.55	113.12
1	F	207	PHE	N-CA-C	-6.85	104.55	113.12
1	J	207	PHE	N-CA-C	-6.85	104.56	113.12
4	X	777	ASN	N-CA-C	6.85	119.76	111.82
3	W	1001	ILE	N-CA-C	-6.84	106.21	111.62
1	N	207	PHE	N-CA-C	-6.84	104.57	113.12
1	N	231	GLN	CG-CD-NE2	6.83	126.65	116.40
1	R	207	PHE	N-CA-C	-6.83	104.58	113.12
1	H	231	GLN	CG-CD-NE2	6.83	126.65	116.40
1	B	207	PHE	N-CA-C	-6.83	104.58	113.12
1	H	207	PHE	N-CA-C	-6.83	104.59	113.12
1	R	231	GLN	CG-CD-NE2	6.82	126.63	116.40
1	D	231	GLN	CG-CD-NE2	6.82	126.63	116.40
1	D	207	PHE	N-CA-C	-6.81	104.60	113.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	160	GLN	CG-CD-NE2	6.81	126.62	116.40
1	L	231	GLN	CG-CD-NE2	6.81	126.62	116.40
1	B	231	GLN	CG-CD-NE2	6.81	126.61	116.40
1	P	231	GLN	CG-CD-NE2	6.81	126.61	116.40
1	J	231	GLN	CG-CD-NE2	6.81	126.61	116.40
1	H	160	GLN	CG-CD-NE2	6.80	126.60	116.40
1	T	231	GLN	CG-CD-NE2	6.80	126.60	116.40
4	Y	475	ALA	N-CA-C	-6.80	103.87	111.28
1	F	231	GLN	CG-CD-NE2	6.80	126.60	116.40
1	R	160	GLN	CG-CD-NE2	6.78	126.58	116.40
1	T	160	GLN	CG-CD-NE2	6.78	126.58	116.40
1	D	160	GLN	CG-CD-NE2	6.78	126.57	116.40
1	T	207	PHE	N-CA-C	-6.77	104.65	113.12
1	J	160	GLN	CG-CD-NE2	6.77	126.55	116.40
1	B	160	GLN	CG-CD-NE2	6.76	126.54	116.40
1	R	97	GLN	CG-CD-NE2	6.76	126.54	116.40
4	X	214	HIS	N-CA-C	-6.75	99.67	109.59
1	L	97	GLN	CG-CD-NE2	6.75	126.52	116.40
1	N	97	GLN	CG-CD-NE2	6.75	126.52	116.40
1	P	160	GLN	CG-CD-NE2	6.75	126.52	116.40
1	F	160	GLN	CG-CD-NE2	6.75	126.52	116.40
1	L	160	GLN	CG-CD-NE2	6.74	126.52	116.40
1	D	498	VAL	CB-CA-C	-6.74	105.98	111.71
1	T	97	GLN	CG-CD-NE2	6.74	126.50	116.40
1	B	97	GLN	CG-CD-NE2	6.73	126.50	116.40
4	X	955	SER	N-CA-C	6.73	120.44	110.48
1	J	97	GLN	CG-CD-NE2	6.73	126.49	116.40
1	T	423	GLN	CG-CD-NE2	6.73	126.49	116.40
1	F	97	GLN	CG-CD-NE2	6.72	126.48	116.40
4	X	403	ILE	N-CA-C	-6.72	103.76	110.62
1	N	423	GLN	CG-CD-NE2	6.71	126.47	116.40
1	P	97	GLN	CG-CD-NE2	6.71	126.47	116.40
1	R	423	GLN	CG-CD-NE2	6.71	126.47	116.40
1	H	97	GLN	CG-CD-NE2	6.71	126.47	116.40
1	D	97	GLN	CG-CD-NE2	6.71	126.46	116.40
1	H	498	VAL	CB-CA-C	-6.71	106.01	111.71
1	H	423	GLN	CG-CD-NE2	6.70	126.46	116.40
1	P	423	GLN	CG-CD-NE2	6.70	126.45	116.40
1	N	498	VAL	CB-CA-C	-6.70	106.02	111.71
1	B	423	GLN	CG-CD-NE2	6.69	126.44	116.40
1	L	423	GLN	CG-CD-NE2	6.69	126.44	116.40
1	J	498	VAL	CB-CA-C	-6.69	106.03	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	P	498	VAL	CB-CA-C	-6.69	106.03	111.71
1	F	423	GLN	CG-CD-NE2	6.67	126.41	116.40
4	X	635	GLN	CG-CD-NE2	6.67	126.41	116.40
1	J	330	GLN	CG-CD-NE2	6.67	126.41	116.40
1	T	498	VAL	CB-CA-C	-6.67	106.04	111.71
1	D	423	GLN	CG-CD-NE2	6.67	126.40	116.40
1	P	330	GLN	CG-CD-NE2	6.67	126.40	116.40
1	J	423	GLN	CG-CD-NE2	6.67	126.40	116.40
1	R	498	VAL	CB-CA-C	-6.66	106.05	111.71
1	B	330	GLN	CG-CD-NE2	6.66	126.38	116.40
1	B	498	VAL	CB-CA-C	-6.65	106.06	111.71
1	D	330	GLN	CG-CD-NE2	6.65	126.37	116.40
1	R	330	GLN	CG-CD-NE2	6.64	126.36	116.40
1	I	5	GLN	CG-CD-NE2	6.64	126.36	116.40
1	H	330	GLN	CG-CD-NE2	6.64	126.36	116.40
1	L	493	GLN	CG-CD-NE2	6.64	126.36	116.40
1	L	498	VAL	CB-CA-C	-6.64	106.07	111.71
4	Y	532	ILE	N-CA-C	-6.64	104.55	111.58
1	F	493	GLN	CG-CD-NE2	6.63	126.35	116.40
1	T	330	GLN	CG-CD-NE2	6.63	126.34	116.40
1	P	493	GLN	CG-CD-NE2	6.62	126.34	116.40
1	K	5	GLN	CG-CD-NE2	6.62	126.33	116.40
1	A	5	GLN	CG-CD-NE2	6.62	126.33	116.40
1	C	5	GLN	CG-CD-NE2	6.62	126.33	116.40
1	R	493	GLN	CG-CD-NE2	6.62	126.33	116.40
3	W	404	TYR	N-CA-C	6.62	119.49	110.55
1	F	498	VAL	CB-CA-C	-6.62	106.08	111.71
1	O	5	GLN	CG-CD-NE2	6.62	126.33	116.40
1	N	330	GLN	CG-CD-NE2	6.62	126.33	116.40
1	E	5	GLN	CG-CD-NE2	6.62	126.32	116.40
1	F	330	GLN	CG-CD-NE2	6.61	126.32	116.40
1	L	330	GLN	CG-CD-NE2	6.61	126.31	116.40
1	J	493	GLN	CG-CD-NE2	6.60	126.30	116.40
1	T	493	GLN	CG-CD-NE2	6.60	126.30	116.40
1	B	493	GLN	CG-CD-NE2	6.60	126.30	116.40
1	H	493	GLN	CG-CD-NE2	6.60	126.30	116.40
1	N	493	GLN	CG-CD-NE2	6.60	126.30	116.40
1	Q	5	GLN	CG-CD-NE2	6.60	126.30	116.40
4	X	634	GLN	CG-CD-NE2	6.59	126.28	116.40
1	D	493	GLN	CG-CD-NE2	6.58	126.27	116.40
4	Y	540	LEU	N-CA-C	-6.56	105.85	114.31
3	W	133	ILE	N-CA-C	6.55	117.30	110.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	414	GLN	CG-CD-NE2	6.54	126.21	116.40
1	P	414	GLN	CG-CD-NE2	6.53	126.19	116.40
4	X	630	LEU	N-CA-C	6.53	118.05	111.07
1	L	414	GLN	CG-CD-NE2	6.51	126.17	116.40
1	T	414	GLN	CG-CD-NE2	6.48	126.12	116.40
1	H	414	GLN	CG-CD-NE2	6.48	126.12	116.40
3	W	1040	VAL	CA-C-N	-6.48	113.17	121.91
3	W	1040	VAL	C-N-CA	-6.48	113.17	121.91
1	N	414	GLN	CG-CD-NE2	6.48	126.11	116.40
1	B	414	GLN	CG-CD-NE2	6.47	126.11	116.40
1	R	414	GLN	CG-CD-NE2	6.47	126.11	116.40
1	D	414	GLN	CG-CD-NE2	6.47	126.10	116.40
2	U	186	ALA	N-CA-C	-6.47	104.27	111.71
1	J	414	GLN	CG-CD-NE2	6.46	126.09	116.40
3	W	626	ALA	N-CA-C	-6.45	105.95	113.88
1	D	93	GLN	CG-CD-NE2	6.44	126.06	116.40
1	O	25	ASP	N-CA-C	6.44	119.29	111.82
3	W	607	LEU	N-CA-C	-6.42	105.74	112.93
4	X	437	ARG	CA-C-N	6.42	127.86	119.84
4	X	437	ARG	C-N-CA	6.42	127.86	119.84
1	A	25	ASP	N-CA-C	6.41	119.26	111.82
1	S	25	ASP	N-CA-C	6.41	119.26	111.82
1	J	93	GLN	CG-CD-NE2	6.41	126.01	116.40
1	J	628	GLN	CG-CD-NE2	6.41	126.01	116.40
1	T	203	TYR	CA-C-N	6.40	127.84	119.84
1	T	203	TYR	C-N-CA	6.40	127.84	119.84
1	T	628	GLN	CG-CD-NE2	6.40	126.00	116.40
1	T	93	GLN	CG-CD-NE2	6.40	126.00	116.40
4	X	966	SER	N-CA-C	-6.40	104.23	111.14
1	H	93	GLN	CG-CD-NE2	6.40	126.00	116.40
1	M	25	ASP	N-CA-C	6.40	119.24	111.82
1	N	203	TYR	CA-C-N	6.40	127.84	119.84
1	N	203	TYR	C-N-CA	6.40	127.84	119.84
1	B	628	GLN	CG-CD-NE2	6.39	125.99	116.40
1	R	203	TYR	CA-C-N	6.39	127.83	119.84
1	R	203	TYR	C-N-CA	6.39	127.83	119.84
1	D	628	GLN	CG-CD-NE2	6.39	125.99	116.40
1	E	25	ASP	N-CA-C	6.39	119.23	111.82
4	Y	260	GLU	N-CA-C	6.39	116.89	108.07
1	L	93	GLN	CG-CD-NE2	6.39	125.99	116.40
1	P	628	GLN	CG-CD-NE2	6.39	125.99	116.40
1	H	628	GLN	CG-CD-NE2	6.39	125.98	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	93	GLN	CG-CD-NE2	6.39	125.98	116.40
1	G	25	ASP	N-CA-C	6.39	119.23	111.82
1	F	93	GLN	CG-CD-NE2	6.39	125.98	116.40
1	I	25	ASP	N-CA-C	6.39	119.23	111.82
1	F	203	TYR	CA-C-N	6.38	127.82	119.84
1	F	203	TYR	C-N-CA	6.38	127.82	119.84
1	N	93	GLN	CG-CD-NE2	6.38	125.98	116.40
1	C	25	ASP	N-CA-C	6.38	119.22	111.82
1	L	203	TYR	CA-C-N	6.38	127.81	119.84
1	L	203	TYR	C-N-CA	6.38	127.81	119.84
1	N	628	GLN	CG-CD-NE2	6.38	125.96	116.40
1	P	93	GLN	CG-CD-NE2	6.38	125.97	116.40
1	R	93	GLN	CG-CD-NE2	6.38	125.96	116.40
1	B	203	TYR	CA-C-N	6.37	127.81	119.84
1	B	203	TYR	C-N-CA	6.37	127.81	119.84
1	D	203	TYR	CA-C-N	6.37	127.81	119.84
1	D	203	TYR	C-N-CA	6.37	127.81	119.84
1	K	25	ASP	N-CA-C	6.37	119.21	111.82
1	R	628	GLN	CG-CD-NE2	6.37	125.95	116.40
1	J	203	TYR	CA-C-N	6.37	127.80	119.84
1	J	203	TYR	C-N-CA	6.37	127.80	119.84
1	H	203	TYR	CA-C-N	6.36	127.79	119.84
1	H	203	TYR	C-N-CA	6.36	127.79	119.84
1	Q	25	ASP	N-CA-C	6.36	119.19	111.82
4	Y	1003	PRO	N-CA-CB	6.36	109.93	103.25
4	Y	1158	PHE	N-CA-C	6.35	124.33	110.80
4	X	429	ASN	N-CA-C	6.35	118.29	109.15
1	L	628	GLN	CG-CD-NE2	6.32	125.88	116.40
1	P	203	TYR	CA-C-N	6.32	127.73	119.84
1	P	203	TYR	C-N-CA	6.32	127.73	119.84
2	U	148	TRP	N-CA-C	-6.30	106.14	113.88
1	F	628	GLN	CG-CD-NE2	6.29	125.84	116.40
4	X	372	ASP	N-CA-C	6.29	119.65	107.71
4	Y	852	THR	N-CA-C	-6.28	104.44	111.28
4	Y	121	VAL	N-CA-C	-6.25	104.54	110.42
4	Y	668	LEU	N-CA-C	6.23	120.70	111.04
3	W	664	SER	N-CA-C	6.23	118.86	111.33
3	W	829	ALA	CB-CA-C	-6.16	109.48	116.63
3	W	197	HIS	N-CA-C	-6.12	105.08	112.54
3	W	686	ALA	N-CA-C	-6.10	104.19	111.69
4	X	402	TYR	N-CA-C	-6.09	105.88	113.55
3	W	10	VAL	CA-C-N	6.05	127.41	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	W	10	VAL	C-N-CA	6.05	127.41	119.84
2	V	158	HIS	N-CA-C	6.03	118.10	107.61
4	X	329	MET	N-CA-C	6.01	119.37	112.57
1	Q	17	GLY	N-CA-C	6.00	122.24	113.48
1	E	17	GLY	N-CA-C	5.99	122.23	113.48
1	M	17	GLY	N-CA-C	5.99	122.22	113.48
1	A	17	GLY	N-CA-C	5.98	122.22	113.48
2	U	166	MET	CA-C-N	5.98	127.32	119.84
2	U	166	MET	C-N-CA	5.98	127.32	119.84
1	K	17	GLY	N-CA-C	5.98	122.21	113.48
1	C	17	GLY	N-CA-C	5.97	122.19	113.48
1	G	17	GLY	N-CA-C	5.97	122.19	113.48
1	I	17	GLY	N-CA-C	5.96	122.18	113.48
1	O	17	GLY	N-CA-C	5.96	122.18	113.48
1	S	17	GLY	N-CA-C	5.96	122.18	113.48
3	W	1134	VAL	N-CA-C	5.95	117.47	107.18
4	Y	953	GLY	CA-C-N	5.94	127.27	119.84
4	Y	953	GLY	C-N-CA	5.94	127.27	119.84
4	X	558	THR	N-CA-C	-5.93	105.54	112.89
4	X	597	GLU	N-CA-C	5.92	120.18	108.59
1	P	142	ILE	N-CA-C	-5.91	105.26	112.76
1	N	142	ILE	N-CA-C	-5.90	105.27	112.76
1	B	142	ILE	N-CA-C	-5.89	105.28	112.76
1	T	142	ILE	N-CA-C	-5.89	105.28	112.76
4	X	1193	SER	N-CA-C	-5.89	101.29	110.42
1	D	142	ILE	N-CA-C	-5.89	105.28	112.76
1	L	142	ILE	N-CA-C	-5.89	105.28	112.76
4	X	387	CYS	N-CA-C	5.89	118.06	108.76
1	J	142	ILE	N-CA-C	-5.88	105.29	112.76
4	Y	1069	ALA	N-CA-C	-5.88	100.41	109.76
1	H	142	ILE	N-CA-C	-5.88	105.30	112.76
4	X	287	GLN	N-CA-C	5.87	119.46	110.36
1	H	69	GLY	N-CA-C	-5.87	104.48	112.52
4	Y	46	ALA	N-CA-C	-5.87	104.07	111.11
4	Y	113	ASN	CA-C-N	5.87	125.54	119.56
4	Y	113	ASN	C-N-CA	5.87	125.54	119.56
1	F	471	LEU	N-CA-C	5.86	118.15	111.11
1	R	142	ILE	N-CA-C	-5.86	105.32	112.76
3	W	629	THR	N-CA-C	-5.85	105.80	113.12
1	F	142	ILE	N-CA-C	-5.84	105.34	112.76
1	L	471	LEU	N-CA-C	5.84	118.12	111.11
3	W	495	ASP	N-CA-C	-5.84	104.92	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	69	GLY	N-CA-C	-5.84	104.52	112.52
1	R	471	LEU	N-CA-C	5.83	118.10	111.11
4	Y	445	PHE	N-CA-C	5.83	118.45	109.07
1	R	69	GLY	N-CA-C	-5.82	104.55	112.52
4	Y	1008	GLY	CA-C-N	5.81	126.00	119.90
4	Y	1008	GLY	C-N-CA	5.81	126.00	119.90
1	B	69	GLY	N-CA-C	-5.81	104.56	112.52
1	F	297	ALA	N-CA-C	-5.81	106.58	113.38
1	L	69	GLY	N-CA-C	-5.81	104.56	112.52
3	W	817	SER	N-CA-C	-5.81	106.32	113.41
1	L	297	ALA	N-CA-C	-5.80	106.59	113.38
1	T	69	GLY	N-CA-C	-5.80	104.58	112.52
1	T	471	LEU	N-CA-C	5.79	118.06	111.11
4	Y	768	GLN	N-CA-C	5.79	117.69	107.61
1	J	69	GLY	N-CA-C	-5.79	104.58	112.52
3	W	838	PRO	N-CA-C	-5.79	105.83	113.65
1	T	297	ALA	N-CA-C	-5.79	106.61	113.38
1	F	69	GLY	N-CA-C	-5.79	104.59	112.52
1	N	471	LEU	N-CA-C	5.79	118.06	111.11
1	R	297	ALA	N-CA-C	-5.79	106.61	113.38
1	B	471	LEU	N-CA-C	5.78	118.05	111.11
1	J	471	LEU	N-CA-C	5.77	118.04	111.11
1	P	69	GLY	N-CA-C	-5.77	104.61	112.52
4	X	569	LEU	N-CA-C	-5.77	104.36	111.40
1	D	471	LEU	N-CA-C	5.77	118.03	111.11
1	H	471	LEU	N-CA-C	5.76	118.03	111.11
1	P	471	LEU	N-CA-C	5.76	118.03	111.11
1	B	297	ALA	N-CA-C	-5.76	106.64	113.38
1	D	297	ALA	N-CA-C	-5.75	106.65	113.38
4	X	856	ARG	N-CA-C	-5.75	104.39	111.75
3	W	5	PHE	CB-CA-C	-5.75	109.96	116.63
1	P	635	GLN	N-CA-C	-5.75	105.10	111.36
1	J	297	ALA	N-CA-C	-5.74	106.66	113.38
1	P	297	ALA	N-CA-C	-5.74	106.67	113.38
1	L	635	GLN	N-CA-C	-5.74	105.11	111.36
1	R	635	GLN	N-CA-C	-5.73	105.11	111.36
1	F	635	GLN	N-CA-C	-5.73	105.12	111.36
1	N	297	ALA	N-CA-C	-5.73	106.68	113.38
1	H	297	ALA	N-CA-C	-5.72	106.68	113.38
3	W	336	PHE	N-CA-C	-5.72	105.97	113.12
4	Y	1184	LEU	N-CA-C	5.72	122.46	109.81
3	W	236	GLY	N-CA-C	-5.72	100.67	112.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	635	GLN	N-CA-C	-5.71	105.14	111.36
2	U	230	ASN	N-CA-C	-5.71	106.32	113.28
1	J	635	GLN	N-CA-C	-5.70	105.14	111.36
4	Y	193	LEU	N-CA-C	5.70	119.85	113.01
1	H	173	ASP	N-CA-C	5.67	118.12	108.02
4	X	362	THR	N-CA-C	5.67	117.14	111.07
1	D	635	GLN	N-CA-C	-5.67	105.18	111.36
2	V	393	ASP	N-CA-C	5.67	113.43	108.78
4	X	650	TRP	CA-C-N	5.67	126.93	119.84
4	X	650	TRP	C-N-CA	5.67	126.93	119.84
1	N	173	ASP	N-CA-C	5.67	118.10	108.02
1	R	173	ASP	N-CA-C	5.66	118.09	108.02
4	X	1082	VAL	N-CA-C	-5.66	100.18	109.12
1	T	387	THR	N-CA-C	5.65	118.28	109.52
4	X	578	ASP	CA-C-N	5.65	126.90	119.84
4	X	578	ASP	C-N-CA	5.65	126.90	119.84
4	X	949	HIS	N-CA-C	5.65	117.95	108.23
1	T	635	GLN	N-CA-C	-5.65	105.21	111.36
1	H	635	GLN	N-CA-C	-5.64	105.21	111.36
1	L	173	ASP	N-CA-C	5.64	118.06	108.02
4	Y	474	GLU	N-CA-C	-5.64	106.53	113.41
2	V	154	GLY	CA-C-N	5.64	126.52	119.98
2	V	154	GLY	C-N-CA	5.64	126.52	119.98
4	Y	403	ILE	N-CA-C	-5.64	104.87	110.62
1	P	387	THR	N-CA-C	5.64	118.26	109.52
1	B	173	ASP	N-CA-C	5.64	118.05	108.02
1	J	387	THR	N-CA-C	5.64	118.26	109.52
1	T	173	ASP	N-CA-C	5.63	118.05	108.02
1	N	635	GLN	N-CA-C	-5.63	105.22	111.36
1	P	173	ASP	N-CA-C	5.63	118.03	108.02
4	X	243	ILE	CB-CA-C	-5.63	105.47	112.45
1	B	387	THR	N-CA-C	5.62	118.24	109.52
1	F	173	ASP	N-CA-C	5.62	118.03	108.02
4	X	395	THR	N-CA-C	-5.62	105.06	111.07
1	D	173	ASP	N-CA-C	5.62	118.02	108.02
3	W	1019	TYR	N-CA-C	-5.62	105.54	112.90
1	N	387	THR	N-CA-C	5.62	118.23	109.52
4	X	1083	TYR	N-CA-C	5.62	118.02	108.02
1	J	173	ASP	N-CA-C	5.61	118.01	108.02
1	R	387	THR	N-CA-C	5.61	118.22	109.52
1	H	387	THR	N-CA-C	5.61	118.22	109.52
1	D	598	SER	N-CA-C	-5.61	105.17	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	387	THR	N-CA-C	5.60	118.20	109.52
3	W	85	THR	N-CA-C	-5.59	105.18	111.28
2	U	154	GLY	CA-C-N	5.59	125.59	119.89
2	U	154	GLY	C-N-CA	5.59	125.59	119.89
1	F	387	THR	N-CA-C	5.58	118.17	109.52
4	Y	1174	ASP	CA-C-N	5.58	125.67	119.87
4	Y	1174	ASP	C-N-CA	5.58	125.67	119.87
3	W	740	VAL	CA-C-N	-5.58	112.87	119.84
3	W	740	VAL	C-N-CA	-5.58	112.87	119.84
1	L	387	THR	N-CA-C	5.58	118.16	109.52
1	F	233	HIS	CA-CB-CG	-5.57	108.23	113.80
3	W	384	THR	N-CA-C	-5.57	101.67	109.69
4	Y	929	PRO	N-CA-C	-5.57	106.90	113.86
1	R	598	SER	N-CA-C	-5.56	105.22	111.28
1	J	598	SER	N-CA-C	-5.55	105.23	111.28
1	L	233	HIS	CA-CB-CG	-5.55	108.25	113.80
1	L	598	SER	N-CA-C	-5.55	105.23	111.28
1	R	119	VAL	N-CA-C	5.55	116.10	107.28
3	W	775	ARG	N-CA-C	-5.54	106.64	113.41
4	Y	1006	ARG	N-CA-C	5.54	117.02	110.97
1	R	233	HIS	CA-CB-CG	-5.54	108.26	113.80
1	T	233	HIS	CA-CB-CG	-5.53	108.27	113.80
1	N	119	VAL	N-CA-C	5.53	116.07	107.28
1	T	598	SER	N-CA-C	-5.52	105.26	111.28
1	B	598	SER	N-CA-C	-5.51	105.27	111.28
1	H	233	HIS	CA-CB-CG	-5.51	108.29	113.80
1	J	119	VAL	N-CA-C	5.51	116.05	107.28
4	X	385	VAL	N-CA-C	-5.51	101.79	109.45
1	N	233	HIS	CA-CB-CG	-5.51	108.29	113.80
1	B	233	HIS	CA-CB-CG	-5.51	108.29	113.80
1	F	598	SER	N-CA-C	-5.50	105.28	111.28
1	H	598	SER	N-CA-C	-5.50	105.28	111.28
1	H	119	VAL	N-CA-C	5.50	116.03	107.28
2	V	60	SER	N-CA-C	5.50	115.81	108.38
1	D	119	VAL	N-CA-C	5.50	116.02	107.28
1	B	119	VAL	N-CA-C	5.50	116.02	107.28
1	D	57	THR	N-CA-C	-5.50	101.21	109.95
1	F	119	VAL	N-CA-C	5.50	116.02	107.28
1	L	119	VAL	N-CA-C	5.49	116.01	107.28
1	N	598	SER	N-CA-C	-5.49	105.29	111.28
1	P	233	HIS	CA-CB-CG	-5.49	108.31	113.80
2	U	257	ALA	CA-C-N	5.49	123.67	119.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	U	257	ALA	C-N-CA	5.49	123.67	119.66
1	T	119	VAL	N-CA-C	5.49	116.01	107.28
4	X	1034	ASP	N-CA-C	5.49	116.95	110.97
1	P	119	VAL	N-CA-C	5.48	115.99	107.28
1	D	233	HIS	CA-CB-CG	-5.48	108.32	113.80
1	J	233	HIS	CA-CB-CG	-5.47	108.33	113.80
1	P	598	SER	N-CA-C	-5.47	105.31	111.28
3	W	1143	GLN	N-CA-C	-5.47	105.20	113.51
4	X	629	GLN	N-CA-C	-5.47	104.72	111.33
2	U	180	VAL	CA-C-N	5.45	125.92	120.14
2	U	180	VAL	C-N-CA	5.45	125.92	120.14
3	W	1139	PRO	CA-C-N	5.45	123.58	119.66
3	W	1139	PRO	C-N-CA	5.45	123.58	119.66
1	T	342	ASN	N-CA-C	-5.44	103.35	110.53
1	F	342	ASN	N-CA-C	-5.43	103.36	110.53
4	Y	453	LEU	N-CA-C	-5.43	106.61	113.18
1	R	342	ASN	N-CA-C	-5.42	103.37	110.53
1	L	342	ASN	N-CA-C	-5.42	103.38	110.53
4	X	1173	VAL	N-CA-C	5.42	118.40	113.20
1	B	342	ASN	N-CA-C	-5.41	103.39	110.53
1	D	210	VAL	N-CA-C	-5.41	105.45	110.53
1	D	342	ASN	N-CA-C	-5.40	103.40	110.53
3	W	244	THR	N-CA-C	5.40	117.25	111.36
1	N	342	ASN	N-CA-C	-5.39	103.41	110.53
1	P	342	ASN	N-CA-C	-5.39	103.41	110.53
1	J	342	ASN	N-CA-C	-5.39	103.42	110.53
4	X	472	LEU	N-CA-C	-5.38	107.37	114.04
1	C	29	THR	N-CA-C	5.38	117.14	108.32
1	H	342	ASN	N-CA-C	-5.37	103.45	110.53
1	O	29	THR	N-CA-C	5.36	117.11	108.32
1	D	54	SER	CB-CA-C	-5.36	110.41	116.63
1	J	210	VAL	N-CA-C	-5.36	105.49	110.53
4	Y	163	ALA	N-CA-C	5.36	116.80	111.07
1	I	29	THR	N-CA-C	5.36	117.10	108.32
1	A	29	THR	N-CA-C	5.35	117.10	108.32
1	L	210	VAL	N-CA-C	-5.35	105.50	110.53
4	X	956	HIS	N-CA-C	5.35	119.65	113.18
1	B	210	VAL	N-CA-C	-5.34	105.50	110.53
1	Q	29	THR	N-CA-C	5.34	117.08	108.32
1	K	29	THR	N-CA-C	5.33	117.07	108.32
1	E	29	THR	N-CA-C	5.33	117.07	108.32
1	P	210	VAL	N-CA-C	-5.33	105.52	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	164	ASP	N-CA-C	5.33	116.95	111.03
4	Y	17	ALA	N-CA-C	-5.33	105.42	112.24
4	Y	901	ILE	N-CA-C	-5.33	104.58	112.04
1	R	210	VAL	N-CA-C	-5.32	105.53	110.53
1	T	210	VAL	N-CA-C	-5.32	105.53	110.53
3	W	801	SER	N-CA-C	-5.31	103.02	110.35
4	X	968	PHE	N-CA-C	-5.31	105.18	110.97
1	H	210	VAL	N-CA-C	-5.30	105.54	110.53
3	W	695	ILE	CA-C-N	5.30	125.21	119.85
3	W	695	ILE	C-N-CA	5.30	125.21	119.85
1	F	210	VAL	N-CA-C	-5.30	105.55	110.53
1	J	164	ASP	N-CA-C	5.30	116.91	111.03
4	Y	807	PHE	N-CA-C	5.30	117.80	111.71
2	U	84	ILE	N-CA-C	5.29	116.77	111.00
1	N	210	VAL	N-CA-C	-5.29	105.56	110.53
4	X	772	THR	N-CA-C	5.29	117.83	107.57
4	X	610	THR	CA-C-N	5.29	126.45	119.84
4	X	610	THR	C-N-CA	5.29	126.45	119.84
1	L	164	ASP	N-CA-C	5.28	116.89	111.03
4	Y	1047	TYR	CA-C-N	-5.27	113.87	119.98
4	Y	1047	TYR	C-N-CA	-5.27	113.87	119.98
1	B	164	ASP	N-CA-C	5.26	116.87	111.03
1	F	164	ASP	N-CA-C	5.26	116.87	111.03
4	X	1184	LEU	CA-C-N	-5.26	113.26	119.84
4	X	1184	LEU	C-N-CA	-5.26	113.26	119.84
1	R	164	ASP	N-CA-C	5.25	116.86	111.03
4	X	1206	GLY	N-CA-C	-5.25	105.99	113.86
1	C	26	MET	N-CA-C	5.25	119.23	112.41
3	W	638	HIS	N-CA-C	5.24	121.96	110.80
1	E	26	MET	N-CA-C	5.24	119.22	112.41
1	P	164	ASP	N-CA-C	5.24	116.84	111.03
1	Q	26	MET	N-CA-C	5.24	119.22	112.41
2	U	170	THR	N-CA-C	-5.24	106.80	114.39
1	I	26	MET	N-CA-C	5.23	119.21	112.41
4	Y	1138	THR	N-CA-C	5.23	117.28	110.53
1	K	26	MET	N-CA-C	5.23	119.21	112.41
1	S	26	MET	N-CA-C	5.23	119.21	112.41
4	X	602	GLY	N-CA-C	5.23	125.57	113.18
1	H	274	ILE	CB-CA-C	-5.22	103.80	112.26
1	O	26	MET	N-CA-C	5.22	119.20	112.41
1	G	26	MET	N-CA-C	5.22	119.19	112.41
3	W	502	ASN	CA-C-N	5.22	124.91	119.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	W	502	ASN	C-N-CA	5.22	124.91	119.64
3	W	1208	CYS	N-CA-C	5.22	117.95	109.24
4	Y	40	ASN	N-CA-C	5.21	116.65	111.07
4	Y	15	SER	CA-C-N	5.21	126.36	119.84
4	Y	15	SER	C-N-CA	5.21	126.36	119.84
1	A	26	MET	N-CA-C	5.21	119.19	112.41
1	M	26	MET	N-CA-C	5.21	119.18	112.41
1	F	274	ILE	CB-CA-C	-5.21	103.82	112.26
1	N	274	ILE	CB-CA-C	-5.21	103.82	112.26
1	T	164	ASP	N-CA-C	5.21	116.81	111.03
4	X	578	ASP	N-CA-C	5.21	117.10	109.71
1	L	274	ILE	CB-CA-C	-5.20	103.83	112.26
4	X	750	MET	N-CA-C	5.20	117.85	111.82
1	P	274	ILE	CB-CA-C	-5.20	103.84	112.26
1	H	588	ILE	CA-C-N	5.19	125.48	119.93
1	H	588	ILE	C-N-CA	5.19	125.48	119.93
1	R	274	ILE	CB-CA-C	-5.19	103.85	112.26
1	B	274	ILE	CB-CA-C	-5.19	103.86	112.26
1	P	421	HIS	N-CA-C	5.19	117.17	107.99
1	T	274	ILE	CB-CA-C	-5.19	103.86	112.26
1	N	164	ASP	N-CA-C	5.18	116.78	111.03
1	D	588	ILE	CA-C-N	5.18	125.47	119.93
1	D	588	ILE	C-N-CA	5.18	125.47	119.93
4	X	519	GLN	N-CA-C	5.18	121.25	109.81
3	W	1120	VAL	N-CA-C	5.17	113.53	107.89
1	R	421	HIS	N-CA-C	5.17	117.14	107.99
1	F	421	HIS	N-CA-C	5.17	117.14	107.99
1	J	274	ILE	CB-CA-C	-5.17	103.89	112.26
1	L	421	HIS	N-CA-C	5.17	117.14	107.99
4	Y	990	ASN	N-CA-C	-5.17	106.21	112.88
1	B	421	HIS	N-CA-C	5.17	117.13	107.99
1	T	421	HIS	N-CA-C	5.16	117.06	108.02
1	D	274	ILE	CB-CA-C	-5.16	103.90	112.26
1	D	421	HIS	N-CA-C	5.16	117.05	108.02
1	L	290	ALA	N-CA-C	5.16	118.36	108.97
1	B	290	ALA	N-CA-C	5.16	118.36	108.97
1	H	421	HIS	N-CA-C	5.16	117.05	108.02
1	R	290	ALA	N-CA-C	5.16	118.36	108.97
1	H	164	ASP	N-CA-C	5.16	116.75	111.03
1	T	290	ALA	N-CA-C	5.16	118.35	108.97
1	P	588	ILE	CA-C-N	5.15	125.44	119.93
1	P	588	ILE	C-N-CA	5.15	125.44	119.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	N	588	ILE	CA-C-N	5.15	125.44	119.93
1	N	588	ILE	C-N-CA	5.15	125.44	119.93
1	R	588	ILE	CA-C-N	5.15	125.44	119.93
1	R	588	ILE	C-N-CA	5.15	125.44	119.93
1	F	290	ALA	N-CA-C	5.15	118.33	108.97
1	J	290	ALA	N-CA-C	5.15	118.34	108.97
1	D	290	ALA	N-CA-C	5.14	118.33	108.97
1	H	290	ALA	N-CA-C	5.14	118.33	108.97
1	J	421	HIS	N-CA-C	5.14	117.09	107.99
1	J	588	ILE	CA-C-N	5.14	125.43	119.93
1	J	588	ILE	C-N-CA	5.14	125.43	119.93
1	N	290	ALA	N-CA-C	5.14	118.33	108.97
1	P	290	ALA	N-CA-C	5.14	118.32	108.97
1	N	421	HIS	N-CA-C	5.14	117.08	107.99
1	B	588	ILE	CA-C-N	5.13	125.42	119.93
1	B	588	ILE	C-N-CA	5.13	125.42	119.93
1	T	343	ALA	N-CA-C	-5.13	104.36	111.28
1	F	588	ILE	CA-C-N	5.12	125.41	119.93
1	F	588	ILE	C-N-CA	5.12	125.41	119.93
1	J	60	SER	N-CA-C	-5.12	105.78	111.36
1	P	343	ALA	N-CA-C	-5.12	104.37	111.28
1	N	343	ALA	N-CA-C	-5.12	104.37	111.28
3	W	109	ALA	N-CA-C	-5.12	107.16	113.41
1	L	588	ILE	CA-C-N	5.12	125.40	119.93
1	L	588	ILE	C-N-CA	5.12	125.40	119.93
1	H	224	ASP	N-CA-C	5.11	117.09	110.65
1	B	343	ALA	N-CA-C	-5.11	104.39	111.28
1	J	224	ASP	N-CA-C	5.11	117.08	110.65
1	H	343	ALA	N-CA-C	-5.10	104.39	111.28
3	W	992	SER	CA-C-N	5.10	126.22	119.84
3	W	992	SER	C-N-CA	5.10	126.22	119.84
1	N	224	ASP	N-CA-C	5.10	117.07	110.65
1	R	343	ALA	N-CA-C	-5.10	104.40	111.28
4	Y	565	LYS	N-CA-C	-5.09	106.76	112.87
1	H	524	ALA	N-CA-C	5.09	116.52	110.97
1	F	343	ALA	N-CA-C	-5.09	104.41	111.28
1	P	224	ASP	N-CA-C	5.09	117.07	110.65
4	Y	485	PRO	N-CA-C	-5.09	107.11	114.18
1	T	588	ILE	CA-C-N	5.09	125.37	119.93
1	T	588	ILE	C-N-CA	5.09	125.37	119.93
1	D	224	ASP	N-CA-C	5.08	117.05	110.65
1	L	343	ALA	N-CA-C	-5.08	104.42	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	X	946	VAL	N-CA-C	5.08	119.91	109.34
1	T	224	ASP	N-CA-C	5.08	117.05	110.65
1	B	224	ASP	N-CA-C	5.08	117.05	110.65
1	J	343	ALA	N-CA-C	-5.08	104.42	111.28
4	Y	643	ALA	N-CA-C	-5.07	105.83	111.36
1	D	343	ALA	N-CA-C	-5.07	104.43	111.28
1	R	224	ASP	N-CA-C	5.07	117.04	110.65
1	F	520	VAL	N-CA-C	-5.07	105.91	110.82
1	F	224	ASP	N-CA-C	5.06	117.03	110.65
1	L	224	ASP	N-CA-C	5.06	117.03	110.65
1	L	520	VAL	N-CA-C	-5.06	105.91	110.82
3	W	542	ILE	CA-C-N	5.06	125.30	119.83
3	W	542	ILE	C-N-CA	5.06	125.30	119.83
3	W	1013	ILE	N-CA-C	-5.05	104.87	110.62
2	U	368	ARG	N-CA-C	-5.04	107.08	113.18
3	W	709	GLY	N-CA-C	5.04	117.26	111.36
1	N	524	ALA	N-CA-C	5.03	116.46	110.97
1	H	520	VAL	N-CA-C	-5.03	105.94	110.82
1	J	520	VAL	N-CA-C	-5.03	105.94	110.82
4	Y	531	CYS	N-CA-C	-5.03	108.17	114.56
3	W	918	ILE	CB-CA-C	-5.02	108.93	113.70
3	W	1186	ASN	N-CA-C	-5.02	102.08	110.17
1	B	520	VAL	N-CA-C	-5.02	105.95	110.82
1	R	520	VAL	N-CA-C	-5.02	105.95	110.82
1	D	520	VAL	N-CA-C	-5.02	105.95	110.82
1	P	520	VAL	N-CA-C	-5.01	105.96	110.82

There are no chirality outliers.

All (15) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	B	337	ARG	Sidechain
1	D	337	ARG	Sidechain
1	F	337	ARG	Sidechain
1	H	337	ARG	Sidechain
1	J	337	ARG	Sidechain
1	L	337	ARG	Sidechain
1	N	337	ARG	Sidechain
1	P	337	ARG	Sidechain
1	R	337	ARG	Sidechain
1	T	337	ARG	Sidechain
4	X	344	TYR	Sidechain

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Mol	Chain	Res	Type	Group
4	X	525	TYR	Sidechain
4	X	930	ARG	Sidechain
4	Y	347	ARG	Sidechain
4	Y	737	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	291	0	277	57	0
1	B	4508	0	4555	671	0
1	C	291	0	277	81	0
1	D	4508	0	4555	931	0
1	E	291	0	277	80	0
1	F	4508	0	4555	902	0
1	G	284	0	267	58	0
1	H	4508	0	4555	890	0
1	I	291	0	277	84	0
1	J	4508	0	4555	916	0
1	K	291	0	277	81	0
1	L	4508	0	4555	904	0
1	M	284	0	267	60	0
1	N	4508	0	4555	908	0
1	O	291	0	277	78	0
1	P	4508	0	4555	927	0
1	Q	291	0	277	88	0
1	R	4508	0	4555	912	0
1	S	284	0	267	60	0
1	T	4508	0	4555	904	0
2	U	3138	0	3061	471	0
2	V	3138	0	3061	181	0
3	W	9882	0	9821	1088	0
4	X	7873	0	7851	1319	0
4	Y	8835	0	8748	1111	0
5	A	15	0	27	27	0
5	C	15	0	27	31	0
5	E	15	0	27	27	0
5	G	15	0	27	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
5	I	15	0	27	29	0
5	K	15	0	27	27	0
5	M	15	0	27	26	0
5	O	15	0	27	28	0
5	Q	15	0	27	27	0
5	S	15	0	27	30	0
All	All	80985	0	81102	12113	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 75.

All (12113) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:32:CYS:HB3	4:X:958:HIS:CE1	1.55	1.38
4:X:464:SER:HB2	4:Y:500:ILE:CG2	1.52	1.38
1:R:628:GLN:NE2	3:W:870:ALA:HA	1.41	1.35
1:D:469:VAL:HG21	1:F:575:MET:CE	1.59	1.33
1:F:469:VAL:HG21	1:H:575:MET:CE	1.59	1.33
1:D:575:MET:CE	1:H:469:VAL:HG21	1.59	1.32
1:P:469:VAL:HG21	1:R:575:MET:CE	1.59	1.32
1:J:575:MET:CE	1:N:469:VAL:HG21	1.59	1.31
1:J:469:VAL:HG21	1:L:575:MET:CE	1.59	1.31
1:R:469:VAL:HG21	1:T:575:MET:CE	1.59	1.31
1:L:469:VAL:HG21	1:N:575:MET:CE	1.59	1.30
1:T:291:PRO:CB	1:T:467:THR:HG22	1.62	1.30
1:L:291:PRO:CB	1:L:467:THR:HG22	1.62	1.29
1:P:575:MET:CE	1:T:469:VAL:HG21	1.59	1.29
1:P:291:PRO:CB	1:P:467:THR:HG22	1.62	1.29
1:R:291:PRO:CB	1:R:467:THR:HG22	1.62	1.29
1:B:291:PRO:CB	1:B:467:THR:HG22	1.62	1.29
1:F:291:PRO:CB	1:F:467:THR:HG22	1.62	1.29
1:H:291:PRO:CB	1:H:467:THR:HG22	1.62	1.28
1:P:575:MET:HE3	1:T:469:VAL:CG2	1.64	1.28
1:N:291:PRO:CB	1:N:467:THR:HG22	1.62	1.28
4:X:606:MET:CE	4:Y:718:THR:HG23	1.62	1.28
1:D:469:VAL:CG2	1:F:575:MET:HE3	1.64	1.27
1:F:435:PRO:HG2	1:N:436:TYR:OH	1.29	1.27
1:P:469:VAL:CG2	1:R:575:MET:HE3	1.64	1.27
1:D:291:PRO:CB	1:D:467:THR:HG22	1.62	1.27
1:B:274:ILE:HD11	1:B:514:LEU:CD2	1.66	1.26

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:274:ILE:HD11	1:F:514:LEU:CD2	1.66	1.26
1:J:575:MET:HE3	1:N:469:VAL:CG2	1.64	1.26
1:J:291:PRO:CB	1:J:467:THR:HG22	1.62	1.26
1:L:469:VAL:CG2	1:N:575:MET:HE3	1.64	1.26
1:R:469:VAL:CG2	1:T:575:MET:HE3	1.64	1.26
1:T:274:ILE:HD11	1:T:514:LEU:CD2	1.66	1.26
1:D:274:ILE:HD11	1:D:514:LEU:CD2	1.66	1.26
1:F:469:VAL:CG2	1:H:575:MET:HE3	1.64	1.25
1:J:274:ILE:HD11	1:J:514:LEU:CD2	1.66	1.25
1:J:469:VAL:CG2	1:L:575:MET:HE3	1.64	1.25
1:H:274:ILE:HD11	1:H:514:LEU:CD2	1.66	1.25
1:D:575:MET:HE3	1:H:469:VAL:CG2	1.64	1.25
1:J:78:MET:CE	1:N:238:VAL:HG21	1.67	1.25
1:R:274:ILE:HD11	1:R:514:LEU:CD2	1.66	1.25
1:N:274:ILE:HD11	1:N:514:LEU:CD2	1.66	1.24
1:P:78:MET:CE	1:T:238:VAL:HG21	1.67	1.24
1:L:274:ILE:HD11	1:L:514:LEU:CD2	1.66	1.24
1:P:238:VAL:HG21	1:R:78:MET:CE	1.67	1.24
1:D:78:MET:CE	1:H:238:VAL:HG21	1.67	1.24
1:J:238:VAL:HG21	1:L:78:MET:CE	1.67	1.24
5:A:649:MYR:H101	5:A:649:MYR:C14	1.67	1.24
1:P:274:ILE:HD11	1:P:514:LEU:CD2	1.66	1.24
5:E:649:MYR:H101	5:E:649:MYR:C14	1.67	1.23
1:R:238:VAL:HG21	1:T:78:MET:CE	1.67	1.23
5:S:649:MYR:H101	5:S:649:MYR:C14	1.67	1.23
1:D:238:VAL:HG21	1:F:78:MET:CE	1.67	1.23
5:M:649:MYR:H101	5:M:649:MYR:C14	1.67	1.23
5:Q:649:MYR:H101	5:Q:649:MYR:C14	1.67	1.23
1:F:238:VAL:HG21	1:H:78:MET:CE	1.67	1.22
5:I:649:MYR:H101	5:I:649:MYR:C14	1.67	1.22
1:L:238:VAL:HG21	1:N:78:MET:CE	1.67	1.22
1:N:161:LYS:HD3	1:N:162:HIS:N	1.55	1.22
5:C:649:MYR:H101	5:C:649:MYR:C14	1.67	1.22
5:G:649:MYR:H101	5:G:649:MYR:C14	1.67	1.22
5:O:649:MYR:H101	5:O:649:MYR:C14	1.67	1.21
4:X:787:ARG:HH21	4:X:787:ARG:CG	1.54	1.21
2:U:60:SER:HB3	2:U:63:SER:HB2	1.24	1.20
5:K:649:MYR:H101	5:K:649:MYR:C14	1.67	1.20
1:J:338:VAL:HG12	1:J:440:LEU:HG	1.20	1.19
3:W:840:CYS:HB3	3:W:854:MET:SD	1.81	1.19
4:X:616:SER:CB	4:Y:723:ASP:HB2	1.73	1.19

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:198:ARG:NH2	4:X:648:ALA:HB1	1.58	1.18
2:U:178:THR:CG2	4:X:376:LEU:HD23	1.72	1.18
1:P:472:ARG:NH1	1:R:530:ARG:HG3	1.58	1.17
2:U:32:CYS:CB	4:X:958:HIS:CE1	2.26	1.17
1:D:238:VAL:HA	1:F:142:ILE:HD11	1.18	1.17
2:V:192:PHE:HB2	4:Y:376:LEU:HD21	1.26	1.17
1:J:274:ILE:HD11	1:J:514:LEU:HD22	1.27	1.16
1:R:609:ARG:HB3	1:S:29:THR:HG22	1.27	1.16
1:R:338:VAL:HG12	1:R:440:LEU:HG	1.20	1.15
1:H:338:VAL:HG12	1:H:440:LEU:HG	1.20	1.15
1:F:358:LEU:HD13	1:F:417:PHE:HE2	1.12	1.15
1:R:274:ILE:HD11	1:R:514:LEU:HD22	1.27	1.15
2:U:178:THR:CG2	4:X:376:LEU:CD2	2.25	1.15
1:B:291:PRO:HB2	1:B:467:THR:HG22	1.29	1.15
1:H:358:LEU:HD13	1:H:417:PHE:HE2	1.12	1.15
1:J:609:ARG:HB3	1:K:29:THR:HG22	1.27	1.15
1:P:338:VAL:HG12	1:P:440:LEU:HG	1.20	1.15
1:L:358:LEU:HD13	1:L:417:PHE:HE2	1.12	1.14
2:U:178:THR:HG22	4:X:376:LEU:CD2	1.75	1.14
1:N:291:PRO:HB2	1:N:467:THR:HG22	1.29	1.14
1:B:358:LEU:HD13	1:B:417:PHE:HE2	1.12	1.14
2:U:27:GLN:HG2	4:X:880:LEU:HB3	1.15	1.14
1:P:609:ARG:HB3	1:Q:29:THR:HG22	1.27	1.14
1:T:274:ILE:HD11	1:T:514:LEU:HD22	1.28	1.14
1:F:274:ILE:HD11	1:F:514:LEU:HD22	1.28	1.13
1:O:29:THR:HG22	1:T:609:ARG:HB3	1.27	1.13
5:O:649:MYR:O1	1:P:204:PRO:HG3	1.49	1.13
1:R:341:MET:HE2	1:R:341:MET:HA	1.31	1.13
1:T:338:VAL:HG12	1:T:440:LEU:HG	1.20	1.13
4:X:787:ARG:HH21	4:X:787:ARG:HG3	0.99	1.13
1:D:609:ARG:HB3	1:E:29:THR:HG22	1.27	1.13
1:T:375:LEU:HD23	1:T:437:ILE:HD11	1.31	1.13
4:X:1149:THR:HG21	4:X:1161:ASN:HA	1.29	1.13
1:F:338:VAL:HG12	1:F:440:LEU:HG	1.20	1.13
1:L:375:LEU:HD23	1:L:437:ILE:HD11	1.31	1.13
1:B:431:ILE:O	1:B:431:ILE:HG22	1.49	1.12
1:B:375:LEU:HD23	1:B:437:ILE:HD11	1.31	1.12
1:N:358:LEU:HD13	1:N:417:PHE:CE2	1.84	1.12
1:P:358:LEU:HD13	1:P:417:PHE:HE2	1.12	1.12
1:H:358:LEU:HD13	1:H:417:PHE:CE2	1.84	1.12
1:L:358:LEU:HD13	1:L:417:PHE:CE2	1.84	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:355:LYS:NZ	4:Y:1156:THR:HG22	1.64	1.12
5:C:649:MYR:O1	1:D:204:PRO:HG3	1.49	1.12
5:K:649:MYR:H22	1:L:191:LYS:HZ3	1.09	1.12
1:N:431:ILE:HG22	1:N:431:ILE:O	1.49	1.12
1:R:628:GLN:HE21	3:W:870:ALA:CA	1.63	1.12
1:B:338:VAL:HG12	1:B:440:LEU:HG	1.20	1.12
1:R:237:GLU:HB2	1:T:46:LYS:HZ1	1.15	1.12
5:A:649:MYR:O1	1:B:204:PRO:HG3	1.49	1.11
1:D:375:LEU:HD23	1:D:437:ILE:HD11	1.31	1.11
1:F:358:LEU:HD13	1:F:417:PHE:CE2	1.84	1.11
1:R:358:LEU:HD13	1:R:417:PHE:CE2	1.84	1.11
2:U:32:CYS:SG	4:X:958:HIS:NE2	2.23	1.11
1:J:46:LYS:HZ1	1:N:237:GLU:HB2	1.15	1.11
1:J:375:LEU:HD23	1:J:437:ILE:HD11	1.31	1.11
3:W:969:ASP:HB2	3:W:972:PRO:HD2	1.31	1.11
1:D:63:ILE:HD13	1:D:63:ILE:H	0.95	1.11
1:R:358:LEU:HD13	1:R:417:PHE:HE2	1.12	1.11
5:I:649:MYR:O1	1:J:204:PRO:HG3	1.49	1.11
1:P:116:SER:HB3	1:P:133:ASN:H	1.16	1.11
1:P:358:LEU:HD13	1:P:417:PHE:CE2	1.85	1.11
1:T:358:LEU:HD13	1:T:417:PHE:CE2	1.84	1.11
1:B:358:LEU:HD13	1:B:417:PHE:CE2	1.84	1.11
1:F:375:LEU:HD23	1:F:437:ILE:HD11	1.31	1.11
1:H:274:ILE:HD11	1:H:514:LEU:HD22	1.27	1.11
1:P:341:MET:HE2	1:P:341:MET:HA	1.30	1.11
1:C:29:THR:HG22	1:H:609:ARG:HB3	1.27	1.10
1:D:237:GLU:HB2	1:F:46:LYS:HZ1	1.16	1.10
1:J:238:VAL:HG21	1:L:78:MET:HE1	1.11	1.10
3:W:62:TYR:HB3	3:W:63:PRO:HD2	1.32	1.10
1:F:237:GLU:HB2	1:H:46:LYS:HZ1	1.16	1.10
1:J:358:LEU:HD13	1:J:417:PHE:CE2	1.84	1.10
1:R:431:ILE:O	1:R:431:ILE:HG22	1.49	1.10
1:T:277:ASP:O	1:T:278:THR:HG22	1.52	1.10
4:X:827:THR:HG22	4:X:828:GLU:H	1.15	1.10
1:D:358:LEU:HD13	1:D:417:PHE:CE2	1.84	1.10
1:F:291:PRO:HB2	1:F:467:THR:HG22	1.29	1.10
1:H:277:ASP:O	1:H:278:THR:HG22	1.52	1.10
1:N:277:ASP:O	1:N:278:THR:HG22	1.52	1.10
1:P:274:ILE:HD11	1:P:514:LEU:HD22	1.28	1.10
1:J:341:MET:HE2	1:J:341:MET:HA	1.30	1.10
1:L:237:GLU:HB2	1:N:46:LYS:HZ1	1.16	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:375:LEU:HD23	1:N:437:ILE:HD11	1.31	1.10
4:X:1012:ARG:H	4:X:1012:ARG:HD3	1.07	1.10
1:B:274:ILE:HD11	1:B:514:LEU:HD22	1.28	1.10
1:I:29:THR:HG22	1:N:609:ARG:HB3	1.27	1.10
1:J:51:VAL:HG12	1:J:60:SER:O	1.52	1.10
1:L:341:MET:HA	1:L:341:MET:HE2	1.30	1.10
1:D:341:MET:HE2	1:D:341:MET:HA	1.31	1.09
1:E:41:LEU:O	1:E:42:ASN:HB3	1.49	1.09
1:F:116:SER:HB3	1:F:133:ASN:H	1.16	1.09
1:L:291:PRO:HB3	1:L:467:THR:HG22	1.35	1.09
1:P:161:LYS:NZ	1:T:531:THR:HB	1.65	1.09
1:P:238:VAL:HG21	1:R:78:MET:HE1	1.11	1.09
1:T:116:SER:HB3	1:T:133:ASN:H	1.16	1.09
3:W:971:VAL:HG13	3:W:972:PRO:HD3	1.20	1.09
4:X:801:ARG:HH11	4:X:801:ARG:HB2	1.09	1.09
5:G:649:MYR:O1	1:H:204:PRO:HG3	1.53	1.09
1:L:291:PRO:HB2	1:L:467:THR:HG22	1.29	1.09
1:L:609:ARG:HB3	1:M:29:THR:HG22	1.27	1.09
1:R:277:ASP:O	1:R:278:THR:HG22	1.52	1.09
1:F:277:ASP:O	1:F:278:THR:HG22	1.52	1.09
1:J:358:LEU:HD13	1:J:417:PHE:HE2	1.12	1.09
1:L:338:VAL:HG12	1:L:440:LEU:HG	1.20	1.09
5:A:649:MYR:H101	5:A:649:MYR:H142	1.34	1.09
1:B:386:THR:HG22	1:B:387:THR:HG23	1.35	1.09
5:K:649:MYR:H101	5:K:649:MYR:H142	1.34	1.09
4:Y:374:ALA:HB1	4:Y:377:ILE:HD11	1.34	1.09
1:B:341:MET:HE2	1:B:341:MET:HA	1.30	1.09
1:D:274:ILE:HD11	1:D:514:LEU:HD22	1.28	1.09
1:F:431:ILE:HG22	1:F:431:ILE:O	1.49	1.09
1:F:609:ARG:HB3	1:G:29:THR:HG22	1.27	1.09
1:N:338:VAL:HG12	1:N:440:LEU:HG	1.20	1.09
1:P:78:MET:HE1	1:T:238:VAL:HG21	1.11	1.09
1:P:277:ASP:O	1:P:278:THR:HG22	1.52	1.09
1:T:358:LEU:HD13	1:T:417:PHE:HE2	1.12	1.09
1:B:277:ASP:O	1:B:278:THR:HG22	1.52	1.08
1:D:338:VAL:HG12	1:D:440:LEU:HG	1.20	1.08
5:M:649:MYR:O1	1:N:204:PRO:HG3	1.53	1.08
1:N:116:SER:HB3	1:N:133:ASN:H	1.16	1.08
1:N:274:ILE:HD11	1:N:514:LEU:HD22	1.27	1.08
1:B:274:ILE:HG21	1:B:601:THR:HG21	1.08	1.08
1:D:277:ASP:O	1:D:278:THR:HG22	1.52	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:291:PRO:HB2	1:J:467:THR:HG22	1.29	1.08
1:P:291:PRO:HB2	1:P:467:THR:HG22	1.30	1.08
1:R:375:LEU:HD23	1:R:437:ILE:HD11	1.31	1.08
5:S:649:MYR:H101	5:S:649:MYR:H142	1.34	1.08
1:T:358:LEU:HD22	1:T:417:PHE:CE2	1.89	1.08
1:T:386:THR:HG22	1:T:387:THR:HG23	1.35	1.08
4:Y:996:MET:HE2	4:Y:996:MET:HA	1.28	1.08
1:C:41:LEU:O	1:C:42:ASN:HB3	1.49	1.08
1:D:291:PRO:HB2	1:D:467:THR:HG22	1.29	1.08
1:L:358:LEU:HD22	1:L:417:PHE:CE2	1.89	1.08
1:L:386:THR:HG22	1:L:387:THR:HG23	1.35	1.08
1:P:358:LEU:HD22	1:P:417:PHE:CE2	1.89	1.08
1:R:274:ILE:HG21	1:R:601:THR:HG21	1.08	1.08
1:H:375:LEU:HD23	1:H:437:ILE:HD11	1.31	1.08
1:J:78:MET:HE1	1:N:238:VAL:HG21	1.11	1.08
1:J:274:ILE:HG21	1:J:601:THR:HG21	1.08	1.08
1:T:274:ILE:HG21	1:T:601:THR:HG21	1.08	1.08
1:A:41:LEU:O	1:A:42:ASN:HB3	1.49	1.08
1:D:274:ILE:HG21	1:D:601:THR:HG21	1.08	1.08
1:D:358:LEU:HD22	1:D:417:PHE:CE2	1.89	1.08
5:E:649:MYR:H101	5:E:649:MYR:H142	1.34	1.08
1:K:41:LEU:O	1:K:42:ASN:HB3	1.49	1.08
1:L:238:VAL:HG21	1:N:78:MET:HE1	1.11	1.08
1:R:291:PRO:HB2	1:R:467:THR:HG22	1.29	1.08
5:C:649:MYR:H101	5:C:649:MYR:H142	1.34	1.07
1:D:386:THR:HG22	1:D:387:THR:HG23	1.35	1.07
1:D:431:ILE:HG22	1:D:431:ILE:O	1.49	1.07
1:F:358:LEU:HD22	1:F:417:PHE:CE2	1.89	1.07
1:P:431:ILE:O	1:P:431:ILE:HG22	1.49	1.07
1:R:358:LEU:HD22	1:R:417:PHE:CE2	1.89	1.07
1:T:291:PRO:HB2	1:T:467:THR:HG22	1.29	1.07
1:F:341:MET:HE2	1:F:341:MET:HA	1.30	1.07
1:O:41:LEU:O	1:O:42:ASN:HB3	1.49	1.07
5:S:649:MYR:O1	1:T:204:PRO:HG3	1.53	1.07
1:T:291:PRO:HB3	1:T:467:THR:HG22	1.35	1.07
5:E:649:MYR:H22	1:F:191:LYS:HZ3	1.12	1.07
1:H:358:LEU:HD22	1:H:417:PHE:CE2	1.89	1.07
1:L:274:ILE:HD11	1:L:514:LEU:HD22	1.28	1.07
1:L:277:ASP:O	1:L:278:THR:HG22	1.52	1.07
1:P:375:LEU:HD23	1:P:437:ILE:HD11	1.31	1.07
1:P:386:THR:HG22	1:P:387:THR:HG23	1.35	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:116:SER:HB3	1:B:133:ASN:H	1.16	1.07
1:D:46:LYS:HZ1	1:H:237:GLU:HB2	1.20	1.07
1:D:291:PRO:HB3	1:D:467:THR:HG22	1.35	1.07
1:F:291:PRO:HB3	1:F:467:THR:HG22	1.35	1.07
1:H:341:MET:HE2	1:H:341:MET:HA	1.30	1.07
1:J:116:SER:HB3	1:J:133:ASN:H	1.16	1.07
5:M:649:MYR:H102	1:N:200:CYS:SG	1.95	1.07
1:N:358:LEU:HD22	1:N:417:PHE:CE2	1.89	1.07
1:D:238:VAL:HG21	1:F:78:MET:HE1	1.11	1.06
1:Q:41:LEU:O	1:Q:42:ASN:HB3	1.49	1.06
1:B:358:LEU:HD22	1:B:417:PHE:CE2	1.89	1.06
1:L:116:SER:HB3	1:L:133:ASN:H	1.16	1.06
4:X:606:MET:CE	4:Y:718:THR:CG2	2.33	1.06
5:G:649:MYR:H102	1:H:200:CYS:SG	1.95	1.06
1:L:431:ILE:HG22	1:L:431:ILE:O	1.49	1.06
1:N:161:LYS:HD3	1:N:161:LYS:C	1.79	1.06
1:N:386:THR:HG22	1:N:387:THR:HG23	1.35	1.06
1:B:443:PHE:HB2	1:B:457:PRO:HB2	1.38	1.06
1:D:530:ARG:HE	1:H:472:ARG:NH2	1.53	1.06
1:J:277:ASP:O	1:J:278:THR:HG22	1.52	1.06
1:J:358:LEU:HD22	1:J:417:PHE:CE2	1.89	1.06
1:N:274:ILE:HG21	1:N:601:THR:HG21	1.08	1.06
1:R:545:VAL:HG21	1:T:637:PHE:HE2	1.21	1.06
5:S:649:MYR:H102	1:T:200:CYS:SG	1.95	1.06
1:D:472:ARG:NH2	1:F:530:ARG:HE	1.54	1.06
1:I:41:LEU:O	1:I:42:ASN:HB3	1.49	1.06
5:I:649:MYR:H101	5:I:649:MYR:H142	1.34	1.06
1:N:341:MET:HE2	1:N:341:MET:HA	1.31	1.06
1:P:46:LYS:HZ1	1:T:237:GLU:HB2	1.15	1.06
1:P:291:PRO:HB3	1:P:467:THR:HG22	1.35	1.06
1:R:116:SER:HB3	1:R:133:ASN:H	1.16	1.06
1:D:116:SER:HB3	1:D:133:ASN:H	1.16	1.05
1:D:298:PHE:CZ	1:H:355:GLY:HA2	1.91	1.05
1:H:291:PRO:HB3	1:H:467:THR:HG22	1.35	1.05
5:M:649:MYR:H101	5:M:649:MYR:H142	1.34	1.05
1:P:443:PHE:HB2	1:P:457:PRO:HB2	1.38	1.05
5:Q:649:MYR:O1	1:R:204:PRO:HG3	1.56	1.05
1:T:341:MET:HA	1:T:341:MET:HE2	1.31	1.05
1:D:355:GLY:HA2	1:F:298:PHE:CZ	1.91	1.05
1:F:274:ILE:HG21	1:F:601:THR:HG21	1.08	1.05
1:J:237:GLU:HB2	1:L:46:LYS:HZ1	1.15	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:274:ILE:HG21	1:L:601:THR:HG21	1.08	1.05
1:P:637:PHE:HE2	1:T:545:VAL:HG21	1.21	1.05
1:T:431:ILE:HG22	1:T:431:ILE:O	1.49	1.05
1:F:87:PHE:CD1	1:H:121:ALA:HB2	1.92	1.05
5:G:649:MYR:H101	5:G:649:MYR:H142	1.34	1.05
1:J:298:PHE:CZ	1:N:355:GLY:HA2	1.91	1.05
1:J:530:ARG:HE	1:N:472:ARG:NH2	1.54	1.05
1:N:443:PHE:HB2	1:N:457:PRO:HB2	1.38	1.05
1:P:298:PHE:CZ	1:T:355:GLY:HA2	1.91	1.05
1:B:291:PRO:HB3	1:B:467:THR:HG22	1.35	1.05
1:D:78:MET:HE1	1:H:238:VAL:HG21	1.11	1.05
1:F:238:VAL:HG21	1:H:78:MET:HE1	1.11	1.05
1:H:431:ILE:O	1:H:431:ILE:HG22	1.49	1.05
1:L:355:GLY:HA2	1:N:298:PHE:CZ	1.91	1.05
2:U:198:GLN:HE22	4:X:661:THR:HG22	1.16	1.05
4:X:437:ARG:HH22	4:X:1207:ILE:HA	1.17	1.05
1:D:53:THR:HG22	1:D:54:SER:H	1.17	1.04
1:D:358:LEU:HD13	1:D:417:PHE:HE2	1.12	1.04
1:H:116:SER:HB3	1:H:133:ASN:H	1.15	1.04
1:N:358:LEU:HD13	1:N:417:PHE:HE2	1.12	1.04
1:R:355:GLY:HA2	1:T:298:PHE:CZ	1.91	1.04
1:R:386:THR:HG22	1:R:387:THR:HG23	1.35	1.04
2:U:32:CYS:SG	4:X:958:HIS:CE1	2.50	1.04
4:X:464:SER:HB2	4:Y:500:ILE:HG21	1.39	1.04
4:X:616:SER:HB3	4:Y:723:ASP:CB	1.86	1.04
4:Y:690:ALA:HB3	4:Y:691:PRO:HD3	1.38	1.04
5:E:649:MYR:O1	1:F:204:PRO:HG3	1.56	1.04
1:J:121:ALA:HB2	1:N:87:PHE:CD1	1.92	1.04
5:K:649:MYR:O1	1:L:204:PRO:HG3	1.56	1.04
1:P:121:ALA:HB2	1:T:87:PHE:CD1	1.92	1.04
1:R:238:VAL:HG21	1:T:78:MET:HE1	1.11	1.04
1:T:443:PHE:HB2	1:T:457:PRO:HB2	1.38	1.04
1:D:142:ILE:HD11	1:H:238:VAL:CG2	1.86	1.04
1:J:87:PHE:CD1	1:L:121:ALA:HB2	1.92	1.04
1:J:291:PRO:HB3	1:J:467:THR:HG22	1.35	1.04
1:L:87:PHE:CD1	1:N:121:ALA:HB2	1.92	1.04
1:L:443:PHE:HB2	1:L:457:PRO:HB2	1.38	1.04
1:P:87:PHE:CD1	1:R:121:ALA:HB2	1.92	1.04
1:P:274:ILE:HG21	1:P:601:THR:HG21	1.08	1.04
1:D:87:PHE:CD1	1:F:121:ALA:HB2	1.92	1.04
1:D:121:ALA:HB2	1:H:87:PHE:CD1	1.92	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:355:GLY:HA2	1:H:298:PHE:CZ	1.91	1.04
1:F:443:PHE:HB2	1:F:457:PRO:HB2	1.38	1.04
1:P:237:GLU:HB2	1:R:46:LYS:HZ1	1.20	1.04
1:R:291:PRO:HB3	1:R:467:THR:HG22	1.35	1.04
4:X:571:LEU:HD11	4:X:705:ILE:HD11	1.39	1.04
4:Y:557:ILE:HD12	4:Y:593:LEU:HD22	1.36	1.04
1:C:26:MET:HG3	1:D:216:PRO:HG3	1.40	1.04
1:D:443:PHE:HB2	1:D:457:PRO:HB2	1.38	1.04
1:J:355:GLY:HA2	1:L:298:PHE:CZ	1.91	1.04
5:O:649:MYR:H101	5:O:649:MYR:H142	1.34	1.04
1:P:355:GLY:HA2	1:R:298:PHE:CZ	1.91	1.04
1:Q:26:MET:HG3	1:R:216:PRO:HG3	1.40	1.04
2:V:192:PHE:HB2	4:Y:376:LEU:CD2	1.86	1.04
5:G:649:MYR:H22	1:H:191:LYS:HZ3	1.21	1.03
1:H:274:ILE:HG21	1:H:601:THR:HG21	1.08	1.03
1:H:386:THR:HG22	1:H:387:THR:HG23	1.35	1.03
5:Q:649:MYR:H101	5:Q:649:MYR:H142	1.34	1.03
5:C:649:MYR:H102	1:D:200:CYS:SG	1.98	1.03
1:D:142:ILE:CD1	1:H:238:VAL:HG22	1.86	1.03
1:F:386:THR:HG22	1:F:387:THR:HG23	1.35	1.03
1:J:431:ILE:O	1:J:431:ILE:HG22	1.49	1.03
5:O:649:MYR:H102	1:P:200:CYS:SG	1.98	1.03
5:A:649:MYR:H102	1:B:200:CYS:SG	1.98	1.03
1:R:87:PHE:CD1	1:T:121:ALA:HB2	1.92	1.03
1:D:431:ILE:O	1:D:431:ILE:CG2	2.06	1.03
1:J:443:PHE:HB2	1:J:457:PRO:HB2	1.38	1.03
1:N:291:PRO:HB3	1:N:467:THR:HG22	1.35	1.03
4:X:528:PHE:HE1	4:X:575:MET:HE2	1.23	1.03
4:X:925:LEU:HD21	4:Y:496:ALA:HA	1.40	1.03
5:C:649:MYR:H22	1:D:191:LYS:HZ3	1.20	1.03
1:H:291:PRO:HB2	1:H:467:THR:HG22	1.29	1.03
5:I:649:MYR:H102	1:J:200:CYS:SG	1.98	1.03
1:J:386:THR:HG22	1:J:387:THR:HG23	1.35	1.03
1:F:431:ILE:O	1:F:431:ILE:CG2	2.07	1.02
1:H:443:PHE:HB2	1:H:457:PRO:HB2	1.38	1.02
1:K:26:MET:HG3	1:L:216:PRO:HG3	1.40	1.02
1:I:26:MET:HG3	1:J:216:PRO:HG3	1.40	1.02
1:N:431:ILE:O	1:N:431:ILE:CG2	2.07	1.02
4:Y:277:VAL:HG22	4:Y:299:LEU:HD22	1.41	1.02
1:D:545:VAL:HG21	1:F:637:PHE:HE2	1.21	1.02
4:X:787:ARG:HG3	4:X:787:ARG:NH2	1.68	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:431:ILE:O	1:R:431:ILE:CG2	2.06	1.02
1:R:443:PHE:HB2	1:R:457:PRO:HB2	1.38	1.02
4:X:603:VAL:HG11	4:Y:715:VAL:CG1	1.90	1.02
4:Y:235:LEU:HB2	4:Y:356:ASN:HD21	1.24	1.02
1:B:431:ILE:HD13	1:B:437:ILE:CG2	1.90	1.02
1:B:431:ILE:CD1	1:B:437:ILE:HG21	1.90	1.02
1:D:431:ILE:HD13	1:D:437:ILE:CG2	1.90	1.02
1:R:472:ARG:NH2	1:T:530:ARG:HE	1.58	1.02
2:U:178:THR:HG21	4:X:376:LEU:HD23	1.39	1.02
4:Y:355:LYS:HZ1	4:Y:1156:THR:HG22	1.18	1.02
1:F:431:ILE:HD13	1:F:437:ILE:CG2	1.90	1.01
1:F:545:VAL:HG21	1:H:637:PHE:HE2	1.21	1.01
5:G:649:MYR:H101	5:G:649:MYR:H143	1.42	1.01
1:R:431:ILE:CD1	1:R:437:ILE:HG21	1.90	1.01
1:T:431:ILE:O	1:T:431:ILE:CG2	2.07	1.01
1:T:431:ILE:HD13	1:T:437:ILE:CG2	1.90	1.01
5:E:649:MYR:H102	1:F:200:CYS:SG	2.00	1.01
1:F:431:ILE:HD13	1:F:437:ILE:HG21	1.43	1.01
1:F:431:ILE:CD1	1:F:437:ILE:HG21	1.90	1.01
1:L:431:ILE:HD13	1:L:437:ILE:CG2	1.90	1.01
2:V:175:MET:SD	4:Y:400:GLU:HG2	2.00	1.01
1:B:358:LEU:CD1	1:B:417:PHE:HE2	1.74	1.01
1:B:431:ILE:O	1:B:431:ILE:CG2	2.06	1.01
1:D:431:ILE:HD13	1:D:437:ILE:HG21	1.43	1.01
1:E:26:MET:HG3	1:F:216:PRO:HG3	1.40	1.01
1:H:431:ILE:O	1:H:431:ILE:CG2	2.06	1.01
1:J:431:ILE:HD13	1:J:437:ILE:HG21	1.43	1.01
1:J:637:PHE:HE2	1:N:545:VAL:HG21	1.21	1.01
1:L:431:ILE:CD1	1:L:437:ILE:HG21	1.90	1.01
1:L:545:VAL:HG21	1:N:637:PHE:HE2	1.21	1.01
1:P:431:ILE:O	1:P:431:ILE:CG2	2.06	1.01
1:P:431:ILE:HD13	1:P:437:ILE:HG21	1.43	1.01
1:R:431:ILE:HD13	1:R:437:ILE:CG2	1.90	1.01
1:J:431:ILE:O	1:J:431:ILE:CG2	2.06	1.01
5:K:649:MYR:H101	5:K:649:MYR:H143	1.42	1.01
1:N:274:ILE:CD1	1:N:514:LEU:CD2	2.39	1.01
1:N:431:ILE:CD1	1:N:437:ILE:HG21	1.90	1.01
3:W:1176:VAL:HG23	3:W:1280:VAL:HG13	1.42	1.01
5:M:649:MYR:H101	5:M:649:MYR:H143	1.42	1.01
1:P:338:VAL:CG1	1:P:440:LEU:HG	1.91	1.01
1:P:431:ILE:HD13	1:P:437:ILE:CG2	1.90	1.01

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:545:VAL:HG21	1:R:637:PHE:HE2	1.21	1.01
5:Q:649:MYR:H102	1:R:200:CYS:SG	1.99	1.01
1:R:338:VAL:CG1	1:R:440:LEU:HG	1.91	1.01
4:X:718:THR:HG23	4:X:726:ARG:HH12	1.24	1.01
1:D:431:ILE:CD1	1:D:437:ILE:HG21	1.90	1.00
1:H:358:LEU:CD1	1:H:417:PHE:HE2	1.74	1.00
1:J:545:VAL:HG21	1:L:637:PHE:HE2	1.21	1.00
5:K:649:MYR:H102	1:L:200:CYS:SG	1.99	1.00
1:O:26:MET:HG3	1:P:216:PRO:HG3	1.40	1.00
1:T:431:ILE:CD1	1:T:437:ILE:HG21	1.90	1.00
2:U:178:THR:HG22	4:X:376:LEU:HD21	1.37	1.00
4:Y:557:ILE:HG23	4:Y:717:MET:HE1	1.42	1.00
1:B:274:ILE:CD1	1:B:514:LEU:CD2	2.39	1.00
1:D:142:ILE:HD11	1:H:238:VAL:HG22	1.00	1.00
1:H:431:ILE:CD1	1:H:437:ILE:HG21	1.90	1.00
1:J:431:ILE:HD13	1:J:437:ILE:CG2	1.90	1.00
1:M:26:MET:HG3	1:N:216:PRO:HG3	1.40	1.00
1:N:338:VAL:CG1	1:N:440:LEU:HG	1.91	1.00
1:P:431:ILE:CD1	1:P:437:ILE:HG21	1.90	1.00
1:R:358:LEU:CD1	1:R:417:PHE:HE2	1.74	1.00
5:A:649:MYR:H22	1:B:191:LYS:HZ3	1.25	1.00
1:R:274:ILE:CD1	1:R:514:LEU:CD2	2.39	1.00
1:T:358:LEU:CD1	1:T:417:PHE:HE2	1.74	1.00
3:W:1074:THR:HG22	3:W:1075:PRO:HD2	1.44	1.00
4:Y:542:THR:HG23	4:Y:808:ALA:HB3	1.44	1.00
1:B:338:VAL:CG1	1:B:440:LEU:HG	1.91	1.00
1:D:274:ILE:CD1	1:D:514:LEU:CD2	2.39	1.00
1:D:545:VAL:HG21	1:F:637:PHE:CE2	1.97	1.00
1:H:431:ILE:HD13	1:H:437:ILE:CG2	1.90	1.00
1:J:431:ILE:CD1	1:J:437:ILE:HG21	1.90	1.00
1:L:431:ILE:O	1:L:431:ILE:CG2	2.07	1.00
1:A:26:MET:HG3	1:B:216:PRO:HG3	1.40	1.00
1:D:637:PHE:HE2	1:H:545:VAL:HG21	1.21	1.00
1:F:545:VAL:HG21	1:H:637:PHE:CE2	1.97	1.00
1:H:338:VAL:CG1	1:H:440:LEU:HG	1.91	1.00
1:J:274:ILE:CD1	1:J:514:LEU:CD2	2.39	1.00
1:L:338:VAL:CG1	1:L:440:LEU:HG	1.91	1.00
1:D:637:PHE:CE2	1:H:545:VAL:HG21	1.97	1.00
1:F:274:ILE:CD1	1:F:514:LEU:CD2	2.39	1.00
1:F:274:ILE:CG2	1:F:601:THR:HG21	1.92	1.00
1:G:26:MET:HG3	1:H:216:PRO:HG3	1.40	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:274:ILE:CG2	1:H:601:THR:HG21	1.92	1.00
1:N:431:ILE:HD13	1:N:437:ILE:CG2	1.90	1.00
1:P:274:ILE:CG2	1:P:601:THR:HG21	1.92	1.00
1:P:274:ILE:CD1	1:P:514:LEU:CD2	2.39	1.00
1:P:637:PHE:CE2	1:T:545:VAL:HG21	1.97	1.00
1:F:338:VAL:CG1	1:F:440:LEU:HG	1.91	0.99
1:H:274:ILE:HG21	1:H:601:THR:CG2	1.92	0.99
1:H:274:ILE:CD1	1:H:514:LEU:CD2	2.39	0.99
1:J:338:VAL:CG1	1:J:440:LEU:HG	1.91	0.99
1:J:637:PHE:CE2	1:N:545:VAL:HG21	1.97	0.99
1:T:338:VAL:CG1	1:T:440:LEU:HG	1.91	0.99
3:W:748:ARG:HH12	3:W:789:ARG:HA	1.26	0.99
1:L:274:ILE:CD1	1:L:514:LEU:CD2	2.39	0.99
1:N:431:ILE:HD13	1:N:437:ILE:HG21	1.43	0.99
1:N:579:ASN:HD22	1:N:582:LEU:HG	1.27	0.99
5:O:649:MYR:H101	5:O:649:MYR:H143	1.42	0.99
1:P:545:VAL:HG21	1:R:637:PHE:CE2	1.97	0.99
4:Y:594:ALA:HA	4:Y:608:GLN:NE2	1.76	0.99
5:C:649:MYR:H101	5:C:649:MYR:H143	1.42	0.99
1:J:237:GLU:HG3	1:L:142:ILE:HD13	1.44	0.99
1:J:274:ILE:HG21	1:J:601:THR:CG2	1.92	0.99
1:P:358:LEU:CD1	1:P:417:PHE:HE2	1.74	0.99
4:Y:632:ASN:HB2	4:Y:635:GLN:HB3	1.42	0.99
1:D:338:VAL:CG1	1:D:440:LEU:HG	1.91	0.99
5:E:649:MYR:H22	1:F:191:LYS:NZ	1.77	0.99
1:I:27:THR:HG23	1:N:609:ARG:NH1	1.78	0.99
1:N:358:LEU:CD1	1:N:417:PHE:HE2	1.74	0.99
5:O:649:MYR:H22	1:P:191:LYS:HZ3	1.28	0.99
3:W:313:LEU:HD13	3:W:318:VAL:HG11	1.44	0.99
1:C:27:THR:HG23	1:H:609:ARG:NH1	1.78	0.99
1:D:274:ILE:HG21	1:D:601:THR:CG2	1.92	0.99
1:F:358:LEU:CD1	1:F:417:PHE:HE2	1.74	0.99
1:L:358:LEU:CD1	1:L:417:PHE:HE2	1.74	0.99
1:L:545:VAL:HG21	1:N:637:PHE:CE2	1.97	0.99
5:Q:649:MYR:H101	5:Q:649:MYR:H143	1.42	0.99
1:S:26:MET:HG3	1:T:216:PRO:HG3	1.40	0.99
1:D:358:LEU:CD1	1:D:417:PHE:HE2	1.74	0.99
1:J:274:ILE:CG2	1:J:601:THR:HG21	1.92	0.99
2:U:84:ILE:HD11	2:U:92:TRP:HB2	1.39	0.99
1:T:274:ILE:CD1	1:T:514:LEU:CD2	2.39	0.99
1:F:609:ARG:NH1	1:G:27:THR:HG23	1.78	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:274:ILE:HG21	1:L:601:THR:CG2	1.92	0.99
4:X:282:TYR:CD2	4:Y:830:ASN:ND2	2.30	0.99
4:X:603:VAL:HG11	4:Y:715:VAL:HG12	1.42	0.99
1:F:274:ILE:HG21	1:F:601:THR:CG2	1.92	0.99
1:J:358:LEU:CD1	1:J:417:PHE:HE2	1.74	0.99
1:J:545:VAL:HG21	1:L:637:PHE:CE2	1.97	0.99
5:M:649:MYR:H22	1:N:191:LYS:HZ3	1.28	0.99
3:W:645:VAL:O	3:W:647:PRO:HD3	1.60	0.99
5:C:649:MYR:H72	1:D:200:CYS:SG	2.03	0.99
5:S:649:MYR:H101	5:S:649:MYR:H143	1.42	0.99
1:R:274:ILE:HG21	1:R:601:THR:CG2	1.92	0.98
1:R:545:VAL:HG21	1:T:637:PHE:CE2	1.97	0.98
1:T:579:ASN:HD22	1:T:582:LEU:HG	1.28	0.98
3:W:1038:ASN:HD22	3:W:1049:ALA:HB3	1.26	0.98
1:H:341:MET:HB3	1:H:431:ILE:HD12	1.46	0.98
1:B:431:ILE:HD13	1:B:437:ILE:HG21	1.43	0.98
1:N:274:ILE:CG2	1:N:601:THR:HG21	1.92	0.98
1:P:579:ASN:HD22	1:P:582:LEU:HG	1.28	0.98
5:S:649:MYR:H72	1:T:200:CYS:SG	2.04	0.98
3:W:1040:VAL:HB	3:W:1041:PRO:HD3	1.43	0.98
5:A:649:MYR:H101	5:A:649:MYR:H143	1.42	0.98
1:B:341:MET:HB3	1:B:431:ILE:CD1	1.94	0.98
1:J:341:MET:HB3	1:J:431:ILE:HD12	1.45	0.98
1:L:341:MET:HB3	1:L:431:ILE:CD1	1.93	0.98
1:R:341:MET:HB3	1:R:431:ILE:CD1	1.93	0.98
1:T:341:MET:HB3	1:T:431:ILE:CD1	1.94	0.98
1:L:579:ASN:HD22	1:L:582:LEU:HG	1.27	0.98
1:P:274:ILE:HG21	1:P:601:THR:CG2	1.92	0.98
1:R:609:ARG:NH1	1:S:27:THR:HG23	1.78	0.98
3:W:818:PHE:HE2	3:W:989:HIS:HD1	1.05	0.98
4:Y:1027:LEU:HD12	4:Y:1027:LEU:H	1.27	0.98
1:D:63:ILE:H	1:D:63:ILE:CD1	1.73	0.98
1:J:579:ASN:HD22	1:J:582:LEU:HG	1.27	0.98
1:R:274:ILE:CG2	1:R:601:THR:HG21	1.92	0.98
4:X:242:ARG:HH21	4:X:1085:LEU:CD1	1.75	0.98
1:B:274:ILE:CG2	1:B:601:THR:HG21	1.92	0.98
5:E:649:MYR:H101	5:E:649:MYR:H143	1.42	0.98
1:H:341:MET:HB3	1:H:431:ILE:CD1	1.94	0.98
1:N:341:MET:HB3	1:N:431:ILE:CD1	1.94	0.98
1:P:341:MET:HB3	1:P:431:ILE:CD1	1.94	0.98
1:T:274:ILE:CG2	1:T:601:THR:HG21	1.92	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:432:ILE:HG21	4:Y:1204:LEU:HB3	1.44	0.98
5:A:649:MYR:H72	1:B:200:CYS:SG	2.03	0.98
1:H:380:VAL:CG1	1:H:384:GLN:HG2	1.94	0.98
1:J:341:MET:HB3	1:J:431:ILE:CD1	1.94	0.98
1:J:609:ARG:NH1	1:K:27:THR:HG23	1.78	0.98
5:M:649:MYR:H72	1:N:200:CYS:SG	2.04	0.98
4:Y:295:SER:HB2	4:Y:890:GLN:NE2	1.79	0.98
1:D:274:ILE:CG2	1:D:601:THR:HG21	1.92	0.98
5:O:649:MYR:H72	1:P:200:CYS:SG	2.03	0.98
4:X:464:SER:CB	4:Y:500:ILE:CG2	2.40	0.98
1:D:380:VAL:CG1	1:D:384:GLN:HG2	1.94	0.97
1:F:380:VAL:CG1	1:F:384:GLN:HG2	1.94	0.97
2:U:27:GLN:CG	4:X:880:LEU:HB3	1.93	0.97
1:L:431:ILE:HD13	1:L:437:ILE:HG21	1.43	0.97
1:R:341:MET:HB3	1:R:431:ILE:HD12	1.45	0.97
1:T:380:VAL:CG1	1:T:384:GLN:HG2	1.94	0.97
1:B:341:MET:HB3	1:B:431:ILE:HD12	1.46	0.97
1:D:341:MET:HB3	1:D:431:ILE:HD12	1.45	0.97
1:D:579:ASN:HD22	1:D:582:LEU:HG	1.27	0.97
1:J:380:VAL:CG1	1:J:384:GLN:HG2	1.94	0.97
1:L:274:ILE:CG2	1:L:601:THR:HG21	1.92	0.97
5:Q:649:MYR:H22	1:R:191:LYS:NZ	1.77	0.97
1:T:341:MET:HB3	1:T:431:ILE:HD12	1.46	0.97
3:W:696:PRO:HG3	3:W:706:SER:HB2	1.46	0.97
1:C:27:THR:O	1:C:27:THR:HG22	1.64	0.97
1:N:380:VAL:CG1	1:N:384:GLN:HG2	1.94	0.97
1:O:27:THR:HG23	1:T:609:ARG:NH1	1.78	0.97
1:T:274:ILE:HG21	1:T:601:THR:CG2	1.92	0.97
3:W:584:GLN:HG2	3:W:621:ASN:HB2	1.47	0.97
1:D:341:MET:HB3	1:D:431:ILE:CD1	1.94	0.97
1:D:609:ARG:NH1	1:E:27:THR:HG23	1.78	0.97
5:I:649:MYR:H101	5:I:649:MYR:H143	1.42	0.97
5:I:649:MYR:H72	1:J:200:CYS:SG	2.03	0.97
1:P:380:VAL:CG1	1:P:384:GLN:HG2	1.94	0.97
4:X:606:MET:HE2	4:Y:718:THR:CG2	1.92	0.97
1:L:609:ARG:NH1	1:M:27:THR:HG23	1.78	0.97
1:N:274:ILE:HG21	1:N:601:THR:CG2	1.92	0.97
4:Y:1150:ASN:HD22	4:Y:1156:THR:HB	1.28	0.97
1:B:369:SER:HG	1:B:443:PHE:HD2	1.12	0.97
5:I:649:MYR:C14	5:I:649:MYR:C10	2.42	0.97
1:B:274:ILE:HG21	1:B:601:THR:CG2	1.92	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:431:ILE:HD13	1:H:437:ILE:HG21	1.43	0.97
1:L:341:MET:HB3	1:L:431:ILE:HD12	1.45	0.97
5:K:649:MYR:H22	1:L:191:LYS:NZ	1.77	0.97
4:X:606:MET:HE2	4:Y:718:THR:HG23	0.99	0.97
1:B:380:VAL:CG1	1:B:384:GLN:HG2	1.94	0.97
1:P:609:ARG:NH1	1:Q:27:THR:HG23	1.78	0.97
1:T:431:ILE:HD13	1:T:437:ILE:HG21	1.43	0.96
4:X:1012:ARG:HH21	4:X:1043:GLY:HA3	1.29	0.96
1:L:380:VAL:CG1	1:L:384:GLN:HG2	1.94	0.96
1:D:50:PRO:HG3	1:D:56:ALA:HB2	1.47	0.96
1:H:297:ALA:HB2	1:H:460:MET:HB2	1.47	0.96
4:Y:410:HIS:HD2	4:Y:411:GLN:N	1.62	0.96
1:A:27:THR:O	1:A:27:THR:HG22	1.64	0.96
1:D:63:ILE:HD13	1:D:63:ILE:N	1.77	0.96
1:F:341:MET:HB3	1:F:431:ILE:CD1	1.94	0.96
1:R:380:VAL:CG1	1:R:384:GLN:HG2	1.94	0.96
1:T:297:ALA:HB2	1:T:460:MET:HB2	1.47	0.96
4:Y:705:ILE:HG21	4:Y:737:ARG:HB2	1.47	0.96
1:H:579:ASN:HD22	1:H:582:LEU:HG	1.28	0.96
4:X:464:SER:HB2	4:Y:500:ILE:HG23	1.47	0.96
4:Y:122:CYS:HB2	4:Y:168:ARG:HH22	1.31	0.96
5:G:649:MYR:H72	1:H:200:CYS:SG	2.04	0.96
1:R:297:ALA:HB2	1:R:460:MET:HB2	1.47	0.96
5:G:649:MYR:H22	1:H:191:LYS:NZ	1.81	0.96
1:F:579:ASN:HD22	1:F:582:LEU:HG	1.28	0.96
1:R:418:ASN:HD21	1:T:337:ARG:HH21	1.13	0.96
4:Y:259:LEU:HD11	4:Y:303:GLN:HG2	1.45	0.96
1:F:341:MET:HB3	1:F:431:ILE:HD12	1.45	0.96
1:J:297:ALA:HB2	1:J:460:MET:HB2	1.47	0.96
5:M:649:MYR:H22	1:N:191:LYS:NZ	1.80	0.96
5:M:649:MYR:C14	5:M:649:MYR:C10	2.42	0.96
1:P:297:ALA:HB2	1:P:460:MET:HB2	1.47	0.96
4:X:368:ILE:HG12	4:X:369:GLY:H	1.29	0.96
1:L:297:ALA:HB2	1:L:460:MET:HB2	1.47	0.95
2:U:35:ARG:HD3	4:X:449:GLU:HG2	1.46	0.95
5:K:649:MYR:H72	1:L:200:CYS:SG	2.06	0.95
1:J:50:PRO:O	2:V:401:ALA:HB2	1.64	0.95
1:K:27:THR:O	1:K:27:THR:HG22	1.64	0.95
1:B:579:ASN:HD22	1:B:582:LEU:HG	1.27	0.95
1:F:297:ALA:HB2	1:F:460:MET:HB2	1.47	0.95
1:P:58:ILE:HG23	1:P:124:GLY:HA2	1.46	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:376:LEU:HD13	4:Y:438:PRO:HB3	1.48	0.95
1:D:341:MET:HB2	1:D:437:ILE:HG23	1.49	0.95
5:Q:649:MYR:H72	1:R:200:CYS:SG	2.06	0.95
1:T:103:CYS:HB3	3:W:407:ALA:HB2	1.44	0.95
3:W:840:CYS:CB	3:W:854:MET:SD	2.54	0.95
4:X:606:MET:HE3	4:Y:718:THR:CG2	1.96	0.95
1:N:297:ALA:HB2	1:N:460:MET:HB2	1.47	0.95
1:O:27:THR:O	1:O:27:THR:HG22	1.64	0.95
1:P:55:VAL:HG11	3:W:348:GLN:NE2	1.81	0.95
1:P:341:MET:HB3	1:P:431:ILE:HD12	1.46	0.95
1:P:337:ARG:HH21	1:T:418:ASN:HD21	1.13	0.95
1:N:341:MET:HB3	1:N:431:ILE:HD12	1.46	0.95
5:Q:649:MYR:C14	5:Q:649:MYR:C10	2.42	0.95
4:X:938:TYR:CZ	4:X:946:VAL:HG21	2.01	0.95
4:Y:1160:GLU:O	4:Y:1160:GLU:HG2	1.67	0.95
1:J:341:MET:HB2	1:J:437:ILE:HG23	1.49	0.95
3:W:358:LEU:HB3	3:W:376:PHE:HB3	1.45	0.95
1:N:92:TRP:CE3	1:N:210:VAL:HG11	2.03	0.94
1:Q:27:THR:O	1:Q:27:THR:HG22	1.64	0.94
1:R:579:ASN:HD22	1:R:582:LEU:HG	1.27	0.94
2:U:245:GLN:HE21	2:U:246:ALA:H	1.10	0.94
1:H:92:TRP:CE3	1:H:210:VAL:HG11	2.02	0.94
5:I:649:MYR:H22	1:J:191:LYS:NZ	1.82	0.94
1:P:92:TRP:CE3	1:P:210:VAL:HG11	2.03	0.94
1:P:341:MET:HB2	1:P:437:ILE:HG23	1.49	0.94
2:U:26:LEU:HA	2:U:71:LEU:HD11	1.49	0.94
4:X:195:ILE:O	4:X:195:ILE:HG22	1.67	0.94
5:C:649:MYR:H22	1:D:191:LYS:NZ	1.82	0.94
1:E:27:THR:HG22	1:E:27:THR:O	1.64	0.94
5:O:649:MYR:H22	1:P:191:LYS:NZ	1.82	0.94
1:R:431:ILE:HD13	1:R:437:ILE:HG21	1.43	0.94
1:S:27:THR:HG22	1:S:27:THR:O	1.64	0.94
4:Y:122:CYS:HB2	4:Y:168:ARG:NH2	1.81	0.94
5:E:649:MYR:H21	1:F:191:LYS:HE2	1.49	0.94
1:L:178:SER:CB	1:Q:3:ASN:ND2	2.30	0.94
1:B:297:ALA:HB2	1:B:460:MET:HB2	1.47	0.94
2:U:198:GLN:HE22	4:X:661:THR:CG2	1.79	0.94
1:F:341:MET:HB2	1:F:437:ILE:HG23	1.49	0.94
1:I:27:THR:O	1:I:27:THR:HG22	1.64	0.94
1:J:369:SER:HG	1:J:443:PHE:HD2	1.11	0.94
1:N:341:MET:HB2	1:N:437:ILE:HG23	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:418:ASN:HD21	1:R:337:ARG:HH21	1.13	0.94
5:E:649:MYR:H72	1:F:200:CYS:SG	2.06	0.94
3:W:1138:MET:HE3	3:W:1225:ASP:HB2	1.48	0.94
1:J:92:TRP:CE3	1:J:210:VAL:HG11	2.03	0.94
1:M:27:THR:HG22	1:M:27:THR:O	1.64	0.94
5:A:649:MYR:H22	1:B:191:LYS:NZ	1.82	0.93
1:B:92:TRP:CE3	1:B:210:VAL:HG11	2.03	0.93
1:G:27:THR:O	1:G:27:THR:HG22	1.64	0.93
3:W:162:SER:HA	3:W:171:THR:HG22	1.50	0.93
1:H:341:MET:HB2	1:H:437:ILE:HG23	1.49	0.93
1:J:549:LEU:HB3	1:L:644:LEU:HD11	1.51	0.93
1:P:58:ILE:CG2	1:P:124:GLY:HA2	1.98	0.93
1:R:628:GLN:HE21	3:W:870:ALA:HA	0.77	0.93
5:S:649:MYR:H22	1:T:191:LYS:HZ3	1.28	0.93
3:W:1037:VAL:HG12	3:W:1039:PRO:HD2	1.47	0.93
1:D:237:GLU:HB2	1:F:46:LYS:NZ	1.83	0.93
1:F:92:TRP:CE3	1:F:210:VAL:HG11	2.03	0.93
1:T:92:TRP:CE3	1:T:210:VAL:HG11	2.02	0.93
2:U:30:ALA:HA	2:U:36:PRO:HB3	1.50	0.93
5:S:649:MYR:C14	5:S:649:MYR:C10	2.42	0.93
5:S:649:MYR:H22	1:T:191:LYS:NZ	1.80	0.93
1:D:46:LYS:NZ	1:H:237:GLU:HB2	1.84	0.93
1:L:92:TRP:CE3	1:L:210:VAL:HG11	2.03	0.93
5:I:649:MYR:H22	1:J:191:LYS:HZ3	1.33	0.93
1:J:418:ASN:HD21	1:L:337:ARG:HH21	1.13	0.93
1:P:369:SER:HG	1:P:443:PHE:HD2	1.13	0.93
5:Q:649:MYR:H21	1:R:191:LYS:HE2	1.49	0.93
1:R:92:TRP:CE3	1:R:210:VAL:HG11	2.03	0.93
1:J:46:LYS:NZ	1:N:237:GLU:HB2	1.84	0.93
1:K:9:ASN:ND2	1:L:206:GLU:HA	1.84	0.93
1:Q:9:ASN:ND2	1:R:206:GLU:HA	1.84	0.93
4:Y:355:LYS:NZ	4:Y:1156:THR:CG2	2.30	0.93
1:D:92:TRP:CE3	1:D:210:VAL:HG11	2.03	0.93
1:I:9:ASN:ND2	1:J:206:GLU:HA	1.84	0.93
1:T:341:MET:HB2	1:T:437:ILE:HG23	1.49	0.93
4:Y:196:GLU:OE1	4:Y:313:LYS:HE2	1.67	0.93
1:L:237:GLU:HB2	1:N:46:LYS:NZ	1.84	0.93
1:L:341:MET:CB	1:L:431:ILE:CD1	2.47	0.93
1:N:341:MET:CB	1:N:431:ILE:CD1	2.47	0.93
1:P:530:ARG:HE	1:T:472:ARG:NH2	1.67	0.93
1:P:549:LEU:HB3	1:R:644:LEU:HD11	1.51	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:1039:PRO:HG2	3:W:1042:THR:HG22	1.49	0.93
4:X:1167:LEU:HD22	4:X:1187:ARG:HH12	1.29	0.93
4:X:1170:PRO:HD2	4:X:1189:THR:HG23	1.46	0.93
1:F:341:MET:CB	1:F:431:ILE:CD1	2.47	0.92
1:R:341:MET:HB2	1:R:437:ILE:HG23	1.49	0.92
1:B:341:MET:HB2	1:B:437:ILE:HG23	1.49	0.92
1:D:337:ARG:HH21	1:H:418:ASN:HD21	1.13	0.92
5:G:649:MYR:C14	5:G:649:MYR:C10	2.42	0.92
1:H:341:MET:CB	1:H:431:ILE:CD1	2.47	0.92
1:J:58:ILE:HG23	1:J:124:GLY:HA2	1.50	0.92
1:J:237:GLU:HB2	1:L:46:LYS:NZ	1.83	0.92
1:R:237:GLU:HB2	1:T:46:LYS:NZ	1.84	0.92
1:L:341:MET:HB2	1:L:437:ILE:HG23	1.49	0.92
1:R:341:MET:CB	1:R:431:ILE:CD1	2.47	0.92
5:A:649:MYR:C14	5:A:649:MYR:C10	2.42	0.92
1:E:9:ASN:ND2	1:F:206:GLU:HA	1.84	0.92
5:O:649:MYR:C14	5:O:649:MYR:C10	2.42	0.92
1:P:341:MET:CB	1:P:431:ILE:CD1	2.47	0.92
4:Y:209:ASN:HD22	4:Y:242:ARG:HG3	1.33	0.92
1:J:49:ARG:HH12	1:J:115:THR:HG22	1.30	0.92
1:J:337:ARG:HH21	1:N:418:ASN:HD21	1.13	0.92
1:J:49:ARG:HH12	1:J:115:THR:CG2	1.81	0.92
1:T:101:THR:HA	3:W:406:ASN:HB2	1.48	0.92
2:U:182:ILE:HG21	2:U:279:VAL:HG23	1.50	0.92
1:B:341:MET:CB	1:B:431:ILE:CD1	2.47	0.92
1:R:346:ASP:HB3	1:R:428:ARG:H	1.35	0.92
1:T:341:MET:CB	1:T:431:ILE:CD1	2.47	0.92
4:X:1078:LEU:HD23	4:X:1078:LEU:H	1.35	0.92
1:J:428:ARG:HG2	1:J:428:ARG:HH11	1.35	0.92
1:L:418:ASN:HD21	1:N:337:ARG:HH21	1.13	0.92
1:L:428:ARG:HG2	1:L:428:ARG:HH11	1.35	0.92
1:P:46:LYS:NZ	1:T:237:GLU:HB2	1.84	0.92
1:P:644:LEU:HD11	1:T:549:LEU:HB3	1.51	0.92
2:U:93:ARG:HB3	2:U:93:ARG:HH11	1.34	0.92
1:D:549:LEU:HB3	1:F:644:LEU:HD11	1.50	0.92
1:F:237:GLU:HB2	1:H:46:LYS:NZ	1.83	0.92
1:F:428:ARG:HG2	1:F:428:ARG:HH11	1.35	0.92
1:P:237:GLU:HB2	1:R:46:LYS:NZ	1.84	0.92
1:D:341:MET:CB	1:D:431:ILE:CD1	2.47	0.92
1:J:341:MET:CB	1:J:431:ILE:CD1	2.47	0.92
4:X:594:ALA:HA	4:X:608:GLN:HE22	1.33	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:656:PHE:HE2	4:X:675:MET:HB2	1.35	0.92
1:D:644:LEU:HD11	1:H:549:LEU:HB3	1.51	0.91
4:X:437:ARG:NH2	4:X:1207:ILE:HA	1.85	0.91
1:H:346:ASP:HB3	1:H:428:ARG:H	1.35	0.91
5:Q:649:MYR:H22	1:R:191:LYS:HZ3	1.29	0.91
1:A:9:ASN:ND2	1:B:206:GLU:HA	1.84	0.91
1:D:297:ALA:HB2	1:D:460:MET:HB2	1.47	0.91
5:K:649:MYR:H21	1:L:191:LYS:HE2	1.49	0.91
1:T:271:LEU:HG	1:T:517:LEU:HB2	1.52	0.91
3:W:839:GLU:HB3	3:W:861:ALA:HB3	1.50	0.91
1:D:346:ASP:HB3	1:D:428:ARG:H	1.35	0.91
1:O:9:ASN:ND2	1:P:206:GLU:HA	1.84	0.91
1:C:9:ASN:ND2	1:D:206:GLU:HA	1.84	0.91
1:D:271:LEU:HG	1:D:517:LEU:HB2	1.53	0.91
1:J:644:LEU:HD11	1:N:549:LEU:HB3	1.51	0.91
1:T:103:CYS:HB3	3:W:407:ALA:CB	2.01	0.91
1:L:271:LEU:HG	1:L:517:LEU:HB2	1.53	0.91
1:R:428:ARG:HG2	1:R:428:ARG:HH11	1.35	0.91
4:Y:122:CYS:SG	4:Y:140:HIS:HE1	1.92	0.91
3:W:436:GLY:HA3	3:W:1009:ASN:HA	1.53	0.91
1:R:271:LEU:HG	1:R:517:LEU:HB2	1.53	0.91
1:B:346:ASP:HB3	1:B:428:ARG:H	1.35	0.90
1:H:271:LEU:HG	1:H:517:LEU:HB2	1.52	0.90
1:J:346:ASP:HB3	1:J:428:ARG:H	1.35	0.90
1:P:428:ARG:HG2	1:P:428:ARG:HH11	1.35	0.90
3:W:1154:ARG:HD2	3:W:1189:ASN:HD22	1.36	0.90
1:B:428:ARG:HG2	1:B:428:ARG:HH11	1.35	0.90
1:T:346:ASP:HB3	1:T:428:ARG:H	1.35	0.90
1:F:549:LEU:HB3	1:H:644:LEU:HD11	1.51	0.90
1:N:346:ASP:HB3	1:N:428:ARG:H	1.35	0.90
5:E:649:MYR:C14	5:E:649:MYR:C10	2.42	0.90
1:F:346:ASP:HB3	1:F:428:ARG:H	1.35	0.90
1:L:346:ASP:HB3	1:L:428:ARG:H	1.35	0.90
1:L:549:LEU:HB3	1:N:644:LEU:HD11	1.51	0.90
5:A:649:MYR:C7	1:B:200:CYS:SG	2.60	0.90
1:R:472:ARG:HH21	1:T:530:ARG:HE	0.93	0.90
1:B:450:SER:HA	1:B:453:ASN:HD22	1.37	0.90
5:C:649:MYR:C14	5:C:649:MYR:C10	2.42	0.90
1:T:450:SER:HA	1:T:453:ASN:HD22	1.37	0.90
1:F:418:ASN:HD21	1:H:337:ARG:HH21	1.13	0.90
1:J:121:ALA:HB2	1:N:87:PHE:CE1	2.07	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:428:ARG:HG2	1:N:428:ARG:HH11	1.35	0.90
3:W:740:VAL:HG21	3:W:770:ARG:CZ	2.02	0.90
3:W:1238:ARG:HG2	3:W:1288:THR:HG22	1.54	0.90
4:X:416:ILE:HG22	4:X:445:PHE:CZ	2.07	0.90
1:D:238:VAL:HA	1:F:142:ILE:CD1	2.00	0.90
3:W:167:ASP:HB2	3:W:212:ALA:HB1	1.52	0.90
5:Q:649:MYR:H31	1:R:191:LYS:HG3	1.54	0.90
5:S:649:MYR:H21	1:T:191:LYS:HE2	1.54	0.90
2:U:198:GLN:NE2	4:X:661:THR:HG22	1.87	0.90
4:X:1066:MET:HB3	4:X:1072:THR:HG21	1.54	0.90
1:D:87:PHE:CE1	1:F:121:ALA:HB2	2.07	0.89
1:L:450:SER:HA	1:L:453:ASN:HD22	1.37	0.89
5:O:649:MYR:C7	1:P:200:CYS:SG	2.60	0.89
4:X:416:ILE:HG22	4:X:445:PHE:CE2	2.08	0.89
5:K:649:MYR:C14	5:K:649:MYR:C10	2.42	0.89
1:P:346:ASP:HB3	1:P:428:ARG:H	1.35	0.89
1:R:549:LEU:HB3	1:T:644:LEU:HD11	1.51	0.89
4:Y:40:ASN:HB3	4:Y:66:SER:HB3	1.54	0.89
4:Y:996:MET:HA	4:Y:996:MET:CE	2.02	0.89
1:J:271:LEU:HG	1:J:517:LEU:HB2	1.53	0.89
1:L:87:PHE:CE1	1:N:121:ALA:HB2	2.07	0.89
5:M:649:MYR:H21	1:N:191:LYS:HE2	1.54	0.89
1:D:428:ARG:HG2	1:D:428:ARG:HH11	1.35	0.89
1:H:428:ARG:HG2	1:H:428:ARG:HH11	1.35	0.89
1:I:27:THR:HG23	1:N:609:ARG:HH11	1.37	0.89
1:N:271:LEU:HG	1:N:517:LEU:HB2	1.52	0.89
1:P:412:ARG:HH22	1:R:356:THR:CG2	1.86	0.89
1:D:152:ARG:HA	1:D:152:ARG:HH11	1.35	0.89
1:H:450:SER:HA	1:H:453:ASN:HD22	1.37	0.89
5:K:649:MYR:H31	1:L:191:LYS:HG3	1.54	0.89
1:R:609:ARG:HH11	1:S:27:THR:HG23	1.37	0.89
3:W:687:ALA:HB1	3:W:996:ASP:HA	1.54	0.89
4:Y:117:TYR:HB3	4:Y:132:LEU:HD22	1.51	0.89
4:Y:979:ARG:HG3	4:Y:1140:GLU:HG3	1.53	0.89
1:J:87:PHE:CE1	1:L:121:ALA:HB2	2.07	0.89
1:B:271:LEU:HG	1:B:517:LEU:HB2	1.53	0.89
1:P:60:SER:O	3:W:379:VAL:HG21	1.72	0.89
4:X:786:ALA:HB2	4:X:804:HIS:CD2	2.08	0.89
5:I:649:MYR:C7	1:J:200:CYS:SG	2.60	0.89
4:X:453:LEU:HD23	4:X:861:ARG:HA	1.54	0.89
4:Y:988:ALA:HA	4:Y:1133:VAL:HG12	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:1170:PRO:HD2	4:Y:1189:THR:HG23	1.52	0.89
1:F:87:PHE:CE1	1:H:121:ALA:HB2	2.07	0.89
1:F:271:LEU:HG	1:F:517:LEU:HB2	1.53	0.89
1:R:87:PHE:CE1	1:T:121:ALA:HB2	2.07	0.89
1:R:412:ARG:HH22	1:T:356:THR:CG2	1.86	0.89
1:R:450:SER:HA	1:R:453:ASN:HD22	1.37	0.89
3:W:818:PHE:HE2	3:W:989:HIS:ND1	1.71	0.89
4:X:1130:ALA:HB2	4:Y:104:GLN:CB	2.02	0.89
4:Y:902:MET:CG	4:Y:924:ALA:HB2	2.02	0.89
1:P:530:ARG:NE	1:T:472:ARG:HH21	1.71	0.89
3:W:840:CYS:SG	3:W:854:MET:HG3	2.13	0.89
4:Y:198:THR:HG22	4:Y:313:LYS:HB3	1.53	0.89
4:Y:743:THR:HG22	4:Y:825:GLY:HA3	1.55	0.89
5:C:649:MYR:C7	1:D:200:CYS:SG	2.60	0.88
1:D:356:THR:CG2	1:H:412:ARG:HH22	1.86	0.88
1:D:450:SER:HA	1:D:453:ASN:HD22	1.37	0.88
1:L:412:ARG:HH22	1:N:356:THR:CG2	1.86	0.88
1:P:87:PHE:CE1	1:R:121:ALA:HB2	2.07	0.88
1:P:161:LYS:HZ1	1:T:531:THR:HB	1.34	0.88
1:T:428:ARG:HG2	1:T:428:ARG:HH11	1.35	0.88
3:W:114:ASN:HB3	3:W:117:VAL:HG12	1.52	0.88
4:X:237:GLU:HA	4:X:1151:ALA:CB	2.03	0.88
1:P:356:THR:CG2	1:T:412:ARG:HH22	1.86	0.88
1:D:418:ASN:HD21	1:F:337:ARG:HH21	1.13	0.88
1:F:412:ARG:HH22	1:H:356:THR:CG2	1.86	0.88
1:F:450:SER:HA	1:F:453:ASN:HD22	1.37	0.88
4:X:1012:ARG:HD3	4:X:1012:ARG:N	1.87	0.88
1:R:548:LYS:HG3	1:T:645:TRP:CZ2	2.08	0.88
4:X:206:LEU:H	4:X:206:LEU:HD22	1.36	0.88
1:R:472:ARG:HH21	1:T:530:ARG:NE	1.70	0.88
3:W:819:ILE:HD11	3:W:896:ILE:HD12	1.54	0.88
3:W:1139:PRO:HG2	3:W:1144:LEU:HD12	1.52	0.88
4:X:801:ARG:HB2	4:X:801:ARG:NH1	1.88	0.88
1:D:548:LYS:HG3	1:F:645:TRP:CZ2	2.08	0.88
5:S:649:MYR:C7	1:T:200:CYS:SG	2.62	0.88
3:W:1074:THR:CG2	3:W:1075:PRO:HD2	2.03	0.88
4:Y:902:MET:HG2	4:Y:924:ALA:HB2	1.54	0.88
5:A:649:MYR:H21	1:B:191:LYS:HE2	1.55	0.88
1:D:53:THR:HG22	1:D:54:SER:N	1.86	0.88
1:J:645:TRP:CZ2	1:N:548:LYS:HG3	2.08	0.88
1:P:121:ALA:HB2	1:T:87:PHE:CE1	2.07	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:548:LYS:HG3	1:R:645:TRP:CZ2	2.08	0.88
1:D:412:ARG:HH22	1:F:356:THR:CG2	1.86	0.88
1:F:435:PRO:CG	1:N:436:TYR:OH	2.21	0.88
1:J:548:LYS:HG3	1:L:645:TRP:CZ2	2.09	0.88
1:N:450:SER:HA	1:N:453:ASN:HD22	1.37	0.88
1:P:271:LEU:HG	1:P:517:LEU:HB2	1.53	0.88
1:P:645:TRP:CZ2	1:T:548:LYS:HG3	2.08	0.88
1:R:287:PRO:HB3	1:R:509:LEU:HD21	1.56	0.88
4:Y:842:ALA:HB3	4:Y:843:PRO:HD3	1.54	0.88
1:J:412:ARG:HH22	1:L:356:THR:CG2	1.86	0.88
1:J:450:SER:HA	1:J:453:ASN:HD22	1.37	0.88
1:L:548:LYS:HG3	1:N:645:TRP:CZ2	2.08	0.88
1:N:294:TYR:OH	1:N:502:LEU:HA	1.74	0.88
3:W:592:MET:H	3:W:593:PRO:HD2	1.39	0.88
4:X:655:GLU:CD	4:X:655:GLU:H	1.81	0.88
1:F:548:LYS:HG3	1:H:645:TRP:CZ2	2.08	0.88
3:W:1177:ASN:HB2	3:W:1282:THR:HB	1.55	0.88
4:X:937:ALA:HB2	4:X:947:ARG:HA	1.54	0.88
1:D:645:TRP:CZ2	1:H:548:LYS:HG3	2.08	0.87
1:F:294:TYR:OH	1:F:502:LEU:HA	1.74	0.87
5:G:649:MYR:H21	1:H:191:LYS:HE2	1.54	0.87
1:T:167:MET:HA	1:T:167:MET:HE3	1.56	0.87
3:W:458:VAL:HG21	3:W:679:LEU:HG	1.54	0.87
1:D:121:ALA:HB2	1:H:87:PHE:CE1	2.07	0.87
2:U:27:GLN:HG2	4:X:880:LEU:CB	2.01	0.87
1:D:294:TYR:OH	1:D:502:LEU:HA	1.74	0.87
5:E:649:MYR:H31	1:F:191:LYS:HG3	1.54	0.87
1:H:294:TYR:OH	1:H:502:LEU:HA	1.74	0.87
1:J:356:THR:CG2	1:N:412:ARG:HH22	1.86	0.87
5:M:649:MYR:C7	1:N:200:CYS:SG	2.62	0.87
1:P:294:TYR:OH	1:P:502:LEU:HA	1.74	0.87
1:P:450:SER:HA	1:P:453:ASN:HD22	1.37	0.87
1:B:294:TYR:OH	1:B:502:LEU:HA	1.74	0.87
5:C:649:MYR:H21	1:D:191:LYS:HE2	1.55	0.87
1:H:287:PRO:HB3	1:H:509:LEU:HD21	1.57	0.87
1:J:287:PRO:HB3	1:J:509:LEU:HD21	1.56	0.87
1:J:337:ARG:HH21	1:N:418:ASN:ND2	1.73	0.87
1:J:418:ASN:ND2	1:L:337:ARG:HH21	1.73	0.87
1:P:354:SER:CB	1:P:419:MET:HA	2.05	0.87
4:X:746:TYR:HA	4:X:750:MET:CE	2.05	0.87
4:Y:158:ARG:HG3	4:Y:1205:ASP:HB3	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:649:MYR:C7	1:H:200:CYS:SG	2.62	0.87
1:J:298:PHE:CE2	1:N:355:GLY:HA2	2.10	0.87
1:N:354:SER:CB	1:N:419:MET:HA	2.05	0.87
1:R:418:ASN:ND2	1:T:337:ARG:HH21	1.73	0.87
4:X:189:ASN:HD21	4:X:915:LEU:HA	1.38	0.87
1:J:354:SER:CB	1:J:419:MET:HA	2.05	0.87
1:P:161:LYS:HZ2	1:T:531:THR:HB	1.40	0.87
1:R:354:SER:CB	1:R:419:MET:HA	2.05	0.87
3:W:766:LEU:HD13	3:W:841:ARG:HH22	1.40	0.87
1:B:287:PRO:HB3	1:B:509:LEU:HD21	1.56	0.87
1:D:418:ASN:ND2	1:F:337:ARG:HH21	1.73	0.87
1:F:355:GLY:HA2	1:H:298:PHE:CE2	2.10	0.87
1:F:409:ILE:CD1	1:H:297:ALA:O	2.23	0.87
1:J:609:ARG:HH11	1:K:27:THR:HG23	1.37	0.87
1:L:167:MET:HA	1:L:167:MET:HE3	1.56	0.87
1:T:354:SER:CB	1:T:419:MET:HA	2.05	0.87
2:V:192:PHE:CB	4:Y:376:LEU:HD21	2.05	0.87
4:X:682:GLN:HG3	4:X:683:PRO:HD2	1.57	0.87
1:D:287:PRO:HB3	1:D:509:LEU:HD21	1.56	0.87
4:Y:277:VAL:HG12	4:Y:278:LEU:HG	1.56	0.87
4:Y:1103:TRP:CD1	4:Y:1113:PRO:HG2	2.10	0.87
1:D:309:GLU:OE1	1:D:335:PRO:HB3	1.75	0.86
1:D:354:SER:CB	1:D:419:MET:HA	2.05	0.86
1:P:409:ILE:CD1	1:R:297:ALA:O	2.23	0.86
5:I:649:MYR:H21	1:J:191:LYS:HE2	1.55	0.86
1:J:167:MET:HA	1:J:167:MET:HE3	1.56	0.86
1:L:309:GLU:OE1	1:L:335:PRO:HB3	1.76	0.86
1:L:609:ARG:CB	1:M:29:THR:HG22	2.05	0.86
1:R:344:MET:HE2	1:R:502:LEU:HD11	1.58	0.86
4:X:594:ALA:HA	4:X:608:GLN:NE2	1.90	0.86
4:Y:737:ARG:HG2	4:Y:737:ARG:HH21	1.41	0.86
1:D:344:MET:HE2	1:D:502:LEU:HD11	1.57	0.86
1:D:409:ILE:CD1	1:F:297:ALA:O	2.23	0.86
1:F:344:MET:HE2	1:F:502:LEU:HD11	1.58	0.86
1:F:418:ASN:ND2	1:H:337:ARG:HH21	1.73	0.86
1:F:609:ARG:HH11	1:G:27:THR:HG23	1.37	0.86
1:L:418:ASN:ND2	1:N:337:ARG:HH21	1.73	0.86
1:N:167:MET:HA	1:N:167:MET:HE3	1.56	0.86
1:R:355:GLY:HA2	1:T:298:PHE:CE2	2.10	0.86
3:W:836:THR:HG21	3:W:854:MET:HB2	1.57	0.86
1:J:491:ALA:HB2	1:J:592:THR:HB	1.58	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:355:GLY:HA2	1:R:298:PHE:CE2	2.10	0.86
4:X:250:ALA:HB1	4:X:339:LEU:HD11	1.55	0.86
1:C:27:THR:HG23	1:H:609:ARG:HH11	1.37	0.86
1:D:297:ALA:O	1:H:409:ILE:CD1	2.23	0.86
1:I:29:THR:HG22	1:N:609:ARG:CB	2.06	0.86
1:L:354:SER:CB	1:L:419:MET:HA	2.05	0.86
1:L:355:GLY:HA2	1:N:298:PHE:CE2	2.10	0.86
1:N:287:PRO:HB3	1:N:509:LEU:HD21	1.56	0.86
1:P:309:GLU:OE1	1:P:335:PRO:HB3	1.76	0.86
1:B:354:SER:CB	1:B:419:MET:HA	2.05	0.86
1:F:287:PRO:HB3	1:F:509:LEU:HD21	1.56	0.86
1:F:309:GLU:OE1	1:F:335:PRO:HB3	1.76	0.86
5:G:649:MYR:H31	1:H:191:LYS:HG3	1.58	0.86
1:H:344:MET:HE2	1:H:502:LEU:HD11	1.57	0.86
1:J:297:ALA:O	1:N:409:ILE:CD1	2.23	0.86
1:P:337:ARG:HH21	1:T:418:ASN:ND2	1.73	0.86
2:U:22:ASP:HB2	2:U:383:ARG:HD3	1.55	0.86
1:C:29:THR:HG22	1:H:609:ARG:CB	2.05	0.86
1:D:68:PHE:HB3	1:D:140:VAL:CG1	2.05	0.86
1:D:298:PHE:CE2	1:H:355:GLY:HA2	2.10	0.86
1:D:337:ARG:HH21	1:H:418:ASN:ND2	1.73	0.86
1:F:167:MET:HA	1:F:167:MET:HE3	1.56	0.86
1:L:409:ILE:CD1	1:N:297:ALA:O	2.23	0.86
1:P:49:ARG:HH12	1:P:115:THR:HG22	1.41	0.86
1:P:287:PRO:HB3	1:P:509:LEU:HD21	1.56	0.86
1:T:294:TYR:OH	1:T:502:LEU:HA	1.74	0.86
4:X:620:VAL:HG11	4:Y:718:THR:HG21	1.57	0.86
4:Y:419:ILE:HD11	4:Y:662:LEU:HB2	1.58	0.86
1:B:491:ALA:HB2	1:B:592:THR:HB	1.58	0.86
1:P:491:ALA:HB2	1:P:592:THR:HB	1.58	0.86
5:S:649:MYR:H31	1:T:191:LYS:HG3	1.58	0.86
3:W:618:LEU:HD13	3:W:619:LYS:N	1.90	0.86
4:Y:1154:ILE:HD12	4:Y:1154:ILE:O	1.76	0.86
1:D:355:GLY:HA2	1:F:298:PHE:CE2	2.10	0.85
1:D:491:ALA:HB2	1:D:592:THR:HB	1.58	0.85
1:H:309:GLU:OE1	1:H:335:PRO:HB3	1.76	0.85
1:H:494:THR:H	1:H:497:GLU:HB3	1.41	0.85
1:J:294:TYR:OH	1:J:502:LEU:HA	1.74	0.85
1:J:309:GLU:OE1	1:J:335:PRO:HB3	1.75	0.85
1:J:409:ILE:CD1	1:L:297:ALA:O	2.23	0.85
1:L:625:ARG:HG3	1:R:197:ASP:OD1	1.76	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:167:MET:HA	1:P:167:MET:HE3	1.56	0.85
1:T:309:GLU:OE1	1:T:335:PRO:HB3	1.75	0.85
1:T:494:THR:H	1:T:497:GLU:HB3	1.41	0.85
4:Y:367:ARG:O	4:Y:388:MET:HG2	1.76	0.85
4:Y:1093:SER:OG	4:Y:1130:ALA:HB1	1.76	0.85
1:H:58:ILE:HG23	1:H:124:GLY:HA2	1.59	0.85
1:J:435:PRO:HG2	1:T:436:TYR:OH	1.75	0.85
1:L:609:ARG:HH11	1:M:27:THR:HG23	1.37	0.85
1:P:57:THR:O	1:P:57:THR:HG22	1.76	0.85
1:R:628:GLN:NE2	3:W:870:ALA:CA	2.32	0.85
4:X:1012:ARG:H	4:X:1012:ARG:CD	1.88	0.85
4:X:1149:THR:CG2	4:X:1162:ALA:H	1.89	0.85
1:D:609:ARG:HH11	1:E:27:THR:HG23	1.37	0.85
5:E:649:MYR:C7	1:F:200:CYS:SG	2.65	0.85
1:F:436:TYR:OH	1:N:435:PRO:HG2	1.76	0.85
1:J:344:MET:HE2	1:J:502:LEU:HD11	1.57	0.85
1:P:298:PHE:CE2	1:T:355:GLY:HA2	2.10	0.85
1:P:472:ARG:NH1	1:R:530:ARG:CG	2.38	0.85
1:R:609:ARG:CB	1:S:29:THR:HG22	2.05	0.85
3:W:103:TYR:HB3	3:W:108:ASN:HD21	1.39	0.85
1:F:609:ARG:CB	1:G:29:THR:HG22	2.06	0.85
1:J:355:GLY:HA2	1:L:298:PHE:CE2	2.10	0.85
1:L:294:TYR:OH	1:L:502:LEU:HA	1.74	0.85
1:R:494:THR:H	1:R:497:GLU:HB3	1.42	0.85
1:D:46:LYS:HZ3	1:H:237:GLU:CD	1.85	0.85
1:H:167:MET:HA	1:H:167:MET:HE3	1.56	0.85
1:H:354:SER:CB	1:H:419:MET:HA	2.05	0.85
1:R:49:ARG:HH12	1:R:115:THR:HG22	1.41	0.85
1:R:294:TYR:OH	1:R:502:LEU:HA	1.74	0.85
1:R:409:ILE:CD1	1:T:297:ALA:O	2.23	0.85
4:X:1130:ALA:HB2	4:Y:104:GLN:HG3	1.57	0.85
5:K:649:MYR:C7	1:L:200:CYS:SG	2.65	0.85
1:R:309:GLU:OE1	1:R:335:PRO:HB3	1.76	0.85
1:T:287:PRO:HB3	1:T:509:LEU:HD21	1.56	0.85
3:W:246:ASP:HB3	3:W:256:SER:HA	1.56	0.85
3:W:735:LEU:HD21	3:W:759:ILE:O	1.75	0.85
4:Y:599:ILE:HD12	4:Y:631:ILE:HG23	1.59	0.85
1:F:354:SER:CB	1:F:419:MET:HA	2.05	0.85
1:J:84:LYS:HD3	1:K:39:GLY:O	1.77	0.85
1:N:344:MET:HE2	1:N:502:LEU:HD11	1.57	0.85
1:O:29:THR:HG22	1:T:609:ARG:CB	2.06	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:O:649:MYR:H21	1:P:191:LYS:HE2	1.55	0.85
1:P:84:LYS:HD3	1:Q:39:GLY:O	1.77	0.85
1:R:491:ALA:HB2	1:R:592:THR:HB	1.58	0.85
3:W:810:LEU:HD23	3:W:1001:ILE:HD13	1.57	0.85
1:L:58:ILE:HG23	1:L:124:GLY:HA2	1.59	0.85
1:N:309:GLU:OE1	1:N:335:PRO:HB3	1.76	0.85
1:P:154:ARG:HB3	1:P:154:ARG:NH1	1.92	0.85
1:P:297:ALA:O	1:T:409:ILE:CD1	2.23	0.85
5:Q:649:MYR:C7	1:R:200:CYS:SG	2.64	0.85
1:R:167:MET:HA	1:R:167:MET:HE3	1.56	0.85
1:B:167:MET:HA	1:B:167:MET:HE3	1.56	0.85
1:C:39:GLY:O	1:H:84:LYS:HD3	1.77	0.85
1:I:21:THR:HG23	1:J:219:LYS:HE2	1.59	0.85
1:J:92:TRP:CD1	1:J:156:VAL:HG21	2.12	0.85
1:J:609:ARG:CB	1:K:29:THR:HG22	2.06	0.85
1:L:494:THR:H	1:L:497:GLU:HB3	1.42	0.85
1:Q:21:THR:HG23	1:R:219:LYS:HE2	1.59	0.85
1:T:344:MET:HE2	1:T:502:LEU:HD11	1.57	0.85
4:X:1130:ALA:HB2	4:Y:104:GLN:CG	2.07	0.85
1:F:49:ARG:HH12	1:F:115:THR:HG22	1.41	0.85
1:H:49:ARG:HH12	1:H:115:THR:HG22	1.41	0.85
1:H:154:ARG:HB3	1:H:154:ARG:NH1	1.92	0.85
1:L:287:PRO:HB3	1:L:509:LEU:HD21	1.56	0.85
1:T:49:ARG:HH12	1:T:115:THR:HG22	1.41	0.85
4:Y:410:HIS:CD2	4:Y:411:GLN:N	2.44	0.85
1:F:494:THR:H	1:F:497:GLU:HB3	1.42	0.84
1:K:28:SER:HB3	1:L:216:PRO:HD2	1.59	0.84
1:N:92:TRP:CD1	1:N:156:VAL:HG21	2.12	0.84
1:N:491:ALA:HB2	1:N:592:THR:HB	1.58	0.84
1:P:418:ASN:ND2	1:R:337:ARG:HH21	1.73	0.84
4:X:455:GLN:OE1	4:X:455:GLN:HA	1.75	0.84
1:F:58:ILE:HG23	1:F:124:GLY:HA2	1.59	0.84
1:K:21:THR:HG23	1:L:219:LYS:HE2	1.59	0.84
1:L:491:ALA:HB2	1:L:592:THR:HB	1.58	0.84
1:P:92:TRP:CD1	1:P:156:VAL:HG21	2.12	0.84
1:R:92:TRP:CD1	1:R:156:VAL:HG21	2.12	0.84
4:X:1090:PRO:O	4:X:1129:THR:HG23	1.75	0.84
1:C:28:SER:HB3	1:D:216:PRO:HD2	1.59	0.84
1:H:491:ALA:HB2	1:H:592:THR:HB	1.58	0.84
1:J:154:ARG:HB3	1:J:154:ARG:NH1	1.92	0.84
1:P:472:ARG:HH12	1:R:530:ARG:CG	1.90	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:424:SER:HB3	3:W:425:PRO:HD3	1.57	0.84
4:Y:995:PRO:HD2	4:Y:1119:ILE:HG12	1.58	0.84
1:B:344:MET:HE2	1:B:502:LEU:HD11	1.57	0.84
1:D:494:THR:H	1:D:497:GLU:HB3	1.42	0.84
1:F:154:ARG:NH1	1:F:154:ARG:HB3	1.92	0.84
1:O:39:GLY:O	1:T:84:LYS:HD3	1.77	0.84
1:P:472:ARG:HH12	1:R:530:ARG:HG3	1.41	0.84
4:X:528:PHE:CE1	4:X:575:MET:HE2	2.12	0.84
4:X:656:PHE:CE2	4:X:675:MET:HB2	2.13	0.84
1:B:494:THR:H	1:B:497:GLU:HB3	1.41	0.84
1:D:154:ARG:HB3	1:D:154:ARG:NH1	1.92	0.84
1:L:92:TRP:CD1	1:L:156:VAL:HG21	2.12	0.84
1:N:494:THR:H	1:N:497:GLU:HB3	1.42	0.84
3:W:625:ARG:HG2	3:W:625:ARG:HH11	1.42	0.84
1:D:92:TRP:CD1	1:D:156:VAL:HG21	2.12	0.84
1:F:491:ALA:HB2	1:F:592:THR:HB	1.58	0.84
5:I:649:MYR:H31	1:J:191:LYS:HG3	1.60	0.84
1:L:344:MET:HE2	1:L:502:LEU:HD11	1.57	0.84
1:N:49:ARG:HH12	1:N:115:THR:HG22	1.41	0.84
1:P:203:TYR:HB3	1:P:206:GLU:HB3	1.60	0.84
1:P:609:ARG:CB	1:Q:29:THR:HG22	2.06	0.84
1:R:58:ILE:HG23	1:R:124:GLY:HA2	1.59	0.84
1:R:154:ARG:HB3	1:R:154:ARG:NH1	1.92	0.84
3:W:832:LEU:HB3	3:W:890:CYS:SG	2.17	0.84
4:X:827:THR:HG22	4:X:828:GLU:N	1.92	0.84
1:C:21:THR:HG23	1:D:219:LYS:HE2	1.59	0.84
1:P:609:ARG:HH11	1:Q:27:THR:HG23	1.37	0.84
3:W:497:LEU:HD11	3:W:617:VAL:HG21	1.60	0.84
1:D:58:ILE:H	1:D:58:ILE:HD12	1.39	0.84
1:D:358:LEU:HD22	1:D:417:PHE:CD2	2.13	0.84
1:D:609:ARG:CB	1:E:29:THR:HG22	2.06	0.84
1:E:28:SER:HB3	1:F:216:PRO:HD2	1.59	0.84
1:N:154:ARG:NH1	1:N:154:ARG:HB3	1.92	0.84
2:U:198:GLN:NE2	4:X:661:THR:CG2	2.40	0.84
4:X:616:SER:HB3	4:Y:723:ASP:HB2	0.90	0.84
4:X:787:ARG:HE	4:X:925:LEU:HD13	1.43	0.84
4:Y:1122:PRO:HA	4:Y:1159:GLY:HA3	1.60	0.84
1:B:203:TYR:HB3	1:B:206:GLU:HB3	1.60	0.84
1:B:309:GLU:OE1	1:B:335:PRO:HB3	1.75	0.84
1:B:358:LEU:HD22	1:B:417:PHE:CD2	2.13	0.84
1:E:21:THR:HG23	1:F:219:LYS:HE2	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:154:ARG:HB3	1:L:154:ARG:NH1	1.92	0.84
1:T:58:ILE:HG23	1:T:124:GLY:HA2	1.58	0.84
1:F:92:TRP:CD1	1:F:156:VAL:HG21	2.12	0.84
1:F:358:LEU:HD22	1:F:417:PHE:CD2	2.13	0.84
5:M:649:MYR:H31	1:N:191:LYS:HG3	1.58	0.84
1:T:491:ALA:HB2	1:T:592:THR:HB	1.58	0.84
4:X:1106:LYS:HB3	4:X:1113:PRO:HG2	1.60	0.84
1:B:58:ILE:HG23	1:B:124:GLY:HA2	1.59	0.83
1:J:203:TYR:HB3	1:J:206:GLU:HB3	1.60	0.83
1:N:358:LEU:HD22	1:N:417:PHE:CD2	2.13	0.83
1:P:494:THR:H	1:P:497:GLU:HB3	1.41	0.83
1:S:28:SER:HB3	1:T:216:PRO:HD2	1.59	0.83
4:X:705:ILE:HG21	4:X:737:ARG:HB3	1.57	0.83
5:A:649:MYR:H31	1:B:191:LYS:HG3	1.60	0.83
1:D:50:PRO:HA	1:D:61:LEU:HA	1.59	0.83
1:D:167:MET:HA	1:D:167:MET:HE3	1.56	0.83
1:O:21:THR:HG23	1:P:219:LYS:HE2	1.59	0.83
1:P:344:MET:HE2	1:P:502:LEU:HD11	1.57	0.83
1:S:21:THR:HG23	1:T:219:LYS:HE2	1.59	0.83
1:A:21:THR:HG23	1:B:219:LYS:HE2	1.59	0.83
1:D:57:THR:O	1:D:60:SER:HB3	1.78	0.83
1:N:58:ILE:HG23	1:N:124:GLY:HA2	1.58	0.83
1:O:28:SER:HB3	1:P:216:PRO:HD2	1.60	0.83
3:W:5:PHE:HA	3:W:344:GLY:HA3	1.60	0.83
4:X:277:VAL:HG13	4:X:278:LEU:HD13	1.60	0.83
4:X:782:ASN:OD1	4:X:806:THR:HG21	1.77	0.83
4:X:1032:ILE:HD13	4:X:1038:PRO:HB3	1.60	0.83
1:D:360:TYR:HB2	1:D:367:SER:HB2	1.61	0.83
1:L:358:LEU:HD22	1:L:417:PHE:CD2	2.13	0.83
1:N:360:TYR:HB2	1:N:367:SER:HB2	1.61	0.83
1:B:92:TRP:CD1	1:B:156:VAL:HG21	2.12	0.83
1:B:154:ARG:HB3	1:B:154:ARG:NH1	1.92	0.83
1:H:92:TRP:CD1	1:H:156:VAL:HG21	2.12	0.83
1:T:92:TRP:CD1	1:T:156:VAL:HG21	2.12	0.83
1:J:237:GLU:HG3	1:L:142:ILE:CD1	2.08	0.83
1:P:530:ARG:HE	1:T:472:ARG:HH21	0.86	0.83
4:X:1182:ASN:ND2	4:X:1184:LEU:HB2	1.94	0.83
5:C:649:MYR:H31	1:D:191:LYS:HG3	1.60	0.83
1:F:291:PRO:HB2	1:F:467:THR:CG2	2.09	0.83
4:Y:210:ILE:HB	4:Y:239:ALA:HB3	1.60	0.83
1:H:203:TYR:HB3	1:H:206:GLU:HB3	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:360:TYR:HB2	1:H:367:SER:HB2	1.61	0.83
1:J:358:LEU:HD22	1:J:417:PHE:CD2	2.13	0.83
1:P:59:ASP:O	3:W:379:VAL:CG1	2.26	0.83
1:R:203:TYR:HB3	1:R:206:GLU:HB3	1.60	0.83
3:W:39:LEU:H	3:W:89:HIS:CE1	1.96	0.83
3:W:748:ARG:HG2	3:W:757:THR:HG22	1.61	0.83
1:I:39:GLY:O	1:N:84:LYS:HD3	1.77	0.83
1:T:154:ARG:NH1	1:T:154:ARG:HB3	1.92	0.83
4:X:987:THR:HG22	4:X:989:THR:HG23	1.61	0.83
1:H:431:ILE:CD1	1:H:437:ILE:CG2	2.54	0.83
1:O:27:THR:HG23	1:T:609:ARG:HH11	1.37	0.83
2:U:18:ALA:HB1	2:U:19:PRO:HD2	1.59	0.83
1:B:380:VAL:HG11	1:B:384:GLN:HG2	1.60	0.82
1:D:380:VAL:HG11	1:D:384:GLN:HG2	1.60	0.82
1:L:203:TYR:HB3	1:L:206:GLU:HB3	1.60	0.82
1:M:21:THR:HG23	1:N:219:LYS:HE2	1.59	0.82
5:O:649:MYR:H31	1:P:191:LYS:HG3	1.60	0.82
1:P:360:TYR:HB2	1:P:367:SER:HB2	1.60	0.82
1:R:416:ARG:HB2	1:T:298:PHE:HE1	1.44	0.82
3:W:1281:ALA:O	3:W:1282:THR:HG22	1.78	0.82
4:X:787:ARG:CG	4:X:787:ARG:NH2	2.27	0.82
4:X:931:ILE:HD11	4:Y:689:VAL:CG1	2.08	0.82
1:B:360:TYR:HB2	1:B:367:SER:HB2	1.61	0.82
5:E:649:MYR:C2	1:F:191:LYS:NZ	2.42	0.82
1:G:21:THR:HG23	1:H:219:LYS:HE2	1.59	0.82
1:J:360:TYR:HB2	1:J:367:SER:HB2	1.61	0.82
1:L:49:ARG:HH12	1:L:115:THR:HG22	1.41	0.82
1:N:291:PRO:HB2	1:N:467:THR:CG2	2.09	0.82
1:R:358:LEU:HD22	1:R:417:PHE:CD2	2.13	0.82
1:T:358:LEU:HD22	1:T:417:PHE:CD2	2.13	0.82
1:F:203:TYR:HB3	1:F:206:GLU:HB3	1.60	0.82
1:G:28:SER:HB3	1:H:216:PRO:HD2	1.59	0.82
1:P:380:VAL:HG11	1:P:384:GLN:HG2	1.60	0.82
3:W:516:MET:HG3	3:W:577:LEU:HD22	1.59	0.82
4:Y:742:MET:HB3	4:Y:825:GLY:O	1.80	0.82
1:B:49:ARG:HH12	1:B:115:THR:HG22	1.41	0.82
1:D:84:LYS:HD3	1:E:39:GLY:O	1.77	0.82
1:I:28:SER:HB3	1:J:216:PRO:HD2	1.59	0.82
1:P:358:LEU:HD22	1:P:417:PHE:CD2	2.13	0.82
1:R:176:ALA:HB1	1:R:628:GLN:HG3	1.62	0.82
4:X:317:PHE:HB2	4:X:373:ARG:NH2	1.94	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:380:VAL:HG11	1:J:384:GLN:HG2	1.60	0.82
5:K:649:MYR:C2	1:L:191:LYS:NZ	2.42	0.82
1:M:28:SER:HB3	1:N:216:PRO:HD2	1.59	0.82
3:W:198:ARG:HH21	4:X:648:ALA:HB1	1.43	0.82
1:D:317:ARG:NH1	1:D:448:PRO:HB2	1.95	0.82
1:P:317:ARG:NH1	1:P:448:PRO:HB2	1.95	0.82
1:Q:28:SER:HB3	1:R:216:PRO:HD2	1.59	0.82
2:V:192:PHE:HA	4:Y:376:LEU:HD23	1.60	0.82
4:X:237:GLU:HA	4:X:1151:ALA:HB3	1.62	0.82
4:X:425:ASN:N	4:X:425:ASN:HD22	1.77	0.82
1:D:298:PHE:HE1	1:H:416:ARG:HB2	1.45	0.82
1:J:176:ALA:HB1	1:J:628:GLN:HG3	1.62	0.82
1:J:494:THR:H	1:J:497:GLU:HB3	1.42	0.82
1:P:59:ASP:O	3:W:379:VAL:HG12	1.79	0.82
1:T:176:ALA:HB1	1:T:628:GLN:HG3	1.62	0.82
1:T:380:VAL:HG11	1:T:384:GLN:HG2	1.60	0.82
1:T:431:ILE:CD1	1:T:437:ILE:CG2	2.54	0.82
4:X:247:THR:CG2	4:X:308:ASN:OD1	2.28	0.82
4:X:697:MET:HE3	4:X:822:MET:HG3	1.62	0.82
4:Y:244:VAL:HG21	4:Y:265:PRO:HA	1.62	0.82
1:H:358:LEU:HD22	1:H:417:PHE:CD2	2.13	0.82
1:T:317:ARG:NH1	1:T:448:PRO:HB2	1.95	0.82
4:X:409:MET:HB2	4:X:445:PHE:O	1.79	0.82
4:X:875:GLN:NE2	4:X:930:ARG:HG2	1.94	0.82
4:Y:707:PHE:O	4:Y:710:ARG:HG2	1.78	0.82
1:F:372:ALA:HB3	1:F:444:LEU:HD12	1.62	0.82
1:F:602:SER:OG	1:H:171:THR:HG21	1.80	0.82
1:J:416:ARG:HB2	1:L:298:PHE:HE1	1.44	0.82
1:L:602:SER:OG	1:N:171:THR:HG21	1.80	0.82
1:P:237:GLU:CB	1:R:46:LYS:HZ1	1.92	0.82
1:T:381:PRO:HG3	1:T:436:TYR:CZ	2.15	0.82
3:W:764:THR:HG21	3:W:1004:VAL:HA	1.62	0.82
1:F:360:TYR:HB2	1:F:367:SER:HB2	1.61	0.82
1:H:317:ARG:NH1	1:H:448:PRO:HB2	1.95	0.82
1:L:149:ILE:O	1:L:153:MET:HB2	1.80	0.82
1:L:360:TYR:HB2	1:L:367:SER:HB2	1.61	0.82
1:L:372:ALA:HB3	1:L:444:LEU:HD12	1.62	0.82
1:L:416:ARG:HB2	1:N:298:PHE:HE1	1.45	0.82
1:N:149:ILE:O	1:N:153:MET:HB2	1.80	0.82
1:P:602:SER:OG	1:R:171:THR:HG21	1.80	0.82
3:W:409:ILE:HG12	3:W:779:MET:HE3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:171:THR:HG21	1:H:602:SER:OG	1.80	0.81
1:D:281:PRO:HD3	1:F:622:GLU:OE1	1.80	0.81
1:D:372:ALA:HB3	1:D:444:LEU:HD12	1.62	0.81
1:D:381:PRO:HG3	1:D:436:TYR:CZ	2.15	0.81
1:D:602:SER:OG	1:F:171:THR:HG21	1.80	0.81
1:J:372:ALA:HB3	1:J:444:LEU:HD12	1.62	0.81
1:N:431:ILE:CD1	1:N:437:ILE:CG2	2.54	0.81
1:P:298:PHE:HE1	1:T:416:ARG:HB2	1.45	0.81
1:R:602:SER:OG	1:T:171:THR:HG21	1.80	0.81
3:W:398:LEU:HD23	3:W:398:LEU:H	1.44	0.81
3:W:748:ARG:NH1	3:W:789:ARG:HA	1.94	0.81
4:X:996:MET:HA	4:X:996:MET:HE2	1.61	0.81
1:B:381:PRO:HG3	1:B:436:TYR:CZ	2.15	0.81
1:D:176:ALA:HB1	1:D:628:GLN:HG3	1.62	0.81
1:D:291:PRO:HB2	1:D:467:THR:CG2	2.09	0.81
1:F:381:PRO:HG3	1:F:436:TYR:CZ	2.15	0.81
1:L:291:PRO:HB2	1:L:467:THR:CG2	2.09	0.81
1:N:380:VAL:HG11	1:N:384:GLN:HG2	1.60	0.81
1:T:203:TYR:HB3	1:T:206:GLU:HB3	1.60	0.81
4:X:958:HIS:CD2	4:X:959:ARG:HH21	1.97	0.81
4:Y:652:GLN:HA	4:Y:773:ARG:HD3	1.62	0.81
1:A:28:SER:HB3	1:B:216:PRO:HD2	1.59	0.81
1:B:372:ALA:HB3	1:B:444:LEU:HD12	1.62	0.81
1:D:203:TYR:HB3	1:D:206:GLU:HB3	1.60	0.81
1:D:237:GLU:CD	1:F:46:LYS:HZ3	1.88	0.81
1:D:416:ARG:HB2	1:F:298:PHE:HE1	1.44	0.81
1:F:317:ARG:NH1	1:F:448:PRO:HB2	1.95	0.81
1:H:149:ILE:O	1:H:153:MET:HB2	1.80	0.81
1:H:170:LEU:HD12	1:H:170:LEU:O	1.81	0.81
1:H:277:ASP:C	1:H:278:THR:HG22	2.06	0.81
1:H:372:ALA:HB3	1:H:444:LEU:HD12	1.62	0.81
1:H:381:PRO:HG3	1:H:436:TYR:CZ	2.15	0.81
1:J:317:ARG:NH1	1:J:448:PRO:HB2	1.95	0.81
1:L:170:LEU:HD12	1:L:170:LEU:O	1.81	0.81
1:N:203:TYR:HB3	1:N:206:GLU:HB3	1.60	0.81
1:P:149:ILE:O	1:P:153:MET:HB2	1.80	0.81
1:R:277:ASP:C	1:R:278:THR:HG22	2.05	0.81
1:R:317:ARG:NH1	1:R:448:PRO:HB2	1.95	0.81
1:T:360:TYR:HB2	1:T:367:SER:HB2	1.61	0.81
2:U:27:GLN:O	4:X:882:PRO:HD3	1.80	0.81
3:W:823:THR:HG21	3:W:846:ILE:HG12	1.60	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:1096:PHE:H	3:W:1096:PHE:HD2	1.25	0.81
4:X:222:PHE:O	4:X:1154:ILE:HG23	1.79	0.81
4:Y:196:GLU:OE1	4:Y:313:LYS:HB2	1.80	0.81
4:Y:355:LYS:HZ3	4:Y:1156:THR:CG2	1.92	0.81
4:Y:773:ARG:HH11	4:Y:773:ARG:HB2	1.45	0.81
1:D:431:ILE:CD1	1:D:437:ILE:CG2	2.54	0.81
1:J:171:THR:HG21	1:N:602:SER:OG	1.80	0.81
1:J:281:PRO:HD3	1:L:622:GLU:OE1	1.81	0.81
1:N:291:PRO:CB	1:N:467:THR:CG2	2.56	0.81
1:P:416:ARG:HB2	1:R:298:PHE:HE1	1.44	0.81
2:U:224:ASN:ND2	2:U:346:LEU:HD11	1.95	0.81
4:Y:778:ASP:HA	4:Y:940:GLN:HB3	1.60	0.81
1:B:317:ARG:NH1	1:B:448:PRO:HB2	1.95	0.81
1:F:237:GLU:CD	1:H:46:LYS:HZ3	1.88	0.81
1:F:431:ILE:CD1	1:F:437:ILE:CG2	2.54	0.81
1:J:530:ARG:NE	1:N:472:ARG:NH2	2.28	0.81
1:L:317:ARG:NH1	1:L:448:PRO:HB2	1.95	0.81
1:N:277:ASP:C	1:N:278:THR:HG22	2.06	0.81
1:P:176:ALA:HB1	1:P:628:GLN:HG3	1.62	0.81
1:P:622:GLU:OE1	1:T:281:PRO:HD3	1.81	0.81
1:R:291:PRO:HB2	1:R:467:THR:CG2	2.09	0.81
1:D:530:ARG:NE	1:H:472:ARG:NH2	2.28	0.81
1:F:277:ASP:C	1:F:278:THR:HG22	2.06	0.81
1:N:381:PRO:HG3	1:N:436:TYR:CZ	2.15	0.81
5:Q:649:MYR:C2	1:R:191:LYS:NZ	2.42	0.81
1:R:149:ILE:O	1:R:153:MET:HB2	1.81	0.81
1:R:381:PRO:HG3	1:R:436:TYR:CZ	2.15	0.81
4:Y:220:ILE:HG22	4:Y:221:GLY:H	1.45	0.81
1:B:149:ILE:O	1:B:153:MET:HB2	1.80	0.81
1:J:149:ILE:O	1:J:153:MET:HB2	1.80	0.81
1:J:170:LEU:HD12	1:J:170:LEU:O	1.81	0.81
4:Y:543:THR:HG22	4:Y:577:SER:H	1.46	0.81
1:F:380:VAL:HG11	1:F:384:GLN:HG2	1.60	0.81
1:H:176:ALA:HB1	1:H:628:GLN:HG3	1.62	0.81
1:H:358:LEU:CD2	1:H:417:PHE:CE2	2.64	0.81
1:L:380:VAL:HG11	1:L:384:GLN:HG2	1.60	0.81
1:N:170:LEU:HD12	1:N:170:LEU:O	1.81	0.81
5:S:649:MYR:C2	1:T:191:LYS:NZ	2.44	0.81
1:T:372:ALA:HB3	1:T:444:LEU:HD12	1.62	0.81
4:X:795:ASP:CG	4:Y:737:ARG:HH12	1.87	0.81
1:F:416:ARG:HB2	1:H:298:PHE:HE1	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:277:ASP:C	1:J:278:THR:HG22	2.06	0.81
1:L:358:LEU:CD2	1:L:417:PHE:CE2	2.64	0.81
1:L:381:PRO:HG3	1:L:436:TYR:CZ	2.15	0.81
1:R:360:TYR:HB2	1:R:367:SER:HB2	1.61	0.81
1:R:372:ALA:HB3	1:R:444:LEU:HD12	1.62	0.81
3:W:736:VAL:HG21	3:W:780:LEU:HD21	1.63	0.81
4:Y:627:ASN:HD22	4:Y:630:LEU:HG	1.43	0.81
4:Y:692:THR:HG23	4:Y:693:TYR:CD1	2.15	0.81
1:D:277:ASP:C	1:D:278:THR:HG22	2.06	0.81
1:D:358:LEU:CD2	1:D:417:PHE:CE2	2.64	0.81
1:J:291:PRO:HB2	1:J:467:THR:CG2	2.09	0.81
1:J:381:PRO:HG3	1:J:436:TYR:CZ	2.15	0.81
1:J:602:SER:OG	1:L:171:THR:HG21	1.80	0.81
1:P:277:ASP:C	1:P:278:THR:HG22	2.06	0.81
1:P:381:PRO:HG3	1:P:436:TYR:CZ	2.15	0.81
1:P:575:MET:HB2	1:T:469:VAL:HG23	1.63	0.81
1:T:149:ILE:O	1:T:153:MET:HB2	1.80	0.81
4:X:242:ARG:HH21	4:X:1085:LEU:HD13	1.43	0.81
1:D:469:VAL:HG23	1:F:575:MET:HB2	1.63	0.80
1:F:170:LEU:HD12	1:F:170:LEU:O	1.81	0.80
1:H:291:PRO:HB2	1:H:467:THR:CG2	2.09	0.80
1:J:298:PHE:HE1	1:N:416:ARG:HB2	1.45	0.80
1:N:317:ARG:NH1	1:N:448:PRO:HB2	1.95	0.80
2:U:242:ASN:HD21	2:U:244:ASP:HB3	1.46	0.80
4:X:875:GLN:HG3	4:X:876:ASP:H	1.46	0.80
4:Y:575:MET:HE1	4:Y:747:ILE:HD11	1.63	0.80
1:H:380:VAL:HG11	1:H:384:GLN:HG2	1.60	0.80
1:R:281:PRO:HD3	1:T:622:GLU:OE1	1.81	0.80
1:T:277:ASP:C	1:T:278:THR:HG22	2.05	0.80
2:U:16:GLN:HG2	2:U:20:LEU:HD21	1.62	0.80
3:W:1134:VAL:HG22	3:W:1219:ILE:HD11	1.63	0.80
4:X:697:MET:HG2	4:X:744:PRO:HA	1.64	0.80
1:B:481:VAL:HG12	1:B:482:ASP:H	1.47	0.80
1:F:149:ILE:O	1:F:153:MET:HB2	1.80	0.80
1:F:358:LEU:CD2	1:F:417:PHE:CE2	2.64	0.80
1:H:291:PRO:CB	1:H:467:THR:CG2	2.56	0.80
1:P:481:VAL:HG12	1:P:482:ASP:H	1.47	0.80
1:R:380:VAL:HG11	1:R:384:GLN:HG2	1.60	0.80
1:R:431:ILE:CD1	1:R:437:ILE:CG2	2.54	0.80
3:W:9:LEU:HD13	3:W:318:VAL:HG21	1.63	0.80
3:W:823:THR:HG23	3:W:850:LEU:HD13	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:149:ILE:O	1:D:153:MET:HB2	1.80	0.80
1:J:575:MET:CB	1:N:469:VAL:HG23	2.12	0.80
1:N:176:ALA:HB1	1:N:628:GLN:HG3	1.62	0.80
1:P:372:ALA:HB3	1:P:444:LEU:HD12	1.62	0.80
2:U:135:MET:O	2:U:138:ILE:HG22	1.80	0.80
1:B:277:ASP:C	1:B:278:THR:HG22	2.06	0.80
1:B:431:ILE:CD1	1:B:437:ILE:CG2	2.54	0.80
1:D:68:PHE:HB3	1:D:140:VAL:HG12	1.62	0.80
1:D:469:VAL:HG23	1:F:575:MET:CB	2.12	0.80
1:F:176:ALA:HB1	1:F:628:GLN:HG3	1.62	0.80
1:F:281:PRO:HD3	1:H:622:GLU:OE1	1.81	0.80
1:F:355:GLY:CA	1:H:298:PHE:CE2	2.65	0.80
1:F:469:VAL:HG23	1:H:575:MET:CB	2.12	0.80
1:L:469:VAL:HG23	1:N:575:MET:CB	2.12	0.80
1:P:431:ILE:CD1	1:P:437:ILE:CG2	2.54	0.80
1:P:575:MET:CB	1:T:469:VAL:HG23	2.12	0.80
1:R:469:VAL:HG23	1:T:575:MET:HB2	1.63	0.80
2:U:171:THR:O	2:U:175:MET:HG3	1.81	0.80
4:X:587:MET:HE1	4:X:599:ILE:HD11	1.64	0.80
1:B:291:PRO:CB	1:B:467:THR:CG2	2.56	0.80
1:D:53:THR:CG2	1:D:54:SER:H	1.92	0.80
1:F:274:ILE:CD1	1:F:514:LEU:HD22	2.10	0.80
1:H:92:TRP:CZ3	1:H:210:VAL:HG11	2.17	0.80
1:H:274:ILE:CD1	1:H:514:LEU:HD22	2.10	0.80
1:L:237:GLU:CB	1:N:46:LYS:HZ1	1.93	0.80
1:L:469:VAL:HG23	1:N:575:MET:HB2	1.63	0.80
1:N:274:ILE:CD1	1:N:514:LEU:HD22	2.10	0.80
1:P:171:THR:HG21	1:T:602:SER:OG	1.80	0.80
1:P:298:PHE:CE2	1:T:355:GLY:CA	2.65	0.80
1:P:355:GLY:CA	1:R:298:PHE:CE2	2.65	0.80
1:T:92:TRP:CZ3	1:T:210:VAL:HG11	2.17	0.80
3:W:1130:PRO:HB2	3:W:1158:ASP:OD2	1.80	0.80
4:X:754:GLU:O	4:X:758:LEU:HB2	1.82	0.80
1:D:472:ARG:NH2	1:F:530:ARG:NE	2.28	0.80
1:L:176:ALA:HB1	1:L:628:GLN:HG3	1.62	0.80
1:N:481:VAL:HG12	1:N:482:ASP:H	1.47	0.80
1:T:291:PRO:HB2	1:T:467:THR:CG2	2.09	0.80
2:U:245:GLN:HE21	2:U:246:ALA:N	1.78	0.80
2:U:341:TRP:HA	2:U:346:LEU:HD12	1.64	0.80
3:W:248:LEU:HD23	3:W:254:LEU:HD22	1.61	0.80
4:X:827:THR:HG21	4:X:831:LEU:CD2	2.11	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:176:ALA:HB1	1:B:628:GLN:HG3	1.62	0.80
1:D:575:MET:HB2	1:H:469:VAL:HG23	1.63	0.80
1:F:92:TRP:CZ3	1:F:210:VAL:HG11	2.17	0.80
1:L:355:GLY:CA	1:N:298:PHE:CE2	2.65	0.80
1:L:625:ARG:CG	1:R:197:ASP:OD1	2.28	0.80
1:P:116:SER:HB3	1:P:133:ASN:N	1.97	0.80
1:P:291:PRO:HB2	1:P:467:THR:CG2	2.09	0.80
1:P:358:LEU:CD2	1:P:417:PHE:CE2	2.64	0.80
1:R:358:LEU:CD2	1:R:417:PHE:CE2	2.64	0.80
1:R:469:VAL:HG23	1:T:575:MET:CB	2.12	0.80
1:T:358:LEU:CD2	1:T:417:PHE:CE2	2.64	0.80
1:D:92:TRP:CZ3	1:D:210:VAL:HG11	2.17	0.80
1:D:354:SER:HB3	1:D:419:MET:HA	1.64	0.80
1:D:622:GLU:OE1	1:H:281:PRO:HD3	1.81	0.80
5:G:649:MYR:C2	1:H:191:LYS:NZ	2.44	0.80
1:J:51:VAL:CG1	1:J:60:SER:O	2.28	0.80
1:J:431:ILE:CD1	1:J:437:ILE:CG2	2.54	0.80
1:N:358:LEU:CD2	1:N:417:PHE:CE2	2.64	0.80
1:P:472:ARG:HH12	1:R:530:ARG:HD3	1.45	0.80
1:R:237:GLU:CB	1:T:46:LYS:HZ1	1.95	0.80
1:T:481:VAL:HG12	1:T:482:ASP:H	1.47	0.80
4:X:958:HIS:HD2	4:X:959:ARG:HH21	1.28	0.80
4:Y:593:LEU:HB2	4:Y:596:PRO:HG2	1.64	0.80
1:B:170:LEU:HD12	1:B:170:LEU:O	1.81	0.80
1:J:355:GLY:CA	1:L:298:PHE:CE2	2.65	0.80
1:J:358:LEU:CD2	1:J:417:PHE:CE2	2.64	0.80
1:P:170:LEU:O	1:P:170:LEU:HD12	1.80	0.80
1:R:355:GLY:CA	1:T:298:PHE:CE2	2.65	0.80
1:T:170:LEU:HD12	1:T:170:LEU:O	1.81	0.80
1:T:291:PRO:CB	1:T:467:THR:CG2	2.55	0.80
2:V:181:PRO:HG2	4:Y:412:ASP:OD2	1.82	0.80
3:W:71:HIS:CE1	3:W:73:ALA:HB3	2.17	0.80
4:X:195:ILE:O	4:X:195:ILE:CG2	2.28	0.80
1:B:358:LEU:CD2	1:B:417:PHE:CE2	2.64	0.79
1:F:409:ILE:HD13	1:H:297:ALA:O	1.83	0.79
1:J:469:VAL:HG23	1:L:575:MET:CB	2.12	0.79
1:P:469:VAL:HG23	1:R:575:MET:CB	2.12	0.79
2:U:32:CYS:HB3	4:X:958:HIS:HE1	1.06	0.79
3:W:35:GLN:HG3	3:W:96:VAL:HG21	1.64	0.79
4:Y:1168:ARG:HB3	4:Y:1190:LEU:HD23	1.64	0.79
1:D:170:LEU:HD12	1:D:170:LEU:O	1.81	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:92:TRP:CZ3	1:P:210:VAL:HG11	2.17	0.79
4:Y:653:PRO:HA	4:Y:678:PRO:O	1.83	0.79
5:A:649:MYR:H143	5:A:649:MYR:C10	2.11	0.79
1:B:291:PRO:HB2	1:B:467:THR:CG2	2.09	0.79
1:D:297:ALA:O	1:H:409:ILE:HD13	1.83	0.79
1:H:116:SER:HB3	1:H:133:ASN:N	1.97	0.79
1:J:291:PRO:CB	1:J:467:THR:CG2	2.56	0.79
1:J:622:GLU:OE1	1:N:281:PRO:HD3	1.81	0.79
5:M:649:MYR:C2	1:N:191:LYS:NZ	2.44	0.79
1:R:170:LEU:HD12	1:R:170:LEU:O	1.81	0.79
4:X:795:ASP:CG	4:X:798:VAL:HG21	2.07	0.79
4:Y:589:LEU:HG	4:Y:593:LEU:HD21	1.63	0.79
1:D:343:ALA:HB2	1:D:478:GLY:O	1.83	0.79
1:J:358:LEU:CG	1:J:417:PHE:HE2	1.96	0.79
1:L:92:TRP:CZ3	1:L:210:VAL:HG11	2.17	0.79
1:L:431:ILE:CD1	1:L:437:ILE:CG2	2.54	0.79
1:P:281:PRO:HD3	1:R:622:GLU:OE1	1.81	0.79
1:R:92:TRP:CZ3	1:R:210:VAL:HG11	2.17	0.79
1:R:409:ILE:HD13	1:T:297:ALA:O	1.82	0.79
2:U:220:THR:HG21	2:U:404:VAL:HA	1.65	0.79
3:W:477:ARG:HA	3:W:650:VAL:HG11	1.64	0.79
4:X:299:LEU:HD11	4:X:904:ALA:HB3	1.63	0.79
4:X:889:ARG:HG3	4:X:890:GLN:H	1.47	0.79
4:Y:244:VAL:CG2	4:Y:265:PRO:HA	2.12	0.79
4:Y:593:LEU:HD23	4:Y:593:LEU:H	1.47	0.79
5:E:649:MYR:H143	5:E:649:MYR:C10	2.12	0.79
1:J:343:ALA:HB2	1:J:478:GLY:O	1.83	0.79
1:J:609:ARG:HD2	1:K:29:THR:CG2	2.13	0.79
1:L:358:LEU:CG	1:L:417:PHE:HE2	1.96	0.79
1:T:287:PRO:O	1:T:471:LEU:HD12	1.83	0.79
4:X:242:ARG:HH21	4:X:1085:LEU:HD11	1.47	0.79
4:X:524:ASP:C	4:X:526:ALA:H	1.88	0.79
1:D:575:MET:CB	1:H:469:VAL:HG23	2.12	0.79
1:D:609:ARG:HD2	1:E:29:THR:CG2	2.13	0.79
1:J:118:TYR:CE1	1:J:130:PRO:HB3	2.18	0.79
1:O:29:THR:CG2	1:T:609:ARG:HD2	2.13	0.79
1:R:238:VAL:HG11	1:T:78:MET:HE2	1.65	0.79
1:R:343:ALA:HB2	1:R:478:GLY:O	1.83	0.79
1:T:343:ALA:HB2	1:T:478:GLY:O	1.83	0.79
1:T:354:SER:HB3	1:T:419:MET:HA	1.64	0.79
2:U:9:LEU:HD23	2:U:119:LEU:HD23	1.63	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1125:TYR:CE1	4:X:1127:CYS:HB3	2.17	0.79
1:B:92:TRP:CZ3	1:B:210:VAL:HG11	2.17	0.79
1:D:481:VAL:HG12	1:D:482:ASP:H	1.47	0.79
1:H:118:TYR:CE1	1:H:130:PRO:HB3	2.18	0.79
1:I:29:THR:CG2	1:N:609:ARG:HD2	2.13	0.79
1:J:297:ALA:O	1:N:409:ILE:HD13	1.82	0.79
1:L:281:PRO:HD3	1:N:622:GLU:OE1	1.81	0.79
1:L:287:PRO:O	1:L:471:LEU:HD12	1.83	0.79
5:O:649:MYR:H143	5:O:649:MYR:C10	2.11	0.79
5:Q:649:MYR:H143	5:Q:649:MYR:C10	2.11	0.79
2:V:195:GLN:NE2	4:Y:377:ILE:H	1.80	0.79
1:D:50:PRO:CA	1:D:60:SER:O	2.30	0.79
1:D:78:MET:HE2	1:H:238:VAL:HG11	1.65	0.79
1:D:118:TYR:CE1	1:D:130:PRO:HB3	2.18	0.79
1:D:291:PRO:CB	1:D:467:THR:CG2	2.56	0.79
1:D:298:PHE:CE2	1:H:355:GLY:CA	2.65	0.79
1:F:238:VAL:HG11	1:H:78:MET:HE2	1.65	0.79
1:F:358:LEU:CG	1:F:417:PHE:HE2	1.96	0.79
1:J:298:PHE:CE2	1:N:355:GLY:CA	2.65	0.79
1:L:409:ILE:HD13	1:N:297:ALA:O	1.83	0.79
1:L:609:ARG:HD2	1:M:29:THR:CG2	2.13	0.79
1:P:564:LEU:HD21	1:P:568:ARG:NH2	1.98	0.79
1:R:287:PRO:O	1:R:471:LEU:HD12	1.83	0.79
4:Y:1025:ASN:CG	4:Y:1026:GLY:H	1.91	0.79
1:C:29:THR:CG2	1:H:609:ARG:HD2	2.13	0.79
1:F:139:THR:O	1:F:142:ILE:CG2	2.30	0.79
1:F:469:VAL:HG23	1:H:575:MET:HB2	1.63	0.79
1:J:469:VAL:HG23	1:L:575:MET:HB2	1.63	0.79
1:L:106:ILE:HD11	1:L:152:ARG:HG3	1.65	0.79
1:L:118:TYR:CE1	1:L:130:PRO:HB3	2.18	0.79
1:N:354:SER:HB3	1:N:419:MET:HA	1.64	0.79
1:N:372:ALA:HB3	1:N:444:LEU:HD12	1.62	0.79
1:P:78:MET:HE2	1:T:238:VAL:HG11	1.65	0.79
1:P:106:ILE:HD11	1:P:152:ARG:HG3	1.65	0.79
2:V:232:PHE:HB3	2:V:248:LEU:HD11	1.62	0.79
4:X:483:VAL:HB	4:X:840:ALA:HB1	1.63	0.79
4:Y:415:GLN:HE21	4:Y:662:LEU:HD23	1.48	0.79
1:B:358:LEU:CG	1:B:417:PHE:HE2	1.96	0.79
1:D:409:ILE:HD13	1:F:297:ALA:O	1.83	0.79
1:F:116:SER:HB3	1:F:133:ASN:N	1.97	0.79
1:F:118:TYR:CE1	1:F:130:PRO:HB3	2.18	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:92:TRP:CZ3	1:J:210:VAL:HG11	2.17	0.79
1:J:481:VAL:HG12	1:J:482:ASP:H	1.47	0.79
1:J:613:LEU:HD11	1:K:34:ILE:HB	1.65	0.79
1:L:343:ALA:HB2	1:L:478:GLY:O	1.83	0.79
1:P:358:LEU:CG	1:P:417:PHE:HE2	1.96	0.79
1:T:564:LEU:HD21	1:T:568:ARG:NH2	1.98	0.79
2:U:86:SER:HB3	2:U:91:THR:HB	1.65	0.79
2:U:224:ASN:HD21	2:U:226:SER:HB3	1.46	0.79
4:X:938:TYR:CE1	4:X:946:VAL:HG21	2.17	0.79
4:Y:409:MET:SD	4:Y:858:VAL:HG21	2.22	0.79
4:Y:862:GLU:HB3	4:Y:957:ILE:HD12	1.64	0.79
1:D:238:VAL:HG11	1:F:78:MET:HE2	1.65	0.78
1:L:116:SER:HB3	1:L:133:ASN:N	1.97	0.78
1:L:277:ASP:C	1:L:278:THR:HG22	2.06	0.78
1:L:287:PRO:O	1:L:471:LEU:CD1	2.32	0.78
1:L:291:PRO:CB	1:L:467:THR:CG2	2.55	0.78
1:R:118:TYR:CE1	1:R:130:PRO:HB3	2.18	0.78
1:R:609:ARG:HD2	1:S:29:THR:CG2	2.13	0.78
3:W:733:ALA:HB2	3:W:779:MET:HE1	1.65	0.78
4:X:215:LEU:HD23	4:X:215:LEU:H	1.48	0.78
1:B:287:PRO:O	1:B:471:LEU:CD1	2.32	0.78
1:B:343:ALA:HB2	1:B:478:GLY:O	1.83	0.78
1:C:34:ILE:HB	1:H:613:LEU:HD11	1.65	0.78
1:D:355:GLY:CA	1:F:298:PHE:CE2	2.65	0.78
1:D:613:LEU:HD11	1:E:34:ILE:HB	1.65	0.78
1:F:139:THR:HA	1:F:142:ILE:HG22	1.65	0.78
1:J:46:LYS:HZ1	1:N:237:GLU:CB	1.95	0.78
1:J:287:PRO:O	1:J:471:LEU:CD1	2.31	0.78
1:J:575:MET:HB2	1:N:469:VAL:HG23	1.63	0.78
1:N:118:TYR:CE1	1:N:130:PRO:HB3	2.18	0.78
1:N:343:ALA:HB2	1:N:478:GLY:O	1.83	0.78
1:P:46:LYS:HZ1	1:T:237:GLU:CB	1.95	0.78
1:T:358:LEU:CG	1:T:417:PHE:HE2	1.96	0.78
4:Y:235:LEU:HB2	4:Y:356:ASN:ND2	1.99	0.78
1:L:564:LEU:HD21	1:L:568:ARG:NH2	1.98	0.78
1:P:287:PRO:O	1:P:471:LEU:HD12	1.83	0.78
1:P:297:ALA:O	1:T:409:ILE:HD13	1.82	0.78
1:P:472:ARG:HH12	1:R:530:ARG:CD	1.96	0.78
1:P:609:ARG:HD2	1:Q:29:THR:CG2	2.13	0.78
1:R:116:SER:HB3	1:R:133:ASN:N	1.97	0.78
1:B:118:TYR:CE1	1:B:130:PRO:HB3	2.18	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:564:LEU:HD21	1:B:568:ARG:NH2	1.98	0.78
1:D:564:LEU:HD21	1:D:568:ARG:NH2	1.98	0.78
1:J:354:SER:HB3	1:J:419:MET:HA	1.64	0.78
1:R:354:SER:HB3	1:R:419:MET:HA	1.64	0.78
2:U:161:VAL:HG21	2:U:410:MET:HG3	1.66	0.78
3:W:618:LEU:HD13	3:W:619:LYS:H	1.46	0.78
4:X:243:ILE:HG13	4:X:1147:PHE:HB2	1.63	0.78
4:X:457:MET:HE1	4:X:923:LEU:HD11	1.64	0.78
4:X:940:GLN:HE22	4:X:944:ASN:HD22	1.31	0.78
1:B:354:SER:HB3	1:B:419:MET:HA	1.64	0.78
1:F:291:PRO:CB	1:F:467:THR:CG2	2.55	0.78
1:N:287:PRO:O	1:N:471:LEU:HD12	1.83	0.78
1:P:238:VAL:CG2	1:R:78:MET:CE	2.59	0.78
1:P:566:TRP:CE2	1:R:195:PRO:HD3	2.19	0.78
1:R:566:TRP:CE2	1:T:195:PRO:HD3	2.19	0.78
4:X:196:GLU:HB3	4:X:313:LYS:HB2	1.63	0.78
1:H:294:TYR:HH	1:H:502:LEU:HA	1.47	0.78
1:H:564:LEU:HD21	1:H:568:ARG:NH2	1.98	0.78
1:N:116:SER:HB3	1:N:133:ASN:N	1.97	0.78
1:P:287:PRO:O	1:P:471:LEU:CD1	2.32	0.78
1:R:357:ILE:HG22	1:R:359:PRO:HD3	1.66	0.78
1:R:564:LEU:HD21	1:R:568:ARG:NH2	1.98	0.78
3:W:457:LEU:HB2	3:W:625:ARG:HB2	1.65	0.78
1:D:195:PRO:HD3	1:H:566:TRP:CE2	2.19	0.78
1:D:287:PRO:O	1:D:471:LEU:CD1	2.31	0.78
1:F:287:PRO:O	1:F:471:LEU:HD12	1.83	0.78
1:F:343:ALA:HB2	1:F:478:GLY:O	1.83	0.78
1:F:354:SER:HB3	1:F:419:MET:HA	1.64	0.78
1:F:609:ARG:HD2	1:G:29:THR:CG2	2.13	0.78
1:H:481:VAL:HG12	1:H:482:ASP:H	1.47	0.78
1:J:287:PRO:O	1:J:471:LEU:HD12	1.83	0.78
1:P:343:ALA:HB2	1:P:478:GLY:O	1.83	0.78
3:W:341:MET:HE2	3:W:341:MET:HA	1.66	0.78
4:X:241:ASN:O	4:X:1147:PHE:HB3	1.83	0.78
4:X:773:ARG:O	4:X:774:LEU:HB2	1.83	0.78
4:X:780:ILE:HD12	4:X:938:TYR:CD2	2.18	0.78
1:D:58:ILE:HD12	1:D:58:ILE:N	1.98	0.78
1:D:358:LEU:CG	1:D:417:PHE:HE2	1.96	0.78
1:D:530:ARG:HE	1:H:472:ARG:HH21	1.29	0.78
1:H:287:PRO:O	1:H:471:LEU:HD12	1.83	0.78
1:H:358:LEU:CG	1:H:417:PHE:HE2	1.96	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:566:TRP:CE2	1:L:195:PRO:HD3	2.19	0.78
1:R:358:LEU:CG	1:R:417:PHE:HE2	1.96	0.78
4:X:247:THR:HG22	4:X:308:ASN:OD1	1.83	0.78
4:Y:765:PRO:HD3	4:Y:853:ARG:HD2	1.65	0.78
4:Y:1210:VAL:HG22	4:Y:1211:ARG:H	1.47	0.78
1:B:287:PRO:O	1:B:471:LEU:HD12	1.83	0.78
1:D:287:PRO:O	1:D:471:LEU:HD12	1.83	0.78
1:F:481:VAL:HG12	1:F:482:ASP:H	1.47	0.78
1:J:238:VAL:HG11	1:L:78:MET:HE2	1.65	0.78
1:K:28:SER:CB	1:L:216:PRO:HD2	2.14	0.78
1:R:189:PHE:CE1	1:R:193:ILE:HD11	2.19	0.78
3:W:398:LEU:HD11	3:W:788:GLN:NE2	1.99	0.78
3:W:1154:ARG:CD	3:W:1189:ASN:HD22	1.96	0.78
4:X:315:SER:HB2	4:X:331:ARG:HD2	1.66	0.78
4:X:1091:GLN:NE2	4:X:1127:CYS:HB2	1.99	0.78
4:Y:202:THR:CG2	4:Y:391:CYS:HA	2.14	0.78
1:D:566:TRP:CE2	1:F:195:PRO:HD3	2.19	0.78
1:H:287:PRO:O	1:H:471:LEU:CD1	2.32	0.78
1:J:49:ARG:NH1	1:J:115:THR:HG22	1.98	0.78
1:L:189:PHE:CE1	1:L:193:ILE:HD11	2.19	0.78
1:N:358:LEU:CG	1:N:417:PHE:HE2	1.96	0.78
1:P:118:TYR:CE1	1:P:130:PRO:HB3	2.18	0.78
1:P:127:LEU:O	1:P:127:LEU:HD22	1.84	0.78
1:P:189:PHE:CE1	1:P:193:ILE:HD11	2.19	0.78
1:P:291:PRO:CB	1:P:467:THR:CG2	2.56	0.78
1:P:308:ALA:HB1	1:P:383:GLN:HE21	1.49	0.78
1:S:28:SER:CB	1:T:216:PRO:HD2	2.14	0.78
1:T:358:LEU:HB2	1:T:417:PHE:CD2	2.19	0.78
2:V:331:VAL:HB	2:V:332:PRO:HD3	1.66	0.78
3:W:1161:TYR:HE1	3:W:1218:ARG:HH11	1.32	0.78
1:F:287:PRO:O	1:F:471:LEU:CD1	2.32	0.77
1:F:357:ILE:HG22	1:F:359:PRO:HD3	1.66	0.77
1:F:564:LEU:HD21	1:F:568:ARG:NH2	1.98	0.77
1:J:106:ILE:HD11	1:J:152:ARG:HG3	1.65	0.77
1:L:238:VAL:HG11	1:N:78:MET:HE2	1.65	0.77
1:L:274:ILE:CD1	1:L:514:LEU:HD22	2.10	0.77
1:M:28:SER:CB	1:N:216:PRO:HD2	2.14	0.77
1:N:308:ALA:HB1	1:N:383:GLN:HE21	1.49	0.77
1:N:358:LEU:HB2	1:N:417:PHE:CD2	2.20	0.77
2:V:184:HIS:NE2	4:Y:436:LEU:CD1	2.47	0.77
3:W:312:LEU:HD11	3:W:352:TYR:HB2	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:979:ARG:HG3	4:X:980:GLY:N	1.97	0.77
4:Y:353:GLN:OE1	4:Y:353:GLN:HA	1.83	0.77
1:B:106:ILE:HD11	1:B:152:ARG:HG3	1.65	0.77
1:B:137:ILE:HG12	1:B:142:ILE:HG13	1.66	0.77
1:D:358:LEU:HB2	1:D:417:PHE:CD2	2.20	0.77
1:F:566:TRP:CE2	1:H:195:PRO:HD3	2.19	0.77
1:I:28:SER:CB	1:J:216:PRO:HD2	2.14	0.77
1:L:354:SER:HB3	1:L:419:MET:HA	1.64	0.77
1:N:92:TRP:CZ3	1:N:210:VAL:HG11	2.17	0.77
1:P:469:VAL:HG23	1:R:575:MET:HB2	1.63	0.77
2:V:184:HIS:NE2	4:Y:436:LEU:HD13	1.98	0.77
3:W:949:ILE:HD11	3:W:1022:LEU:HD11	1.66	0.77
4:X:370:ARG:C	4:X:371:LEU:HD12	2.09	0.77
1:B:49:ARG:HB2	1:B:64:VAL:HG22	1.66	0.77
5:C:649:MYR:C2	1:D:191:LYS:NZ	2.48	0.77
1:F:106:ILE:HD11	1:F:152:ARG:HG3	1.65	0.77
1:H:343:ALA:HB2	1:H:478:GLY:O	1.83	0.77
5:I:649:MYR:H143	5:I:649:MYR:C10	2.11	0.77
5:I:649:MYR:C2	1:J:191:LYS:NZ	2.48	0.77
1:J:277:ASP:C	1:J:278:THR:CG2	2.58	0.77
1:J:308:ALA:HB1	1:J:383:GLN:HE21	1.49	0.77
1:L:566:TRP:CE2	1:N:195:PRO:HD3	2.19	0.77
1:N:189:PHE:CE1	1:N:193:ILE:HD11	2.19	0.77
1:N:287:PRO:O	1:N:471:LEU:CD1	2.32	0.77
1:O:34:ILE:HB	1:T:613:LEU:HD11	1.65	0.77
1:P:137:ILE:HG12	1:P:142:ILE:HG13	1.66	0.77
1:T:357:ILE:HG22	1:T:359:PRO:HD3	1.66	0.77
2:U:222:ARG:HD3	2:U:408:GLN:HG2	1.65	0.77
4:X:1149:THR:HG21	4:X:1161:ASN:CA	2.11	0.77
1:D:443:PHE:CE1	1:D:459:LEU:HD21	2.20	0.77
1:F:443:PHE:CE1	1:F:459:LEU:HD21	2.20	0.77
1:J:189:PHE:CE1	1:J:193:ILE:HD11	2.19	0.77
1:J:237:GLU:CB	1:L:46:LYS:HZ1	1.94	0.77
1:L:443:PHE:CE1	1:L:459:LEU:HD21	2.20	0.77
1:P:238:VAL:HG11	1:R:78:MET:HE2	1.65	0.77
1:B:57:THR:HG22	1:B:58:ILE:H	1.50	0.77
1:B:443:PHE:CE1	1:B:459:LEU:HD21	2.20	0.77
1:D:298:PHE:CE1	1:H:416:ARG:HB2	2.20	0.77
1:F:308:ALA:HB1	1:F:383:GLN:HE21	1.49	0.77
1:H:354:SER:HB3	1:H:419:MET:HA	1.64	0.77
1:H:443:PHE:CE1	1:H:459:LEU:HD21	2.20	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:564:LEU:HD21	1:J:568:ARG:NH2	1.98	0.77
1:P:354:SER:HB3	1:P:419:MET:HA	1.64	0.77
1:P:409:ILE:HD13	1:R:297:ALA:O	1.82	0.77
1:R:287:PRO:O	1:R:471:LEU:CD1	2.32	0.77
1:T:277:ASP:C	1:T:278:THR:CG2	2.58	0.77
4:X:763:VAL:HA	4:X:853:ARG:NH2	1.98	0.77
4:Y:1150:ASN:ND2	4:Y:1156:THR:HB	1.99	0.77
5:C:649:MYR:H143	5:C:649:MYR:C10	2.11	0.77
1:D:189:PHE:CE1	1:D:193:ILE:HD11	2.19	0.77
1:G:28:SER:CB	1:H:216:PRO:HD2	2.14	0.77
1:L:416:ARG:HB2	1:N:298:PHE:CE1	2.20	0.77
1:T:287:PRO:O	1:T:471:LEU:CD1	2.32	0.77
4:X:757:VAL:HG13	4:X:845:PHE:HE1	1.48	0.77
1:A:28:SER:CB	1:B:216:PRO:HD2	2.14	0.77
1:B:277:ASP:C	1:B:278:THR:CG2	2.58	0.77
1:J:358:LEU:HB2	1:J:417:PHE:CD2	2.20	0.77
1:L:277:ASP:C	1:L:278:THR:CG2	2.58	0.77
1:L:358:LEU:HB2	1:L:417:PHE:CD2	2.20	0.77
1:L:481:VAL:HG12	1:L:482:ASP:H	1.47	0.77
1:N:106:ILE:HD11	1:N:152:ARG:HG3	1.65	0.77
1:N:443:PHE:CE1	1:N:459:LEU:HD21	2.20	0.77
1:N:564:LEU:HD21	1:N:568:ARG:NH2	1.98	0.77
1:O:28:SER:CB	1:P:216:PRO:HD2	2.14	0.77
1:P:49:ARG:HB2	1:P:64:VAL:HG22	1.66	0.77
1:P:87:PHE:HZ	1:P:235:LEU:HD12	1.50	0.77
1:P:195:PRO:HD3	1:T:566:TRP:CE2	2.19	0.77
1:R:137:ILE:HG12	1:R:142:ILE:HG13	1.67	0.77
1:R:308:ALA:HB1	1:R:383:GLN:HE21	1.50	0.77
1:R:443:PHE:CE1	1:R:459:LEU:HD21	2.20	0.77
1:R:481:VAL:HG12	1:R:482:ASP:H	1.47	0.77
1:T:118:TYR:CE1	1:T:130:PRO:HB3	2.18	0.77
2:U:198:GLN:HE21	4:X:662:LEU:HD13	1.49	0.77
1:D:308:ALA:HB1	1:D:383:GLN:HE21	1.49	0.77
1:D:357:ILE:HG22	1:D:359:PRO:HD3	1.66	0.77
1:H:106:ILE:HD11	1:H:152:ARG:HG3	1.65	0.77
1:J:357:ILE:HG22	1:J:359:PRO:HD3	1.66	0.77
1:L:178:SER:CB	1:Q:3:ASN:HD21	1.95	0.77
1:N:357:ILE:HG22	1:N:359:PRO:HD3	1.66	0.77
1:T:116:SER:HB3	1:T:133:ASN:N	1.97	0.77
4:X:433:PRO:HD2	4:X:437:ARG:HH11	1.48	0.77
4:Y:978:ALA:HB2	4:Y:1083:TYR:HD2	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:358:LEU:HB2	1:B:417:PHE:CD2	2.20	0.77
1:D:472:ARG:HH21	1:F:530:ARG:HE	1.29	0.77
1:F:277:ASP:C	1:F:278:THR:CG2	2.58	0.77
1:H:358:LEU:HB2	1:H:417:PHE:CD2	2.20	0.77
1:J:195:PRO:HD3	1:N:566:TRP:CE2	2.19	0.77
1:P:358:LEU:HB2	1:P:417:PHE:CD2	2.19	0.77
1:Q:28:SER:CB	1:R:216:PRO:HD2	2.14	0.77
1:R:106:ILE:HD11	1:R:152:ARG:HG3	1.65	0.77
1:R:277:ASP:C	1:R:278:THR:CG2	2.58	0.77
2:V:195:GLN:HE22	4:Y:377:ILE:HB	1.48	0.77
1:B:87:PHE:HZ	1:B:235:LEU:HD12	1.50	0.77
1:B:189:PHE:CE1	1:B:193:ILE:HD11	2.19	0.77
1:D:317:ARG:HH11	1:D:448:PRO:HB2	1.50	0.77
1:F:358:LEU:HB2	1:F:417:PHE:CE2	2.20	0.77
1:H:49:ARG:HB2	1:H:64:VAL:HG22	1.67	0.77
1:J:116:SER:HB3	1:J:133:ASN:N	1.97	0.77
1:R:416:ARG:HB2	1:T:298:PHE:CE1	2.20	0.77
1:R:519:ASN:O	1:R:523:ASP:HB2	1.85	0.77
1:T:106:ILE:HD11	1:T:152:ARG:HG3	1.65	0.77
1:T:274:ILE:CD1	1:T:514:LEU:HD22	2.10	0.77
1:T:443:PHE:CE1	1:T:459:LEU:HD21	2.20	0.77
4:Y:419:ILE:CD1	4:Y:662:LEU:HB2	2.15	0.77
1:B:519:ASN:O	1:B:523:ASP:HB2	1.85	0.76
1:D:116:SER:HB3	1:D:133:ASN:N	1.97	0.76
1:F:49:ARG:HB2	1:F:64:VAL:HG22	1.66	0.76
1:F:416:ARG:HB2	1:H:298:PHE:CE1	2.20	0.76
1:J:298:PHE:CE1	1:N:416:ARG:HB2	2.20	0.76
1:L:308:ALA:HB1	1:L:383:GLN:HE21	1.49	0.76
1:N:358:LEU:HB2	1:N:417:PHE:CE2	2.20	0.76
1:P:358:LEU:HB2	1:P:417:PHE:CE2	2.20	0.76
1:R:87:PHE:HZ	1:R:235:LEU:HD12	1.50	0.76
4:X:979:ARG:HB3	4:X:979:ARG:HH11	1.50	0.76
4:Y:355:LYS:HZ1	4:Y:1156:THR:CG2	1.95	0.76
1:B:358:LEU:HB2	1:B:417:PHE:CE2	2.20	0.76
1:F:238:VAL:CG2	1:H:78:MET:CE	2.59	0.76
1:H:137:ILE:HG12	1:H:142:ILE:HG13	1.66	0.76
1:H:341:MET:HA	1:H:341:MET:CE	2.15	0.76
1:I:34:ILE:HB	1:N:613:LEU:HD11	1.65	0.76
1:J:358:LEU:HB2	1:J:417:PHE:CE2	2.20	0.76
5:K:649:MYR:H143	5:K:649:MYR:C10	2.11	0.76
1:L:358:LEU:HB2	1:L:417:PHE:CE2	2.20	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:317:ARG:HH11	1:N:448:PRO:HB2	1.50	0.76
1:P:298:PHE:CE1	1:T:416:ARG:HB2	2.20	0.76
1:P:539:ILE:HD12	1:P:573:ALA:HB2	1.67	0.76
1:R:539:ILE:HD12	1:R:573:ALA:HB2	1.67	0.76
4:Y:309:LEU:HD22	4:Y:402:TYR:HB2	1.68	0.76
4:Y:440:ILE:HG13	4:Y:1202:PRO:HG2	1.66	0.76
4:Y:776:GLN:O	4:Y:779:VAL:HG12	1.85	0.76
1:C:28:SER:CB	1:D:216:PRO:HD2	2.14	0.76
1:D:87:PHE:HZ	1:D:235:LEU:HD12	1.50	0.76
1:D:539:ILE:HD12	1:D:573:ALA:HB2	1.67	0.76
1:F:57:THR:HG22	1:F:58:ILE:H	1.50	0.76
1:F:189:PHE:CE1	1:F:193:ILE:HD11	2.19	0.76
1:H:118:TYR:HE1	1:H:130:PRO:HB3	1.51	0.76
1:H:519:ASN:O	1:H:523:ASP:HB2	1.85	0.76
1:J:409:ILE:HD13	1:L:297:ALA:O	1.83	0.76
1:R:358:LEU:HB2	1:R:417:PHE:CE2	2.20	0.76
2:U:106:ILE:HD12	2:U:107:GLN:N	2.00	0.76
4:Y:266:PRO:HB2	4:Y:1085:LEU:HD11	1.66	0.76
4:Y:634:GLN:H	4:Y:634:GLN:CD	1.92	0.76
1:D:519:ASN:O	1:D:523:ASP:HB2	1.85	0.76
1:G:8:VAL:HG11	1:H:206:GLU:OE2	1.86	0.76
1:H:189:PHE:CE1	1:H:193:ILE:HD11	2.19	0.76
1:J:78:MET:HE2	1:N:238:VAL:HG11	1.65	0.76
1:J:416:ARG:HB2	1:L:298:PHE:CE1	2.20	0.76
5:K:649:MYR:C2	1:L:191:LYS:HZ3	1.92	0.76
1:T:57:THR:HG22	1:T:58:ILE:H	1.50	0.76
1:T:189:PHE:CE1	1:T:193:ILE:HD11	2.19	0.76
1:T:358:LEU:HB2	1:T:417:PHE:CE2	2.20	0.76
2:U:26:LEU:HD11	2:U:90:ILE:HG21	1.66	0.76
2:V:195:GLN:HE22	4:Y:377:ILE:CB	1.98	0.76
4:X:902:MET:HE3	4:X:929:PRO:HG3	1.67	0.76
1:B:317:ARG:HH11	1:B:448:PRO:HB2	1.50	0.76
5:E:649:MYR:H21	1:F:191:LYS:CE	2.16	0.76
1:H:57:THR:HG22	1:H:58:ILE:H	1.50	0.76
1:J:137:ILE:HG12	1:J:142:ILE:HG13	1.67	0.76
1:J:179:ALA:HB1	1:J:635:GLN:NE2	2.01	0.76
1:L:57:THR:HG22	1:L:58:ILE:H	1.50	0.76
1:R:358:LEU:HB2	1:R:417:PHE:CD2	2.20	0.76
1:T:49:ARG:HB2	1:T:64:VAL:HG22	1.67	0.76
4:X:545:LEU:HD12	4:X:815:PRO:HG3	1.66	0.76
4:Y:207:LEU:O	4:Y:207:LEU:HD23	1.84	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:385:VAL:HG22	4:Y:386:GLU:N	2.00	0.76
4:Y:626:LEU:HA	4:Y:647:ARG:HH21	1.49	0.76
1:D:106:ILE:HD11	1:D:152:ARG:HG3	1.66	0.76
1:D:179:ALA:HB1	1:D:635:GLN:HE21	1.51	0.76
1:F:519:ASN:O	1:F:523:ASP:HB2	1.85	0.76
1:J:179:ALA:HB1	1:J:635:GLN:HE21	1.51	0.76
1:J:317:ARG:HH11	1:J:448:PRO:HB2	1.50	0.76
1:N:179:ALA:HB1	1:N:635:GLN:NE2	2.01	0.76
1:N:519:ASN:O	1:N:523:ASP:HB2	1.85	0.76
4:X:1156:THR:HG22	4:X:1161:ASN:HB3	1.68	0.76
4:Y:1101:GLU:HA	4:Y:1104:LEU:HD23	1.67	0.76
1:B:118:TYR:HE1	1:B:130:PRO:HB3	1.51	0.76
1:B:179:ALA:HB1	1:B:635:GLN:NE2	2.01	0.76
1:F:139:THR:O	1:F:142:ILE:HG22	1.85	0.76
1:F:139:THR:HA	1:F:142:ILE:CG2	2.15	0.76
1:F:179:ALA:HB1	1:F:635:GLN:HE21	1.51	0.76
1:H:330:GLN:NE2	1:H:332:GLY:HA2	2.01	0.76
1:H:358:LEU:HB2	1:H:417:PHE:CE2	2.20	0.76
1:N:277:ASP:C	1:N:278:THR:CG2	2.58	0.76
1:N:330:GLN:NE2	1:N:332:GLY:HA2	2.01	0.76
5:O:649:MYR:C2	1:P:191:LYS:NZ	2.48	0.76
5:Q:649:MYR:H21	1:R:191:LYS:CE	2.16	0.76
2:U:41:PHE:CE1	4:X:404:MET:HE1	2.21	0.76
2:U:327:ASP:H	2:U:399:GLN:HG3	1.49	0.76
4:X:201:CYS:O	4:X:391:CYS:HB2	1.86	0.76
4:X:1124:VAL:HG12	4:X:1153:SER:OG	1.86	0.76
1:C:8:VAL:HG11	1:D:206:GLU:OE2	1.86	0.76
1:D:58:ILE:H	1:D:58:ILE:CD1	1.99	0.76
1:H:357:ILE:HG22	1:H:359:PRO:HD3	1.66	0.76
1:N:49:ARG:HB2	1:N:64:VAL:HG22	1.67	0.76
1:P:443:PHE:CE1	1:P:459:LEU:HD21	2.20	0.76
3:W:1074:THR:HG22	3:W:1075:PRO:CD	2.16	0.76
4:X:271:VAL:HG11	4:X:1114:PRO:HD3	1.68	0.76
1:D:56:ALA:HB1	1:D:61:LEU:HD21	1.68	0.76
1:F:179:ALA:HB1	1:F:635:GLN:NE2	2.01	0.76
1:F:358:LEU:HB2	1:F:417:PHE:CD2	2.20	0.76
1:H:87:PHE:HZ	1:H:235:LEU:HD12	1.50	0.76
1:H:179:ALA:HB1	1:H:635:GLN:NE2	2.01	0.76
1:P:179:ALA:HB1	1:P:635:GLN:HE21	1.51	0.76
1:P:317:ARG:HH11	1:P:448:PRO:HB2	1.50	0.76
1:P:519:ASN:O	1:P:523:ASP:HB2	1.85	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:613:LEU:HD11	1:Q:34:ILE:HB	1.65	0.76
1:R:238:VAL:CG2	1:T:78:MET:CE	2.59	0.76
3:W:424:SER:CB	3:W:425:PRO:HD3	2.16	0.76
5:A:649:MYR:C2	1:B:191:LYS:NZ	2.48	0.76
1:B:179:ALA:HB1	1:B:635:GLN:HE21	1.51	0.76
1:B:449:THR:HG22	1:B:450:SER:N	2.01	0.76
1:D:238:VAL:CA	1:F:142:ILE:HD11	2.07	0.76
1:D:277:ASP:C	1:D:278:THR:CG2	2.58	0.76
1:D:416:ARG:HB2	1:F:298:PHE:CE1	2.20	0.76
1:H:317:ARG:HH11	1:H:448:PRO:HB2	1.50	0.76
1:I:8:VAL:HG11	1:J:206:GLU:OE2	1.86	0.76
1:J:87:PHE:HZ	1:J:235:LEU:HD12	1.50	0.76
1:J:443:PHE:CE1	1:J:459:LEU:HD21	2.20	0.76
1:J:530:ARG:HE	1:N:472:ARG:HH21	1.29	0.76
1:L:118:TYR:HE1	1:L:130:PRO:HB3	1.51	0.76
1:L:179:ALA:HB1	1:L:635:GLN:HE21	1.51	0.76
1:P:277:ASP:C	1:P:278:THR:CG2	2.58	0.76
1:R:238:VAL:HG22	1:T:142:ILE:HD11	1.68	0.76
4:X:364:ILE:HG13	4:X:367:ARG:HH21	1.51	0.76
1:E:28:SER:CB	1:F:216:PRO:HD2	2.15	0.75
1:L:357:ILE:HG22	1:L:359:PRO:HD3	1.66	0.75
1:N:179:ALA:HB1	1:N:635:GLN:HE21	1.51	0.75
1:P:416:ARG:HB2	1:R:298:PHE:CE1	2.20	0.75
1:R:49:ARG:HB2	1:R:64:VAL:HG22	1.66	0.75
1:T:179:ALA:HB1	1:T:635:GLN:NE2	2.01	0.75
4:Y:124:ALA:HB2	4:Y:168:ARG:HE	1.51	0.75
4:Y:1211:ARG:HG2	4:Y:1211:ARG:HH11	1.50	0.75
1:D:358:LEU:HB2	1:D:417:PHE:CE2	2.20	0.75
1:F:330:GLN:NE2	1:F:332:GLY:HA2	2.01	0.75
1:H:308:ALA:HB1	1:H:383:GLN:HE21	1.49	0.75
1:K:8:VAL:HG11	1:L:206:GLU:OE2	1.86	0.75
1:L:540:VAL:HG21	1:L:566:TRP:CE3	2.22	0.75
1:M:8:VAL:HG11	1:N:206:GLU:OE2	1.86	0.75
1:R:609:ARG:HB3	1:S:29:THR:CG2	2.14	0.75
1:S:8:VAL:HG11	1:T:206:GLU:OE2	1.86	0.75
1:T:118:TYR:HE1	1:T:130:PRO:HB3	1.51	0.75
2:V:2:ALA:HB2	4:Y:373:ARG:HH12	1.51	0.75
2:V:18:ALA:HB1	2:V:19:PRO:HD2	1.67	0.75
2:V:184:HIS:CD2	4:Y:436:LEU:HD13	2.22	0.75
4:X:1087:TYR:HA	4:X:1119:ILE:O	1.86	0.75
1:F:317:ARG:HH11	1:F:448:PRO:HB2	1.50	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:540:VAL:HG21	1:F:566:TRP:CE3	2.22	0.75
1:J:525:ILE:HD12	1:J:604:VAL:HG13	1.69	0.75
1:L:519:ASN:O	1:L:523:ASP:HB2	1.85	0.75
1:N:525:ILE:HD12	1:N:604:VAL:HG13	1.69	0.75
1:P:357:ILE:HG22	1:P:359:PRO:HD3	1.66	0.75
1:T:317:ARG:HH11	1:T:448:PRO:HB2	1.51	0.75
2:U:37:TRP:CZ3	2:U:72:LEU:HD11	2.20	0.75
4:X:528:PHE:HE1	4:X:575:MET:CE	1.99	0.75
1:B:116:SER:HB3	1:B:133:ASN:N	1.97	0.75
1:D:52:GLY:O	1:D:53:THR:CB	2.35	0.75
1:D:179:ALA:HB1	1:D:635:GLN:NE2	2.01	0.75
1:F:449:THR:HG22	1:F:450:SER:N	2.01	0.75
1:H:277:ASP:C	1:H:278:THR:CG2	2.58	0.75
1:J:118:TYR:HE1	1:J:130:PRO:HB3	1.51	0.75
1:J:330:GLN:NE2	1:J:332:GLY:HA2	2.01	0.75
1:J:519:ASN:O	1:J:523:ASP:HB2	1.85	0.75
1:L:87:PHE:HZ	1:L:235:LEU:HD12	1.50	0.75
4:X:208:ASP:HB2	4:X:236:PRO:HB2	1.68	0.75
1:B:357:ILE:HG22	1:B:359:PRO:HD3	1.66	0.75
1:D:152:ARG:HH11	1:D:152:ARG:CA	1.98	0.75
1:H:449:THR:HG22	1:H:450:SER:N	2.01	0.75
1:H:525:ILE:HD12	1:H:604:VAL:HG13	1.68	0.75
1:L:179:ALA:HB1	1:L:635:GLN:NE2	2.01	0.75
1:L:525:ILE:HD12	1:L:604:VAL:HG13	1.69	0.75
1:N:449:THR:HG22	1:N:450:SER:N	2.01	0.75
1:P:179:ALA:HB1	1:P:635:GLN:NE2	2.01	0.75
1:Q:8:VAL:HG11	1:R:206:GLU:OE2	1.86	0.75
1:R:330:GLN:NE2	1:R:332:GLY:HA2	2.01	0.75
2:V:175:MET:HG3	2:V:175:MET:O	1.86	0.75
2:V:250:TRP:CE3	4:Y:956:HIS:HE1	2.04	0.75
4:X:194:ILE:HG21	4:X:1201:TYR:CE1	2.21	0.75
4:X:330:ILE:HG21	4:X:347:ARG:HD2	1.69	0.75
4:X:409:MET:O	4:X:443:PRO:HA	1.86	0.75
1:B:339:ILE:HD13	1:B:349:LEU:CD2	2.17	0.75
1:F:87:PHE:HZ	1:F:235:LEU:HD12	1.50	0.75
1:F:539:ILE:HD12	1:F:573:ALA:HB2	1.67	0.75
1:H:179:ALA:HB1	1:H:635:GLN:HE21	1.51	0.75
5:K:649:MYR:H21	1:L:191:LYS:CE	2.16	0.75
1:L:330:GLN:NE2	1:L:332:GLY:HA2	2.01	0.75
1:P:330:GLN:NE2	1:P:332:GLY:HA2	2.01	0.75
1:P:339:ILE:HD13	1:P:349:LEU:CD2	2.17	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:160:GLU:OE1	2:U:209:ARG:HD2	1.87	0.75
2:U:331:VAL:HB	2:U:332:PRO:HD3	1.68	0.75
3:W:19:ARG:HA	3:W:282:VAL:O	1.87	0.75
3:W:1040:VAL:CB	3:W:1041:PRO:HD3	2.17	0.75
4:X:780:ILE:HD12	4:X:938:TYR:HD2	1.52	0.75
4:Y:567:LEU:HD23	4:Y:708:PHE:CD1	2.21	0.75
1:B:330:GLN:NE2	1:B:332:GLY:HA2	2.01	0.75
1:B:375:LEU:HD23	1:B:437:ILE:CD1	2.15	0.75
1:B:525:ILE:HD12	1:B:604:VAL:HG13	1.69	0.75
1:D:330:GLN:NE2	1:D:332:GLY:HA2	2.01	0.75
1:E:8:VAL:HG11	1:F:206:GLU:OE2	1.86	0.75
1:J:540:VAL:HG21	1:J:566:TRP:CE3	2.22	0.75
1:L:291:PRO:HB3	1:L:467:THR:CG2	2.16	0.75
1:L:449:THR:HG22	1:L:450:SER:N	2.01	0.75
1:N:341:MET:HA	1:N:341:MET:CE	2.15	0.75
1:O:8:VAL:HG11	1:P:206:GLU:OE2	1.86	0.75
1:T:308:ALA:HB1	1:T:383:GLN:HE21	1.49	0.75
1:T:330:GLN:NE2	1:T:332:GLY:HA2	2.01	0.75
1:T:339:ILE:HD13	1:T:349:LEU:CD2	2.17	0.75
1:T:540:VAL:HG21	1:T:566:TRP:CE3	2.22	0.75
2:U:158:HIS:HE1	2:U:160:GLU:HG3	1.51	0.75
3:W:914:VAL:HG12	3:W:918:ILE:HG13	1.68	0.75
4:X:232:THR:HG21	4:X:338:GLU:OE2	1.85	0.75
4:Y:212:SER:HB2	4:Y:238:GLY:HA2	1.67	0.75
4:Y:978:ALA:HB2	4:Y:1083:TYR:CD2	2.21	0.75
1:B:308:ALA:HB1	1:B:383:GLN:HE21	1.49	0.75
1:D:53:THR:O	1:D:54:SER:OG	2.03	0.75
1:H:540:VAL:HG21	1:H:566:TRP:CE3	2.22	0.75
1:J:469:VAL:CG2	1:L:575:MET:CE	2.43	0.75
1:L:49:ARG:HB2	1:L:64:VAL:HG22	1.66	0.75
1:N:339:ILE:HD13	1:N:349:LEU:CD2	2.17	0.75
1:P:525:ILE:HD12	1:P:604:VAL:HG13	1.69	0.75
1:Q:13:ILE:HD11	5:Q:649:MYR:H111	1.69	0.75
1:R:274:ILE:CD1	1:R:514:LEU:HD22	2.10	0.75
1:T:411:VAL:O	1:T:412:ARG:HB2	1.87	0.75
2:V:192:PHE:CB	4:Y:376:LEU:CD2	2.64	0.75
4:Y:714:SER:OG	4:Y:717:MET:HG2	1.85	0.75
1:A:8:VAL:HG11	1:B:206:GLU:OE2	1.86	0.75
1:D:525:ILE:HD12	1:D:604:VAL:HG13	1.69	0.75
1:H:539:ILE:HD12	1:H:573:ALA:HB2	1.67	0.75
1:J:238:VAL:CG2	1:L:78:MET:CE	2.59	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:271:LEU:HD11	1:J:516:LYS:HB2	1.69	0.75
1:L:317:ARG:HH11	1:L:448:PRO:HB2	1.50	0.75
1:L:339:ILE:HD13	1:L:349:LEU:CD2	2.17	0.75
1:T:102:GLY:O	3:W:407:ALA:HB2	1.87	0.75
3:W:676:ARG:HB2	3:W:1081:VAL:HG11	1.68	0.75
1:C:33:ALA:CB	1:H:260:SER:HB3	2.17	0.74
1:F:291:PRO:HB3	1:F:467:THR:CG2	2.17	0.74
1:J:449:THR:HG22	1:J:450:SER:N	2.01	0.74
1:N:469:VAL:O	1:N:470:LEU:HB2	1.87	0.74
1:T:519:ASN:O	1:T:523:ASP:HB2	1.85	0.74
2:U:241:LEU:C	4:X:1179:VAL:CG1	2.61	0.74
3:W:1233:ARG:O	3:W:1291:ALA:HB1	1.86	0.74
4:X:709:ILE:HD11	4:X:730:THR:HG23	1.67	0.74
1:B:539:ILE:HD12	1:B:573:ALA:HB2	1.67	0.74
1:J:341:MET:HA	1:J:341:MET:CE	2.15	0.74
1:N:118:TYR:HE1	1:N:130:PRO:HB3	1.51	0.74
1:N:161:LYS:C	1:N:161:LYS:CD	2.54	0.74
1:N:291:PRO:HB3	1:N:467:THR:CG2	2.17	0.74
1:R:271:LEU:HD11	1:R:516:LYS:HB2	1.69	0.74
1:R:525:ILE:HD12	1:R:604:VAL:HG13	1.69	0.74
3:W:517:ALA:HB2	3:W:575:PHE:CD2	2.22	0.74
3:W:1206:TYR:CE1	3:W:1222:PRO:HB3	2.21	0.74
4:X:497:ILE:HD13	4:X:514:ILE:HD12	1.68	0.74
4:X:1017:PHE:HD1	4:Y:1210:VAL:O	1.70	0.74
4:X:1052:LEU:O	4:X:1052:LEU:HD13	1.87	0.74
4:Y:300:MET:HE1	4:Y:975:PHE:CD2	2.22	0.74
4:Y:1033:ASP:HB2	4:Y:1039:ARG:HG2	1.68	0.74
1:D:449:THR:HG22	1:D:450:SER:N	2.01	0.74
1:F:469:VAL:O	1:F:470:LEU:HB2	1.87	0.74
1:O:33:ALA:CB	1:T:260:SER:HB3	2.17	0.74
1:P:118:TYR:HE1	1:P:130:PRO:HB3	1.51	0.74
1:R:179:ALA:HB1	1:R:635:GLN:NE2	2.01	0.74
1:R:540:VAL:HG21	1:R:566:TRP:CE3	2.22	0.74
2:U:35:ARG:CD	4:X:449:GLU:HG2	2.18	0.74
3:W:145:ASP:O	3:W:148:ILE:HG22	1.87	0.74
3:W:400:LEU:HD23	3:W:400:LEU:O	1.87	0.74
4:X:559:HIS:HD2	4:X:562:SER:OG	1.69	0.74
4:X:655:GLU:CD	4:X:655:GLU:N	2.43	0.74
1:B:411:VAL:O	1:B:412:ARG:HB2	1.87	0.74
1:B:540:VAL:HG21	1:B:566:TRP:CE3	2.22	0.74
1:D:540:VAL:HG21	1:D:566:TRP:CE3	2.22	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:375:LEU:HD23	1:F:437:ILE:CD1	2.15	0.74
1:F:428:ARG:HG2	1:F:428:ARG:NH1	2.03	0.74
1:L:92:TRP:NE1	1:L:156:VAL:HG21	2.03	0.74
1:N:57:THR:HG22	1:N:58:ILE:H	1.50	0.74
1:R:57:THR:HG22	1:R:58:ILE:H	1.50	0.74
1:R:179:ALA:HB1	1:R:635:GLN:HE21	1.51	0.74
1:T:179:ALA:HB1	1:T:635:GLN:HE21	1.51	0.74
4:X:226:MET:HB3	4:X:231:MET:O	1.87	0.74
4:X:864:PHE:CE1	4:X:952:PRO:HG3	2.22	0.74
1:D:50:PRO:CG	1:D:56:ALA:HB2	2.17	0.74
1:H:411:VAL:O	1:H:412:ARG:HB2	1.87	0.74
1:H:469:VAL:O	1:H:470:LEU:HB2	1.87	0.74
1:J:354:SER:HB2	1:J:419:MET:HA	1.70	0.74
1:L:539:ILE:HD12	1:L:573:ALA:HB2	1.67	0.74
1:P:46:LYS:HZ3	1:T:237:GLU:CD	1.96	0.74
1:P:260:SER:HB3	1:Q:33:ALA:CB	2.17	0.74
1:R:339:ILE:HD13	1:R:349:LEU:CD2	2.17	0.74
1:R:449:THR:HG22	1:R:450:SER:N	2.01	0.74
5:S:649:MYR:H143	5:S:649:MYR:C10	2.12	0.74
1:T:539:ILE:HD12	1:T:573:ALA:HB2	1.67	0.74
3:W:971:VAL:CG1	3:W:972:PRO:HD3	2.10	0.74
4:X:801:ARG:HD3	4:X:939:LEU:CD1	2.18	0.74
4:Y:231:MET:HE3	4:Y:347:ARG:HH12	1.51	0.74
1:D:339:ILE:HD13	1:D:349:LEU:CD2	2.17	0.74
1:F:435:PRO:HG2	1:N:436:TYR:CZ	2.22	0.74
5:G:649:MYR:H143	5:G:649:MYR:C10	2.12	0.74
1:I:33:ALA:CB	1:N:260:SER:HB3	2.17	0.74
1:J:260:SER:HB3	1:K:33:ALA:CB	2.17	0.74
1:J:411:VAL:O	1:J:412:ARG:HB2	1.87	0.74
1:T:271:LEU:HD11	1:T:516:LYS:HB2	1.69	0.74
3:W:394:ALA:HB3	3:W:792:THR:HG22	1.67	0.74
3:W:1274:ALA:HB3	3:W:1286:THR:HG23	1.69	0.74
4:X:462:ILE:HD11	4:X:468:ALA:O	1.87	0.74
4:X:827:THR:CG2	4:X:828:GLU:H	1.98	0.74
1:D:92:TRP:NE1	1:D:156:VAL:HG21	2.03	0.74
1:K:13:ILE:HD11	5:K:649:MYR:H111	1.69	0.74
1:L:138:SER:O	1:L:142:ILE:HG23	1.87	0.74
1:N:92:TRP:NE1	1:N:156:VAL:HG21	2.03	0.74
1:R:469:VAL:O	1:R:470:LEU:HB2	1.87	0.74
3:W:313:LEU:CD1	3:W:318:VAL:HG11	2.17	0.74
4:X:513:GLU:OE2	4:X:560:LEU:HB3	1.87	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:203:SER:HB2	4:Y:247:THR:HA	1.67	0.74
1:D:356:THR:HG21	1:H:412:ARG:HH22	1.53	0.74
1:F:525:ILE:HD12	1:F:604:VAL:HG13	1.69	0.74
1:H:354:SER:HB2	1:H:419:MET:HA	1.69	0.74
1:J:469:VAL:O	1:J:470:LEU:HB2	1.88	0.74
1:L:178:SER:HB2	1:Q:3:ASN:ND2	2.01	0.74
1:P:411:VAL:O	1:P:412:ARG:HB2	1.87	0.74
1:P:449:THR:HG22	1:P:450:SER:N	2.01	0.74
1:R:317:ARG:HH11	1:R:448:PRO:HB2	1.51	0.74
1:T:449:THR:HG22	1:T:450:SER:N	2.01	0.74
2:U:176:ALA:CB	4:X:413:PRO:HD2	2.17	0.74
2:U:232:PHE:HB3	2:U:248:LEU:HD11	1.69	0.74
4:X:356:ASN:HD21	4:X:1151:ALA:HB1	1.50	0.74
4:X:652:GLN:HE22	4:X:773:ARG:HE	1.34	0.74
1:D:260:SER:HB3	1:E:33:ALA:CB	2.17	0.74
1:D:372:ALA:CB	1:D:399:ALA:HA	2.18	0.74
1:D:411:VAL:O	1:D:412:ARG:HB2	1.87	0.74
1:F:609:ARG:HB3	1:G:29:THR:CG2	2.14	0.74
1:H:92:TRP:NE1	1:H:156:VAL:HG21	2.03	0.74
1:H:339:ILE:HD13	1:H:349:LEU:CD2	2.17	0.74
1:J:339:ILE:HD13	1:J:349:LEU:CD2	2.17	0.74
1:J:372:ALA:CB	1:J:399:ALA:HA	2.18	0.74
1:J:539:ILE:HD12	1:J:573:ALA:HB2	1.67	0.74
1:N:87:PHE:HZ	1:N:235:LEU:HD12	1.50	0.74
1:N:539:ILE:HD12	1:N:573:ALA:HB2	1.67	0.74
1:P:637:PHE:HE2	1:T:545:VAL:CG2	2.01	0.74
4:X:1130:ALA:CB	4:Y:104:GLN:HB3	2.17	0.74
4:Y:413:PRO:HB2	4:Y:434:ILE:HD13	1.68	0.74
1:D:69:GLY:HA3	1:D:139:THR:HB	1.70	0.74
1:D:271:LEU:HD11	1:D:516:LYS:HB2	1.69	0.74
1:L:238:VAL:CG2	1:N:78:MET:CE	2.59	0.74
1:P:412:ARG:HH22	1:R:356:THR:HG21	1.53	0.74
1:P:540:VAL:HG21	1:P:566:TRP:CE3	2.22	0.74
1:R:372:ALA:CB	1:R:399:ALA:HA	2.18	0.74
1:R:472:ARG:NH2	1:T:530:ARG:NE	2.32	0.74
2:U:52:PRO:HB3	4:X:963:GLN:NE2	2.03	0.74
4:X:957:ILE:C	4:X:959:ARG:H	1.96	0.74
4:Y:322:THR:HG21	4:Y:348:ALA:HB2	1.70	0.74
1:B:341:MET:HA	1:B:341:MET:CE	2.15	0.73
1:D:121:ALA:CB	1:H:87:PHE:CE1	2.71	0.73
1:D:469:VAL:O	1:D:470:LEU:HB2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:118:TYR:HE1	1:F:130:PRO:HB3	1.51	0.73
1:F:382:ILE:HA	1:F:385:VAL:HG12	1.70	0.73
1:I:29:THR:CG2	1:N:609:ARG:HB3	2.14	0.73
1:J:87:PHE:CE1	1:L:121:ALA:CB	2.71	0.73
1:J:412:ARG:HH22	1:L:356:THR:HG21	1.53	0.73
1:L:372:ALA:CB	1:L:399:ALA:HA	2.18	0.73
1:L:469:VAL:O	1:L:470:LEU:HB2	1.87	0.73
1:M:13:ILE:HD11	5:M:649:MYR:H111	1.70	0.73
1:N:372:ALA:CB	1:N:399:ALA:HA	2.18	0.73
5:S:649:MYR:H142	5:S:649:MYR:C10	2.11	0.73
3:W:736:VAL:HG21	3:W:780:LEU:CD2	2.18	0.73
3:W:1038:ASN:HD22	3:W:1049:ALA:CB	1.99	0.73
4:X:606:MET:HE3	4:Y:718:THR:HG21	1.67	0.73
4:Y:985:VAL:HG12	4:Y:1073:ARG:HB3	1.68	0.73
1:D:87:PHE:CE1	1:F:121:ALA:CB	2.71	0.73
1:D:354:SER:HB2	1:D:419:MET:HA	1.70	0.73
1:J:46:LYS:HZ3	1:N:237:GLU:CD	1.96	0.73
1:J:58:ILE:CG2	1:J:124:GLY:HA2	2.18	0.73
1:J:121:ALA:CB	1:N:87:PHE:CE1	2.71	0.73
5:K:649:MYR:H142	5:K:649:MYR:C10	2.10	0.73
1:P:469:VAL:O	1:P:470:LEU:HB2	1.88	0.73
1:Q:9:ASN:HD21	1:R:206:GLU:HA	1.53	0.73
1:R:92:TRP:NE1	1:R:156:VAL:HG21	2.03	0.73
1:T:87:PHE:HZ	1:T:235:LEU:HD12	1.50	0.73
1:T:291:PRO:HB3	1:T:467:THR:CG2	2.16	0.73
2:U:251:ASN:CG	2:U:252:ASP:H	1.94	0.73
3:W:157:GLN:O	3:W:157:GLN:HG2	1.86	0.73
3:W:1078:VAL:HG21	3:W:1087:LEU:HB3	1.68	0.73
1:B:372:ALA:CB	1:B:399:ALA:HA	2.18	0.73
1:D:118:TYR:HE1	1:D:130:PRO:HB3	1.51	0.73
1:D:382:ILE:HA	1:D:385:VAL:HG12	1.70	0.73
1:E:13:ILE:HD11	5:E:649:MYR:H111	1.69	0.73
1:F:372:ALA:CB	1:F:399:ALA:HA	2.18	0.73
1:F:545:VAL:CG2	1:H:637:PHE:HE2	2.01	0.73
1:H:382:ILE:HA	1:H:385:VAL:HG12	1.70	0.73
1:J:49:ARG:HG3	1:J:64:VAL:HG21	1.70	0.73
1:L:87:PHE:CE1	1:N:121:ALA:CB	2.71	0.73
1:N:540:VAL:HG21	1:N:566:TRP:CE3	2.22	0.73
1:R:341:MET:HA	1:R:341:MET:CE	2.15	0.73
4:Y:202:THR:HG22	4:Y:391:CYS:HA	1.71	0.73
4:Y:486:LEU:HD22	4:Y:488:LEU:HD12	1.70	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:78:MET:CE	1:H:238:VAL:CG2	2.59	0.73
1:F:48:TRP:CH2	1:F:122:THR:HA	2.24	0.73
1:H:271:LEU:HD11	1:H:516:LYS:HB2	1.69	0.73
1:L:271:LEU:HD11	1:L:516:LYS:HB2	1.69	0.73
1:P:356:THR:HG21	1:T:412:ARG:HH22	1.53	0.73
1:R:118:TYR:HE1	1:R:130:PRO:HB3	1.51	0.73
1:T:525:ILE:HD12	1:T:604:VAL:HG13	1.69	0.73
1:A:13:ILE:HD11	5:A:649:MYR:H111	1.70	0.73
1:D:164:ASP:OD2	1:H:534:SER:HB3	1.89	0.73
1:F:339:ILE:HD13	1:F:349:LEU:CD2	2.17	0.73
1:L:375:LEU:HD23	1:L:437:ILE:CD1	2.15	0.73
1:L:469:VAL:CG2	1:N:575:MET:CE	2.43	0.73
1:R:48:TRP:CH2	1:R:122:THR:HA	2.24	0.73
3:W:989:HIS:CE1	3:W:1027:HIS:HD1	2.06	0.73
4:Y:374:ALA:HB1	4:Y:377:ILE:CD1	2.16	0.73
1:B:271:LEU:HD11	1:B:516:LYS:HB2	1.69	0.73
1:D:534:SER:HB3	1:F:164:ASP:OD2	1.89	0.73
1:H:48:TRP:CH2	1:H:122:THR:HA	2.23	0.73
1:H:644:LEU:O	1:H:646:PRO:HD3	1.89	0.73
1:L:411:VAL:O	1:L:412:ARG:HB2	1.87	0.73
1:P:48:TRP:CH2	1:P:122:THR:HA	2.23	0.73
4:X:976:ASN:HA	4:X:1083:TYR:HE1	1.54	0.73
4:Y:122:CYS:SG	4:Y:140:HIS:CE1	2.79	0.73
1:B:354:SER:HB2	1:B:419:MET:HA	1.69	0.73
1:P:92:TRP:NE1	1:P:156:VAL:HG21	2.03	0.73
1:P:372:ALA:CB	1:P:399:ALA:HA	2.18	0.73
1:R:411:VAL:O	1:R:412:ARG:HB2	1.87	0.73
1:T:92:TRP:NE1	1:T:156:VAL:HG21	2.03	0.73
1:T:372:ALA:CB	1:T:399:ALA:HA	2.18	0.73
2:U:61:VAL:HG12	2:U:276:HIS:HA	1.71	0.73
1:B:469:VAL:O	1:B:470:LEU:HB2	1.87	0.73
1:F:644:LEU:O	1:F:646:PRO:HD3	1.89	0.73
1:J:92:TRP:NE1	1:J:156:VAL:HG21	2.03	0.73
1:J:534:SER:HB3	1:L:164:ASP:OD2	1.89	0.73
1:L:644:LEU:O	1:L:646:PRO:HD3	1.89	0.73
1:R:291:PRO:HB3	1:R:467:THR:CG2	2.16	0.73
4:X:996:MET:O	4:X:998:PRO:HD3	1.88	0.73
4:X:1170:PRO:HD2	4:X:1189:THR:CG2	2.19	0.73
1:B:48:TRP:CH2	1:B:122:THR:HA	2.24	0.73
1:J:48:TRP:CH2	1:J:122:THR:HA	2.24	0.73
1:P:87:PHE:CE1	1:R:121:ALA:CB	2.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:291:PRO:HB3	1:P:467:THR:CG2	2.16	0.73
1:R:534:SER:HB3	1:T:164:ASP:OD2	1.89	0.73
1:T:368:THR:HG22	1:T:446:PRO:HG3	1.71	0.73
1:T:382:ILE:HA	1:T:385:VAL:HG12	1.70	0.73
2:U:268:ARG:HG2	2:U:327:ASP:OD1	1.89	0.73
3:W:30:LEU:HG	3:W:118:LEU:HD11	1.70	0.73
3:W:558:VAL:HG22	3:W:560:HIS:H	1.54	0.73
4:X:899:ALA:O	4:X:903:HIS:HB2	1.89	0.73
4:X:980:GLY:HA3	4:X:1140:GLU:HB2	1.68	0.73
4:Y:331:ARG:HD3	4:Y:387:CYS:SG	2.29	0.73
4:Y:980:GLY:HA3	4:Y:1140:GLU:HG2	1.70	0.73
1:D:368:THR:HG22	1:D:446:PRO:HG3	1.71	0.73
1:D:644:LEU:O	1:D:646:PRO:HD3	1.89	0.73
1:I:9:ASN:HD21	1:J:206:GLU:HA	1.53	0.73
1:J:98:ALA:HB2	1:J:206:GLU:HG2	1.71	0.73
1:J:375:LEU:HD23	1:J:437:ILE:CD1	2.15	0.73
1:L:382:ILE:HA	1:L:385:VAL:HG12	1.71	0.73
1:L:412:ARG:HH22	1:N:356:THR:HG21	1.53	0.73
1:N:354:SER:HB2	1:N:419:MET:HA	1.69	0.73
1:P:609:ARG:HB3	1:Q:29:THR:CG2	2.14	0.73
1:T:375:LEU:HD23	1:T:437:ILE:CD1	2.15	0.73
2:U:239:PRO:O	2:U:358:ASP:HB3	1.89	0.73
3:W:1208:CYS:HB3	3:W:1216:GLY:CA	2.18	0.73
4:X:1122:PRO:CB	4:X:1159:GLY:HA3	2.19	0.73
4:Y:618:PRO:HB2	4:Y:941:TYR:CG	2.24	0.73
4:Y:632:ASN:HB3	4:Y:634:GLN:NE2	2.03	0.73
1:F:368:THR:HG22	1:F:446:PRO:HG3	1.71	0.72
1:G:13:ILE:HD11	5:G:649:MYR:H111	1.70	0.72
1:J:609:ARG:HB3	1:K:29:THR:CG2	2.14	0.72
1:N:271:LEU:HD11	1:N:516:LYS:HB2	1.69	0.72
1:O:29:THR:CG2	1:T:609:ARG:HB3	2.14	0.72
1:P:121:ALA:CB	1:T:87:PHE:CE1	2.71	0.72
1:P:289:LEU:HD21	1:R:515:ASN:ND2	2.04	0.72
1:R:98:ALA:HB2	1:R:206:GLU:HG2	1.71	0.72
1:R:412:ARG:HH22	1:T:356:THR:HG21	1.53	0.72
1:T:48:TRP:CH2	1:T:122:THR:HA	2.24	0.72
3:W:243:GLN:HE22	3:W:257:GLN:HG3	1.52	0.72
1:B:87:PHE:CZ	1:B:235:LEU:HD12	2.24	0.72
1:B:368:THR:HG22	1:B:446:PRO:HG3	1.71	0.72
1:B:382:ILE:HA	1:B:385:VAL:HG12	1.70	0.72
1:F:87:PHE:CE1	1:H:121:ALA:CB	2.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:271:LEU:HD11	1:F:516:LYS:HB2	1.69	0.72
1:H:291:PRO:HB3	1:H:467:THR:CG2	2.17	0.72
1:H:368:THR:HG22	1:H:446:PRO:HG3	1.71	0.72
1:J:57:THR:HG22	1:J:58:ILE:N	2.04	0.72
1:J:368:THR:HG22	1:J:446:PRO:HG3	1.71	0.72
1:J:637:PHE:HE2	1:N:545:VAL:CG2	2.01	0.72
1:L:48:TRP:CH2	1:L:122:THR:HA	2.23	0.72
1:R:87:PHE:CE1	1:T:121:ALA:CB	2.71	0.72
2:U:170:THR:HG23	2:U:207:THR:HA	1.71	0.72
3:W:63:PRO:HB2	3:W:64:PRO:CD	2.19	0.72
3:W:853:THR:HG22	3:W:873:ALA:HB3	1.71	0.72
4:X:801:ARG:HH11	4:X:801:ARG:CB	1.94	0.72
4:X:937:ALA:CB	4:X:947:ARG:HA	2.18	0.72
1:A:9:ASN:HD21	1:B:206:GLU:HA	1.53	0.72
1:D:472:ARG:HH21	1:F:530:ARG:NE	1.87	0.72
1:F:92:TRP:NE1	1:F:156:VAL:HG21	2.03	0.72
1:J:363:ASN:HD21	1:J:366:LEU:HB2	1.55	0.72
1:L:354:SER:HB2	1:L:419:MET:HA	1.69	0.72
1:N:644:LEU:O	1:N:646:PRO:HD3	1.89	0.72
1:O:13:ILE:HD11	5:O:649:MYR:H111	1.70	0.72
1:R:238:VAL:HG22	1:T:142:ILE:CD1	2.19	0.72
1:R:363:ASN:HD21	1:R:366:LEU:HB2	1.55	0.72
1:T:87:PHE:CZ	1:T:235:LEU:HD12	2.25	0.72
1:T:469:VAL:O	1:T:470:LEU:HB2	1.87	0.72
3:W:137:ARG:HH22	3:W:164:VAL:HG21	1.54	0.72
3:W:574:THR:HA	3:W:609:MET:O	1.89	0.72
4:Y:485:PRO:HB3	4:Y:836:HIS:CD2	2.24	0.72
1:B:92:TRP:NE1	1:B:156:VAL:HG21	2.03	0.72
1:J:164:ASP:OD2	1:N:534:SER:HB3	1.89	0.72
1:J:382:ILE:HA	1:J:385:VAL:HG12	1.70	0.72
1:L:87:PHE:CZ	1:L:235:LEU:HD12	2.25	0.72
1:O:8:VAL:CG1	1:P:206:GLU:OE2	2.38	0.72
1:R:237:GLU:CD	1:T:46:LYS:HZ3	1.97	0.72
1:R:375:LEU:HD23	1:R:437:ILE:CD1	2.15	0.72
1:S:8:VAL:CG1	1:T:206:GLU:OE2	2.38	0.72
4:X:497:ILE:HD13	4:X:514:ILE:CD1	2.19	0.72
4:X:820:VAL:O	4:X:824:CYS:HB3	1.89	0.72
1:B:428:ARG:HG2	1:B:428:ARG:NH1	2.03	0.72
1:D:515:ASN:ND2	1:H:289:LEU:HD21	2.05	0.72
1:F:412:ARG:HH22	1:H:356:THR:HG21	1.53	0.72
1:H:372:ALA:CB	1:H:399:ALA:HA	2.18	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:53:THR:HA	2:V:332:PRO:HG3	1.72	0.72
1:P:271:LEU:HD11	1:P:516:LYS:HB2	1.69	0.72
1:P:274:ILE:CD1	1:P:514:LEU:HD22	2.10	0.72
1:P:534:SER:HB3	1:R:164:ASP:OD2	1.89	0.72
1:R:545:VAL:CG2	1:T:637:PHE:HE2	2.01	0.72
1:S:13:ILE:HD11	5:S:649:MYR:H111	1.70	0.72
3:W:263:VAL:CG2	3:W:303:LEU:HD11	2.19	0.72
3:W:303:LEU:HD23	3:W:341:MET:HE3	1.71	0.72
3:W:1014:ASN:ND2	3:W:1213:SER:HB2	2.05	0.72
4:X:291:LEU:HD12	4:X:891:PHE:HB2	1.72	0.72
4:X:793:ARG:NH1	4:Y:693:TYR:CE2	2.57	0.72
4:Y:761:VAL:HG21	4:Y:844:LEU:HD13	1.71	0.72
1:D:428:ARG:HG2	1:D:428:ARG:NH1	2.03	0.72
1:F:341:MET:HA	1:F:341:MET:CE	2.15	0.72
1:F:354:SER:HB2	1:F:419:MET:HA	1.69	0.72
1:F:534:SER:HB3	1:H:164:ASP:OD2	1.89	0.72
1:G:8:VAL:CG1	1:H:206:GLU:OE2	2.38	0.72
1:I:8:VAL:CG1	1:J:206:GLU:OE2	2.38	0.72
1:L:411:VAL:O	1:L:411:VAL:HG12	1.90	0.72
1:N:48:TRP:CH2	1:N:122:THR:HA	2.23	0.72
1:N:363:ASN:HD21	1:N:366:LEU:HB2	1.55	0.72
1:P:78:MET:CE	1:T:238:VAL:CG2	2.59	0.72
1:P:354:SER:HB2	1:P:419:MET:HA	1.69	0.72
1:P:515:ASN:ND2	1:T:289:LEU:HD21	2.04	0.72
1:Q:8:VAL:CG1	1:R:206:GLU:OE2	2.38	0.72
1:Q:27:THR:O	1:Q:27:THR:CG2	2.38	0.72
1:R:289:LEU:HD21	1:T:515:ASN:ND2	2.04	0.72
2:U:102:PRO:HD3	4:X:880:LEU:HD11	1.70	0.72
2:U:166:MET:HE2	2:U:170:THR:HG22	1.70	0.72
2:U:223:LEU:HD11	2:U:411:PHE:CE2	2.24	0.72
2:U:231:GLY:HA2	2:U:255:ARG:NH1	2.04	0.72
4:X:509:SER:HB3	4:X:512:SER:HB3	1.72	0.72
1:A:8:VAL:CG1	1:B:206:GLU:OE2	2.38	0.72
1:D:545:VAL:CG2	1:F:637:PHE:HE2	2.01	0.72
1:F:411:VAL:O	1:F:412:ARG:HB2	1.87	0.72
1:H:98:ALA:HB2	1:H:206:GLU:HG2	1.71	0.72
1:I:27:THR:O	1:I:27:THR:CG2	2.38	0.72
1:K:27:THR:O	1:K:27:THR:CG2	2.38	0.72
1:P:363:ASN:HD21	1:P:366:LEU:HB2	1.55	0.72
1:P:375:LEU:HD23	1:P:437:ILE:CD1	2.15	0.72
1:P:644:LEU:O	1:P:646:PRO:HD3	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:98:ALA:HB2	1:T:206:GLU:HG2	1.71	0.72
4:X:801:ARG:HD3	4:X:939:LEU:HD13	1.72	0.72
4:Y:981:ASN:ND2	4:Y:1077:GLU:HG2	2.04	0.72
1:B:609:ARG:O	1:B:610:THR:HG23	1.90	0.72
1:B:644:LEU:O	1:B:646:PRO:HD3	1.89	0.72
1:C:9:ASN:HD21	1:D:206:GLU:HA	1.54	0.72
1:D:98:ALA:HB2	1:D:206:GLU:HG2	1.71	0.72
1:D:363:ASN:HD21	1:D:366:LEU:HB2	1.55	0.72
1:E:8:VAL:CG1	1:F:206:GLU:OE2	2.38	0.72
1:J:356:THR:HG21	1:N:412:ARG:HH22	1.53	0.72
1:J:609:ARG:O	1:J:610:THR:HG23	1.90	0.72
1:P:411:VAL:O	1:P:411:VAL:HG12	1.90	0.72
1:R:87:PHE:CZ	1:R:235:LEU:HD12	2.24	0.72
2:V:48:THR:O	4:Y:417:VAL:HG21	1.89	0.72
3:W:623:PRO:HB2	3:W:628:TRP:HE1	1.53	0.72
4:X:398:ILE:O	4:X:401:THR:HG22	1.88	0.72
4:X:700:TRP:O	4:X:704:THR:HG22	1.90	0.72
1:B:363:ASN:HD21	1:B:366:LEU:HB2	1.55	0.72
1:D:637:PHE:HE2	1:H:545:VAL:CG2	2.01	0.72
1:F:363:ASN:HD21	1:F:366:LEU:HB2	1.55	0.72
1:L:609:ARG:HB3	1:M:29:THR:CG2	2.14	0.72
1:N:382:ILE:HA	1:N:385:VAL:HG12	1.70	0.72
1:P:287:PRO:HG2	1:P:471:LEU:HD12	1.72	0.72
1:P:609:ARG:O	1:P:610:THR:HG23	1.90	0.72
1:T:287:PRO:HG2	1:T:471:LEU:HD12	1.72	0.72
3:W:137:ARG:HB3	3:W:153:LYS:HG2	1.71	0.72
3:W:672:THR:HG21	3:W:1081:VAL:HA	1.71	0.72
1:B:287:PRO:HG2	1:B:471:LEU:HD12	1.72	0.72
1:D:238:VAL:CG2	1:F:78:MET:CE	2.59	0.72
1:L:289:LEU:HD21	1:N:515:ASN:ND2	2.04	0.72
5:M:649:MYR:H143	5:M:649:MYR:C10	2.12	0.72
1:N:368:THR:HG22	1:N:446:PRO:HG3	1.71	0.72
1:P:341:MET:HA	1:P:341:MET:CE	2.15	0.72
5:Q:649:MYR:H142	5:Q:649:MYR:C10	2.10	0.72
1:R:644:LEU:O	1:R:646:PRO:HD3	1.89	0.72
3:W:564:LEU:HD13	3:W:570:VAL:HG13	1.70	0.72
3:W:566:LEU:HD13	3:W:605:THR:OG1	1.89	0.72
4:X:827:THR:HG21	4:X:831:LEU:HD22	1.72	0.72
4:Y:54:VAL:HB	4:Y:57:GLN:HG3	1.72	0.72
4:Y:990:ASN:HB2	4:Y:1131:ARG:HA	1.70	0.72
1:C:8:VAL:CG1	1:D:206:GLU:OE2	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:13:ILE:HD11	5:C:649:MYR:H111	1.70	0.71
1:J:87:PHE:CZ	1:J:235:LEU:HD12	2.24	0.71
1:J:575:MET:CE	1:N:469:VAL:CG2	2.43	0.71
1:O:13:ILE:HB	1:P:205:ASN:HB3	1.72	0.71
1:P:59:ASP:HB2	3:W:380:ASN:HB2	1.70	0.71
1:P:87:PHE:CZ	1:P:235:LEU:HD12	2.24	0.71
1:T:354:SER:HB2	1:T:419:MET:HA	1.70	0.71
1:T:644:LEU:O	1:T:646:PRO:HD3	1.89	0.71
2:V:195:GLN:HE22	4:Y:377:ILE:H	1.35	0.71
3:W:675:GLN:O	3:W:679:LEU:HB2	1.90	0.71
4:X:453:LEU:CD2	4:X:861:ARG:HA	2.18	0.71
1:F:289:LEU:HD21	1:H:515:ASN:ND2	2.04	0.71
1:H:363:ASN:HD21	1:H:366:LEU:HB2	1.55	0.71
1:J:644:LEU:O	1:J:646:PRO:HD3	1.89	0.71
1:L:564:LEU:HD21	1:L:568:ARG:HH21	1.55	0.71
1:N:609:ARG:O	1:N:610:THR:HG23	1.90	0.71
1:O:9:ASN:HD21	1:P:206:GLU:HA	1.53	0.71
3:W:708:LEU:HD23	3:W:764:THR:HG22	1.72	0.71
3:W:740:VAL:HG21	3:W:770:ARG:NH1	2.05	0.71
3:W:1234:ASN:O	3:W:1235:THR:HG23	1.90	0.71
4:X:317:PHE:HB2	4:X:373:ARG:HH22	1.55	0.71
4:X:746:TYR:HA	4:X:750:MET:HE3	1.70	0.71
4:Y:640:ARG:HH11	4:Y:640:ARG:HG3	1.54	0.71
4:Y:692:THR:HG23	4:Y:693:TYR:HD1	1.55	0.71
1:D:291:PRO:HB3	1:D:467:THR:CG2	2.17	0.71
1:D:411:VAL:O	1:D:411:VAL:HG12	1.90	0.71
1:F:287:PRO:HG2	1:F:471:LEU:HD12	1.72	0.71
1:F:369:SER:HG	1:F:443:PHE:HD2	1.34	0.71
1:F:469:VAL:CG2	1:H:575:MET:CE	2.43	0.71
1:J:289:LEU:HD21	1:L:515:ASN:ND2	2.04	0.71
1:J:564:LEU:HD21	1:J:568:ARG:HH21	1.55	0.71
1:L:287:PRO:HG2	1:L:471:LEU:HD12	1.72	0.71
1:R:368:THR:HG22	1:R:446:PRO:HG3	1.71	0.71
1:T:428:ARG:HG2	1:T:428:ARG:NH1	2.03	0.71
2:U:41:PHE:HD1	4:X:404:MET:CE	2.03	0.71
2:U:177:TYR:CZ	4:X:412:ASP:HB3	2.25	0.71
3:W:769:ARG:HD3	3:W:844:SER:O	1.90	0.71
1:B:564:LEU:HD21	1:B:568:ARG:HH21	1.55	0.71
1:D:87:PHE:CZ	1:D:235:LEU:HD12	2.24	0.71
1:D:287:PRO:HG2	1:D:471:LEU:HD12	1.72	0.71
1:E:9:ASN:HD21	1:F:206:GLU:HA	1.53	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:274:ILE:CD1	1:F:514:LEU:HD23	2.20	0.71
1:F:609:ARG:O	1:F:610:THR:HG23	1.90	0.71
1:H:411:VAL:O	1:H:411:VAL:HG12	1.90	0.71
1:L:363:ASN:HD21	1:L:366:LEU:HB2	1.55	0.71
5:M:649:MYR:H21	1:N:191:LYS:CE	2.20	0.71
1:N:411:VAL:O	1:N:412:ARG:HB2	1.87	0.71
1:R:354:SER:HB2	1:R:419:MET:HA	1.70	0.71
4:Y:317:PHE:HZ	4:Y:385:VAL:HG11	1.56	0.71
4:Y:611:PRO:O	4:Y:614:GLN:HB3	1.90	0.71
1:D:237:GLU:CB	1:F:46:LYS:HZ1	2.01	0.71
1:D:412:ARG:HH22	1:F:356:THR:HG21	1.53	0.71
1:D:609:ARG:O	1:D:610:THR:HG23	1.90	0.71
1:E:13:ILE:HB	1:F:205:ASN:HB3	1.72	0.71
1:F:87:PHE:CZ	1:F:235:LEU:HD12	2.24	0.71
1:L:341:MET:HA	1:L:341:MET:CE	2.15	0.71
1:M:13:ILE:HB	1:N:205:ASN:HB3	1.72	0.71
1:N:87:PHE:CZ	1:N:235:LEU:HD12	2.24	0.71
1:N:98:ALA:HB2	1:N:206:GLU:HG2	1.71	0.71
1:P:164:ASP:OD2	1:T:534:SER:HB3	1.89	0.71
1:R:287:PRO:HG2	1:R:471:LEU:HD12	1.72	0.71
1:R:469:VAL:CG2	1:T:575:MET:CE	2.43	0.71
1:T:363:ASN:HD21	1:T:366:LEU:HB2	1.55	0.71
1:T:564:LEU:HD21	1:T:568:ARG:HH21	1.55	0.71
3:W:433:CYS:O	3:W:1007:PRO:HA	1.89	0.71
3:W:981:LEU:HD12	3:W:1028:ILE:HG21	1.71	0.71
4:X:301:LEU:HD13	4:X:964:VAL:HG12	1.71	0.71
4:Y:489:ASP:OD1	4:Y:491:THR:HG23	1.90	0.71
4:Y:603:VAL:HG13	4:Y:606:MET:HB2	1.70	0.71
1:G:13:ILE:HB	1:H:205:ASN:HB3	1.72	0.71
1:L:534:SER:HB3	1:N:164:ASP:OD2	1.89	0.71
1:L:606:THR:CG2	1:N:173:ASP:HB2	2.21	0.71
1:T:58:ILE:HG22	1:T:58:ILE:O	1.90	0.71
3:W:102:ARG:HG2	3:W:102:ARG:HH11	1.56	0.71
3:W:1087:LEU:HD21	3:W:1096:PHE:HB3	1.73	0.71
4:X:597:GLU:HG3	4:X:636:ALA:HA	1.72	0.71
1:B:96:PHE:HD1	1:B:101:THR:HG23	1.56	0.71
1:F:411:VAL:O	1:F:411:VAL:HG12	1.90	0.71
1:H:300:LYS:HE3	1:H:303:ASP:OD2	1.91	0.71
1:J:237:GLU:CD	1:L:46:LYS:HZ3	1.99	0.71
1:J:515:ASN:ND2	1:N:289:LEU:HD21	2.04	0.71
1:N:300:LYS:HE3	1:N:303:ASP:OD2	1.91	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:51:VAL:HB	3:W:379:VAL:HG21	1.73	0.71
1:P:98:ALA:HB2	1:P:206:GLU:HG2	1.71	0.71
1:P:173:ASP:HB2	1:T:606:THR:CG2	2.21	0.71
1:R:96:PHE:HD1	1:R:101:THR:HG23	1.56	0.71
1:R:382:ILE:HA	1:R:385:VAL:HG12	1.71	0.71
1:R:411:VAL:O	1:R:411:VAL:HG12	1.90	0.71
1:S:13:ILE:HB	1:T:205:ASN:HB3	1.72	0.71
3:W:409:ILE:HG12	3:W:779:MET:CE	2.21	0.71
3:W:1057:PRO:HG3	3:W:1089:TYR:CE2	2.26	0.71
4:X:995:PRO:HG2	4:X:1118:CYS:O	1.90	0.71
1:I:13:ILE:HD11	5:I:649:MYR:H111	1.70	0.71
1:N:287:PRO:HG2	1:N:471:LEU:HD12	1.72	0.71
5:O:649:MYR:H142	5:O:649:MYR:C10	2.11	0.71
1:R:274:ILE:CD1	1:R:514:LEU:HD23	2.20	0.71
2:U:93:ARG:HB3	2:U:93:ARG:NH1	2.06	0.71
3:W:480:ARG:NE	3:W:649:ILE:HG22	2.05	0.71
3:W:714:ARG:HB2	3:W:758:THR:HG22	1.72	0.71
4:X:528:PHE:CE1	4:X:575:MET:CE	2.72	0.71
4:X:673:ASN:O	4:X:674:ARG:HD2	1.91	0.71
1:B:98:ALA:HB2	1:B:206:GLU:HG2	1.71	0.71
1:D:375:LEU:HD23	1:D:437:ILE:CD1	2.15	0.71
1:F:98:ALA:HB2	1:F:206:GLU:HG2	1.71	0.71
1:F:606:THR:CG2	1:H:173:ASP:HB2	2.21	0.71
1:H:87:PHE:CZ	1:H:235:LEU:HD12	2.25	0.71
1:J:274:ILE:CD1	1:J:514:LEU:HD23	2.20	0.71
1:J:530:ARG:NE	1:N:472:ARG:HH21	1.87	0.71
1:J:606:THR:CG2	1:L:173:ASP:HB2	2.21	0.71
1:R:564:LEU:HD21	1:R:568:ARG:HH21	1.55	0.71
1:S:5:GLN:CG	1:S:5:GLN:OE1	2.39	0.71
1:S:26:MET:HG3	1:T:216:PRO:CG	2.21	0.71
2:U:31:GLY:C	2:U:32:CYS:SG	2.73	0.71
3:W:38:ASN:HD21	3:W:40:HIS:HB3	1.54	0.71
4:Y:923:LEU:CD2	4:Y:931:ILE:HD13	2.21	0.71
1:B:291:PRO:HB3	1:B:467:THR:CG2	2.17	0.71
1:D:57:THR:H	1:D:60:SER:HB3	1.55	0.71
1:D:96:PHE:HD1	1:D:101:THR:HG23	1.56	0.71
5:G:649:MYR:H91	5:G:649:MYR:H52	1.73	0.71
1:H:58:ILE:O	1:H:58:ILE:HG22	1.90	0.71
1:H:609:ARG:O	1:H:610:THR:HG23	1.90	0.71
1:L:96:PHE:HD1	1:L:101:THR:HG23	1.56	0.71
1:L:178:SER:HB3	1:Q:3:ASN:HD21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:609:ARG:O	1:L:610:THR:HG23	1.90	0.71
1:P:606:THR:CG2	1:R:173:ASP:HB2	2.21	0.71
3:W:335:SER:HA	3:W:752:ASN:O	1.91	0.71
4:X:590:ALA:HA	4:X:639:LEU:HD11	1.72	0.71
4:Y:167:ILE:HG13	4:Y:167:ILE:O	1.91	0.71
4:Y:209:ASN:ND2	4:Y:242:ARG:HG3	2.05	0.71
1:D:469:VAL:CG2	1:F:575:MET:CE	2.43	0.70
1:D:579:ASN:ND2	1:D:582:LEU:HG	2.06	0.70
1:D:606:THR:CG2	1:F:173:ASP:HB2	2.21	0.70
1:D:609:ARG:HB3	1:E:29:THR:CG2	2.14	0.70
5:E:649:MYR:H91	5:E:649:MYR:H52	1.73	0.70
1:J:613:LEU:CD1	1:K:34:ILE:HB	2.21	0.70
1:K:8:VAL:CG1	1:L:206:GLU:OE2	2.38	0.70
1:N:58:ILE:HG22	1:N:58:ILE:O	1.90	0.70
1:O:34:ILE:HB	1:T:613:LEU:CD1	2.21	0.70
1:P:300:LYS:HE3	1:P:303:ASP:OD2	1.91	0.70
1:P:575:MET:CE	1:T:469:VAL:CG2	2.43	0.70
1:T:341:MET:HA	1:T:341:MET:CE	2.15	0.70
3:W:148:ILE:O	3:W:151:ILE:HG12	1.90	0.70
4:X:782:ASN:ND2	4:X:801:ARG:HD2	2.05	0.70
4:X:928:ASP:HB2	4:Y:740:LYS:HG2	1.72	0.70
4:X:1094:LEU:O	4:X:1094:LEU:HD23	1.90	0.70
4:Y:128:THR:HG22	4:Y:130:SER:H	1.55	0.70
4:Y:403:ILE:HG13	4:Y:1197:TYR:CE2	2.26	0.70
1:D:274:ILE:CD1	1:D:514:LEU:HD23	2.20	0.70
5:G:649:MYR:H21	1:H:191:LYS:CE	2.20	0.70
1:H:274:ILE:CD1	1:H:514:LEU:HD23	2.20	0.70
1:I:13:ILE:HB	1:J:205:ASN:HB3	1.72	0.70
1:J:173:ASP:HB2	1:N:606:THR:CG2	2.21	0.70
1:J:291:PRO:HB3	1:J:467:THR:CG2	2.17	0.70
5:M:649:MYR:H91	5:M:649:MYR:H52	1.73	0.70
1:N:96:PHE:HD1	1:N:101:THR:HG23	1.56	0.70
1:P:274:ILE:CD1	1:P:514:LEU:HD23	2.20	0.70
1:P:450:SER:HA	1:P:453:ASN:ND2	2.07	0.70
1:R:291:PRO:CB	1:R:467:THR:CG2	2.56	0.70
1:R:606:THR:CG2	1:T:173:ASP:HB2	2.21	0.70
4:X:671:PRO:HB2	4:X:674:ARG:HG3	1.73	0.70
1:B:300:LYS:HE3	1:B:303:ASP:OD2	1.91	0.70
1:D:289:LEU:HD21	1:F:515:ASN:ND2	2.04	0.70
1:F:300:LYS:HE3	1:F:303:ASP:OD2	1.91	0.70
1:H:287:PRO:HG2	1:H:471:LEU:HD12	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:450:SER:HA	1:H:453:ASN:ND2	2.06	0.70
1:K:13:ILE:HB	1:L:205:ASN:HB3	1.72	0.70
1:L:300:LYS:HE3	1:L:303:ASP:OD2	1.91	0.70
1:N:517:LEU:HG	1:N:601:THR:HG22	1.74	0.70
1:N:564:LEU:HD21	1:N:568:ARG:HH21	1.55	0.70
1:P:382:ILE:HA	1:P:385:VAL:HG12	1.70	0.70
1:T:336:THR:CG2	1:T:456:ASN:HD21	2.04	0.70
2:U:41:PHE:CD1	4:X:404:MET:CE	2.73	0.70
3:W:75:ILE:HD11	3:W:199:PRO:HG2	1.74	0.70
3:W:1065:HIS:O	3:W:1066:ASN:HB2	1.90	0.70
4:X:193:LEU:HD22	4:X:855:GLN:HE21	1.56	0.70
4:Y:457:MET:HG2	4:Y:860:THR:HG21	1.72	0.70
4:Y:882:PRO:O	4:Y:884:PRO:HD3	1.92	0.70
1:B:411:VAL:O	1:B:411:VAL:HG12	1.90	0.70
5:C:649:MYR:H52	5:C:649:MYR:H91	1.73	0.70
1:H:564:LEU:HD21	1:H:568:ARG:HH21	1.56	0.70
5:I:649:MYR:H52	5:I:649:MYR:H91	1.73	0.70
1:N:450:SER:HA	1:N:453:ASN:ND2	2.06	0.70
1:R:609:ARG:O	1:R:610:THR:HG23	1.90	0.70
3:W:14:ASN:HB3	3:W:319:GLN:NE2	2.06	0.70
3:W:35:GLN:CD	3:W:96:VAL:HG11	2.16	0.70
4:X:583:VAL:HG21	4:X:621:TRP:CG	2.26	0.70
4:Y:1160:GLU:O	4:Y:1160:GLU:CG	2.39	0.70
1:C:13:ILE:HB	1:D:205:ASN:HB3	1.72	0.70
1:F:58:ILE:HG22	1:F:58:ILE:O	1.90	0.70
1:F:336:THR:CG2	1:F:456:ASN:HD21	2.04	0.70
1:G:5:GLN:CG	1:G:5:GLN:OE1	2.39	0.70
1:H:96:PHE:HD1	1:H:101:THR:HG23	1.56	0.70
1:H:336:THR:CG2	1:H:456:ASN:HD21	2.04	0.70
1:J:84:LYS:CD	1:K:39:GLY:O	2.40	0.70
1:J:336:THR:CG2	1:J:456:ASN:HD21	2.04	0.70
1:J:428:ARG:HG2	1:J:428:ARG:NH1	2.03	0.70
1:P:517:LEU:HG	1:P:601:THR:HG22	1.74	0.70
1:R:450:SER:HA	1:R:453:ASN:ND2	2.07	0.70
2:V:51:LEU:HD13	4:X:1038:PRO:HD3	1.73	0.70
4:X:792:GLN:HG2	4:X:931:ILE:HG23	1.73	0.70
5:A:649:MYR:H52	5:A:649:MYR:H91	1.73	0.70
1:D:336:THR:CG2	1:D:456:ASN:HD21	2.04	0.70
1:J:78:MET:CE	1:N:238:VAL:CG2	2.59	0.70
1:L:336:THR:CG2	1:L:456:ASN:HD21	2.04	0.70
1:P:368:THR:HG22	1:P:446:PRO:HG3	1.71	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:428:ARG:HG2	1:P:428:ARG:NH1	2.03	0.70
1:Q:13:ILE:HB	1:R:205:ASN:HB3	1.72	0.70
5:S:649:MYR:H91	5:S:649:MYR:H52	1.73	0.70
3:W:438:VAL:HB	3:W:649:ILE:HD13	1.72	0.70
3:W:519:LEU:HD13	3:W:566:LEU:HG	1.73	0.70
4:Y:832:ILE:HD13	4:Y:1213:ALA:HB2	1.73	0.70
1:B:58:ILE:O	1:B:58:ILE:HG22	1.90	0.70
1:I:34:ILE:HB	1:N:613:LEU:CD1	2.21	0.70
1:L:450:SER:HA	1:L:453:ASN:ND2	2.07	0.70
1:M:8:VAL:CG1	1:N:206:GLU:OE2	2.38	0.70
1:N:274:ILE:CD1	1:N:514:LEU:HD23	2.20	0.70
1:P:84:LYS:CD	1:Q:39:GLY:O	2.40	0.70
1:P:96:PHE:HD1	1:P:101:THR:HG23	1.56	0.70
1:R:336:THR:CG2	1:R:456:ASN:HD21	2.04	0.70
1:T:411:VAL:O	1:T:411:VAL:HG12	1.90	0.70
3:W:1204:LEU:HB3	3:W:1227:TYR:CD2	2.27	0.70
4:X:317:PHE:CE2	4:X:370:ARG:HB3	2.25	0.70
4:X:795:ASP:OD2	4:X:803:THR:HG22	1.91	0.70
4:X:1012:ARG:NH2	4:X:1043:GLY:HA3	2.03	0.70
1:J:277:ASP:O	1:J:278:THR:CG2	2.37	0.70
1:K:26:MET:HG3	1:L:216:PRO:CG	2.21	0.70
1:L:609:ARG:HH11	1:M:27:THR:CG2	2.05	0.70
1:N:579:ASN:ND2	1:N:582:LEU:HG	2.06	0.70
1:P:613:LEU:CD1	1:Q:34:ILE:HB	2.21	0.70
5:S:649:MYR:H21	1:T:191:LYS:CE	2.20	0.70
2:V:271:SER:HB3	2:V:330:PRO:HD2	1.73	0.70
3:W:934:ASN:O	3:W:967:TYR:HB2	1.92	0.70
4:X:249:TRP:HZ3	4:X:342:LEU:HD23	1.57	0.70
4:Y:104:GLN:CD	4:Y:104:GLN:H	2.00	0.70
4:Y:241:ASN:O	4:Y:1147:PHE:HB3	1.92	0.70
1:B:274:ILE:CD1	1:B:514:LEU:HD23	2.20	0.70
1:B:517:LEU:HG	1:B:601:THR:HG22	1.73	0.70
1:D:300:LYS:HE3	1:D:303:ASP:OD2	1.91	0.70
1:F:564:LEU:HD21	1:F:568:ARG:HH21	1.55	0.70
1:I:27:THR:CG2	1:N:609:ARG:HH11	2.05	0.70
1:K:9:ASN:HD21	1:L:206:GLU:HA	1.53	0.70
1:N:411:VAL:O	1:N:411:VAL:HG12	1.90	0.70
1:R:300:LYS:HE3	1:R:303:ASP:OD2	1.91	0.70
1:T:609:ARG:O	1:T:610:THR:HG23	1.90	0.70
3:W:625:ARG:HG2	3:W:625:ARG:NH1	2.02	0.70
3:W:676:ARG:HB2	3:W:1081:VAL:CG1	2.21	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:679:LEU:HD22	3:W:1068:VAL:HG13	1.74	0.70
3:W:957:ARG:HB3	3:W:960:GLY:HA2	1.74	0.70
3:W:1233:ARG:HD2	3:W:1293:VAL:HG12	1.72	0.70
4:X:543:THR:O	4:X:578:ASP:HB2	1.92	0.70
1:B:336:THR:CG2	1:B:456:ASN:HD21	2.04	0.70
1:L:58:ILE:HG22	1:L:58:ILE:O	1.90	0.70
1:R:58:ILE:O	1:R:58:ILE:HG22	1.90	0.70
1:R:341:MET:HE2	1:R:341:MET:CA	2.18	0.70
1:T:300:LYS:HE3	1:T:303:ASP:OD2	1.91	0.70
2:U:60:SER:HB3	2:U:63:SER:CB	2.13	0.70
3:W:1064:GLN:HB3	3:W:1069:GLU:HA	1.72	0.70
4:X:368:ILE:HG12	4:X:369:GLY:N	2.05	0.70
4:X:380:GLU:OE1	4:X:438:PRO:HG2	1.92	0.70
4:X:784:LEU:N	4:X:784:LEU:HD12	2.06	0.70
4:X:1125:TYR:O	4:X:1157:ALA:HB3	1.92	0.70
1:D:173:ASP:HB2	1:H:606:THR:CG2	2.21	0.69
1:H:582:LEU:HD23	1:H:585:GLN:NE2	2.07	0.69
1:J:287:PRO:HG2	1:J:471:LEU:HD12	1.72	0.69
1:L:368:THR:HG22	1:L:446:PRO:HG3	1.71	0.69
1:L:517:LEU:HG	1:L:601:THR:HG22	1.74	0.69
1:L:582:LEU:HD23	1:L:585:GLN:NE2	2.07	0.69
1:M:27:THR:O	1:M:27:THR:CG2	2.38	0.69
1:N:277:ASP:O	1:N:278:THR:CG2	2.37	0.69
3:W:149:THR:HA	3:W:152:THR:HG22	1.72	0.69
1:C:34:ILE:HB	1:H:613:LEU:CD1	2.21	0.69
1:D:341:MET:HA	1:D:341:MET:CE	2.15	0.69
1:D:530:ARG:NE	1:H:472:ARG:HH21	1.87	0.69
1:L:274:ILE:CD1	1:L:514:LEU:HD23	2.20	0.69
1:M:5:GLN:CG	1:M:5:GLN:OE1	2.39	0.69
1:N:336:THR:CG2	1:N:456:ASN:HD21	2.04	0.69
1:N:582:LEU:HD23	1:N:585:GLN:NE2	2.07	0.69
1:O:39:GLY:O	1:T:84:LYS:CD	2.40	0.69
1:P:564:LEU:HD21	1:P:568:ARG:HH21	1.55	0.69
1:T:274:ILE:CD1	1:T:514:LEU:HD23	2.20	0.69
1:T:470:LEU:HD11	1:T:472:ARG:HH11	1.56	0.69
2:U:94:ASP:CG	4:X:949:HIS:HE2	2.00	0.69
3:W:584:GLN:CG	3:W:621:ASN:HB2	2.19	0.69
3:W:1243:TYR:CE1	3:W:1298:ILE:HD11	2.27	0.69
4:Y:479:LEU:HB3	4:Y:758:LEU:HD11	1.74	0.69
1:A:13:ILE:HB	1:B:205:ASN:HB3	1.72	0.69
1:D:582:LEU:HD23	1:D:585:GLN:NE2	2.07	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:237:GLU:CB	1:H:46:LYS:HZ1	2.01	0.69
1:F:379:SER:HB3	1:N:380:VAL:HG22	1.73	0.69
1:F:582:LEU:HD23	1:F:585:GLN:NE2	2.07	0.69
1:J:609:ARG:HH11	1:K:27:THR:CG2	2.05	0.69
1:P:582:LEU:HD23	1:P:585:GLN:NE2	2.08	0.69
3:W:63:PRO:HA	3:W:66:ASN:OD1	1.92	0.69
4:X:252:LEU:HD12	4:X:253:GLY:N	2.07	0.69
4:X:600:ALA:O	4:X:623:PRO:HD2	1.91	0.69
4:Y:371:LEU:HD21	4:Y:388:MET:HE2	1.73	0.69
4:Y:717:MET:HE2	4:Y:717:MET:HA	1.75	0.69
1:B:339:ILE:HD11	1:B:464:LEU:HD22	1.75	0.69
1:C:26:MET:HG3	1:D:216:PRO:CG	2.21	0.69
1:J:582:LEU:HD23	1:J:585:GLN:NE2	2.08	0.69
1:L:98:ALA:HB2	1:L:206:GLU:HG2	1.71	0.69
1:L:274:ILE:HD11	1:L:514:LEU:HD21	1.73	0.69
1:N:339:ILE:HD11	1:N:464:LEU:HD22	1.75	0.69
5:O:649:MYR:H91	5:O:649:MYR:H52	1.73	0.69
1:T:339:ILE:HD11	1:T:464:LEU:HD22	1.75	0.69
2:U:51:LEU:HB3	2:U:53:VAL:HG13	1.74	0.69
4:Y:451:LEU:HD13	4:Y:666:ALA:HB2	1.73	0.69
4:Y:1156:THR:CG2	4:Y:1161:ASN:HB2	2.23	0.69
1:D:416:ARG:CB	1:F:298:PHE:CE1	2.76	0.69
1:F:96:PHE:HD1	1:F:101:THR:HG23	1.56	0.69
1:P:294:TYR:HH	1:P:502:LEU:HA	1.57	0.69
1:P:336:THR:CG2	1:P:456:ASN:HD21	2.04	0.69
1:P:416:ARG:CB	1:R:298:PHE:CE1	2.76	0.69
1:R:609:ARG:HH11	1:S:27:THR:CG2	2.05	0.69
1:T:517:LEU:HG	1:T:601:THR:HG22	1.74	0.69
2:U:179:GLY:N	4:X:376:LEU:HD21	2.06	0.69
4:X:603:VAL:HG11	4:Y:715:VAL:HG11	1.75	0.69
1:C:27:THR:CG2	1:H:609:ARG:HH11	2.05	0.69
1:D:50:PRO:CB	1:D:60:SER:O	2.41	0.69
1:D:450:SER:HA	1:D:453:ASN:ND2	2.07	0.69
1:D:613:LEU:CD1	1:E:34:ILE:HB	2.21	0.69
5:E:649:MYR:H31	1:F:191:LYS:CG	2.23	0.69
1:I:26:MET:HG3	1:J:216:PRO:CG	2.21	0.69
1:J:416:ARG:CB	1:L:298:PHE:CE1	2.76	0.69
1:J:545:VAL:CG2	1:L:637:PHE:HE2	2.01	0.69
5:K:649:MYR:H91	5:K:649:MYR:H52	1.73	0.69
1:P:469:VAL:HG23	1:R:575:MET:CG	2.23	0.69
1:R:339:ILE:HD11	1:R:464:LEU:HD22	1.75	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:245:GLN:NE2	2:U:246:ALA:H	1.85	0.69
2:U:251:ASN:ND2	2:U:252:ASP:H	1.89	0.69
3:W:840:CYS:SG	3:W:854:MET:SD	2.90	0.69
3:W:1042:THR:OG1	3:W:1127:ILE:HA	1.92	0.69
4:X:875:GLN:HE22	4:X:930:ARG:HG2	1.56	0.69
1:A:27:THR:O	1:A:27:THR:CG2	2.38	0.69
1:B:339:ILE:HD13	1:B:349:LEU:HD21	1.75	0.69
5:C:649:MYR:H21	1:D:191:LYS:CE	2.23	0.69
1:R:517:LEU:HG	1:R:601:THR:HG22	1.74	0.69
2:U:65:ASN:HA	2:U:68:VAL:HG12	1.74	0.69
3:W:57:THR:HG23	3:W:183:TYR:HA	1.74	0.69
4:X:427:LEU:O	4:X:428:LEU:HB3	1.92	0.69
4:X:662:LEU:HD22	4:X:662:LEU:N	2.07	0.69
4:X:864:PHE:HA	4:X:920:LEU:HD21	1.75	0.69
4:X:976:ASN:HA	4:X:1083:TYR:CE1	2.28	0.69
4:X:1167:LEU:HD22	4:X:1187:ARG:NH1	2.06	0.69
4:Y:413:PRO:HG3	4:Y:442:CYS:SG	2.32	0.69
4:Y:589:LEU:O	4:Y:593:LEU:HD23	1.92	0.69
1:C:39:GLY:O	1:H:84:LYS:CD	2.40	0.69
1:D:50:PRO:HA	1:D:60:SER:O	1.91	0.69
1:D:469:VAL:HG23	1:F:575:MET:CG	2.23	0.69
1:D:564:LEU:HD21	1:D:568:ARG:HH21	1.55	0.69
1:E:37:LYS:NZ	1:H:264:SER:OG	2.23	0.69
1:F:416:ARG:CB	1:H:298:PHE:CE1	2.76	0.69
1:F:517:LEU:HG	1:F:601:THR:HG22	1.74	0.69
1:G:26:MET:HG3	1:H:216:PRO:CG	2.21	0.69
1:J:411:VAL:O	1:J:411:VAL:HG12	1.90	0.69
1:P:298:PHE:CE1	1:T:416:ARG:CB	2.76	0.69
1:P:339:ILE:HD11	1:P:464:LEU:HD22	1.75	0.69
4:X:453:LEU:O	4:X:453:LEU:HG	1.92	0.69
4:X:517:LEU:O	4:X:520:PRO:HD3	1.93	0.69
4:X:832:ILE:HB	4:X:835:HIS:HB3	1.75	0.69
4:X:993:TRP:NE1	4:X:995:PRO:HG3	2.08	0.69
4:Y:427:LEU:HD13	4:Y:837:TYR:HB3	1.74	0.69
4:Y:875:GLN:NE2	4:Y:878:GLY:HA3	2.08	0.69
4:Y:990:ASN:HD22	4:Y:1131:ARG:N	1.90	0.69
1:F:139:THR:CA	1:F:142:ILE:HG22	2.23	0.69
1:F:609:ARG:HH11	1:G:27:THR:CG2	2.05	0.69
1:H:339:ILE:HD13	1:H:349:LEU:HD21	1.75	0.69
1:J:300:LYS:HE3	1:J:303:ASP:OD2	1.91	0.69
1:J:450:SER:HA	1:J:453:ASN:ND2	2.06	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:469:VAL:HG23	1:L:575:MET:CG	2.23	0.69
1:J:517:LEU:HG	1:J:601:THR:HG22	1.74	0.69
1:L:339:ILE:HD11	1:L:464:LEU:HD22	1.75	0.69
1:O:27:THR:CG2	1:T:609:ARG:HH11	2.05	0.69
1:R:582:LEU:HD23	1:R:585:GLN:NE2	2.07	0.69
1:T:360:TYR:HD2	1:T:361:ASP:N	1.91	0.69
2:U:244:ASP:OD2	2:U:278:ILE:HG22	1.93	0.69
3:W:779:MET:HA	3:W:779:MET:HE2	1.74	0.69
4:X:206:LEU:HD22	4:X:206:LEU:N	2.08	0.69
4:X:597:GLU:HG3	4:X:636:ALA:CA	2.22	0.69
1:D:84:LYS:CD	1:E:39:GLY:O	2.40	0.69
1:F:450:SER:HA	1:F:453:ASN:ND2	2.07	0.69
1:H:375:LEU:HD23	1:H:437:ILE:CD1	2.15	0.69
1:J:360:TYR:HD2	1:J:361:ASP:N	1.91	0.69
1:N:375:LEU:HD23	1:N:437:ILE:CD1	2.15	0.69
2:U:221:GLY:H	2:U:337:ARG:HG2	1.57	0.69
4:X:790:PRO:HB3	4:X:795:ASP:HB3	1.74	0.69
4:X:1097:ALA:HB3	4:X:1098:PRO:HD3	1.73	0.69
4:Y:413:PRO:HG2	4:Y:440:ILE:HD11	1.74	0.69
1:B:277:ASP:O	1:B:278:THR:CG2	2.37	0.68
1:F:339:ILE:HD13	1:F:349:LEU:HD21	1.75	0.68
1:H:360:TYR:HD2	1:H:361:ASP:N	1.91	0.68
1:H:517:LEU:HG	1:H:601:THR:HG22	1.74	0.68
1:J:274:ILE:CD1	1:J:514:LEU:HD22	2.10	0.68
1:L:360:TYR:HD2	1:L:361:ASP:N	1.92	0.68
1:R:416:ARG:CB	1:T:298:PHE:CE1	2.76	0.68
1:R:579:ASN:ND2	1:R:582:LEU:HG	2.06	0.68
1:T:582:LEU:HD23	1:T:585:GLN:NE2	2.07	0.68
3:W:577:LEU:HD23	3:W:579:TYR:H	1.58	0.68
3:W:1063:VAL:HG22	3:W:1110:VAL:HG22	1.74	0.68
4:X:429:ASN:HD22	4:X:429:ASN:N	1.91	0.68
4:X:718:THR:HA	4:X:726:ARG:NH1	2.07	0.68
4:X:940:GLN:NE2	4:X:944:ASN:HD22	1.90	0.68
5:A:649:MYR:H21	1:B:191:LYS:CE	2.23	0.68
1:D:274:ILE:CD1	1:D:514:LEU:HD22	2.10	0.68
1:J:469:VAL:CG2	1:L:575:MET:HB2	2.23	0.68
1:L:237:GLU:CD	1:N:46:LYS:HZ3	2.02	0.68
1:R:411:VAL:HG11	1:T:461:ASP:HB3	1.76	0.68
3:W:261:LEU:O	3:W:264:GLU:HG3	1.94	0.68
3:W:470:MET:HG2	3:W:473:ARG:NH2	2.09	0.68
4:X:355:LYS:O	4:X:358:GLN:HB3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:972:MET:HE2	4:X:977:VAL:O	1.94	0.68
4:Y:300:MET:HE1	4:Y:975:PHE:HD2	1.56	0.68
4:Y:606:MET:HE3	4:Y:610:THR:HG21	1.76	0.68
1:B:274:ILE:CD1	1:B:514:LEU:HD22	2.10	0.68
1:C:29:THR:CG2	1:H:609:ARG:HB3	2.14	0.68
1:D:48:TRP:CE2	1:D:63:ILE:HG23	2.28	0.68
1:J:339:ILE:HD11	1:J:464:LEU:HD22	1.75	0.68
1:J:575:MET:CG	1:N:469:VAL:HG23	2.23	0.68
1:P:341:MET:HE2	1:P:341:MET:CA	2.18	0.68
1:P:609:ARG:NH1	1:Q:27:THR:CG2	2.56	0.68
1:P:609:ARG:HH11	1:Q:27:THR:CG2	2.05	0.68
1:T:339:ILE:HD13	1:T:349:LEU:HD21	1.75	0.68
4:Y:1213:ALA:O	4:Y:1214:THR:HG23	1.92	0.68
1:B:360:TYR:HD2	1:B:361:ASP:N	1.91	0.68
1:E:26:MET:HG3	1:F:216:PRO:CG	2.21	0.68
1:H:579:ASN:ND2	1:H:582:LEU:HG	2.06	0.68
1:J:411:VAL:HG11	1:L:461:ASP:HB3	1.76	0.68
1:L:339:ILE:HD13	1:L:349:LEU:HD21	1.75	0.68
5:Q:649:MYR:C2	1:R:191:LYS:HE2	2.23	0.68
2:U:37:TRP:HZ3	2:U:72:LEU:HD11	1.58	0.68
3:W:243:GLN:HB2	4:X:652:GLN:HG2	1.74	0.68
3:W:577:LEU:HD21	3:W:579:TYR:HB2	1.74	0.68
3:W:831:LEU:HD12	3:W:892:SER:O	1.94	0.68
4:Y:777:ASN:HB2	4:Y:942:GLY:HA2	1.74	0.68
4:Y:1060:ARG:NH2	4:Y:1101:GLU:HB3	2.09	0.68
1:I:39:GLY:O	1:N:84:LYS:CD	2.40	0.68
1:J:298:PHE:CE1	1:N:416:ARG:CB	2.76	0.68
1:L:469:VAL:HG23	1:N:575:MET:CG	2.23	0.68
1:P:575:MET:HE2	1:T:348:VAL:HG21	1.76	0.68
5:Q:649:MYR:H52	5:Q:649:MYR:H91	1.73	0.68
3:W:114:ASN:HB3	3:W:117:VAL:CG1	2.23	0.68
3:W:448:ASP:CG	3:W:673:ALA:HB2	2.18	0.68
3:W:617:VAL:HG13	3:W:658:VAL:HG12	1.76	0.68
1:D:298:PHE:CE1	1:H:416:ARG:CB	2.76	0.68
1:D:339:ILE:HD11	1:D:464:LEU:HD22	1.75	0.68
1:D:517:LEU:HG	1:D:601:THR:HG22	1.74	0.68
1:D:575:MET:HB2	1:H:469:VAL:CG2	2.24	0.68
1:D:575:MET:CG	1:H:469:VAL:HG23	2.23	0.68
1:D:609:ARG:HH11	1:E:27:THR:CG2	2.05	0.68
5:E:649:MYR:C2	1:F:191:LYS:HE2	2.23	0.68
1:J:549:LEU:HD12	1:J:549:LEU:C	2.19	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:575:MET:HB2	1:N:469:VAL:CG2	2.24	0.68
5:K:649:MYR:H31	1:L:191:LYS:CG	2.23	0.68
1:L:416:ARG:CB	1:N:298:PHE:CE1	2.76	0.68
1:N:339:ILE:HD13	1:N:349:LEU:HD21	1.75	0.68
2:U:16:GLN:OE1	2:U:380:ALA:HA	1.93	0.68
3:W:248:LEU:HD13	4:X:628:PRO:HD2	1.76	0.68
3:W:650:VAL:HG12	3:W:651:ASN:H	1.59	0.68
4:X:541:VAL:HG23	4:X:809:ALA:O	1.93	0.68
4:X:792:GLN:HB2	4:X:931:ILE:HD13	1.74	0.68
4:X:1019:THR:HG21	4:Y:429:ASN:HD21	1.58	0.68
1:A:26:MET:HG3	1:B:216:PRO:CG	2.21	0.68
1:B:582:LEU:HD23	1:B:585:GLN:NE2	2.08	0.68
1:D:137:ILE:HD13	1:D:142:ILE:HG13	1.76	0.68
1:D:575:MET:HE2	1:H:348:VAL:HG21	1.76	0.68
1:H:413:GLY:O	1:H:415:PRO:HD3	1.94	0.68
1:J:98:ALA:CB	1:J:206:GLU:HG2	2.24	0.68
4:X:1122:PRO:HA	4:X:1159:GLY:HA3	1.74	0.68
1:F:360:TYR:HD2	1:F:361:ASP:N	1.91	0.68
1:L:277:ASP:O	1:L:278:THR:CG2	2.37	0.68
1:N:360:TYR:HD2	1:N:361:ASP:N	1.91	0.68
1:P:545:VAL:CG2	1:R:637:PHE:HE2	2.01	0.68
1:P:549:LEU:C	1:P:549:LEU:HD12	2.19	0.68
3:W:934:ASN:HD22	3:W:934:ASN:H	1.42	0.68
4:X:464:SER:HB2	4:Y:500:ILE:HG22	1.65	0.68
4:X:535:TRP:CE2	4:X:678:PRO:HG3	2.28	0.68
4:Y:294:ARG:HD3	4:Y:885:LEU:O	1.93	0.68
4:Y:996:MET:HB3	4:Y:1143:ASN:HB3	1.75	0.68
1:D:98:ALA:CB	1:D:206:GLU:HG2	2.24	0.68
1:D:461:ASP:HB3	1:H:411:VAL:HG11	1.76	0.68
1:J:49:ARG:HB2	1:J:64:VAL:HG22	1.76	0.68
1:J:96:PHE:HD1	1:J:101:THR:HG23	1.56	0.68
1:N:294:TYR:HH	1:N:502:LEU:HA	1.57	0.68
1:P:92:TRP:CD1	1:P:156:VAL:CG2	2.77	0.68
1:P:461:ASP:HB3	1:T:411:VAL:HG11	1.76	0.68
1:P:469:VAL:CG2	1:R:575:MET:HB2	2.24	0.68
1:R:469:VAL:HG23	1:T:575:MET:CG	2.23	0.68
1:T:294:TYR:HH	1:T:502:LEU:HA	1.55	0.68
3:W:39:LEU:H	3:W:89:HIS:HE1	1.41	0.68
3:W:929:MET:HE1	3:W:981:LEU:HD11	1.73	0.68
4:X:718:THR:HA	4:X:726:ARG:HH11	1.59	0.68
4:X:850:MET:HE3	4:X:851:PHE:CE2	2.28	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:27:THR:O	1:C:27:THR:CG2	2.38	0.68
1:D:469:VAL:CG2	1:F:575:MET:HB2	2.23	0.68
1:F:339:ILE:HD11	1:F:464:LEU:HD22	1.75	0.68
1:P:55:VAL:HG11	3:W:348:GLN:CD	2.19	0.68
1:T:98:ALA:CB	1:T:206:GLU:HG2	2.24	0.68
2:U:211:LEU:HD13	2:U:211:LEU:O	1.93	0.68
3:W:1044:LEU:HD11	3:W:1103:THR:C	2.19	0.68
4:X:633:PRO:HG3	4:X:640:ARG:HH11	1.58	0.68
4:X:1122:PRO:CA	4:X:1159:GLY:HA3	2.24	0.68
4:Y:215:LEU:N	4:Y:215:LEU:HD23	2.09	0.68
1:D:549:LEU:C	1:D:549:LEU:HD12	2.19	0.67
1:F:413:GLY:O	1:F:415:PRO:HD3	1.94	0.67
1:L:549:LEU:C	1:L:549:LEU:HD12	2.19	0.67
1:P:98:ALA:CB	1:P:206:GLU:HG2	2.24	0.67
1:P:358:LEU:CD1	1:P:417:PHE:CE2	2.62	0.67
1:R:549:LEU:HD12	1:R:549:LEU:C	2.19	0.67
1:T:101:THR:OG1	1:T:102:GLY:N	2.26	0.67
4:X:444:TRP:O	4:X:854:ASN:HB3	1.94	0.67
4:Y:218:GLU:HG3	4:Y:219:LEU:N	2.07	0.67
4:Y:464:SER:HB3	4:Y:804:HIS:NE2	2.08	0.67
1:B:274:ILE:HD11	1:B:514:LEU:HD21	1.73	0.67
1:B:294:TYR:HH	1:B:502:LEU:HA	1.56	0.67
1:B:413:GLY:O	1:B:415:PRO:HD3	1.94	0.67
1:B:450:SER:HA	1:B:453:ASN:ND2	2.06	0.67
1:D:360:TYR:HD2	1:D:361:ASP:N	1.91	0.67
1:D:411:VAL:HG11	1:F:461:ASP:HB3	1.76	0.67
1:F:469:VAL:HG23	1:H:575:MET:CG	2.23	0.67
1:H:92:TRP:CD1	1:H:156:VAL:CG2	2.77	0.67
1:P:339:ILE:HD13	1:P:349:LEU:HD21	1.75	0.67
1:P:360:TYR:HD2	1:P:361:ASP:N	1.91	0.67
1:Q:26:MET:HG3	1:R:216:PRO:CG	2.21	0.67
1:R:469:VAL:CG2	1:T:575:MET:HB2	2.24	0.67
1:T:450:SER:HA	1:T:453:ASN:ND2	2.06	0.67
4:X:432:ILE:O	4:X:432:ILE:HD13	1.93	0.67
1:F:505:ASP:OD1	1:F:508:VAL:HG23	1.95	0.67
1:L:609:ARG:NH1	1:M:27:THR:CG2	2.56	0.67
1:P:575:MET:CG	1:T:469:VAL:HG23	2.23	0.67
1:R:339:ILE:HD13	1:R:349:LEU:HD21	1.75	0.67
1:R:348:VAL:HG21	1:T:575:MET:HE2	1.76	0.67
1:T:549:LEU:C	1:T:549:LEU:HD12	2.19	0.67
2:U:233:TYR:HE2	2:U:251:ASN:HB2	1.58	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:241:LEU:O	4:X:1179:VAL:CG1	2.43	0.67
4:X:347:ARG:HG3	4:X:368:ILE:CD1	2.24	0.67
4:Y:587:MET:HE1	4:Y:601:ILE:HD11	1.76	0.67
4:Y:645:HIS:O	4:Y:649:ASN:HB2	1.93	0.67
4:Y:784:LEU:HD23	4:Y:799:ASP:HB3	1.75	0.67
1:F:549:LEU:C	1:F:549:LEU:HD12	2.19	0.67
1:H:505:ASP:OD1	1:H:508:VAL:HG23	1.95	0.67
1:I:27:THR:CG2	1:N:609:ARG:NH1	2.56	0.67
1:L:348:VAL:HG21	1:N:575:MET:HE2	1.76	0.67
1:L:449:THR:HG22	1:L:450:SER:H	1.60	0.67
1:L:525:ILE:CD1	1:L:604:VAL:HG13	2.25	0.67
1:N:525:ILE:CD1	1:N:604:VAL:HG13	2.25	0.67
1:O:27:THR:CG2	1:T:609:ARG:NH1	2.56	0.67
1:P:575:MET:HB2	1:T:469:VAL:CG2	2.24	0.67
1:R:92:TRP:CD1	1:R:156:VAL:CG2	2.77	0.67
1:R:360:TYR:HD2	1:R:361:ASP:N	1.91	0.67
1:T:521:VAL:CG2	1:T:577:VAL:HG22	2.25	0.67
2:U:143:HIS:CE1	2:U:291:THR:HB	2.29	0.67
4:X:269:SER:O	4:X:270:SER:HB3	1.94	0.67
4:X:416:ILE:CG2	4:X:445:PHE:CE2	2.77	0.67
4:Y:217:LYS:O	4:Y:218:GLU:HB3	1.93	0.67
4:Y:705:ILE:CG2	4:Y:737:ARG:HB2	2.24	0.67
1:B:549:LEU:HD12	1:B:549:LEU:C	2.19	0.67
1:D:525:ILE:CD1	1:D:604:VAL:HG13	2.25	0.67
1:H:339:ILE:HD11	1:H:464:LEU:HD22	1.75	0.67
1:N:413:GLY:O	1:N:415:PRO:HD3	1.94	0.67
1:R:147:ARG:NH1	1:R:147:ARG:HB2	2.10	0.67
1:T:413:GLY:O	1:T:415:PRO:HD3	1.94	0.67
1:T:505:ASP:OD1	1:T:508:VAL:HG23	1.95	0.67
3:W:998:LEU:HD13	3:W:1002:ILE:HD12	1.76	0.67
1:B:92:TRP:NE1	1:B:156:VAL:CG2	2.58	0.67
1:B:147:ARG:NH1	1:B:147:ARG:HB2	2.10	0.67
1:B:521:VAL:CG2	1:B:577:VAL:HG22	2.25	0.67
1:H:274:ILE:HD11	1:H:514:LEU:HD21	1.73	0.67
1:H:505:ASP:O	1:H:506:ALA:C	2.38	0.67
1:H:525:ILE:CD1	1:H:604:VAL:HG13	2.25	0.67
1:J:58:ILE:CG1	1:J:127:LEU:HD23	2.24	0.67
1:J:92:TRP:NE1	1:J:156:VAL:CG2	2.58	0.67
1:N:92:TRP:CD1	1:N:156:VAL:CG2	2.77	0.67
1:N:92:TRP:NE1	1:N:156:VAL:CG2	2.58	0.67
1:N:147:ARG:NH1	1:N:147:ARG:HB2	2.10	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:59:ASP:HB2	3:W:380:ASN:CB	2.24	0.67
1:P:274:ILE:HD11	1:P:514:LEU:HD21	1.73	0.67
1:R:92:TRP:NE1	1:R:156:VAL:CG2	2.58	0.67
1:T:92:TRP:CD1	1:T:156:VAL:CG2	2.77	0.67
1:T:92:TRP:NE1	1:T:156:VAL:CG2	2.58	0.67
2:U:31:GLY:O	2:U:32:CYS:SG	2.53	0.67
4:X:675:MET:HE2	4:X:768:GLN:NE2	2.10	0.67
4:X:982:LEU:HD23	4:X:982:LEU:C	2.19	0.67
4:Y:126:PHE:CE2	4:Y:135:HIS:HB2	2.29	0.67
4:Y:549:ALA:HB1	4:Y:815:PRO:HG3	1.75	0.67
1:D:147:ARG:NH1	1:D:147:ARG:HB2	2.10	0.67
1:D:348:VAL:HG21	1:F:575:MET:HE2	1.76	0.67
1:F:92:TRP:NE1	1:F:156:VAL:CG2	2.58	0.67
1:H:521:VAL:CG2	1:H:577:VAL:HG22	2.25	0.67
1:H:549:LEU:C	1:H:549:LEU:HD12	2.19	0.67
1:L:545:VAL:CG2	1:N:637:PHE:HE2	2.01	0.67
1:P:521:VAL:CG2	1:P:577:VAL:HG22	2.25	0.67
1:R:413:GLY:O	1:R:415:PRO:HD3	1.94	0.67
1:T:174:ILE:HG22	1:T:634:LYS:HD2	1.77	0.67
3:W:145:ASP:OD2	3:W:148:ILE:HB	1.95	0.67
3:W:695:ILE:HD11	3:W:1002:ILE:HG22	1.77	0.67
4:Y:483:VAL:HG11	4:Y:841:PHE:CE1	2.29	0.67
4:Y:594:ALA:HA	4:Y:608:GLN:HE22	1.57	0.67
4:Y:1030:GLN:HB2	4:Y:1040:ASP:HA	1.76	0.67
1:B:92:TRP:CD1	1:B:156:VAL:CG2	2.77	0.67
1:C:27:THR:CG2	1:H:609:ARG:NH1	2.56	0.67
1:D:92:TRP:NE1	1:D:156:VAL:CG2	2.58	0.67
1:D:339:ILE:HD13	1:D:349:LEU:HD21	1.75	0.67
1:D:413:GLY:O	1:D:415:PRO:HD3	1.94	0.67
1:D:571:ARG:NH2	1:H:427:GLU:OE1	2.27	0.67
1:E:21:THR:CG2	1:F:219:LYS:HE2	2.25	0.67
1:J:521:VAL:CG2	1:J:577:VAL:HG22	2.25	0.67
1:N:98:ALA:CB	1:N:206:GLU:HG2	2.24	0.67
5:O:649:MYR:H21	1:P:191:LYS:CE	2.23	0.67
1:R:521:VAL:CG2	1:R:577:VAL:HG22	2.25	0.67
1:S:21:THR:CG2	1:T:219:LYS:HE2	2.25	0.67
2:U:78:PRO:HG3	2:U:84:ILE:HA	1.75	0.67
3:W:712:ALA:HB2	3:W:760:TYR:HB3	1.76	0.67
4:X:257:ARG:HB2	4:X:310:LYS:HZ3	1.59	0.67
4:X:583:VAL:HG21	4:X:621:TRP:CD1	2.30	0.67
4:X:1013:VAL:HG12	4:X:1014:VAL:N	2.09	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1094:LEU:HD23	4:X:1132:ARG:HB3	1.77	0.67
4:Y:164:TRP:NE1	4:Y:165:ASP:HB2	2.09	0.67
1:B:333:PRO:HG3	1:B:454:PHE:HA	1.77	0.67
1:F:427:GLU:OE1	1:H:571:ARG:NH2	2.27	0.67
1:F:469:VAL:CG2	1:H:575:MET:HB2	2.24	0.67
1:H:98:ALA:CB	1:H:206:GLU:HG2	2.24	0.67
1:J:92:TRP:CD1	1:J:156:VAL:CG2	2.77	0.67
1:J:147:ARG:NH1	1:J:147:ARG:HB2	2.10	0.67
1:L:147:ARG:NH1	1:L:147:ARG:HB2	2.10	0.67
1:L:505:ASP:O	1:L:506:ALA:C	2.38	0.67
1:L:521:VAL:CG2	1:L:577:VAL:HG22	2.25	0.67
1:M:26:MET:HG3	1:N:216:PRO:CG	2.21	0.67
1:O:21:THR:CG2	1:P:219:LYS:HE2	2.25	0.67
1:R:98:ALA:CB	1:R:206:GLU:HG2	2.24	0.67
1:R:428:ARG:HG2	1:R:428:ARG:NH1	2.03	0.67
2:U:198:GLN:OE1	2:U:198:GLN:HA	1.95	0.67
3:W:891:ASP:HA	3:W:925:GLY:O	1.95	0.67
4:X:387:CYS:O	4:X:1194:LEU:HD23	1.93	0.67
4:Y:464:SER:OG	4:Y:800:ILE:HG23	1.94	0.67
4:Y:1108:ASN:HD21	4:Y:1110:ALA:HB3	1.60	0.67
1:D:92:TRP:CD1	1:D:156:VAL:CG2	2.77	0.67
1:D:505:ASP:OD1	1:D:508:VAL:HG23	1.95	0.67
1:F:98:ALA:CB	1:F:206:GLU:HG2	2.24	0.67
1:H:92:TRP:NE1	1:H:156:VAL:CG2	2.58	0.67
1:J:418:ASN:OD1	1:L:337:ARG:NH2	2.28	0.67
1:R:505:ASP:OD1	1:R:508:VAL:HG23	1.95	0.67
1:T:277:ASP:O	1:T:278:THR:CG2	2.37	0.67
2:U:40:ARG:NE	2:U:144:ILE:HG21	2.09	0.67
2:V:192:PHE:CA	4:Y:376:LEU:HD23	2.25	0.67
3:W:38:ASN:HA	3:W:89:HIS:HE1	1.59	0.67
3:W:74:PHE:CE1	3:W:79:LEU:HD21	2.30	0.67
3:W:934:ASN:HB2	3:W:956:TYR:CE2	2.30	0.67
4:X:653:PRO:HD3	4:X:773:ARG:HG3	1.76	0.67
4:X:864:PHE:HE1	4:X:952:PRO:HG3	1.57	0.67
4:X:872:ALA:HB3	4:X:881:VAL:HG21	1.75	0.67
1:B:174:ILE:HG22	1:B:634:LYS:HD2	1.77	0.66
1:D:52:GLY:O	1:D:53:THR:HB	1.95	0.66
1:D:418:ASN:OD1	1:F:337:ARG:NH2	2.28	0.66
1:F:49:ARG:HB2	1:F:64:VAL:CG2	2.25	0.66
1:F:92:TRP:CD1	1:F:156:VAL:CG2	2.77	0.66
1:F:348:VAL:HG21	1:H:575:MET:HE2	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:521:VAL:CG2	1:F:577:VAL:HG22	2.25	0.66
1:H:174:ILE:HG22	1:H:634:LYS:HD2	1.77	0.66
5:I:649:MYR:H21	1:J:191:LYS:CE	2.23	0.66
1:N:181:CYS:HB2	1:N:638:PHE:HB3	1.77	0.66
1:P:411:VAL:HG11	1:R:461:ASP:HB3	1.76	0.66
1:P:413:GLY:O	1:P:415:PRO:HD3	1.94	0.66
5:Q:649:MYR:H31	1:R:191:LYS:CG	2.23	0.66
1:R:449:THR:HG22	1:R:450:SER:H	1.60	0.66
2:U:160:GLU:O	2:U:161:VAL:HG13	1.94	0.66
3:W:695:ILE:HG12	3:W:708:LEU:HD12	1.75	0.66
4:X:295:SER:HA	4:X:874:CYS:SG	2.34	0.66
4:X:958:HIS:CD2	4:X:958:HIS:O	2.48	0.66
4:X:1006:ARG:HG3	4:X:1007:GLY:N	2.07	0.66
4:Y:317:PHE:CZ	4:Y:385:VAL:HG11	2.30	0.66
4:Y:486:LEU:HD12	4:Y:746:TYR:CD2	2.30	0.66
1:D:56:ALA:HB1	1:D:61:LEU:CD2	2.24	0.66
1:F:147:ARG:NH1	1:F:147:ARG:HB2	2.10	0.66
1:G:21:THR:CG2	1:H:219:LYS:HE2	2.25	0.66
1:J:337:ARG:NH2	1:N:418:ASN:OD1	2.28	0.66
1:J:413:GLY:O	1:J:415:PRO:HD3	1.94	0.66
1:J:575:MET:HE2	1:N:348:VAL:HG21	1.76	0.66
1:J:630:LEU:HD21	1:N:276:ALA:HA	1.78	0.66
1:L:49:ARG:HB2	1:L:64:VAL:CG2	2.26	0.66
1:L:92:TRP:CD1	1:L:156:VAL:CG2	2.77	0.66
1:L:469:VAL:CG2	1:N:575:MET:HB2	2.24	0.66
1:N:174:ILE:HG22	1:N:634:LYS:HD2	1.77	0.66
1:N:428:ARG:HG2	1:N:428:ARG:NH1	2.03	0.66
1:P:49:ARG:HB2	1:P:64:VAL:CG2	2.26	0.66
2:U:150:LEU:HD11	2:U:315:LEU:HB3	1.77	0.66
4:Y:384:MET:O	4:Y:384:MET:HG3	1.95	0.66
1:F:609:ARG:NH1	1:G:27:THR:CG2	2.56	0.66
1:L:92:TRP:NE1	1:L:156:VAL:CG2	2.58	0.66
1:L:174:ILE:HG22	1:L:634:LYS:HD2	1.77	0.66
1:L:309:GLU:OE1	1:L:335:PRO:CB	2.44	0.66
1:L:413:GLY:O	1:L:415:PRO:HD3	1.94	0.66
3:W:6:GLY:HA3	3:W:339:ARG:O	1.95	0.66
3:W:25:LEU:HD11	3:W:29:LEU:HB3	1.77	0.66
3:W:224:PRO:HG2	3:W:244:THR:HG22	1.76	0.66
3:W:709:GLY:HA3	3:W:763:ARG:NH2	2.11	0.66
4:X:282:TYR:CE2	4:Y:830:ASN:ND2	2.62	0.66
4:Y:54:VAL:HB	4:Y:57:GLN:HE21	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:750:MET:HB3	4:Y:837:TYR:OH	1.96	0.66
1:D:593:GLN:HB2	1:D:596:MET:HE2	1.78	0.66
1:F:411:VAL:HG11	1:H:461:ASP:HB3	1.76	0.66
1:H:181:CYS:HB2	1:H:638:PHE:HB3	1.78	0.66
1:J:333:PRO:HG3	1:J:454:PHE:HA	1.77	0.66
1:L:344:MET:CE	1:L:502:LEU:HD11	2.26	0.66
1:L:411:VAL:HG11	1:N:461:ASP:HB3	1.76	0.66
1:P:505:ASP:O	1:P:506:ALA:C	2.38	0.66
1:P:525:ILE:CD1	1:P:604:VAL:HG13	2.25	0.66
1:R:525:ILE:CD1	1:R:604:VAL:HG13	2.25	0.66
1:R:593:GLN:HB2	1:R:596:MET:HE2	1.78	0.66
2:U:378:PRO:O	2:U:379:ILE:HB	1.95	0.66
2:V:169:ALA:HB2	4:Y:1179:VAL:O	1.95	0.66
3:W:969:ASP:HB2	3:W:972:PRO:CD	2.18	0.66
4:Y:231:MET:HE3	4:Y:347:ARG:NH1	2.08	0.66
4:Y:709:ILE:HA	4:Y:733:MET:HE1	1.77	0.66
1:B:98:ALA:CB	1:B:206:GLU:HG2	2.24	0.66
1:B:449:THR:HG22	1:B:450:SER:H	1.60	0.66
1:D:337:ARG:NH2	1:H:418:ASN:OD1	2.28	0.66
1:D:521:VAL:CG2	1:D:577:VAL:HG22	2.25	0.66
1:F:276:ALA:HA	1:H:630:LEU:HD21	1.78	0.66
1:J:525:ILE:CD1	1:J:604:VAL:HG13	2.25	0.66
1:L:505:ASP:OD1	1:L:508:VAL:HG23	1.95	0.66
1:N:549:LEU:C	1:N:549:LEU:HD12	2.19	0.66
1:P:92:TRP:NE1	1:P:156:VAL:CG2	2.58	0.66
1:P:147:ARG:NH1	1:P:147:ARG:HB2	2.10	0.66
1:R:174:ILE:HG22	1:R:634:LYS:HD2	1.77	0.66
1:R:277:ASP:O	1:R:278:THR:CG2	2.37	0.66
1:T:147:ARG:NH1	1:T:147:ARG:HB2	2.09	0.66
1:T:333:PRO:HG3	1:T:454:PHE:HA	1.77	0.66
1:T:525:ILE:CD1	1:T:604:VAL:HG13	2.25	0.66
2:U:150:LEU:HD13	2:U:300:ILE:HD11	1.77	0.66
2:U:227:ARG:HG2	2:U:256:ALA:HB2	1.76	0.66
4:X:726:ARG:HA	4:X:729:MET:HE3	1.77	0.66
4:X:792:GLN:CG	4:X:931:ILE:HG23	2.25	0.66
4:X:979:ARG:HG3	4:X:980:GLY:H	1.58	0.66
4:Y:632:ASN:HB3	4:Y:634:GLN:HE22	1.59	0.66
4:Y:678:PRO:HG3	4:Y:771:PHE:CZ	2.30	0.66
4:Y:690:ALA:HB3	4:Y:691:PRO:CD	2.23	0.66
1:A:35:ASP:OD1	1:A:40:VAL:HB	1.96	0.66
1:C:35:ASP:OD1	1:C:40:VAL:HB	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:630:LEU:HD21	1:H:276:ALA:HA	1.78	0.66
1:F:277:ASP:O	1:F:278:THR:CG2	2.37	0.66
1:H:49:ARG:HB2	1:H:64:VAL:CG2	2.26	0.66
1:I:21:THR:CG2	1:J:219:LYS:HE2	2.25	0.66
1:J:609:ARG:HD2	1:K:29:THR:HG21	1.78	0.66
1:K:35:ASP:OD1	1:K:40:VAL:HB	1.96	0.66
1:P:276:ALA:HA	1:R:630:LEU:HD21	1.78	0.66
1:P:348:VAL:HG21	1:R:575:MET:HE2	1.76	0.66
2:V:191:ARG:HH12	4:Y:438:PRO:CG	2.09	0.66
3:W:1196:LEU:HD11	3:W:1229:ILE:HD12	1.76	0.66
4:X:205:MET:HB3	4:X:249:TRP:CD2	2.30	0.66
1:B:50:PRO:HA	1:B:60:SER:O	1.96	0.66
1:B:63:ILE:HG21	1:B:70:GLN:OE1	1.96	0.66
1:D:280:LEU:HD12	1:D:486:PRO:HG2	1.78	0.66
1:D:449:THR:HG22	1:D:450:SER:H	1.60	0.66
1:F:48:TRP:N	1:F:48:TRP:CD1	2.64	0.66
1:F:418:ASN:OD1	1:H:337:ARG:NH2	2.29	0.66
1:I:35:ASP:OD1	1:I:40:VAL:HB	1.96	0.66
1:J:461:ASP:HB3	1:N:411:VAL:HG11	1.76	0.66
1:J:571:ARG:NH2	1:N:427:GLU:OE1	2.27	0.66
1:L:50:PRO:HA	1:L:60:SER:O	1.96	0.66
1:L:98:ALA:CB	1:L:206:GLU:HG2	2.24	0.66
1:L:181:CYS:HB2	1:L:638:PHE:HB3	1.78	0.66
1:L:609:ARG:HD2	1:M:29:THR:HG21	1.78	0.66
1:M:21:THR:CG2	1:N:219:LYS:HE2	2.25	0.66
1:N:63:ILE:HG21	1:N:70:GLN:OE1	1.96	0.66
1:N:141:GLN:HA	1:N:141:GLN:NE2	2.11	0.66
1:N:521:VAL:CG2	1:N:577:VAL:HG22	2.25	0.66
1:R:309:GLU:OE1	1:R:335:PRO:CB	2.44	0.66
1:R:380:VAL:HG13	1:R:384:GLN:HG2	1.78	0.66
1:T:50:PRO:HA	1:T:60:SER:O	1.96	0.66
3:W:840:CYS:SG	3:W:854:MET:CG	2.83	0.66
3:W:1215:LEU:HD12	3:W:1215:LEU:C	2.21	0.66
4:X:884:PRO:HD3	4:X:962:GLN:HE22	1.61	0.66
4:X:1172:LEU:HB2	4:X:1191:TYR:CD2	2.30	0.66
4:Y:385:VAL:HG22	4:Y:386:GLU:H	1.60	0.66
4:Y:848:ASN:HD22	4:Y:848:ASN:N	1.92	0.66
1:D:609:ARG:NH1	1:E:27:THR:CG2	2.56	0.66
1:E:35:ASP:OD1	1:E:40:VAL:HB	1.96	0.66
1:H:147:ARG:NH1	1:H:147:ARG:HB2	2.10	0.66
1:H:280:LEU:HD12	1:H:486:PRO:HG2	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:505:ASP:OD1	1:J:508:VAL:HG23	1.95	0.66
1:L:48:TRP:CD1	1:L:48:TRP:N	2.64	0.66
1:L:216:PRO:HB3	1:L:234:PRO:HG3	1.78	0.66
1:L:428:ARG:HG2	1:L:428:ARG:NH1	2.03	0.66
1:O:26:MET:HG3	1:P:216:PRO:CG	2.21	0.66
1:P:309:GLU:OE1	1:P:335:PRO:CB	2.44	0.66
1:P:344:MET:CE	1:P:502:LEU:HD11	2.26	0.66
1:P:449:THR:HG22	1:P:450:SER:H	1.60	0.66
5:Q:649:MYR:C2	1:R:191:LYS:CE	2.73	0.66
1:T:48:TRP:CD1	1:T:48:TRP:N	2.64	0.66
2:U:198:GLN:NE2	4:X:662:LEU:HD13	2.11	0.66
4:X:856:ARG:HH22	4:X:917:GLY:C	2.04	0.66
4:X:1182:ASN:HD21	4:X:1184:LEU:HB2	1.59	0.66
4:Y:415:GLN:NE2	4:Y:662:LEU:HD23	2.10	0.66
4:Y:981:ASN:HD21	4:Y:1077:GLU:HG2	1.60	0.66
1:B:181:CYS:HB2	1:B:638:PHE:HB3	1.78	0.66
1:D:68:PHE:HB3	1:D:140:VAL:HG11	1.76	0.66
1:F:181:CYS:HB2	1:F:638:PHE:HB3	1.78	0.66
1:F:380:VAL:HG13	1:F:384:GLN:HG2	1.78	0.66
1:I:29:THR:HG21	1:N:609:ARG:HD2	1.78	0.66
1:P:337:ARG:NH2	1:T:418:ASN:OD1	2.28	0.66
1:P:505:ASP:OD1	1:P:508:VAL:HG23	1.95	0.66
1:P:593:GLN:HB2	1:P:596:MET:HE2	1.78	0.66
1:R:427:GLU:OE1	1:T:571:ARG:NH2	2.27	0.66
1:T:593:GLN:HB2	1:T:596:MET:HE2	1.78	0.66
2:U:40:ARG:HE	2:U:144:ILE:HG21	1.60	0.66
2:V:184:HIS:CE1	4:Y:436:LEU:HD13	2.30	0.66
3:W:436:GLY:HA3	3:W:1009:ASN:CA	2.25	0.66
4:X:330:ILE:HD12	4:X:340:LEU:HD11	1.78	0.66
1:B:505:ASP:O	1:B:506:ALA:C	2.38	0.66
1:B:593:GLN:HB2	1:B:596:MET:HE2	1.78	0.66
1:C:21:THR:CG2	1:D:219:LYS:HE2	2.25	0.66
1:D:56:ALA:CB	1:D:61:LEU:HD21	2.26	0.66
1:D:181:CYS:HB2	1:D:638:PHE:HB3	1.78	0.66
5:E:649:MYR:C2	1:F:191:LYS:CE	2.74	0.66
1:F:311:ASN:ND2	1:F:311:ASN:H	1.94	0.66
1:F:341:MET:HB2	1:F:431:ILE:CD1	2.26	0.66
1:J:280:LEU:HD12	1:J:486:PRO:HG2	1.78	0.66
5:K:649:MYR:C2	1:L:191:LYS:HE2	2.23	0.66
1:N:71:TYR:CE1	1:N:138:SER:HB3	2.31	0.66
1:N:505:ASP:OD1	1:N:508:VAL:HG23	1.95	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:216:PRO:HB3	1:P:234:PRO:HG3	1.78	0.66
1:P:427:GLU:OE1	1:R:571:ARG:NH2	2.27	0.66
1:P:571:ARG:NH2	1:T:427:GLU:OE1	2.27	0.66
1:Q:21:THR:CG2	1:R:219:LYS:HE2	2.25	0.66
1:R:71:TYR:CE1	1:R:138:SER:HB3	2.31	0.66
1:R:609:ARG:NH1	1:S:27:THR:CG2	2.56	0.66
1:T:344:MET:CE	1:T:502:LEU:HD11	2.26	0.66
1:T:449:THR:HG22	1:T:450:SER:H	1.60	0.66
2:U:178:THR:CG2	4:X:376:LEU:HD21	2.12	0.66
3:W:440:THR:HG21	3:W:492:ALA:HB1	1.77	0.66
3:W:1040:VAL:HB	3:W:1041:PRO:CD	2.20	0.66
4:X:424:ALA:O	4:X:427:LEU:HG	1.96	0.66
4:X:1030:GLN:HB3	4:X:1038:PRO:HB2	1.77	0.66
4:Y:394:LEU:HD11	4:Y:964:VAL:HG22	1.77	0.66
1:A:21:THR:CG2	1:B:219:LYS:HE2	2.25	0.65
1:B:525:ILE:CD1	1:B:604:VAL:HG13	2.25	0.65
1:F:344:MET:CE	1:F:502:LEU:HD11	2.26	0.65
1:F:358:LEU:CG	1:F:417:PHE:CE2	2.79	0.65
1:F:525:ILE:CD1	1:F:604:VAL:HG13	2.25	0.65
1:H:63:ILE:HG21	1:H:70:GLN:OE1	1.96	0.65
1:H:449:THR:HG22	1:H:450:SER:H	1.60	0.65
1:J:63:ILE:HG21	1:J:70:GLN:OE1	1.96	0.65
1:L:63:ILE:HG21	1:L:70:GLN:OE1	1.96	0.65
1:P:418:ASN:OD1	1:R:337:ARG:NH2	2.28	0.65
1:R:358:LEU:CG	1:R:417:PHE:CE2	2.79	0.65
1:T:216:PRO:HB3	1:T:234:PRO:HG3	1.78	0.65
2:U:284:ALA:O	2:U:288:GLN:HG3	1.95	0.65
2:V:210:TRP:O	2:V:214:ILE:HB	1.96	0.65
4:X:627:ASN:HD22	4:X:630:LEU:HG	1.60	0.65
4:X:633:PRO:O	4:X:637:PRO:HD3	1.96	0.65
4:Y:627:ASN:HD21	4:Y:629:GLN:HB2	1.61	0.65
4:Y:923:LEU:HD23	4:Y:931:ILE:HD13	1.77	0.65
1:B:505:ASP:OD1	1:B:508:VAL:HG23	1.95	0.65
1:D:216:PRO:HB3	1:D:234:PRO:HG3	1.78	0.65
1:D:333:PRO:HG3	1:D:454:PHE:HA	1.77	0.65
1:H:358:LEU:CG	1:H:417:PHE:CE2	2.79	0.65
1:H:428:ARG:HG2	1:H:428:ARG:NH1	2.03	0.65
1:J:339:ILE:HD13	1:J:349:LEU:HD21	1.75	0.65
1:J:449:THR:HG22	1:J:450:SER:H	1.60	0.65
1:J:593:GLN:HB2	1:J:596:MET:HE2	1.78	0.65
1:K:21:THR:CG2	1:L:219:LYS:HE2	2.25	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:37:LYS:NZ	1:N:264:SER:OG	2.23	0.65
1:P:57:THR:O	1:P:57:THR:CG2	2.44	0.65
1:P:280:LEU:HD12	1:P:486:PRO:HG2	1.78	0.65
1:P:333:PRO:HG3	1:P:454:PHE:HA	1.77	0.65
1:Q:37:LYS:NZ	1:T:264:SER:OG	2.23	0.65
1:R:418:ASN:OD1	1:T:337:ARG:NH2	2.28	0.65
1:T:141:GLN:HA	1:T:141:GLN:NE2	2.11	0.65
2:U:211:LEU:HD21	2:U:248:LEU:HD22	1.78	0.65
2:V:160:GLU:O	2:V:161:VAL:HG22	1.95	0.65
4:Y:626:LEU:HD11	4:Y:776:GLN:HE22	1.60	0.65
1:B:49:ARG:HB2	1:B:64:VAL:CG2	2.26	0.65
1:B:280:LEU:HD12	1:B:486:PRO:HG2	1.78	0.65
1:H:344:MET:CE	1:H:502:LEU:HD11	2.26	0.65
1:J:276:ALA:HA	1:L:630:LEU:HD21	1.77	0.65
1:L:333:PRO:HG3	1:L:454:PHE:HA	1.77	0.65
1:N:311:ASN:ND2	1:N:311:ASN:H	1.94	0.65
1:P:181:CYS:HB2	1:P:638:PHE:HB3	1.78	0.65
2:U:96:VAL:HG13	2:U:135:MET:HE2	1.78	0.65
2:U:140:GLN:HE22	2:U:190:TYR:HE1	1.44	0.65
2:U:168:ALA:C	2:U:170:THR:H	2.01	0.65
3:W:934:ASN:HB2	3:W:956:TYR:HE2	1.60	0.65
1:B:341:MET:HE2	1:B:341:MET:CA	2.18	0.65
1:B:344:MET:CE	1:B:502:LEU:HD11	2.26	0.65
1:F:593:GLN:HB2	1:F:596:MET:HE2	1.78	0.65
1:J:174:ILE:HG22	1:J:634:LYS:HD2	1.77	0.65
1:J:344:MET:CE	1:J:502:LEU:HD11	2.26	0.65
1:J:348:VAL:HG21	1:L:575:MET:HE2	1.76	0.65
1:J:358:LEU:CG	1:J:417:PHE:CE2	2.79	0.65
1:P:63:ILE:HG21	1:P:70:GLN:OE1	1.96	0.65
1:P:609:ARG:HD2	1:Q:29:THR:HG21	1.78	0.65
1:R:274:ILE:HD11	1:R:514:LEU:HD21	1.73	0.65
1:R:333:PRO:HG3	1:R:454:PHE:HA	1.77	0.65
1:T:63:ILE:HG21	1:T:70:GLN:OE1	1.96	0.65
4:X:600:ALA:C	4:X:623:PRO:HD2	2.20	0.65
1:D:341:MET:HB2	1:D:431:ILE:CD1	2.26	0.65
1:F:280:LEU:HD12	1:F:486:PRO:HG2	1.78	0.65
1:F:609:ARG:HD2	1:G:29:THR:HG21	1.78	0.65
1:H:50:PRO:HA	1:H:60:SER:O	1.96	0.65
1:J:341:MET:HB2	1:J:431:ILE:CD1	2.26	0.65
1:L:579:ASN:ND2	1:L:582:LEU:HG	2.06	0.65
1:N:49:ARG:HB2	1:N:64:VAL:CG2	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:344:MET:CE	1:N:502:LEU:HD11	2.26	0.65
1:P:51:VAL:HB	3:W:379:VAL:CG2	2.27	0.65
1:P:174:ILE:HG22	1:P:634:LYS:HD2	1.77	0.65
1:P:277:ASP:O	1:P:278:THR:CG2	2.37	0.65
1:P:311:ASN:ND2	1:P:311:ASN:H	1.94	0.65
1:R:311:ASN:H	1:R:311:ASN:ND2	1.94	0.65
1:S:28:SER:CA	1:T:216:PRO:HD2	2.27	0.65
2:U:121:ASP:C	2:U:123:ASN:H	2.01	0.65
2:U:198:GLN:HE21	4:X:662:LEU:CD1	2.09	0.65
2:V:224:ASN:H	2:V:224:ASN:HD22	1.44	0.65
4:X:397:HIS:HB2	4:X:1184:LEU:HD21	1.79	0.65
4:X:697:MET:CG	4:X:744:PRO:HA	2.25	0.65
4:X:718:THR:CG2	4:X:726:ARG:HH12	2.03	0.65
4:Y:246:MET:HE2	4:Y:262:ARG:HD2	1.79	0.65
4:Y:586:PHE:HA	4:Y:642:PHE:HE2	1.62	0.65
4:Y:633:PRO:HG2	4:Y:634:GLN:OE1	1.95	0.65
1:B:311:ASN:H	1:B:311:ASN:ND2	1.94	0.65
1:B:579:ASN:ND2	1:B:582:LEU:HG	2.06	0.65
1:D:344:MET:CE	1:D:502:LEU:HD11	2.26	0.65
1:D:380:VAL:HG13	1:D:384:GLN:HG2	1.78	0.65
1:D:575:MET:CE	1:H:469:VAL:CG2	2.43	0.65
1:E:28:SER:CA	1:F:216:PRO:HD2	2.27	0.65
1:F:579:ASN:ND2	1:F:582:LEU:HG	2.06	0.65
1:I:26:MET:HG3	1:I:26:MET:O	1.97	0.65
5:K:649:MYR:C2	1:L:191:LYS:CE	2.73	0.65
1:M:28:SER:CA	1:N:216:PRO:HD2	2.27	0.65
1:N:216:PRO:HB3	1:N:234:PRO:HG3	1.78	0.65
1:N:309:GLU:OE1	1:N:335:PRO:CB	2.44	0.65
1:P:71:TYR:CE1	1:P:138:SER:HB3	2.31	0.65
1:Q:35:ASP:OD1	1:Q:40:VAL:HB	1.96	0.65
1:T:67:ARG:CZ	1:T:67:ARG:HB2	2.27	0.65
1:T:280:LEU:HD12	1:T:486:PRO:HG2	1.78	0.65
1:T:358:LEU:CG	1:T:417:PHE:CE2	2.79	0.65
2:U:46:ILE:HD12	4:X:1197:TYR:HE2	1.62	0.65
2:U:136:TRP:HB3	2:U:137:PRO:HD3	1.78	0.65
2:U:150:LEU:HD13	2:U:300:ILE:CD1	2.27	0.65
3:W:650:VAL:HG12	3:W:651:ASN:N	2.11	0.65
4:Y:1015:GLY:CA	4:Y:1034:ASP:HA	2.26	0.65
1:D:505:ASP:O	1:D:506:ALA:C	2.38	0.65
1:F:174:ILE:HG22	1:F:634:LYS:HD2	1.77	0.65
5:G:649:MYR:H31	1:H:191:LYS:CG	2.26	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:67:ARG:CZ	1:L:67:ARG:HB2	2.27	0.65
1:N:50:PRO:HA	1:N:60:SER:O	1.96	0.65
1:N:333:PRO:HG3	1:N:454:PHE:HA	1.77	0.65
1:P:566:TRP:CZ2	1:R:195:PRO:HD3	2.32	0.65
1:P:630:LEU:HD21	1:T:276:ALA:HA	1.78	0.65
1:Q:26:MET:HG3	1:Q:26:MET:O	1.97	0.65
1:R:50:PRO:HA	1:R:60:SER:O	1.96	0.65
1:T:49:ARG:HB2	1:T:64:VAL:CG2	2.26	0.65
1:T:341:MET:HB2	1:T:431:ILE:CD1	2.26	0.65
2:U:224:ASN:ND2	2:U:226:SER:HB3	2.12	0.65
3:W:439:PHE:HD2	3:W:684:ARG:NH1	1.95	0.65
4:X:708:PHE:O	4:X:733:MET:HE1	1.97	0.65
4:X:1050:ASP:OD2	4:Y:1213:ALA:HB3	1.97	0.65
1:C:29:THR:HG21	1:H:609:ARG:HD2	1.78	0.65
1:D:92:TRP:CH2	1:D:160:GLN:HA	2.32	0.65
1:D:294:TYR:HH	1:D:502:LEU:HA	1.61	0.65
1:D:510:VAL:O	1:D:510:VAL:HG12	1.97	0.65
1:F:50:PRO:HA	1:F:60:SER:O	1.96	0.65
1:F:92:TRP:CH2	1:F:160:GLN:HA	2.32	0.65
1:F:216:PRO:HB3	1:F:234:PRO:HG3	1.78	0.65
1:F:333:PRO:HG3	1:F:454:PHE:HA	1.77	0.65
1:F:510:VAL:O	1:F:510:VAL:HG12	1.97	0.65
1:H:380:VAL:HG13	1:H:384:GLN:HG2	1.78	0.65
1:J:53:THR:O	1:J:54:SER:CB	2.43	0.65
1:J:92:TRP:CH2	1:J:160:GLN:HA	2.32	0.65
1:K:28:SER:CA	1:L:216:PRO:HD2	2.27	0.65
1:L:418:ASN:OD1	1:N:337:ARG:NH2	2.29	0.65
1:L:566:TRP:CZ2	1:N:195:PRO:HD3	2.32	0.65
1:R:49:ARG:HB2	1:R:64:VAL:CG2	2.26	0.65
1:T:510:VAL:O	1:T:510:VAL:HG12	1.97	0.65
2:U:46:ILE:HD11	4:X:384:MET:SD	2.36	0.65
2:U:241:LEU:O	2:U:242:ASN:HB3	1.94	0.65
3:W:222:ALA:HB3	4:X:655:GLU:HG3	1.78	0.65
3:W:727:LEU:HB3	3:W:728:PRO:HD3	1.77	0.65
4:X:931:ILE:HD11	4:Y:689:VAL:HG12	1.78	0.65
4:Y:544:VAL:O	4:Y:813:VAL:HG12	1.97	0.65
4:Y:582:PRO:HG3	4:Y:650:TRP:CE2	2.32	0.65
1:B:48:TRP:N	1:B:48:TRP:CD1	2.64	0.65
1:B:92:TRP:CH2	1:B:160:GLN:HA	2.32	0.65
1:D:427:GLU:OE1	1:F:571:ARG:NH2	2.27	0.65
1:H:49:ARG:HH12	1:H:115:THR:CG2	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:195:PRO:HD3	1:N:566:TRP:CZ2	2.32	0.65
1:L:92:TRP:CH2	1:L:160:GLN:HA	2.32	0.65
1:L:311:ASN:ND2	1:L:311:ASN:H	1.94	0.65
1:N:49:ARG:HH12	1:N:115:THR:CG2	2.10	0.65
1:P:510:VAL:O	1:P:510:VAL:HG12	1.97	0.65
1:Q:28:SER:CA	1:R:216:PRO:HD2	2.27	0.65
3:W:833:ASP:OD2	3:W:842:ILE:HD12	1.97	0.65
4:X:939:LEU:HG	4:X:945:VAL:HG23	1.79	0.65
4:Y:453:LEU:HD13	4:Y:952:PRO:HB3	1.79	0.65
1:B:309:GLU:OE1	1:B:335:PRO:CB	2.44	0.65
1:D:238:VAL:HG22	1:F:142:ILE:HD12	1.79	0.65
1:D:566:TRP:CZ2	1:F:195:PRO:HD3	2.32	0.65
1:H:92:TRP:CH2	1:H:160:GLN:HA	2.32	0.65
1:H:141:GLN:NE2	1:H:141:GLN:HA	2.11	0.65
1:J:341:MET:HE2	1:J:341:MET:CA	2.18	0.65
1:L:49:ARG:HH12	1:L:115:THR:CG2	2.10	0.65
1:L:294:TYR:HH	1:L:502:LEU:HA	1.60	0.65
1:N:449:THR:HG22	1:N:450:SER:H	1.60	0.65
1:P:579:ASN:ND2	1:P:582:LEU:HG	2.06	0.65
1:R:63:ILE:HG21	1:R:70:GLN:OE1	1.96	0.65
4:X:317:PHE:CD2	4:X:370:ARG:HB3	2.30	0.65
4:X:373:ARG:HG3	4:X:385:VAL:HG12	1.79	0.65
4:Y:468:ALA:C	4:Y:471:PRO:HD2	2.21	0.65
1:A:28:SER:CA	1:B:216:PRO:HD2	2.27	0.64
1:B:141:GLN:NE2	1:B:141:GLN:HA	2.11	0.64
1:B:216:PRO:HB3	1:B:234:PRO:HG3	1.78	0.64
5:C:649:MYR:C2	1:D:191:LYS:HE2	2.28	0.64
1:D:277:ASP:O	1:D:278:THR:CG2	2.37	0.64
1:F:309:GLU:OE1	1:F:335:PRO:CB	2.44	0.64
1:F:341:MET:HE2	1:F:341:MET:CA	2.18	0.64
1:H:71:TYR:CE1	1:H:138:SER:HB3	2.32	0.64
1:J:48:TRP:N	1:J:48:TRP:CD1	2.64	0.64
1:J:181:CYS:HB2	1:J:638:PHE:HB3	1.78	0.64
1:J:609:ARG:NH1	1:K:27:THR:CG2	2.56	0.64
1:L:548:LYS:HG3	1:N:645:TRP:CH2	2.32	0.64
1:N:48:TRP:N	1:N:48:TRP:CD1	2.64	0.64
1:N:341:MET:HE2	1:N:341:MET:CA	2.18	0.64
1:P:358:LEU:CG	1:P:417:PHE:CE2	2.79	0.64
1:R:341:MET:HB2	1:R:431:ILE:CD1	2.26	0.64
1:R:505:ASP:O	1:R:506:ALA:C	2.38	0.64
5:S:649:MYR:H31	1:T:191:LYS:CG	2.26	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:71:TYR:CE1	1:T:138:SER:HB3	2.31	0.64
4:X:660:SER:C	4:X:673:ASN:HD21	2.05	0.64
4:X:678:PRO:HD3	4:X:771:PHE:CE1	2.32	0.64
1:D:57:THR:O	1:D:60:SER:CB	2.45	0.64
1:D:71:TYR:CE1	1:D:138:SER:HB3	2.31	0.64
1:D:174:ILE:HG22	1:D:634:LYS:HD2	1.77	0.64
1:D:645:TRP:CH2	1:H:548:LYS:HG3	2.32	0.64
1:G:28:SER:CA	1:H:216:PRO:HD2	2.27	0.64
1:H:216:PRO:HB3	1:H:234:PRO:HG3	1.78	0.64
1:H:309:GLU:OE1	1:H:335:PRO:CB	2.44	0.64
1:H:311:ASN:ND2	1:H:311:ASN:H	1.94	0.64
1:J:71:TYR:CE1	1:J:138:SER:HB3	2.31	0.64
1:J:579:ASN:ND2	1:J:582:LEU:HG	2.06	0.64
1:L:71:TYR:CE1	1:L:138:SER:HB3	2.31	0.64
1:L:141:GLN:HA	1:L:141:GLN:NE2	2.11	0.64
1:M:26:MET:HG3	1:M:26:MET:O	1.97	0.64
1:R:216:PRO:HB3	1:R:234:PRO:HG3	1.78	0.64
1:R:344:MET:CE	1:R:502:LEU:HD11	2.26	0.64
1:R:609:ARG:HD2	1:S:29:THR:HG21	1.78	0.64
2:U:46:ILE:HD12	4:X:1197:TYR:CE2	2.31	0.64
3:W:219:ASN:ND2	4:X:674:ARG:NH1	2.45	0.64
3:W:450:THR:HB	3:W:672:THR:OG1	1.97	0.64
4:Y:988:ALA:CA	4:Y:1133:VAL:HG12	2.25	0.64
4:Y:1060:ARG:HH21	4:Y:1101:GLU:HB3	1.60	0.64
1:C:28:SER:CA	1:D:216:PRO:HD2	2.27	0.64
1:D:276:ALA:HA	1:F:630:LEU:HD21	1.78	0.64
1:F:63:ILE:HG21	1:F:70:GLN:OE1	1.96	0.64
1:L:358:LEU:CG	1:L:417:PHE:CE2	2.79	0.64
1:L:593:GLN:HB2	1:L:596:MET:HE2	1.78	0.64
1:N:380:VAL:HG13	1:N:384:GLN:HG2	1.78	0.64
1:N:593:GLN:HB2	1:N:596:MET:HE2	1.78	0.64
1:O:26:MET:HG3	1:O:26:MET:O	1.97	0.64
1:O:35:ASP:OD1	1:O:40:VAL:HB	1.96	0.64
1:P:147:ARG:NH1	1:P:147:ARG:CB	2.61	0.64
1:T:181:CYS:HB2	1:T:638:PHE:HB3	1.78	0.64
1:T:309:GLU:OE1	1:T:335:PRO:CB	2.44	0.64
1:T:505:ASP:O	1:T:506:ALA:C	2.38	0.64
1:T:536:THR:HB	1:T:570:LYS:HA	1.80	0.64
2:V:195:GLN:NE2	4:Y:377:ILE:HB	2.12	0.64
3:W:1163:LEU:HG	3:W:1190:ARG:NH2	2.12	0.64
4:X:787:ARG:HH21	4:X:787:ARG:HG2	1.54	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1031:LEU:HD12	4:X:1045:TRP:CZ3	2.32	0.64
4:X:1167:LEU:HB3	4:X:1187:ARG:NH1	2.12	0.64
4:Y:354:THR:O	4:Y:355:LYS:C	2.40	0.64
4:Y:1030:GLN:HB2	4:Y:1039:ARG:O	1.96	0.64
1:B:71:TYR:CE1	1:B:138:SER:HB3	2.31	0.64
1:F:548:LYS:HG3	1:H:645:TRP:CH2	2.32	0.64
1:H:147:ARG:NH1	1:H:147:ARG:CB	2.61	0.64
1:H:333:PRO:HG3	1:H:454:PHE:HA	1.77	0.64
1:J:93:GLN:N	1:J:94:PRO:HD2	2.13	0.64
1:J:297:ALA:HB2	1:J:460:MET:CB	2.26	0.64
1:J:311:ASN:H	1:J:311:ASN:ND2	1.94	0.64
1:J:645:TRP:CH2	1:N:548:LYS:HG3	2.32	0.64
1:P:141:GLN:NE2	1:P:141:GLN:HA	2.11	0.64
1:R:548:LYS:HG3	1:T:645:TRP:CH2	2.32	0.64
3:W:246:ASP:CB	3:W:256:SER:HA	2.26	0.64
3:W:641:THR:HG23	3:W:660:GLY:HA3	1.78	0.64
4:X:203:SER:OG	4:X:247:THR:HA	1.97	0.64
4:X:925:LEU:HD21	4:Y:496:ALA:CA	2.24	0.64
4:X:1014:VAL:HG13	4:X:1031:LEU:HD11	1.80	0.64
4:X:1106:LYS:HB3	4:X:1113:PRO:CG	2.27	0.64
1:B:67:ARG:CZ	1:B:67:ARG:HB2	2.27	0.64
1:B:341:MET:HB2	1:B:431:ILE:CD1	2.26	0.64
1:B:358:LEU:CG	1:B:417:PHE:CE2	2.79	0.64
1:D:147:ARG:NH1	1:D:147:ARG:CB	2.61	0.64
1:D:195:PRO:HD3	1:H:566:TRP:CZ2	2.32	0.64
1:D:363:ASN:ND2	1:D:366:LEU:HB2	2.13	0.64
1:F:49:ARG:HH12	1:F:115:THR:CG2	2.10	0.64
1:F:71:TYR:CE1	1:F:138:SER:HB3	2.31	0.64
1:F:141:GLN:HA	1:F:141:GLN:NE2	2.11	0.64
1:F:363:ASN:ND2	1:F:366:LEU:HB2	2.13	0.64
1:H:341:MET:HE2	1:H:341:MET:CA	2.18	0.64
1:H:593:GLN:HB2	1:H:596:MET:HE2	1.78	0.64
1:J:566:TRP:CZ2	1:L:195:PRO:HD3	2.32	0.64
5:M:649:MYR:H31	1:N:191:LYS:CG	2.26	0.64
1:N:280:LEU:HD12	1:N:486:PRO:HG2	1.78	0.64
1:N:358:LEU:CG	1:N:417:PHE:CE2	2.79	0.64
1:N:510:VAL:O	1:N:510:VAL:HG12	1.97	0.64
1:P:93:GLN:N	1:P:94:PRO:HD2	2.13	0.64
1:P:121:ALA:HB2	1:T:87:PHE:HD1	1.61	0.64
1:P:195:PRO:HD3	1:T:566:TRP:CZ2	2.32	0.64
1:P:469:VAL:CG2	1:R:575:MET:CE	2.43	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:520:VAL:CG1	1:P:608:LEU:HD11	2.28	0.64
1:R:181:CYS:HB2	1:R:638:PHE:HB3	1.78	0.64
1:R:276:ALA:HA	1:T:630:LEU:HD21	1.78	0.64
1:T:147:ARG:NH1	1:T:147:ARG:CB	2.61	0.64
2:U:379:ILE:HD12	2:U:388:PRO:HD3	1.79	0.64
2:V:184:HIS:CE1	4:Y:436:LEU:HD22	2.32	0.64
2:V:195:GLN:HE22	4:Y:377:ILE:N	1.94	0.64
3:W:709:GLY:HA3	3:W:763:ARG:HH21	1.62	0.64
4:X:493:LEU:CD1	4:X:497:ILE:HD12	2.27	0.64
4:X:940:GLN:NE2	4:X:944:ASN:HB3	2.12	0.64
4:X:1015:GLY:HA2	4:X:1034:ASP:HA	1.77	0.64
4:X:1150:ASN:HD22	4:X:1153:SER:HB2	1.61	0.64
4:Y:487:VAL:HG13	4:Y:826:GLN:O	1.97	0.64
4:Y:660:SER:HB3	4:Y:663:GLN:HG2	1.79	0.64
4:Y:848:ASN:N	4:Y:848:ASN:ND2	2.44	0.64
1:D:358:LEU:CD1	1:D:417:PHE:CE2	2.62	0.64
1:F:566:TRP:CZ2	1:H:195:PRO:HD3	2.32	0.64
1:J:141:GLN:NE2	1:J:141:GLN:HA	2.11	0.64
1:J:147:ARG:NH1	1:J:147:ARG:CB	2.61	0.64
1:J:309:GLU:OE1	1:J:335:PRO:CB	2.44	0.64
1:J:548:LYS:HG3	1:L:645:TRP:CH2	2.32	0.64
1:L:147:ARG:NH1	1:L:147:ARG:CB	2.61	0.64
1:L:308:ALA:HB1	1:L:383:GLN:NE2	2.13	0.64
1:N:363:ASN:ND2	1:N:366:LEU:HB2	2.13	0.64
1:O:29:THR:HG21	1:T:609:ARG:HD2	1.78	0.64
1:P:92:TRP:CH2	1:P:160:GLN:HA	2.32	0.64
1:R:93:GLN:N	1:R:94:PRO:HD2	2.13	0.64
1:R:238:VAL:CG2	1:T:78:MET:HE1	2.07	0.64
1:R:297:ALA:HB2	1:R:460:MET:CB	2.26	0.64
3:W:99:LEU:HD23	3:W:99:LEU:C	2.23	0.64
3:W:303:LEU:CD2	3:W:341:MET:HE3	2.27	0.64
3:W:775:ARG:HD2	3:W:868:ASP:HB2	1.79	0.64
3:W:843:LEU:CD2	3:W:854:MET:HE1	2.27	0.64
4:X:201:CYS:O	4:X:201:CYS:SG	2.56	0.64
4:X:464:SER:CB	4:Y:500:ILE:HG21	2.15	0.64
4:X:789:ASP:HB3	4:X:933:ASP:OD2	1.97	0.64
5:A:649:MYR:C2	1:B:191:LYS:HE2	2.27	0.64
1:B:363:ASN:ND2	1:B:366:LEU:HB2	2.13	0.64
1:D:58:ILE:HD11	1:D:127:LEU:HD23	1.79	0.64
1:D:308:ALA:HB1	1:D:383:GLN:NE2	2.13	0.64
1:D:609:ARG:HD2	1:E:29:THR:HG21	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:26:MET:HG3	1:E:26:MET:O	1.97	0.64
1:F:449:THR:HG22	1:F:450:SER:H	1.60	0.64
1:H:341:MET:HB2	1:H:431:ILE:CD1	2.26	0.64
1:L:276:ALA:HA	1:N:630:LEU:HD21	1.78	0.64
1:L:280:LEU:HD12	1:L:486:PRO:HG2	1.78	0.64
1:L:520:VAL:CG1	1:L:608:LEU:HD11	2.28	0.64
1:P:48:TRP:N	1:P:48:TRP:CD1	2.64	0.64
1:P:297:ALA:HB2	1:P:460:MET:CB	2.26	0.64
1:R:280:LEU:HD12	1:R:486:PRO:HG2	1.78	0.64
1:T:363:ASN:ND2	1:T:366:LEU:HB2	2.13	0.64
2:V:175:MET:SD	4:Y:400:GLU:O	2.55	0.64
3:W:434:VAL:HG22	3:W:1008:LEU:HD11	1.78	0.64
3:W:598:ALA:O	3:W:602:MET:HG3	1.97	0.64
3:W:672:THR:HG22	3:W:1081:VAL:HG13	1.80	0.64
3:W:672:THR:CG2	3:W:1081:VAL:HA	2.28	0.64
4:X:541:VAL:HG21	4:X:811:LEU:HG	1.80	0.64
4:X:865:VAL:CG1	4:X:958:HIS:HB2	2.28	0.64
1:B:93:GLN:N	1:B:94:PRO:HD2	2.13	0.64
1:B:147:ARG:NH1	1:B:147:ARG:CB	2.61	0.64
1:B:554:GLN:O	1:B:556:SER:N	2.31	0.64
1:D:66:ASP:OD1	1:D:67:ARG:N	2.30	0.64
1:D:554:GLN:O	1:D:556:SER:N	2.31	0.64
1:F:330:GLN:HE22	1:F:332:GLY:HA2	1.63	0.64
1:J:216:PRO:HB3	1:J:234:PRO:HG3	1.78	0.64
1:J:412:ARG:HA	1:L:455:SER:O	1.98	0.64
1:J:510:VAL:O	1:J:510:VAL:HG12	1.97	0.64
1:J:520:VAL:CG1	1:J:608:LEU:HD11	2.28	0.64
1:L:554:GLN:O	1:L:556:SER:N	2.31	0.64
1:N:92:TRP:CH2	1:N:160:GLN:HA	2.32	0.64
1:P:341:MET:HB2	1:P:431:ILE:CD1	2.26	0.64
1:R:141:GLN:NE2	1:R:141:GLN:HA	2.11	0.64
1:T:93:GLN:N	1:T:94:PRO:HD2	2.13	0.64
1:T:311:ASN:ND2	1:T:311:ASN:H	1.94	0.64
2:U:89:GLY:C	2:U:103:VAL:HG23	2.23	0.64
2:U:166:MET:HE1	2:U:174:LEU:HD12	1.79	0.64
2:U:305:LEU:HG	2:U:306:PRO:HD2	1.80	0.64
2:V:68:VAL:O	2:V:72:LEU:HB2	1.97	0.64
2:V:208:ILE:HG23	2:V:290:VAL:HG22	1.80	0.64
3:W:603:LEU:HD23	3:W:603:LEU:O	1.98	0.64
4:X:392:ASP:HB2	4:X:1188:ILE:CG2	2.27	0.64
4:Y:996:MET:CB	4:Y:1143:ASN:HB3	2.28	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:26:MET:HG3	1:A:26:MET:O	1.97	0.64
1:B:490:MET:HE3	1:B:597:LEU:HD13	1.80	0.64
1:B:520:VAL:CG1	1:B:608:LEU:HD11	2.28	0.64
1:D:309:GLU:OE1	1:D:335:PRO:CB	2.44	0.64
1:F:139:THR:O	1:F:142:ILE:HG23	1.98	0.64
1:F:308:ALA:HB1	1:F:383:GLN:NE2	2.13	0.64
1:F:358:LEU:CD1	1:F:417:PHE:CE2	2.62	0.64
1:L:363:ASN:ND2	1:L:366:LEU:HB2	2.13	0.64
1:N:93:GLN:N	1:N:94:PRO:HD2	2.13	0.64
1:N:308:ALA:HB1	1:N:383:GLN:NE2	2.13	0.64
1:N:536:THR:HB	1:N:570:LYS:HA	1.80	0.64
1:P:67:ARG:CZ	1:P:67:ARG:HB2	2.27	0.64
1:P:363:ASN:ND2	1:P:366:LEU:HB2	2.13	0.64
1:P:455:SER:O	1:T:412:ARG:HA	1.98	0.64
1:R:48:TRP:N	1:R:48:TRP:CD1	2.64	0.64
1:R:92:TRP:CH2	1:R:160:GLN:HA	2.32	0.64
1:R:167:MET:HG2	1:R:215:TYR:CZ	2.33	0.64
2:U:44:LEU:HA	2:U:51:LEU:HD11	1.80	0.64
2:U:185:LEU:HD13	2:U:211:LEU:HD11	1.80	0.64
3:W:789:ARG:HG3	3:W:789:ARG:O	1.97	0.64
4:X:427:LEU:O	4:X:428:LEU:CB	2.45	0.64
4:X:691:PRO:HA	4:X:742:MET:HE3	1.78	0.64
1:D:49:ARG:NH2	1:D:115:THR:HG21	2.14	0.64
1:D:93:GLN:N	1:D:94:PRO:HD2	2.13	0.64
1:D:341:MET:HE2	1:D:341:MET:CA	2.18	0.64
1:G:26:MET:HG3	1:G:26:MET:O	1.97	0.64
1:H:67:ARG:CZ	1:H:67:ARG:HB2	2.27	0.64
1:J:330:GLN:HE22	1:J:332:GLY:HA2	1.63	0.64
1:L:167:MET:HG2	1:L:215:TYR:CZ	2.33	0.64
1:N:341:MET:HB2	1:N:431:ILE:CD1	2.26	0.64
1:N:358:LEU:CD1	1:N:417:PHE:CE2	2.62	0.64
1:P:167:MET:HG2	1:P:215:TYR:CZ	2.33	0.64
1:P:490:MET:HE3	1:P:597:LEU:HD13	1.80	0.64
1:R:490:MET:HE3	1:R:597:LEU:HD13	1.80	0.64
5:S:649:MYR:C2	1:T:191:LYS:HE2	2.28	0.64
1:T:341:MET:CB	1:T:431:ILE:HD11	2.28	0.64
2:U:178:THR:CB	4:X:376:LEU:HD23	2.27	0.64
3:W:906:ALA:O	3:W:908:THR:HG23	1.97	0.64
4:X:464:SER:CB	4:Y:500:ILE:HG22	2.26	0.64
4:X:597:GLU:HG3	4:X:636:ALA:CB	2.28	0.64
4:Y:848:ASN:ND2	4:Y:848:ASN:H	1.95	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:510:VAL:O	1:B:510:VAL:HG12	1.97	0.63
1:C:37:LYS:NZ	1:F:264:SER:OG	2.23	0.63
1:H:491:ALA:CB	1:H:592:THR:HB	2.28	0.63
1:L:93:GLN:N	1:L:94:PRO:HD2	2.13	0.63
1:N:147:ARG:NH1	1:N:147:ARG:CB	2.61	0.63
1:O:28:SER:CA	1:P:216:PRO:HD2	2.27	0.63
1:T:308:ALA:HB1	1:T:383:GLN:NE2	2.13	0.63
1:T:490:MET:HE3	1:T:597:LEU:HD13	1.80	0.63
1:T:579:ASN:ND2	1:T:582:LEU:HG	2.06	0.63
2:U:41:PHE:HE1	4:X:404:MET:HE1	1.61	0.63
3:W:733:ALA:HB2	3:W:779:MET:CE	2.28	0.63
3:W:934:ASN:H	3:W:934:ASN:ND2	1.95	0.63
4:X:242:ARG:NH2	4:X:1085:LEU:CD1	2.56	0.63
4:X:793:ARG:NH1	4:Y:693:TYR:HE2	1.95	0.63
4:Y:483:VAL:HG13	4:Y:840:ALA:HB1	1.78	0.63
1:B:167:MET:HG2	1:B:215:TYR:CZ	2.33	0.63
1:B:292:ARG:HG2	1:B:292:ARG:HH11	1.64	0.63
1:D:311:ASN:ND2	1:D:311:ASN:H	1.94	0.63
1:F:93:GLN:N	1:F:94:PRO:HD2	2.13	0.63
1:F:147:ARG:NH1	1:F:147:ARG:CB	2.61	0.63
1:H:308:ALA:HB1	1:H:383:GLN:NE2	2.13	0.63
1:J:67:ARG:CZ	1:J:67:ARG:HB2	2.27	0.63
1:J:308:ALA:HB1	1:J:383:GLN:NE2	2.13	0.63
1:J:380:VAL:HG13	1:J:384:GLN:HG2	1.78	0.63
1:N:67:ARG:HB2	1:N:67:ARG:CZ	2.27	0.63
1:N:274:ILE:HD11	1:N:514:LEU:HD21	1.73	0.63
1:P:173:ASP:HB2	1:T:606:THR:HG21	1.80	0.63
1:P:491:ALA:CB	1:P:592:THR:HB	2.28	0.63
1:P:554:GLN:O	1:P:556:SER:N	2.31	0.63
1:P:575:MET:HE2	1:T:348:VAL:CG2	2.29	0.63
1:R:341:MET:CB	1:R:431:ILE:HD11	2.28	0.63
1:R:491:ALA:CB	1:R:592:THR:HB	2.28	0.63
1:T:92:TRP:CH2	1:T:160:GLN:HA	2.32	0.63
3:W:242:PRO:HG3	3:W:261:LEU:HD12	1.79	0.63
3:W:651:ASN:HD21	3:W:685:ASN:CG	2.06	0.63
4:X:380:GLU:CD	4:X:438:PRO:HG2	2.24	0.63
4:X:391:CYS:SG	4:X:1194:LEU:HD13	2.38	0.63
4:X:697:MET:CE	4:X:822:MET:HG3	2.27	0.63
4:Y:390:LEU:HD12	4:Y:390:LEU:O	1.98	0.63
1:F:67:ARG:HB2	1:F:67:ARG:CZ	2.27	0.63
1:F:341:MET:CB	1:F:431:ILE:HD11	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:311:ASN:H	1:H:311:ASN:HD22	1.47	0.63
1:H:341:MET:CB	1:H:431:ILE:HD11	2.28	0.63
1:J:154:ARG:HB3	1:J:154:ARG:HH11	1.63	0.63
1:J:173:ASP:HB2	1:N:606:THR:HG21	1.80	0.63
1:J:436:TYR:OH	1:T:435:PRO:HG2	1.98	0.63
1:J:505:ASP:O	1:J:506:ALA:C	2.38	0.63
1:L:165:THR:O	1:L:169:MET:HB2	1.99	0.63
1:N:330:GLN:HE22	1:N:332:GLY:HA2	1.63	0.63
1:R:67:ARG:CZ	1:R:67:ARG:HB2	2.27	0.63
1:R:520:VAL:CG1	1:R:608:LEU:HD11	2.28	0.63
2:U:196:LEU:HD21	4:X:448:SER:HB2	1.81	0.63
3:W:81:TYR:HA	3:W:180:LEU:HD23	1.80	0.63
4:X:283:ILE:HD11	4:X:287:GLN:C	2.23	0.63
4:Y:73:ASN:OD1	4:Y:74:ASN:N	2.31	0.63
4:Y:709:ILE:HG12	4:Y:733:MET:HE3	1.80	0.63
4:Y:1021:VAL:HG23	4:Y:1021:VAL:O	1.96	0.63
1:D:292:ARG:HH11	1:D:292:ARG:HG2	1.64	0.63
1:D:298:PHE:CE2	1:H:355:GLY:HA3	2.33	0.63
1:D:455:SER:O	1:H:412:ARG:HA	1.98	0.63
1:F:165:THR:O	1:F:169:MET:HB2	1.99	0.63
1:F:238:VAL:HG11	1:H:82:PHE:HZ	1.64	0.63
1:H:48:TRP:N	1:H:48:TRP:CD1	2.64	0.63
1:H:490:MET:HE3	1:H:597:LEU:HD13	1.80	0.63
1:J:341:MET:CB	1:J:431:ILE:HD11	2.28	0.63
1:J:427:GLU:OE1	1:L:571:ARG:NH2	2.27	0.63
1:J:554:GLN:O	1:J:556:SER:N	2.31	0.63
1:K:26:MET:HG3	1:K:26:MET:O	1.97	0.63
1:L:348:VAL:CG2	1:N:575:MET:HE2	2.29	0.63
1:P:176:ALA:O	1:P:631:THR:HG21	1.99	0.63
1:P:311:ASN:H	1:P:311:ASN:HD22	1.46	0.63
1:P:645:TRP:CH2	1:T:548:LYS:HG3	2.32	0.63
1:R:147:ARG:NH1	1:R:147:ARG:CB	2.61	0.63
1:R:176:ALA:O	1:R:631:THR:HG21	1.99	0.63
1:R:363:ASN:ND2	1:R:366:LEU:HB2	2.13	0.63
1:R:606:THR:HG21	1:T:173:ASP:HB2	1.80	0.63
1:S:26:MET:HG3	1:S:26:MET:O	1.97	0.63
1:T:165:THR:O	1:T:169:MET:HB2	1.99	0.63
2:V:156:ILE:HG22	2:V:268:ARG:HB2	1.81	0.63
2:V:166:MET:HE1	2:V:174:LEU:HD12	1.80	0.63
3:W:853:THR:CG2	3:W:873:ALA:HB3	2.28	0.63
3:W:1064:GLN:CB	3:W:1069:GLU:HA	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:663:GLN:HA	4:Y:663:GLN:HE21	1.61	0.63
4:Y:1104:LEU:HD22	4:Y:1104:LEU:H	1.64	0.63
1:B:165:THR:O	1:B:169:MET:HB2	1.99	0.63
1:B:536:THR:HB	1:B:570:LYS:HA	1.80	0.63
1:D:141:GLN:HA	1:D:141:GLN:NE2	2.11	0.63
1:D:173:ASP:HB2	1:H:606:THR:HG21	1.80	0.63
1:F:292:ARG:HG2	1:F:292:ARG:HH11	1.64	0.63
1:F:311:ASN:H	1:F:311:ASN:HD22	1.47	0.63
1:F:520:VAL:CG1	1:F:608:LEU:HD11	2.28	0.63
1:H:520:VAL:CG1	1:H:608:LEU:HD11	2.28	0.63
1:H:536:THR:HB	1:H:570:LYS:HA	1.80	0.63
1:I:28:SER:CA	1:J:216:PRO:HD2	2.27	0.63
1:J:491:ALA:CB	1:J:592:THR:HB	2.28	0.63
1:P:348:VAL:CG2	1:R:575:MET:HE2	2.29	0.63
1:R:554:GLN:O	1:R:556:SER:N	2.31	0.63
1:T:49:ARG:HH12	1:T:115:THR:CG2	2.10	0.63
4:Y:545:LEU:HD13	4:Y:569:LEU:CD1	2.29	0.63
1:B:311:ASN:H	1:B:311:ASN:HD22	1.47	0.63
1:D:154:ARG:HB3	1:D:154:ARG:HH11	1.63	0.63
1:D:418:ASN:HD21	1:F:337:ARG:NH2	1.93	0.63
1:D:548:LYS:HG3	1:F:645:TRP:CH2	2.32	0.63
1:F:536:THR:HB	1:F:570:LYS:HA	1.80	0.63
1:H:358:LEU:CD1	1:H:417:PHE:CE2	2.61	0.63
1:J:348:VAL:CG2	1:L:575:MET:HE2	2.29	0.63
1:J:355:GLY:HA3	1:L:298:PHE:CE2	2.33	0.63
1:L:606:THR:HG21	1:N:173:ASP:HB2	1.80	0.63
1:N:341:MET:CB	1:N:431:ILE:HD11	2.28	0.63
1:P:238:VAL:HG11	1:R:82:PHE:HZ	1.64	0.63
1:P:412:ARG:HA	1:R:455:SER:O	1.98	0.63
1:P:536:THR:HB	1:P:570:LYS:HA	1.80	0.63
1:R:330:GLN:HE22	1:R:332:GLY:HA2	1.63	0.63
1:R:510:VAL:O	1:R:510:VAL:HG12	1.97	0.63
2:U:22:ASP:CB	2:U:383:ARG:HD3	2.28	0.63
2:U:59:PRO:HG2	2:U:386:ILE:HD11	1.78	0.63
2:U:184:HIS:O	2:U:187:GLN:HB3	1.99	0.63
2:V:178:THR:HG21	4:Y:408:SER:HA	1.79	0.63
3:W:12:LYS:HB3	3:W:386:GLY:O	1.98	0.63
3:W:624:THR:C	3:W:626:ALA:H	2.05	0.63
4:X:599:ILE:CG2	4:X:639:LEU:HD23	2.29	0.63
4:X:1091:GLN:NE2	4:X:1091:GLN:HA	2.14	0.63
4:X:1179:VAL:HG13	4:X:1179:VAL:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:49:ARG:HH12	1:B:115:THR:CG2	2.10	0.63
1:D:348:VAL:CG2	1:F:575:MET:HE2	2.29	0.63
1:F:154:ARG:HB3	1:F:154:ARG:HH11	1.63	0.63
1:F:167:MET:HG2	1:F:215:TYR:CZ	2.33	0.63
1:H:167:MET:HG2	1:H:215:TYR:CZ	2.34	0.63
1:H:510:VAL:O	1:H:510:VAL:HG12	1.97	0.63
1:J:167:MET:HG2	1:J:215:TYR:CZ	2.33	0.63
1:J:199:LEU:O	1:J:207:PHE:CE2	2.52	0.63
1:L:238:VAL:HG11	1:N:82:PHE:HZ	1.64	0.63
1:L:341:MET:HE2	1:L:341:MET:CA	2.18	0.63
1:R:292:ARG:HG2	1:R:292:ARG:HH11	1.63	0.63
1:R:311:ASN:H	1:R:311:ASN:HD22	1.47	0.63
1:R:566:TRP:CZ2	1:T:195:PRO:HD3	2.32	0.63
1:T:520:VAL:CG1	1:T:608:LEU:HD11	2.28	0.63
3:W:57:THR:HG22	3:W:183:TYR:HD2	1.63	0.63
3:W:1038:ASN:ND2	3:W:1049:ALA:HB3	2.07	0.63
3:W:1096:PHE:CD2	3:W:1096:PHE:N	2.66	0.63
4:X:257:ARG:HB2	4:X:310:LYS:NZ	2.14	0.63
4:X:1091:GLN:HE22	4:X:1127:CYS:HB2	1.62	0.63
4:Y:560:LEU:HD21	4:Y:721:VAL:HG23	1.80	0.63
4:Y:993:TRP:NE1	4:Y:995:PRO:HG3	2.13	0.63
1:B:308:ALA:HB1	1:B:383:GLN:NE2	2.13	0.63
1:D:167:MET:HG2	1:D:215:TYR:CZ	2.33	0.63
1:F:98:ALA:HB2	1:F:206:GLU:CG	2.29	0.63
1:F:505:ASP:O	1:F:506:ALA:C	2.38	0.63
1:F:554:GLN:O	1:F:556:SER:N	2.31	0.63
1:H:330:GLN:HE22	1:H:332:GLY:HA2	1.63	0.63
1:H:554:GLN:O	1:H:556:SER:N	2.31	0.63
1:H:625:ARG:HG3	1:L:197:ASP:OD1	1.99	0.63
1:L:491:ALA:CB	1:L:592:THR:HB	2.28	0.63
1:L:510:VAL:O	1:L:510:VAL:HG12	1.97	0.63
1:L:635:GLN:HE21	1:L:635:GLN:HA	1.64	0.63
1:N:176:ALA:O	1:N:631:THR:HG21	1.99	0.63
1:N:520:VAL:CG1	1:N:608:LEU:HD11	2.28	0.63
1:N:554:GLN:O	1:N:556:SER:N	2.31	0.63
1:P:165:THR:O	1:P:169:MET:HB2	1.99	0.63
1:R:165:THR:O	1:R:169:MET:HB2	1.99	0.63
3:W:68:TRP:CZ2	3:W:70:PRO:HG3	2.34	0.63
3:W:454:PRO:HA	3:W:457:LEU:HD21	1.81	0.63
4:X:520:PRO:HD2	4:X:816:ALA:HB1	1.79	0.63
4:X:653:PRO:HD3	4:X:773:ARG:CG	2.28	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:875:GLN:OE1	4:X:875:GLN:HA	1.98	0.63
1:D:165:THR:O	1:D:169:MET:HB2	1.99	0.63
1:D:311:ASN:H	1:D:311:ASN:HD22	1.46	0.63
1:D:520:VAL:CG1	1:D:608:LEU:HD11	2.28	0.63
1:F:635:GLN:HE21	1:F:635:GLN:HA	1.64	0.63
1:H:363:ASN:ND2	1:H:366:LEU:HB2	2.13	0.63
1:J:98:ALA:HB2	1:J:206:GLU:CG	2.29	0.63
1:L:292:ARG:HH11	1:L:292:ARG:HG2	1.63	0.63
1:N:154:ARG:HB3	1:N:154:ARG:HH11	1.63	0.63
1:P:548:LYS:HG3	1:R:645:TRP:CH2	2.32	0.63
1:R:308:ALA:HB1	1:R:383:GLN:NE2	2.13	0.63
1:S:27:THR:O	1:S:27:THR:CG2	2.38	0.63
1:T:292:ARG:HH11	1:T:292:ARG:HG2	1.64	0.63
2:U:158:HIS:CE1	2:U:160:GLU:HG3	2.32	0.63
2:U:223:LEU:HD11	2:U:411:PHE:CZ	2.34	0.63
2:V:124:ASN:O	2:V:126:PRO:HD3	1.99	0.63
3:W:834:LEU:HD11	3:W:921:ILE:HD11	1.79	0.63
3:W:879:TYR:HA	3:W:884:PHE:CD2	2.34	0.63
3:W:1057:PRO:HG3	3:W:1089:TYR:CZ	2.34	0.63
4:X:439:THR:O	4:X:1200:THR:HG23	1.99	0.63
4:X:467:ALA:O	4:X:471:PRO:HD3	1.99	0.63
4:X:528:PHE:HZ	4:X:747:ILE:HD11	1.64	0.63
4:X:813:VAL:HG11	4:X:818:ILE:HD11	1.81	0.63
4:Y:262:ARG:HH11	4:Y:262:ARG:HG3	1.62	0.63
4:Y:298:LEU:HD12	4:Y:885:LEU:HD12	1.81	0.63
5:C:649:MYR:H31	1:D:191:LYS:CG	2.30	0.62
1:F:490:MET:HE3	1:F:597:LEU:HD13	1.80	0.62
1:H:292:ARG:HG2	1:H:292:ARG:HH11	1.63	0.62
1:J:82:PHE:HZ	1:N:238:VAL:HG11	1.64	0.62
1:J:363:ASN:ND2	1:J:366:LEU:HB2	2.13	0.62
1:J:490:MET:HE3	1:J:597:LEU:HD13	1.80	0.62
1:L:311:ASN:H	1:L:311:ASN:HD22	1.47	0.62
1:P:98:ALA:HB2	1:P:206:GLU:CG	2.29	0.62
1:T:99:THR:OG1	1:T:101:THR:HG22	1.97	0.62
1:T:137:ILE:HD13	1:T:142:ILE:HG13	1.79	0.62
3:W:31:LEU:CD1	3:W:96:VAL:HG13	2.28	0.62
3:W:910:LEU:HD12	3:W:968:ALA:HB2	1.80	0.62
3:W:970:PRO:O	3:W:974:GLN:HB2	1.98	0.62
3:W:983:ALA:O	3:W:1034:PRO:HD3	1.98	0.62
3:W:1052:ILE:HG21	3:W:1112:LEU:HD22	1.81	0.62
4:Y:432:ILE:CG2	4:Y:1204:LEU:HB3	2.27	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:330:GLN:HE22	1:D:332:GLY:HA2	1.63	0.62
1:F:412:ARG:HA	1:H:455:SER:O	1.98	0.62
1:H:199:LEU:O	1:H:207:PHE:CE2	2.52	0.62
1:J:68:PHE:HD1	1:J:140:VAL:HG11	1.65	0.62
1:L:412:ARG:HA	1:N:455:SER:O	1.98	0.62
1:L:536:THR:HB	1:L:570:LYS:HA	1.80	0.62
1:N:490:MET:HE3	1:N:597:LEU:HD13	1.80	0.62
1:P:606:THR:HG21	1:R:173:ASP:HB2	1.80	0.62
1:R:98:ALA:HB2	1:R:206:GLU:CG	2.29	0.62
2:V:80:ALA:HB2	2:V:120:LEU:HD23	1.79	0.62
4:X:201:CYS:HB2	4:X:399:ARG:NH2	2.15	0.62
4:X:483:VAL:HG23	4:X:483:VAL:O	1.98	0.62
4:X:519:GLN:H	4:X:520:PRO:CD	2.12	0.62
4:X:1004:PHE:CG	4:X:1004:PHE:O	2.52	0.62
4:Y:169:ILE:HG21	4:Y:843:PRO:HA	1.80	0.62
4:Y:195:ILE:HD12	4:Y:257:ARG:NE	2.14	0.62
4:Y:412:ASP:CG	4:Y:414:THR:HG22	2.24	0.62
1:B:176:ALA:O	1:B:631:THR:HG21	1.99	0.62
1:B:341:MET:CB	1:B:431:ILE:HD11	2.28	0.62
1:D:341:MET:HG3	1:D:437:ILE:HG12	1.82	0.62
1:D:412:ARG:HA	1:F:455:SER:O	1.98	0.62
1:D:575:MET:HE2	1:H:348:VAL:CG2	2.29	0.62
1:J:341:MET:HG3	1:J:437:ILE:HG12	1.82	0.62
1:J:358:LEU:CD1	1:J:417:PHE:CE2	2.62	0.62
1:J:575:MET:HE2	1:N:348:VAL:CG2	2.29	0.62
1:L:490:MET:HE3	1:L:597:LEU:HD13	1.80	0.62
1:R:68:PHE:HD1	1:R:140:VAL:HG11	1.64	0.62
1:T:341:MET:HE2	1:T:341:MET:CA	2.18	0.62
1:T:443:PHE:HB2	1:T:457:PRO:CB	2.24	0.62
2:V:175:MET:SD	4:Y:400:GLU:CG	2.83	0.62
3:W:814:GLY:HA3	3:W:991:LEU:HD13	1.80	0.62
4:X:567:LEU:HD11	4:X:705:ILE:HD13	1.81	0.62
4:X:637:PRO:HG2	4:X:638:LEU:H	1.64	0.62
4:X:712:VAL:HA	4:X:717:MET:HG2	1.81	0.62
4:X:1150:ASN:ND2	4:X:1153:SER:HB2	2.14	0.62
4:Y:601:ILE:CG2	4:Y:603:VAL:HG12	2.29	0.62
4:Y:769:VAL:HB	4:Y:780:ILE:CD1	2.30	0.62
4:Y:813:VAL:HG21	4:Y:818:ILE:HD11	1.81	0.62
1:C:26:MET:HG3	1:C:26:MET:O	1.97	0.62
1:F:294:TYR:HH	1:F:502:LEU:HA	1.62	0.62
1:H:165:THR:O	1:H:169:MET:HB2	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:277:ASP:O	1:H:278:THR:CG2	2.37	0.62
1:H:297:ALA:HB2	1:H:460:MET:CB	2.26	0.62
1:L:44:THR:HG22	1:L:45:GLY:N	2.14	0.62
1:L:176:ALA:O	1:L:631:THR:HG21	1.99	0.62
1:L:380:VAL:HG13	1:L:384:GLN:HG2	1.78	0.62
1:M:5:GLN:O	1:M:6:THR:HB	2.00	0.62
1:N:165:THR:O	1:N:169:MET:HB2	1.99	0.62
1:P:418:ASN:HD21	1:R:337:ARG:NH2	1.93	0.62
1:P:443:PHE:HB2	1:P:457:PRO:CB	2.24	0.62
1:R:536:THR:HB	1:R:570:LYS:HA	1.80	0.62
1:T:297:ALA:HB2	1:T:460:MET:CB	2.26	0.62
1:T:635:GLN:HE21	1:T:635:GLN:HA	1.64	0.62
3:W:47:LEU:HD11	3:W:327:ILE:CG2	2.29	0.62
3:W:710:ILE:HD11	3:W:798:THR:C	2.24	0.62
4:X:282:TYR:HD2	4:Y:830:ASN:ND2	1.94	0.62
4:X:350:LEU:HD23	4:X:357:ALA:HB1	1.81	0.62
4:X:454:GLN:HA	4:X:457:MET:HB3	1.82	0.62
4:X:488:LEU:HD11	4:X:821:ALA:HA	1.81	0.62
4:X:974:LEU:HD11	4:X:1168:ARG:HH22	1.63	0.62
4:Y:1023:ARG:HH21	4:Y:1030:GLN:HB3	1.64	0.62
1:B:98:ALA:HB2	1:B:206:GLU:CG	2.29	0.62
1:B:199:LEU:O	1:B:207:PHE:CE2	2.52	0.62
1:F:491:ALA:CB	1:F:592:THR:HB	2.28	0.62
1:G:5:GLN:O	1:G:6:THR:HB	2.00	0.62
1:H:341:MET:HG3	1:H:437:ILE:HG12	1.82	0.62
1:N:167:MET:HG2	1:N:215:TYR:CZ	2.34	0.62
1:N:292:ARG:HG2	1:N:292:ARG:HH11	1.64	0.62
1:P:55:VAL:HG11	3:W:348:GLN:HE22	1.62	0.62
1:P:355:GLY:HA3	1:R:298:PHE:CE2	2.34	0.62
5:S:649:MYR:C2	1:T:191:LYS:CE	2.78	0.62
1:T:98:ALA:HB2	1:T:206:GLU:CG	2.29	0.62
3:W:632:PHE:CD2	3:W:670:SER:HB3	2.35	0.62
1:D:199:LEU:O	1:D:207:PHE:CE2	2.52	0.62
1:D:356:THR:HG23	1:H:412:ARG:HH22	1.65	0.62
1:D:490:MET:HE3	1:D:597:LEU:HD13	1.80	0.62
1:D:491:ALA:CB	1:D:592:THR:HB	2.28	0.62
1:F:176:ALA:O	1:F:631:THR:HG21	1.99	0.62
1:F:199:LEU:O	1:F:207:PHE:CE2	2.52	0.62
1:F:330:GLN:NE2	1:F:332:GLY:CA	2.62	0.62
1:F:355:GLY:HA3	1:H:298:PHE:CE2	2.34	0.62
1:H:68:PHE:HD1	1:H:140:VAL:HG11	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:93:GLN:N	1:H:94:PRO:HD2	2.13	0.62
1:H:154:ARG:HB3	1:H:154:ARG:HH11	1.63	0.62
1:H:635:GLN:HE21	1:H:635:GLN:HA	1.64	0.62
1:I:9:ASN:HB2	1:J:209:ASN:ND2	2.15	0.62
1:J:176:ALA:O	1:J:631:THR:HG21	1.99	0.62
1:J:330:GLN:NE2	1:J:332:GLY:CA	2.62	0.62
1:L:199:LEU:O	1:L:207:PHE:CE2	2.52	0.62
1:L:273:LEU:C	1:L:273:LEU:HD23	2.25	0.62
1:P:199:LEU:O	1:P:207:PHE:CE2	2.52	0.62
1:P:292:ARG:HG2	1:P:292:ARG:HH11	1.64	0.62
1:R:44:THR:HG22	1:R:45:GLY:N	2.14	0.62
1:T:554:GLN:O	1:T:556:SER:N	2.31	0.62
3:W:79:LEU:HD23	3:W:79:LEU:H	1.64	0.62
3:W:577:LEU:HD23	3:W:577:LEU:C	2.24	0.62
3:W:874:TYR:HE1	3:W:876:GLN:HG3	1.63	0.62
4:X:350:LEU:N	4:X:350:LEU:HD12	2.14	0.62
4:X:590:ALA:HA	4:X:639:LEU:CD1	2.29	0.62
4:X:1156:THR:HG21	4:X:1161:ASN:CA	2.30	0.62
4:Y:401:THR:HG21	4:Y:960:ALA:HB2	1.82	0.62
4:Y:403:ILE:O	4:Y:403:ILE:HD13	2.00	0.62
5:A:649:MYR:H31	1:B:191:LYS:CG	2.30	0.62
1:B:154:ARG:HB3	1:B:154:ARG:HH11	1.63	0.62
1:E:5:GLN:O	1:E:6:THR:HB	1.99	0.62
1:F:348:VAL:CG2	1:H:575:MET:HE2	2.29	0.62
5:G:649:MYR:C2	1:H:191:LYS:CE	2.78	0.62
1:J:418:ASN:HD21	1:L:337:ARG:NH2	1.93	0.62
1:N:505:ASP:O	1:N:506:ALA:C	2.38	0.62
1:P:44:THR:HG22	1:P:45:GLY:N	2.14	0.62
1:P:154:ARG:HB3	1:P:154:ARG:HH11	1.63	0.62
1:R:330:GLN:NE2	1:R:332:GLY:CA	2.62	0.62
1:R:348:VAL:CG2	1:T:575:MET:HE2	2.29	0.62
1:R:635:GLN:NE2	1:R:635:GLN:HA	2.15	0.62
1:T:44:THR:HG22	1:T:45:GLY:N	2.14	0.62
1:T:273:LEU:C	1:T:273:LEU:HD23	2.25	0.62
1:T:330:GLN:NE2	1:T:332:GLY:CA	2.62	0.62
3:W:59:ILE:O	3:W:178:ILE:HD13	2.00	0.62
3:W:486:SER:O	3:W:490:ASP:HB2	2.00	0.62
4:X:192:GLU:HG3	4:X:192:GLU:O	1.99	0.62
4:X:898:ALA:HB3	4:X:929:PRO:HD2	1.81	0.62
4:X:978:ALA:HB3	4:X:1081:TYR:CE1	2.34	0.62
4:X:1095:ASP:CG	4:X:1095:ASP:O	2.42	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:266:PRO:HA	4:Y:976:ASN:ND2	2.13	0.62
1:C:9:ASN:HB2	1:D:209:ASN:ND2	2.15	0.62
1:D:82:PHE:HZ	1:H:238:VAL:HG11	1.64	0.62
1:D:635:GLN:HE21	1:D:635:GLN:HA	1.65	0.62
1:F:606:THR:HG21	1:H:173:ASP:HB2	1.80	0.62
1:H:98:ALA:HB2	1:H:206:GLU:CG	2.29	0.62
1:J:237:GLU:CG	1:L:142:ILE:HD13	2.25	0.62
1:J:606:THR:HG21	1:L:173:ASP:HB2	1.80	0.62
1:L:297:ALA:HB2	1:L:460:MET:CB	2.26	0.62
1:L:330:GLN:HE22	1:L:332:GLY:HA2	1.63	0.62
1:N:635:GLN:NE2	1:N:635:GLN:HA	2.15	0.62
1:R:49:ARG:HH12	1:R:115:THR:CG2	2.10	0.62
1:R:341:MET:HG3	1:R:437:ILE:HG12	1.82	0.62
1:R:412:ARG:HA	1:T:455:SER:O	1.98	0.62
1:T:199:LEU:O	1:T:207:PHE:CE2	2.52	0.62
1:T:311:ASN:H	1:T:311:ASN:HD22	1.47	0.62
2:U:224:ASN:ND2	2:U:226:SER:H	1.98	0.62
2:V:239:PRO:HA	2:V:243:PRO:HB3	1.81	0.62
3:W:131:ILE:O	3:W:131:ILE:HG12	1.99	0.62
3:W:739:VAL:HG12	3:W:742:SER:CB	2.30	0.62
4:X:453:LEU:HA	4:X:950:VAL:HG21	1.80	0.62
4:X:575:MET:HE1	4:X:747:ILE:HG12	1.81	0.62
4:Y:440:ILE:HG13	4:Y:1202:PRO:CG	2.29	0.62
1:B:330:GLN:NE2	1:B:332:GLY:CA	2.62	0.62
1:B:380:VAL:HG13	1:B:384:GLN:HG2	1.78	0.62
1:D:336:THR:HG22	1:D:456:ASN:HD21	1.65	0.62
1:E:9:ASN:HB2	1:F:209:ASN:ND2	2.15	0.62
1:H:44:THR:HG22	1:H:45:GLY:N	2.14	0.62
1:H:330:GLN:NE2	1:H:332:GLY:CA	2.62	0.62
1:H:358:LEU:HD13	1:H:417:PHE:CZ	2.35	0.62
1:H:635:GLN:NE2	1:H:635:GLN:HA	2.15	0.62
1:J:58:ILE:O	1:J:59:ASP:HB2	1.99	0.62
1:J:455:SER:O	1:N:412:ARG:HA	1.98	0.62
1:L:98:ALA:HB2	1:L:206:GLU:CG	2.29	0.62
1:L:330:GLN:NE2	1:L:332:GLY:CA	2.62	0.62
1:N:330:GLN:NE2	1:N:332:GLY:CA	2.62	0.62
1:P:68:PHE:HD1	1:P:140:VAL:HG11	1.65	0.62
1:P:330:GLN:NE2	1:P:332:GLY:CA	2.62	0.62
1:P:330:GLN:HE22	1:P:332:GLY:HA2	1.63	0.62
1:P:341:MET:HG3	1:P:437:ILE:HG12	1.82	0.62
1:T:635:GLN:NE2	1:T:635:GLN:HA	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:93:ARG:HH11	2:U:93:ARG:CB	2.11	0.62
2:U:318:ASN:H	2:U:322:VAL:HG11	1.64	0.62
2:V:276:HIS:HB2	2:V:370:LEU:HD21	1.80	0.62
3:W:426:LEU:HD21	3:W:797:PHE:CD2	2.35	0.62
4:X:593:LEU:HG	4:X:593:LEU:O	1.99	0.62
4:Y:537:TYR:CE1	4:Y:766:PRO:HA	2.34	0.62
4:Y:586:PHE:HA	4:Y:642:PHE:CE2	2.34	0.62
1:A:5:GLN:O	1:A:6:THR:HB	1.99	0.62
1:D:44:THR:HG22	1:D:45:GLY:N	2.14	0.62
1:D:330:GLN:NE2	1:D:332:GLY:CA	2.62	0.62
1:D:355:GLY:HA3	1:F:298:PHE:CE2	2.33	0.62
1:F:273:LEU:HD23	1:F:273:LEU:C	2.25	0.62
1:F:341:MET:HG3	1:F:437:ILE:HG12	1.81	0.62
1:F:549:LEU:HD12	1:F:550:SER:N	2.15	0.62
1:H:176:ALA:O	1:H:631:THR:HG21	1.99	0.62
1:J:44:THR:HG22	1:J:45:GLY:N	2.14	0.62
1:L:355:GLY:HA3	1:N:298:PHE:CE2	2.34	0.62
1:L:427:GLU:OE1	1:N:571:ARG:NH2	2.27	0.62
1:L:635:GLN:NE2	1:L:635:GLN:HA	2.15	0.62
5:M:649:MYR:C2	1:N:191:LYS:HE2	2.27	0.62
1:N:44:THR:HG22	1:N:45:GLY:N	2.14	0.62
1:N:57:THR:HG22	1:N:58:ILE:N	2.15	0.62
1:N:336:THR:HG22	1:N:456:ASN:HD21	1.65	0.62
1:P:341:MET:CB	1:P:431:ILE:HD11	2.28	0.62
1:T:167:MET:HG2	1:T:215:TYR:CZ	2.33	0.62
3:W:95:PHE:HB2	3:W:125:PHE:CE1	2.35	0.62
3:W:1134:VAL:CG2	3:W:1219:ILE:HD11	2.30	0.62
1:B:57:THR:HG22	1:B:58:ILE:N	2.15	0.61
1:B:635:GLN:HE21	1:B:635:GLN:HA	1.64	0.61
1:D:606:THR:HG21	1:F:173:ASP:HB2	1.80	0.61
1:D:635:GLN:NE2	1:D:635:GLN:HA	2.15	0.61
1:F:418:ASN:HD21	1:H:337:ARG:NH2	1.93	0.61
1:J:298:PHE:CE2	1:N:355:GLY:HA3	2.34	0.61
1:J:356:THR:HG23	1:N:412:ARG:HH22	1.65	0.61
1:L:341:MET:HB2	1:L:431:ILE:CD1	2.26	0.61
1:N:199:LEU:O	1:N:207:PHE:CE2	2.52	0.61
1:N:273:LEU:HD23	1:N:273:LEU:C	2.25	0.61
1:P:308:ALA:HB1	1:P:383:GLN:NE2	2.13	0.61
1:P:635:GLN:HE21	1:P:635:GLN:HA	1.64	0.61
1:R:199:LEU:O	1:R:207:PHE:CE2	2.52	0.61
1:T:176:ALA:O	1:T:631:THR:HG21	1.99	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:662:LEU:HD22	4:X:662:LEU:H	1.65	0.61
4:Y:631:ILE:O	4:Y:640:ARG:HD2	2.00	0.61
4:Y:722:ASN:ND2	4:Y:724:LEU:HB3	2.15	0.61
4:Y:731:GLY:O	4:Y:734:THR:HG22	2.00	0.61
4:Y:1012:ARG:HH12	4:Y:1043:GLY:HA3	1.65	0.61
1:B:329:VAL:HG13	1:B:442:THR:HG21	1.82	0.61
5:C:649:MYR:H71	1:D:200:CYS:SG	2.40	0.61
1:D:536:THR:HB	1:D:570:LYS:HA	1.80	0.61
1:F:297:ALA:HB2	1:F:460:MET:CB	2.26	0.61
1:J:87:PHE:HD1	1:L:121:ALA:HB2	1.61	0.61
1:J:329:VAL:HG13	1:J:442:THR:HG21	1.82	0.61
1:J:358:LEU:HD13	1:J:417:PHE:CZ	2.35	0.61
1:L:329:VAL:HG13	1:L:442:THR:HG21	1.82	0.61
1:L:549:LEU:HD12	1:L:550:SER:N	2.15	0.61
1:N:329:VAL:HG13	1:N:442:THR:HG21	1.82	0.61
1:P:49:ARG:HH12	1:P:115:THR:CG2	2.10	0.61
1:P:171:THR:CG2	1:T:602:SER:OG	2.48	0.61
1:T:491:ALA:CB	1:T:592:THR:HB	2.28	0.61
2:U:263:GLN:HE21	2:U:263:GLN:HA	1.64	0.61
3:W:81:TYR:O	3:W:85:THR:HG23	2.00	0.61
3:W:424:SER:HB3	3:W:425:PRO:CD	2.28	0.61
4:X:218:GLU:C	4:X:219:LEU:HD23	2.25	0.61
4:Y:428:LEU:HD21	4:Y:1208:MET:HE3	1.81	0.61
1:B:549:LEU:HD12	1:B:550:SER:N	2.15	0.61
1:I:5:GLN:O	1:I:6:THR:HB	1.99	0.61
1:K:9:ASN:HB2	1:L:209:ASN:ND2	2.15	0.61
1:N:98:ALA:HB2	1:N:206:GLU:CG	2.29	0.61
1:N:341:MET:O	1:N:344:MET:HB2	2.01	0.61
1:P:82:PHE:HZ	1:T:238:VAL:HG11	1.64	0.61
1:P:298:PHE:CE2	1:T:355:GLY:HA3	2.33	0.61
1:P:329:VAL:HG13	1:P:442:THR:HG21	1.82	0.61
1:Q:9:ASN:HB2	1:R:209:ASN:ND2	2.15	0.61
1:R:273:LEU:HD23	1:R:273:LEU:C	2.25	0.61
1:R:602:SER:OG	1:T:171:THR:CG2	2.48	0.61
1:R:635:GLN:HE21	1:R:635:GLN:HA	1.64	0.61
1:T:330:GLN:HE22	1:T:332:GLY:HA2	1.63	0.61
2:U:140:GLN:O	2:U:144:ILE:HG12	2.00	0.61
3:W:592:MET:H	3:W:593:PRO:CD	2.11	0.61
3:W:930:TRP:C	3:W:931:LEU:HD23	2.26	0.61
4:Y:722:ASN:HB3	4:Y:725:THR:HG23	1.81	0.61
4:Y:778:ASP:CA	4:Y:940:GLN:HB3	2.27	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:990:ASN:HB2	4:Y:1131:ARG:CA	2.30	0.61
4:Y:1034:ASP:C	4:Y:1036:ASN:H	2.08	0.61
1:B:491:ALA:CB	1:B:592:THR:HB	2.28	0.61
1:D:237:GLU:HG3	1:F:142:ILE:HD13	1.82	0.61
1:F:68:PHE:HD1	1:F:140:VAL:HG11	1.65	0.61
1:F:139:THR:C	1:F:142:ILE:HG22	2.24	0.61
1:F:238:VAL:CG2	1:H:78:MET:HE1	2.07	0.61
1:F:635:GLN:NE2	1:F:635:GLN:HA	2.15	0.61
5:I:649:MYR:H31	1:J:191:LYS:CG	2.30	0.61
1:J:165:THR:O	1:J:169:MET:HB2	1.99	0.61
1:J:238:VAL:HG11	1:L:82:PHE:HZ	1.64	0.61
1:J:273:LEU:HD23	1:J:273:LEU:C	2.25	0.61
1:J:311:ASN:H	1:J:311:ASN:HD22	1.47	0.61
1:N:311:ASN:H	1:N:311:ASN:HD22	1.46	0.61
1:N:443:PHE:HB2	1:N:457:PRO:CB	2.24	0.61
1:P:215:TYR:C	1:P:217:ALA:H	2.09	0.61
1:P:336:THR:HG22	1:P:456:ASN:HD21	1.65	0.61
1:P:549:LEU:HD12	1:P:550:SER:N	2.15	0.61
1:R:355:GLY:HA3	1:T:298:PHE:CE2	2.33	0.61
2:U:91:THR:HG21	2:U:109:PRO:HG2	1.82	0.61
2:V:163:VAL:O	2:V:258:PRO:HB2	1.99	0.61
3:W:204:VAL:HG13	3:W:238:HIS:HB2	1.81	0.61
3:W:217:LEU:HA	3:W:220:LEU:CD2	2.30	0.61
3:W:489:LYS:HG3	3:W:649:ILE:CG1	2.30	0.61
4:X:915:LEU:N	4:X:915:LEU:HD23	2.16	0.61
4:Y:317:PHE:CZ	4:Y:385:VAL:HG21	2.35	0.61
1:B:215:TYR:C	1:B:217:ALA:H	2.09	0.61
1:B:372:ALA:HB1	1:B:399:ALA:HA	1.83	0.61
1:D:98:ALA:HB2	1:D:206:GLU:CG	2.29	0.61
1:D:176:ALA:O	1:D:631:THR:HG21	1.99	0.61
1:J:171:THR:CG2	1:N:602:SER:OG	2.48	0.61
1:J:602:SER:OG	1:L:171:THR:CG2	2.48	0.61
1:L:341:MET:O	1:L:344:MET:HB2	2.01	0.61
1:N:491:ALA:CB	1:N:592:THR:HB	2.28	0.61
1:O:9:ASN:HB2	1:P:209:ASN:ND2	2.15	0.61
5:O:649:MYR:H31	1:P:191:LYS:CG	2.30	0.61
1:P:273:LEU:HD23	1:P:273:LEU:C	2.25	0.61
1:T:329:VAL:HG13	1:T:442:THR:HG21	1.82	0.61
1:T:549:LEU:HD12	1:T:550:SER:N	2.15	0.61
2:U:339:LEU:HG	2:U:343:GLN:HE21	1.66	0.61
2:V:268:ARG:HH12	2:V:305:LEU:HA	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:695:ILE:HD11	3:W:1002:ILE:CG2	2.31	0.61
4:X:416:ILE:CG2	4:X:445:PHE:HE2	2.12	0.61
4:X:518:LEU:HG	4:X:820:VAL:CG2	2.31	0.61
4:X:1078:LEU:HD23	4:X:1078:LEU:N	2.08	0.61
4:Y:210:ILE:HB	4:Y:239:ALA:CB	2.30	0.61
4:Y:354:THR:O	4:Y:356:ASN:N	2.34	0.61
4:Y:982:LEU:HD23	4:Y:982:LEU:C	2.25	0.61
4:Y:1170:PRO:HD2	4:Y:1189:THR:CG2	2.30	0.61
1:A:9:ASN:HB2	1:B:209:ASN:ND2	2.15	0.61
1:B:44:THR:HG22	1:B:45:GLY:N	2.14	0.61
1:D:50:PRO:N	1:D:61:LEU:HD23	2.16	0.61
1:D:549:LEU:HD12	1:D:550:SER:N	2.15	0.61
1:F:57:THR:HG22	1:F:58:ILE:N	2.15	0.61
1:F:602:SER:OG	1:H:171:THR:CG2	2.48	0.61
1:J:635:GLN:HE21	1:J:635:GLN:HA	1.64	0.61
1:L:336:THR:HG22	1:L:456:ASN:HD21	1.65	0.61
5:M:649:MYR:C2	1:N:191:LYS:CE	2.78	0.61
1:N:549:LEU:HD12	1:N:550:SER:N	2.15	0.61
1:O:37:LYS:NZ	1:R:264:SER:OG	2.23	0.61
1:P:635:GLN:NE2	1:P:635:GLN:HA	2.15	0.61
1:R:57:THR:HG22	1:R:58:ILE:N	2.15	0.61
1:R:372:ALA:HB1	1:R:399:ALA:HA	1.83	0.61
1:T:215:TYR:C	1:T:217:ALA:H	2.09	0.61
1:T:341:MET:O	1:T:344:MET:HB2	2.01	0.61
2:U:175:MET:HB3	4:X:436:LEU:HA	1.82	0.61
2:V:250:TRP:CE3	4:Y:956:HIS:CE1	2.87	0.61
3:W:838:PRO:HB3	3:W:858:ARG:CZ	2.30	0.61
4:X:595:GLN:HB3	4:X:596:PRO:HD3	1.82	0.61
4:X:1032:ILE:HA	4:X:1038:PRO:HA	1.82	0.61
4:Y:367:ARG:HG3	4:Y:367:ARG:HH11	1.66	0.61
4:Y:777:ASN:HB2	4:Y:942:GLY:CA	2.30	0.61
4:Y:941:TYR:C	4:Y:943:GLY:H	2.09	0.61
1:B:330:GLN:HE22	1:B:332:GLY:HA2	1.63	0.61
1:C:5:GLN:O	1:C:6:THR:HB	1.99	0.61
1:D:215:TYR:C	1:D:217:ALA:H	2.09	0.61
1:D:238:VAL:HG11	1:F:82:PHE:HZ	1.64	0.61
1:F:358:LEU:HD13	1:F:417:PHE:CZ	2.35	0.61
1:H:372:ALA:HB1	1:H:399:ALA:HA	1.83	0.61
1:J:57:THR:HG22	1:J:58:ILE:H	1.66	0.61
1:J:536:THR:HB	1:J:570:LYS:HA	1.80	0.61
1:J:549:LEU:HD12	1:J:550:SER:N	2.15	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:456:ASN:C	1:L:456:ASN:HD22	2.09	0.61
1:P:356:THR:HG23	1:T:412:ARG:HH22	1.65	0.61
1:P:380:VAL:HG13	1:P:384:GLN:HG2	1.78	0.61
1:R:540:VAL:HG23	1:R:569:ALA:HB3	1.83	0.61
2:U:52:PRO:HB3	4:X:963:GLN:HE22	1.66	0.61
2:U:215:TRP:CH2	2:U:279:VAL:HG22	2.36	0.61
3:W:149:THR:HA	3:W:152:THR:CG2	2.30	0.61
4:X:957:ILE:C	4:X:959:ARG:N	2.58	0.61
4:X:1122:PRO:HB3	4:X:1159:GLY:HA3	1.82	0.61
4:Y:777:ASN:O	4:Y:778:ASP:HB3	1.99	0.61
4:Y:840:ALA:O	4:Y:843:PRO:HD2	2.00	0.61
1:D:341:MET:O	1:D:344:MET:HB2	2.01	0.61
1:F:329:VAL:HG13	1:F:442:THR:HG21	1.82	0.61
1:H:215:TYR:C	1:H:217:ALA:H	2.09	0.61
1:J:292:ARG:HG2	1:J:292:ARG:HH11	1.64	0.61
1:L:358:LEU:HD13	1:L:417:PHE:CZ	2.35	0.61
1:Q:5:GLN:O	1:Q:6:THR:HB	2.00	0.61
1:R:336:THR:HG22	1:R:456:ASN:HD21	1.65	0.61
1:T:358:LEU:HD13	1:T:417:PHE:CZ	2.35	0.61
3:W:639:ALA:CB	3:W:659:PHE:HB3	2.31	0.61
3:W:732:LEU:HD12	3:W:780:LEU:HD13	1.83	0.61
3:W:998:LEU:C	3:W:1000:TYR:H	2.08	0.61
4:X:827:THR:CG2	4:X:831:LEU:HD22	2.30	0.61
4:Y:244:VAL:HG21	4:Y:265:PRO:CA	2.30	0.61
4:Y:332:ALA:O	4:Y:333:PHE:HB2	1.99	0.61
1:F:341:MET:O	1:F:344:MET:HB2	2.01	0.61
1:N:456:ASN:C	1:N:456:ASN:HD22	2.09	0.61
1:P:337:ARG:NH2	1:T:418:ASN:HD21	1.93	0.61
1:R:154:ARG:HB3	1:R:154:ARG:HH11	1.63	0.61
1:R:412:ARG:HH22	1:T:356:THR:HG23	1.65	0.61
2:U:318:ASN:N	2:U:322:VAL:HG11	2.16	0.61
3:W:266:VAL:CG2	3:W:311:ALA:HB2	2.30	0.61
3:W:518:TYR:CE2	3:W:531:PRO:HG2	2.35	0.61
3:W:823:THR:CG2	3:W:850:LEU:HD13	2.30	0.61
4:X:603:VAL:CG1	4:Y:715:VAL:HG11	2.31	0.61
4:X:628:PRO:HG2	4:X:647:ARG:HD3	1.83	0.61
4:Y:387:CYS:SG	4:Y:389:GLU:HG2	2.40	0.61
4:Y:709:ILE:HA	4:Y:733:MET:CE	2.30	0.61
1:B:273:LEU:HD23	1:B:273:LEU:C	2.25	0.61
1:D:297:ALA:HB2	1:D:460:MET:CB	2.26	0.61
1:D:431:ILE:HD13	1:D:437:ILE:HG23	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:456:ASN:C	1:D:456:ASN:HD22	2.09	0.61
1:H:273:LEU:HD23	1:H:273:LEU:C	2.25	0.61
1:J:372:ALA:HB1	1:J:399:ALA:HA	1.83	0.61
1:L:137:ILE:HG12	1:L:142:ILE:HG22	1.83	0.61
1:L:602:SER:OG	1:N:171:THR:CG2	2.48	0.61
1:P:48:TRP:CZ2	1:P:63:ILE:HD11	2.36	0.61
1:P:418:ASN:CG	1:R:337:ARG:HH21	2.09	0.61
1:P:540:VAL:HG23	1:P:569:ALA:HB3	1.83	0.61
1:T:372:ALA:HB1	1:T:399:ALA:HA	1.83	0.61
1:T:380:VAL:HG13	1:T:384:GLN:HG2	1.78	0.61
2:U:33:TYR:CD2	4:X:879:PHE:HD2	2.19	0.61
2:U:339:LEU:HG	2:U:343:GLN:NE2	2.14	0.61
2:U:348:THR:HB	2:U:351:GLN:HG3	1.81	0.61
3:W:12:LYS:HD2	3:W:385:THR:O	2.01	0.61
4:X:437:ARG:HH22	4:X:1207:ILE:CA	2.05	0.61
4:Y:272:HIS:HA	4:Y:275:LYS:HE2	1.83	0.61
4:Y:355:LYS:HZ3	4:Y:1156:THR:HG21	1.63	0.61
1:B:341:MET:O	1:B:344:MET:HB2	2.01	0.60
1:B:456:ASN:HD22	1:B:456:ASN:C	2.09	0.60
1:F:274:ILE:HD11	1:F:514:LEU:HD21	1.73	0.60
1:H:154:ARG:HH11	1:H:154:ARG:CB	2.14	0.60
1:H:336:THR:HG22	1:H:456:ASN:HD21	1.65	0.60
1:H:341:MET:O	1:H:344:MET:HB2	2.01	0.60
1:J:337:ARG:NH2	1:N:418:ASN:HD21	1.93	0.60
1:L:48:TRP:CZ2	1:L:63:ILE:HD11	2.36	0.60
1:N:341:MET:HG3	1:N:437:ILE:HG12	1.82	0.60
1:R:178:SER:O	1:R:179:ALA:HB2	2.01	0.60
1:R:341:MET:O	1:R:344:MET:HB2	2.01	0.60
1:T:336:THR:HG22	1:T:456:ASN:HD21	1.65	0.60
2:V:176:ALA:HA	4:Y:407:ARG:HG3	1.82	0.60
3:W:193:THR:HG23	3:W:195:GLY:H	1.66	0.60
3:W:810:LEU:CD2	3:W:1001:ILE:HD13	2.31	0.60
3:W:938:TYR:OH	3:W:1106:GLY:HA2	2.00	0.60
3:W:988:TRP:CZ3	3:W:1026:LEU:HB2	2.36	0.60
3:W:1089:TYR:HA	3:W:1096:PHE:HA	1.83	0.60
3:W:1177:ASN:CB	3:W:1282:THR:HB	2.28	0.60
4:X:466:THR:HA	4:X:809:ALA:CB	2.31	0.60
4:X:534:SER:OG	4:X:543:THR:HG23	2.01	0.60
4:Y:195:ILE:HD12	4:Y:257:ARG:CZ	2.31	0.60
4:Y:1027:LEU:H	4:Y:1027:LEU:CD1	2.07	0.60
1:B:635:GLN:NE2	1:B:635:GLN:HA	2.15	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:178:SER:O	1:D:179:ALA:HB2	2.01	0.60
1:D:341:MET:CB	1:D:431:ILE:HD11	2.28	0.60
1:I:37:LYS:NZ	1:L:264:SER:OG	2.23	0.60
1:J:341:MET:O	1:J:344:MET:HB2	2.01	0.60
1:K:5:GLN:O	1:K:6:THR:HB	1.99	0.60
1:O:5:GLN:O	1:O:6:THR:HB	2.00	0.60
1:P:372:ALA:HB1	1:P:399:ALA:HA	1.83	0.60
1:P:412:ARG:HH22	1:R:356:THR:HG23	1.65	0.60
1:R:238:VAL:HG11	1:T:82:PHE:HZ	1.64	0.60
1:R:358:LEU:CD1	1:R:417:PHE:CE2	2.62	0.60
3:W:885:TRP:HA	3:W:888:ILE:HD11	1.83	0.60
3:W:959:ASN:HB3	3:W:962:GLU:OE2	2.00	0.60
4:Y:490:PRO:HD3	4:Y:525:TYR:OH	2.00	0.60
4:Y:798:VAL:HG12	4:Y:799:ASP:N	2.17	0.60
4:Y:985:VAL:HG22	4:Y:1137:PHE:HE1	1.66	0.60
4:Y:1043:GLY:O	4:Y:1072:THR:HA	2.00	0.60
1:B:154:ARG:HH11	1:B:154:ARG:CB	2.15	0.60
1:B:336:THR:HG22	1:B:456:ASN:HD21	1.65	0.60
1:D:47:LEU:HD21	1:D:64:VAL:HG11	1.84	0.60
1:D:273:LEU:C	1:D:273:LEU:HD23	2.25	0.60
1:F:44:THR:HG22	1:F:45:GLY:N	2.14	0.60
1:F:418:ASN:CG	1:H:337:ARG:HH21	2.09	0.60
1:H:625:ARG:CG	1:L:197:ASP:OD1	2.49	0.60
1:J:154:ARG:HH11	1:J:154:ARG:CB	2.15	0.60
1:P:341:MET:O	1:P:344:MET:HB2	2.01	0.60
1:R:215:TYR:C	1:R:217:ALA:H	2.09	0.60
1:R:358:LEU:HD13	1:R:417:PHE:CZ	2.35	0.60
1:R:549:LEU:HD12	1:R:550:SER:N	2.15	0.60
1:S:5:GLN:O	1:S:6:THR:HB	2.00	0.60
2:U:143:HIS:NE2	2:U:291:THR:HB	2.17	0.60
2:U:241:LEU:O	4:X:1179:VAL:HG13	2.00	0.60
2:U:251:ASN:CG	2:U:252:ASP:N	2.59	0.60
3:W:398:LEU:CD2	3:W:792:THR:HG21	2.31	0.60
3:W:746:PHE:CZ	3:W:748:ARG:HG3	2.36	0.60
4:X:795:ASP:OD2	4:Y:737:ARG:NH1	2.25	0.60
4:Y:78:ILE:HD12	4:Y:78:ILE:N	2.16	0.60
4:Y:385:VAL:CG2	4:Y:386:GLU:H	2.15	0.60
4:Y:832:ILE:HD12	4:Y:835:HIS:CD2	2.35	0.60
4:Y:858:VAL:O	4:Y:862:GLU:HG2	2.01	0.60
1:B:68:PHE:HD1	1:B:140:VAL:HG11	1.65	0.60
1:B:341:MET:HG3	1:B:437:ILE:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:358:LEU:CG	1:D:417:PHE:CE2	2.79	0.60
1:D:369:SER:OG	1:D:443:PHE:HD2	1.85	0.60
1:D:370:VAL:HG23	1:D:370:VAL:O	2.02	0.60
1:F:48:TRP:CZ2	1:F:63:ILE:HD11	2.36	0.60
1:H:48:TRP:CZ2	1:H:63:ILE:HD11	2.36	0.60
1:H:431:ILE:HD13	1:H:437:ILE:HG23	1.82	0.60
1:J:215:TYR:C	1:J:217:ALA:H	2.09	0.60
1:L:154:ARG:HB3	1:L:154:ARG:HH11	1.63	0.60
1:L:341:MET:CB	1:L:431:ILE:HD11	2.28	0.60
1:N:48:TRP:CZ2	1:N:63:ILE:HD11	2.36	0.60
1:N:369:SER:OG	1:N:443:PHE:HD2	1.85	0.60
1:N:370:VAL:HG23	1:N:370:VAL:O	2.02	0.60
1:N:635:GLN:HE21	1:N:635:GLN:HA	1.64	0.60
1:P:602:SER:OG	1:R:171:THR:CG2	2.48	0.60
1:T:540:VAL:HG23	1:T:569:ALA:HB3	1.83	0.60
2:U:151:SER:HB2	2:U:156:ILE:HG13	1.82	0.60
3:W:398:LEU:H	3:W:398:LEU:CD2	2.13	0.60
3:W:398:LEU:HD11	3:W:788:GLN:HE22	1.64	0.60
4:X:560:LEU:HD11	4:X:729:MET:SD	2.41	0.60
4:Y:385:VAL:HG13	4:Y:1196:ARG:HB2	1.84	0.60
4:Y:437:ARG:HB2	4:Y:439:THR:O	2.02	0.60
4:Y:680:PRO:O	4:Y:748:GLN:HG2	2.00	0.60
1:B:297:ALA:HB2	1:B:460:MET:CB	2.26	0.60
1:D:602:SER:OG	1:F:171:THR:CG2	2.48	0.60
1:F:154:ARG:HH11	1:F:154:ARG:CB	2.15	0.60
1:L:57:THR:HG22	1:L:58:ILE:N	2.15	0.60
5:O:649:MYR:H71	1:P:200:CYS:SG	2.40	0.60
1:R:48:TRP:CZ2	1:R:63:ILE:HD11	2.36	0.60
2:V:291:THR:HG21	2:V:296:LEU:HD23	1.83	0.60
3:W:113:THR:HB	3:W:118:LEU:HD12	1.83	0.60
3:W:918:ILE:N	3:W:919:PRO:HD2	2.16	0.60
4:X:1046:VAL:O	4:X:1048:PRO:HD3	2.01	0.60
4:Y:364:ILE:HD12	4:Y:367:ARG:NH1	2.15	0.60
1:F:87:PHE:HD1	1:H:121:ALA:HB2	1.61	0.60
1:H:329:VAL:HG13	1:H:442:THR:HG21	1.82	0.60
1:H:549:LEU:HD12	1:H:550:SER:N	2.15	0.60
1:J:370:VAL:O	1:J:370:VAL:HG23	2.02	0.60
1:J:456:ASN:HD22	1:J:456:ASN:C	2.09	0.60
1:L:341:MET:HG3	1:L:437:ILE:HG12	1.82	0.60
1:N:215:TYR:C	1:N:217:ALA:H	2.09	0.60
1:P:167:MET:HA	1:P:167:MET:CE	2.31	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:337:ARG:HH21	1:T:418:ASN:CG	2.09	0.60
1:T:68:PHE:HD1	1:T:140:VAL:HG11	1.65	0.60
1:T:456:ASN:C	1:T:456:ASN:HD22	2.09	0.60
2:U:224:ASN:HD22	2:U:346:LEU:HD11	1.66	0.60
3:W:15:THR:HG22	3:W:273:ASN:OD1	2.01	0.60
3:W:151:ILE:HG13	3:W:152:THR:N	2.16	0.60
3:W:1093:ASN:O	3:W:1094:GLN:HB2	2.00	0.60
4:X:480:LEU:HD22	4:X:758:LEU:HD13	1.84	0.60
4:X:862:GLU:OE1	4:X:955:SER:HB2	2.00	0.60
4:Y:544:VAL:HG12	4:Y:578:ASP:OD2	2.01	0.60
1:F:167:MET:HA	1:F:167:MET:CE	2.31	0.60
1:F:540:VAL:HG23	1:F:569:ALA:HB3	1.83	0.60
1:H:370:VAL:HG23	1:H:370:VAL:O	2.02	0.60
1:H:456:ASN:C	1:H:456:ASN:HD22	2.09	0.60
1:J:48:TRP:CZ2	1:J:63:ILE:HD11	2.36	0.60
1:J:53:THR:O	1:J:54:SER:HB3	2.01	0.60
1:J:58:ILE:HG13	1:J:127:LEU:HD23	1.84	0.60
1:J:635:GLN:NE2	1:J:635:GLN:HA	2.15	0.60
1:L:154:ARG:HH11	1:L:154:ARG:CB	2.14	0.60
1:L:370:VAL:HG23	1:L:370:VAL:O	2.02	0.60
1:P:189:PHE:CZ	1:P:193:ILE:HD11	2.37	0.60
1:R:329:VAL:HG13	1:R:442:THR:HG21	1.82	0.60
1:T:46:LYS:HA	1:T:72:SER:HA	1.84	0.60
1:T:341:MET:HG3	1:T:437:ILE:HG12	1.82	0.60
2:U:26:LEU:HA	2:U:71:LEU:CD1	2.28	0.60
2:U:40:ARG:HH22	2:U:69:ASN:ND2	1.98	0.60
2:U:225:ARG:HH11	2:U:225:ARG:HG3	1.67	0.60
3:W:521:ALA:HB1	3:W:531:PRO:HD3	1.84	0.60
4:X:301:LEU:HD11	4:X:968:PHE:HB2	1.84	0.60
4:X:590:ALA:CA	4:X:639:LEU:HD11	2.31	0.60
4:X:925:LEU:HD22	4:X:926:TYR:CD1	2.36	0.60
4:X:1130:ALA:CB	4:Y:104:GLN:CB	2.73	0.60
4:Y:392:ASP:HA	4:Y:1189:THR:O	2.02	0.60
4:Y:979:ARG:HG2	4:Y:979:ARG:HH11	1.67	0.60
4:Y:1082:VAL:O	4:Y:1114:PRO:HA	2.02	0.60
5:A:649:MYR:C2	1:B:191:LYS:CE	2.79	0.60
1:D:329:VAL:HG13	1:D:442:THR:HG21	1.82	0.60
1:D:337:ARG:HH21	1:H:418:ASN:CG	2.09	0.60
1:J:418:ASN:CG	1:L:337:ARG:HH21	2.09	0.60
1:J:540:VAL:HG23	1:J:569:ALA:HB3	1.83	0.60
1:N:540:VAL:HG23	1:N:569:ALA:HB3	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:370:VAL:O	1:R:370:VAL:HG23	2.02	0.60
2:U:12:ASN:HD22	2:U:13:PHE:N	2.00	0.60
4:X:377:ILE:HB	4:X:380:GLU:HB3	1.83	0.60
4:X:459:LEU:O	4:X:462:ILE:HG22	2.02	0.60
1:B:48:TRP:CZ2	1:B:63:ILE:HD11	2.36	0.60
1:B:189:PHE:CZ	1:B:193:ILE:HD11	2.37	0.60
1:F:46:LYS:HA	1:F:72:SER:HA	1.84	0.60
1:F:372:ALA:HB1	1:F:399:ALA:HA	1.83	0.60
1:L:68:PHE:HD1	1:L:140:VAL:HG11	1.65	0.60
1:L:189:PHE:CZ	1:L:193:ILE:HD11	2.37	0.60
1:L:418:ASN:CG	1:N:337:ARG:HH21	2.09	0.60
1:O:13:ILE:CG2	1:O:14:THR:N	2.65	0.60
1:P:369:SER:CB	1:P:445:ILE:HA	2.32	0.60
1:R:46:LYS:HA	1:R:72:SER:HA	1.84	0.60
1:T:154:ARG:HB3	1:T:154:ARG:HH11	1.63	0.60
3:W:397:PRO:HB3	3:W:747:THR:CG2	2.32	0.60
3:W:805:VAL:HB	3:W:809:THR:OG1	2.02	0.60
3:W:1102:PRO:HG3	3:W:1127:ILE:HG13	1.84	0.60
4:X:789:ASP:HB3	4:X:933:ASP:HB3	1.82	0.60
4:Y:383:ALA:HB1	4:Y:439:THR:HG23	1.83	0.60
4:Y:687:LEU:O	4:Y:688:THR:HG23	2.01	0.60
4:Y:765:PRO:HD3	4:Y:853:ARG:CD	2.32	0.60
1:H:63:ILE:HG21	1:H:70:GLN:CD	2.27	0.60
1:H:369:SER:CB	1:H:445:ILE:HA	2.32	0.60
1:H:540:VAL:HG23	1:H:569:ALA:HB3	1.83	0.60
1:L:540:VAL:HG23	1:L:569:ALA:HB3	1.83	0.60
1:M:13:ILE:CG2	1:M:14:THR:N	2.65	0.60
1:N:68:PHE:HD1	1:N:140:VAL:HG11	1.65	0.60
1:N:154:ARG:HH11	1:N:154:ARG:CB	2.14	0.60
5:O:649:MYR:C2	1:P:191:LYS:CE	2.79	0.60
1:R:154:ARG:HH11	1:R:154:ARG:CB	2.15	0.60
1:R:189:PHE:CZ	1:R:193:ILE:HD11	2.37	0.60
1:T:48:TRP:CZ2	1:T:63:ILE:HD11	2.36	0.60
1:T:101:THR:HA	3:W:406:ASN:CB	2.27	0.60
1:T:369:SER:OG	1:T:443:PHE:HD2	1.85	0.60
2:U:32:CYS:CB	4:X:958:HIS:HE1	1.90	0.60
2:U:296:LEU:O	2:U:297:PRO:C	2.44	0.60
3:W:224:PRO:O	3:W:294:SER:HB2	2.01	0.60
3:W:968:ALA:HB1	3:W:973:LEU:HB2	1.83	0.60
4:X:261:VAL:O	4:X:261:VAL:HG22	2.01	0.60
4:X:384:MET:HG3	4:X:384:MET:O	2.02	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:188:ALA:HB3	4:Y:763:VAL:HG11	1.83	0.60
4:Y:385:VAL:CG2	4:Y:386:GLU:N	2.64	0.60
4:Y:610:THR:CG2	4:Y:614:GLN:HG2	2.32	0.60
1:B:369:SER:CB	1:B:445:ILE:HA	2.32	0.59
5:C:649:MYR:C2	1:D:191:LYS:CE	2.79	0.59
1:F:178:SER:O	1:F:179:ALA:HB2	2.01	0.59
1:F:401:GLY:O	1:F:402:ALA:HB3	2.02	0.59
1:F:456:ASN:C	1:F:456:ASN:HD22	2.09	0.59
1:J:336:THR:HG22	1:J:456:ASN:HD21	1.65	0.59
1:J:401:GLY:O	1:J:402:ALA:HB3	2.02	0.59
1:L:147:ARG:HB2	1:L:147:ARG:CZ	2.32	0.59
1:L:358:LEU:CD1	1:L:417:PHE:CE2	2.62	0.59
1:L:369:SER:CB	1:L:445:ILE:HA	2.32	0.59
1:N:63:ILE:HG21	1:N:70:GLN:CD	2.27	0.59
1:N:358:LEU:HD13	1:N:417:PHE:CZ	2.35	0.59
1:T:369:SER:CB	1:T:445:ILE:HA	2.32	0.59
2:U:89:GLY:O	2:U:102:PRO:HA	2.02	0.59
2:U:161:VAL:CG2	2:U:263:GLN:HB2	2.31	0.59
2:U:167:PRO:O	2:U:169:ALA:N	2.35	0.59
2:U:267:ILE:HA	2:U:326:LEU:O	2.01	0.59
2:V:178:THR:OG1	4:Y:407:ARG:HB3	2.02	0.59
3:W:409:ILE:HG23	3:W:413:GLN:CD	2.27	0.59
3:W:477:ARG:HA	3:W:650:VAL:CG1	2.31	0.59
4:X:202:THR:HG23	4:X:249:TRP:NE1	2.17	0.59
4:X:677:TYR:CD1	4:X:678:PRO:HD2	2.38	0.59
4:X:1019:THR:HB	4:Y:1209:TYR:CD1	2.37	0.59
1:B:147:ARG:HB2	1:B:147:ARG:CZ	2.33	0.59
1:D:189:PHE:CZ	1:D:193:ILE:HD11	2.37	0.59
1:D:418:ASN:CG	1:F:337:ARG:HH21	2.09	0.59
1:D:469:VAL:HG23	1:F:575:MET:HG3	1.84	0.59
1:F:336:THR:HG22	1:F:456:ASN:HD21	1.65	0.59
5:I:649:MYR:C2	1:J:191:LYS:CE	2.79	0.59
1:J:431:ILE:HD13	1:J:437:ILE:HG23	1.82	0.59
1:J:443:PHE:HB2	1:J:457:PRO:CB	2.24	0.59
1:L:63:ILE:HG21	1:L:70:GLN:CD	2.27	0.59
1:N:178:SER:O	1:N:179:ALA:HB2	2.01	0.59
1:P:287:PRO:HB3	1:P:509:LEU:CD2	2.32	0.59
1:P:456:ASN:HD22	1:P:456:ASN:C	2.09	0.59
1:T:147:ARG:HB2	1:T:147:ARG:CZ	2.32	0.59
2:U:241:LEU:CA	4:X:1179:VAL:CG1	2.80	0.59
3:W:79:LEU:HD23	3:W:79:LEU:N	2.16	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:220:LEU:HD12	3:W:241:LEU:HD12	1.84	0.59
4:X:959:ARG:O	4:X:962:GLN:HB3	2.02	0.59
4:X:1156:THR:CG2	4:X:1161:ASN:HB3	2.32	0.59
4:Y:410:HIS:HD2	4:Y:411:GLN:H	1.46	0.59
4:Y:899:ALA:HB2	4:Y:929:PRO:HG2	1.83	0.59
1:B:287:PRO:HB3	1:B:509:LEU:CD2	2.32	0.59
1:E:13:ILE:CG2	1:E:14:THR:N	2.65	0.59
1:F:369:SER:CB	1:F:445:ILE:HA	2.32	0.59
5:I:649:MYR:H71	1:J:200:CYS:SG	2.40	0.59
1:N:372:ALA:HB1	1:N:399:ALA:HA	1.83	0.59
1:P:401:GLY:O	1:P:402:ALA:HB3	2.02	0.59
1:P:472:ARG:HH11	1:R:530:ARG:HG3	1.61	0.59
1:R:456:ASN:HD22	1:R:456:ASN:C	2.09	0.59
1:T:178:SER:O	1:T:179:ALA:HB2	2.01	0.59
2:U:117:ASN:HD21	2:U:308:TRP:CD1	2.21	0.59
3:W:713:VAL:HG23	3:W:735:LEU:HD13	1.83	0.59
3:W:1054:SER:HB3	3:W:1096:PHE:HE2	1.67	0.59
3:W:1236:PRO:HA	3:W:1290:PRO:O	2.02	0.59
4:X:302:LEU:O	4:X:302:LEU:HD23	2.02	0.59
4:X:315:SER:CB	4:X:331:ARG:HD2	2.31	0.59
4:X:653:PRO:CD	4:X:773:ARG:HB2	2.32	0.59
4:X:669:PHE:O	4:X:670:ILE:HD13	2.03	0.59
4:X:1087:TYR:HB3	4:X:1121:ILE:HG12	1.83	0.59
4:X:1149:THR:HG21	4:X:1162:ALA:H	1.66	0.59
4:Y:172:PRO:HD2	4:Y:847:SER:HA	1.83	0.59
1:D:46:LYS:HA	1:D:72:SER:HA	1.84	0.59
1:H:178:SER:O	1:H:179:ALA:HB2	2.01	0.59
1:H:481:VAL:HG12	1:H:482:ASP:N	2.17	0.59
1:J:274:ILE:HD11	1:J:514:LEU:HD21	1.73	0.59
1:J:337:ARG:HH21	1:N:418:ASN:CG	2.09	0.59
1:J:356:THR:CG2	1:N:412:ARG:NH2	2.63	0.59
1:L:412:ARG:HH22	1:N:356:THR:HG23	1.65	0.59
1:N:199:LEU:HD12	1:N:203:TYR:CD2	2.38	0.59
5:O:649:MYR:C2	1:P:191:LYS:HE2	2.27	0.59
1:P:63:ILE:HG21	1:P:70:GLN:CD	2.27	0.59
1:P:147:ARG:HB2	1:P:147:ARG:CZ	2.32	0.59
1:R:443:PHE:HB2	1:R:457:PRO:CB	2.24	0.59
1:R:521:VAL:HG23	1:R:577:VAL:HG22	1.85	0.59
2:V:272:PRO:HB2	2:V:394:PHE:CE2	2.38	0.59
3:W:643:HIS:N	3:W:643:HIS:CD2	2.70	0.59
3:W:836:THR:CG2	3:W:854:MET:HB2	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:506:GLN:NE2	4:X:724:LEU:HD21	2.18	0.59
4:Y:124:ALA:HB3	4:Y:135:HIS:CD2	2.37	0.59
1:B:401:GLY:O	1:B:402:ALA:HB3	2.02	0.59
1:B:431:ILE:HD13	1:B:437:ILE:HG23	1.82	0.59
1:D:147:ARG:HB2	1:D:147:ARG:CZ	2.32	0.59
1:D:171:THR:CG2	1:H:602:SER:OG	2.48	0.59
1:D:337:ARG:NH2	1:H:418:ASN:HD21	1.93	0.59
1:F:73:PHE:HB2	1:F:119:VAL:HG21	1.85	0.59
1:F:189:PHE:CZ	1:F:193:ILE:HD11	2.37	0.59
1:H:46:LYS:HA	1:H:72:SER:HA	1.84	0.59
1:H:369:SER:OG	1:H:443:PHE:HD2	1.84	0.59
1:J:178:SER:O	1:J:179:ALA:HB2	2.01	0.59
1:J:521:VAL:HG23	1:J:577:VAL:HG22	1.85	0.59
1:L:178:SER:O	1:L:179:ALA:HB2	2.01	0.59
1:N:449:THR:CG2	1:N:450:SER:H	2.16	0.59
1:P:178:SER:O	1:P:179:ALA:HB2	2.01	0.59
1:R:481:VAL:HG12	1:R:482:ASP:N	2.17	0.59
1:S:13:ILE:CG2	1:S:14:THR:N	2.65	0.59
3:W:43:LEU:CD1	3:W:64:PRO:HG2	2.33	0.59
3:W:177:TYR:O	3:W:197:HIS:HA	2.02	0.59
3:W:564:LEU:HD13	3:W:570:VAL:CG1	2.33	0.59
3:W:991:LEU:HG	3:W:997:TRP:CZ3	2.37	0.59
3:W:1251:THR:HG22	3:W:1256:PRO:HA	1.84	0.59
4:X:294:ARG:HD3	4:X:885:LEU:O	2.02	0.59
4:Y:1203:THR:HG23	4:Y:1203:THR:O	2.02	0.59
1:A:13:ILE:CG2	1:A:14:THR:N	2.65	0.59
5:A:649:MYR:H71	1:B:200:CYS:SG	2.40	0.59
1:C:13:ILE:CG2	1:C:14:THR:N	2.65	0.59
1:D:271:LEU:HG	1:D:517:LEU:CB	2.30	0.59
1:D:356:THR:CG2	1:H:412:ARG:NH2	2.63	0.59
1:F:189:PHE:CZ	1:F:193:ILE:CD1	2.86	0.59
1:F:199:LEU:HD12	1:F:203:TYR:CD2	2.38	0.59
1:F:287:PRO:HB3	1:F:509:LEU:CD2	2.32	0.59
1:F:341:MET:CB	1:F:437:ILE:HG23	2.29	0.59
1:F:449:THR:CG2	1:F:450:SER:N	2.66	0.59
1:H:73:PHE:HB2	1:H:119:VAL:HG21	1.85	0.59
1:H:189:PHE:CZ	1:H:193:ILE:CD1	2.86	0.59
1:H:199:LEU:HD12	1:H:203:TYR:CD2	2.38	0.59
1:H:199:LEU:HD12	1:H:203:TYR:HD2	1.68	0.59
1:H:449:THR:CG2	1:H:450:SER:H	2.16	0.59
1:J:189:PHE:CZ	1:J:193:ILE:CD1	2.86	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:199:LEU:HD12	1:N:203:TYR:HD2	1.68	0.59
1:N:369:SER:CB	1:N:445:ILE:HA	2.32	0.59
1:N:449:THR:CG2	1:N:450:SER:N	2.66	0.59
2:U:37:TRP:HA	2:U:37:TRP:CE3	2.37	0.59
2:U:59:PRO:HB2	2:U:373:MET:HG3	1.84	0.59
2:U:272:PRO:HB2	2:U:394:PHE:CE2	2.38	0.59
2:V:184:HIS:NE2	4:Y:436:LEU:HD11	2.17	0.59
3:W:843:LEU:HD23	3:W:854:MET:HE1	1.83	0.59
3:W:1209:ASP:HB2	3:W:1219:ILE:HG22	1.84	0.59
4:X:219:LEU:HB2	4:X:222:PHE:CD2	2.38	0.59
4:X:1059:PHE:O	4:X:1063:VAL:HG22	2.03	0.59
4:Y:249:TRP:HH2	4:Y:342:LEU:HD13	1.67	0.59
4:Y:277:VAL:HG22	4:Y:299:LEU:CD2	2.26	0.59
4:Y:355:LYS:NZ	4:Y:1161:ASN:OD1	2.31	0.59
4:Y:672:SER:O	4:Y:673:ASN:C	2.46	0.59
1:B:73:PHE:HB2	1:B:119:VAL:HG21	1.85	0.59
1:B:199:LEU:HD12	1:B:203:TYR:HD2	1.68	0.59
1:D:199:LEU:HD12	1:D:203:TYR:CD2	2.38	0.59
1:D:260:SER:HB3	1:E:33:ALA:HB2	1.85	0.59
1:D:372:ALA:HB1	1:D:399:ALA:HA	1.83	0.59
1:F:369:SER:OG	1:F:443:PHE:HD2	1.85	0.59
1:G:13:ILE:CG2	1:G:14:THR:N	2.65	0.59
1:H:92:TRP:CE2	1:H:156:VAL:HG23	2.38	0.59
1:I:13:ILE:CG2	1:I:14:THR:N	2.65	0.59
1:I:33:ALA:HB2	1:N:260:SER:HB3	1.85	0.59
1:J:73:PHE:HB2	1:J:119:VAL:HG21	1.85	0.59
1:L:369:SER:OG	1:L:443:PHE:HD2	1.85	0.59
1:L:449:THR:CG2	1:L:450:SER:H	2.16	0.59
1:N:103:CYS:SG	1:N:152:ARG:NH2	2.61	0.59
1:N:401:GLY:O	1:N:402:ALA:HB3	2.02	0.59
1:P:199:LEU:HD12	1:P:203:TYR:CD2	2.38	0.59
1:R:147:ARG:HB2	1:R:147:ARG:CZ	2.32	0.59
1:R:199:LEU:HD12	1:R:203:TYR:HD2	1.68	0.59
1:R:372:ALA:HB2	1:R:399:ALA:HA	1.85	0.59
1:T:57:THR:HG22	1:T:58:ILE:N	2.15	0.59
1:T:92:TRP:CE2	1:T:156:VAL:HG23	2.38	0.59
1:T:199:LEU:HD12	1:T:203:TYR:HD2	1.68	0.59
1:T:274:ILE:HD11	1:T:514:LEU:HD21	1.73	0.59
1:T:401:GLY:O	1:T:402:ALA:HB3	2.02	0.59
1:T:628:GLN:HA	1:T:631:THR:HG22	1.85	0.59
2:V:156:ILE:HD12	2:V:300:ILE:HD13	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:277:VAL:HG13	4:X:278:LEU:N	2.18	0.59
4:X:865:VAL:HG11	4:X:958:HIS:HB2	1.85	0.59
4:Y:302:LEU:HD22	4:Y:905:VAL:HG22	1.84	0.59
4:Y:626:LEU:HD11	4:Y:776:GLN:NE2	2.18	0.59
4:Y:655:GLU:OE1	4:Y:674:ARG:HD3	2.02	0.59
4:Y:1069:ALA:O	4:Y:1071:ARG:N	2.35	0.59
4:Y:1156:THR:HG23	4:Y:1161:ASN:HB2	1.85	0.59
1:B:63:ILE:HG21	1:B:70:GLN:CD	2.27	0.59
1:B:370:VAL:O	1:B:370:VAL:HG23	2.02	0.59
1:D:189:PHE:CZ	1:D:193:ILE:CD1	2.86	0.59
1:D:252:LEU:O	1:D:256:SER:HB3	2.03	0.59
1:D:412:ARG:NH2	1:F:356:THR:CG2	2.63	0.59
1:F:147:ARG:HB2	1:F:147:ARG:CZ	2.32	0.59
1:F:215:TYR:C	1:F:217:ALA:H	2.09	0.59
1:F:350:THR:HG23	1:F:350:THR:O	2.03	0.59
1:H:401:GLY:O	1:H:402:ALA:HB3	2.02	0.59
1:H:449:THR:CG2	1:H:450:SER:N	2.66	0.59
1:L:46:LYS:HA	1:L:72:SER:HA	1.84	0.59
1:L:252:LEU:O	1:L:256:SER:HB3	2.03	0.59
1:M:28:SER:HA	1:N:216:PRO:HD2	1.85	0.59
1:N:46:LYS:HA	1:N:72:SER:HA	1.84	0.59
1:N:73:PHE:HB2	1:N:119:VAL:HG21	1.85	0.59
1:P:412:ARG:NH2	1:R:356:THR:CG2	2.63	0.59
1:Q:13:ILE:CG2	1:Q:14:THR:N	2.65	0.59
1:R:252:LEU:O	1:R:256:SER:HB3	2.03	0.59
1:R:271:LEU:HG	1:R:517:LEU:CB	2.30	0.59
1:R:431:ILE:HD13	1:R:437:ILE:HG23	1.82	0.59
1:T:73:PHE:HB2	1:T:119:VAL:HG21	1.85	0.59
1:T:562:TYR:HB2	1:T:563:PRO:HD3	1.85	0.59
2:U:214:ILE:HD13	2:U:232:PHE:HB2	1.85	0.59
2:U:275:GLN:NE2	2:U:387:GLN:HB3	2.17	0.59
3:W:4:VAL:HG22	3:W:347:GLN:HB2	1.85	0.59
3:W:175:CYS:C	3:W:177:TYR:H	2.10	0.59
3:W:426:LEU:HD23	3:W:710:ILE:O	2.02	0.59
3:W:474:ASP:O	3:W:477:ARG:HB3	2.03	0.59
3:W:498:ALA:O	3:W:501:VAL:HG12	2.03	0.59
4:X:248:ASN:HB3	4:X:251:SER:HB3	1.84	0.59
4:Y:412:ASP:OD1	4:Y:414:THR:HG22	2.03	0.59
4:Y:760:SER:OG	4:Y:850:MET:HE2	2.03	0.59
4:Y:902:MET:HG3	4:Y:924:ALA:HB2	1.85	0.59
4:Y:987:THR:HG21	4:Y:993:TRP:CH2	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:212:ILE:HD11	1:B:220:PRO:HB3	1.85	0.59
1:C:33:ALA:HB2	1:H:260:SER:HB3	1.85	0.59
1:D:540:VAL:HG23	1:D:569:ALA:HB3	1.83	0.59
1:E:28:SER:HA	1:F:216:PRO:HD2	1.85	0.59
1:G:28:SER:HA	1:H:216:PRO:HD2	1.85	0.59
1:H:294:TYR:OH	1:H:502:LEU:HD23	2.03	0.59
1:J:147:ARG:HB2	1:J:147:ARG:CZ	2.32	0.59
1:J:356:THR:HG23	1:N:412:ARG:NH2	2.18	0.59
1:L:199:LEU:HD12	1:L:203:TYR:CD2	2.38	0.59
1:L:412:ARG:NH2	1:N:356:THR:HG23	2.18	0.59
1:L:449:THR:CG2	1:L:450:SER:N	2.66	0.59
1:N:92:TRP:CE2	1:N:156:VAL:HG23	2.38	0.59
1:N:562:TYR:HB2	1:N:563:PRO:HD3	1.85	0.59
1:P:154:ARG:HH11	1:P:154:ARG:CB	2.14	0.59
1:P:252:LEU:O	1:P:256:SER:HB3	2.03	0.59
1:P:358:LEU:HD13	1:P:417:PHE:CZ	2.35	0.59
1:P:370:VAL:HG23	1:P:370:VAL:O	2.02	0.59
1:R:212:ILE:HD11	1:R:220:PRO:HB3	1.85	0.59
1:R:412:ARG:NH2	1:T:356:THR:HG23	2.18	0.59
1:T:449:THR:CG2	1:T:450:SER:H	2.16	0.59
1:T:521:VAL:HG23	1:T:577:VAL:HG22	1.85	0.59
3:W:150:ALA:O	3:W:164:VAL:HG11	2.02	0.59
3:W:831:LEU:O	3:W:852:VAL:HA	2.02	0.59
3:W:987:SER:HA	3:W:1124:SER:HB3	1.85	0.59
4:X:297:VAL:O	4:X:301:LEU:HG	2.03	0.59
4:X:597:GLU:HG3	4:X:636:ALA:HB1	1.84	0.59
4:X:931:ILE:HG12	4:Y:689:VAL:HG11	1.85	0.59
4:Y:119:CYS:HB3	4:Y:123:ASN:N	2.18	0.59
4:Y:387:CYS:HB3	4:Y:1194:LEU:HD21	1.84	0.59
1:B:178:SER:O	1:B:179:ALA:HB2	2.01	0.59
1:B:252:LEU:O	1:B:256:SER:HB3	2.03	0.59
1:D:294:TYR:OH	1:D:502:LEU:HD23	2.03	0.59
1:D:449:THR:CG2	1:D:450:SER:H	2.16	0.59
1:F:92:TRP:CE2	1:F:156:VAL:HG23	2.38	0.59
1:F:412:ARG:NH2	1:H:356:THR:HG23	2.18	0.59
1:H:189:PHE:CZ	1:H:193:ILE:HD11	2.37	0.59
1:H:628:GLN:HA	1:H:631:THR:HG22	1.85	0.59
1:J:152:ARG:HA	1:J:152:ARG:HH11	1.68	0.59
1:J:294:TYR:OH	1:J:502:LEU:HD23	2.03	0.59
1:J:369:SER:CB	1:J:445:ILE:HA	2.32	0.59
1:L:372:ALA:HB2	1:L:399:ALA:HA	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:562:TYR:HB2	1:L:563:PRO:HD3	1.85	0.59
1:N:49:ARG:NH2	1:N:64:VAL:HG11	2.18	0.59
1:N:147:ARG:HB2	1:N:147:ARG:CZ	2.33	0.59
1:N:628:GLN:HA	1:N:631:THR:HG22	1.85	0.59
1:R:189:PHE:CZ	1:R:193:ILE:CD1	2.86	0.59
1:R:205:ASN:HA	1:R:208:TYR:HB3	1.85	0.59
1:R:294:TYR:OH	1:R:502:LEU:HD23	2.03	0.59
1:R:369:SER:CB	1:R:445:ILE:HA	2.32	0.59
1:T:154:ARG:HH11	1:T:154:ARG:CB	2.14	0.59
2:U:276:HIS:HB3	2:U:366:ILE:CG2	2.33	0.59
3:W:63:PRO:HB2	3:W:64:PRO:HD3	1.84	0.59
3:W:1053:THR:HG22	3:W:1095:GLU:HB3	1.85	0.59
4:X:473:VAL:HG12	4:X:474:GLU:N	2.18	0.59
4:X:924:ALA:O	4:X:926:TYR:N	2.36	0.59
4:Y:106:MET:HE3	4:Y:108:VAL:HG21	1.85	0.59
4:Y:210:ILE:HD11	4:Y:1087:TYR:CD1	2.38	0.59
1:B:189:PHE:CZ	1:B:193:ILE:CD1	2.86	0.58
1:B:562:TYR:HB2	1:B:563:PRO:HD3	1.85	0.58
1:D:48:TRP:CD1	1:D:48:TRP:N	2.70	0.58
1:D:372:ALA:HB3	1:D:444:LEU:CD1	2.33	0.58
1:D:412:ARG:NH2	1:F:356:THR:HG23	2.18	0.58
1:F:370:VAL:HG23	1:F:370:VAL:O	2.02	0.58
1:F:412:ARG:HH22	1:H:356:THR:HG23	1.65	0.58
1:H:49:ARG:NH2	1:H:64:VAL:HG11	2.18	0.58
1:H:484:ILE:HG22	1:H:485:VAL:N	2.19	0.58
5:I:649:MYR:C2	1:J:191:LYS:HE2	2.27	0.58
1:J:372:ALA:HB3	1:J:444:LEU:CD1	2.33	0.58
1:K:28:SER:HA	1:L:216:PRO:HD2	1.85	0.58
1:L:92:TRP:CE2	1:L:156:VAL:HG23	2.38	0.58
1:N:350:THR:O	1:N:350:THR:HG23	2.03	0.58
1:N:484:ILE:HG22	1:N:485:VAL:N	2.18	0.58
1:P:46:LYS:HA	1:P:72:SER:HA	1.84	0.58
1:P:205:ASN:HA	1:P:208:TYR:HB3	1.85	0.58
1:P:237:GLU:CD	1:R:46:LYS:HZ3	2.11	0.58
1:P:521:VAL:HG23	1:P:577:VAL:HG22	1.85	0.58
1:R:63:ILE:HG21	1:R:70:GLN:CD	2.27	0.58
1:R:369:SER:OG	1:R:443:PHE:HD2	1.85	0.58
1:T:189:PHE:CZ	1:T:193:ILE:HD11	2.37	0.58
2:U:225:ARG:HA	2:U:233:TYR:CZ	2.38	0.58
3:W:23:LEU:C	3:W:23:LEU:HD23	2.28	0.58
3:W:426:LEU:O	3:W:702:ASP:HB3	2.02	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:291:LEU:HD12	4:X:891:PHE:CB	2.32	0.58
4:Y:467:ALA:O	4:Y:471:PRO:HD3	2.03	0.58
1:B:46:LYS:HA	1:B:72:SER:HA	1.84	0.58
1:B:92:TRP:CE2	1:B:156:VAL:HG23	2.38	0.58
1:B:199:LEU:HD12	1:B:203:TYR:CD2	2.38	0.58
1:B:358:LEU:HD13	1:B:417:PHE:CZ	2.35	0.58
1:D:199:LEU:HD12	1:D:203:TYR:HD2	1.68	0.58
1:D:369:SER:CB	1:D:445:ILE:HA	2.32	0.58
1:D:575:MET:HG3	1:H:469:VAL:HG23	1.85	0.58
1:F:49:ARG:NH2	1:F:64:VAL:HG11	2.18	0.58
1:F:63:ILE:HG21	1:F:70:GLN:CD	2.27	0.58
1:F:199:LEU:HD12	1:F:203:TYR:HD2	1.68	0.58
1:H:252:LEU:O	1:H:256:SER:HB3	2.03	0.58
1:J:63:ILE:HG21	1:J:70:GLN:CD	2.27	0.58
1:J:252:LEU:O	1:J:256:SER:HB3	2.03	0.58
1:J:369:SER:HB3	1:J:445:ILE:HA	1.86	0.58
1:N:189:PHE:CZ	1:N:193:ILE:HD11	2.37	0.58
1:P:87:PHE:HD1	1:R:121:ALA:HB2	1.61	0.58
1:T:63:ILE:HG21	1:T:70:GLN:CD	2.27	0.58
1:T:252:LEU:O	1:T:256:SER:HB3	2.03	0.58
2:U:327:ASP:N	2:U:399:GLN:HG3	2.18	0.58
3:W:204:VAL:CG1	3:W:238:HIS:HB2	2.34	0.58
3:W:816:ASN:ND2	3:W:845:LEU:HD21	2.18	0.58
3:W:992:SER:O	3:W:997:TRP:HZ3	1.86	0.58
4:X:215:LEU:H	4:X:215:LEU:CD2	2.16	0.58
4:Y:571:LEU:HD11	4:Y:705:ILE:HD11	1.85	0.58
4:Y:829:THR:HG23	4:Y:830:ASN:H	1.68	0.58
1:B:49:ARG:NH2	1:B:64:VAL:HG11	2.18	0.58
1:B:294:TYR:OH	1:B:502:LEU:HD23	2.03	0.58
1:B:350:THR:HG23	1:B:350:THR:O	2.03	0.58
1:B:484:ILE:HG22	1:B:485:VAL:N	2.19	0.58
1:D:350:THR:HG23	1:D:350:THR:O	2.03	0.58
1:F:294:TYR:OH	1:F:502:LEU:HD23	2.03	0.58
1:F:380:VAL:HG22	1:N:379:SER:HB3	1.85	0.58
1:F:449:THR:CG2	1:F:450:SER:H	2.16	0.58
1:J:189:PHE:CZ	1:J:193:ILE:HD11	2.37	0.58
1:J:469:VAL:HG23	1:L:575:MET:HG3	1.84	0.58
1:L:49:ARG:NH2	1:L:64:VAL:HG11	2.19	0.58
1:L:401:GLY:O	1:L:402:ALA:HB3	2.02	0.58
1:L:628:GLN:HA	1:L:631:THR:HG22	1.85	0.58
1:N:287:PRO:HB3	1:N:509:LEU:CD2	2.32	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:57:THR:O	1:P:58:ILE:HB	2.02	0.58
1:R:199:LEU:HD12	1:R:203:TYR:CD2	2.38	0.58
1:R:412:ARG:NH2	1:T:356:THR:CG2	2.63	0.58
1:R:418:ASN:CG	1:T:337:ARG:HH21	2.09	0.58
1:T:199:LEU:HD12	1:T:203:TYR:CD2	2.38	0.58
1:T:484:ILE:HG22	1:T:485:VAL:N	2.19	0.58
2:U:79:PHE:HE2	2:U:138:ILE:HD11	1.69	0.58
2:U:86:SER:CB	2:U:91:THR:HB	2.33	0.58
2:V:178:THR:CB	4:Y:407:ARG:HB3	2.33	0.58
3:W:15:THR:HG23	3:W:317:GLY:HA2	1.85	0.58
4:X:627:ASN:ND2	4:X:630:LEU:HG	2.17	0.58
1:B:152:ARG:HA	1:B:152:ARG:HH11	1.69	0.58
1:B:551:GLN:OE1	1:B:551:GLN:HA	2.04	0.58
1:D:154:ARG:HH11	1:D:154:ARG:CB	2.15	0.58
1:D:380:VAL:HG13	1:D:381:PRO:HD2	1.85	0.58
1:D:521:VAL:HG23	1:D:577:VAL:HG22	1.85	0.58
1:F:369:SER:HB3	1:F:445:ILE:HA	1.86	0.58
1:F:484:ILE:HG22	1:F:485:VAL:N	2.19	0.58
1:F:551:GLN:OE1	1:F:551:GLN:HA	2.04	0.58
1:H:271:LEU:HG	1:H:517:LEU:CB	2.30	0.58
1:H:372:ALA:HB3	1:H:444:LEU:CD1	2.33	0.58
1:J:271:LEU:HG	1:J:517:LEU:CB	2.30	0.58
1:J:346:ASP:HB3	1:J:428:ARG:N	2.15	0.58
1:J:412:ARG:NH2	1:L:356:THR:HG23	2.18	0.58
1:J:575:MET:HG3	1:N:469:VAL:HG23	1.85	0.58
1:L:152:ARG:HA	1:L:152:ARG:HH11	1.69	0.58
1:L:625:ARG:HG2	1:R:197:ASP:OD1	2.03	0.58
1:N:297:ALA:HB2	1:N:460:MET:CB	2.26	0.58
1:P:189:PHE:CZ	1:P:193:ILE:CD1	2.86	0.58
1:P:369:SER:HB3	1:P:445:ILE:HA	1.86	0.58
1:R:401:GLY:O	1:R:402:ALA:HB3	2.02	0.58
1:R:628:GLN:HA	1:R:631:THR:HG22	1.85	0.58
1:S:28:SER:HA	1:T:216:PRO:HD2	1.85	0.58
2:U:198:GLN:OE1	4:X:661:THR:HG21	2.03	0.58
2:V:270:ILE:HD11	2:V:327:ASP:HB2	1.84	0.58
3:W:823:THR:HG22	3:W:847:PRO:HD2	1.85	0.58
4:X:718:THR:HG23	4:X:726:ARG:NH1	2.08	0.58
4:X:874:CYS:HB2	4:X:901:ILE:HD13	1.84	0.58
4:Y:415:GLN:HE21	4:Y:662:LEU:CD2	2.16	0.58
1:B:628:GLN:HA	1:B:631:THR:HG22	1.85	0.58
1:D:73:PHE:HB2	1:D:119:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:401:GLY:O	1:D:402:ALA:HB3	2.02	0.58
1:D:484:ILE:HG22	1:D:485:VAL:N	2.18	0.58
1:H:57:THR:HG22	1:H:58:ILE:N	2.15	0.58
1:H:205:ASN:HA	1:H:208:TYR:HB3	1.85	0.58
1:H:350:THR:HG23	1:H:350:THR:O	2.03	0.58
1:H:369:SER:HB3	1:H:445:ILE:HA	1.86	0.58
1:J:341:MET:CB	1:J:437:ILE:HG23	2.29	0.58
1:J:484:ILE:HG22	1:J:485:VAL:N	2.19	0.58
1:J:541:SER:HB3	1:L:169:MET:HG2	1.86	0.58
1:K:13:ILE:CG2	1:K:14:THR:N	2.65	0.58
1:L:73:PHE:HB2	1:L:119:VAL:HG21	1.85	0.58
1:L:199:LEU:HD12	1:L:203:TYR:HD2	1.68	0.58
1:P:199:LEU:HD12	1:P:203:TYR:HD2	1.68	0.58
1:P:369:SER:OG	1:P:443:PHE:HD2	1.85	0.58
1:P:380:VAL:HG13	1:P:381:PRO:HD2	1.86	0.58
1:T:49:ARG:NH2	1:T:64:VAL:HG11	2.18	0.58
1:T:287:PRO:HB3	1:T:509:LEU:CD2	2.32	0.58
3:W:81:TYR:CA	3:W:180:LEU:HD23	2.33	0.58
3:W:439:PHE:HD2	3:W:684:ARG:HH12	1.49	0.58
3:W:563:LEU:HD12	3:W:563:LEU:N	2.18	0.58
3:W:891:ASP:O	3:W:927:THR:N	2.33	0.58
4:X:259:LEU:HD23	4:X:911:THR:CG2	2.34	0.58
4:X:527:ALA:HB3	4:X:817:ALA:CB	2.34	0.58
4:X:831:LEU:HD12	4:X:832:ILE:N	2.18	0.58
4:X:936:ALA:O	4:X:937:ALA:HB2	2.03	0.58
4:X:940:GLN:HE21	4:X:944:ASN:HB3	1.69	0.58
4:Y:235:LEU:HB3	4:Y:236:PRO:HD2	1.85	0.58
1:B:540:VAL:HG23	1:B:569:ALA:HB3	1.83	0.58
1:D:47:LEU:C	1:D:48:TRP:CD1	2.82	0.58
1:D:57:THR:O	1:D:60:SER:N	2.36	0.58
1:D:205:ASN:HA	1:D:208:TYR:HB3	1.85	0.58
1:D:449:THR:CG2	1:D:450:SER:N	2.66	0.58
1:F:469:VAL:HG23	1:H:575:MET:HG3	1.84	0.58
1:H:380:VAL:HG13	1:H:381:PRO:HD2	1.85	0.58
1:J:294:TYR:HH	1:J:502:LEU:HA	1.68	0.58
1:J:449:THR:CG2	1:J:450:SER:N	2.66	0.58
1:L:541:SER:HB3	1:N:169:MET:HG2	1.86	0.58
1:P:469:VAL:HG23	1:R:575:MET:HG3	1.84	0.58
1:R:449:THR:CG2	1:R:450:SER:N	2.66	0.58
1:R:541:SER:HB3	1:T:169:MET:HG2	1.86	0.58
5:S:649:MYR:H71	1:T:200:CYS:SG	2.44	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:189:ALA:HA	2:U:208:ILE:HG12	1.85	0.58
2:V:211:LEU:O	2:V:214:ILE:HG22	2.04	0.58
3:W:438:VAL:HG22	3:W:439:PHE:N	2.18	0.58
3:W:918:ILE:HG23	3:W:929:MET:HE1	1.84	0.58
4:X:213:ALA:O	4:X:215:LEU:HD22	2.03	0.58
4:X:300:MET:O	4:X:303:GLN:HB3	2.03	0.58
4:X:742:MET:HG2	4:X:827:THR:OG1	2.04	0.58
4:Y:194:ILE:HD13	4:Y:1201:TYR:CE2	2.39	0.58
4:Y:200:LEU:HG	4:Y:339:LEU:HD22	1.86	0.58
4:Y:200:LEU:HD21	4:Y:343:ALA:HB2	1.85	0.58
4:Y:633:PRO:N	4:Y:640:ARG:HD3	2.19	0.58
1:B:74:VAL:O	1:B:74:VAL:HG12	2.04	0.58
1:B:449:THR:CG2	1:B:450:SER:H	2.16	0.58
5:C:649:MYR:H142	5:C:649:MYR:C10	2.10	0.58
1:D:78:MET:HE1	1:H:238:VAL:CG2	2.07	0.58
1:D:356:THR:HG23	1:H:412:ARG:NH2	2.18	0.58
1:F:252:LEU:O	1:F:256:SER:HB3	2.03	0.58
5:G:649:MYR:C2	1:H:191:LYS:HE2	2.27	0.58
1:J:51:VAL:HG11	1:J:62:ALA:HB2	1.85	0.58
1:J:92:TRP:CE2	1:J:156:VAL:HG23	2.38	0.58
1:L:215:TYR:C	1:L:217:ALA:H	2.09	0.58
1:L:350:THR:HG23	1:L:350:THR:O	2.03	0.58
1:L:372:ALA:HB1	1:L:399:ALA:HA	1.83	0.58
1:L:380:VAL:HG13	1:L:381:PRO:HD2	1.86	0.58
1:N:189:PHE:CZ	1:N:193:ILE:CD1	2.86	0.58
1:P:49:ARG:NH2	1:P:64:VAL:HG11	2.18	0.58
1:P:78:MET:HE1	1:T:238:VAL:CG2	2.07	0.58
1:Q:28:SER:HA	1:R:216:PRO:HD2	1.85	0.58
4:X:189:ASN:ND2	4:X:915:LEU:HA	2.13	0.58
4:X:368:ILE:HG23	4:X:369:GLY:N	2.19	0.58
4:Y:499:THR:OG1	4:Y:500:ILE:N	2.37	0.58
4:Y:740:LYS:NZ	4:Y:742:MET:HE2	2.18	0.58
4:Y:1156:THR:HG21	4:Y:1161:ASN:HB2	1.86	0.58
1:B:380:VAL:HG13	1:B:381:PRO:HD2	1.85	0.58
1:D:212:ILE:HD11	1:D:220:PRO:HB3	1.85	0.58
1:D:274:ILE:HD11	1:D:514:LEU:HD21	1.73	0.58
5:E:649:MYR:H142	5:E:649:MYR:C10	2.10	0.58
1:F:205:ASN:HA	1:F:208:TYR:HB3	1.85	0.58
1:F:212:ILE:HD11	1:F:220:PRO:HB3	1.85	0.58
1:F:372:ALA:HB3	1:F:444:LEU:CD1	2.33	0.58
1:F:481:VAL:HG12	1:F:482:ASP:N	2.17	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:G:649:MYR:C2	1:H:191:LYS:HZ3	2.04	0.58
1:H:212:ILE:HD11	1:H:220:PRO:HB3	1.85	0.58
1:J:199:LEU:HD12	1:J:203:TYR:CD2	2.38	0.58
1:J:380:VAL:HG13	1:J:381:PRO:HD2	1.85	0.58
1:L:189:PHE:CZ	1:L:193:ILE:CD1	2.86	0.58
1:L:484:ILE:HG22	1:L:485:VAL:N	2.19	0.58
1:P:73:PHE:HB2	1:P:119:VAL:HG21	1.85	0.58
1:P:92:TRP:CE2	1:P:156:VAL:HG23	2.38	0.58
1:P:449:THR:CG2	1:P:450:SER:H	2.16	0.58
2:U:223:LEU:HD21	2:U:411:PHE:CD2	2.38	0.58
3:W:27:PHE:CE2	3:W:99:LEU:HD21	2.39	0.58
3:W:929:MET:CE	3:W:981:LEU:HD11	2.33	0.58
4:X:801:ARG:NH1	4:X:801:ARG:CB	2.60	0.58
4:Y:191:PRO:HG2	4:Y:193:LEU:HG	1.85	0.58
1:A:28:SER:HA	1:B:216:PRO:HD2	1.85	0.58
1:B:382:ILE:HA	1:B:385:VAL:CG1	2.34	0.58
1:C:28:SER:HA	1:D:216:PRO:HD2	1.85	0.58
1:D:561:ASP:O	1:D:562:TYR:HB2	2.04	0.58
1:F:380:VAL:HG13	1:F:381:PRO:HD2	1.85	0.58
1:H:147:ARG:HB2	1:H:147:ARG:CZ	2.33	0.58
1:J:46:LYS:HA	1:J:72:SER:HA	1.84	0.58
1:J:169:MET:HG2	1:N:541:SER:HB3	1.86	0.58
1:L:369:SER:HB3	1:L:445:ILE:HA	1.86	0.58
1:P:356:THR:HG23	1:T:412:ARG:NH2	2.18	0.58
1:P:372:ALA:HB2	1:P:399:ALA:HA	1.85	0.58
1:R:287:PRO:HB3	1:R:509:LEU:CD2	2.32	0.58
1:R:380:VAL:HG13	1:R:381:PRO:HD2	1.85	0.58
1:T:189:PHE:CZ	1:T:193:ILE:CD1	2.86	0.58
1:T:350:THR:HG23	1:T:350:THR:O	2.03	0.58
1:T:370:VAL:HG23	1:T:370:VAL:O	2.02	0.58
1:T:380:VAL:HG13	1:T:381:PRO:HD2	1.85	0.58
2:U:16:GLN:HG3	2:U:17:PRO:HD2	1.85	0.58
2:V:312:VAL:HG11	2:V:315:LEU:HD12	1.84	0.58
3:W:248:LEU:HD23	3:W:254:LEU:CD2	2.31	0.58
3:W:1208:CYS:HB3	3:W:1216:GLY:HA2	1.86	0.58
4:Y:215:LEU:N	4:Y:215:LEU:CD2	2.66	0.58
4:Y:294:ARG:HE	4:Y:890:GLN:HB3	1.68	0.58
4:Y:299:LEU:HD21	4:Y:904:ALA:HB3	1.85	0.58
4:Y:328:ARG:NH1	4:Y:366:ASP:O	2.37	0.58
4:Y:579:PRO:HB2	4:Y:779:VAL:HG23	1.86	0.58
4:Y:874:CYS:HB3	4:Y:893:VAL:HG21	1.86	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:205:ASN:HA	1:B:208:TYR:HB3	1.85	0.58
1:D:169:MET:HG2	1:H:541:SER:HB3	1.85	0.58
1:H:175:SER:OG	1:H:627:ARG:HD3	2.04	0.58
1:H:272:ASP:O	1:H:273:LEU:HD22	2.04	0.58
1:H:341:MET:CB	1:H:437:ILE:HG23	2.29	0.58
1:H:369:SER:HB3	1:H:446:PRO:HD3	1.86	0.58
1:H:562:TYR:HB2	1:H:563:PRO:HD3	1.85	0.58
1:J:175:SER:OG	1:J:627:ARG:HD3	2.04	0.58
1:J:350:THR:HG23	1:J:350:THR:O	2.03	0.58
1:J:382:ILE:HA	1:J:385:VAL:CG1	2.34	0.58
1:J:449:THR:CG2	1:J:450:SER:H	2.16	0.58
1:L:294:TYR:OH	1:L:502:LEU:HD23	2.03	0.58
1:N:294:TYR:OH	1:N:502:LEU:HD23	2.03	0.58
1:N:369:SER:HB3	1:N:445:ILE:HA	1.86	0.58
1:O:28:SER:HA	1:P:216:PRO:HD2	1.85	0.58
1:P:74:VAL:O	1:P:74:VAL:HG12	2.04	0.58
1:P:350:THR:HG23	1:P:350:THR:O	2.03	0.58
1:P:423:GLN:O	1:P:423:GLN:HG3	2.04	0.58
1:P:481:VAL:HG12	1:P:482:ASP:N	2.17	0.58
1:R:73:PHE:HB2	1:R:119:VAL:HG21	1.85	0.58
1:R:92:TRP:CE2	1:R:156:VAL:HG23	2.38	0.58
1:T:449:THR:CG2	1:T:450:SER:N	2.66	0.58
1:T:481:VAL:HG12	1:T:482:ASP:N	2.17	0.58
3:W:146:SER:N	3:W:147:PRO:HD2	2.19	0.58
3:W:850:LEU:HD23	3:W:850:LEU:C	2.28	0.58
4:X:424:ALA:HA	4:X:757:VAL:HG22	1.86	0.58
4:X:608:GLN:HG2	4:X:608:GLN:O	2.03	0.58
4:X:899:ALA:HA	4:X:929:PRO:HG2	1.85	0.58
4:X:983:TYR:CE1	4:X:1002:PRO:HB2	2.39	0.58
4:Y:376:LEU:CD1	4:Y:438:PRO:HB3	2.27	0.58
4:Y:627:ASN:ND2	4:Y:629:GLN:HB2	2.18	0.58
4:Y:640:ARG:HG3	4:Y:640:ARG:NH1	2.19	0.58
4:Y:740:LYS:HZ1	4:Y:742:MET:HE2	1.69	0.58
1:B:272:ASP:O	1:B:273:LEU:HD22	2.04	0.57
1:B:369:SER:HB3	1:B:446:PRO:HD3	1.86	0.57
1:B:372:ALA:HB2	1:B:399:ALA:HA	1.85	0.57
1:D:175:SER:OG	1:D:627:ARG:HD3	2.04	0.57
1:D:369:SER:HB3	1:D:446:PRO:HD3	1.86	0.57
1:F:347:SER:HA	1:F:469:VAL:HG12	1.86	0.57
1:H:525:ILE:HG23	1:H:526:PRO:HD2	1.86	0.57
1:H:561:ASP:O	1:H:562:TYR:HB2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:74:VAL:O	1:J:74:VAL:HG12	2.04	0.57
1:L:139:THR:HA	1:L:142:ILE:HG23	1.86	0.57
1:L:205:ASN:HA	1:L:208:TYR:HB3	1.85	0.57
1:L:341:MET:CB	1:L:437:ILE:HG23	2.29	0.57
1:L:481:VAL:HG12	1:L:482:ASP:N	2.17	0.57
1:N:74:VAL:HG12	1:N:74:VAL:O	2.04	0.57
1:N:175:SER:OG	1:N:627:ARG:HD3	2.04	0.57
1:N:252:LEU:O	1:N:256:SER:HB3	2.03	0.57
1:N:341:MET:CB	1:N:437:ILE:HG23	2.29	0.57
1:N:369:SER:HB3	1:N:446:PRO:HD3	1.86	0.57
1:N:521:VAL:HG23	1:N:577:VAL:HG22	1.85	0.57
1:N:561:ASP:O	1:N:562:TYR:HB2	2.04	0.57
1:P:58:ILE:HG12	1:P:127:LEU:CG	2.34	0.57
1:P:272:ASP:O	1:P:273:LEU:HD22	2.04	0.57
1:R:341:MET:CB	1:R:437:ILE:HG23	2.29	0.57
1:R:418:ASN:HD21	1:T:337:ARG:NH2	1.93	0.57
1:R:469:VAL:HG23	1:T:575:MET:HG3	1.85	0.57
1:T:272:ASP:O	1:T:273:LEU:HD22	2.04	0.57
1:T:294:TYR:OH	1:T:502:LEU:HD23	2.03	0.57
1:T:369:SER:HB3	1:T:445:ILE:HA	1.86	0.57
1:T:551:GLN:HA	1:T:551:GLN:OE1	2.04	0.57
2:U:399:GLN:O	2:U:401:ALA:N	2.37	0.57
3:W:396:ARG:HA	3:W:793:THR:OG1	2.04	0.57
3:W:937:LEU:HA	3:W:970:PRO:HB3	1.86	0.57
3:W:997:TRP:C	3:W:999:PRO:HD2	2.29	0.57
4:X:597:GLU:CG	4:X:636:ALA:HA	2.34	0.57
4:X:692:THR:HG23	4:X:745:PHE:HD1	1.69	0.57
1:B:491:ALA:HB2	1:B:592:THR:CB	2.32	0.57
1:D:107:VAL:HG21	1:F:128:ASP:CG	2.30	0.57
1:D:347:SER:HA	1:D:469:VAL:HG12	1.86	0.57
1:F:272:ASP:O	1:F:273:LEU:HD22	2.04	0.57
1:F:628:GLN:HA	1:F:631:THR:HG22	1.85	0.57
1:H:152:ARG:HH11	1:H:152:ARG:HA	1.69	0.57
1:H:491:ALA:HB2	1:H:592:THR:CB	2.32	0.57
1:J:128:ASP:CG	1:N:107:VAL:HG21	2.29	0.57
1:J:212:ILE:HD11	1:J:220:PRO:HB3	1.85	0.57
1:L:280:LEU:CD1	1:L:486:PRO:HG2	2.35	0.57
1:L:521:VAL:HG23	1:L:577:VAL:HG22	1.85	0.57
5:M:649:MYR:H71	1:N:200:CYS:SG	2.44	0.57
1:P:128:ASP:CG	1:T:107:VAL:HG21	2.30	0.57
1:P:260:SER:HB3	1:Q:33:ALA:HB2	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:369:SER:HB3	1:R:446:PRO:HD3	1.86	0.57
1:T:205:ASN:HA	1:T:208:TYR:HB3	1.85	0.57
1:T:280:LEU:CD1	1:T:486:PRO:HG2	2.34	0.57
1:T:431:ILE:HD13	1:T:437:ILE:HG23	1.82	0.57
2:U:374:LEU:HD21	2:U:388:PRO:HA	1.86	0.57
3:W:76:GLU:O	3:W:77:ASN:HB3	2.05	0.57
3:W:219:ASN:ND2	4:X:674:ARG:HH12	2.02	0.57
3:W:321:GLU:HG3	3:W:322:SER:N	2.18	0.57
3:W:559:VAL:O	3:W:559:VAL:HG12	2.04	0.57
3:W:864:MET:HE2	3:W:874:TYR:HB2	1.85	0.57
4:X:425:ASN:O	4:X:427:LEU:N	2.34	0.57
4:X:488:LEU:CD1	4:X:821:ALA:HA	2.34	0.57
4:X:597:GLU:CD	4:X:636:ALA:HA	2.28	0.57
4:X:782:ASN:CB	4:X:784:LEU:HD11	2.33	0.57
4:X:1017:PHE:CD1	4:Y:1210:VAL:O	2.56	0.57
4:X:1054:VAL:HG21	4:Y:1212:SER:CB	2.33	0.57
4:Y:192:GLU:HB2	4:Y:914:ASP:OD1	2.05	0.57
4:Y:997:ALA:CB	4:Y:1141:ASN:HB2	2.34	0.57
1:B:521:VAL:HG23	1:B:577:VAL:HG22	1.85	0.57
1:D:272:ASP:O	1:D:273:LEU:HD22	2.04	0.57
1:D:628:GLN:HA	1:D:631:THR:HG22	1.85	0.57
1:E:13:ILE:HG23	1:E:14:THR:N	2.20	0.57
1:F:382:ILE:HA	1:F:385:VAL:CG1	2.34	0.57
1:F:541:SER:HB3	1:H:169:MET:HG2	1.86	0.57
1:F:562:TYR:HB2	1:F:563:PRO:HD3	1.85	0.57
1:H:517:LEU:O	1:H:517:LEU:HD22	2.05	0.57
1:J:107:VAL:HG21	1:L:128:ASP:CG	2.30	0.57
1:L:418:ASN:HD21	1:N:337:ARG:NH2	1.93	0.57
1:L:469:VAL:HG23	1:N:575:MET:HG3	1.84	0.57
1:R:449:THR:CG2	1:R:450:SER:H	2.16	0.57
1:T:147:ARG:HH11	1:T:147:ARG:HB3	1.70	0.57
1:T:175:SER:OG	1:T:627:ARG:HD3	2.04	0.57
1:T:212:ILE:HD11	1:T:220:PRO:HB3	1.85	0.57
2:U:182:ILE:HB	2:U:246:ALA:HB3	1.86	0.57
2:V:94:ASP:HB2	2:V:95:PRO:HD2	1.86	0.57
3:W:221:ALA:HA	3:W:293:THR:HG21	1.85	0.57
3:W:1107:ILE:HG23	3:W:1126:THR:HG22	1.86	0.57
4:X:1054:VAL:CG1	4:Y:835:HIS:CE1	2.87	0.57
4:X:1078:LEU:H	4:X:1078:LEU:CD2	2.15	0.57
4:X:1150:ASN:HB3	4:X:1153:SER:HB3	1.86	0.57
4:Y:545:LEU:HD13	4:Y:569:LEU:HD11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:369:SER:HB3	1:D:445:ILE:HA	1.86	0.57
1:D:372:ALA:HB2	1:D:399:ALA:HA	1.85	0.57
1:D:562:TYR:HB2	1:D:563:PRO:HD3	1.85	0.57
1:F:372:ALA:HB2	1:F:399:ALA:HA	1.85	0.57
1:I:28:SER:HA	1:J:216:PRO:HD2	1.85	0.57
1:J:78:MET:HE1	1:N:238:VAL:CG2	2.07	0.57
1:J:272:ASP:O	1:J:273:LEU:HD22	2.04	0.57
1:J:372:ALA:HB2	1:J:399:ALA:HA	1.85	0.57
1:L:87:PHE:HD1	1:N:121:ALA:HB2	1.61	0.57
1:L:347:SER:HA	1:L:469:VAL:HG12	1.86	0.57
1:L:423:GLN:HG3	1:L:423:GLN:O	2.04	0.57
1:M:13:ILE:HG23	1:M:14:THR:N	2.20	0.57
1:N:205:ASN:HA	1:N:208:TYR:HB3	1.85	0.57
1:N:380:VAL:HG13	1:N:381:PRO:HD2	1.85	0.57
1:N:517:LEU:O	1:N:517:LEU:HD22	2.05	0.57
1:P:212:ILE:HD11	1:P:220:PRO:HB3	1.85	0.57
1:P:294:TYR:OH	1:P:502:LEU:HD23	2.03	0.57
1:P:369:SER:HB3	1:P:446:PRO:HD3	1.86	0.57
1:P:484:ILE:HG22	1:P:485:VAL:N	2.19	0.57
1:R:350:THR:HG23	1:R:350:THR:O	2.03	0.57
1:T:561:ASP:O	1:T:562:TYR:HB2	2.04	0.57
2:U:138:ILE:O	2:U:142:VAL:HG23	2.03	0.57
3:W:313:LEU:HD23	3:W:347:GLN:HG3	1.85	0.57
3:W:459:ASP:HB2	3:W:625:ARG:HD3	1.87	0.57
3:W:1036:ARG:NH2	3:W:1053:THR:HG21	2.19	0.57
4:X:680:PRO:HG3	4:X:696:ALA:HB2	1.86	0.57
4:Y:541:VAL:N	4:Y:808:ALA:HB1	2.19	0.57
4:Y:697:MET:HE2	4:Y:744:PRO:HA	1.84	0.57
1:B:368:THR:CA	1:B:403:SER:HB2	2.35	0.57
1:B:369:SER:HB3	1:B:445:ILE:HA	1.86	0.57
1:D:341:MET:CB	1:D:437:ILE:HG23	2.29	0.57
1:D:368:THR:CA	1:D:403:SER:HB2	2.35	0.57
1:F:369:SER:HB3	1:F:446:PRO:HD3	1.86	0.57
1:F:431:ILE:HD13	1:F:437:ILE:HG23	1.82	0.57
1:H:347:SER:HA	1:H:469:VAL:HG12	1.86	0.57
1:J:94:PRO:HG2	1:J:210:VAL:HG22	1.87	0.57
1:J:205:ASN:HA	1:J:208:TYR:HB3	1.85	0.57
1:J:354:SER:CB	1:J:419:MET:HG2	2.35	0.57
1:J:423:GLN:HG3	1:J:423:GLN:O	2.04	0.57
1:J:525:ILE:HG23	1:J:526:PRO:HD2	1.86	0.57
1:L:107:VAL:HG21	1:N:128:ASP:CG	2.30	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:347:SER:HA	1:N:469:VAL:HG12	1.86	0.57
1:N:354:SER:CB	1:N:419:MET:HG2	2.35	0.57
1:N:372:ALA:HB2	1:N:399:ALA:HA	1.85	0.57
1:N:551:GLN:OE1	1:N:551:GLN:HA	2.04	0.57
1:O:33:ALA:HB2	1:T:260:SER:HB3	1.85	0.57
1:P:449:THR:CG2	1:P:450:SER:N	2.66	0.57
1:P:561:ASP:O	1:P:562:TYR:HB2	2.04	0.57
1:P:628:GLN:HA	1:P:631:THR:HG22	1.85	0.57
1:R:382:ILE:HA	1:R:385:VAL:CG1	2.34	0.57
1:R:484:ILE:HG22	1:R:485:VAL:N	2.19	0.57
2:U:241:LEU:CA	4:X:1179:VAL:HG11	2.33	0.57
3:W:570:VAL:HG12	3:W:572:THR:H	1.70	0.57
3:W:627:PHE:CD1	3:W:627:PHE:C	2.82	0.57
3:W:831:LEU:HD11	3:W:894:THR:HG22	1.85	0.57
3:W:1138:MET:SD	3:W:1139:PRO:HD2	2.45	0.57
4:X:249:TRP:CZ3	4:X:342:LEU:HD23	2.38	0.57
4:X:271:VAL:CG1	4:X:1114:PRO:HD3	2.33	0.57
4:X:417:VAL:CG1	4:X:418:GLN:N	2.67	0.57
4:X:427:LEU:HD11	4:X:841:PHE:HD1	1.67	0.57
4:X:455:GLN:OE1	4:X:455:GLN:CA	2.50	0.57
4:X:971:GLU:HG2	4:X:974:LEU:HD13	1.86	0.57
4:Y:747:ILE:O	4:Y:747:ILE:HG23	2.04	0.57
4:Y:1033:ASP:HB3	4:Y:1037:VAL:O	2.03	0.57
1:B:94:PRO:HG2	1:B:210:VAL:HG22	1.87	0.57
1:D:51:VAL:N	1:D:60:SER:O	2.36	0.57
1:D:92:TRP:CE2	1:D:156:VAL:HG23	2.38	0.57
1:D:147:ARG:HB3	1:D:147:ARG:HH11	1.70	0.57
1:D:287:PRO:HB3	1:D:509:LEU:CD2	2.32	0.57
1:D:354:SER:CB	1:D:419:MET:HG2	2.35	0.57
1:D:382:ILE:HA	1:D:385:VAL:CG1	2.34	0.57
1:F:175:SER:OG	1:F:627:ARG:HD3	2.04	0.57
1:F:280:LEU:CD1	1:F:486:PRO:HG2	2.35	0.57
1:F:491:ALA:HB2	1:F:592:THR:CB	2.32	0.57
1:H:423:GLN:O	1:H:423:GLN:HG3	2.04	0.57
1:J:369:SER:HB3	1:J:446:PRO:HD3	1.86	0.57
1:J:450:SER:O	1:J:453:ASN:HB2	2.05	0.57
1:J:481:VAL:HG12	1:J:482:ASP:N	2.17	0.57
1:L:372:ALA:HB3	1:L:444:LEU:CD1	2.33	0.57
1:L:517:LEU:O	1:L:517:LEU:HD22	2.05	0.57
1:N:450:SER:O	1:N:453:ASN:HB2	2.05	0.57
1:P:356:THR:CG2	1:T:412:ARG:NH2	2.63	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:427:GLU:HB2	1:P:430:THR:HG23	1.87	0.57
1:P:551:GLN:OE1	1:P:551:GLN:HA	2.04	0.57
1:P:562:TYR:HB2	1:P:563:PRO:HD3	1.85	0.57
1:R:49:ARG:NH2	1:R:64:VAL:HG11	2.19	0.57
1:T:152:ARG:HA	1:T:152:ARG:HH11	1.68	0.57
1:T:517:LEU:O	1:T:517:LEU:HD22	2.05	0.57
2:U:128:TYR:OH	2:U:139:ASN:HB2	2.05	0.57
3:W:59:ILE:HB	3:W:178:ILE:HD11	1.86	0.57
3:W:267:MET:HE2	3:W:336:PHE:CG	2.40	0.57
4:X:983:TYR:HE2	4:X:1075:LEU:HG	1.70	0.57
4:X:1169:TRP:HB3	4:X:1172:LEU:HB3	1.87	0.57
4:Y:549:ALA:CB	4:Y:815:PRO:HG3	2.33	0.57
1:D:280:LEU:CD1	1:D:486:PRO:HG2	2.35	0.57
1:D:481:VAL:HG12	1:D:482:ASP:N	2.17	0.57
1:F:107:VAL:HG21	1:H:128:ASP:CG	2.30	0.57
1:F:368:THR:CA	1:F:403:SER:HB2	2.35	0.57
1:F:412:ARG:NH2	1:H:356:THR:CG2	2.63	0.57
1:G:13:ILE:HG23	1:G:14:THR:N	2.20	0.57
1:J:199:LEU:HD12	1:J:203:TYR:HD2	1.68	0.57
1:J:628:GLN:HA	1:J:631:THR:HG22	1.85	0.57
1:L:368:THR:CA	1:L:403:SER:HB2	2.35	0.57
1:L:382:ILE:HA	1:L:385:VAL:CG1	2.34	0.57
1:N:94:PRO:HG2	1:N:210:VAL:HG22	1.87	0.57
1:N:272:ASP:O	1:N:273:LEU:HD22	2.04	0.57
1:P:152:ARG:HH11	1:P:152:ARG:HA	1.69	0.57
1:P:271:LEU:HG	1:P:517:LEU:CB	2.30	0.57
1:R:427:GLU:HB2	1:R:430:THR:HG23	1.87	0.57
1:S:13:ILE:HG23	1:S:14:THR:N	2.20	0.57
2:U:327:ASP:H	2:U:399:GLN:CG	2.16	0.57
3:W:245:GLY:O	3:W:257:GLN:HB2	2.05	0.57
3:W:369:ILE:O	3:W:370:GLY:O	2.23	0.57
3:W:845:LEU:N	3:W:845:LEU:CD1	2.67	0.57
3:W:942:SER:HB3	3:W:949:ILE:HG13	1.87	0.57
4:X:229:TYR:O	4:X:230:GLN:C	2.47	0.57
4:X:242:ARG:NH2	4:X:1085:LEU:HD13	2.15	0.57
4:X:1075:LEU:HD23	4:X:1075:LEU:C	2.29	0.57
1:B:517:LEU:O	1:B:517:LEU:HD22	2.05	0.57
1:D:128:ASP:CG	1:H:107:VAL:HG21	2.30	0.57
1:H:94:PRO:HG2	1:H:210:VAL:HG22	1.86	0.57
1:H:443:PHE:HB2	1:H:457:PRO:CB	2.24	0.57
1:J:562:TYR:HB2	1:J:563:PRO:HD3	1.85	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:147:ARG:HB3	1:L:147:ARG:HH11	1.70	0.57
1:L:175:SER:OG	1:L:627:ARG:HD3	2.04	0.57
1:L:551:GLN:HA	1:L:551:GLN:OE1	2.04	0.57
1:M:7:SER:O	1:M:8:VAL:C	2.48	0.57
1:N:372:ALA:HB3	1:N:444:LEU:CD1	2.33	0.57
1:P:107:VAL:HG21	1:R:128:ASP:CG	2.30	0.57
1:P:147:ARG:HB3	1:P:147:ARG:HH11	1.70	0.57
1:P:368:THR:CA	1:P:403:SER:HB2	2.35	0.57
1:R:491:ALA:HB2	1:R:592:THR:CB	2.32	0.57
1:T:354:SER:CB	1:T:419:MET:HG2	2.35	0.57
1:T:372:ALA:HB2	1:T:399:ALA:HA	1.85	0.57
2:U:117:ASN:HD21	2:U:308:TRP:HD1	1.51	0.57
3:W:302:THR:HG22	3:W:304:LEU:H	1.70	0.57
3:W:607:LEU:HD22	3:W:638:HIS:HB3	1.85	0.57
4:X:249:TRP:CE3	4:X:250:ALA:HB2	2.40	0.57
4:X:675:MET:HE3	4:X:766:PRO:CB	2.35	0.57
4:X:861:ARG:O	4:X:865:VAL:HG23	2.04	0.57
4:X:889:ARG:O	4:X:890:GLN:HB2	2.05	0.57
4:X:1064:TRP:NE1	4:X:1068:LYS:HE3	2.19	0.57
4:X:1125:TYR:H	4:X:1125:TYR:HD2	1.47	0.57
4:Y:58:SER:OG	4:Y:61:ASN:HB2	2.04	0.57
4:Y:530:LYS:CD	4:Y:811:LEU:HD21	2.35	0.57
4:Y:535:TRP:CE2	4:Y:678:PRO:HG2	2.40	0.57
4:Y:557:ILE:HG23	4:Y:717:MET:CE	2.26	0.57
4:Y:969:MET:HA	4:Y:972:MET:HE3	1.86	0.57
4:Y:990:ASN:HB2	4:Y:1131:ARG:CB	2.35	0.57
1:A:13:ILE:HG23	1:A:14:THR:N	2.20	0.57
1:B:347:SER:HA	1:B:469:VAL:HG12	1.86	0.57
1:B:354:SER:CB	1:B:419:MET:HG2	2.35	0.57
1:D:491:ALA:HB2	1:D:592:THR:CB	2.32	0.57
1:F:354:SER:CB	1:F:419:MET:HG2	2.35	0.57
1:F:423:GLN:HG3	1:F:423:GLN:O	2.04	0.57
1:H:372:ALA:HB2	1:H:399:ALA:HA	1.86	0.57
1:J:289:LEU:CD2	1:L:515:ASN:ND2	2.68	0.57
1:J:561:ASP:O	1:J:562:TYR:HB2	2.04	0.57
1:L:212:ILE:HD11	1:L:220:PRO:HB3	1.85	0.57
1:L:213:HIS:CG	1:L:235:LEU:HD23	2.40	0.57
1:L:272:ASP:O	1:L:273:LEU:HD22	2.04	0.57
1:L:287:PRO:HB3	1:L:509:LEU:CD2	2.32	0.57
1:N:427:GLU:HB2	1:N:430:THR:HG23	1.87	0.57
1:P:94:PRO:HG2	1:P:210:VAL:HG22	1.87	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:169:MET:HG2	1:T:541:SER:HB3	1.86	0.57
1:P:175:SER:OG	1:P:627:ARG:HD3	2.04	0.57
1:P:213:HIS:CG	1:P:235:LEU:HD23	2.40	0.57
1:P:412:ARG:NH2	1:R:356:THR:HG23	2.18	0.57
1:P:431:ILE:HD13	1:P:437:ILE:HG23	1.82	0.57
1:P:456:ASN:HB3	1:T:410:ASN:HD22	1.70	0.57
1:R:272:ASP:O	1:R:273:LEU:HD22	2.04	0.57
1:R:289:LEU:CD2	1:T:515:ASN:ND2	2.68	0.57
1:R:354:SER:CB	1:R:419:MET:HG2	2.35	0.57
1:R:423:GLN:HG3	1:R:423:GLN:O	2.04	0.57
1:R:562:TYR:HB2	1:R:563:PRO:HD3	1.85	0.57
2:U:27:GLN:CD	4:X:880:LEU:HB3	2.30	0.57
4:X:493:LEU:HD13	4:X:497:ILE:HD12	1.87	0.57
4:X:750:MET:HB3	4:X:837:TYR:OH	2.05	0.57
4:X:785:VAL:O	4:X:804:HIS:HB3	2.05	0.57
4:Y:249:TRP:CH2	4:Y:342:LEU:HD13	2.40	0.57
4:Y:252:LEU:HD13	4:Y:336:ARG:HG2	1.86	0.57
4:Y:356:ASN:HB2	4:Y:1151:ALA:HB1	1.87	0.57
4:Y:596:PRO:HB3	4:Y:716:ASN:HD22	1.70	0.57
1:B:175:SER:OG	1:B:627:ARG:HD3	2.04	0.57
1:D:94:PRO:HG2	1:D:210:VAL:HG22	1.87	0.57
1:F:147:ARG:CB	1:F:147:ARG:HH11	2.18	0.57
1:F:152:ARG:HA	1:F:152:ARG:HH11	1.69	0.57
1:H:360:TYR:C	1:H:360:TYR:CD2	2.83	0.57
1:J:50:PRO:O	2:V:401:ALA:CB	2.45	0.57
1:J:354:SER:HB2	1:J:419:MET:CA	2.35	0.57
1:J:617:VAL:HG21	1:L:158:LEU:HD21	1.87	0.57
1:L:271:LEU:HG	1:L:517:LEU:CB	2.30	0.57
1:N:212:ILE:HD11	1:N:220:PRO:HB3	1.85	0.57
1:P:372:ALA:HB3	1:P:444:LEU:CD1	2.33	0.57
1:P:450:SER:O	1:P:453:ASN:HB2	2.05	0.57
1:R:152:ARG:HA	1:R:152:ARG:HH11	1.69	0.57
1:T:94:PRO:HG2	1:T:210:VAL:HG22	1.87	0.57
1:T:347:SER:HA	1:T:469:VAL:HG12	1.86	0.57
2:U:320:GLN:C	2:U:322:VAL:H	2.13	0.57
3:W:27:PHE:O	3:W:31:LEU:HD23	2.05	0.57
3:W:247:VAL:HG11	3:W:250:TYR:HE2	1.70	0.57
4:X:371:LEU:HD11	4:X:388:MET:CG	2.34	0.57
4:X:466:THR:HA	4:X:809:ALA:HB1	1.86	0.57
4:X:538:ASN:ND2	4:X:768:GLN:HG2	2.20	0.57
4:X:1210:VAL:O	4:X:1211:ARG:CB	2.53	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:69:SER:HB3	4:Y:72:VAL:HG23	1.87	0.57
1:D:46:LYS:O	1:D:48:TRP:CD1	2.58	0.56
1:D:412:ARG:HH22	1:F:356:THR:HG23	1.65	0.56
1:D:515:ASN:ND2	1:H:289:LEU:CD2	2.68	0.56
1:D:541:SER:HB3	1:F:169:MET:HG2	1.86	0.56
5:E:649:MYR:H71	1:F:200:CYS:SG	2.45	0.56
1:F:368:THR:HA	1:F:403:SER:HB2	1.87	0.56
1:F:517:LEU:O	1:F:517:LEU:HD22	2.05	0.56
1:F:617:VAL:HG21	1:H:158:LEU:HD21	1.87	0.56
1:G:26:MET:O	1:H:216:PRO:HG3	2.05	0.56
5:G:649:MYR:H71	1:H:200:CYS:SG	2.44	0.56
1:H:521:VAL:HG23	1:H:577:VAL:HG22	1.85	0.56
1:J:158:LEU:HD21	1:N:617:VAL:HG21	1.87	0.56
1:J:287:PRO:HB3	1:J:509:LEU:CD2	2.32	0.56
1:J:369:SER:OG	1:J:443:PHE:HD2	1.85	0.56
1:J:596:MET:O	1:J:597:LEU:HB2	2.05	0.56
1:L:412:ARG:NH2	1:N:356:THR:CG2	2.63	0.56
1:N:368:THR:HA	1:N:403:SER:HB2	1.87	0.56
1:N:525:ILE:HG23	1:N:526:PRO:HD2	1.86	0.56
1:P:515:ASN:ND2	1:T:289:LEU:CD2	2.68	0.56
1:P:541:SER:HB3	1:R:169:MET:HG2	1.86	0.56
1:P:575:MET:HG3	1:T:469:VAL:HG23	1.85	0.56
1:R:147:ARG:HB3	1:R:147:ARG:HH11	1.70	0.56
1:R:410:ASN:HD22	1:T:456:ASN:HB3	1.70	0.56
1:R:517:LEU:O	1:R:517:LEU:HD22	2.05	0.56
1:R:525:ILE:HG23	1:R:526:PRO:HD2	1.86	0.56
1:T:147:ARG:CB	1:T:147:ARG:HH11	2.18	0.56
3:W:62:TYR:HB3	3:W:63:PRO:CD	2.20	0.56
3:W:433:CYS:SG	3:W:479:LEU:HB3	2.45	0.56
3:W:437:GLY:O	3:W:1010:LEU:HB2	2.05	0.56
3:W:1144:LEU:C	3:W:1144:LEU:HD23	2.30	0.56
4:X:370:ARG:HA	4:X:387:CYS:CB	2.35	0.56
4:X:406:LEU:HB3	4:X:441:LEU:HD21	1.87	0.56
1:B:341:MET:CB	1:B:437:ILE:HG23	2.29	0.56
1:C:26:MET:O	1:D:216:PRO:HG3	2.05	0.56
1:D:358:LEU:HD13	1:D:417:PHE:CZ	2.35	0.56
1:D:368:THR:HA	1:D:403:SER:HB2	1.87	0.56
1:D:596:MET:O	1:D:597:LEU:HB2	2.05	0.56
1:F:74:VAL:HG12	1:F:74:VAL:O	2.04	0.56
1:F:213:HIS:CG	1:F:235:LEU:HD23	2.40	0.56
1:H:596:MET:O	1:H:597:LEU:HB2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:13:ILE:HG23	1:I:14:THR:N	2.20	0.56
1:J:410:ASN:HD22	1:L:456:ASN:HB3	1.70	0.56
1:L:238:VAL:HG22	1:N:142:ILE:CD1	2.35	0.56
1:L:617:VAL:HG21	1:N:158:LEU:HD21	1.87	0.56
1:N:147:ARG:CB	1:N:147:ARG:HH11	2.18	0.56
1:P:517:LEU:O	1:P:517:LEU:HD22	2.05	0.56
1:P:525:ILE:HG23	1:P:526:PRO:HD2	1.86	0.56
1:R:280:LEU:CD1	1:R:486:PRO:HG2	2.35	0.56
1:S:26:MET:O	1:T:216:PRO:HG3	2.05	0.56
1:T:450:SER:O	1:T:453:ASN:HB2	2.05	0.56
3:W:566:LEU:HD11	3:W:609:MET:HE2	1.86	0.56
3:W:637:THR:HB	3:W:664:SER:O	2.05	0.56
4:X:274:TYR:CE2	4:X:297:VAL:HG22	2.40	0.56
4:X:895:SER:O	4:X:898:ALA:N	2.38	0.56
1:B:147:ARG:HB3	1:B:147:ARG:HH11	1.70	0.56
1:B:358:LEU:CD1	1:B:417:PHE:CE2	2.62	0.56
1:B:596:MET:O	1:B:597:LEU:HB2	2.05	0.56
1:D:213:HIS:CG	1:D:235:LEU:HD23	2.40	0.56
1:D:427:GLU:HB2	1:D:430:THR:HG23	1.87	0.56
1:D:456:ASN:HB3	1:H:410:ASN:HD22	1.70	0.56
1:D:517:LEU:O	1:D:517:LEU:HD22	2.05	0.56
1:D:551:GLN:OE1	1:D:551:GLN:HA	2.04	0.56
1:F:271:LEU:HG	1:F:517:LEU:CB	2.30	0.56
1:F:360:TYR:CD2	1:F:360:TYR:C	2.83	0.56
1:F:427:GLU:HB2	1:F:430:THR:HG23	1.87	0.56
1:F:521:VAL:HG23	1:F:577:VAL:HG22	1.85	0.56
1:F:525:ILE:HG23	1:F:526:PRO:HD2	1.86	0.56
1:G:9:ASN:CB	1:H:209:ASN:CG	2.79	0.56
1:H:74:VAL:O	1:H:74:VAL:HG12	2.04	0.56
1:H:368:THR:HA	1:H:403:SER:HB2	1.87	0.56
1:H:368:THR:CA	1:H:403:SER:HB2	2.35	0.56
1:J:58:ILE:HG12	1:J:127:LEU:HD23	1.85	0.56
1:J:121:ALA:HB2	1:N:87:PHE:HD1	1.61	0.56
1:J:427:GLU:HB2	1:J:430:THR:HG23	1.87	0.56
1:J:491:ALA:HB2	1:J:592:THR:CB	2.32	0.56
1:L:74:VAL:O	1:L:74:VAL:HG12	2.04	0.56
1:L:94:PRO:HG2	1:L:210:VAL:HG22	1.87	0.56
1:L:268:GLY:O	1:L:269:LYS:C	2.49	0.56
1:L:450:SER:O	1:L:453:ASN:HB2	2.05	0.56
1:L:525:ILE:HG23	1:L:526:PRO:HD2	1.86	0.56
1:M:26:MET:O	1:N:216:PRO:HG3	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:213:HIS:CG	1:N:235:LEU:HD23	2.40	0.56
1:N:271:LEU:HG	1:N:517:LEU:CB	2.30	0.56
1:N:354:SER:HB2	1:N:419:MET:CA	2.35	0.56
1:N:382:ILE:HA	1:N:385:VAL:CG1	2.34	0.56
1:N:423:GLN:HG3	1:N:423:GLN:O	2.04	0.56
1:P:354:SER:CB	1:P:419:MET:HG2	2.35	0.56
1:P:354:SER:HB2	1:P:419:MET:CA	2.35	0.56
1:P:368:THR:HA	1:P:403:SER:HB2	1.87	0.56
1:R:74:VAL:O	1:R:74:VAL:HG12	2.04	0.56
1:R:94:PRO:HG2	1:R:210:VAL:HG22	1.87	0.56
1:R:450:SER:O	1:R:453:ASN:HB2	2.05	0.56
1:R:561:ASP:O	1:R:562:TYR:HB2	2.04	0.56
1:S:7:SER:O	1:S:8:VAL:C	2.49	0.56
1:T:213:HIS:CG	1:T:235:LEU:HD23	2.40	0.56
1:T:360:TYR:C	1:T:360:TYR:CD2	2.83	0.56
1:T:368:THR:CA	1:T:403:SER:HB2	2.35	0.56
1:T:423:GLN:HG3	1:T:423:GLN:O	2.04	0.56
2:U:269:CYS:SG	2:U:274:TRP:HB3	2.45	0.56
2:U:362:TYR:HB2	4:X:1178:ARG:NH2	2.21	0.56
3:W:465:PHE:CE2	3:W:592:MET:HE2	2.39	0.56
3:W:603:LEU:HD21	3:W:607:LEU:HD12	1.87	0.56
3:W:812:ALA:C	3:W:814:GLY:H	2.12	0.56
4:X:219:LEU:HB2	4:X:222:PHE:HD2	1.71	0.56
4:X:279:SER:HA	4:X:283:ILE:HG22	1.86	0.56
4:X:593:LEU:O	4:X:593:LEU:CG	2.53	0.56
4:X:793:ARG:NH1	4:Y:693:TYR:CD2	2.73	0.56
4:X:935:SER:OG	4:X:949:HIS:HB3	2.05	0.56
4:X:983:TYR:CE2	4:X:1075:LEU:HG	2.40	0.56
4:X:986:GLN:HG3	4:X:1135:TYR:CE2	2.40	0.56
4:X:1086:HIS:C	4:X:1086:HIS:CD2	2.84	0.56
4:X:1095:ASP:HB2	4:Y:107:LYS:O	2.06	0.56
4:Y:776:GLN:O	4:Y:778:ASP:N	2.38	0.56
4:Y:1122:PRO:HA	4:Y:1159:GLY:CA	2.31	0.56
4:Y:1129:THR:HG21	4:Y:1158:PHE:CZ	2.40	0.56
1:A:26:MET:O	1:B:216:PRO:HG3	2.05	0.56
5:A:649:MYR:H142	5:A:649:MYR:C10	2.10	0.56
1:B:369:SER:OG	1:B:443:PHE:HD2	1.85	0.56
1:D:268:GLY:O	1:D:269:LYS:C	2.49	0.56
1:D:287:PRO:O	1:D:471:LEU:HD11	2.05	0.56
1:D:357:ILE:CG2	1:D:359:PRO:HD3	2.35	0.56
1:D:360:TYR:C	1:D:360:TYR:CD2	2.83	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:525:ILE:HG23	1:D:526:PRO:HD2	1.86	0.56
1:F:147:ARG:HH11	1:F:147:ARG:HB3	1.70	0.56
1:F:450:SER:O	1:F:453:ASN:HB2	2.05	0.56
1:H:147:ARG:HB3	1:H:147:ARG:HH11	1.70	0.56
1:H:287:PRO:O	1:H:471:LEU:HD11	2.05	0.56
1:H:450:SER:O	1:H:453:ASN:HB2	2.05	0.56
1:J:147:ARG:HB3	1:J:147:ARG:HH11	1.70	0.56
1:J:287:PRO:O	1:J:471:LEU:HD11	2.05	0.56
1:J:551:GLN:OE1	1:J:551:GLN:HA	2.04	0.56
1:L:561:ASP:O	1:L:562:TYR:HB2	2.04	0.56
1:P:347:SER:HA	1:P:469:VAL:HG12	1.86	0.56
1:P:491:ALA:HB2	1:P:592:THR:CB	2.32	0.56
1:Q:26:MET:O	1:R:216:PRO:HG3	2.05	0.56
1:R:372:ALA:HB3	1:R:444:LEU:CD1	2.33	0.56
3:W:398:LEU:HD13	3:W:790:ARG:HH21	1.71	0.56
4:Y:207:LEU:HD22	4:Y:244:VAL:CG2	2.36	0.56
4:Y:424:ALA:HA	4:Y:757:VAL:HG22	1.88	0.56
4:Y:485:PRO:HD3	4:Y:837:TYR:CE2	2.41	0.56
1:B:280:LEU:CD1	1:B:486:PRO:HG2	2.34	0.56
1:B:427:GLU:HB2	1:B:430:THR:HG23	1.87	0.56
1:B:481:VAL:HG12	1:B:482:ASP:N	2.17	0.56
1:D:248:GLU:CD	1:D:248:GLU:N	2.64	0.56
1:D:617:VAL:HG21	1:F:158:LEU:HD21	1.88	0.56
1:F:154:ARG:NH1	1:F:154:ARG:CB	2.68	0.56
1:F:268:GLY:O	1:F:269:LYS:C	2.49	0.56
1:J:260:SER:HB3	1:K:33:ALA:HB2	1.85	0.56
1:J:280:LEU:CD1	1:J:486:PRO:HG2	2.35	0.56
1:J:456:ASN:HB3	1:N:410:ASN:HD22	1.70	0.56
1:N:481:VAL:HG12	1:N:482:ASP:N	2.17	0.56
1:O:9:ASN:CB	1:P:209:ASN:CG	2.79	0.56
1:O:26:MET:O	1:P:216:PRO:HG3	2.05	0.56
1:P:158:LEU:HD21	1:T:617:VAL:HG21	1.87	0.56
1:P:237:GLU:OE1	1:R:46:LYS:NZ	2.38	0.56
1:P:360:TYR:C	1:P:360:TYR:CD2	2.83	0.56
1:R:551:GLN:OE1	1:R:551:GLN:HA	2.03	0.56
1:S:28:SER:CB	1:T:215:TYR:HA	2.36	0.56
1:T:74:VAL:O	1:T:74:VAL:HG12	2.04	0.56
1:T:596:MET:O	1:T:597:LEU:HB2	2.05	0.56
3:W:71:HIS:HE1	3:W:73:ALA:HB3	1.67	0.56
3:W:727:LEU:C	3:W:727:LEU:HD13	2.30	0.56
3:W:732:LEU:O	3:W:732:LEU:HD13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:1136:LEU:HD22	3:W:1155:ILE:HG22	1.87	0.56
4:X:874:CYS:O	4:X:890:GLN:HG2	2.06	0.56
4:X:1182:ASN:HD21	4:X:1184:LEU:HD22	1.70	0.56
4:Y:315:SER:OG	4:Y:316:THR:N	2.38	0.56
4:Y:579:PRO:HB2	4:Y:779:VAL:CG2	2.35	0.56
1:A:9:ASN:CB	1:B:209:ASN:CG	2.79	0.56
1:B:168:THR:C	1:B:170:LEU:H	2.14	0.56
1:C:9:ASN:CB	1:D:209:ASN:CG	2.79	0.56
1:C:13:ILE:HG23	1:C:14:THR:N	2.20	0.56
1:D:154:ARG:NH1	1:D:154:ARG:CB	2.68	0.56
1:D:336:THR:HG23	1:D:456:ASN:OD1	2.06	0.56
1:D:354:SER:HB2	1:D:419:MET:CA	2.36	0.56
1:F:289:LEU:CD2	1:H:515:ASN:ND2	2.68	0.56
1:H:147:ARG:CB	1:H:147:ARG:HH11	2.18	0.56
1:H:427:GLU:HB2	1:H:430:THR:HG23	1.87	0.56
1:J:347:SER:HA	1:J:469:VAL:HG12	1.86	0.56
1:J:360:TYR:C	1:J:360:TYR:CD2	2.83	0.56
1:J:517:LEU:O	1:J:517:LEU:HD22	2.05	0.56
1:N:147:ARG:HH11	1:N:147:ARG:HB3	1.70	0.56
1:N:368:THR:CA	1:N:403:SER:HB2	2.35	0.56
1:N:596:MET:O	1:N:597:LEU:HB2	2.05	0.56
1:P:287:PRO:O	1:P:471:LEU:HD11	2.05	0.56
1:R:107:VAL:HG21	1:T:128:ASP:CG	2.30	0.56
1:R:357:ILE:CG2	1:R:359:PRO:HD3	2.35	0.56
1:T:248:GLU:CD	1:T:248:GLU:N	2.64	0.56
1:T:382:ILE:HA	1:T:385:VAL:CG1	2.34	0.56
2:U:10:THR:HG22	2:U:11:TYR:N	2.21	0.56
2:U:390:ASN:O	2:U:392:ALA:N	2.38	0.56
3:W:953:ASP:O	3:W:955:VAL:HG12	2.06	0.56
4:X:208:ASP:CB	4:X:236:PRO:HB2	2.35	0.56
4:X:242:ARG:NH1	4:X:1146:LEU:HA	2.20	0.56
4:X:283:ILE:HD12	4:X:289:ASN:N	2.20	0.56
4:X:450:ASP:OD1	4:X:861:ARG:NH1	2.38	0.56
4:X:599:ILE:HG21	4:X:639:LEU:HD23	1.87	0.56
4:X:725:THR:CG2	4:X:726:ARG:N	2.69	0.56
4:X:757:VAL:HG13	4:X:845:PHE:CE1	2.37	0.56
4:Y:352:THR:O	4:Y:352:THR:HG23	2.04	0.56
4:Y:448:SER:OG	4:Y:665:SER:HB3	2.06	0.56
1:B:450:SER:O	1:B:453:ASN:HB2	2.05	0.56
1:D:147:ARG:CB	1:D:147:ARG:HH11	2.18	0.56
1:D:357:ILE:HD11	1:D:414:GLN:CG	2.36	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:610:THR:O	1:D:612:SER:N	2.39	0.56
1:H:280:LEU:CD1	1:H:486:PRO:HG2	2.35	0.56
1:H:357:ILE:CG2	1:H:359:PRO:HD3	2.35	0.56
1:H:551:GLN:OE1	1:H:551:GLN:HA	2.04	0.56
1:J:49:ARG:NH2	1:J:64:VAL:HG11	2.20	0.56
1:J:357:ILE:CG2	1:J:359:PRO:HD3	2.36	0.56
1:J:515:ASN:ND2	1:N:289:LEU:CD2	2.68	0.56
1:K:9:ASN:CB	1:L:209:ASN:CG	2.79	0.56
1:L:168:THR:C	1:L:170:LEU:H	2.14	0.56
1:L:178:SER:OG	1:Q:3:ASN:ND2	2.39	0.56
1:L:369:SER:HB3	1:L:446:PRO:HD3	1.86	0.56
1:L:410:ASN:HD22	1:N:456:ASN:HB3	1.70	0.56
1:L:491:ALA:HB2	1:L:592:THR:CB	2.32	0.56
1:M:28:SER:CB	1:N:215:TYR:HA	2.36	0.56
1:N:280:LEU:CD1	1:N:486:PRO:HG2	2.34	0.56
1:N:336:THR:HG23	1:N:456:ASN:OD1	2.06	0.56
1:O:13:ILE:HG23	1:O:14:THR:N	2.20	0.56
1:P:596:MET:O	1:P:597:LEU:HB2	2.05	0.56
1:Q:9:ASN:CB	1:R:209:ASN:CG	2.79	0.56
1:R:168:THR:C	1:R:170:LEU:H	2.14	0.56
1:R:175:SER:OG	1:R:627:ARG:HD3	2.04	0.56
1:R:213:HIS:CG	1:R:235:LEU:HD23	2.40	0.56
1:R:368:THR:CA	1:R:403:SER:HB2	2.35	0.56
1:R:617:VAL:HG21	1:T:158:LEU:HD21	1.87	0.56
1:T:368:THR:HA	1:T:403:SER:HB2	1.87	0.56
1:T:369:SER:HB3	1:T:446:PRO:HD3	1.86	0.56
3:W:47:LEU:HD23	3:W:60:GLN:HB2	1.88	0.56
3:W:800:PHE:CE1	3:W:1005:GLY:HA2	2.40	0.56
3:W:1017:ILE:O	3:W:1021:ARG:HG3	2.05	0.56
4:X:514:ILE:HG13	4:X:515:LEU:N	2.20	0.56
4:X:557:ILE:HB	4:X:592:LEU:CD2	2.35	0.56
4:X:971:GLU:OE1	4:X:1188:ILE:HG13	2.06	0.56
4:X:1014:VAL:HG21	4:X:1047:TYR:CD1	2.41	0.56
4:Y:737:ARG:HG2	4:Y:737:ARG:NH2	2.11	0.56
1:C:28:SER:CB	1:D:215:TYR:HA	2.36	0.56
1:D:121:ALA:HB2	1:H:87:PHE:HD1	1.61	0.56
1:D:158:LEU:HD21	1:H:617:VAL:HG21	1.87	0.56
1:D:168:THR:C	1:D:170:LEU:H	2.14	0.56
1:F:561:ASP:O	1:F:562:TYR:HB2	2.04	0.56
1:H:248:GLU:CD	1:H:248:GLU:N	2.64	0.56
1:I:9:ASN:CB	1:J:209:ASN:CG	2.79	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:238:VAL:CG1	1:L:82:PHE:HZ	2.19	0.56
1:J:248:GLU:N	1:J:248:GLU:CD	2.64	0.56
1:J:336:THR:HG23	1:J:456:ASN:OD1	2.06	0.56
1:J:368:THR:CA	1:J:403:SER:HB2	2.35	0.56
1:L:248:GLU:CD	1:L:248:GLU:N	2.64	0.56
1:N:248:GLU:CD	1:N:248:GLU:N	2.64	0.56
1:P:248:GLU:CD	1:P:248:GLU:N	2.64	0.56
1:P:280:LEU:CD1	1:P:486:PRO:HG2	2.34	0.56
1:P:410:ASN:HD22	1:R:456:ASN:HB3	1.70	0.56
1:R:248:GLU:N	1:R:248:GLU:CD	2.64	0.56
1:R:336:THR:HG23	1:R:456:ASN:OD1	2.06	0.56
1:R:357:ILE:HD11	1:R:414:GLN:CG	2.36	0.56
1:R:368:THR:HA	1:R:403:SER:HB2	1.87	0.56
1:S:9:ASN:CB	1:T:209:ASN:CG	2.79	0.56
1:T:336:THR:HG23	1:T:456:ASN:OD1	2.06	0.56
2:U:241:LEU:HB3	4:X:1179:VAL:HG11	1.87	0.56
2:V:164:ASP:HB2	2:V:165:PRO:HD2	1.87	0.56
3:W:838:PRO:O	3:W:860:CYS:HA	2.06	0.56
3:W:1258:MET:HG2	3:W:1259:SER:N	2.19	0.56
4:X:271:VAL:HG12	4:X:288:PHE:HB3	1.87	0.56
4:X:407:ARG:C	4:X:409:MET:H	2.12	0.56
4:X:514:ILE:HD13	4:X:732:VAL:CG1	2.36	0.56
4:X:640:ARG:O	4:X:644:GLU:HB2	2.06	0.56
4:X:872:ALA:CB	4:X:881:VAL:HG21	2.36	0.56
4:Y:81:ARG:HB2	4:Y:85:ASP:OD2	2.05	0.56
4:Y:662:LEU:HD12	4:Y:662:LEU:N	2.21	0.56
4:Y:1178:ARG:O	4:Y:1179:VAL:C	2.48	0.56
1:A:7:SER:O	1:A:8:VAL:C	2.49	0.56
1:A:35:ASP:O	1:A:36:LEU:HD23	2.06	0.56
1:B:213:HIS:CG	1:B:235:LEU:HD23	2.40	0.56
1:B:372:ALA:HB3	1:B:444:LEU:CD1	2.33	0.56
1:B:423:GLN:HG3	1:B:423:GLN:O	2.04	0.56
1:D:280:LEU:HD12	1:D:486:PRO:CG	2.36	0.56
1:E:9:ASN:CB	1:F:209:ASN:CG	2.79	0.56
1:F:357:ILE:HD11	1:F:414:GLN:CG	2.36	0.56
1:F:410:ASN:HD22	1:H:456:ASN:HB3	1.70	0.56
1:F:596:MET:O	1:F:597:LEU:HB2	2.05	0.56
1:H:213:HIS:CG	1:H:235:LEU:HD23	2.40	0.56
1:H:354:SER:CB	1:H:419:MET:HG2	2.35	0.56
1:I:35:ASP:O	1:I:36:LEU:HD23	2.06	0.56
1:J:147:ARG:CB	1:J:147:ARG:HH11	2.18	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:213:HIS:CG	1:J:235:LEU:HD23	2.40	0.56
1:L:138:SER:O	1:L:142:ILE:CG2	2.54	0.56
1:L:280:LEU:HD12	1:L:486:PRO:CG	2.36	0.56
1:L:287:PRO:O	1:L:471:LEU:HD11	2.06	0.56
1:L:360:TYR:C	1:L:360:TYR:CD2	2.83	0.56
1:N:168:THR:C	1:N:170:LEU:H	2.14	0.56
1:P:336:THR:HG23	1:P:456:ASN:OD1	2.06	0.56
2:U:266:TYR:CE2	2:U:300:ILE:HG22	2.40	0.56
3:W:265:SER:O	3:W:268:ASP:HB2	2.04	0.56
3:W:1062:SER:HA	3:W:1071:ILE:O	2.05	0.56
3:W:1138:MET:HE3	3:W:1225:ASP:CB	2.29	0.56
4:X:350:LEU:N	4:X:350:LEU:CD1	2.69	0.56
4:X:360:LEU:O	4:X:361:SER:C	2.49	0.56
4:X:982:LEU:HD12	4:X:1115:VAL:HG11	1.88	0.56
4:X:1076:VAL:HG12	4:X:1078:LEU:HD22	1.88	0.56
4:X:1143:ASN:HD21	4:X:1146:LEU:HD22	1.70	0.56
4:Y:29:THR:HG22	4:Y:68:PRO:O	2.06	0.56
4:Y:398:ILE:O	4:Y:401:THR:HB	2.05	0.56
1:B:525:ILE:HG23	1:B:526:PRO:HD2	1.86	0.56
1:B:561:ASP:O	1:B:562:TYR:HB2	2.04	0.56
1:D:47:LEU:CD2	1:D:64:VAL:HG11	2.36	0.56
1:D:289:LEU:CD2	1:F:515:ASN:ND2	2.68	0.56
1:D:423:GLN:HG3	1:D:423:GLN:O	2.04	0.56
1:E:26:MET:O	1:F:216:PRO:HG3	2.05	0.56
1:E:28:SER:CB	1:F:215:TYR:HA	2.36	0.56
5:E:649:MYR:C2	1:F:191:LYS:HZ3	1.96	0.56
1:F:94:PRO:HG2	1:F:210:VAL:HG22	1.87	0.56
1:F:280:LEU:HD12	1:F:486:PRO:CG	2.36	0.56
1:F:341:MET:HB2	1:F:431:ILE:HD13	1.88	0.56
1:F:443:PHE:HB2	1:F:457:PRO:CB	2.24	0.56
1:G:28:SER:CB	1:H:215:TYR:HA	2.36	0.56
1:H:336:THR:HG23	1:H:456:ASN:OD1	2.06	0.56
1:H:357:ILE:HD11	1:H:414:GLN:CG	2.36	0.56
1:H:382:ILE:HA	1:H:385:VAL:CG1	2.34	0.56
1:J:212:ILE:CD1	1:J:220:PRO:HB3	2.36	0.56
1:L:354:SER:CB	1:L:419:MET:HG2	2.35	0.56
1:M:9:ASN:CB	1:N:209:ASN:CG	2.79	0.56
1:P:212:ILE:CD1	1:P:220:PRO:HB3	2.36	0.56
1:T:427:GLU:HB2	1:T:430:THR:HG23	1.87	0.56
2:V:187:GLN:HE22	4:Y:436:LEU:HD12	1.71	0.56
3:W:1013:ILE:O	3:W:1017:ILE:HG13	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:329:MET:HG3	4:X:370:ARG:CZ	2.36	0.56
4:X:459:LEU:HB3	4:X:807:PHE:HZ	1.71	0.56
4:X:706:ALA:O	4:X:709:ILE:HG22	2.06	0.56
4:Y:37:THR:HG22	4:Y:38:SER:N	2.20	0.56
1:B:354:SER:HB2	1:B:419:MET:CA	2.35	0.55
1:B:357:ILE:HD11	1:B:414:GLN:CG	2.36	0.55
1:D:450:SER:O	1:D:453:ASN:HB2	2.05	0.55
1:F:287:PRO:O	1:F:471:LEU:HD11	2.06	0.55
1:F:357:ILE:CG2	1:F:359:PRO:HD3	2.36	0.55
1:F:610:THR:O	1:F:612:SER:N	2.39	0.55
1:H:268:GLY:O	1:H:269:LYS:C	2.49	0.55
1:H:610:THR:O	1:H:612:SER:N	2.39	0.55
1:I:7:SER:O	1:I:8:VAL:C	2.49	0.55
1:J:412:ARG:NH2	1:L:356:THR:CG2	2.63	0.55
1:N:167:MET:HG2	1:N:215:TYR:CE1	2.42	0.55
1:N:280:LEU:HD12	1:N:486:PRO:CG	2.36	0.55
1:O:28:SER:CB	1:P:215:TYR:HA	2.36	0.55
1:P:82:PHE:HZ	1:T:238:VAL:CG1	2.19	0.55
1:P:147:ARG:CB	1:P:147:ARG:HH11	2.18	0.55
1:P:382:ILE:HA	1:P:385:VAL:CG1	2.34	0.55
1:T:287:PRO:O	1:T:471:LEU:HD11	2.05	0.55
2:U:26:LEU:O	2:U:26:LEU:HD23	2.06	0.55
3:W:934:ASN:CB	3:W:1023:THR:HG22	2.36	0.55
3:W:1281:ALA:HB3	3:W:1284:TYR:HD2	1.70	0.55
4:X:411:GLN:HB2	4:X:416:ILE:HG23	1.88	0.55
4:X:721:VAL:HG12	4:X:722:ASN:O	2.05	0.55
4:X:763:VAL:O	4:X:763:VAL:HG22	2.06	0.55
4:X:1078:LEU:N	4:X:1078:LEU:CD2	2.69	0.55
4:X:1149:THR:HB	4:X:1162:ALA:HB3	1.88	0.55
4:Y:1037:VAL:HG11	4:Y:1039:ARG:NH2	2.20	0.55
1:B:271:LEU:HG	1:B:517:LEU:CB	2.30	0.55
1:D:298:PHE:HE1	1:H:416:ARG:CB	2.16	0.55
1:G:7:SER:O	1:G:8:VAL:C	2.49	0.55
1:H:212:ILE:CD1	1:H:220:PRO:HB3	2.37	0.55
1:H:287:PRO:HB3	1:H:509:LEU:CD2	2.32	0.55
1:I:28:SER:CB	1:J:215:TYR:HA	2.36	0.55
1:K:26:MET:O	1:L:216:PRO:HG3	2.05	0.55
1:L:238:VAL:CG1	1:N:82:PHE:HZ	2.19	0.55
1:L:357:ILE:HD11	1:L:414:GLN:CG	2.36	0.55
1:L:443:PHE:HB2	1:L:457:PRO:CB	2.24	0.55
1:L:596:MET:O	1:L:597:LEU:HB2	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:610:THR:O	1:N:612:SER:N	2.39	0.55
1:R:147:ARG:CB	1:R:147:ARG:HH11	2.18	0.55
1:R:369:SER:HB3	1:R:445:ILE:HA	1.86	0.55
1:T:354:SER:HB2	1:T:419:MET:CA	2.35	0.55
2:U:365:THR:C	2:U:367:GLU:H	2.15	0.55
2:V:42:SER:OG	4:X:1025:ASN:ND2	2.39	0.55
3:W:5:PHE:CZ	3:W:346:PRO:HB3	2.42	0.55
3:W:817:SER:HB3	3:W:1000:TYR:CD2	2.41	0.55
4:X:278:LEU:HD12	4:X:900:GLU:OE1	2.06	0.55
4:X:788:VAL:HG22	4:X:789:ASP:N	2.22	0.55
4:Y:207:LEU:HD22	4:Y:244:VAL:HB	1.88	0.55
4:Y:474:GLU:HA	4:Y:477:SER:HB3	1.88	0.55
4:Y:1136:ALA:O	4:Y:1137:PHE:HB3	2.06	0.55
1:B:262:ALA:HB1	1:B:520:VAL:HG13	1.89	0.55
1:D:238:VAL:CG1	1:F:82:PHE:HZ	2.19	0.55
1:F:44:THR:HG22	1:F:45:GLY:H	1.72	0.55
1:F:358:LEU:CB	1:F:417:PHE:CE2	2.90	0.55
1:H:168:THR:C	1:H:170:LEU:H	2.14	0.55
1:I:26:MET:O	1:J:216:PRO:HG3	2.05	0.55
1:J:167:MET:HG2	1:J:215:TYR:CE1	2.41	0.55
1:J:168:THR:C	1:J:170:LEU:H	2.14	0.55
1:J:368:THR:HA	1:J:403:SER:HB2	1.87	0.55
1:K:28:SER:CB	1:L:215:TYR:HA	2.36	0.55
1:L:67:ARG:HH11	1:L:67:ARG:HG3	1.72	0.55
1:L:336:THR:HG23	1:L:456:ASN:OD1	2.06	0.55
1:L:358:LEU:CB	1:L:417:PHE:CE2	2.90	0.55
1:P:167:MET:HG2	1:P:215:TYR:CE1	2.42	0.55
1:R:347:SER:HA	1:R:469:VAL:HG12	1.86	0.55
1:R:360:TYR:C	1:R:360:TYR:CD2	2.83	0.55
1:T:357:ILE:HD11	1:T:414:GLN:CG	2.36	0.55
1:T:372:ALA:HB3	1:T:444:LEU:CD1	2.33	0.55
2:U:40:ARG:HH22	2:U:69:ASN:HD21	1.53	0.55
2:U:64:ARG:HG2	2:U:64:ARG:HH11	1.71	0.55
2:V:43:HIS:CB	4:X:1027:LEU:HD11	2.35	0.55
3:W:250:TYR:O	3:W:334:ARG:HG3	2.06	0.55
3:W:1096:PHE:HD2	3:W:1096:PHE:N	2.00	0.55
4:X:371:LEU:HD11	4:X:388:MET:HG3	1.88	0.55
4:X:396:LEU:HD11	4:X:1194:LEU:HB2	1.87	0.55
4:X:889:ARG:HG3	4:X:890:GLN:N	2.19	0.55
4:X:1015:GLY:CA	4:X:1034:ASP:HA	2.36	0.55
4:X:1019:THR:HG21	4:Y:429:ASN:ND2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:893:VAL:HG13	4:Y:897:ALA:HB3	1.88	0.55
4:Y:1154:ILE:O	4:Y:1155:ASP:HB3	2.06	0.55
1:B:147:ARG:CB	1:B:147:ARG:HH11	2.18	0.55
1:B:248:GLU:N	1:B:248:GLU:CD	2.64	0.55
1:B:304:ALA:O	1:B:307:ILE:HG22	2.07	0.55
1:C:7:SER:O	1:C:8:VAL:C	2.49	0.55
1:D:212:ILE:CD1	1:D:220:PRO:HB3	2.36	0.55
1:F:212:ILE:CD1	1:F:220:PRO:HB3	2.37	0.55
1:F:248:GLU:CD	1:F:248:GLU:N	2.64	0.55
1:F:304:ALA:O	1:F:307:ILE:HG22	2.07	0.55
1:F:336:THR:HG23	1:F:456:ASN:OD1	2.06	0.55
1:F:354:SER:HB2	1:F:419:MET:CA	2.35	0.55
1:J:610:THR:O	1:J:612:SER:N	2.39	0.55
1:N:268:GLY:O	1:N:269:LYS:C	2.49	0.55
1:O:35:ASP:O	1:O:36:LEU:HD23	2.06	0.55
1:P:44:THR:HG22	1:P:45:GLY:H	1.72	0.55
1:P:341:MET:CB	1:P:437:ILE:HG23	2.29	0.55
1:Q:7:SER:O	1:Q:8:VAL:C	2.49	0.55
1:R:167:MET:HG2	1:R:215:TYR:CE1	2.42	0.55
1:R:238:VAL:CG1	1:T:82:PHE:HZ	2.19	0.55
1:T:525:ILE:HG23	1:T:526:PRO:HD2	1.86	0.55
2:U:79:PHE:HB2	2:U:120:LEU:HD22	1.88	0.55
2:U:198:GLN:CD	4:X:661:THR:CG2	2.78	0.55
2:V:140:GLN:HE22	2:V:144:ILE:HD11	1.70	0.55
3:W:49:PHE:CE2	3:W:54:ARG:HA	2.41	0.55
3:W:68:TRP:HB2	3:W:123:GLY:HA2	1.88	0.55
4:X:347:ARG:HG3	4:X:368:ILE:HD11	1.87	0.55
4:X:481:ARG:HD3	4:X:529:TRP:CD1	2.41	0.55
4:X:580:HIS:O	4:X:581:SER:C	2.47	0.55
4:X:785:VAL:HG12	4:X:786:ALA:N	2.22	0.55
4:X:931:ILE:CG1	4:Y:689:VAL:HG11	2.36	0.55
4:X:1054:VAL:HG21	4:Y:1212:SER:HB3	1.87	0.55
4:Y:390:LEU:HA	4:Y:1191:TYR:HA	1.88	0.55
4:Y:815:PRO:HG2	4:Y:816:ALA:H	1.72	0.55
1:D:346:ASP:HB3	1:D:428:ARG:N	2.15	0.55
1:H:49:ARG:NH1	1:H:115:THR:HG22	2.18	0.55
1:H:262:ALA:HB1	1:H:520:VAL:HG13	1.89	0.55
1:J:80:GLU:O	1:J:84:LYS:HB2	2.07	0.55
1:J:280:LEU:HD12	1:J:486:PRO:CG	2.36	0.55
1:K:13:ILE:HG23	1:K:14:THR:N	2.20	0.55
1:N:341:MET:HB2	1:N:431:ILE:HD13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:358:LEU:CB	1:N:417:PHE:CE2	2.90	0.55
1:P:357:ILE:HD11	1:P:414:GLN:CG	2.36	0.55
1:P:545:VAL:CG2	1:R:641:ILE:CD1	2.85	0.55
1:R:304:ALA:O	1:R:307:ILE:HG22	2.07	0.55
1:R:341:MET:HB2	1:R:431:ILE:HD13	1.88	0.55
1:R:471:LEU:HD23	1:R:471:LEU:H	1.72	0.55
1:T:341:MET:HB2	1:T:431:ILE:HD13	1.88	0.55
2:U:41:PHE:CD1	4:X:404:MET:HE1	2.40	0.55
2:U:178:THR:HG21	4:X:376:LEU:CD2	2.16	0.55
2:U:337:ARG:HH11	2:U:337:ARG:HG3	1.70	0.55
3:W:580:ALA:HB3	3:W:618:LEU:HA	1.87	0.55
3:W:708:LEU:CD2	3:W:764:THR:HG22	2.37	0.55
4:X:325:THR:CG2	4:X:347:ARG:HG2	2.36	0.55
4:X:1020:ILE:HD12	4:X:1062:TYR:CD2	2.42	0.55
4:Y:29:THR:HG22	4:Y:68:PRO:HB2	1.87	0.55
4:Y:122:CYS:SG	4:Y:135:HIS:CE1	3.00	0.55
4:Y:1085:LEU:H	4:Y:1085:LEU:HD12	1.72	0.55
1:B:610:THR:O	1:B:612:SER:N	2.39	0.55
1:F:67:ARG:HH11	1:F:67:ARG:HG3	1.72	0.55
1:F:80:GLU:O	1:F:84:LYS:HB2	2.07	0.55
1:F:543:LEU:HD21	1:F:590:VAL:HG13	1.89	0.55
1:J:357:ILE:HD11	1:J:414:GLN:CG	2.36	0.55
1:J:612:SER:O	1:K:32:PRO:HA	2.07	0.55
1:L:289:LEU:CD2	1:N:515:ASN:ND2	2.68	0.55
1:L:368:THR:HA	1:L:403:SER:HB2	1.87	0.55
1:L:545:VAL:CG2	1:N:641:ILE:CD1	2.85	0.55
1:N:357:ILE:CG2	1:N:359:PRO:HD3	2.36	0.55
1:P:617:VAL:HG21	1:R:158:LEU:HD21	1.87	0.55
1:R:44:THR:HG22	1:R:45:GLY:H	1.72	0.55
1:R:212:ILE:CD1	1:R:220:PRO:HB3	2.37	0.55
1:R:280:LEU:HD12	1:R:486:PRO:CG	2.36	0.55
1:R:354:SER:HB2	1:R:419:MET:CA	2.35	0.55
1:T:168:THR:C	1:T:170:LEU:H	2.14	0.55
1:T:212:ILE:CD1	1:T:220:PRO:HB3	2.36	0.55
3:W:1037:VAL:HG12	3:W:1039:PRO:CD	2.28	0.55
4:X:428:LEU:HD21	4:X:842:ALA:HA	1.89	0.55
4:X:580:HIS:NE2	4:X:616:SER:O	2.40	0.55
4:X:743:THR:HG21	4:X:822:MET:HA	1.89	0.55
1:B:341:MET:HB2	1:B:431:ILE:HD13	1.88	0.55
1:B:368:THR:HA	1:B:403:SER:HB2	1.87	0.55
1:B:543:LEU:HD21	1:B:590:VAL:HG13	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:41:LEU:O	1:C:42:ASN:CB	2.37	0.55
1:D:74:VAL:O	1:D:74:VAL:HG12	2.04	0.55
1:D:167:MET:HG2	1:D:215:TYR:CE1	2.42	0.55
1:F:168:THR:C	1:F:170:LEU:H	2.14	0.55
1:H:167:MET:HG2	1:H:215:TYR:CE1	2.42	0.55
1:H:526:PRO:HG2	1:H:533:ASP:HB3	1.89	0.55
1:I:20:PHE:CE2	1:I:22:PRO:HD3	2.42	0.55
5:I:649:MYR:H142	5:I:649:MYR:C10	2.10	0.55
1:J:82:PHE:HZ	1:N:238:VAL:CG1	2.19	0.55
1:J:154:ARG:NH1	1:J:154:ARG:CB	2.68	0.55
1:J:304:ALA:O	1:J:307:ILE:HG22	2.07	0.55
1:J:545:VAL:CG2	1:L:641:ILE:CD1	2.85	0.55
1:K:41:LEU:O	1:K:42:ASN:CB	2.37	0.55
1:L:610:THR:O	1:L:612:SER:N	2.39	0.55
1:P:238:VAL:CG2	1:R:78:MET:HE1	2.07	0.55
1:P:289:LEU:CD2	1:R:515:ASN:ND2	2.68	0.55
1:P:641:ILE:CD1	1:T:545:VAL:CG2	2.85	0.55
1:R:610:THR:O	1:R:612:SER:N	2.39	0.55
1:T:44:THR:HG22	1:T:45:GLY:H	1.72	0.55
1:T:271:LEU:HG	1:T:517:LEU:CB	2.30	0.55
1:T:543:LEU:HD21	1:T:590:VAL:HG13	1.89	0.55
2:U:214:ILE:HA	2:U:223:LEU:CD1	2.37	0.55
2:U:239:PRO:O	2:U:240:ALA:HB2	2.07	0.55
2:V:192:PHE:CA	4:Y:376:LEU:CD2	2.85	0.55
4:X:429:ASN:ND2	4:X:429:ASN:H	2.05	0.55
4:X:603:VAL:CG1	4:Y:715:VAL:CG1	2.73	0.55
4:X:650:TRP:HB3	4:X:773:ARG:HD3	1.89	0.55
4:X:1096:GLU:HG3	4:X:1118:CYS:HB2	1.88	0.55
4:Y:266:PRO:HA	4:Y:976:ASN:HD21	1.72	0.55
4:Y:410:HIS:CD2	4:Y:411:GLN:H	2.21	0.55
4:Y:835:HIS:HE1	4:Y:1212:SER:HA	1.72	0.55
1:B:80:GLU:O	1:B:84:LYS:HB2	2.07	0.55
1:B:268:GLY:O	1:B:269:LYS:C	2.49	0.55
1:B:336:THR:HG23	1:B:456:ASN:OD1	2.06	0.55
1:C:32:PRO:HA	1:H:612:SER:O	2.07	0.55
1:D:58:ILE:HD11	1:D:127:LEU:CD2	2.37	0.55
1:D:358:LEU:CB	1:D:417:PHE:CE2	2.90	0.55
1:D:545:VAL:CG2	1:F:641:ILE:CD1	2.85	0.55
1:E:7:SER:O	1:E:8:VAL:C	2.49	0.55
1:E:35:ASP:O	1:E:36:LEU:HD23	2.06	0.55
1:F:49:ARG:NH1	1:F:115:THR:HG22	2.18	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:531:THR:O	1:H:532:ASP:C	2.50	0.55
1:J:237:GLU:OE1	1:L:46:LYS:NZ	2.38	0.55
1:J:412:ARG:HH22	1:L:356:THR:HG23	1.65	0.55
1:L:427:GLU:HB2	1:L:430:THR:HG23	1.87	0.55
1:M:20:PHE:CE2	1:M:22:PRO:HD3	2.42	0.55
1:N:49:ARG:NH1	1:N:115:THR:HG22	2.18	0.55
1:P:67:ARG:HG3	1:P:67:ARG:HH11	1.72	0.55
1:P:262:ALA:HB1	1:P:520:VAL:HG13	1.89	0.55
1:R:87:PHE:HD1	1:T:121:ALA:HB2	1.61	0.55
1:R:416:ARG:CB	1:T:298:PHE:HE1	2.16	0.55
3:W:79:LEU:HB2	3:W:83:ASP:OD1	2.07	0.55
3:W:263:VAL:HG12	3:W:267:MET:HE3	1.88	0.55
3:W:409:ILE:CG2	3:W:414:ALA:HB2	2.36	0.55
3:W:418:TYR:CD1	3:W:418:TYR:C	2.85	0.55
3:W:521:ALA:CB	3:W:531:PRO:HD3	2.37	0.55
3:W:620:VAL:HG21	3:W:627:PHE:CZ	2.42	0.55
3:W:645:VAL:O	3:W:647:PRO:CD	2.47	0.55
3:W:679:LEU:HD22	3:W:1068:VAL:CG1	2.36	0.55
3:W:993:PRO:HA	3:W:1017:ILE:CD1	2.36	0.55
4:X:325:THR:OG1	4:X:328:ARG:HB2	2.07	0.55
4:X:417:VAL:HG13	4:X:418:GLN:N	2.19	0.55
4:X:524:ASP:O	4:X:526:ALA:N	2.39	0.55
4:X:580:HIS:C	4:X:582:PRO:HD2	2.31	0.55
4:X:789:ASP:HB3	4:X:933:ASP:CB	2.37	0.55
4:X:1054:VAL:HG11	4:Y:835:HIS:CE1	2.42	0.55
4:Y:126:PHE:CD2	4:Y:132:LEU:HA	2.41	0.55
4:Y:207:LEU:HD21	4:Y:265:PRO:HB3	1.87	0.55
1:A:28:SER:CB	1:B:215:TYR:HA	2.36	0.55
1:B:471:LEU:HD23	1:B:471:LEU:H	1.72	0.55
1:D:410:ASN:HD22	1:F:456:ASN:HB3	1.70	0.55
1:F:526:PRO:HG2	1:F:533:ASP:HB3	1.89	0.55
1:G:20:PHE:CE2	1:G:22:PRO:HD3	2.42	0.55
1:H:44:THR:HG22	1:H:45:GLY:H	1.72	0.55
1:H:358:LEU:CB	1:H:417:PHE:CE2	2.90	0.55
1:J:358:LEU:CB	1:J:417:PHE:CE2	2.90	0.55
1:L:147:ARG:CB	1:L:147:ARG:HH11	2.18	0.55
1:L:212:ILE:CD1	1:L:220:PRO:HB3	2.37	0.55
1:L:304:ALA:O	1:L:307:ILE:HG22	2.07	0.55
1:N:526:PRO:HG2	1:N:533:ASP:HB3	1.89	0.55
1:P:268:GLY:O	1:P:269:LYS:C	2.49	0.55
1:P:304:ALA:O	1:P:307:ILE:HG22	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:357:ILE:CG2	1:P:359:PRO:HD3	2.36	0.55
1:P:543:LEU:HD21	1:P:590:VAL:HG13	1.89	0.55
1:P:612:SER:O	1:Q:32:PRO:HA	2.07	0.55
1:Q:28:SER:CB	1:R:215:TYR:HA	2.36	0.55
1:R:545:VAL:CG2	1:T:641:ILE:CD1	2.85	0.55
2:U:342:ARG:HD2	2:U:342:ARG:O	2.07	0.55
3:W:241:LEU:C	3:W:241:LEU:HD23	2.31	0.55
3:W:641:THR:H	3:W:660:GLY:HA3	1.72	0.55
3:W:918:ILE:O	3:W:922:VAL:HG23	2.06	0.55
4:X:705:ILE:CG2	4:X:737:ARG:HB3	2.32	0.55
4:X:827:THR:HG21	4:X:831:LEU:HD23	1.87	0.55
4:X:1052:LEU:O	4:X:1056:VAL:HG23	2.06	0.55
4:Y:71:SER:O	4:Y:79:ILE:HG22	2.06	0.55
4:Y:259:LEU:HD11	4:Y:303:GLN:CG	2.28	0.55
4:Y:400:GLU:HG2	4:Y:400:GLU:O	2.05	0.55
4:Y:668:LEU:HD12	4:Y:767:PHE:CE1	2.42	0.55
4:Y:1021:VAL:HG22	4:Y:1030:GLN:O	2.07	0.55
4:Y:1210:VAL:HG22	4:Y:1211:ARG:N	2.18	0.55
1:A:20:PHE:CE2	1:A:22:PRO:HD3	2.42	0.55
1:D:49:ARG:NH2	1:D:115:THR:CG2	2.70	0.55
1:D:141:GLN:C	1:D:143:MET:N	2.63	0.55
1:D:262:ALA:HB1	1:D:520:VAL:HG13	1.89	0.55
1:F:262:ALA:HB1	1:F:520:VAL:HG13	1.89	0.55
1:F:531:THR:O	1:F:532:ASP:C	2.50	0.55
1:L:167:MET:HG2	1:L:215:TYR:CE1	2.42	0.55
1:N:357:ILE:HD11	1:N:414:GLN:CG	2.36	0.55
1:N:471:LEU:HD23	1:N:471:LEU:H	1.72	0.55
1:N:543:LEU:HD21	1:N:590:VAL:HG13	1.89	0.55
1:O:26:MET:O	1:O:27:THR:C	2.50	0.55
1:P:168:THR:C	1:P:170:LEU:H	2.14	0.55
1:P:341:MET:HB2	1:P:431:ILE:HD13	1.89	0.55
1:P:358:LEU:CB	1:P:417:PHE:CE2	2.90	0.55
1:R:268:GLY:O	1:R:269:LYS:C	2.49	0.55
3:W:81:TYR:HA	3:W:180:LEU:CD2	2.36	0.55
3:W:259:ALA:HB2	3:W:304:LEU:HB2	1.89	0.55
3:W:303:LEU:C	3:W:303:LEU:HD13	2.32	0.55
3:W:554:PHE:CZ	3:W:572:THR:HG21	2.41	0.55
3:W:805:VAL:CG1	3:W:1006:SER:HB3	2.36	0.55
3:W:916:GLN:HG2	3:W:916:GLN:O	2.06	0.55
4:X:196:GLU:CD	4:X:313:LYS:HD2	2.31	0.55
4:X:201:CYS:HB2	4:X:399:ARG:CZ	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:441:LEU:HD23	4:X:443:PRO:HD3	1.88	0.55
4:X:795:ASP:OD1	4:X:798:VAL:HG21	2.07	0.55
4:Y:1015:GLY:HA3	4:Y:1034:ASP:HA	1.88	0.55
1:B:280:LEU:HD12	1:B:486:PRO:CG	2.36	0.54
1:D:87:PHE:HD1	1:F:121:ALA:HB2	1.61	0.54
1:E:20:PHE:CE2	1:E:22:PRO:HD3	2.42	0.54
1:F:238:VAL:CG1	1:H:82:PHE:HZ	2.19	0.54
1:F:272:ASP:O	1:F:273:LEU:CD2	2.56	0.54
1:J:471:LEU:HD23	1:J:471:LEU:H	1.72	0.54
1:L:262:ALA:HB1	1:L:520:VAL:HG13	1.89	0.54
1:N:80:GLU:O	1:N:84:LYS:HB2	2.07	0.54
1:N:531:THR:O	1:N:532:ASP:C	2.50	0.54
1:P:238:VAL:CG1	1:R:82:PHE:HZ	2.19	0.54
5:Q:649:MYR:H71	1:R:200:CYS:SG	2.45	0.54
1:R:531:THR:O	1:R:532:ASP:C	2.50	0.54
1:R:596:MET:O	1:R:597:LEU:HB2	2.05	0.54
1:T:167:MET:HG2	1:T:215:TYR:CE1	2.41	0.54
1:T:341:MET:CB	1:T:437:ILE:HG23	2.29	0.54
2:U:263:GLN:HA	2:U:263:GLN:NE2	2.22	0.54
3:W:224:PRO:CG	3:W:244:THR:HG22	2.37	0.54
3:W:423:LEU:HD23	3:W:426:LEU:HD13	1.88	0.54
4:X:206:LEU:H	4:X:206:LEU:CD2	2.15	0.54
4:X:843:PRO:HG2	4:X:844:LEU:H	1.71	0.54
4:X:892:ASP:OD2	4:X:897:ALA:HB2	2.06	0.54
4:X:1011:VAL:O	4:X:1011:VAL:HG12	2.07	0.54
4:X:1125:TYR:HB2	4:X:1126:PRO:HD2	1.89	0.54
4:X:1156:THR:HG21	4:X:1161:ASN:N	2.22	0.54
4:X:1182:ASN:CG	4:X:1182:ASN:O	2.50	0.54
4:Y:40:ASN:HB3	4:Y:66:SER:CB	2.33	0.54
4:Y:294:ARG:HB3	4:Y:890:GLN:HB2	1.89	0.54
1:A:26:MET:O	1:A:27:THR:C	2.50	0.54
1:B:287:PRO:O	1:B:471:LEU:HD11	2.05	0.54
1:D:272:ASP:O	1:D:273:LEU:CD2	2.56	0.54
1:D:304:ALA:O	1:D:307:ILE:HG22	2.07	0.54
1:D:368:THR:C	1:D:403:SER:HB2	2.33	0.54
1:D:612:SER:O	1:E:32:PRO:HA	2.07	0.54
1:F:167:MET:HG2	1:F:215:TYR:CE1	2.42	0.54
1:H:280:LEU:HD12	1:H:486:PRO:CG	2.36	0.54
1:N:304:ALA:O	1:N:307:ILE:HG22	2.07	0.54
1:O:20:PHE:CE2	1:O:22:PRO:HD3	2.42	0.54
1:P:80:GLU:O	1:P:84:LYS:HB2	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:272:ASP:O	1:R:273:LEU:CD2	2.56	0.54
1:T:67:ARG:HH11	1:T:67:ARG:HG3	1.72	0.54
1:T:350:THR:HG22	1:T:465:THR:O	2.07	0.54
1:T:526:PRO:HG2	1:T:533:ASP:HB3	1.89	0.54
2:U:178:THR:CB	4:X:376:LEU:CD2	2.84	0.54
2:U:248:LEU:HD12	2:U:249:LYS:H	1.72	0.54
2:V:64:ARG:NH2	4:X:1027:LEU:HD13	2.23	0.54
2:V:182:ILE:O	2:V:182:ILE:HD13	2.07	0.54
3:W:466:ASP:H	3:W:470:MET:HG3	1.71	0.54
3:W:603:LEU:HD23	3:W:603:LEU:C	2.32	0.54
3:W:1060:VAL:HG23	3:W:1113:THR:O	2.06	0.54
4:X:202:THR:HA	4:X:392:ASP:OD1	2.08	0.54
4:X:476:LEU:HD13	4:X:480:LEU:HD23	1.89	0.54
4:Y:655:GLU:HB2	4:Y:675:MET:O	2.07	0.54
1:B:67:ARG:HH11	1:B:67:ARG:HG3	1.72	0.54
1:B:360:TYR:C	1:B:360:TYR:CD2	2.83	0.54
1:D:58:ILE:O	1:D:59:ASP:CB	2.56	0.54
1:D:82:PHE:HZ	1:H:238:VAL:CG1	2.19	0.54
1:F:545:VAL:CG2	1:H:641:ILE:CD1	2.85	0.54
1:H:272:ASP:O	1:H:273:LEU:CD2	2.56	0.54
1:H:368:THR:C	1:H:403:SER:HB2	2.33	0.54
1:J:371:PRO:HB3	1:J:459:LEU:HD11	1.90	0.54
1:L:178:SER:CB	1:Q:3:ASN:HD22	2.17	0.54
1:N:212:ILE:CD1	1:N:220:PRO:HB3	2.36	0.54
1:N:368:THR:C	1:N:403:SER:HB2	2.33	0.54
1:O:7:SER:O	1:O:8:VAL:C	2.49	0.54
1:P:141:GLN:C	1:P:143:MET:N	2.63	0.54
1:P:272:ASP:O	1:P:273:LEU:CD2	2.56	0.54
1:P:526:PRO:HG2	1:P:533:ASP:HB3	1.89	0.54
1:P:610:THR:O	1:P:612:SER:N	2.39	0.54
1:Q:13:ILE:HG23	1:Q:14:THR:N	2.20	0.54
1:R:80:GLU:O	1:R:84:LYS:HB2	2.07	0.54
1:S:20:PHE:CE2	1:S:22:PRO:HD3	2.42	0.54
1:T:141:GLN:C	1:T:143:MET:N	2.63	0.54
1:T:371:PRO:HB3	1:T:459:LEU:HD11	1.90	0.54
1:T:531:THR:O	1:T:532:ASP:C	2.50	0.54
2:U:26:LEU:HD21	2:U:100:LEU:HD12	1.89	0.54
2:V:175:MET:CE	4:Y:400:GLU:OE2	2.56	0.54
3:W:66:ASN:O	3:W:174:GLY:HA3	2.07	0.54
3:W:995:CYS:HA	3:W:997:TRP:CZ3	2.42	0.54
3:W:1101:THR:O	3:W:1101:THR:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:425:ASN:C	4:X:427:LEU:H	2.16	0.54
4:X:681:ASN:HD22	4:X:752:PRO:HG2	1.72	0.54
4:X:985:VAL:HG22	4:X:1137:PHE:HE2	1.72	0.54
4:Y:202:THR:HG21	4:Y:390:LEU:CD1	2.37	0.54
4:Y:231:MET:CE	4:Y:347:ARG:NH1	2.69	0.54
4:Y:312:ASN:HB3	4:Y:1196:ARG:NH1	2.22	0.54
4:Y:775:VAL:O	4:Y:775:VAL:HG12	2.06	0.54
1:B:272:ASP:O	1:B:273:LEU:CD2	2.56	0.54
1:B:368:THR:C	1:B:403:SER:HB2	2.33	0.54
1:D:80:GLU:O	1:D:84:LYS:HB2	2.07	0.54
1:D:641:ILE:CD1	1:H:545:VAL:CG2	2.85	0.54
1:F:152:ARG:HH11	1:F:152:ARG:CA	2.21	0.54
1:I:32:PRO:HA	1:N:612:SER:O	2.07	0.54
1:J:67:ARG:HH11	1:J:67:ARG:HG3	1.72	0.54
1:J:268:GLY:O	1:J:269:LYS:C	2.49	0.54
1:J:272:ASP:O	1:J:273:LEU:CD2	2.56	0.54
1:L:154:ARG:NH1	1:L:154:ARG:CB	2.68	0.54
1:N:262:ALA:HB1	1:N:520:VAL:HG13	1.89	0.54
1:N:287:PRO:O	1:N:471:LEU:HD11	2.05	0.54
1:O:32:PRO:HA	1:T:612:SER:O	2.07	0.54
1:P:199:LEU:HD11	1:P:203:TYR:HE2	1.73	0.54
1:P:371:PRO:HB3	1:P:459:LEU:HD11	1.90	0.54
1:Q:20:PHE:CE2	1:Q:22:PRO:HD3	2.42	0.54
1:R:346:ASP:HB3	1:R:428:ARG:N	2.15	0.54
1:R:543:LEU:HD21	1:R:590:VAL:HG13	1.89	0.54
1:T:304:ALA:O	1:T:307:ILE:HG22	2.07	0.54
1:T:358:LEU:CB	1:T:417:PHE:CE2	2.90	0.54
1:T:491:ALA:HB2	1:T:592:THR:CB	2.32	0.54
2:U:241:LEU:HA	4:X:1179:VAL:CG1	2.37	0.54
2:V:9:LEU:HD23	2:V:119:LEU:HD23	1.88	0.54
3:W:432:PHE:CG	3:W:481:ALA:HB2	2.43	0.54
3:W:558:VAL:HG22	3:W:561:GLY:H	1.71	0.54
3:W:651:ASN:HB2	3:W:688:ILE:HG21	1.88	0.54
3:W:896:ILE:O	3:W:897:PHE:HB2	2.07	0.54
4:X:377:ILE:HD11	4:X:436:LEU:HG	1.88	0.54
4:X:476:LEU:CD1	4:X:533:ALA:HA	2.37	0.54
4:X:837:TYR:C	4:X:839:LYS:N	2.62	0.54
4:Y:83:THR:O	4:Y:87:ILE:HG13	2.07	0.54
4:Y:197:ASP:HA	4:Y:253:GLY:HA3	1.88	0.54
4:Y:479:LEU:HB3	4:Y:758:LEU:CD1	2.35	0.54
1:B:44:THR:HG22	1:B:45:GLY:H	1.72	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:167:MET:HG2	1:B:215:TYR:CE1	2.42	0.54
1:B:300:LYS:HB2	1:B:303:ASP:OD2	2.08	0.54
1:D:56:ALA:HB1	1:D:61:LEU:CG	2.38	0.54
1:D:199:LEU:HD11	1:D:203:TYR:HE2	1.73	0.54
1:F:373:PHE:HD2	1:F:397:VAL:CG1	2.21	0.54
1:H:80:GLU:O	1:H:84:LYS:HB2	2.07	0.54
1:H:354:SER:HB2	1:H:419:MET:CA	2.35	0.54
1:H:373:PHE:HD2	1:H:397:VAL:CG1	2.21	0.54
1:L:416:ARG:CB	1:N:298:PHE:HE1	2.16	0.54
1:N:272:ASP:O	1:N:273:LEU:CD2	2.56	0.54
1:N:346:ASP:HB3	1:N:428:ARG:N	2.15	0.54
1:N:360:TYR:CD2	1:N:360:TYR:C	2.83	0.54
1:P:273:LEU:HA	1:R:630:LEU:HD11	1.90	0.54
1:P:350:THR:HG22	1:P:465:THR:O	2.07	0.54
1:Q:35:ASP:O	1:Q:36:LEU:HD23	2.06	0.54
1:T:272:ASP:O	1:T:273:LEU:CD2	2.56	0.54
3:W:329:THR:HG23	3:W:332:ASP:H	1.73	0.54
3:W:470:MET:HG2	3:W:473:ARG:HH21	1.71	0.54
3:W:625:ARG:HH11	3:W:625:ARG:CG	2.17	0.54
3:W:799:LEU:HD22	3:W:799:LEU:H	1.73	0.54
3:W:1038:ASN:HB2	3:W:1049:ALA:HB3	1.88	0.54
4:X:392:ASP:HB2	4:X:1188:ILE:HG22	1.90	0.54
4:X:622:PRO:O	4:X:626:LEU:HD22	2.07	0.54
4:X:751:CYS:HB3	4:X:752:PRO:HD3	1.88	0.54
4:X:784:LEU:HD21	4:X:801:ARG:HA	1.88	0.54
4:Y:126:PHE:CZ	4:Y:135:HIS:HB2	2.43	0.54
4:Y:208:ASP:HA	4:Y:241:ASN:HA	1.89	0.54
4:Y:390:LEU:HD12	4:Y:390:LEU:C	2.32	0.54
4:Y:455:GLN:OE1	4:Y:455:GLN:HA	2.08	0.54
4:Y:799:ASP:OD1	4:Y:801:ARG:HD2	2.08	0.54
4:Y:1064:TRP:CH2	4:Y:1100:LEU:HD13	2.42	0.54
1:B:350:THR:HG22	1:B:465:THR:O	2.07	0.54
1:J:57:THR:CG2	1:J:58:ILE:N	2.70	0.54
1:J:300:LYS:HB2	1:J:303:ASP:OD2	2.08	0.54
1:J:543:LEU:HD21	1:J:590:VAL:HG13	1.89	0.54
1:K:26:MET:O	1:K:27:THR:C	2.50	0.54
1:L:354:SER:HB2	1:L:419:MET:CA	2.35	0.54
1:L:471:LEU:HD23	1:L:471:LEU:H	1.72	0.54
1:P:300:LYS:HB2	1:P:303:ASP:OD2	2.08	0.54
1:R:287:PRO:O	1:R:471:LEU:HD11	2.05	0.54
1:R:371:PRO:HB3	1:R:459:LEU:HD11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:280:LEU:HD12	1:T:486:PRO:CG	2.36	0.54
2:U:224:ASN:HD22	2:U:226:SER:H	1.53	0.54
2:U:266:TYR:CD2	2:U:300:ILE:HG22	2.42	0.54
3:W:63:PRO:O	3:W:65:LEU:N	2.41	0.54
3:W:75:ILE:CD1	3:W:199:PRO:HG2	2.37	0.54
3:W:164:VAL:HG13	3:W:169:VAL:HG22	1.89	0.54
3:W:454:PRO:HA	3:W:457:LEU:CD2	2.37	0.54
3:W:818:PHE:CE2	3:W:989:HIS:ND1	2.61	0.54
4:X:527:ALA:HB3	4:X:817:ALA:HB3	1.89	0.54
4:X:616:SER:CB	4:Y:723:ASP:CB	2.64	0.54
4:X:926:TYR:O	4:Y:740:LYS:HB3	2.07	0.54
4:X:1017:PHE:CZ	4:Y:426:ASN:O	2.60	0.54
4:X:1040:ASP:OD1	4:X:1040:ASP:N	2.39	0.54
4:Y:117:TYR:HB3	4:Y:132:LEU:CD2	2.30	0.54
1:B:346:ASP:HB3	1:B:428:ARG:N	2.15	0.54
1:D:48:TRP:CZ2	1:D:63:ILE:HG23	2.42	0.54
1:D:471:LEU:HD23	1:D:471:LEU:H	1.72	0.54
1:D:543:LEU:HD21	1:D:590:VAL:HG13	1.89	0.54
1:F:368:THR:C	1:F:403:SER:HB2	2.33	0.54
1:J:262:ALA:HB1	1:J:520:VAL:HG13	1.89	0.54
1:J:350:THR:HG22	1:J:465:THR:O	2.07	0.54
1:L:273:LEU:HA	1:N:630:LEU:HD11	1.90	0.54
1:L:350:THR:HG22	1:L:465:THR:O	2.07	0.54
1:L:431:ILE:HD13	1:L:437:ILE:HG23	1.82	0.54
1:N:44:THR:HG22	1:N:45:GLY:H	1.72	0.54
1:N:373:PHE:HD2	1:N:397:VAL:CG1	2.21	0.54
1:P:410:ASN:ND2	1:R:455:SER:O	2.41	0.54
1:P:472:ARG:NH1	1:R:530:ARG:HD3	2.19	0.54
1:R:350:THR:HG22	1:R:465:THR:O	2.07	0.54
1:T:152:ARG:HH11	1:T:152:ARG:CA	2.21	0.54
2:U:186:ALA:HB2	2:U:282:ALA:O	2.08	0.54
2:U:209:ARG:HA	2:U:290:VAL:HG21	1.90	0.54
2:U:317:GLY:O	2:U:318:ASN:HB3	2.07	0.54
3:W:58:VAL:HG22	3:W:179:THR:HG22	1.90	0.54
3:W:1168:PHE:HD2	3:W:1173:TYR:CE1	2.25	0.54
4:X:528:PHE:HZ	4:X:747:ILE:CD1	2.21	0.54
4:X:528:PHE:CZ	4:X:747:ILE:HD11	2.42	0.54
4:X:984:LEU:HB2	4:X:1074:VAL:HG22	1.88	0.54
4:X:1066:MET:HB3	4:X:1072:THR:CG2	2.34	0.54
4:Y:224:TRP:HB3	4:Y:229:TYR:CE1	2.43	0.54
4:Y:298:LEU:CD1	4:Y:885:LEU:HD12	2.38	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:410:HIS:CD2	4:Y:410:HIS:C	2.86	0.54
4:Y:784:LEU:HB3	4:Y:799:ASP:HB3	1.90	0.54
1:B:357:ILE:CG2	1:B:359:PRO:HD3	2.36	0.54
1:C:26:MET:O	1:C:27:THR:C	2.50	0.54
1:H:304:ALA:O	1:H:307:ILE:HG22	2.07	0.54
1:J:368:THR:C	1:J:403:SER:HB2	2.33	0.54
1:J:373:PHE:HD2	1:J:397:VAL:CG1	2.21	0.54
1:J:641:ILE:CD1	1:N:545:VAL:CG2	2.85	0.54
1:K:20:PHE:CE2	1:K:22:PRO:HD3	2.42	0.54
1:K:35:ASP:O	1:K:36:LEU:HD23	2.06	0.54
1:L:152:ARG:HH11	1:L:152:ARG:CA	2.21	0.54
1:L:543:LEU:HD21	1:L:590:VAL:HG13	1.89	0.54
1:M:26:MET:O	1:M:27:THR:C	2.50	0.54
1:N:371:PRO:HB3	1:N:459:LEU:HD11	1.90	0.54
1:P:152:ARG:HH11	1:P:152:ARG:CA	2.21	0.54
1:P:280:LEU:HD12	1:P:486:PRO:CG	2.36	0.54
1:R:273:LEU:HA	1:T:630:LEU:HD11	1.90	0.54
1:R:358:LEU:CB	1:R:417:PHE:CE2	2.90	0.54
1:T:346:ASP:HB3	1:T:428:ARG:N	2.15	0.54
1:T:368:THR:CG2	1:T:446:PRO:HG3	2.38	0.54
1:T:610:THR:O	1:T:612:SER:N	2.39	0.54
2:U:270:ILE:HD13	2:U:398:GLY:HA3	1.89	0.54
2:V:366:ILE:O	2:V:370:LEU:HD23	2.07	0.54
3:W:714:ARG:HE	3:W:758:THR:CG2	2.21	0.54
3:W:815:TYR:CD1	3:W:1025:ILE:HD11	2.42	0.54
4:X:557:ILE:CA	4:X:592:LEU:HD21	2.37	0.54
4:X:945:VAL:HG13	4:X:945:VAL:O	2.08	0.54
4:X:948:GLU:HG3	4:X:948:GLU:O	2.07	0.54
4:X:1168:ARG:C	4:X:1170:PRO:HD3	2.33	0.54
4:Y:299:LEU:HD21	4:Y:904:ALA:CB	2.37	0.54
4:Y:448:SER:HB2	4:Y:664:GLY:HA2	1.88	0.54
4:Y:459:LEU:HD23	4:Y:785:VAL:HG22	1.89	0.54
4:Y:1020:ILE:CD1	4:Y:1041:ILE:HD11	2.38	0.54
1:B:199:LEU:HD11	1:B:203:TYR:HE2	1.73	0.54
1:D:44:THR:HG22	1:D:45:GLY:H	1.72	0.54
1:E:26:MET:O	1:E:27:THR:C	2.50	0.54
1:F:196:LEU:H	1:F:196:LEU:HD22	1.73	0.54
1:G:26:MET:O	1:G:27:THR:C	2.50	0.54
1:H:199:LEU:HD11	1:H:203:TYR:HE2	1.73	0.54
1:H:341:MET:HB2	1:H:431:ILE:HD13	1.88	0.54
1:J:152:ARG:HH11	1:J:152:ARG:CA	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:158:LEU:N	1:J:158:LEU:HD23	2.23	0.54
1:J:624:LEU:HD22	1:J:628:GLN:OE1	2.08	0.54
1:K:7:SER:O	1:K:8:VAL:C	2.49	0.54
1:L:80:GLU:O	1:L:84:LYS:HB2	2.07	0.54
1:L:341:MET:HB2	1:L:431:ILE:HD13	1.88	0.54
1:N:161:LYS:HE2	1:N:162:HIS:ND1	2.23	0.54
1:N:300:LYS:HB2	1:N:303:ASP:OD2	2.08	0.54
1:P:368:THR:C	1:P:403:SER:HB2	2.33	0.54
1:P:412:ARG:NH1	1:R:459:LEU:CD2	2.71	0.54
1:P:630:LEU:HD11	1:T:273:LEU:HA	1.90	0.54
1:R:422:LEU:O	1:R:423:GLN:HB3	2.08	0.54
1:T:80:GLU:O	1:T:84:LYS:HB2	2.07	0.54
1:T:373:PHE:HD2	1:T:397:VAL:CG1	2.21	0.54
3:W:10:VAL:HG22	3:W:319:GLN:O	2.08	0.54
3:W:766:LEU:CD1	3:W:841:ARG:HH22	2.17	0.54
3:W:1091:LEU:HD13	3:W:1091:LEU:C	2.33	0.54
4:X:415:GLN:O	4:X:417:VAL:N	2.41	0.54
4:X:524:ASP:C	4:X:526:ALA:N	2.55	0.54
4:X:676:VAL:HG22	4:X:768:GLN:OE1	2.08	0.54
4:X:1130:ALA:HB2	4:Y:104:GLN:HB3	1.77	0.54
4:Y:1025:ASN:CG	4:Y:1026:GLY:N	2.57	0.54
4:Y:1037:VAL:CG1	4:Y:1039:ARG:NH2	2.71	0.54
1:B:255:SER:HA	1:B:258:THR:CG2	2.38	0.54
1:D:296:PRO:O	1:D:297:ALA:HB3	2.08	0.54
1:D:412:ARG:NH1	1:F:459:LEU:CD2	2.71	0.54
1:F:484:ILE:HG22	1:F:485:VAL:H	1.73	0.54
1:F:494:THR:HG23	1:F:497:GLU:OE1	2.08	0.54
1:F:624:LEU:HD22	1:F:628:GLN:OE1	2.08	0.54
1:H:196:LEU:H	1:H:196:LEU:HD22	1.73	0.54
1:H:543:LEU:HD21	1:H:590:VAL:HG13	1.89	0.54
1:J:199:LEU:HD11	1:J:203:TYR:HE2	1.73	0.54
1:J:531:THR:O	1:J:532:ASP:C	2.50	0.54
1:L:373:PHE:HD2	1:L:397:VAL:CG1	2.21	0.54
1:L:412:ARG:NH1	1:N:459:LEU:CD2	2.71	0.54
1:N:137:ILE:HD13	1:N:142:ILE:HG13	1.89	0.54
1:N:161:LYS:HD3	1:N:162:HIS:CA	2.36	0.54
1:N:419:MET:O	1:N:419:MET:HE3	2.08	0.54
1:P:459:LEU:CD2	1:T:412:ARG:NH1	2.71	0.54
1:P:471:LEU:H	1:P:471:LEU:HD23	1.72	0.54
1:R:410:ASN:ND2	1:T:455:SER:O	2.41	0.54
1:S:26:MET:O	1:S:27:THR:C	2.50	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:158:LEU:N	1:T:158:LEU:HD23	2.23	0.54
1:T:199:LEU:HD11	1:T:203:TYR:HE2	1.73	0.54
1:T:368:THR:C	1:T:403:SER:HB2	2.33	0.54
2:V:64:ARG:NH2	4:X:1027:LEU:HD22	2.23	0.54
3:W:39:LEU:HD12	3:W:43:LEU:HB2	1.89	0.54
3:W:632:PHE:O	3:W:636:ALA:HB2	2.08	0.54
3:W:821:GLU:HA	3:W:824:ARG:HH21	1.73	0.54
3:W:932:GLN:O	3:W:932:GLN:HG2	2.08	0.54
4:X:259:LEU:O	4:X:307:SER:HB3	2.07	0.54
4:X:423:CYS:HB3	4:X:845:PHE:CE2	2.43	0.54
4:X:891:PHE:CD1	4:X:891:PHE:O	2.61	0.54
4:Y:29:THR:CG2	4:Y:68:PRO:HB2	2.38	0.54
4:Y:223:THR:O	4:Y:223:THR:HG22	2.06	0.54
4:Y:356:ASN:CG	4:Y:1151:ALA:HB1	2.33	0.54
4:Y:717:MET:HE2	4:Y:717:MET:CA	2.37	0.54
4:Y:863:ALA:O	4:Y:920:LEU:HD22	2.08	0.54
1:B:212:ILE:CD1	1:B:220:PRO:HB3	2.36	0.53
1:B:373:PHE:HD2	1:B:397:VAL:CG1	2.21	0.53
1:C:35:ASP:O	1:C:36:LEU:HD23	2.06	0.53
1:D:526:PRO:HG2	1:D:533:ASP:HB3	1.89	0.53
1:F:350:THR:HG22	1:F:465:THR:O	2.07	0.53
1:F:431:ILE:CG1	1:F:437:ILE:HG21	2.38	0.53
1:H:350:THR:HG22	1:H:465:THR:O	2.07	0.53
1:I:26:MET:O	1:I:27:THR:C	2.50	0.53
1:J:455:SER:O	1:N:410:ASN:ND2	2.41	0.53
1:J:484:ILE:HG22	1:J:485:VAL:H	1.73	0.53
1:L:296:PRO:O	1:L:297:ALA:HB3	2.08	0.53
1:L:624:LEU:HD22	1:L:628:GLN:OE1	2.08	0.53
1:N:350:THR:HG22	1:N:465:THR:O	2.07	0.53
1:N:494:THR:HG23	1:N:497:GLU:OE1	2.08	0.53
1:R:141:GLN:C	1:R:143:MET:N	2.63	0.53
1:R:229:ASP:O	1:R:230:ALA:HB3	2.09	0.53
1:R:300:LYS:HB2	1:R:303:ASP:OD2	2.08	0.53
1:R:373:PHE:HD2	1:R:397:VAL:CG1	2.21	0.53
2:U:166:MET:HE1	2:U:174:LEU:CD1	2.38	0.53
2:U:316:THR:HG22	2:U:317:GLY:N	2.22	0.53
2:V:178:THR:HB	4:Y:407:ARG:HB3	1.89	0.53
4:X:215:LEU:CD2	4:X:215:LEU:N	2.72	0.53
4:X:356:ASN:ND2	4:X:1151:ALA:HB1	2.22	0.53
4:X:411:GLN:CG	4:X:445:PHE:CD2	2.91	0.53
4:X:652:GLN:NE2	4:X:773:ARG:HE	2.05	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:367:SER:O	1:B:368:THR:HB	2.08	0.53
1:D:410:ASN:ND2	1:F:455:SER:O	2.41	0.53
1:F:346:ASP:HB3	1:F:428:ARG:N	2.15	0.53
1:F:368:THR:CG2	1:F:446:PRO:HG3	2.38	0.53
1:F:412:ARG:NH1	1:H:459:LEU:CD2	2.71	0.53
1:F:471:LEU:HD23	1:F:471:LEU:H	1.72	0.53
1:H:141:GLN:C	1:H:143:MET:N	2.63	0.53
1:H:144:ASN:C	1:H:146:GLN:N	2.65	0.53
1:H:419:MET:O	1:H:419:MET:HE3	2.08	0.53
1:J:255:SER:HA	1:J:258:THR:CG2	2.38	0.53
1:J:630:LEU:HD11	1:N:273:LEU:HA	1.90	0.53
1:L:255:SER:HA	1:L:258:THR:CG2	2.39	0.53
1:N:67:ARG:HH11	1:N:67:ARG:HG3	1.72	0.53
1:N:229:ASP:O	1:N:230:ALA:HB3	2.09	0.53
1:P:229:ASP:O	1:P:230:ALA:HB3	2.09	0.53
1:P:312:ASN:CG	1:P:316:ILE:HD11	2.34	0.53
1:P:431:ILE:CG1	1:P:437:ILE:HG21	2.38	0.53
1:R:152:ARG:HH11	1:R:152:ARG:CA	2.21	0.53
1:T:300:LYS:HB2	1:T:303:ASP:OD2	2.08	0.53
1:T:422:LEU:O	1:T:423:GLN:HB3	2.08	0.53
2:U:228:THR:HG22	2:U:233:TYR:CD2	2.43	0.53
3:W:77:ASN:N	3:W:78:PRO:HD3	2.23	0.53
3:W:823:THR:CG2	3:W:846:ILE:HG23	2.38	0.53
4:X:519:GLN:H	4:X:520:PRO:HD3	1.72	0.53
4:X:617:HIS:CE1	4:X:619:GLY:H	2.25	0.53
4:X:1017:PHE:HZ	4:Y:426:ASN:O	1.91	0.53
4:X:1100:LEU:HD21	4:X:1136:ALA:HB2	1.90	0.53
4:X:1108:ASN:C	4:X:1110:ALA:H	2.15	0.53
4:Y:407:ARG:NH2	4:Y:410:HIS:ND1	2.56	0.53
1:B:296:PRO:O	1:B:297:ALA:HB3	2.08	0.53
1:B:526:PRO:HG2	1:B:533:ASP:HB3	1.89	0.53
1:D:158:LEU:HD23	1:D:158:LEU:N	2.23	0.53
1:D:255:SER:HA	1:D:258:THR:CG2	2.38	0.53
1:D:373:PHE:HD2	1:D:397:VAL:CG1	2.21	0.53
1:D:549:LEU:HB3	1:F:644:LEU:CD1	2.33	0.53
1:D:624:LEU:HD22	1:D:628:GLN:OE1	2.08	0.53
1:F:300:LYS:HB2	1:F:303:ASP:OD2	2.08	0.53
1:F:312:ASN:CG	1:F:316:ILE:HD11	2.34	0.53
1:F:367:SER:O	1:F:368:THR:HB	2.08	0.53
1:H:367:SER:O	1:H:368:THR:HB	2.08	0.53
1:J:296:PRO:O	1:J:297:ALA:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:49:ARG:NH1	1:L:115:THR:HG22	2.18	0.53
1:L:196:LEU:HD22	1:L:196:LEU:H	1.73	0.53
1:L:300:LYS:HB2	1:L:303:ASP:OD2	2.08	0.53
1:L:431:ILE:CG1	1:L:437:ILE:HG21	2.38	0.53
1:P:367:SER:O	1:P:368:THR:HB	2.08	0.53
1:P:373:PHE:HD2	1:P:397:VAL:CG1	2.21	0.53
1:P:416:ARG:CB	1:R:298:PHE:HE1	2.16	0.53
1:P:624:LEU:HD22	1:P:628:GLN:OE1	2.08	0.53
1:T:196:LEU:HD22	1:T:196:LEU:H	1.73	0.53
2:U:37:TRP:HA	2:U:37:TRP:HE3	1.73	0.53
2:V:185:LEU:HD22	2:V:211:LEU:HD21	1.89	0.53
4:X:269:SER:O	4:X:270:SER:CB	2.56	0.53
1:C:20:PHE:CE2	1:C:22:PRO:HD3	2.42	0.53
1:D:300:LYS:HB2	1:D:303:ASP:OD2	2.08	0.53
1:D:494:THR:HG23	1:D:497:GLU:OE1	2.08	0.53
1:D:531:THR:O	1:D:532:ASP:C	2.50	0.53
1:E:27:THR:O	1:E:27:THR:CG2	2.38	0.53
1:F:199:LEU:HD11	1:F:203:TYR:HE2	1.73	0.53
1:F:273:LEU:HA	1:H:630:LEU:HD11	1.90	0.53
1:H:158:LEU:N	1:H:158:LEU:HD23	2.23	0.53
1:H:471:LEU:H	1:H:471:LEU:HD23	1.72	0.53
1:J:412:ARG:NH1	1:L:459:LEU:CD2	2.71	0.53
1:J:459:LEU:CD2	1:N:412:ARG:NH1	2.71	0.53
1:L:141:GLN:C	1:L:143:MET:N	2.63	0.53
1:L:238:VAL:CG2	1:N:78:MET:HE1	2.07	0.53
1:L:357:ILE:HD11	1:L:414:GLN:HB3	1.91	0.53
1:L:371:PRO:HB2	1:L:459:LEU:CD1	2.39	0.53
1:L:419:MET:HE3	1:L:419:MET:O	2.08	0.53
1:N:167:MET:HA	1:N:167:MET:CE	2.31	0.53
1:N:484:ILE:HG22	1:N:485:VAL:H	1.73	0.53
1:P:419:MET:O	1:P:419:MET:HE3	2.08	0.53
1:P:494:THR:HG23	1:P:497:GLU:OE1	2.09	0.53
1:R:262:ALA:HB1	1:R:520:VAL:HG13	1.89	0.53
1:R:368:THR:C	1:R:403:SER:HB2	2.33	0.53
1:R:371:PRO:CB	1:R:459:LEU:HD11	2.39	0.53
1:R:526:PRO:HG2	1:R:533:ASP:HB3	1.89	0.53
1:T:255:SER:HA	1:T:258:THR:CG2	2.39	0.53
1:T:262:ALA:HB1	1:T:520:VAL:HG13	1.89	0.53
1:T:268:GLY:O	1:T:269:LYS:C	2.49	0.53
1:T:357:ILE:HD11	1:T:414:GLN:HB3	1.91	0.53
1:T:371:PRO:CB	1:T:459:LEU:HD11	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:28:GLU:O	2:U:29:LEU:HD23	2.08	0.53
2:U:263:GLN:HE21	2:U:263:GLN:CA	2.20	0.53
3:W:578:VAL:O	3:W:578:VAL:HG12	2.07	0.53
4:X:495:ASN:O	4:X:498:THR:HG22	2.08	0.53
4:X:502:GLU:OE2	4:X:510:PRO:HD2	2.08	0.53
4:Y:277:VAL:CG2	4:Y:299:LEU:HD22	2.26	0.53
4:Y:973:ASN:HD21	4:Y:1142:ASN:HA	1.74	0.53
1:B:158:LEU:N	1:B:158:LEU:HD23	2.23	0.53
1:B:484:ILE:HG22	1:B:485:VAL:H	1.73	0.53
1:B:531:THR:O	1:B:532:ASP:C	2.50	0.53
1:B:624:LEU:HD22	1:B:628:GLN:OE1	2.08	0.53
1:D:341:MET:HB2	1:D:431:ILE:HD13	1.89	0.53
1:D:350:THR:HG22	1:D:465:THR:O	2.07	0.53
1:D:419:MET:HE3	1:D:419:MET:O	2.08	0.53
1:F:141:GLN:C	1:F:143:MET:N	2.63	0.53
1:H:67:ARG:HG3	1:H:67:ARG:HH11	1.72	0.53
1:H:229:ASP:O	1:H:230:ALA:HB3	2.08	0.53
1:H:312:ASN:CG	1:H:316:ILE:HD11	2.34	0.53
1:H:371:PRO:HB3	1:H:459:LEU:HD11	1.90	0.53
1:H:484:ILE:HG22	1:H:485:VAL:H	1.73	0.53
1:J:141:GLN:C	1:J:143:MET:H	2.16	0.53
1:J:312:ASN:CG	1:J:316:ILE:HD11	2.34	0.53
1:J:341:MET:HB2	1:J:431:ILE:HD13	1.89	0.53
1:J:431:ILE:CG1	1:J:437:ILE:HG21	2.38	0.53
1:L:58:ILE:HG13	1:L:127:LEU:HD23	1.91	0.53
1:L:272:ASP:O	1:L:273:LEU:CD2	2.56	0.53
1:L:312:ASN:CG	1:L:316:ILE:HD11	2.34	0.53
1:L:526:PRO:HG2	1:L:533:ASP:HB3	1.89	0.53
1:N:158:LEU:N	1:N:158:LEU:HD23	2.23	0.53
1:N:266:MET:HE3	1:N:605:GLY:HA2	1.91	0.53
1:P:255:SER:HA	1:P:258:THR:CG2	2.38	0.53
1:P:296:PRO:O	1:P:297:ALA:HB3	2.08	0.53
1:P:371:PRO:HB2	1:P:459:LEU:CD1	2.39	0.53
1:R:67:ARG:HH11	1:R:67:ARG:HG3	1.72	0.53
1:R:312:ASN:CG	1:R:316:ILE:HD11	2.34	0.53
1:R:521:VAL:HG23	1:R:522:GLY:H	1.74	0.53
1:T:494:THR:HG23	1:T:497:GLU:OE1	2.08	0.53
2:U:277:GLN:OE1	2:U:280:GLU:HG3	2.08	0.53
2:V:204:MET:HE1	4:Y:384:MET:SD	2.48	0.53
3:W:213:ARG:NH1	3:W:372:PHE:CZ	2.77	0.53
4:X:971:GLU:HG2	4:X:974:LEU:HD22	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1149:THR:CG2	4:X:1162:ALA:N	2.66	0.53
1:B:58:ILE:HG13	1:B:127:LEU:HD23	1.91	0.53
1:B:229:ASP:O	1:B:230:ALA:HB3	2.08	0.53
1:B:357:ILE:HD11	1:B:414:GLN:HB3	1.91	0.53
1:B:371:PRO:HB3	1:B:459:LEU:HD11	1.90	0.53
1:D:95:LEU:HD21	1:D:207:PHE:CZ	2.44	0.53
1:D:229:ASP:O	1:D:230:ALA:HB3	2.08	0.53
1:D:455:SER:O	1:H:410:ASN:ND2	2.41	0.53
1:D:459:LEU:CD2	1:H:412:ARG:NH1	2.71	0.53
1:D:578:SER:OG	1:H:468:PRO:O	2.21	0.53
1:F:410:ASN:ND2	1:H:455:SER:O	2.41	0.53
1:H:95:LEU:HD21	1:H:207:PHE:CZ	2.44	0.53
1:H:296:PRO:O	1:H:297:ALA:HB3	2.08	0.53
1:H:300:LYS:HB2	1:H:303:ASP:OD2	2.08	0.53
1:J:411:VAL:O	1:J:412:ARG:CB	2.56	0.53
1:L:237:GLU:OE1	1:N:46:LYS:NZ	2.38	0.53
1:L:410:ASN:ND2	1:N:455:SER:O	2.41	0.53
1:P:158:LEU:N	1:P:158:LEU:HD23	2.23	0.53
1:P:371:PRO:CB	1:P:459:LEU:HD11	2.39	0.53
1:R:199:LEU:HD11	1:R:203:TYR:HE2	1.73	0.53
1:R:484:ILE:HG22	1:R:485:VAL:H	1.73	0.53
1:R:518:ALA:CB	1:R:580:PRO:HG3	2.39	0.53
1:T:494:THR:H	1:T:497:GLU:CB	2.19	0.53
2:U:241:LEU:HA	4:X:1179:VAL:HG12	1.89	0.53
3:W:213:ARG:HE	3:W:217:LEU:CD2	2.22	0.53
3:W:736:VAL:HG11	3:W:780:LEU:HD21	1.90	0.53
3:W:819:ILE:CD1	3:W:896:ILE:HD12	2.34	0.53
4:X:380:GLU:HG3	4:X:381:VAL:N	2.24	0.53
4:X:979:ARG:CG	4:X:980:GLY:N	2.67	0.53
4:Y:123:ASN:HB3	4:Y:161:LEU:HD13	1.90	0.53
4:Y:693:TYR:OH	4:Y:740:LYS:HD3	2.08	0.53
1:B:494:THR:HG23	1:B:497:GLU:OE1	2.09	0.53
1:F:95:LEU:HD21	1:F:207:PHE:CZ	2.44	0.53
1:F:296:PRO:O	1:F:297:ALA:HB3	2.08	0.53
1:H:287:PRO:HG2	1:H:471:LEU:CD1	2.39	0.53
1:H:321:THR:HG23	1:H:324:GLY:O	2.09	0.53
1:H:624:LEU:HD22	1:H:628:GLN:OE1	2.08	0.53
1:J:229:ASP:O	1:J:230:ALA:HB3	2.08	0.53
1:J:368:THR:CG2	1:J:446:PRO:HG3	2.38	0.53
1:J:518:ALA:CB	1:J:580:PRO:HG3	2.39	0.53
1:J:526:PRO:HG2	1:J:533:ASP:HB3	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:266:MET:HE3	1:L:605:GLY:HA2	1.91	0.53
1:N:199:LEU:O	1:N:207:PHE:HE2	1.91	0.53
1:N:321:THR:HG23	1:N:324:GLY:O	2.09	0.53
1:N:494:THR:O	1:N:495:SER:C	2.52	0.53
1:P:266:MET:HE3	1:P:605:GLY:HA2	1.91	0.53
1:Q:24:SER:HB3	1:R:176:ALA:N	2.24	0.53
1:T:367:SER:O	1:T:368:THR:HB	2.08	0.53
2:U:121:ASP:CG	2:U:123:ASN:HB2	2.33	0.53
3:W:460:ALA:HB2	3:W:624:THR:HG22	1.89	0.53
3:W:614:GLY:H	3:W:662:ARG:HB3	1.72	0.53
3:W:839:GLU:HB3	3:W:861:ALA:CB	2.31	0.53
3:W:845:LEU:N	3:W:845:LEU:HD12	2.24	0.53
3:W:942:SER:HB2	3:W:947:ILE:O	2.09	0.53
4:X:347:ARG:HG3	4:X:368:ILE:HD12	1.91	0.53
4:X:355:LYS:HE3	4:X:1149:THR:HG23	1.89	0.53
4:X:701:ILE:O	4:X:705:ILE:HG12	2.09	0.53
4:X:1006:ARG:HH11	4:X:1013:VAL:HG21	1.74	0.53
4:Y:75:ASP:O	4:Y:76:GLY:C	2.52	0.53
4:Y:132:LEU:O	4:Y:136:LEU:HG	2.09	0.53
4:Y:547:GLU:HA	4:Y:547:GLU:OE1	2.09	0.53
4:Y:787:ARG:HB3	4:Y:931:ILE:HG22	1.91	0.53
4:Y:923:LEU:HD21	4:Y:931:ILE:HD13	1.91	0.53
4:Y:1023:ARG:NH2	4:Y:1030:GLN:HB3	2.23	0.53
4:Y:1100:LEU:HD12	4:Y:1135:TYR:HB2	1.89	0.53
1:B:368:THR:CG2	1:B:446:PRO:HG3	2.38	0.53
1:B:431:ILE:CG1	1:B:437:ILE:HG21	2.38	0.53
1:D:367:SER:O	1:D:368:THR:HB	2.08	0.53
1:D:371:PRO:CB	1:D:459:LEU:HD11	2.39	0.53
1:D:630:LEU:HD11	1:H:273:LEU:HA	1.90	0.53
1:F:50:PRO:HG3	1:F:56:ALA:HB2	1.91	0.53
1:F:158:LEU:N	1:F:158:LEU:HD23	2.23	0.53
1:F:199:LEU:O	1:F:207:PHE:HE2	1.91	0.53
1:F:255:SER:HA	1:F:258:THR:CG2	2.39	0.53
1:H:255:SER:HA	1:H:258:THR:CG2	2.38	0.53
1:H:521:VAL:HG23	1:H:522:GLY:H	1.74	0.53
1:L:367:SER:O	1:L:368:THR:HB	2.08	0.53
1:L:368:THR:C	1:L:403:SER:HB2	2.33	0.53
1:L:411:VAL:O	1:L:412:ARG:CB	2.56	0.53
1:N:312:ASN:CG	1:N:316:ILE:HD11	2.34	0.53
1:P:518:ALA:CB	1:P:580:PRO:HG3	2.39	0.53
1:R:419:MET:O	1:R:419:MET:HE3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:566:TRP:NE1	1:T:195:PRO:HD3	2.24	0.53
1:T:411:VAL:O	1:T:412:ARG:CB	2.57	0.53
1:T:624:LEU:HD22	1:T:628:GLN:OE1	2.08	0.53
2:V:175:MET:HE2	4:Y:404:MET:CE	2.39	0.53
3:W:620:VAL:HG23	3:W:657:LEU:HD11	1.91	0.53
3:W:814:GLY:HA3	3:W:991:LEU:CD1	2.39	0.53
3:W:816:ASN:CG	3:W:845:LEU:HD21	2.33	0.53
3:W:888:ILE:HG13	3:W:888:ILE:O	2.09	0.53
4:X:545:LEU:HD22	4:X:576:THR:HG21	1.89	0.53
4:X:557:ILE:HA	4:X:592:LEU:HD21	1.88	0.53
4:X:633:PRO:C	4:X:635:GLN:H	2.17	0.53
4:X:925:LEU:HD22	4:X:926:TYR:HD1	1.74	0.53
4:X:1078:LEU:HG	4:X:1081:TYR:HD2	1.74	0.53
4:Y:599:ILE:CD1	4:Y:631:ILE:HG12	2.38	0.53
4:Y:634:GLN:CD	4:Y:634:GLN:N	2.66	0.53
1:B:199:LEU:O	1:B:207:PHE:HE2	1.91	0.53
1:B:443:PHE:HB2	1:B:457:PRO:CB	2.24	0.53
1:D:485:VAL:HG12	1:D:485:VAL:O	2.09	0.53
1:F:141:GLN:C	1:F:143:MET:H	2.16	0.53
1:H:494:THR:H	1:H:497:GLU:CB	2.19	0.53
1:H:494:THR:O	1:H:495:SER:C	2.52	0.53
1:J:95:LEU:HD21	1:J:207:PHE:CZ	2.44	0.53
1:J:199:LEU:O	1:J:207:PHE:HE2	1.91	0.53
1:J:266:MET:HE3	1:J:605:GLY:HA2	1.91	0.53
1:J:273:LEU:HA	1:L:630:LEU:HD11	1.90	0.53
1:J:357:ILE:HD11	1:J:414:GLN:HB3	1.91	0.53
1:J:419:MET:O	1:J:419:MET:HE3	2.08	0.53
1:J:494:THR:HG23	1:J:497:GLU:OE1	2.08	0.53
1:L:476:TYR:CD1	1:L:506:ALA:HB3	2.44	0.53
1:N:255:SER:HA	1:N:258:THR:CG2	2.38	0.53
1:N:371:PRO:HB2	1:N:459:LEU:CD1	2.39	0.53
1:P:287:PRO:HG2	1:P:471:LEU:CD1	2.39	0.53
1:P:321:THR:HG23	1:P:324:GLY:O	2.09	0.53
1:P:484:ILE:HG22	1:P:485:VAL:H	1.73	0.53
1:R:196:LEU:HD22	1:R:196:LEU:H	1.74	0.53
1:R:266:MET:HE3	1:R:605:GLY:HA2	1.91	0.53
1:R:368:THR:CG2	1:R:446:PRO:HG3	2.38	0.53
1:R:624:LEU:HD22	1:R:628:GLN:OE1	2.08	0.53
1:T:58:ILE:HG13	1:T:127:LEU:HD23	1.91	0.53
1:T:199:LEU:O	1:T:207:PHE:HE2	1.91	0.53
1:T:518:ALA:CB	1:T:580:PRO:HG3	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:211:LEU:HD12	2:U:286:MET:SD	2.49	0.53
2:U:357:ASN:O	2:U:360:THR:HG22	2.09	0.53
3:W:175:CYS:O	3:W:177:TYR:N	2.42	0.53
3:W:558:VAL:HG11	3:W:561:GLY:O	2.09	0.53
3:W:1145:ASP:HB2	3:W:1147:THR:HG23	1.90	0.53
3:W:1215:LEU:HD12	3:W:1215:LEU:O	2.08	0.53
4:X:302:LEU:HD23	4:X:302:LEU:C	2.34	0.53
4:X:308:ASN:HD22	4:X:395:THR:HG23	1.73	0.53
4:X:407:ARG:C	4:X:409:MET:N	2.67	0.53
4:X:450:ASP:CG	4:X:861:ARG:NH1	2.66	0.53
4:X:720:THR:O	4:X:721:VAL:C	2.51	0.53
4:Y:39:PRO:HB3	4:Y:72:VAL:HG23	1.91	0.53
4:Y:413:PRO:HG2	4:Y:440:ILE:CD1	2.39	0.53
4:Y:1075:LEU:HG	4:Y:1075:LEU:O	2.09	0.53
1:B:345:ILE:O	1:B:346:ASP:C	2.52	0.53
1:B:422:LEU:O	1:B:423:GLN:HB3	2.08	0.53
1:D:141:GLN:C	1:D:143:MET:H	2.16	0.53
1:D:199:LEU:O	1:D:207:PHE:HE2	1.92	0.53
1:D:312:ASN:CG	1:D:316:ILE:HD11	2.34	0.53
1:F:422:LEU:O	1:F:423:GLN:HB3	2.08	0.53
1:F:476:TYR:CD1	1:F:506:ALA:HB3	2.44	0.53
1:I:24:SER:HB3	1:J:176:ALA:N	2.24	0.53
1:J:44:THR:HG22	1:J:45:GLY:H	1.72	0.53
1:L:95:LEU:HD21	1:L:207:PHE:CZ	2.44	0.53
1:L:494:THR:O	1:L:495:SER:C	2.52	0.53
1:L:521:VAL:HG23	1:L:522:GLY:H	1.74	0.53
1:N:196:LEU:H	1:N:196:LEU:HD22	1.73	0.53
1:N:371:PRO:CB	1:N:459:LEU:HD11	2.39	0.53
1:N:521:VAL:HG23	1:N:522:GLY:H	1.74	0.53
1:P:195:PRO:HD3	1:T:566:TRP:NE1	2.24	0.53
1:P:422:LEU:O	1:P:423:GLN:HB3	2.08	0.53
1:P:494:THR:O	1:P:495:SER:C	2.52	0.53
1:P:521:VAL:HG23	1:P:522:GLY:H	1.74	0.53
1:P:531:THR:O	1:P:532:ASP:C	2.50	0.53
1:R:371:PRO:HB2	1:R:459:LEU:CD1	2.39	0.53
1:T:229:ASP:O	1:T:230:ALA:HB3	2.08	0.53
1:T:476:TYR:CD1	1:T:506:ALA:HB3	2.44	0.53
2:V:384:MET:N	2:V:385:PRO:HD3	2.24	0.53
3:W:770:ARG:NH1	3:W:774:LEU:HD11	2.24	0.53
3:W:1134:VAL:HG21	3:W:1221:PHE:CD1	2.44	0.53
4:X:356:ASN:O	4:X:359:PHE:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:364:ILE:HG13	4:X:367:ARG:NH2	2.21	0.53
4:X:429:ASN:N	4:X:429:ASN:ND2	2.56	0.53
4:X:520:PRO:HD2	4:X:816:ALA:CB	2.39	0.53
4:Y:427:LEU:HD13	4:Y:837:TYR:CB	2.38	0.53
4:Y:497:ILE:C	4:Y:497:ILE:HD13	2.34	0.53
4:Y:1209:TYR:CD1	4:Y:1209:TYR:N	2.77	0.53
4:Y:1212:SER:O	4:Y:1213:ALA:C	2.51	0.53
1:F:345:ILE:O	1:F:346:ASP:C	2.52	0.52
1:F:494:THR:O	1:F:495:SER:C	2.52	0.52
1:H:422:LEU:O	1:H:423:GLN:HB3	2.08	0.52
1:H:494:THR:HG23	1:H:497:GLU:OE1	2.08	0.52
1:H:518:ALA:CB	1:H:580:PRO:HG3	2.39	0.52
1:J:49:ARG:NH1	1:J:115:THR:CG2	2.61	0.52
1:J:49:ARG:NH1	2:V:405:ALA:CB	2.72	0.52
1:L:199:LEU:HD11	1:L:203:TYR:HE2	1.73	0.52
1:L:229:ASP:O	1:L:230:ALA:HB3	2.09	0.52
1:L:357:ILE:CG2	1:L:359:PRO:HD3	2.35	0.52
1:M:24:SER:HB3	1:N:176:ALA:N	2.24	0.52
1:N:144:ASN:C	1:N:146:GLN:N	2.65	0.52
1:N:367:SER:O	1:N:368:THR:HB	2.08	0.52
1:Q:26:MET:O	1:Q:27:THR:C	2.50	0.52
1:T:144:ASN:C	1:T:146:GLN:N	2.65	0.52
2:U:112:TRP:CZ3	2:U:114:VAL:HA	2.44	0.52
2:U:198:GLN:OE1	4:X:661:THR:CG2	2.57	0.52
2:U:222:ARG:N	2:U:340:GLN:HG2	2.23	0.52
2:V:16:GLN:HG2	2:V:20:LEU:HD21	1.91	0.52
3:W:167:ASP:HB2	3:W:212:ALA:CB	2.31	0.52
3:W:248:LEU:HD21	4:X:647:ARG:CZ	2.39	0.52
3:W:750:PRO:HD3	3:W:791:PHE:HB3	1.90	0.52
4:X:331:ARG:HH22	4:X:1196:ARG:CZ	2.21	0.52
4:X:409:MET:CB	4:X:445:PHE:O	2.55	0.52
4:X:416:ILE:HG22	4:X:445:PHE:HZ	1.69	0.52
4:X:444:TRP:HB3	4:X:851:PHE:HB3	1.91	0.52
4:X:992:ASN:HD22	4:X:992:ASN:C	2.16	0.52
4:X:1085:LEU:HD22	4:X:1119:ILE:CD1	2.39	0.52
4:X:1183:ASP:OD2	4:X:1187:ARG:HB2	2.09	0.52
4:Y:534:SER:OG	4:Y:543:THR:HB	2.09	0.52
4:Y:764:THR:HG23	4:Y:764:THR:O	2.09	0.52
4:Y:985:VAL:HG22	4:Y:1137:PHE:CE1	2.44	0.52
4:Y:1190:LEU:HD22	4:Y:1190:LEU:N	2.23	0.52
1:B:167:MET:HA	1:B:167:MET:CE	2.31	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:312:ASN:CG	1:B:316:ILE:HD11	2.34	0.52
1:B:358:LEU:CB	1:B:417:PHE:CE2	2.90	0.52
1:B:371:PRO:HB2	1:B:459:LEU:CD1	2.39	0.52
1:D:196:LEU:HD22	1:D:196:LEU:H	1.74	0.52
1:F:371:PRO:CB	1:F:459:LEU:HD11	2.39	0.52
1:F:371:PRO:HB2	1:F:459:LEU:CD1	2.39	0.52
1:F:419:MET:O	1:F:419:MET:HE3	2.08	0.52
1:H:152:ARG:HH11	1:H:152:ARG:CA	2.21	0.52
1:H:371:PRO:CB	1:H:459:LEU:HD11	2.39	0.52
1:L:422:LEU:O	1:L:423:GLN:HB3	2.08	0.52
1:N:95:LEU:HD21	1:N:207:PHE:CZ	2.44	0.52
1:N:148:THR:HA	1:R:100:LYS:HG3	1.91	0.52
1:N:199:LEU:HD11	1:N:203:TYR:HE2	1.73	0.52
1:N:518:ALA:CB	1:N:580:PRO:HG3	2.39	0.52
1:P:238:VAL:HG11	1:R:82:PHE:CZ	2.44	0.52
1:R:249:VAL:O	1:R:250:GLY:C	2.53	0.52
1:R:412:ARG:NH1	1:T:459:LEU:CD2	2.71	0.52
1:R:468:PRO:O	1:T:578:SER:OG	2.21	0.52
1:R:494:THR:HG23	1:R:497:GLU:OE1	2.08	0.52
1:T:141:GLN:C	1:T:143:MET:H	2.16	0.52
1:T:296:PRO:O	1:T:297:ALA:HB3	2.08	0.52
1:T:419:MET:HE3	1:T:419:MET:O	2.08	0.52
3:W:47:LEU:HD11	3:W:327:ILE:HG23	1.90	0.52
3:W:111:ARG:HD2	3:W:139:PHE:CB	2.39	0.52
3:W:533:ILE:HG12	3:W:537:ILE:HD11	1.91	0.52
3:W:839:GLU:HG3	3:W:839:GLU:O	2.08	0.52
4:X:428:LEU:CD2	4:X:842:ALA:HA	2.39	0.52
4:X:448:SER:HB2	4:X:664:GLY:CA	2.39	0.52
4:Y:29:THR:HG22	4:Y:68:PRO:C	2.34	0.52
4:Y:871:VAL:O	4:Y:875:GLN:HG2	2.08	0.52
4:Y:1081:TYR:OH	4:Y:1138:THR:CG2	2.57	0.52
4:Y:1156:THR:CG2	4:Y:1161:ASN:OD1	2.57	0.52
1:B:50:PRO:HG3	1:B:56:ALA:HB2	1.91	0.52
1:B:266:MET:HE3	1:B:605:GLY:HA2	1.91	0.52
1:B:371:PRO:CB	1:B:459:LEU:HD11	2.39	0.52
1:D:266:MET:HE3	1:D:605:GLY:HA2	1.91	0.52
1:D:422:LEU:O	1:D:423:GLN:HB3	2.08	0.52
1:D:644:LEU:CD1	1:H:549:LEU:HB3	2.33	0.52
1:F:229:ASP:O	1:F:230:ALA:HB3	2.09	0.52
1:F:249:VAL:O	1:F:250:GLY:C	2.53	0.52
1:H:58:ILE:HG13	1:H:127:LEU:HD23	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:141:GLN:C	1:H:143:MET:H	2.16	0.52
1:H:199:LEU:O	1:H:207:PHE:HE2	1.91	0.52
1:I:29:THR:HG22	1:N:609:ARG:HD2	1.91	0.52
1:J:141:GLN:C	1:J:143:MET:N	2.63	0.52
1:J:371:PRO:CB	1:J:459:LEU:HD11	2.39	0.52
1:J:410:ASN:ND2	1:L:455:SER:O	2.41	0.52
1:J:485:VAL:O	1:J:485:VAL:HG12	2.09	0.52
1:L:199:LEU:O	1:L:207:PHE:HE2	1.91	0.52
1:L:371:PRO:HB3	1:L:459:LEU:HD11	1.90	0.52
1:L:485:VAL:HG12	1:L:485:VAL:O	2.09	0.52
1:P:199:LEU:O	1:P:207:PHE:HE2	1.91	0.52
1:R:58:ILE:HG13	1:R:127:LEU:HD23	1.91	0.52
1:R:255:SER:HA	1:R:258:THR:CG2	2.38	0.52
1:R:296:PRO:O	1:R:297:ALA:HB3	2.08	0.52
1:R:342:ASN:OD1	1:R:431:ILE:HG21	2.10	0.52
1:R:357:ILE:HD11	1:R:414:GLN:HB3	1.91	0.52
1:T:471:LEU:HD23	1:T:471:LEU:H	1.72	0.52
1:T:521:VAL:HG23	1:T:522:GLY:H	1.74	0.52
2:U:23:LEU:HD11	2:U:27:GLN:HE21	1.74	0.52
2:U:136:TRP:CE3	2:U:197:PRO:HG3	2.44	0.52
2:U:240:ALA:O	2:U:241:LEU:HD23	2.08	0.52
3:W:251:SER:HB2	3:W:255:ILE:HD11	1.90	0.52
3:W:296:ASP:HB3	3:W:305:GLN:NE2	2.24	0.52
3:W:304:LEU:HD23	3:W:304:LEU:C	2.34	0.52
3:W:439:PHE:CD2	3:W:684:ARG:NH1	2.77	0.52
3:W:1187:ALA:HB3	3:W:1188:PRO:HD3	1.91	0.52
4:X:241:ASN:HB2	4:X:1148:SER:OG	2.08	0.52
4:X:599:ILE:HD13	4:X:639:LEU:HD21	1.90	0.52
4:Y:220:ILE:HG22	4:Y:221:GLY:N	2.22	0.52
4:Y:457:MET:HG2	4:Y:860:THR:CG2	2.38	0.52
4:Y:610:THR:HG21	4:Y:614:GLN:HG2	1.91	0.52
1:A:24:SER:HB3	1:B:176:ALA:N	2.24	0.52
1:B:93:GLN:N	1:B:94:PRO:CD	2.73	0.52
1:B:152:ARG:HH11	1:B:152:ARG:CA	2.21	0.52
1:D:249:VAL:O	1:D:250:GLY:C	2.53	0.52
1:F:86:LEU:HD12	1:F:108:LEU:HB2	1.92	0.52
1:F:357:ILE:HD11	1:F:414:GLN:HB3	1.91	0.52
1:F:485:VAL:O	1:F:485:VAL:HG12	2.09	0.52
1:F:518:ALA:CB	1:F:580:PRO:HG3	2.39	0.52
1:G:27:THR:O	1:G:27:THR:CG2	2.38	0.52
1:H:93:GLN:N	1:H:94:PRO:CD	2.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:496:GLU:C	1:H:498:VAL:H	2.17	0.52
1:J:494:THR:O	1:J:495:SER:C	2.52	0.52
1:J:644:LEU:CD1	1:N:549:LEU:HB3	2.34	0.52
5:K:649:MYR:H71	1:L:200:CYS:SG	2.45	0.52
1:L:158:LEU:HD23	1:L:158:LEU:N	2.23	0.52
1:L:371:PRO:CB	1:L:459:LEU:HD11	2.39	0.52
1:L:531:THR:O	1:L:532:ASP:C	2.50	0.52
1:L:566:TRP:NE1	1:N:195:PRO:HD3	2.24	0.52
1:N:141:GLN:C	1:N:143:MET:H	2.16	0.52
1:N:269:LYS:O	1:N:270:ASP:HB2	2.10	0.52
1:N:368:THR:CG2	1:N:446:PRO:HG3	2.38	0.52
1:P:58:ILE:HG12	1:P:127:LEU:HG	1.90	0.52
1:P:345:ILE:O	1:P:346:ASP:C	2.52	0.52
1:P:357:ILE:HD11	1:P:414:GLN:HB3	1.91	0.52
1:R:95:LEU:HD21	1:R:207:PHE:CZ	2.44	0.52
1:T:86:LEU:HD12	1:T:108:LEU:HB2	1.92	0.52
1:T:321:THR:HG23	1:T:324:GLY:O	2.09	0.52
1:T:357:ILE:CG2	1:T:359:PRO:HD3	2.36	0.52
2:V:61:VAL:HG11	2:V:278:ILE:HA	1.92	0.52
2:V:275:GLN:HE22	2:V:389:PHE:HD2	1.58	0.52
3:W:102:ARG:HH11	3:W:102:ARG:CG	2.21	0.52
3:W:210:LEU:N	3:W:211:PRO:HD2	2.25	0.52
3:W:874:TYR:CE1	3:W:876:GLN:HG3	2.42	0.52
4:X:722:ASN:CG	4:X:723:ASP:N	2.67	0.52
4:Y:197:ASP:OD2	4:Y:310:LYS:HD3	2.10	0.52
4:Y:252:LEU:CD1	4:Y:336:ARG:HG2	2.40	0.52
4:Y:1074:VAL:CG1	4:Y:1075:LEU:N	2.71	0.52
1:B:321:THR:HG23	1:B:324:GLY:O	2.09	0.52
1:B:476:TYR:CD1	1:B:506:ALA:HB3	2.44	0.52
1:B:485:VAL:O	1:B:485:VAL:HG12	2.09	0.52
1:D:93:GLN:N	1:D:94:PRO:CD	2.73	0.52
1:D:345:ILE:O	1:D:346:ASP:C	2.52	0.52
1:H:368:THR:CG2	1:H:446:PRO:HG3	2.38	0.52
1:J:269:LYS:O	1:J:270:ASP:HB2	2.09	0.52
1:J:342:ASN:OD1	1:J:431:ILE:HG21	2.10	0.52
1:J:371:PRO:HB2	1:J:459:LEU:CD1	2.39	0.52
1:J:545:VAL:CG2	1:L:641:ILE:HD11	2.40	0.52
1:K:24:SER:HB3	1:L:176:ALA:N	2.24	0.52
1:L:518:ALA:CB	1:L:580:PRO:HG3	2.39	0.52
1:N:422:LEU:O	1:N:423:GLN:HB3	2.08	0.52
1:N:431:ILE:HD13	1:N:437:ILE:HG23	1.83	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:624:LEU:HD22	1:N:628:GLN:OE1	2.08	0.52
1:P:342:ASN:OD1	1:P:431:ILE:HG21	2.10	0.52
1:R:287:PRO:HG2	1:R:471:LEU:CD1	2.39	0.52
1:T:93:GLN:N	1:T:94:PRO:CD	2.73	0.52
1:T:296:PRO:C	1:T:298:PHE:N	2.68	0.52
1:T:345:ILE:O	1:T:346:ASP:C	2.52	0.52
1:T:371:PRO:HB2	1:T:459:LEU:CD1	2.39	0.52
2:U:121:ASP:C	2:U:123:ASN:N	2.66	0.52
3:W:5:PHE:CD1	3:W:306:ARG:NH1	2.77	0.52
3:W:95:PHE:HD2	3:W:125:PHE:CG	2.28	0.52
3:W:167:ASP:OD1	3:W:167:ASP:N	2.43	0.52
3:W:282:VAL:HG12	3:W:283:THR:N	2.22	0.52
3:W:398:LEU:HD22	3:W:792:THR:HG21	1.92	0.52
3:W:424:SER:CB	3:W:425:PRO:CD	2.87	0.52
3:W:697:PHE:O	3:W:700:VAL:HG12	2.10	0.52
3:W:782:THR:O	3:W:786:VAL:HG23	2.09	0.52
3:W:823:THR:HG21	3:W:846:ILE:HG23	1.91	0.52
4:X:531:CYS:SG	4:X:818:ILE:HD11	2.49	0.52
4:Y:277:VAL:CG1	4:Y:278:LEU:HG	2.34	0.52
4:Y:782:ASN:HB3	4:Y:784:LEU:HD11	1.92	0.52
1:D:273:LEU:HA	1:F:630:LEU:HD11	1.90	0.52
1:D:371:PRO:HB3	1:D:459:LEU:HD11	1.90	0.52
1:D:476:TYR:CD1	1:D:506:ALA:HB3	2.45	0.52
1:D:518:ALA:CB	1:D:580:PRO:HG3	2.39	0.52
1:E:9:ASN:HB3	1:F:209:ASN:CG	2.35	0.52
1:F:58:ILE:HG13	1:F:127:LEU:HD23	1.91	0.52
1:F:96:PHE:CD1	1:F:159:TRP:HH2	2.28	0.52
1:F:609:ARG:HD2	1:G:29:THR:HG22	1.91	0.52
1:J:321:THR:HG23	1:J:324:GLY:O	2.09	0.52
1:J:476:TYR:CD1	1:J:506:ALA:HB3	2.44	0.52
1:K:9:ASN:HB3	1:L:209:ASN:CG	2.35	0.52
1:L:342:ASN:OD1	1:L:431:ILE:HG21	2.10	0.52
1:L:496:GLU:C	1:L:498:VAL:H	2.17	0.52
1:N:342:ASN:OD1	1:N:431:ILE:HG21	2.10	0.52
1:P:485:VAL:O	1:P:485:VAL:HG12	2.09	0.52
1:R:50:PRO:HG3	1:R:56:ALA:HB2	1.91	0.52
1:R:93:GLN:N	1:R:94:PRO:CD	2.73	0.52
1:R:269:LYS:O	1:R:270:ASP:HB2	2.09	0.52
1:R:411:VAL:O	1:R:412:ARG:CB	2.56	0.52
1:T:49:ARG:NH1	1:T:115:THR:HG22	2.18	0.52
1:T:249:VAL:O	1:T:250:GLY:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:342:ASN:OD1	1:T:431:ILE:HG21	2.10	0.52
3:W:591:ASP:O	3:W:591:ASP:CG	2.53	0.52
3:W:607:LEU:CD2	3:W:638:HIS:HB3	2.40	0.52
3:W:940:VAL:O	3:W:940:VAL:HG12	2.10	0.52
4:X:241:ASN:HB2	4:X:1148:SER:HG	1.75	0.52
4:X:249:TRP:CZ3	4:X:250:ALA:HB2	2.45	0.52
4:X:1123:GLN:HG3	4:X:1127:CYS:SG	2.49	0.52
4:Y:317:PHE:N	4:Y:317:PHE:CD1	2.77	0.52
4:Y:560:LEU:HD11	4:Y:721:VAL:HG23	1.91	0.52
4:Y:1019:THR:H	4:Y:1032:ILE:HG22	1.74	0.52
4:Y:1169:TRP:N	4:Y:1169:TRP:CD1	2.77	0.52
1:B:141:GLN:C	1:B:143:MET:N	2.63	0.52
1:B:419:MET:O	1:B:419:MET:HE3	2.08	0.52
1:B:496:GLU:C	1:B:498:VAL:H	2.17	0.52
1:F:266:MET:HE3	1:F:605:GLY:HA2	1.91	0.52
1:F:321:THR:HG23	1:F:324:GLY:O	2.09	0.52
1:F:360:TYR:CD2	1:F:361:ASP:N	2.77	0.52
1:J:86:LEU:HD12	1:J:108:LEU:HB2	1.92	0.52
1:J:195:PRO:HD3	1:N:566:TRP:NE1	2.24	0.52
1:J:249:VAL:O	1:J:250:GLY:C	2.53	0.52
1:L:144:ASN:C	1:L:146:GLN:N	2.65	0.52
1:L:494:THR:HG23	1:L:497:GLU:OE1	2.08	0.52
1:L:549:LEU:HB3	1:N:644:LEU:CD1	2.34	0.52
1:N:58:ILE:HG13	1:N:127:LEU:HD23	1.91	0.52
1:N:86:LEU:HD12	1:N:108:LEU:HB2	1.92	0.52
1:N:93:GLN:N	1:N:94:PRO:CD	2.73	0.52
1:O:24:SER:HB3	1:P:176:ALA:N	2.24	0.52
1:P:141:GLN:C	1:P:143:MET:H	2.16	0.52
1:P:196:LEU:H	1:P:196:LEU:HD22	1.73	0.52
1:P:411:VAL:O	1:P:412:ARG:CB	2.56	0.52
1:R:238:VAL:HG11	1:T:82:PHE:CZ	2.45	0.52
1:R:496:GLU:C	1:R:498:VAL:H	2.17	0.52
1:R:545:VAL:CG2	1:T:641:ILE:HD11	2.40	0.52
1:T:431:ILE:CG1	1:T:437:ILE:HG21	2.38	0.52
1:T:484:ILE:HG22	1:T:485:VAL:H	1.73	0.52
2:U:71:LEU:O	2:U:71:LEU:HD23	2.10	0.52
3:W:226:VAL:CG1	3:W:239:LEU:HD22	2.40	0.52
3:W:1204:LEU:HB3	3:W:1227:TYR:HD2	1.70	0.52
4:X:259:LEU:O	4:X:259:LEU:HD12	2.10	0.52
4:X:349:VAL:C	4:X:350:LEU:HD12	2.34	0.52
4:X:930:ARG:HH22	4:Y:692:THR:HG21	1.73	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1013:VAL:CG1	4:X:1014:VAL:N	2.72	0.52
4:X:1108:ASN:C	4:X:1110:ALA:N	2.65	0.52
4:Y:416:ILE:HG21	4:Y:1204:LEU:CD1	2.40	0.52
4:Y:448:SER:HB2	4:Y:664:GLY:CA	2.39	0.52
4:Y:497:ILE:HG23	4:Y:498:THR:N	2.25	0.52
1:B:95:LEU:HD21	1:B:207:PHE:CZ	2.44	0.52
1:B:249:VAL:O	1:B:250:GLY:C	2.53	0.52
1:B:518:ALA:CB	1:B:580:PRO:HG3	2.39	0.52
1:D:371:PRO:HB2	1:D:459:LEU:CD1	2.39	0.52
1:E:24:SER:HB3	1:F:176:ALA:N	2.24	0.52
1:F:566:TRP:NE1	1:H:195:PRO:HD3	2.24	0.52
1:G:28:SER:HB2	1:H:214:ARG:O	2.10	0.52
1:H:371:PRO:HB2	1:H:459:LEU:CD1	2.39	0.52
1:L:321:THR:HG23	1:L:324:GLY:O	2.09	0.52
1:L:345:ILE:O	1:L:346:ASP:C	2.52	0.52
1:N:491:ALA:HB2	1:N:592:THR:CB	2.32	0.52
1:O:9:ASN:HB3	1:P:209:ASN:CG	2.35	0.52
1:P:60:SER:HA	3:W:379:VAL:HB	1.92	0.52
1:P:86:LEU:HD12	1:P:108:LEU:HB2	1.92	0.52
1:P:93:GLN:N	1:P:94:PRO:CD	2.73	0.52
1:R:476:TYR:CD1	1:R:506:ALA:HB3	2.44	0.52
1:T:312:ASN:CG	1:T:316:ILE:HD11	2.34	0.52
2:U:16:GLN:HG3	2:U:17:PRO:CD	2.38	0.52
2:U:369:HIS:O	2:U:373:MET:HG2	2.09	0.52
2:V:54:TRP:HZ2	4:X:1037:VAL:HG11	1.75	0.52
3:W:13:LEU:H	3:W:385:THR:HA	1.75	0.52
3:W:31:LEU:HD11	3:W:96:VAL:HG13	1.91	0.52
3:W:113:THR:CB	3:W:118:LEU:HD12	2.39	0.52
3:W:631:VAL:HG13	3:W:632:PHE:N	2.25	0.52
3:W:649:ILE:O	3:W:1010:LEU:HD11	2.10	0.52
3:W:662:ARG:HG3	3:W:662:ARG:O	2.09	0.52
4:X:354:THR:CG2	4:X:1151:ALA:O	2.58	0.52
4:X:898:ALA:HB1	4:X:929:PRO:HB2	1.92	0.52
4:X:935:SER:HA	4:X:949:HIS:HA	1.91	0.52
4:Y:278:LEU:HD13	4:Y:891:PHE:HZ	1.75	0.52
4:Y:798:VAL:HG12	4:Y:799:ASP:H	1.75	0.52
4:Y:835:HIS:CE1	4:Y:1213:ALA:H	2.27	0.52
4:Y:1100:LEU:O	4:Y:1103:TRP:N	2.39	0.52
1:B:196:LEU:HD22	1:B:196:LEU:H	1.73	0.52
1:D:368:THR:CG2	1:D:446:PRO:HG3	2.38	0.52
1:F:371:PRO:HB3	1:F:459:LEU:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:96:PHE:CD1	1:H:159:TRP:HH2	2.28	0.52
1:H:266:MET:HE3	1:H:605:GLY:HA2	1.91	0.52
1:H:344:MET:HE2	1:H:502:LEU:CD1	2.37	0.52
1:H:411:VAL:O	1:H:412:ARG:CB	2.57	0.52
1:H:476:TYR:CD1	1:H:506:ALA:HB3	2.44	0.52
1:J:345:ILE:O	1:J:346:ASP:C	2.52	0.52
1:L:50:PRO:HG3	1:L:56:ALA:HB2	1.91	0.52
1:L:141:GLN:C	1:L:143:MET:H	2.16	0.52
1:N:249:VAL:O	1:N:250:GLY:C	2.53	0.52
1:Q:28:SER:HB2	1:R:214:ARG:O	2.10	0.52
1:R:321:THR:HG23	1:R:324:GLY:O	2.09	0.52
1:S:28:SER:HB2	1:T:214:ARG:O	2.10	0.52
1:T:95:LEU:HD21	1:T:207:PHE:CZ	2.44	0.52
1:T:96:PHE:CD1	1:T:159:TRP:HH2	2.28	0.52
1:T:266:MET:HE3	1:T:605:GLY:HA2	1.91	0.52
2:U:40:ARG:HD2	2:U:141:ASP:OD1	2.09	0.52
2:V:78:PRO:C	2:V:80:ALA:H	2.18	0.52
3:W:47:LEU:HD11	3:W:327:ILE:HG21	1.92	0.52
3:W:558:VAL:CG2	3:W:561:GLY:H	2.23	0.52
3:W:1273:LEU:HD22	3:W:1273:LEU:N	2.24	0.52
4:X:675:MET:HE2	4:X:768:GLN:HE22	1.75	0.52
4:X:792:GLN:HB2	4:X:931:ILE:HG21	1.91	0.52
4:X:828:GLU:OE1	4:X:828:GLU:HA	2.10	0.52
4:X:880:LEU:H	4:X:880:LEU:HD12	1.74	0.52
4:X:931:ILE:CD1	4:Y:689:VAL:CG1	2.85	0.52
4:X:1149:THR:HG21	4:X:1162:ALA:N	2.25	0.52
4:Y:160:PHE:HD1	4:Y:1206:GLY:O	1.93	0.52
4:Y:322:THR:CG2	4:Y:348:ALA:HB2	2.38	0.52
1:A:9:ASN:HB3	1:B:209:ASN:CG	2.35	0.52
1:B:285:PHE:CE2	1:B:484:ILE:HD12	2.45	0.52
1:B:494:THR:O	1:B:495:SER:C	2.52	0.52
1:D:64:VAL:HG13	1:D:64:VAL:O	2.10	0.52
1:D:321:THR:HG23	1:D:324:GLY:O	2.09	0.52
1:D:484:ILE:HG22	1:D:485:VAL:H	1.73	0.52
1:F:285:PHE:CE2	1:F:484:ILE:HD12	2.45	0.52
1:H:86:LEU:HD12	1:H:108:LEU:HB2	1.92	0.52
1:H:582:LEU:C	1:H:584:LEU:H	2.18	0.52
1:L:296:PRO:C	1:L:298:PHE:N	2.68	0.52
1:M:28:SER:HB2	1:N:214:ARG:O	2.10	0.52
1:N:296:PRO:O	1:N:297:ALA:HB3	2.08	0.52
1:N:357:ILE:HD11	1:N:414:GLN:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:237:GLU:CD	1:R:46:LYS:NZ	2.68	0.52
1:R:367:SER:O	1:R:368:THR:HB	2.09	0.52
1:T:99:THR:OG1	1:T:101:THR:CG2	2.58	0.52
2:U:27:GLN:O	4:X:882:PRO:HB3	2.08	0.52
2:V:196:LEU:HD12	2:V:197:PRO:HD2	1.92	0.52
3:W:148:ILE:HG13	3:W:151:ILE:HD11	1.92	0.52
3:W:213:ARG:HE	3:W:217:LEU:HD21	1.75	0.52
3:W:453:PRO:HB2	3:W:456:GLN:HG2	1.92	0.52
3:W:657:LEU:N	3:W:657:LEU:HD12	2.23	0.52
3:W:1087:LEU:HD21	3:W:1096:PHE:CB	2.40	0.52
3:W:1185:THR:HG22	3:W:1190:ARG:HG2	1.92	0.52
4:X:234:PRO:HG3	4:X:348:ALA:HB2	1.92	0.52
4:X:354:THR:HG21	4:X:1152:ALA:HA	1.91	0.52
4:X:1106:LYS:O	4:X:1113:PRO:HD3	2.10	0.52
4:Y:607:HIS:O	4:Y:609:THR:N	2.42	0.52
4:Y:969:MET:O	4:Y:979:ARG:NH2	2.42	0.52
1:B:49:ARG:NH1	1:B:115:THR:HG22	2.18	0.51
1:B:521:VAL:HG23	1:B:522:GLY:H	1.74	0.51
1:B:582:LEU:C	1:B:584:LEU:H	2.19	0.51
1:D:287:PRO:HG2	1:D:471:LEU:CD1	2.39	0.51
1:D:443:PHE:HB2	1:D:457:PRO:CB	2.24	0.51
1:D:494:THR:O	1:D:495:SER:C	2.52	0.51
1:F:342:ASN:OD1	1:F:431:ILE:HG21	2.10	0.51
1:F:411:VAL:O	1:F:412:ARG:CB	2.56	0.51
1:H:269:LYS:O	1:H:270:ASP:HB2	2.10	0.51
1:H:431:ILE:CG1	1:H:437:ILE:HG21	2.38	0.51
1:H:485:VAL:O	1:H:485:VAL:HG12	2.10	0.51
1:J:367:SER:O	1:J:368:THR:HB	2.08	0.51
1:J:521:VAL:HG23	1:J:522:GLY:H	1.74	0.51
1:L:249:VAL:O	1:L:250:GLY:C	2.53	0.51
1:N:285:PHE:CE2	1:N:484:ILE:HD12	2.45	0.51
1:N:431:ILE:CG1	1:N:437:ILE:HG21	2.38	0.51
1:N:540:VAL:CG2	1:N:569:ALA:HB3	2.40	0.51
1:O:9:ASN:HB2	1:P:209:ASN:CG	2.35	0.51
1:P:95:LEU:HD21	1:P:207:PHE:CZ	2.44	0.51
1:P:476:TYR:CD1	1:P:506:ALA:HB3	2.45	0.51
1:R:86:LEU:HD12	1:R:108:LEU:HB2	1.92	0.51
1:R:141:GLN:C	1:R:143:MET:H	2.16	0.51
1:R:158:LEU:N	1:R:158:LEU:HD23	2.23	0.51
1:T:284:VAL:HG12	1:T:284:VAL:O	2.10	0.51
1:T:357:ILE:HG12	1:T:416:ARG:NH1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:10:THR:HG23	2:U:73:GLY:HA3	1.92	0.51
2:V:66:ILE:HD11	2:V:387:GLN:NE2	2.25	0.51
3:W:184:ASP:OD2	3:W:186:SER:HB3	2.09	0.51
3:W:672:THR:HG22	3:W:1081:VAL:HG22	1.91	0.51
3:W:971:VAL:HG13	3:W:972:PRO:CD	2.14	0.51
4:X:626:LEU:O	4:X:628:PRO:HD3	2.11	0.51
4:X:644:GLU:HA	4:X:644:GLU:OE2	2.10	0.51
4:X:883:ARG:HB3	4:X:883:ARG:HH11	1.74	0.51
4:X:979:ARG:HG3	4:X:1140:GLU:HG3	1.91	0.51
4:Y:238:GLY:O	4:Y:239:ALA:C	2.53	0.51
4:Y:484:THR:HA	4:Y:754:GLU:OE2	2.10	0.51
4:Y:685:PRO:HD3	4:Y:749:HIS:ND1	2.25	0.51
4:Y:990:ASN:HB2	4:Y:1131:ARG:HB2	1.92	0.51
1:B:96:PHE:CD1	1:B:159:TRP:HH2	2.28	0.51
1:C:24:SER:HB3	1:D:176:ALA:N	2.24	0.51
1:C:28:SER:HB2	1:D:214:ARG:O	2.10	0.51
1:D:269:LYS:O	1:D:270:ASP:HB2	2.09	0.51
1:D:431:ILE:CG1	1:D:437:ILE:HG21	2.38	0.51
1:D:521:VAL:HG23	1:D:522:GLY:H	1.74	0.51
1:F:93:GLN:N	1:F:94:PRO:CD	2.73	0.51
1:F:237:GLU:CB	1:H:46:LYS:NZ	2.67	0.51
1:F:269:LYS:O	1:F:270:ASP:HB2	2.09	0.51
1:H:249:VAL:O	1:H:250:GLY:C	2.52	0.51
1:H:285:PHE:CE2	1:H:484:ILE:HD12	2.45	0.51
1:J:92:TRP:CZ2	1:J:160:GLN:HB2	2.46	0.51
1:J:94:PRO:HG2	1:J:210:VAL:CG2	2.41	0.51
1:J:287:PRO:HG2	1:J:471:LEU:CD1	2.39	0.51
1:J:641:ILE:HD11	1:N:545:VAL:CG2	2.40	0.51
1:L:86:LEU:HD12	1:L:108:LEU:HB2	1.92	0.51
1:N:183:TRP:CZ3	1:N:186:LEU:HD23	2.46	0.51
1:O:29:THR:HG22	1:T:609:ARG:HD2	1.91	0.51
1:P:59:ASP:OD1	1:P:60:SER:N	2.43	0.51
1:P:298:PHE:CZ	1:T:416:ARG:HG3	2.45	0.51
1:P:472:ARG:NH1	1:R:530:ARG:CD	2.68	0.51
1:Q:9:ASN:HB3	1:R:209:ASN:CG	2.35	0.51
1:R:285:PHE:CE2	1:R:484:ILE:HD12	2.45	0.51
1:S:24:SER:HB3	1:T:176:ALA:N	2.24	0.51
1:T:50:PRO:HG3	1:T:56:ALA:HB2	1.91	0.51
1:T:431:ILE:CD1	1:T:437:ILE:HG23	2.39	0.51
2:U:94:ASP:OD1	4:X:949:HIS:NE2	2.36	0.51
2:U:106:ILE:HD12	2:U:107:GLN:H	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:248:LEU:CD1	4:X:628:PRO:HD2	2.39	0.51
3:W:751:SER:C	3:W:753:GLY:H	2.17	0.51
3:W:830:HIS:HE1	3:W:890:CYS:SG	2.32	0.51
3:W:843:LEU:HG	3:W:854:MET:SD	2.49	0.51
4:X:1060:ARG:HH12	4:X:1105:SER:HA	1.76	0.51
4:X:1125:TYR:CZ	4:X:1127:CYS:HB3	2.45	0.51
4:Y:440:ILE:CG1	4:Y:1202:PRO:HG2	2.36	0.51
4:Y:493:LEU:O	4:Y:497:ILE:HG22	2.09	0.51
4:Y:718:THR:HG23	4:Y:719:ALA:N	2.24	0.51
4:Y:919:LEU:HD22	4:Y:920:LEU:HB2	1.92	0.51
1:A:28:SER:HB2	1:B:214:ARG:O	2.10	0.51
1:B:287:PRO:HG2	1:B:471:LEU:CD1	2.39	0.51
1:D:47:LEU:C	1:D:48:TRP:HD1	2.17	0.51
1:D:183:TRP:CZ3	1:D:186:LEU:HD23	2.45	0.51
1:D:298:PHE:CZ	1:H:416:ARG:HG3	2.46	0.51
1:F:357:ILE:HG12	1:F:416:ARG:NH1	2.26	0.51
1:F:582:LEU:C	1:F:584:LEU:H	2.18	0.51
1:H:357:ILE:HG12	1:H:416:ARG:NH1	2.26	0.51
1:I:32:PRO:HD2	1:K:38:PRO:HB2	1.93	0.51
1:J:93:GLN:N	1:J:94:PRO:CD	2.73	0.51
1:J:296:PRO:C	1:J:298:PHE:N	2.68	0.51
1:J:422:LEU:O	1:J:423:GLN:HB3	2.08	0.51
1:L:96:PHE:CD1	1:L:159:TRP:HH2	2.28	0.51
1:L:238:VAL:HG11	1:N:82:PHE:CZ	2.45	0.51
1:L:484:ILE:HG22	1:L:485:VAL:H	1.73	0.51
1:N:357:ILE:HG12	1:N:416:ARG:NH1	2.26	0.51
1:P:96:PHE:CD1	1:P:159:TRP:HH2	2.28	0.51
1:P:183:TRP:CZ3	1:P:186:LEU:HD23	2.45	0.51
1:P:249:VAL:O	1:P:250:GLY:C	2.53	0.51
1:P:566:TRP:NE1	1:R:195:PRO:HD3	2.24	0.51
1:P:641:ILE:HD11	1:T:545:VAL:CG2	2.40	0.51
1:Q:9:ASN:HB2	1:R:209:ASN:CG	2.35	0.51
1:R:431:ILE:CG1	1:R:437:ILE:HG21	2.38	0.51
1:T:496:GLU:C	1:T:498:VAL:H	2.17	0.51
2:U:96:VAL:O	2:U:96:VAL:HG12	2.11	0.51
2:V:184:HIS:CE1	4:Y:436:LEU:CD1	2.91	0.51
3:W:407:ALA:O	3:W:779:MET:HG2	2.10	0.51
3:W:425:PRO:HA	3:W:702:ASP:O	2.09	0.51
3:W:480:ARG:HE	3:W:649:ILE:HG22	1.73	0.51
3:W:489:LYS:HG3	3:W:649:ILE:HG13	1.91	0.51
3:W:1136:LEU:HD11	3:W:1221:PHE:HZ	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:403:ILE:HG12	4:X:1197:TYR:CE1	2.46	0.51
4:X:651:PRO:HG3	4:X:679:TRP:CZ3	2.45	0.51
4:X:1168:ARG:O	4:X:1189:THR:HA	2.11	0.51
4:Y:353:GLN:NE2	4:Y:358:GLN:HG2	2.25	0.51
1:B:86:LEU:HD12	1:B:108:LEU:HB2	1.92	0.51
1:B:144:ASN:C	1:B:146:GLN:N	2.65	0.51
1:D:114:THR:O	1:D:114:THR:HG22	2.10	0.51
1:D:566:TRP:NE1	1:F:195:PRO:HD3	2.24	0.51
1:F:431:ILE:CD1	1:F:437:ILE:HG23	2.39	0.51
1:G:24:SER:HB3	1:H:176:ALA:N	2.24	0.51
1:H:296:PRO:C	1:H:298:PHE:H	2.19	0.51
1:I:28:SER:HB2	1:J:214:ARG:O	2.10	0.51
1:J:357:ILE:HG12	1:J:416:ARG:NH1	2.26	0.51
1:J:416:ARG:HG3	1:L:298:PHE:CZ	2.46	0.51
1:L:44:THR:HG22	1:L:45:GLY:H	1.72	0.51
1:L:92:TRP:CZ2	1:L:160:GLN:HB2	2.46	0.51
1:L:93:GLN:N	1:L:94:PRO:CD	2.73	0.51
1:L:284:VAL:HG12	1:L:284:VAL:O	2.11	0.51
1:L:582:LEU:C	1:L:584:LEU:H	2.18	0.51
1:N:345:ILE:O	1:N:346:ASP:C	2.52	0.51
1:N:443:PHE:HE1	1:N:459:LEU:HD21	1.75	0.51
1:P:92:TRP:CZ2	1:P:160:GLN:HB2	2.46	0.51
1:P:494:THR:H	1:P:497:GLU:CB	2.19	0.51
1:R:49:ARG:NH1	1:R:115:THR:HG22	2.18	0.51
1:R:238:VAL:HG21	1:T:78:MET:HE2	1.83	0.51
1:T:540:VAL:CG2	1:T:569:ALA:HB3	2.40	0.51
2:U:123:ASN:C	2:U:125:TYR:H	2.19	0.51
2:U:313:ALA:O	2:U:314:ASN:HB2	2.10	0.51
2:V:195:GLN:HE22	4:Y:377:ILE:CA	2.24	0.51
2:V:282:ALA:O	2:V:286:MET:HB2	2.09	0.51
3:W:160:ILE:O	3:W:161:ASP:HB2	2.10	0.51
3:W:173:ALA:CB	3:W:202:ALA:HB3	2.41	0.51
3:W:426:LEU:O	3:W:702:ASP:CB	2.58	0.51
3:W:448:ASP:OD1	3:W:673:ALA:HB2	2.10	0.51
3:W:557:ASP:O	3:W:559:VAL:HG23	2.11	0.51
3:W:829:ALA:O	3:W:850:LEU:HG	2.11	0.51
4:X:670:ILE:HG22	4:X:674:ARG:HB2	1.90	0.51
4:X:682:GLN:HB3	4:X:749:HIS:ND1	2.25	0.51
4:Y:203:SER:CB	4:Y:247:THR:HA	2.39	0.51
4:Y:354:THR:O	4:Y:357:ALA:N	2.43	0.51
4:Y:386:GLU:HG2	4:Y:1195:TYR:CE2	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:1034:ASP:C	4:Y:1036:ASN:N	2.68	0.51
1:C:32:PRO:HD2	1:E:38:PRO:HB2	1.92	0.51
1:D:195:PRO:HD3	1:H:566:TRP:NE1	2.24	0.51
1:D:360:TYR:CD2	1:D:361:ASP:N	2.77	0.51
1:D:540:VAL:CG2	1:D:569:ALA:HB3	2.41	0.51
1:F:416:ARG:HG3	1:H:298:PHE:CZ	2.46	0.51
1:H:50:PRO:HG3	1:H:56:ALA:HB2	1.91	0.51
1:H:92:TRP:CE2	1:H:156:VAL:CG2	2.94	0.51
1:H:94:PRO:HG2	1:H:210:VAL:CG2	2.41	0.51
1:J:237:GLU:CD	1:L:46:LYS:NZ	2.68	0.51
1:J:496:GLU:C	1:J:498:VAL:H	2.17	0.51
1:L:368:THR:CG2	1:L:446:PRO:HG3	2.38	0.51
1:N:92:TRP:CZ2	1:N:160:GLN:HB2	2.46	0.51
1:N:96:PHE:CD1	1:N:159:TRP:HH2	2.28	0.51
1:N:333:PRO:HG3	1:N:454:PHE:CA	2.41	0.51
1:N:476:TYR:CD1	1:N:506:ALA:HB3	2.45	0.51
1:R:431:ILE:CD1	1:R:437:ILE:HG23	2.39	0.51
1:T:92:TRP:CZ2	1:T:160:GLN:HB2	2.46	0.51
1:T:94:PRO:HG2	1:T:210:VAL:CG2	2.41	0.51
1:T:494:THR:O	1:T:495:SER:C	2.52	0.51
1:T:582:LEU:C	1:T:584:LEU:H	2.18	0.51
2:U:375:VAL:O	2:U:375:VAL:HG12	2.11	0.51
3:W:79:LEU:HD12	3:W:84:TRP:HA	1.93	0.51
3:W:1103:THR:C	3:W:1104:LEU:HD23	2.35	0.51
3:W:1219:ILE:HG23	3:W:1219:ILE:O	2.11	0.51
3:W:1242:PRO:HB2	3:W:1243:TYR:CD1	2.45	0.51
4:X:302:LEU:CD1	4:X:905:VAL:HG22	2.41	0.51
4:X:518:LEU:HB2	4:X:568:PHE:CE1	2.46	0.51
4:Y:248:ASN:HB3	4:Y:251:SER:HB2	1.93	0.51
4:Y:275:LYS:NZ	4:Y:285:ASN:HA	2.26	0.51
4:Y:480:LEU:HD22	4:Y:529:TRP:HZ3	1.76	0.51
4:Y:593:LEU:HD12	4:Y:597:GLU:CG	2.40	0.51
4:Y:601:ILE:HG22	4:Y:603:VAL:HG12	1.91	0.51
4:Y:977:VAL:HA	4:Y:1081:TYR:O	2.10	0.51
4:Y:986:GLN:HG3	4:Y:1135:TYR:CE1	2.45	0.51
1:B:92:TRP:CE2	1:B:156:VAL:CG2	2.94	0.51
1:B:166:ALA:HA	1:B:194:LEU:HD21	1.93	0.51
1:B:269:LYS:O	1:B:270:ASP:HB2	2.09	0.51
1:B:333:PRO:HG3	1:B:454:PHE:CA	2.41	0.51
1:B:342:ASN:OD1	1:B:431:ILE:HG21	2.10	0.51
1:B:357:ILE:HG12	1:B:416:ARG:NH1	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:9:ASN:HB3	1:D:209:ASN:CG	2.35	0.51
1:D:342:ASN:OD1	1:D:431:ILE:HG21	2.10	0.51
1:D:545:VAL:CG2	1:F:641:ILE:HD11	2.40	0.51
1:E:28:SER:HB2	1:F:214:ARG:O	2.10	0.51
1:F:92:TRP:CZ2	1:F:160:GLN:HB2	2.46	0.51
1:F:296:PRO:C	1:F:298:PHE:H	2.19	0.51
1:F:540:VAL:CG2	1:F:569:ALA:HB3	2.41	0.51
1:H:540:VAL:CG2	1:H:569:ALA:HB3	2.40	0.51
1:I:9:ASN:HB2	1:J:209:ASN:CG	2.35	0.51
1:J:82:PHE:CZ	1:N:238:VAL:HG11	2.45	0.51
1:J:183:TRP:NE1	1:J:187:LEU:HD12	2.26	0.51
1:J:566:TRP:NE1	1:L:195:PRO:HD3	2.24	0.51
1:K:28:SER:HB2	1:L:214:ARG:O	2.10	0.51
1:L:92:TRP:CE2	1:L:156:VAL:CG2	2.94	0.51
1:N:496:GLU:C	1:N:498:VAL:H	2.17	0.51
1:P:455:SER:O	1:T:410:ASN:ND2	2.41	0.51
1:P:496:GLU:C	1:P:498:VAL:H	2.18	0.51
1:R:416:ARG:HG3	1:T:298:PHE:CZ	2.46	0.51
1:R:494:THR:O	1:R:495:SER:C	2.52	0.51
2:U:128:TYR:HA	2:U:135:MET:SD	2.51	0.51
2:U:136:TRP:CE2	2:U:197:PRO:HA	2.46	0.51
3:W:49:PHE:CZ	3:W:54:ARG:HA	2.45	0.51
3:W:66:ASN:HD22	3:W:176:LYS:HE3	1.76	0.51
3:W:246:ASP:HB2	3:W:255:ILE:O	2.11	0.51
3:W:955:VAL:HG21	3:W:964:VAL:CG1	2.41	0.51
3:W:1196:LEU:H	3:W:1196:LEU:HD22	1.76	0.51
4:X:355:LYS:HE3	4:X:1149:THR:CG2	2.41	0.51
4:X:432:ILE:HD13	4:X:432:ILE:C	2.35	0.51
4:X:611:PRO:O	4:X:612:ALA:C	2.52	0.51
4:X:673:ASN:C	4:X:674:ARG:HD2	2.34	0.51
4:X:758:LEU:O	4:X:762:THR:HG23	2.11	0.51
4:X:782:ASN:HB2	4:X:784:LEU:HD11	1.93	0.51
4:X:817:ALA:O	4:X:818:ILE:C	2.53	0.51
4:X:1124:VAL:HG23	4:X:1125:TYR:N	2.26	0.51
4:Y:210:ILE:O	4:Y:239:ALA:HB3	2.10	0.51
4:Y:237:GLU:HA	4:Y:1151:ALA:HB3	1.91	0.51
4:Y:543:THR:HG22	4:Y:577:SER:N	2.21	0.51
4:Y:1054:VAL:O	4:Y:1055:SER:HB3	2.11	0.51
4:Y:1146:LEU:HD11	4:Y:1149:THR:HG22	1.91	0.51
1:D:96:PHE:CD1	1:D:159:TRP:HH2	2.28	0.51
1:D:285:PHE:CE2	1:D:484:ILE:HD12	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:416:ARG:HG3	1:F:298:PHE:CZ	2.46	0.51
1:F:494:THR:H	1:F:497:GLU:CB	2.19	0.51
1:F:521:VAL:HG23	1:F:522:GLY:H	1.74	0.51
1:H:342:ASN:OD1	1:H:431:ILE:HG21	2.10	0.51
1:J:196:LEU:HD22	1:J:196:LEU:H	1.73	0.51
1:J:238:VAL:HG11	1:L:82:PHE:CZ	2.45	0.51
1:J:475:THR:O	1:J:505:ASP:HB2	2.11	0.51
1:L:166:ALA:HA	1:L:194:LEU:HD21	1.93	0.51
1:L:238:VAL:HG21	1:N:78:MET:HE2	1.83	0.51
1:L:287:PRO:HG2	1:L:471:LEU:CD1	2.39	0.51
1:L:545:VAL:CG2	1:N:641:ILE:HD11	2.40	0.51
1:P:416:ARG:HG3	1:R:298:PHE:CZ	2.46	0.51
1:R:183:TRP:NE1	1:R:187:LEU:HD12	2.26	0.51
1:R:237:GLU:OE1	1:T:46:LYS:NZ	2.38	0.51
1:R:284:VAL:O	1:R:284:VAL:HG12	2.10	0.51
1:T:183:TRP:CZ3	1:T:186:LEU:HD23	2.45	0.51
1:T:287:PRO:HG2	1:T:471:LEU:CD1	2.39	0.51
2:U:4:ARG:HH12	3:W:217:LEU:HG	1.75	0.51
2:U:27:GLN:O	4:X:882:PRO:CD	2.55	0.51
2:U:89:GLY:O	2:U:90:ILE:HD13	2.10	0.51
2:V:85:THR:HA	2:V:110:PRO:O	2.09	0.51
2:V:184:HIS:CE1	4:Y:436:LEU:CD2	2.93	0.51
3:W:38:ASN:ND2	3:W:40:HIS:HB3	2.26	0.51
3:W:68:TRP:CD2	3:W:126:LEU:HD12	2.46	0.51
3:W:359:TYR:OH	3:W:375:PRO:HB3	2.10	0.51
3:W:800:PHE:CD1	3:W:1005:GLY:HA2	2.45	0.51
3:W:821:GLU:HG3	3:W:824:ARG:HH21	1.76	0.51
3:W:1161:TYR:O	3:W:1190:ARG:NH1	2.44	0.51
3:W:1180:LYS:HG2	3:W:1280:VAL:HG22	1.93	0.51
3:W:1196:LEU:HD22	3:W:1196:LEU:N	2.25	0.51
3:W:1243:TYR:HE1	3:W:1298:ILE:HD11	1.72	0.51
4:X:252:LEU:HD12	4:X:252:LEU:C	2.34	0.51
4:X:671:PRO:HB2	4:X:674:ARG:CG	2.39	0.51
4:X:746:TYR:OH	4:X:754:GLU:OE2	2.22	0.51
4:X:821:ALA:O	4:X:824:CYS:N	2.44	0.51
4:X:925:LEU:C	4:X:927:GLY:H	2.18	0.51
4:Y:219:LEU:HG	4:Y:350:LEU:HD21	1.91	0.51
4:Y:434:ILE:CG2	4:Y:1204:LEU:HD22	2.41	0.51
4:Y:602:GLY:HA3	4:Y:623:PRO:HG3	1.93	0.51
4:Y:876:ASP:HB2	4:Y:892:ASP:OD1	2.10	0.51
1:B:141:GLN:C	1:B:143:MET:H	2.16	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:360:TYR:CD2	1:B:361:ASP:N	2.77	0.51
1:D:63:ILE:CD1	1:D:63:ILE:N	2.50	0.51
1:D:92:TRP:CE2	1:D:156:VAL:CG2	2.94	0.51
1:D:496:GLU:C	1:D:498:VAL:H	2.17	0.51
1:F:306:TRP:O	1:F:306:TRP:CE3	2.64	0.51
1:F:545:VAL:CG2	1:H:641:ILE:HD11	2.40	0.51
1:H:357:ILE:HD11	1:H:414:GLN:HB3	1.91	0.51
1:I:9:ASN:HB3	1:J:209:ASN:CG	2.35	0.51
1:J:96:PHE:CD1	1:J:159:TRP:HH2	2.28	0.51
1:J:431:ILE:CD1	1:J:437:ILE:HG23	2.39	0.51
1:K:22:PRO:HD2	1:L:179:ALA:O	2.11	0.51
1:L:306:TRP:O	1:L:306:TRP:CE3	2.64	0.51
1:N:94:PRO:HG2	1:N:210:VAL:CG2	2.41	0.51
1:P:122:THR:O	1:P:123:ALA:C	2.54	0.51
1:R:122:THR:O	1:R:123:ALA:C	2.54	0.51
1:T:333:PRO:HG3	1:T:454:PHE:CA	2.41	0.51
1:T:357:ILE:HD11	1:T:414:GLN:CD	2.36	0.51
2:U:147:MET:HB3	2:U:288:GLN:NE2	2.26	0.51
2:U:168:ALA:C	2:U:170:THR:N	2.69	0.51
2:U:174:LEU:HD22	2:U:211:LEU:HD23	1.92	0.51
3:W:642:LEU:HA	3:W:658:VAL:O	2.10	0.51
3:W:766:LEU:HD13	3:W:841:ARG:NH2	2.18	0.51
3:W:914:VAL:HG12	3:W:918:ILE:CG1	2.40	0.51
4:X:315:SER:HB2	4:X:331:ARG:CD	2.40	0.51
4:X:331:ARG:NH2	4:X:1196:ARG:NE	2.58	0.51
4:X:493:LEU:HD11	4:X:497:ILE:HD12	1.91	0.51
4:X:1033:ASP:C	4:X:1033:ASP:OD2	2.53	0.51
4:Y:257:ARG:NH1	4:Y:309:LEU:O	2.44	0.51
4:Y:295:SER:HB2	4:Y:890:GLN:HE22	1.70	0.51
4:Y:403:ILE:HD13	4:Y:407:ARG:HG2	1.92	0.51
4:Y:586:PHE:HB2	4:Y:646:ILE:HD12	1.93	0.51
4:Y:1023:ARG:HD2	4:Y:1027:LEU:HD22	1.93	0.51
1:B:284:VAL:O	1:B:284:VAL:HG12	2.11	0.51
1:D:296:PRO:C	1:D:298:PHE:H	2.19	0.51
1:D:641:ILE:HD11	1:H:545:VAL:CG2	2.40	0.51
1:E:9:ASN:HB2	1:F:209:ASN:CG	2.35	0.51
1:F:475:THR:O	1:F:505:ASP:HB2	2.11	0.51
1:H:114:THR:O	1:H:114:THR:HG22	2.10	0.51
1:H:183:TRP:CZ3	1:H:186:LEU:HD23	2.46	0.51
1:H:306:TRP:CE3	1:H:306:TRP:O	2.64	0.51
1:H:333:PRO:HG3	1:H:454:PHE:CA	2.41	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:306:TRP:CE3	1:J:306:TRP:O	2.64	0.51
1:K:28:SER:HB3	1:L:215:TYR:HA	1.93	0.51
1:L:357:ILE:HG12	1:L:416:ARG:NH1	2.26	0.51
1:N:48:TRP:N	1:N:48:TRP:HD1	2.09	0.51
1:N:50:PRO:HG3	1:N:56:ALA:HB2	1.91	0.51
1:N:475:THR:O	1:N:505:ASP:HB2	2.11	0.51
1:P:46:LYS:NZ	1:T:237:GLU:CD	2.68	0.51
1:P:269:LYS:O	1:P:270:ASP:HB2	2.09	0.51
1:P:306:TRP:CE3	1:P:306:TRP:O	2.64	0.51
1:P:357:ILE:HD11	1:P:414:GLN:CD	2.36	0.51
1:P:368:THR:CG2	1:P:446:PRO:HG3	2.38	0.51
1:P:540:VAL:CG2	1:P:569:ALA:HB3	2.40	0.51
1:R:92:TRP:CE2	1:R:156:VAL:CG2	2.94	0.51
1:R:94:PRO:HG2	1:R:210:VAL:CG2	2.41	0.51
1:R:96:PHE:CD1	1:R:159:TRP:HH2	2.28	0.51
1:R:166:ALA:HA	1:R:194:LEU:HD21	1.93	0.51
1:R:296:PRO:C	1:R:298:PHE:N	2.67	0.51
1:R:345:ILE:O	1:R:346:ASP:C	2.52	0.51
1:R:357:ILE:HG12	1:R:416:ARG:NH1	2.26	0.51
1:T:369:SER:OG	1:T:443:PHE:CD2	2.64	0.51
1:T:475:THR:O	1:T:505:ASP:HB2	2.11	0.51
3:W:292:VAL:O	3:W:292:VAL:HG12	2.11	0.51
3:W:628:TRP:HA	3:W:631:VAL:HG12	1.93	0.51
3:W:748:ARG:HG2	3:W:757:THR:CG2	2.36	0.51
3:W:815:TYR:CG	3:W:1025:ILE:HD11	2.46	0.51
3:W:1075:PRO:HA	3:W:1087:LEU:CD1	2.40	0.51
4:X:483:VAL:CB	4:X:840:ALA:HB1	2.40	0.51
4:X:589:LEU:O	4:X:590:ALA:C	2.54	0.51
4:X:893:VAL:HG21	4:Y:687:LEU:O	2.11	0.51
4:X:997:ALA:HB2	4:X:1143:ASN:HB3	1.92	0.51
4:X:1017:PHE:CE1	4:Y:1211:ARG:HA	2.46	0.51
4:Y:334:GLU:O	4:Y:335:GLY:C	2.53	0.51
4:Y:665:SER:O	4:Y:666:ALA:HB3	2.11	0.51
1:A:28:SER:HB3	1:B:215:TYR:HA	1.93	0.51
1:B:114:THR:O	1:B:114:THR:HG22	2.11	0.51
1:B:183:TRP:NE1	1:B:187:LEU:HD12	2.26	0.51
1:B:306:TRP:CE3	1:B:306:TRP:O	2.64	0.51
1:B:431:ILE:CD1	1:B:437:ILE:HG23	2.39	0.51
1:D:333:PRO:HG3	1:D:454:PHE:CA	2.41	0.51
1:D:357:ILE:HD11	1:D:414:GLN:HB3	1.91	0.51
1:F:183:TRP:CZ3	1:F:186:LEU:HD23	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:203:TYR:O	1:F:206:GLU:N	2.44	0.51
1:F:496:GLU:C	1:F:498:VAL:H	2.17	0.51
1:J:114:THR:O	1:J:114:THR:HG22	2.11	0.51
1:J:137:ILE:HD11	1:J:142:ILE:HA	1.93	0.51
1:J:298:PHE:CZ	1:N:416:ARG:HG3	2.46	0.51
1:J:582:LEU:C	1:J:584:LEU:H	2.19	0.51
1:L:183:TRP:NE1	1:L:187:LEU:HD12	2.26	0.51
1:L:237:GLU:CD	1:N:46:LYS:NZ	2.68	0.51
1:N:141:GLN:C	1:N:143:MET:N	2.63	0.51
1:N:166:ALA:HA	1:N:194:LEU:HD21	1.93	0.51
1:P:333:PRO:HG3	1:P:454:PHE:CA	2.41	0.51
1:P:582:LEU:C	1:P:584:LEU:H	2.19	0.51
1:Q:22:PRO:HD2	1:R:179:ALA:O	2.11	0.51
5:Q:649:MYR:C2	1:R:191:LYS:HZ1	2.21	0.51
1:R:183:TRP:CZ3	1:R:186:LEU:HD23	2.46	0.51
1:R:273:LEU:HD23	1:R:273:LEU:O	2.12	0.51
1:T:48:TRP:N	1:T:48:TRP:HD1	2.09	0.51
1:T:137:ILE:CD1	1:T:142:ILE:HG13	2.41	0.51
2:V:181:PRO:HG2	4:Y:412:ASP:CG	2.35	0.51
3:W:1059:ALA:HB3	3:W:1096:PHE:HZ	1.76	0.51
4:X:448:SER:HB2	4:X:664:GLY:HA3	1.93	0.51
4:Y:560:LEU:HD21	4:Y:721:VAL:CG2	2.41	0.51
4:Y:945:VAL:O	4:Y:945:VAL:HG13	2.10	0.51
1:D:166:ALA:HA	1:D:194:LEU:HD21	1.93	0.50
1:D:575:MET:HE3	1:H:469:VAL:HG21	0.69	0.50
1:F:137:ILE:HD11	1:F:142:ILE:HA	1.93	0.50
1:F:144:ASN:C	1:F:146:GLN:N	2.65	0.50
1:H:92:TRP:CZ2	1:H:160:GLN:HB2	2.46	0.50
1:H:166:ALA:HA	1:H:194:LEU:HD21	1.93	0.50
1:H:345:ILE:O	1:H:346:ASP:C	2.52	0.50
1:J:166:ALA:HA	1:J:194:LEU:HD21	1.93	0.50
1:J:183:TRP:CZ3	1:J:186:LEU:HD23	2.46	0.50
1:J:285:PHE:CE2	1:J:484:ILE:HD12	2.45	0.50
1:J:357:ILE:HD11	1:J:414:GLN:CD	2.36	0.50
1:L:114:THR:O	1:L:114:THR:HG22	2.11	0.50
1:L:122:THR:O	1:L:123:ALA:C	2.54	0.50
1:L:285:PHE:CE2	1:L:484:ILE:HD12	2.45	0.50
1:L:475:THR:O	1:L:505:ASP:HB2	2.11	0.50
1:N:296:PRO:C	1:N:298:PHE:H	2.19	0.50
1:N:306:TRP:O	1:N:306:TRP:CE3	2.64	0.50
1:N:485:VAL:O	1:N:485:VAL:HG12	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:O:22:PRO:HD2	1:P:179:ALA:O	2.11	0.50
1:P:82:PHE:CZ	1:T:238:VAL:HG11	2.44	0.50
1:P:94:PRO:HG2	1:P:210:VAL:CG2	2.41	0.50
1:P:284:VAL:O	1:P:284:VAL:HG12	2.11	0.50
1:R:154:ARG:NH1	1:R:154:ARG:CB	2.68	0.50
1:R:296:PRO:C	1:R:298:PHE:H	2.19	0.50
1:R:306:TRP:CE3	1:R:306:TRP:O	2.64	0.50
1:R:609:ARG:HD2	1:S:29:THR:HG22	1.91	0.50
1:T:92:TRP:C	1:T:94:PRO:HD2	2.37	0.50
2:V:64:ARG:HH21	4:X:1027:LEU:CD2	2.23	0.50
2:V:78:PRO:HG3	2:V:83:GLN:O	2.11	0.50
3:W:773:ARG:HH11	3:W:872:THR:CG2	2.24	0.50
3:W:1059:ALA:HB3	3:W:1096:PHE:CZ	2.46	0.50
3:W:1208:CYS:HB3	3:W:1216:GLY:HA3	1.90	0.50
4:X:301:LEU:HD11	4:X:968:PHE:CB	2.41	0.50
4:X:462:ILE:CD1	4:X:468:ALA:HB1	2.40	0.50
4:X:562:SER:HB3	4:X:592:LEU:CD1	2.41	0.50
4:X:581:SER:N	4:X:582:PRO:HD2	2.26	0.50
4:X:898:ALA:HB2	4:X:930:ARG:HG3	1.93	0.50
4:Y:38:SER:O	4:Y:39:PRO:C	2.54	0.50
4:Y:254:ASP:CG	4:Y:255:GLU:N	2.68	0.50
4:Y:538:ASN:ND2	4:Y:769:VAL:O	2.44	0.50
4:Y:567:LEU:HD23	4:Y:708:PHE:CG	2.45	0.50
4:Y:718:THR:CG2	4:Y:719:ALA:N	2.74	0.50
4:Y:799:ASP:OD1	4:Y:801:ARG:HB2	2.10	0.50
1:B:540:VAL:CG2	1:B:569:ALA:HB3	2.41	0.50
1:D:92:TRP:CZ2	1:D:160:GLN:HB2	2.46	0.50
1:D:122:THR:O	1:D:123:ALA:C	2.54	0.50
1:D:137:ILE:HD11	1:D:142:ILE:HA	1.93	0.50
1:D:203:TYR:O	1:D:206:GLU:N	2.44	0.50
1:F:92:TRP:CE2	1:F:156:VAL:CG2	2.94	0.50
1:F:114:THR:HG22	1:F:114:THR:O	2.10	0.50
1:F:287:PRO:HG2	1:F:471:LEU:CD1	2.39	0.50
1:F:358:LEU:CB	1:F:417:PHE:HE2	2.24	0.50
1:H:215:TYR:C	1:H:217:ALA:N	2.70	0.50
1:J:203:TYR:O	1:J:206:GLU:N	2.44	0.50
1:L:92:TRP:C	1:L:94:PRO:HD2	2.37	0.50
1:L:609:ARG:HD2	1:M:29:THR:HG22	1.91	0.50
1:M:28:SER:HB3	1:N:215:TYR:HA	1.93	0.50
1:P:114:THR:O	1:P:114:THR:HG22	2.11	0.50
1:P:285:PHE:CE2	1:P:484:ILE:HD12	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:92:TRP:C	1:R:94:PRO:HD2	2.37	0.50
1:R:92:TRP:CZ2	1:R:160:GLN:HB2	2.46	0.50
1:R:199:LEU:O	1:R:207:PHE:HE2	1.92	0.50
1:S:22:PRO:HD2	1:T:179:ALA:O	2.11	0.50
1:T:114:THR:O	1:T:114:THR:HG22	2.10	0.50
1:T:269:LYS:O	1:T:270:ASP:HB2	2.10	0.50
2:V:195:GLN:O	2:V:196:LEU:HD22	2.11	0.50
3:W:815:TYR:HA	3:W:818:PHE:HB3	1.91	0.50
3:W:946:LEU:HD22	3:W:946:LEU:N	2.26	0.50
3:W:1100:PHE:CE2	3:W:1102:PRO:HB3	2.46	0.50
3:W:1142:ARG:O	3:W:1143:GLN:HB3	2.10	0.50
3:W:1237:VAL:HG23	3:W:1289:LEU:HD23	1.93	0.50
4:X:209:ASN:O	4:X:210:ILE:C	2.53	0.50
4:X:242:ARG:HA	4:X:1145:SER:O	2.12	0.50
4:X:514:ILE:HD13	4:X:732:VAL:HG11	1.93	0.50
4:X:587:MET:O	4:X:588:ALA:C	2.54	0.50
4:X:895:SER:O	4:X:896:ALA:C	2.53	0.50
4:Y:355:LYS:HE2	4:Y:1161:ASN:OD1	2.12	0.50
4:Y:470:LEU:N	4:Y:471:PRO:CD	2.74	0.50
4:Y:868:ARG:CD	4:Y:932:ALA:O	2.60	0.50
1:A:22:PRO:HD2	1:B:179:ALA:O	2.11	0.50
1:C:9:ASN:HB2	1:D:209:ASN:CG	2.36	0.50
1:D:82:PHE:CZ	1:H:238:VAL:HG11	2.45	0.50
1:D:152:ARG:NH2	1:L:100:LYS:O	2.44	0.50
1:E:22:PRO:HD2	1:F:179:ALA:O	2.11	0.50
1:E:28:SER:HB3	1:F:215:TYR:HA	1.93	0.50
1:F:80:GLU:OE2	1:F:80:GLU:HA	2.12	0.50
1:F:296:PRO:C	1:F:298:PHE:N	2.68	0.50
1:L:203:TYR:O	1:L:206:GLU:N	2.44	0.50
1:L:249:VAL:HG12	1:L:617:VAL:HB	1.94	0.50
1:L:333:PRO:HG3	1:L:454:PHE:CA	2.41	0.50
1:L:431:ILE:CD1	1:L:437:ILE:HG23	2.39	0.50
1:L:606:THR:HG22	1:N:173:ASP:HB2	1.94	0.50
1:N:122:THR:O	1:N:123:ALA:C	2.54	0.50
1:O:26:MET:O	1:O:26:MET:CG	2.60	0.50
1:P:545:VAL:CG2	1:R:641:ILE:HD11	2.40	0.50
1:R:203:TYR:O	1:R:206:GLU:N	2.44	0.50
1:R:357:ILE:HD11	1:R:414:GLN:CD	2.36	0.50
1:R:369:SER:OG	1:R:443:PHE:CD2	2.64	0.50
1:R:540:VAL:CG2	1:R:569:ALA:HB3	2.41	0.50
1:S:28:SER:HB3	1:T:215:TYR:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:92:TRP:CE2	1:T:156:VAL:CG2	2.94	0.50
1:T:166:ALA:HA	1:T:194:LEU:HD21	1.93	0.50
1:T:306:TRP:O	1:T:306:TRP:CE3	2.64	0.50
2:V:192:PHE:HB2	4:Y:376:LEU:HD23	1.84	0.50
3:W:504:THR:CG2	3:W:1184:VAL:HG21	2.41	0.50
3:W:619:LYS:HE3	3:W:654:GLU:CD	2.37	0.50
4:Y:531:CYS:SG	4:Y:818:ILE:HD11	2.51	0.50
4:Y:552:ASP:OD2	4:Y:555:GLN:HB2	2.12	0.50
4:Y:996:MET:HE3	4:Y:1117:PHE:CD1	2.46	0.50
4:Y:1019:THR:O	4:Y:1032:ILE:HB	2.11	0.50
1:A:9:ASN:HB2	1:B:209:ASN:CG	2.35	0.50
1:B:92:TRP:C	1:B:94:PRO:HD2	2.37	0.50
1:B:203:TYR:O	1:B:206:GLU:N	2.44	0.50
1:B:344:MET:HE2	1:B:502:LEU:CD1	2.37	0.50
1:B:411:VAL:O	1:B:412:ARG:CB	2.56	0.50
1:B:443:PHE:HE1	1:B:459:LEU:HD21	1.75	0.50
1:C:22:PRO:HD2	1:D:179:ALA:O	2.11	0.50
1:D:94:PRO:HG2	1:D:210:VAL:CG2	2.41	0.50
1:D:357:ILE:HG12	1:D:416:ARG:NH1	2.26	0.50
1:F:536:THR:HG21	1:F:570:LYS:HD2	1.94	0.50
1:H:273:LEU:HD23	1:H:273:LEU:O	2.12	0.50
1:J:57:THR:CG2	1:J:58:ILE:H	2.25	0.50
1:J:92:TRP:CE2	1:J:156:VAL:CG2	2.94	0.50
1:L:416:ARG:HG3	1:N:298:PHE:CZ	2.46	0.50
1:N:80:GLU:OE2	1:N:80:GLU:HA	2.12	0.50
1:N:273:LEU:HD23	1:N:273:LEU:O	2.12	0.50
1:O:28:SER:HB3	1:P:215:TYR:HA	1.93	0.50
1:P:137:ILE:HD11	1:P:142:ILE:HA	1.93	0.50
1:P:249:VAL:HG12	1:P:617:VAL:HB	1.94	0.50
1:T:285:PHE:CE2	1:T:484:ILE:HD12	2.45	0.50
2:U:26:LEU:HD13	2:U:90:ILE:HG13	1.93	0.50
2:U:176:ALA:HB1	4:X:413:PRO:CD	2.41	0.50
2:U:348:THR:HG22	2:U:349:ALA:N	2.27	0.50
3:W:53:ASP:O	3:W:55:SER:N	2.44	0.50
3:W:135:LEU:HD23	3:W:138:LEU:HD12	1.92	0.50
3:W:327:ILE:O	3:W:327:ILE:HG22	2.11	0.50
3:W:579:TYR:CE1	3:W:581:ASP:HB2	2.46	0.50
4:X:293:LEU:HD22	4:X:1080:HIS:O	2.11	0.50
4:X:481:ARG:O	4:X:482:SER:C	2.54	0.50
4:X:557:ILE:O	4:X:557:ILE:HG12	2.12	0.50
4:X:902:MET:HG3	4:X:929:PRO:HB3	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:111:ILE:O	4:Y:111:ILE:HG22	2.10	0.50
4:Y:157:ILE:CD1	4:Y:1204:LEU:HB2	2.42	0.50
4:Y:543:THR:O	4:Y:543:THR:HG23	2.11	0.50
4:Y:1211:ARG:HG2	4:Y:1211:ARG:NH1	2.20	0.50
1:B:122:THR:O	1:B:123:ALA:C	2.54	0.50
1:B:296:PRO:C	1:B:298:PHE:N	2.68	0.50
1:B:475:THR:O	1:B:505:ASP:HB2	2.11	0.50
1:D:86:LEU:HD12	1:D:108:LEU:HB2	1.92	0.50
1:F:94:PRO:HG2	1:F:210:VAL:CG2	2.41	0.50
1:H:183:TRP:NE1	1:H:187:LEU:HD12	2.26	0.50
1:H:284:VAL:O	1:H:284:VAL:HG12	2.10	0.50
1:I:22:PRO:HD2	1:J:179:ALA:O	2.11	0.50
1:J:79:ARG:NH1	1:J:79:ARG:HB2	2.27	0.50
1:J:122:THR:O	1:J:123:ALA:C	2.54	0.50
1:L:269:LYS:O	1:L:270:ASP:HB2	2.09	0.50
1:L:431:ILE:HG12	1:L:437:ILE:HD13	1.94	0.50
1:N:92:TRP:CE2	1:N:156:VAL:CG2	2.94	0.50
1:N:148:THR:OG1	1:R:100:LYS:HD2	2.11	0.50
1:N:215:TYR:C	1:N:217:ALA:N	2.70	0.50
1:N:357:ILE:HD11	1:N:414:GLN:CD	2.36	0.50
1:N:582:LEU:C	1:N:584:LEU:H	2.18	0.50
1:R:249:VAL:HG12	1:R:617:VAL:HB	1.94	0.50
1:R:294:TYR:HH	1:R:502:LEU:HD23	1.75	0.50
1:R:485:VAL:O	1:R:485:VAL:HG12	2.10	0.50
1:R:536:THR:HG21	1:R:570:LYS:HD2	1.94	0.50
1:T:215:TYR:C	1:T:217:ALA:N	2.70	0.50
1:T:296:PRO:C	1:T:298:PHE:H	2.19	0.50
2:U:171:THR:O	2:U:175:MET:CG	2.54	0.50
3:W:35:GLN:NE2	3:W:96:VAL:HG11	2.26	0.50
3:W:46:ALA:HA	3:W:59:ILE:HG12	1.93	0.50
3:W:47:LEU:CD1	3:W:327:ILE:HG21	2.42	0.50
3:W:316:GLN:OE1	3:W:316:GLN:HA	2.12	0.50
3:W:360:TRP:HB3	3:W:363:SER:HB2	1.92	0.50
3:W:472:ARG:HG2	3:W:692:VAL:HG12	1.93	0.50
3:W:475:LEU:C	3:W:475:LEU:HD23	2.36	0.50
3:W:816:ASN:HA	3:W:845:LEU:CD2	2.41	0.50
3:W:1107:ILE:HA	3:W:1126:THR:HG22	1.92	0.50
4:X:476:LEU:HD12	4:X:533:ALA:HA	1.94	0.50
4:X:1020:ILE:CD1	4:X:1062:TYR:HB2	2.41	0.50
4:X:1169:TRP:N	4:X:1169:TRP:CD1	2.79	0.50
4:Y:278:LEU:CD1	4:Y:891:PHE:HZ	2.25	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:579:PRO:HG3	4:Y:807:PHE:HE2	1.74	0.50
4:Y:938:TYR:CE1	4:Y:946:VAL:HG21	2.46	0.50
1:B:92:TRP:CZ2	1:B:160:GLN:HB2	2.46	0.50
1:B:183:TRP:CZ3	1:B:186:LEU:HD23	2.45	0.50
1:D:53:THR:CG2	1:D:54:SER:N	2.57	0.50
1:D:79:ARG:NH1	1:D:79:ARG:HB2	2.27	0.50
1:D:306:TRP:O	1:D:306:TRP:CE3	2.64	0.50
1:D:344:MET:HE2	1:D:502:LEU:CD1	2.37	0.50
1:D:582:LEU:C	1:D:584:LEU:H	2.19	0.50
1:F:284:VAL:O	1:F:284:VAL:HG12	2.11	0.50
1:G:22:PRO:HD2	1:H:179:ALA:O	2.11	0.50
1:J:92:TRP:C	1:J:94:PRO:HD2	2.37	0.50
1:J:360:TYR:CD2	1:J:361:ASP:N	2.77	0.50
1:J:540:VAL:CG2	1:J:569:ALA:HB3	2.41	0.50
1:K:9:ASN:HB2	1:L:209:ASN:CG	2.35	0.50
1:L:94:PRO:HG2	1:L:210:VAL:CG2	2.41	0.50
1:L:357:ILE:HD11	1:L:414:GLN:CD	2.36	0.50
1:L:536:THR:HG21	1:L:570:LYS:HD2	1.94	0.50
1:L:540:VAL:CG2	1:L:569:ALA:HB3	2.41	0.50
1:N:92:TRP:C	1:N:94:PRO:HD2	2.37	0.50
1:N:203:TYR:O	1:N:206:GLU:N	2.44	0.50
1:N:284:VAL:O	1:N:284:VAL:HG12	2.10	0.50
1:N:369:SER:OG	1:N:443:PHE:CD2	2.64	0.50
1:O:32:PRO:HD2	1:Q:38:PRO:HB2	1.93	0.50
1:P:92:TRP:CE2	1:P:156:VAL:CG2	2.94	0.50
1:P:166:ALA:HA	1:P:194:LEU:HD21	1.93	0.50
1:P:173:ASP:HB2	1:T:606:THR:HG22	1.94	0.50
1:P:431:ILE:HG12	1:P:437:ILE:HD13	1.94	0.50
1:P:609:ARG:HD2	1:Q:29:THR:HG22	1.91	0.50
1:R:114:THR:O	1:R:114:THR:HG22	2.10	0.50
1:R:144:ASN:C	1:R:146:GLN:N	2.65	0.50
1:R:360:TYR:CD2	1:R:361:ASP:N	2.77	0.50
1:S:26:MET:O	1:S:26:MET:CG	2.60	0.50
1:T:118:TYR:HB3	1:T:126:ALA:O	2.12	0.50
1:T:183:TRP:NE1	1:T:187:LEU:HD12	2.26	0.50
1:T:485:VAL:HG12	1:T:485:VAL:O	2.10	0.50
3:W:383:PHE:N	3:W:383:PHE:CD1	2.79	0.50
3:W:989:HIS:CE1	3:W:1027:HIS:ND1	2.79	0.50
4:X:370:ARG:HA	4:X:387:CYS:HB3	1.94	0.50
4:X:572:ALA:HA	4:X:818:ILE:HG21	1.94	0.50
4:X:841:PHE:HA	4:X:844:LEU:CD1	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1149:THR:HG22	4:X:1162:ALA:H	1.72	0.50
4:Y:535:TRP:HD1	4:Y:577:SER:HB3	1.75	0.50
4:Y:595:GLN:O	4:Y:598:PRO:HD3	2.10	0.50
4:Y:690:ALA:CB	4:Y:691:PRO:HD3	2.24	0.50
4:Y:746:TYR:CD1	4:Y:750:MET:HB2	2.46	0.50
1:B:94:PRO:HG2	1:B:210:VAL:CG2	2.41	0.50
1:B:215:TYR:C	1:B:217:ALA:N	2.70	0.50
1:B:249:VAL:HG12	1:B:617:VAL:HB	1.94	0.50
1:D:64:VAL:O	1:D:64:VAL:HG22	2.11	0.50
1:D:475:THR:O	1:D:505:ASP:HB2	2.11	0.50
1:F:273:LEU:HD23	1:F:273:LEU:O	2.11	0.50
1:F:344:MET:O	1:F:345:ILE:C	2.55	0.50
1:F:431:ILE:HG12	1:F:437:ILE:HD13	1.94	0.50
1:H:137:ILE:HD11	1:H:142:ILE:HA	1.93	0.50
1:H:203:TYR:O	1:H:206:GLU:N	2.44	0.50
1:H:564:LEU:HA	1:H:567:ARG:NH2	2.27	0.50
1:J:118:TYR:HB3	1:J:126:ALA:O	2.12	0.50
1:L:183:TRP:CZ3	1:L:186:LEU:HD23	2.45	0.50
1:L:468:PRO:O	1:N:578:SER:OG	2.21	0.50
1:N:183:TRP:NE1	1:N:187:LEU:HD12	2.26	0.50
1:N:360:TYR:CD2	1:N:361:ASP:N	2.77	0.50
1:N:431:ILE:CD1	1:N:437:ILE:HG23	2.39	0.50
1:O:28:SER:HB2	1:P:214:ARG:O	2.10	0.50
1:P:92:TRP:C	1:P:94:PRO:HD2	2.37	0.50
1:P:203:TYR:O	1:P:206:GLU:N	2.44	0.50
1:P:273:LEU:HD23	1:P:273:LEU:O	2.12	0.50
1:P:357:ILE:HG12	1:P:416:ARG:NH1	2.26	0.50
1:R:606:THR:HG22	1:T:173:ASP:HB2	1.94	0.50
1:T:358:LEU:CB	1:T:417:PHE:HE2	2.24	0.50
3:W:356:GLN:OE1	3:W:374:ALA:HB2	2.12	0.50
3:W:400:LEU:HD13	3:W:785:LEU:HD21	1.93	0.50
3:W:917:LEU:HD23	3:W:917:LEU:C	2.37	0.50
3:W:1142:ARG:O	3:W:1143:GLN:CB	2.59	0.50
4:X:390:LEU:HA	4:X:1191:TYR:HD1	1.76	0.50
4:X:456:VAL:HG21	4:X:950:VAL:HG11	1.94	0.50
4:X:685:PRO:HG2	4:X:833:PRO:HG2	1.94	0.50
4:X:906:ASN:OD1	4:X:919:LEU:HD23	2.10	0.50
4:X:1004:PHE:CD2	4:X:1044:ASP:HB3	2.47	0.50
4:X:1130:ALA:HB2	4:Y:104:GLN:CA	2.41	0.50
4:X:1179:VAL:HG23	4:X:1193:SER:HB3	1.94	0.50
4:Y:54:VAL:CB	4:Y:57:GLN:HE21	2.23	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:1182:ASN:O	4:Y:1183:ASP:HB2	2.11	0.50
1:B:79:ARG:NH1	1:B:79:ARG:HB2	2.27	0.50
1:B:449:THR:CG2	1:B:450:SER:N	2.66	0.50
1:D:92:TRP:C	1:D:94:PRO:HD2	2.37	0.50
1:D:183:TRP:NE1	1:D:187:LEU:HD12	2.26	0.50
1:D:249:VAL:HG12	1:D:617:VAL:HB	1.93	0.50
1:D:357:ILE:HD11	1:D:414:GLN:CD	2.36	0.50
1:D:385:VAL:HG23	1:D:390:ASN:HB3	1.94	0.50
1:F:215:TYR:C	1:F:217:ALA:N	2.70	0.50
1:F:357:ILE:HD11	1:F:414:GLN:CD	2.36	0.50
1:H:122:THR:O	1:H:123:ALA:C	2.54	0.50
1:H:536:THR:HG21	1:H:570:LYS:HD2	1.94	0.50
1:J:144:ASN:C	1:J:146:GLN:N	2.65	0.50
1:J:249:VAL:HG12	1:J:617:VAL:HB	1.93	0.50
1:J:273:LEU:HD23	1:J:273:LEU:O	2.12	0.50
1:J:284:VAL:O	1:J:284:VAL:HG12	2.11	0.50
1:J:344:MET:O	1:J:345:ILE:C	2.55	0.50
1:J:361:ASP:CG	1:J:362:THR:N	2.70	0.50
1:L:137:ILE:HD11	1:L:142:ILE:HA	1.93	0.50
1:N:79:ARG:HB2	1:N:79:ARG:NH1	2.27	0.50
1:N:181:CYS:O	1:N:182:ASN:C	2.55	0.50
1:N:287:PRO:HG2	1:N:471:LEU:CD1	2.39	0.50
1:N:536:THR:HG21	1:N:570:LYS:HD2	1.94	0.50
1:P:361:ASP:CG	1:P:362:THR:N	2.70	0.50
1:Q:26:MET:O	1:Q:26:MET:CG	2.60	0.50
1:R:48:TRP:N	1:R:48:TRP:HD1	2.09	0.50
1:R:494:THR:H	1:R:497:GLU:CB	2.19	0.50
3:W:75:ILE:O	3:W:78:PRO:HG3	2.11	0.50
3:W:88:ILE:C	3:W:90:ASP:N	2.69	0.50
3:W:686:ALA:O	3:W:690:ARG:HB3	2.12	0.50
3:W:736:VAL:HG13	3:W:744:ILE:CD1	2.42	0.50
4:X:274:TYR:CE2	4:X:300:MET:HE3	2.47	0.50
4:X:441:LEU:CD2	4:X:443:PRO:HD3	2.41	0.50
4:X:459:LEU:C	4:X:462:ILE:HG22	2.37	0.50
4:X:640:ARG:O	4:X:640:ARG:HG2	2.11	0.50
4:X:747:ILE:HG23	4:X:747:ILE:O	2.12	0.50
4:X:875:GLN:HG3	4:X:876:ASP:N	2.21	0.50
4:X:899:ALA:N	4:X:929:PRO:HG2	2.27	0.50
4:X:972:MET:HE1	4:X:1080:HIS:HB3	1.93	0.50
4:X:974:LEU:HD11	4:X:1168:ARG:NH2	2.27	0.50
4:Y:292:ALA:O	4:Y:296:ASN:HB2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:355:LYS:HB2	4:Y:1151:ALA:HA	1.94	0.50
4:Y:1103:TRP:O	4:Y:1104:LEU:C	2.54	0.50
1:B:296:PRO:C	1:B:298:PHE:H	2.19	0.50
1:D:273:LEU:HD23	1:D:273:LEU:O	2.12	0.50
1:D:296:PRO:C	1:D:298:PHE:N	2.67	0.50
1:D:298:PHE:CZ	1:H:355:GLY:CA	2.80	0.50
1:D:344:MET:O	1:D:345:ILE:C	2.55	0.50
1:D:369:SER:OG	1:D:443:PHE:CD2	2.64	0.50
1:F:361:ASP:CG	1:F:362:THR:N	2.70	0.50
1:H:79:ARG:NH1	1:H:79:ARG:HB2	2.27	0.50
1:H:346:ASP:HB3	1:H:428:ARG:N	2.15	0.50
1:H:431:ILE:HG12	1:H:437:ILE:HD13	1.94	0.50
1:J:385:VAL:HG23	1:J:390:ASN:HB3	1.94	0.50
1:J:606:THR:HG22	1:L:173:ASP:HB2	1.94	0.50
1:P:144:ASN:C	1:P:146:GLN:N	2.65	0.50
1:P:183:TRP:NE1	1:P:187:LEU:HD12	2.26	0.50
1:P:536:THR:HG21	1:P:570:LYS:HD2	1.94	0.50
1:P:564:LEU:HA	1:P:567:ARG:NH2	2.27	0.50
1:R:80:GLU:HA	1:R:80:GLU:OE2	2.12	0.50
1:R:118:TYR:HB3	1:R:126:ALA:O	2.12	0.50
1:R:137:ILE:HD11	1:R:142:ILE:HA	1.94	0.50
1:R:333:PRO:HG3	1:R:454:PHE:CA	2.41	0.50
1:R:564:LEU:HA	1:R:567:ARG:NH2	2.27	0.50
1:T:122:THR:O	1:T:123:ALA:C	2.54	0.50
3:W:821:GLU:HG3	3:W:824:ARG:NH2	2.27	0.50
3:W:1166:CYS:HB2	3:W:1174:VAL:O	2.12	0.50
4:X:371:LEU:HD13	4:X:387:CYS:HA	1.94	0.50
4:X:509:SER:CB	4:X:512:SER:HB3	2.40	0.50
4:X:769:VAL:CG1	4:X:770:PRO:HD2	2.42	0.50
4:X:1004:PHE:HB3	4:X:1073:ARG:NH2	2.27	0.50
4:Y:123:ASN:CB	4:Y:161:LEU:HD13	2.42	0.50
4:Y:336:ARG:HG3	4:Y:336:ARG:O	2.12	0.50
4:Y:535:TRP:CD2	4:Y:678:PRO:HG2	2.46	0.50
1:B:361:ASP:CG	1:B:362:THR:N	2.70	0.49
1:D:167:MET:HA	1:D:167:MET:CE	2.31	0.49
5:G:649:MYR:H142	5:G:649:MYR:C10	2.10	0.49
1:H:47:LEU:HB2	1:H:136:PHE:CE1	2.47	0.49
1:H:274:ILE:HD12	1:H:514:LEU:HD23	1.94	0.49
1:H:475:THR:O	1:H:505:ASP:HB2	2.11	0.49
1:J:215:TYR:C	1:J:217:ALA:N	2.70	0.49
1:J:296:PRO:C	1:J:298:PHE:H	2.19	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:333:PRO:HG3	1:J:454:PHE:CA	2.41	0.49
1:N:47:LEU:HB2	1:N:136:PHE:CE1	2.47	0.49
1:P:181:CYS:O	1:P:182:ASN:C	2.55	0.49
1:P:215:TYR:C	1:P:217:ALA:N	2.70	0.49
1:R:107:VAL:HG12	1:R:109:SER:H	1.77	0.49
1:R:288:SER:HB3	1:T:522:GLY:HA3	1.94	0.49
1:R:443:PHE:HE1	1:R:459:LEU:HD21	1.74	0.49
1:T:181:CYS:O	1:T:182:ASN:C	2.55	0.49
1:T:203:TYR:O	1:T:206:GLU:N	2.44	0.49
1:T:361:ASP:CG	1:T:362:THR:N	2.70	0.49
1:T:536:THR:HG21	1:T:570:LYS:HD2	1.94	0.49
2:V:2:ALA:HB2	4:Y:373:ARG:NH1	2.22	0.49
2:V:161:VAL:HG21	2:V:410:MET:HG3	1.93	0.49
2:V:245:GLN:HG3	4:Y:415:GLN:NE2	2.26	0.49
3:W:445:ILE:HD12	3:W:674:LEU:HB2	1.92	0.49
3:W:646:LYS:HD3	3:W:655:VAL:HG12	1.94	0.49
3:W:649:ILE:O	3:W:1010:LEU:CD1	2.60	0.49
3:W:961:GLY:O	3:W:963:ARG:N	2.45	0.49
4:X:975:PHE:O	4:X:976:ASN:HB2	2.12	0.49
4:X:993:TRP:HE1	4:X:995:PRO:HG3	1.75	0.49
4:X:1056:VAL:O	4:X:1057:ALA:C	2.55	0.49
4:X:1067:VAL:HG22	4:X:1072:THR:HG23	1.94	0.49
4:Y:244:VAL:HG22	4:Y:265:PRO:HA	1.93	0.49
4:Y:681:ASN:O	4:Y:682:GLN:HG3	2.12	0.49
4:Y:1019:THR:H	4:Y:1032:ILE:CG2	2.25	0.49
1:B:107:VAL:HG12	1:B:109:SER:H	1.77	0.49
1:B:154:ARG:NH1	1:B:154:ARG:CB	2.68	0.49
1:B:273:LEU:HD23	1:B:273:LEU:O	2.12	0.49
1:C:28:SER:HB3	1:D:215:TYR:HA	1.93	0.49
1:D:284:VAL:HG12	1:D:284:VAL:O	2.11	0.49
1:D:431:ILE:CD1	1:D:437:ILE:HG23	2.39	0.49
1:D:564:LEU:HA	1:D:567:ARG:NH2	2.27	0.49
1:F:369:SER:OG	1:F:443:PHE:CD2	2.64	0.49
1:H:344:MET:O	1:H:345:ILE:C	2.55	0.49
1:H:357:ILE:HD11	1:H:414:GLN:CD	2.36	0.49
1:J:181:CYS:O	1:J:182:ASN:C	2.55	0.49
1:J:431:ILE:HG12	1:J:437:ILE:HD13	1.94	0.49
1:L:118:TYR:HB3	1:L:126:ALA:O	2.12	0.49
1:N:114:THR:HG22	1:N:114:THR:O	2.10	0.49
1:N:358:LEU:CB	1:N:417:PHE:HE2	2.25	0.49
1:P:469:VAL:HG21	1:R:575:MET:HE3	0.69	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:475:THR:O	1:R:505:ASP:HB2	2.11	0.49
1:R:582:LEU:C	1:R:584:LEU:H	2.18	0.49
2:U:37:TRP:O	2:U:39:SER:N	2.42	0.49
3:W:72:HIS:HA	3:W:75:ILE:HD12	1.93	0.49
3:W:681:LEU:HD23	3:W:681:LEU:C	2.37	0.49
4:X:574:PRO:HB3	4:X:651:PRO:HG2	1.93	0.49
4:X:653:PRO:HD3	4:X:773:ARG:HB2	1.92	0.49
4:X:795:ASP:CG	4:Y:737:ARG:NH1	2.64	0.49
4:X:928:ASP:OD2	4:X:930:ARG:HD3	2.11	0.49
4:Y:485:PRO:HB3	4:Y:836:HIS:HD2	1.73	0.49
4:Y:670:ILE:HD13	4:Y:768:GLN:HB3	1.93	0.49
4:Y:776:GLN:HG2	4:Y:777:ASN:N	2.28	0.49
4:Y:891:PHE:C	4:Y:891:PHE:CD1	2.90	0.49
1:B:357:ILE:HD11	1:B:414:GLN:CD	2.36	0.49
1:B:385:VAL:HG23	1:B:390:ASN:HB3	1.94	0.49
1:D:80:GLU:HA	1:D:80:GLU:OE2	2.12	0.49
1:D:361:ASP:CG	1:D:362:THR:N	2.70	0.49
1:D:469:VAL:O	1:D:469:VAL:HG13	2.12	0.49
1:F:118:TYR:HB3	1:F:126:ALA:O	2.12	0.49
1:F:183:TRP:NE1	1:F:187:LEU:HD12	2.26	0.49
1:G:28:SER:HB3	1:H:215:TYR:HA	1.93	0.49
1:H:92:TRP:C	1:H:94:PRO:HD2	2.37	0.49
1:H:296:PRO:C	1:H:298:PHE:N	2.68	0.49
1:L:344:MET:O	1:L:345:ILE:C	2.55	0.49
1:L:346:ASP:HB3	1:L:428:ARG:N	2.15	0.49
1:L:361:ASP:CG	1:L:362:THR:N	2.70	0.49
1:P:47:LEU:HB2	1:P:136:PHE:CE1	2.47	0.49
1:P:296:PRO:C	1:P:298:PHE:H	2.19	0.49
1:P:369:SER:OG	1:P:443:PHE:CD2	2.64	0.49
1:P:469:VAL:O	1:P:469:VAL:HG13	2.12	0.49
1:R:174:ILE:HD11	1:R:178:SER:HA	1.95	0.49
1:T:174:ILE:HD11	1:T:178:SER:HA	1.95	0.49
1:T:249:VAL:HG12	1:T:617:VAL:HB	1.94	0.49
2:U:4:ARG:HH12	3:W:217:LEU:CB	2.25	0.49
2:U:302:GLU:O	2:U:303:ALA:C	2.55	0.49
2:U:328:TYR:CB	2:U:333:MET:HE2	2.42	0.49
3:W:62:TYR:CB	3:W:63:PRO:HD2	2.10	0.49
3:W:365:PHE:CD1	3:W:365:PHE:C	2.90	0.49
3:W:418:TYR:HB2	3:W:734:SER:HB2	1.95	0.49
3:W:1102:PRO:HG3	3:W:1127:ILE:CG1	2.42	0.49
4:X:650:TRP:HB3	4:X:773:ARG:HH11	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:692:THR:C	4:X:693:TYR:HD2	2.19	0.49
4:X:742:MET:HG3	4:X:742:MET:O	2.11	0.49
4:X:772:THR:HG21	4:X:778:ASP:HB2	1.94	0.49
4:X:795:ASP:OD1	4:Y:737:ARG:NH1	2.45	0.49
4:X:879:PHE:O	4:X:881:VAL:N	2.44	0.49
4:Y:861:ARG:HD3	4:Y:953:GLY:O	2.13	0.49
4:Y:988:ALA:CB	4:Y:1133:VAL:HG12	2.41	0.49
1:B:137:ILE:HD11	1:B:142:ILE:HA	1.93	0.49
1:B:300:LYS:HB3	1:B:302:GLU:OE1	2.13	0.49
1:B:469:VAL:O	1:B:469:VAL:HG13	2.12	0.49
1:D:238:VAL:HG11	1:F:82:PHE:CZ	2.45	0.49
1:D:431:ILE:HG12	1:D:437:ILE:HD13	1.94	0.49
1:F:47:LEU:HB2	1:F:136:PHE:CE1	2.47	0.49
1:F:79:ARG:HB2	1:F:79:ARG:NH1	2.27	0.49
1:F:92:TRP:C	1:F:94:PRO:HD2	2.36	0.49
1:F:274:ILE:HD12	1:F:514:LEU:HD23	1.94	0.49
1:I:26:MET:O	1:I:26:MET:CG	2.60	0.49
1:J:143:MET:SD	1:M:25:ASP:OD2	2.71	0.49
1:J:238:VAL:CG2	1:L:78:MET:HE1	2.07	0.49
1:J:269:LYS:HG2	1:J:516:LYS:HZ3	1.77	0.49
1:J:358:LEU:CB	1:J:417:PHE:HE2	2.25	0.49
1:J:469:VAL:O	1:J:469:VAL:HG13	2.12	0.49
1:K:25:ASP:OD2	1:N:143:MET:SD	2.71	0.49
1:L:107:VAL:HG12	1:L:109:SER:H	1.77	0.49
1:L:373:PHE:HA	1:L:441:GLY:HA2	1.95	0.49
1:N:274:ILE:HD12	1:N:514:LEU:HD23	1.94	0.49
1:O:25:ASP:OD2	1:R:143:MET:SD	2.71	0.49
1:P:65:SER:O	1:P:66:ASP:HB3	2.12	0.49
1:P:107:VAL:HG12	1:P:109:SER:H	1.77	0.49
1:P:360:TYR:CD2	1:P:361:ASP:N	2.77	0.49
1:R:65:SER:O	1:R:66:ASP:HB3	2.12	0.49
1:R:79:ARG:NH1	1:R:79:ARG:HB2	2.27	0.49
3:W:81:TYR:N	3:W:180:LEU:HD23	2.27	0.49
3:W:830:HIS:CE1	3:W:890:CYS:SG	3.06	0.49
4:X:255:GLU:OE1	4:X:255:GLU:HA	2.12	0.49
4:X:782:ASN:HB3	4:X:784:LEU:HD11	1.93	0.49
4:X:821:ALA:O	4:X:822:MET:C	2.55	0.49
4:X:931:ILE:O	4:X:931:ILE:HG22	2.12	0.49
4:Y:46:ALA:O	4:Y:50:GLN:HB2	2.12	0.49
4:Y:466:THR:HB	4:Y:809:ALA:HB1	1.94	0.49
4:Y:545:LEU:HD13	4:Y:569:LEU:HD12	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:344:MET:O	1:B:345:ILE:C	2.55	0.49
1:B:354:SER:C	1:B:356:THR:H	2.21	0.49
1:F:107:VAL:HG12	1:F:109:SER:H	1.77	0.49
1:F:166:ALA:HA	1:F:194:LEU:HD21	1.93	0.49
1:F:174:ILE:HD11	1:F:178:SER:HA	1.95	0.49
1:F:564:LEU:HA	1:F:567:ARG:NH2	2.27	0.49
1:H:65:SER:O	1:H:66:ASP:HB3	2.12	0.49
1:H:181:CYS:O	1:H:182:ASN:C	2.55	0.49
1:H:300:LYS:HB3	1:H:302:GLU:OE1	2.13	0.49
1:H:361:ASP:CG	1:H:362:THR:N	2.70	0.49
1:H:385:VAL:HG23	1:H:390:ASN:HB3	1.94	0.49
1:J:300:LYS:HB3	1:J:302:GLU:OE1	2.13	0.49
1:J:522:GLY:HA3	1:N:288:SER:HB3	1.94	0.49
1:L:369:SER:OG	1:L:443:PHE:CD2	2.64	0.49
1:L:427:GLU:CD	1:N:571:ARG:HH22	2.19	0.49
1:L:469:VAL:O	1:L:469:VAL:HG13	2.13	0.49
1:M:22:PRO:HD2	1:N:179:ALA:O	2.11	0.49
1:N:137:ILE:HD11	1:N:142:ILE:HA	1.93	0.49
1:N:344:MET:O	1:N:345:ILE:C	2.55	0.49
1:N:361:ASP:CG	1:N:362:THR:N	2.70	0.49
1:N:431:ILE:HG12	1:N:437:ILE:HD13	1.94	0.49
1:P:78:MET:HE2	1:T:238:VAL:HG21	1.83	0.49
1:P:143:MET:SD	1:S:25:ASP:OD2	2.71	0.49
1:P:274:ILE:HD12	1:P:514:LEU:HD23	1.94	0.49
1:P:344:MET:O	1:P:345:ILE:C	2.55	0.49
1:Q:25:ASP:OD2	1:T:143:MET:SD	2.71	0.49
1:R:47:LEU:HD23	1:R:71:TYR:HB2	1.95	0.49
1:R:181:CYS:O	1:R:182:ASN:C	2.55	0.49
1:T:137:ILE:HD11	1:T:142:ILE:HA	1.93	0.49
1:T:273:LEU:HD23	1:T:273:LEU:O	2.12	0.49
1:T:330:GLN:HE21	1:T:332:GLY:CA	2.26	0.49
2:U:44:LEU:O	4:X:404:MET:SD	2.71	0.49
2:U:46:ILE:HG13	2:U:181:PRO:HG2	1.93	0.49
2:U:52:PRO:HG2	2:U:64:ARG:HH22	1.77	0.49
2:U:220:THR:O	2:U:222:ARG:N	2.44	0.49
2:U:248:LEU:HD12	2:U:249:LYS:N	2.28	0.49
3:W:496:PHE:HE1	3:W:658:VAL:HG21	1.77	0.49
3:W:1028:ILE:HG22	3:W:1029:ASP:N	2.28	0.49
3:W:1060:VAL:HG23	3:W:1113:THR:HG23	1.95	0.49
4:X:297:VAL:HG11	4:X:968:PHE:CZ	2.48	0.49
4:X:393:ALA:HB1	4:X:1184:LEU:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:463:SER:O	4:X:465:ASN:N	2.45	0.49
4:X:560:LEU:N	4:X:561:PRO:CD	2.75	0.49
4:X:788:VAL:HG23	4:X:931:ILE:HB	1.93	0.49
4:Y:206:LEU:HB3	4:Y:236:PRO:HG3	1.95	0.49
4:Y:271:VAL:HG13	4:Y:272:HIS:N	2.28	0.49
4:Y:658:TYR:CD1	4:Y:658:TYR:C	2.91	0.49
4:Y:864:PHE:CZ	4:Y:931:ILE:HD12	2.47	0.49
1:B:47:LEU:HD23	1:B:71:TYR:HB2	1.95	0.49
1:B:118:TYR:HB3	1:B:126:ALA:O	2.12	0.49
1:D:118:TYR:HB3	1:D:126:ALA:O	2.12	0.49
1:D:358:LEU:CB	1:D:417:PHE:HE2	2.25	0.49
1:F:181:CYS:O	1:F:182:ASN:C	2.55	0.49
1:H:107:VAL:HG12	1:H:109:SER:H	1.77	0.49
1:H:249:VAL:HG12	1:H:617:VAL:HB	1.94	0.49
1:H:330:GLN:HE21	1:H:332:GLY:CA	2.26	0.49
1:J:65:SER:O	1:J:66:ASP:HB3	2.13	0.49
1:J:167:MET:HA	1:J:167:MET:CE	2.31	0.49
1:J:564:LEU:HA	1:J:567:ARG:NH2	2.27	0.49
1:L:80:GLU:OE2	1:L:80:GLU:HA	2.12	0.49
1:L:330:GLN:HE21	1:L:332:GLY:CA	2.26	0.49
1:L:469:VAL:HG21	1:N:575:MET:HE3	0.69	0.49
1:L:494:THR:H	1:L:497:GLU:CB	2.19	0.49
1:L:564:LEU:HA	1:L:567:ARG:NH2	2.27	0.49
1:P:80:GLU:HA	1:P:80:GLU:OE2	2.12	0.49
1:P:164:ASP:C	1:P:166:ALA:N	2.70	0.49
1:P:192:ASP:O	1:P:193:ILE:C	2.56	0.49
1:P:330:GLN:HE21	1:P:332:GLY:CA	2.26	0.49
1:P:475:THR:O	1:P:505:ASP:HB2	2.11	0.49
1:R:344:MET:O	1:R:345:ILE:C	2.55	0.49
1:R:361:ASP:CG	1:R:362:THR:N	2.70	0.49
1:T:47:LEU:HD23	1:T:71:TYR:HB2	1.95	0.49
1:T:82:PHE:O	1:T:86:LEU:HG	2.13	0.49
1:T:192:ASP:O	1:T:193:ILE:C	2.56	0.49
1:T:344:MET:O	1:T:345:ILE:C	2.55	0.49
3:W:740:VAL:HG12	3:W:741:PRO:N	2.27	0.49
3:W:992:SER:O	3:W:997:TRP:CZ3	2.65	0.49
4:X:662:LEU:H	4:X:662:LEU:CD2	2.25	0.49
4:X:837:TYR:C	4:X:839:LYS:H	2.21	0.49
4:X:1125:TYR:C	4:X:1157:ALA:HB3	2.37	0.49
4:Y:603:VAL:HG13	4:Y:603:VAL:O	2.12	0.49
4:Y:975:PHE:O	4:Y:976:ASN:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:107:VAL:HG12	1:D:109:SER:H	1.77	0.49
1:D:330:GLN:HE21	1:D:332:GLY:CA	2.26	0.49
1:D:606:THR:HG22	1:F:173:ASP:HB2	1.94	0.49
1:F:65:SER:O	1:F:66:ASP:HB3	2.12	0.49
1:F:606:THR:HG22	1:H:173:ASP:HB2	1.94	0.49
1:H:118:TYR:HB3	1:H:126:ALA:O	2.12	0.49
1:H:297:ALA:CB	1:H:460:MET:HB2	2.33	0.49
1:L:47:LEU:HB2	1:L:136:PHE:CE1	2.47	0.49
1:L:65:SER:O	1:L:66:ASP:HB3	2.12	0.49
1:L:215:TYR:C	1:L:217:ALA:N	2.70	0.49
1:L:358:LEU:CB	1:L:417:PHE:HE2	2.25	0.49
1:N:137:ILE:CD1	1:N:142:ILE:HG13	2.42	0.49
1:R:297:ALA:CB	1:R:460:MET:HB2	2.33	0.49
2:U:131:ASN:O	2:U:133:SER:N	2.45	0.49
2:U:291:THR:HA	2:U:294:THR:HG22	1.95	0.49
2:V:312:VAL:HG12	2:V:313:ALA:N	2.27	0.49
3:W:75:ILE:HD11	3:W:199:PRO:CG	2.39	0.49
3:W:736:VAL:HG22	3:W:744:ILE:HD13	1.95	0.49
3:W:832:LEU:HD21	3:W:893:ALA:HB2	1.94	0.49
3:W:847:PRO:O	3:W:849:THR:N	2.45	0.49
3:W:1295:GLU:O	3:W:1297:VAL:HG23	2.13	0.49
4:X:191:PRO:CB	4:X:859:ILE:HG13	2.42	0.49
4:X:386:GLU:HG3	4:X:1195:TYR:CD1	2.48	0.49
4:X:441:LEU:HD12	4:X:1199:PHE:CE2	2.48	0.49
4:Y:441:LEU:HG	4:Y:443:PRO:HD3	1.95	0.49
4:Y:483:VAL:HG13	4:Y:840:ALA:CB	2.41	0.49
4:Y:862:GLU:CB	4:Y:957:ILE:HD12	2.39	0.49
1:B:174:ILE:HD11	1:B:178:SER:HA	1.95	0.49
1:B:181:CYS:O	1:B:182:ASN:C	2.55	0.49
1:B:431:ILE:HG12	1:B:437:ILE:HD13	1.94	0.49
1:B:494:THR:H	1:B:497:GLU:CB	2.19	0.49
1:B:536:THR:HG21	1:B:570:LYS:HD2	1.94	0.49
1:D:373:PHE:HD2	1:D:397:VAL:HG11	1.78	0.49
1:D:427:GLU:O	1:D:428:ARG:C	2.56	0.49
1:F:122:THR:O	1:F:123:ALA:C	2.54	0.49
1:F:385:VAL:HG23	1:F:390:ASN:HB3	1.94	0.49
1:J:47:LEU:HB2	1:J:136:PHE:CE1	2.47	0.49
1:L:181:CYS:O	1:L:182:ASN:C	2.55	0.49
1:N:107:VAL:HG12	1:N:109:SER:H	1.77	0.49
1:N:300:LYS:HB3	1:N:302:GLU:OE1	2.13	0.49
1:N:564:LEU:HA	1:N:567:ARG:NH2	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:571:ARG:HH22	1:T:427:GLU:CD	2.19	0.49
1:R:527:VAL:HA	1:R:533:ASP:OD2	2.13	0.49
1:T:47:LEU:HB2	1:T:136:PHE:CE1	2.47	0.49
1:T:79:ARG:NH1	1:T:79:ARG:HB2	2.27	0.49
2:U:9:LEU:HD11	2:U:117:ASN:ND2	2.28	0.49
2:U:275:GLN:HE22	2:U:387:GLN:HB3	1.77	0.49
2:U:291:THR:HG23	2:U:297:PRO:HD3	1.95	0.49
2:U:359:TYR:O	2:U:362:TYR:HB3	2.12	0.49
2:V:65:ASN:HA	2:V:68:VAL:HG12	1.95	0.49
3:W:313:LEU:CD2	3:W:347:GLN:HG3	2.43	0.49
3:W:508:PRO:HB2	3:W:511:ASP:HB2	1.95	0.49
3:W:720:PHE:HB3	3:W:782:THR:HB	1.95	0.49
3:W:816:ASN:HA	3:W:845:LEU:HD23	1.94	0.49
3:W:843:LEU:HD21	3:W:854:MET:CE	2.43	0.49
4:X:367:ARG:HG3	4:X:388:MET:HE2	1.94	0.49
4:X:450:ASP:OD2	4:X:861:ARG:NH1	2.46	0.49
4:X:536:ALA:HA	4:X:768:GLN:HE21	1.78	0.49
4:X:538:ASN:HD21	4:X:768:GLN:HG2	1.78	0.49
4:X:899:ALA:CA	4:X:929:PRO:HG2	2.43	0.49
4:X:979:ARG:CG	4:X:1140:GLU:HG3	2.42	0.49
4:Y:224:TRP:HB3	4:Y:229:TYR:HE1	1.78	0.49
4:Y:920:LEU:HG	4:Y:920:LEU:O	2.12	0.49
4:Y:1100:LEU:O	4:Y:1103:TRP:HB3	2.12	0.49
1:B:47:LEU:HB2	1:B:136:PHE:CE1	2.47	0.49
1:B:80:GLU:OE2	1:B:80:GLU:HA	2.12	0.49
1:B:82:PHE:O	1:B:86:LEU:HG	2.13	0.49
1:B:373:PHE:HA	1:B:441:GLY:HA2	1.95	0.49
1:B:564:LEU:HA	1:B:567:ARG:NH2	2.27	0.49
1:D:143:MET:SD	1:G:25:ASP:OD2	2.71	0.49
1:D:181:CYS:O	1:D:182:ASN:C	2.55	0.49
1:D:536:THR:HG21	1:D:570:LYS:HD2	1.94	0.49
1:F:82:PHE:O	1:F:86:LEU:HG	2.13	0.49
1:F:238:VAL:HG11	1:H:82:PHE:CZ	2.45	0.49
1:F:355:GLY:O	1:F:416:ARG:HD2	2.13	0.49
1:F:427:GLU:O	1:F:428:ARG:C	2.56	0.49
1:H:80:GLU:HA	1:H:80:GLU:OE2	2.12	0.49
1:H:120:GLY:HA3	1:H:126:ALA:HA	1.95	0.49
1:H:373:PHE:HD2	1:H:397:VAL:HG11	1.78	0.49
1:J:288:SER:HB3	1:L:522:GLY:HA3	1.95	0.49
1:L:79:ARG:NH1	1:L:79:ARG:HB2	2.27	0.49
1:L:300:LYS:HB3	1:L:302:GLU:OE1	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:82:PHE:O	1:N:86:LEU:HG	2.13	0.49
1:N:118:TYR:HB3	1:N:126:ALA:O	2.12	0.49
1:P:346:ASP:HB3	1:P:428:ARG:N	2.15	0.49
1:Q:28:SER:HB3	1:R:215:TYR:HA	1.93	0.49
1:R:469:VAL:HG21	1:T:575:MET:HE3	0.69	0.49
1:T:381:PRO:O	1:T:384:GLN:HB3	2.13	0.49
2:U:406:LEU:O	2:U:406:LEU:HD13	2.13	0.49
2:V:198:GLN:OE1	4:Y:373:ARG:HB2	2.12	0.49
3:W:271:ARG:O	3:W:274:ALA:HB3	2.12	0.49
3:W:438:VAL:CG2	3:W:439:PHE:N	2.76	0.49
4:X:200:LEU:N	4:X:200:LEU:HD23	2.27	0.49
4:X:298:LEU:HG	4:X:965:GLU:OE2	2.12	0.49
4:X:340:LEU:O	4:X:341:ALA:C	2.55	0.49
4:X:599:ILE:HG23	4:X:639:LEU:HD23	1.93	0.49
4:X:669:PHE:C	4:X:670:ILE:HD13	2.37	0.49
4:X:982:LEU:HD12	4:X:1115:VAL:CG1	2.43	0.49
4:X:1171:GLY:HA2	4:X:1177:TYR:CD2	2.48	0.49
4:Y:164:TRP:CD1	4:Y:165:ASP:N	2.81	0.49
4:Y:388:MET:O	4:Y:389:GLU:O	2.31	0.49
4:Y:465:ASN:OD1	4:Y:468:ALA:N	2.42	0.49
4:Y:832:ILE:HD12	4:Y:835:HIS:HD2	1.76	0.49
4:Y:1009:PRO:O	4:Y:1010:ASN:HB2	2.11	0.49
1:B:427:GLU:O	1:B:428:ARG:C	2.56	0.49
1:C:42:ASN:O	1:H:239:ALA:HB2	2.13	0.49
1:D:47:LEU:HB2	1:D:136:PHE:CE1	2.47	0.49
1:D:144:ASN:C	1:D:146:GLN:N	2.65	0.49
1:D:469:VAL:HG21	1:F:575:MET:HE3	0.69	0.49
1:F:288:SER:HB3	1:H:522:GLY:HA3	1.94	0.49
1:F:333:PRO:HG3	1:F:454:PHE:CA	2.41	0.49
1:F:469:VAL:O	1:F:469:VAL:HG13	2.13	0.49
1:H:162:HIS:CD2	1:H:199:LEU:HB2	2.48	0.49
1:I:28:SER:HB3	1:J:215:TYR:HA	1.93	0.49
1:J:47:LEU:HD23	1:J:71:TYR:HB2	1.95	0.49
1:J:80:GLU:HA	1:J:80:GLU:OE2	2.12	0.49
1:J:239:ALA:HB2	1:K:42:ASN:O	2.13	0.49
1:J:358:LEU:HB2	1:J:417:PHE:HD2	1.77	0.49
1:J:494:THR:H	1:J:497:GLU:CB	2.19	0.49
1:L:273:LEU:HD23	1:L:273:LEU:O	2.12	0.49
1:N:65:SER:O	1:N:66:ASP:HB3	2.12	0.49
1:N:385:VAL:HG23	1:N:390:ASN:HB3	1.94	0.49
1:P:354:SER:C	1:P:356:THR:H	2.21	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:82:PHE:O	1:R:86:LEU:HG	2.13	0.49
1:R:237:GLU:CD	1:T:46:LYS:NZ	2.68	0.49
1:R:385:VAL:HG23	1:R:390:ASN:HB3	1.94	0.49
1:T:120:GLY:HA3	1:T:126:ALA:HA	1.95	0.49
1:T:162:HIS:CD2	1:T:199:LEU:HB2	2.48	0.49
1:T:164:ASP:C	1:T:166:ALA:N	2.71	0.49
1:T:385:VAL:HG23	1:T:390:ASN:HB3	1.94	0.49
1:T:431:ILE:HG12	1:T:437:ILE:HD13	1.94	0.49
2:U:372:ALA:HB3	2:U:373:MET:HE2	1.95	0.49
3:W:99:LEU:HD23	3:W:100:THR:N	2.28	0.49
3:W:240:LEU:HD21	3:W:261:LEU:HD13	1.95	0.49
3:W:750:PRO:HB3	3:W:791:PHE:CE1	2.47	0.49
3:W:1215:LEU:C	3:W:1215:LEU:CD1	2.85	0.49
4:X:279:SER:O	4:X:280:ARG:C	2.56	0.49
4:X:621:TRP:HE3	4:X:626:LEU:CD1	2.26	0.49
4:X:658:TYR:CD1	4:X:658:TYR:C	2.91	0.49
4:X:837:TYR:O	4:X:839:LYS:N	2.46	0.49
4:X:1091:GLN:HA	4:X:1091:GLN:HE21	1.77	0.49
4:Y:453:LEU:HG	4:Y:453:LEU:O	2.12	0.49
4:Y:621:TRP:HE3	4:Y:626:LEU:HD21	1.77	0.49
4:Y:774:LEU:C	4:Y:776:GLN:H	2.21	0.49
4:Y:829:THR:HG23	4:Y:830:ASN:OD1	2.13	0.49
4:Y:906:ASN:ND2	4:Y:921:ASP:HB3	2.28	0.49
4:Y:1041:ILE:HG22	4:Y:1066:MET:HG2	1.95	0.49
1:B:420:LEU:HD12	1:B:422:LEU:HD23	1.95	0.48
1:B:521:VAL:HG21	1:B:577:VAL:HG22	1.95	0.48
1:D:549:LEU:C	1:D:549:LEU:CD1	2.86	0.48
1:F:527:VAL:HA	1:F:533:ASP:OD2	2.13	0.48
1:H:82:PHE:O	1:H:86:LEU:HG	2.13	0.48
1:H:354:SER:C	1:H:356:THR:H	2.21	0.48
1:J:173:ASP:HB2	1:N:606:THR:HG22	1.94	0.48
1:J:274:ILE:HD12	1:J:514:LEU:HD23	1.94	0.48
1:J:420:LEU:HD12	1:J:422:LEU:HD23	1.95	0.48
1:J:427:GLU:O	1:J:428:ARG:C	2.56	0.48
1:L:82:PHE:O	1:L:86:LEU:HG	2.13	0.48
1:L:297:ALA:CB	1:L:460:MET:HB2	2.33	0.48
1:L:373:PHE:HD2	1:L:397:VAL:HG11	1.78	0.48
1:N:120:GLY:HA3	1:N:126:ALA:HA	1.95	0.48
1:N:358:LEU:HB2	1:N:417:PHE:HD2	1.77	0.48
1:P:174:ILE:HD11	1:P:178:SER:HA	1.95	0.48
1:P:239:ALA:HB2	1:Q:42:ASN:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:315:LEU:N	1:P:315:LEU:HD23	2.28	0.48
1:P:385:VAL:HG23	1:P:390:ASN:HB3	1.94	0.48
1:R:47:LEU:HB2	1:R:136:PHE:CE1	2.47	0.48
1:R:203:TYR:HB3	1:R:206:GLU:CB	2.39	0.48
1:R:358:LEU:CB	1:R:417:PHE:HE2	2.24	0.48
1:T:65:SER:O	1:T:66:ASP:HB3	2.12	0.48
2:U:72:LEU:O	2:U:76:LEU:HG	2.12	0.48
2:U:193:ALA:HB1	2:U:293:VAL:HG13	1.94	0.48
2:V:64:ARG:HH21	4:X:1027:LEU:CD1	2.25	0.48
2:V:209:ARG:HB2	2:V:290:VAL:HG11	1.95	0.48
3:W:38:ASN:HA	3:W:89:HIS:CE1	2.45	0.48
3:W:58:VAL:HG12	3:W:59:ILE:N	2.27	0.48
3:W:405:ARG:NH1	3:W:779:MET:HG3	2.27	0.48
3:W:836:THR:HG23	3:W:837:GLY:O	2.13	0.48
3:W:893:ALA:HB2	3:W:921:ILE:HD12	1.95	0.48
3:W:1037:VAL:HG11	3:W:1042:THR:HG21	1.95	0.48
3:W:1139:PRO:HD3	3:W:1153:ALA:HB2	1.95	0.48
3:W:1281:ALA:HB3	3:W:1284:TYR:CD2	2.47	0.48
4:X:373:ARG:HG3	4:X:382:SER:OG	2.13	0.48
4:X:377:ILE:HD11	4:X:436:LEU:CG	2.43	0.48
4:X:569:LEU:HA	4:X:569:LEU:HD23	1.70	0.48
4:X:743:THR:HB	4:X:822:MET:O	2.13	0.48
4:X:1094:LEU:HD23	4:X:1094:LEU:C	2.37	0.48
4:Y:743:THR:N	4:Y:744:PRO:CD	2.76	0.48
1:B:65:SER:O	1:B:66:ASP:HB3	2.12	0.48
1:B:78:MET:HG2	1:B:78:MET:O	2.13	0.48
1:B:274:ILE:HD12	1:B:514:LEU:HD23	1.94	0.48
1:B:358:LEU:HB2	1:B:417:PHE:HD2	1.77	0.48
1:D:300:LYS:HB3	1:D:302:GLU:OE1	2.13	0.48
1:D:315:LEU:N	1:D:315:LEU:HD23	2.28	0.48
1:D:494:THR:H	1:D:497:GLU:CB	2.19	0.48
1:D:522:GLY:HA3	1:H:288:SER:HB3	1.94	0.48
1:E:25:ASP:OD2	1:H:143:MET:SD	2.71	0.48
1:F:249:VAL:HG12	1:F:617:VAL:HB	1.94	0.48
1:F:300:LYS:HB3	1:F:302:GLU:OE1	2.13	0.48
1:H:47:LEU:HD23	1:H:71:TYR:HB2	1.95	0.48
1:H:192:ASP:O	1:H:193:ILE:C	2.56	0.48
1:H:355:GLY:O	1:H:416:ARG:HD2	2.13	0.48
1:J:203:TYR:HB3	1:J:206:GLU:CB	2.39	0.48
1:L:192:ASP:O	1:L:193:ILE:C	2.56	0.48
1:N:494:THR:H	1:N:497:GLU:CB	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:47:LEU:HD23	1:P:71:TYR:HB2	1.95	0.48
1:P:82:PHE:O	1:P:86:LEU:HG	2.13	0.48
1:P:118:TYR:HB3	1:P:126:ALA:O	2.12	0.48
1:P:381:PRO:O	1:P:384:GLN:HB3	2.13	0.48
1:P:549:LEU:C	1:P:549:LEU:CD1	2.87	0.48
1:P:575:MET:HE3	1:T:469:VAL:HG21	0.69	0.48
1:R:315:LEU:HD23	1:R:315:LEU:N	2.28	0.48
1:R:420:LEU:HD12	1:R:422:LEU:HD23	1.95	0.48
1:R:431:ILE:HG12	1:R:437:ILE:HD13	1.94	0.48
1:T:373:PHE:HA	1:T:441:GLY:HA2	1.95	0.48
2:U:89:GLY:HA2	2:U:103:VAL:HG23	1.94	0.48
2:V:271:SER:C	2:V:273:HIS:H	2.20	0.48
3:W:30:LEU:O	3:W:30:LEU:HD22	2.13	0.48
3:W:175:CYS:C	3:W:177:TYR:N	2.68	0.48
3:W:480:ARG:O	3:W:482:PRO:HD3	2.13	0.48
3:W:603:LEU:HD22	3:W:635:TYR:CD1	2.48	0.48
3:W:829:ALA:HB3	3:W:891:ASP:OD2	2.13	0.48
3:W:994:THR:O	3:W:995:CYS:SG	2.69	0.48
4:X:718:THR:CB	4:X:726:ARG:NH1	2.75	0.48
4:X:982:LEU:HD23	4:X:982:LEU:O	2.13	0.48
4:X:1013:VAL:HG12	4:X:1014:VAL:H	1.76	0.48
4:Y:38:SER:O	4:Y:40:ASN:N	2.46	0.48
4:Y:353:GLN:OE1	4:Y:353:GLN:CA	2.59	0.48
4:Y:721:VAL:HG13	4:Y:726:ARG:HB2	1.93	0.48
4:Y:1087:TYR:HA	4:Y:1119:ILE:O	2.13	0.48
4:Y:1088:TYR:CZ	4:Y:1120:PRO:HB3	2.48	0.48
1:A:5:GLN:O	1:A:6:THR:CB	2.61	0.48
1:B:381:PRO:O	1:B:384:GLN:HB3	2.13	0.48
1:B:527:VAL:HA	1:B:533:ASP:OD2	2.13	0.48
1:D:239:ALA:HB2	1:E:42:ASN:O	2.13	0.48
1:F:162:HIS:CD2	1:F:199:LEU:HB2	2.48	0.48
1:F:315:LEU:N	1:F:315:LEU:HD23	2.28	0.48
1:J:355:GLY:O	1:J:416:ARG:HD2	2.13	0.48
1:J:381:PRO:O	1:J:384:GLN:HB3	2.13	0.48
1:L:162:HIS:CD2	1:L:199:LEU:HB2	2.48	0.48
1:L:381:PRO:O	1:L:384:GLN:HB3	2.13	0.48
1:L:521:VAL:HG21	1:L:577:VAL:HG22	1.95	0.48
1:N:373:PHE:HA	1:N:441:GLY:HA2	1.95	0.48
1:P:49:ARG:NH1	1:P:115:THR:HG22	2.18	0.48
1:P:79:ARG:NH1	1:P:79:ARG:HB2	2.27	0.48
1:P:120:GLY:HA3	1:P:126:ALA:HA	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:355:GLY:O	1:P:416:ARG:HD2	2.13	0.48
1:P:522:GLY:HA3	1:T:288:SER:HB3	1.94	0.48
1:R:300:LYS:HB3	1:R:302:GLU:OE1	2.13	0.48
1:T:471:LEU:N	1:T:471:LEU:CD2	2.76	0.48
2:U:79:PHE:HE2	2:U:138:ILE:CD1	2.25	0.48
2:U:241:LEU:O	2:U:242:ASN:CB	2.60	0.48
2:U:245:GLN:HE21	2:U:245:GLN:CA	2.25	0.48
2:V:379:ILE:HD13	2:V:388:PRO:HD3	1.94	0.48
3:W:398:LEU:HD23	3:W:398:LEU:N	2.22	0.48
3:W:624:THR:C	3:W:626:ALA:N	2.71	0.48
3:W:733:ALA:CB	3:W:779:MET:HE1	2.38	0.48
3:W:1014:ASN:HD21	3:W:1213:SER:HB2	1.77	0.48
3:W:1070:VAL:HG11	3:W:1082:ALA:HB2	1.95	0.48
4:X:656:PHE:CD1	4:X:752:PRO:HB3	2.48	0.48
4:X:687:LEU:O	4:X:832:ILE:HD13	2.14	0.48
4:X:718:THR:CA	4:X:726:ARG:NH1	2.75	0.48
4:X:792:GLN:CB	4:X:931:ILE:HD13	2.43	0.48
4:X:1129:THR:HG21	4:X:1132:ARG:NH1	2.28	0.48
4:Y:80:THR:O	4:Y:80:THR:HG22	2.13	0.48
4:Y:266:PRO:CB	4:Y:1085:LEU:HD11	2.41	0.48
4:Y:543:THR:O	4:Y:543:THR:CG2	2.60	0.48
4:Y:633:PRO:O	4:Y:637:PRO:HA	2.14	0.48
1:B:162:HIS:CD2	1:B:199:LEU:HB2	2.48	0.48
1:B:164:ASP:C	1:B:166:ALA:N	2.70	0.48
1:B:203:TYR:HB3	1:B:206:GLU:CB	2.39	0.48
1:D:78:MET:HG2	1:D:78:MET:O	2.13	0.48
1:D:355:GLY:O	1:D:416:ARG:HD2	2.13	0.48
1:D:381:PRO:O	1:D:384:GLN:HB3	2.13	0.48
1:F:48:TRP:CE2	1:F:63:ILE:HD13	2.49	0.48
1:F:382:ILE:O	1:F:383:GLN:HB2	2.14	0.48
1:H:527:VAL:HA	1:H:533:ASP:OD2	2.13	0.48
1:J:48:TRP:CE2	1:J:63:ILE:HD13	2.49	0.48
1:J:82:PHE:O	1:J:86:LEU:HG	2.13	0.48
1:J:107:VAL:HG12	1:J:109:SER:H	1.77	0.48
1:J:154:ARG:HB3	1:J:154:ARG:CZ	2.44	0.48
1:J:192:ASP:O	1:J:193:ILE:C	2.56	0.48
1:J:330:GLN:HE21	1:J:332:GLY:CA	2.26	0.48
1:J:344:MET:HE2	1:J:502:LEU:CD1	2.37	0.48
1:N:47:LEU:HD23	1:N:71:TYR:HB2	1.95	0.48
1:N:174:ILE:HD11	1:N:178:SER:HA	1.95	0.48
1:T:107:VAL:HG12	1:T:109:SER:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:154:ARG:HB3	1:T:154:ARG:CZ	2.44	0.48
1:T:355:GLY:O	1:T:416:ARG:HD2	2.13	0.48
2:U:136:TRP:HZ2	2:U:293:VAL:HG12	1.77	0.48
2:U:166:MET:O	2:U:168:ALA:N	2.46	0.48
2:U:195:GLN:O	2:U:196:LEU:HB2	2.14	0.48
2:U:342:ARG:HD3	2:U:349:ALA:HA	1.95	0.48
2:U:376:ALA:O	2:U:378:PRO:HD3	2.12	0.48
3:W:111:ARG:HD2	3:W:139:PHE:HB3	1.94	0.48
3:W:193:THR:O	3:W:194:TYR:HB2	2.13	0.48
3:W:1179:GLU:OE1	3:W:1179:GLU:HA	2.13	0.48
3:W:1233:ARG:NH1	3:W:1293:VAL:HG12	2.28	0.48
4:X:419:ILE:HD13	4:X:663:GLN:HB2	1.94	0.48
4:X:593:LEU:HD21	4:X:597:GLU:HB2	1.95	0.48
4:Y:938:TYR:CZ	4:Y:946:VAL:HG21	2.49	0.48
4:Y:1097:ALA:HB3	4:Y:1098:PRO:HD3	1.93	0.48
1:C:25:ASP:OD2	1:F:143:MET:SD	2.71	0.48
1:D:82:PHE:O	1:D:86:LEU:HG	2.13	0.48
1:D:164:ASP:C	1:D:166:ALA:N	2.71	0.48
1:D:527:VAL:HA	1:D:533:ASP:OD2	2.13	0.48
1:F:373:PHE:HA	1:F:441:GLY:HA2	1.95	0.48
1:G:5:GLN:O	1:G:6:THR:CB	2.61	0.48
1:H:96:PHE:CE1	1:H:159:TRP:CH2	3.02	0.48
1:I:25:ASP:OD2	1:L:143:MET:SD	2.71	0.48
1:J:527:VAL:HA	1:J:533:ASP:OD2	2.13	0.48
1:L:98:ALA:HB2	1:L:206:GLU:CD	2.39	0.48
1:L:288:SER:HB3	1:N:522:GLY:HA3	1.94	0.48
1:L:296:PRO:C	1:L:298:PHE:H	2.19	0.48
1:L:385:VAL:HG23	1:L:390:ASN:HB3	1.94	0.48
1:L:427:GLU:O	1:L:428:ARG:C	2.56	0.48
1:N:354:SER:C	1:N:356:THR:H	2.21	0.48
1:N:381:PRO:O	1:N:384:GLN:HB3	2.13	0.48
1:O:42:ASN:O	1:T:239:ALA:HB2	2.13	0.48
1:P:260:SER:HB3	1:Q:33:ALA:HB1	1.96	0.48
1:P:427:GLU:O	1:P:428:ARG:C	2.56	0.48
1:P:443:PHE:HE1	1:P:459:LEU:HD21	1.74	0.48
1:R:98:ALA:HB2	1:R:206:GLU:CD	2.39	0.48
1:R:469:VAL:O	1:R:469:VAL:HG13	2.13	0.48
1:T:360:TYR:CD2	1:T:361:ASP:N	2.77	0.48
1:T:427:GLU:O	1:T:428:ARG:C	2.56	0.48
2:U:10:THR:CG2	2:U:73:GLY:HA3	2.43	0.48
2:U:294:THR:HG23	2:U:294:THR:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:384:MET:N	2:U:385:PRO:HD3	2.28	0.48
3:W:1187:ALA:N	3:W:1188:PRO:CD	2.77	0.48
3:W:1258:MET:HG3	3:W:1264:PRO:HG2	1.94	0.48
4:X:248:ASN:O	4:X:249:TRP:C	2.55	0.48
4:X:603:VAL:HG13	4:X:620:VAL:HG12	1.95	0.48
4:X:973:ASN:ND2	4:X:1144:ASP:HB2	2.29	0.48
4:X:1124:VAL:O	4:X:1157:ALA:HB2	2.13	0.48
4:Y:54:VAL:CG2	4:Y:57:GLN:HE21	2.26	0.48
4:Y:649:ASN:ND2	4:Y:699:ASN:HD21	2.12	0.48
4:Y:656:PHE:HD2	4:Y:657:GLY:O	1.96	0.48
1:B:98:ALA:HB2	1:B:206:GLU:CD	2.39	0.48
1:B:154:ARG:HB3	1:B:154:ARG:CZ	2.44	0.48
1:D:52:GLY:O	1:D:53:THR:OG1	2.31	0.48
1:D:192:ASP:O	1:D:193:ILE:C	2.56	0.48
1:F:120:GLY:HA3	1:F:126:ALA:HA	1.95	0.48
1:F:420:LEU:HD12	1:F:422:LEU:HD23	1.95	0.48
1:H:96:PHE:CD1	1:H:101:THR:HG23	2.44	0.48
1:H:549:LEU:C	1:H:549:LEU:CD1	2.87	0.48
1:J:162:HIS:CD2	1:J:199:LEU:HB2	2.48	0.48
1:J:238:VAL:HG21	1:L:78:MET:HE2	1.83	0.48
1:J:315:LEU:HD23	1:J:315:LEU:N	2.28	0.48
1:L:48:TRP:N	1:L:48:TRP:HD1	2.09	0.48
1:L:48:TRP:CE2	1:L:63:ILE:HD13	2.49	0.48
1:L:315:LEU:N	1:L:315:LEU:HD23	2.28	0.48
1:L:344:MET:HE2	1:L:502:LEU:CD1	2.37	0.48
1:L:420:LEU:HD12	1:L:422:LEU:HD23	1.95	0.48
1:N:296:PRO:C	1:N:298:PHE:N	2.68	0.48
1:N:330:GLN:HE21	1:N:332:GLY:CA	2.26	0.48
1:N:527:VAL:HA	1:N:533:ASP:OD2	2.13	0.48
1:P:162:HIS:CD2	1:P:199:LEU:HB2	2.48	0.48
1:P:300:LYS:HB3	1:P:302:GLU:OE1	2.13	0.48
1:P:373:PHE:HA	1:P:441:GLY:HA2	1.95	0.48
1:R:78:MET:HG2	1:R:78:MET:O	2.13	0.48
1:R:120:GLY:HA3	1:R:126:ALA:HA	1.95	0.48
1:R:238:VAL:CG2	1:T:142:ILE:HD11	2.42	0.48
1:R:381:PRO:O	1:R:384:GLN:HB3	2.13	0.48
1:R:471:LEU:CD2	1:R:471:LEU:N	2.76	0.48
1:R:549:LEU:HB3	1:T:644:LEU:CD1	2.34	0.48
1:T:315:LEU:N	1:T:315:LEU:HD23	2.28	0.48
2:U:41:PHE:CZ	2:U:186:ALA:HB3	2.49	0.48
2:U:339:LEU:CG	2:U:343:GLN:HE21	2.26	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:337:ARG:HE	2:V:338:HIS:CD2	2.32	0.48
3:W:409:ILE:HB	3:W:414:ALA:HB2	1.95	0.48
3:W:519:LEU:HG	3:W:580:ALA:HA	1.94	0.48
3:W:582:LEU:CB	3:W:602:MET:HE1	2.44	0.48
3:W:610:THR:OG1	3:W:662:ARG:HG2	2.13	0.48
3:W:860:CYS:HB2	3:W:874:TYR:CE2	2.49	0.48
3:W:1040:VAL:CB	3:W:1041:PRO:CD	2.88	0.48
3:W:1157:CYS:HB3	3:W:1190:ARG:NH2	2.28	0.48
4:X:373:ARG:HA	4:X:385:VAL:HA	1.95	0.48
4:X:415:GLN:C	4:X:417:VAL:N	2.70	0.48
4:X:681:ASN:HD22	4:X:752:PRO:CG	2.27	0.48
4:X:921:ASP:O	4:X:923:LEU:N	2.44	0.48
4:Y:165:ASP:C	4:Y:166:ASP:CG	2.81	0.48
4:Y:559:HIS:HD2	4:Y:562:SER:CB	2.25	0.48
4:Y:587:MET:CE	4:Y:601:ILE:HD11	2.42	0.48
4:Y:1037:VAL:CG1	4:Y:1039:ARG:HH21	2.26	0.48
1:B:120:GLY:HA3	1:B:126:ALA:HA	1.95	0.48
1:B:315:LEU:HD23	1:B:315:LEU:N	2.28	0.48
1:B:382:ILE:O	1:B:383:GLN:HB2	2.14	0.48
5:C:649:MYR:H72	1:D:200:CYS:HG	1.79	0.48
1:D:47:LEU:HD23	1:D:71:TYR:HB2	1.95	0.48
1:D:58:ILE:O	1:D:59:ASP:HB3	2.13	0.48
1:D:120:GLY:HA3	1:D:126:ALA:HA	1.95	0.48
1:D:162:HIS:CD2	1:D:199:LEU:HB2	2.48	0.48
1:D:288:SER:HB3	1:F:522:GLY:HA3	1.95	0.48
1:D:354:SER:C	1:D:356:THR:H	2.21	0.48
1:D:373:PHE:HA	1:D:441:GLY:HA2	1.95	0.48
1:E:28:SER:HB2	1:F:215:TYR:HA	1.96	0.48
1:F:98:ALA:HB2	1:F:206:GLU:CD	2.39	0.48
1:F:381:PRO:O	1:F:384:GLN:HB3	2.13	0.48
1:F:471:LEU:N	1:F:471:LEU:CD2	2.76	0.48
1:H:164:ASP:C	1:H:166:ALA:N	2.71	0.48
1:H:174:ILE:HD11	1:H:178:SER:HA	1.95	0.48
1:H:204:PRO:O	1:H:208:TYR:HB2	2.14	0.48
1:H:360:TYR:CD2	1:H:361:ASP:N	2.77	0.48
1:H:471:LEU:N	1:H:471:LEU:CD2	2.76	0.48
1:I:5:GLN:O	1:I:6:THR:CB	2.61	0.48
1:J:120:GLY:HA3	1:J:126:ALA:HA	1.95	0.48
1:J:204:PRO:O	1:J:208:TYR:HB2	2.14	0.48
1:K:26:MET:O	1:K:26:MET:CG	2.60	0.48
1:L:96:PHE:CE1	1:L:159:TRP:CH2	3.02	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:354:SER:C	1:L:356:THR:H	2.21	0.48
1:L:355:GLY:O	1:L:416:ARG:HD2	2.13	0.48
1:N:249:VAL:HG12	1:N:617:VAL:HB	1.94	0.48
1:P:48:TRP:N	1:P:48:TRP:HD1	2.09	0.48
1:P:98:ALA:HB2	1:P:206:GLU:CD	2.39	0.48
1:P:288:SER:HB3	1:R:522:GLY:HA3	1.94	0.48
1:P:298:PHE:HE1	1:T:416:ARG:CB	2.16	0.48
1:R:330:GLN:HE21	1:R:332:GLY:CA	2.26	0.48
1:R:373:PHE:HA	1:R:441:GLY:HA2	1.95	0.48
1:T:98:ALA:HB2	1:T:206:GLU:CD	2.39	0.48
1:T:204:PRO:O	1:T:208:TYR:HB2	2.14	0.48
1:T:344:MET:HE2	1:T:502:LEU:CD1	2.37	0.48
1:T:420:LEU:HD12	1:T:422:LEU:HD23	1.96	0.48
1:T:527:VAL:HA	1:T:533:ASP:OD2	2.13	0.48
1:T:564:LEU:HA	1:T:567:ARG:NH2	2.27	0.48
3:W:19:ARG:NH1	3:W:366:VAL:O	2.47	0.48
3:W:63:PRO:C	3:W:65:LEU:H	2.20	0.48
3:W:740:VAL:O	3:W:742:SER:N	2.47	0.48
3:W:773:ARG:CD	3:W:843:LEU:HD22	2.43	0.48
3:W:893:ALA:CB	3:W:921:ILE:HD12	2.43	0.48
3:W:1080:SER:HB3	3:W:1085:ALA:HB3	1.94	0.48
3:W:1233:ARG:HH11	3:W:1293:VAL:HG12	1.78	0.48
4:X:410:HIS:CG	4:X:411:GLN:N	2.80	0.48
4:Y:321:VAL:O	4:Y:321:VAL:HG12	2.13	0.48
4:Y:549:ALA:HB1	4:Y:569:LEU:HD13	1.96	0.48
4:Y:996:MET:O	4:Y:998:PRO:HD3	2.14	0.48
1:A:26:MET:O	1:A:26:MET:CG	2.60	0.48
1:D:411:VAL:O	1:D:412:ARG:CB	2.56	0.48
1:F:204:PRO:O	1:F:208:TYR:HB2	2.14	0.48
1:H:382:ILE:O	1:H:383:GLN:HB2	2.14	0.48
1:J:59:ASP:O	1:J:59:ASP:OD2	2.32	0.48
1:L:527:VAL:HA	1:L:533:ASP:OD2	2.13	0.48
1:L:561:ASP:O	1:L:563:PRO:CD	2.62	0.48
1:M:28:SER:HB2	1:N:215:TYR:HA	1.96	0.48
1:N:192:ASP:O	1:N:193:ILE:C	2.56	0.48
1:P:373:PHE:HD2	1:P:397:VAL:HG11	1.78	0.48
1:P:521:VAL:HG21	1:P:577:VAL:HG22	1.95	0.48
1:P:527:VAL:HA	1:P:533:ASP:OD2	2.13	0.48
1:P:561:ASP:O	1:P:563:PRO:CD	2.62	0.48
1:P:644:LEU:CD1	1:T:549:LEU:HB3	2.33	0.48
1:R:48:TRP:CE2	1:R:63:ILE:HD13	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:192:ASP:O	1:R:193:ILE:C	2.56	0.48
1:R:493:GLN:O	1:R:586:VAL:HG23	2.14	0.48
1:T:48:TRP:CE2	1:T:63:ILE:HD13	2.49	0.48
1:T:96:PHE:CE1	1:T:159:TRP:CH2	3.02	0.48
1:T:443:PHE:HE1	1:T:459:LEU:HD21	1.75	0.48
2:U:58:TYR:HB2	2:U:64:ARG:NH1	2.27	0.48
2:V:77:ASN:OD1	2:V:83:GLN:HB2	2.14	0.48
3:W:300:PHE:CE1	3:W:309:ASN:ND2	2.82	0.48
3:W:821:GLU:CB	3:W:824:ARG:HH21	2.26	0.48
3:W:1081:VAL:O	3:W:1081:VAL:HG12	2.14	0.48
3:W:1244:THR:HA	3:W:1284:TYR:HE2	1.78	0.48
4:X:518:LEU:HG	4:X:820:VAL:HG23	1.96	0.48
4:X:1017:PHE:CD1	4:Y:1211:ARG:HA	2.49	0.48
4:Y:231:MET:SD	4:Y:348:ALA:HB3	2.53	0.48
4:Y:294:ARG:HB3	4:Y:890:GLN:CB	2.44	0.48
4:Y:439:THR:O	4:Y:440:ILE:HB	2.13	0.48
4:Y:676:VAL:HG12	4:Y:771:PHE:HD2	1.78	0.48
4:Y:707:PHE:O	4:Y:711:VAL:HG23	2.13	0.48
1:B:561:ASP:O	1:B:563:PRO:CD	2.62	0.48
1:D:96:PHE:CE1	1:D:159:TRP:CH2	3.02	0.48
1:D:561:ASP:O	1:D:563:PRO:CD	2.62	0.48
1:F:96:PHE:CE1	1:F:159:TRP:CH2	3.02	0.48
1:F:549:LEU:HB3	1:H:644:LEU:CD1	2.34	0.48
1:H:48:TRP:CE2	1:H:63:ILE:HD13	2.49	0.48
1:H:381:PRO:O	1:H:384:GLN:HB3	2.13	0.48
1:H:633:ALA:O	1:H:636:ALA:HB3	2.14	0.48
1:I:42:ASN:O	1:N:239:ALA:HB2	2.13	0.48
1:J:354:SER:C	1:J:356:THR:H	2.21	0.48
1:J:373:PHE:HA	1:J:441:GLY:HA2	1.95	0.48
1:J:521:VAL:HG21	1:J:577:VAL:HG22	1.95	0.48
1:J:536:THR:HG21	1:J:570:LYS:HD2	1.94	0.48
1:L:166:ALA:CB	1:L:194:LEU:HD11	2.44	0.48
1:M:5:GLN:O	1:M:6:THR:CB	2.61	0.48
1:N:427:GLU:O	1:N:428:ARG:C	2.56	0.48
1:N:549:LEU:C	1:N:549:LEU:CD1	2.87	0.48
1:P:48:TRP:CE2	1:P:63:ILE:HD13	2.49	0.48
1:S:28:SER:HB2	1:T:215:TYR:HA	1.96	0.48
2:U:80:ALA:HB1	2:U:118:VAL:HG21	1.95	0.48
2:U:121:ASP:O	2:U:123:ASN:N	2.47	0.48
2:V:94:ASP:HB2	2:V:95:PRO:CD	2.43	0.48
2:V:188:THR:HG23	4:Y:376:LEU:HD13	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:59:ILE:HB	3:W:178:ILE:CD1	2.43	0.48
3:W:1160:TYR:HE2	3:W:1218:ARG:HH12	1.62	0.48
4:X:411:GLN:HG3	4:X:445:PHE:CD2	2.48	0.48
4:X:789:ASP:HB3	4:X:933:ASP:CG	2.39	0.48
4:X:855:GLN:C	4:X:857:ALA:N	2.67	0.48
4:X:1167:LEU:HD13	4:X:1187:ARG:NH2	2.29	0.48
4:Y:374:ALA:O	4:Y:375:ASN:HB2	2.12	0.48
4:Y:590:ALA:O	4:Y:608:GLN:HG2	2.13	0.48
1:B:96:PHE:CD1	1:B:101:THR:HG23	2.44	0.48
1:B:192:ASP:O	1:B:193:ILE:C	2.56	0.48
1:B:471:LEU:CD2	1:B:471:LEU:N	2.76	0.48
1:E:26:MET:O	1:E:26:MET:CG	2.60	0.48
1:F:352:ASP:HB2	1:F:421:HIS:CD2	2.49	0.48
1:F:561:ASP:O	1:F:563:PRO:CD	2.62	0.48
1:F:633:ALA:O	1:F:636:ALA:HB3	2.14	0.48
1:G:28:SER:HB2	1:H:215:TYR:HA	1.96	0.48
1:H:98:ALA:HB2	1:H:206:GLU:CD	2.39	0.48
1:H:154:ARG:HB3	1:H:154:ARG:CZ	2.44	0.48
1:H:431:ILE:CD1	1:H:437:ILE:HG23	2.39	0.48
1:H:493:GLN:O	1:H:586:VAL:HG23	2.14	0.48
1:J:98:ALA:HB2	1:J:206:GLU:CD	2.39	0.48
1:J:396:VAL:HG11	1:J:399:ALA:HB2	1.96	0.48
1:L:78:MET:HG2	1:L:78:MET:O	2.13	0.48
1:L:396:VAL:HG11	1:L:399:ALA:HB2	1.96	0.48
1:N:96:PHE:CE1	1:N:159:TRP:CH2	3.02	0.48
1:N:315:LEU:N	1:N:315:LEU:HD23	2.28	0.48
1:N:373:PHE:HD2	1:N:397:VAL:HG11	1.78	0.48
1:N:396:VAL:HG11	1:N:399:ALA:HB2	1.96	0.48
1:N:471:LEU:N	1:N:471:LEU:CD2	2.76	0.48
1:P:305:LYS:HG3	1:P:477:LYS:O	2.14	0.48
1:P:396:VAL:HG11	1:P:399:ALA:HB2	1.96	0.48
5:Q:649:MYR:H21	1:R:191:LYS:NZ	2.24	0.48
1:R:354:SER:C	1:R:356:THR:H	2.21	0.48
2:U:131:ASN:O	2:U:132:LEU:C	2.56	0.48
2:U:161:VAL:CG2	2:U:410:MET:HG3	2.38	0.48
2:U:174:LEU:C	2:U:176:ALA:H	2.22	0.48
2:V:20:LEU:HD13	2:V:384:MET:HB2	1.96	0.48
2:V:140:GLN:O	2:V:144:ILE:HG12	2.14	0.48
3:W:313:LEU:O	3:W:318:VAL:CG1	2.61	0.48
3:W:493:VAL:HG21	3:W:656:PHE:CD1	2.49	0.48
3:W:765:PHE:CE2	3:W:766:LEU:HG	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:847:PRO:C	3:W:849:THR:H	2.22	0.48
3:W:1154:ARG:HD2	3:W:1189:ASN:ND2	2.16	0.48
4:X:362:THR:O	4:X:363:ALA:C	2.56	0.48
4:Y:750:MET:HB3	4:Y:837:TYR:HH	1.79	0.48
4:Y:925:LEU:O	4:Y:926:TYR:HB3	2.13	0.48
4:Y:1080:HIS:O	4:Y:1081:TYR:HB3	2.14	0.48
1:B:48:TRP:CE2	1:B:63:ILE:HD13	2.49	0.47
1:B:204:PRO:O	1:B:208:TYR:HB2	2.14	0.47
1:D:423:GLN:O	1:D:423:GLN:CG	2.62	0.47
1:F:192:ASP:O	1:F:193:ILE:C	2.56	0.47
1:F:358:LEU:HB2	1:F:417:PHE:HD2	1.77	0.47
1:F:396:VAL:HG11	1:F:399:ALA:HB2	1.96	0.47
1:H:251:SER:OG	1:H:253:VAL:HG12	2.14	0.47
1:H:396:VAL:HG11	1:H:399:ALA:HB2	1.96	0.47
1:J:55:VAL:HG22	1:J:56:ALA:N	2.29	0.47
1:J:166:ALA:CB	1:J:194:LEU:HD11	2.44	0.47
1:J:352:ASP:HB2	1:J:421:HIS:CD2	2.49	0.47
1:J:423:GLN:O	1:J:423:GLN:CG	2.62	0.47
1:J:427:GLU:CD	1:L:571:ARG:HH22	2.20	0.47
1:L:47:LEU:HD23	1:L:71:TYR:HB2	1.95	0.47
1:L:443:PHE:HE1	1:L:459:LEU:HD21	1.74	0.47
1:L:471:LEU:CD2	1:L:471:LEU:N	2.76	0.47
1:L:549:LEU:C	1:L:549:LEU:CD1	2.87	0.47
1:M:26:MET:CG	1:N:216:PRO:HG3	2.29	0.47
1:N:78:MET:O	1:N:78:MET:HG2	2.13	0.47
1:P:51:VAL:CG1	3:W:379:VAL:CG2	2.92	0.47
1:P:57:THR:O	1:P:58:ILE:CB	2.62	0.47
1:P:96:PHE:CE1	1:P:159:TRP:CH2	3.02	0.47
1:P:493:GLN:O	1:P:586:VAL:HG23	2.14	0.47
1:Q:28:SER:HB2	1:R:215:TYR:HA	1.96	0.47
1:R:96:PHE:CE1	1:R:159:TRP:CH2	3.02	0.47
1:R:305:LYS:HG3	1:R:477:LYS:O	2.14	0.47
1:T:80:GLU:HA	1:T:80:GLU:OE2	2.12	0.47
1:T:166:ALA:CB	1:T:194:LEU:HD11	2.44	0.47
3:W:30:LEU:C	3:W:30:LEU:HD13	2.39	0.47
3:W:95:PHE:HB2	3:W:125:PHE:CD1	2.49	0.47
3:W:105:LEU:HD23	3:W:105:LEU:C	2.38	0.47
3:W:439:PHE:HB3	3:W:648:THR:OG1	2.12	0.47
3:W:1102:PRO:HG3	3:W:1127:ILE:CD1	2.43	0.47
3:W:1192:LEU:HD13	3:W:1192:LEU:C	2.38	0.47
4:X:389:GLU:HG2	4:X:1194:LEU:HD21	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:393:ALA:HB1	4:X:1182:ASN:HD22	1.78	0.47
4:X:784:LEU:N	4:X:784:LEU:CD1	2.74	0.47
4:X:935:SER:CB	4:X:949:HIS:HB3	2.44	0.47
4:X:976:ASN:CA	4:X:1083:TYR:HE1	2.26	0.47
4:Y:302:LEU:CD2	4:Y:905:VAL:HG22	2.43	0.47
4:Y:842:ALA:HB3	4:Y:843:PRO:CD	2.34	0.47
1:B:166:ALA:CB	1:B:194:LEU:HD11	2.44	0.47
1:B:330:GLN:HE21	1:B:332:GLY:CA	2.26	0.47
1:B:373:PHE:HD2	1:B:397:VAL:HG11	1.78	0.47
1:C:5:GLN:O	1:C:6:THR:CB	2.61	0.47
1:D:433:GLY:O	1:D:435:PRO:HD3	2.14	0.47
1:E:5:GLN:O	1:E:6:THR:CB	2.61	0.47
1:F:373:PHE:HD2	1:F:397:VAL:HG11	1.78	0.47
1:F:427:GLU:CD	1:H:571:ARG:HH22	2.19	0.47
1:F:433:GLY:O	1:F:435:PRO:HD3	2.14	0.47
1:J:78:MET:HG2	1:J:78:MET:O	2.13	0.47
1:J:416:ARG:CB	1:L:298:PHE:HE1	2.16	0.47
1:J:443:PHE:HE1	1:J:459:LEU:HD21	1.75	0.47
1:J:549:LEU:HB3	1:L:644:LEU:CD1	2.33	0.47
1:L:305:LYS:HG3	1:L:477:LYS:O	2.14	0.47
1:N:98:ALA:HB2	1:N:206:GLU:CD	2.39	0.47
1:N:203:TYR:HB3	1:N:206:GLU:CB	2.39	0.47
1:N:469:VAL:O	1:N:469:VAL:HG13	2.13	0.47
1:O:28:SER:HA	1:P:216:PRO:CD	2.44	0.47
1:P:204:PRO:O	1:P:208:TYR:HB2	2.14	0.47
1:P:296:PRO:C	1:P:298:PHE:N	2.68	0.47
1:P:358:LEU:CB	1:P:417:PHE:HE2	2.25	0.47
1:P:471:LEU:N	1:P:471:LEU:CD2	2.76	0.47
1:R:352:ASP:HB2	1:R:421:HIS:CD2	2.49	0.47
1:R:373:PHE:HD2	1:R:397:VAL:HG11	1.78	0.47
1:R:423:GLN:O	1:R:423:GLN:CG	2.62	0.47
1:R:427:GLU:O	1:R:428:ARG:C	2.56	0.47
1:T:469:VAL:O	1:T:469:VAL:HG13	2.12	0.47
1:T:493:GLN:O	1:T:586:VAL:HG23	2.14	0.47
1:T:633:ALA:O	1:T:636:ALA:HB3	2.14	0.47
2:V:10:THR:HG23	2:V:73:GLY:HA3	1.95	0.47
2:V:12:ASN:ND2	2:V:14:TYR:H	2.12	0.47
3:W:192:ALA:CB	3:W:333:VAL:HG21	2.44	0.47
3:W:1052:ILE:CG2	3:W:1112:LEU:HD22	2.43	0.47
3:W:1054:SER:HB3	3:W:1096:PHE:CE2	2.49	0.47
3:W:1062:SER:O	3:W:1111:PHE:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:1206:TYR:CD1	3:W:1222:PRO:HB3	2.49	0.47
4:X:311:ILE:HD11	4:X:406:LEU:CD2	2.43	0.47
4:X:865:VAL:HG12	4:X:958:HIS:HB2	1.95	0.47
4:X:887:ALA:HB3	4:X:969:MET:HE1	1.95	0.47
4:Y:32:SER:OG	4:Y:70:SER:HB2	2.13	0.47
4:Y:617:HIS:CD2	4:Y:619:GLY:H	2.32	0.47
4:Y:1020:ILE:HD13	4:Y:1031:LEU:HA	1.96	0.47
4:Y:1049:SER:HB2	4:Y:1078:LEU:HG	1.96	0.47
1:B:96:PHE:CE1	1:B:159:TRP:CH2	3.02	0.47
1:B:560:PRO:HB2	1:B:562:TYR:CE2	2.50	0.47
1:C:29:THR:HG22	1:H:609:ARG:HD2	1.91	0.47
1:D:203:TYR:HB3	1:D:206:GLU:CB	2.39	0.47
1:D:297:ALA:CB	1:D:460:MET:HB2	2.33	0.47
1:D:305:LYS:HG3	1:D:477:LYS:O	2.14	0.47
1:D:352:ASP:HB2	1:D:421:HIS:CD2	2.49	0.47
1:D:382:ILE:O	1:D:383:GLN:HB2	2.14	0.47
1:F:47:LEU:HD23	1:F:71:TYR:HB2	1.95	0.47
1:F:330:GLN:HE21	1:F:332:GLY:CA	2.26	0.47
1:F:564:LEU:CD2	1:F:568:ARG:NH2	2.75	0.47
1:H:305:LYS:HG3	1:H:477:LYS:O	2.14	0.47
1:H:433:GLY:O	1:H:435:PRO:HD3	2.14	0.47
1:H:560:PRO:HB2	1:H:562:TYR:CE2	2.50	0.47
1:H:561:ASP:O	1:H:562:TYR:CB	2.62	0.47
1:J:46:LYS:NZ	1:N:237:GLU:CD	2.68	0.47
1:J:373:PHE:HD2	1:J:397:VAL:HG11	1.78	0.47
1:J:560:PRO:HB2	1:J:562:TYR:CE2	2.50	0.47
1:L:154:ARG:HB3	1:L:154:ARG:CZ	2.44	0.47
1:N:365:ASP:OD1	1:N:452:SER:HB2	2.15	0.47
1:P:423:GLN:O	1:P:423:GLN:CG	2.62	0.47
1:T:354:SER:C	1:T:356:THR:H	2.21	0.47
2:U:367:GLU:OE2	2:U:394:PHE:HB3	2.14	0.47
2:V:7:PHE:O	2:V:315:LEU:HD21	2.14	0.47
3:W:8:GLN:HB2	3:W:321:GLU:HG2	1.95	0.47
3:W:226:VAL:HG11	3:W:239:LEU:HD22	1.95	0.47
3:W:910:LEU:HD13	3:W:910:LEU:C	2.40	0.47
3:W:993:PRO:HA	3:W:1017:ILE:HD13	1.96	0.47
4:X:474:GLU:HG2	4:X:474:GLU:O	2.14	0.47
4:X:633:PRO:CG	4:X:640:ARG:HH11	2.24	0.47
4:X:925:LEU:C	4:X:925:LEU:HD23	2.38	0.47
4:Y:46:ALA:O	4:Y:49:GLN:HG2	2.14	0.47
4:Y:105:SER:O	4:Y:106:MET:C	2.57	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:202:THR:HG22	4:Y:392:ASP:H	1.79	0.47
4:Y:283:ILE:HG12	4:Y:287:GLN:O	2.15	0.47
4:Y:413:PRO:HB2	4:Y:434:ILE:CD1	2.39	0.47
4:Y:462:ILE:HG21	4:Y:469:ALA:HB2	1.95	0.47
4:Y:728:THR:C	4:Y:729:MET:HE2	2.40	0.47
4:Y:790:PRO:HG3	4:Y:793:ARG:NH2	2.30	0.47
1:B:352:ASP:HB2	1:B:421:HIS:CD2	2.49	0.47
1:B:396:VAL:HG11	1:B:399:ALA:HB2	1.96	0.47
1:B:521:VAL:HG23	1:B:522:GLY:N	2.30	0.47
1:C:28:SER:HA	1:D:216:PRO:CD	2.44	0.47
1:D:174:ILE:HD11	1:D:178:SER:HA	1.95	0.47
1:D:204:PRO:O	1:D:208:TYR:HB2	2.14	0.47
1:D:471:LEU:CD2	1:D:471:LEU:N	2.76	0.47
1:D:560:PRO:HB2	1:D:562:TYR:CE2	2.50	0.47
1:F:78:MET:O	1:F:78:MET:HG2	2.13	0.47
1:H:166:ALA:CB	1:H:194:LEU:HD11	2.44	0.47
1:H:341:MET:CE	1:H:341:MET:CA	2.88	0.47
1:H:369:SER:OG	1:H:443:PHE:CD2	2.64	0.47
1:H:373:PHE:HA	1:H:441:GLY:HA2	1.95	0.47
1:H:427:GLU:O	1:H:428:ARG:C	2.56	0.47
1:H:469:VAL:O	1:H:469:VAL:HG13	2.13	0.47
1:J:96:PHE:CE1	1:J:159:TRP:CH2	3.02	0.47
1:J:174:ILE:HD11	1:J:178:SER:HA	1.95	0.47
1:J:365:ASP:OD1	1:J:452:SER:HB2	2.15	0.47
1:J:521:VAL:HG23	1:J:522:GLY:N	2.30	0.47
1:J:549:LEU:C	1:J:549:LEU:CD1	2.86	0.47
1:K:28:SER:HB2	1:L:215:TYR:HA	1.96	0.47
1:L:433:GLY:O	1:L:435:PRO:HD3	2.14	0.47
1:L:493:GLN:O	1:L:586:VAL:HG23	2.14	0.47
1:L:560:PRO:HB2	1:L:562:TYR:CE2	2.50	0.47
1:Q:28:SER:HA	1:R:216:PRO:CD	2.44	0.47
1:R:162:HIS:CD2	1:R:199:LEU:HB2	2.48	0.47
1:T:274:ILE:HD12	1:T:514:LEU:HD23	1.94	0.47
1:T:470:LEU:HD11	1:T:472:ARG:NH1	2.26	0.47
1:T:549:LEU:C	1:T:549:LEU:CD1	2.87	0.47
2:U:328:TYR:CG	2:U:333:MET:HE2	2.50	0.47
2:V:64:ARG:NH2	4:X:1027:LEU:CD1	2.78	0.47
2:V:250:TRP:CZ3	4:Y:956:HIS:CE1	3.02	0.47
2:V:299:LEU:HB2	2:V:322:VAL:HG12	1.97	0.47
2:V:348:THR:HG22	2:V:350:ALA:H	1.78	0.47
3:W:391:VAL:CG1	3:W:790:ARG:HH11	2.27	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:494:PHE:HA	3:W:497:LEU:HB2	1.96	0.47
3:W:998:LEU:C	3:W:1000:TYR:N	2.73	0.47
4:X:416:ILE:CD1	4:X:1207:ILE:HG21	2.45	0.47
4:Y:202:THR:HG21	4:Y:390:LEU:HD12	1.96	0.47
4:Y:317:PHE:H	4:Y:317:PHE:HD1	1.61	0.47
4:Y:325:THR:HG21	4:Y:347:ARG:HA	1.96	0.47
4:Y:589:LEU:O	4:Y:593:LEU:CD2	2.60	0.47
4:Y:618:PRO:CG	4:Y:779:VAL:HG13	2.44	0.47
4:Y:1020:ILE:HD11	4:Y:1041:ILE:HD11	1.95	0.47
4:Y:1078:LEU:N	4:Y:1078:LEU:HD12	2.29	0.47
4:Y:1088:TYR:CE1	4:Y:1132:ARG:HD3	2.50	0.47
1:A:13:ILE:HG13	1:B:208:TYR:CG	2.50	0.47
1:A:41:LEU:O	1:A:42:ASN:CB	2.37	0.47
1:B:633:ALA:O	1:B:636:ALA:HB3	2.14	0.47
1:D:274:ILE:HD12	1:D:514:LEU:HD23	1.94	0.47
1:F:521:VAL:HG23	1:F:522:GLY:N	2.30	0.47
1:H:315:LEU:N	1:H:315:LEU:HD23	2.28	0.47
1:H:420:LEU:HD12	1:H:422:LEU:HD23	1.95	0.47
1:J:251:SER:OG	1:J:253:VAL:HG12	2.14	0.47
1:J:369:SER:OG	1:J:443:PHE:CD2	2.64	0.47
1:J:471:LEU:CD2	1:J:471:LEU:N	2.76	0.47
1:J:493:GLN:O	1:J:586:VAL:HG23	2.14	0.47
1:J:633:ALA:O	1:J:636:ALA:HB3	2.14	0.47
1:K:13:ILE:HG13	1:L:208:TYR:CG	2.50	0.47
1:L:120:GLY:HA3	1:L:126:ALA:HA	1.95	0.47
1:L:164:ASP:C	1:L:166:ALA:N	2.71	0.47
1:L:174:ILE:HD11	1:L:178:SER:HA	1.95	0.47
1:L:251:SER:OG	1:L:253:VAL:HG12	2.14	0.47
1:N:305:LYS:HG3	1:N:477:LYS:O	2.14	0.47
1:N:355:GLY:O	1:N:416:ARG:HD2	2.13	0.47
1:N:521:VAL:HG23	1:N:522:GLY:N	2.30	0.47
5:O:649:MYR:H72	1:P:200:CYS:HG	1.75	0.47
1:P:78:MET:O	1:P:78:MET:HG2	2.13	0.47
1:P:352:ASP:HB2	1:P:421:HIS:CD2	2.49	0.47
1:P:382:ILE:O	1:P:383:GLN:HB2	2.14	0.47
1:P:433:GLY:O	1:P:435:PRO:HD3	2.14	0.47
1:R:166:ALA:CB	1:R:194:LEU:HD11	2.44	0.47
1:R:355:GLY:O	1:R:416:ARG:HD2	2.13	0.47
1:R:365:ASP:OD1	1:R:452:SER:HB2	2.15	0.47
1:R:633:ALA:O	1:R:636:ALA:HB3	2.14	0.47
1:S:28:SER:HA	1:T:216:PRO:CD	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:78:MET:HG2	1:T:78:MET:O	2.13	0.47
1:T:352:ASP:HB2	1:T:421:HIS:CD2	2.49	0.47
2:U:12:ASN:HD22	2:U:12:ASN:C	2.21	0.47
2:U:318:ASN:H	2:U:322:VAL:CG1	2.26	0.47
3:W:620:VAL:HG23	3:W:657:LEU:CD1	2.45	0.47
3:W:642:LEU:HD12	3:W:668:LEU:HD13	1.96	0.47
3:W:1163:LEU:HD13	3:W:1207:LEU:HB3	1.95	0.47
4:X:242:ARG:NH2	4:X:1085:LEU:HD11	2.23	0.47
4:X:263:LEU:N	4:X:263:LEU:HD22	2.29	0.47
4:X:298:LEU:O	4:X:298:LEU:HD23	2.13	0.47
4:X:419:ILE:HA	4:X:660:SER:CB	2.44	0.47
4:X:578:ASP:HA	4:X:579:PRO:HD3	1.75	0.47
4:Y:250:ALA:HA	4:Y:336:ARG:NH2	2.30	0.47
4:Y:355:LYS:CE	4:Y:1161:ASN:OD1	2.63	0.47
4:Y:632:ASN:HB2	4:Y:635:GLN:CB	2.30	0.47
4:Y:1048:PRO:HG2	4:Y:1051:VAL:HG23	1.95	0.47
4:Y:1088:TYR:O	4:Y:1121:ILE:HG13	2.14	0.47
1:A:28:SER:HA	1:B:216:PRO:CD	2.44	0.47
1:B:382:ILE:HB	1:B:438:TYR:CZ	2.50	0.47
1:B:423:GLN:O	1:B:423:GLN:CG	2.62	0.47
1:D:98:ALA:HB2	1:D:206:GLU:CD	2.39	0.47
1:D:633:ALA:O	1:D:636:ALA:HB3	2.14	0.47
1:F:237:GLU:CD	1:H:46:LYS:NZ	2.68	0.47
1:F:354:SER:C	1:F:356:THR:H	2.21	0.47
1:J:49:ARG:NH1	2:V:405:ALA:HB1	2.29	0.47
1:J:227:LEU:O	1:J:228:PRO:O	2.33	0.47
1:J:298:PHE:HE1	1:N:416:ARG:CB	2.16	0.47
1:L:204:PRO:O	1:L:208:TYR:HB2	2.14	0.47
1:L:358:LEU:HB2	1:L:417:PHE:HD2	1.77	0.47
1:L:382:ILE:O	1:L:383:GLN:HB2	2.14	0.47
1:L:382:ILE:HB	1:L:438:TYR:CZ	2.50	0.47
1:N:369:SER:HB2	1:N:445:ILE:HA	1.97	0.47
1:N:420:LEU:HD12	1:N:422:LEU:HD23	1.96	0.47
1:N:493:GLN:O	1:N:586:VAL:HG23	2.14	0.47
1:N:561:ASP:O	1:N:562:TYR:CB	2.62	0.47
1:O:5:GLN:O	1:O:6:THR:CB	2.61	0.47
1:P:166:ALA:CB	1:P:194:LEU:HD11	2.44	0.47
1:P:365:ASP:OD1	1:P:452:SER:HB2	2.15	0.47
1:P:382:ILE:HB	1:P:438:TYR:CZ	2.50	0.47
1:R:433:GLY:O	1:R:435:PRO:HD3	2.15	0.47
1:T:300:LYS:HB3	1:T:302:GLU:OE1	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:382:ILE:HB	1:T:438:TYR:CZ	2.50	0.47
1:T:560:PRO:HB2	1:T:562:TYR:CE2	2.50	0.47
1:T:564:LEU:CD2	1:T:568:ARG:NH2	2.75	0.47
2:U:92:TRP:CD1	2:U:97:LEU:HD22	2.50	0.47
2:V:8:GLY:HA2	2:V:146:THR:OG1	2.15	0.47
3:W:398:LEU:CD1	3:W:790:ARG:HH21	2.27	0.47
3:W:453:PRO:HB2	3:W:456:GLN:CG	2.44	0.47
4:X:192:GLU:O	4:X:192:GLU:CG	2.62	0.47
4:X:429:ASN:HD22	4:X:429:ASN:H	1.57	0.47
4:X:470:LEU:N	4:X:471:PRO:CD	2.78	0.47
4:X:589:LEU:HD23	4:X:589:LEU:C	2.40	0.47
4:X:660:SER:C	4:X:673:ASN:ND2	2.73	0.47
4:X:704:THR:HG23	4:X:705:ILE:N	2.30	0.47
4:X:732:VAL:CG1	4:X:732:VAL:O	2.62	0.47
4:X:734:THR:HG22	4:X:738:GLN:OE1	2.15	0.47
4:X:1058:VAL:O	4:X:1059:PHE:C	2.58	0.47
4:Y:164:TRP:CG	4:Y:165:ASP:N	2.82	0.47
4:Y:288:PHE:O	4:Y:290:PRO:HD3	2.14	0.47
4:Y:778:ASP:C	4:Y:940:GLN:HB3	2.40	0.47
4:Y:998:PRO:HG3	4:Y:1138:THR:O	2.15	0.47
4:Y:1024:PRO:O	4:Y:1025:ASN:HB3	2.14	0.47
5:A:649:MYR:C4	1:B:187:LEU:HD22	2.45	0.47
1:B:48:TRP:N	1:B:48:TRP:HD1	2.09	0.47
1:B:355:GLY:O	1:B:416:ARG:HD2	2.13	0.47
1:B:358:LEU:CB	1:B:417:PHE:HE2	2.25	0.47
1:B:369:SER:HB2	1:B:445:ILE:HA	1.97	0.47
1:C:28:SER:HB2	1:D:215:TYR:HA	1.96	0.47
1:D:166:ALA:CB	1:D:194:LEU:HD11	2.44	0.47
1:D:251:SER:OG	1:D:253:VAL:HG12	2.14	0.47
1:D:365:ASP:OD1	1:D:452:SER:HB2	2.15	0.47
1:D:561:ASP:O	1:D:562:TYR:CB	2.62	0.47
1:F:48:TRP:N	1:F:48:TRP:HD1	2.09	0.47
1:F:166:ALA:CB	1:F:194:LEU:HD11	2.44	0.47
1:F:365:ASP:OD1	1:F:452:SER:HB2	2.15	0.47
1:F:423:GLN:O	1:F:423:GLN:CG	2.62	0.47
1:F:436:TYR:HH	1:N:435:PRO:HG2	1.74	0.47
1:F:493:GLN:O	1:F:586:VAL:HG23	2.14	0.47
1:H:352:ASP:HB2	1:H:421:HIS:CD2	2.49	0.47
1:H:382:ILE:HB	1:H:438:TYR:CZ	2.49	0.47
1:H:423:GLN:O	1:H:423:GLN:CG	2.62	0.47
1:H:564:LEU:HD23	1:H:564:LEU:C	2.40	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:28:SER:HA	1:J:216:PRO:CD	2.44	0.47
5:I:649:MYR:C4	1:J:187:LEU:HD22	2.45	0.47
1:J:48:TRP:N	1:J:48:TRP:HD1	2.09	0.47
1:J:164:ASP:C	1:J:166:ALA:N	2.70	0.47
1:J:298:PHE:CE1	1:N:355:GLY:HA2	2.47	0.47
1:J:382:ILE:O	1:J:383:GLN:HB2	2.14	0.47
1:J:433:GLY:O	1:J:435:PRO:HD3	2.14	0.47
1:J:561:ASP:O	1:J:562:TYR:CB	2.62	0.47
1:J:561:ASP:O	1:J:563:PRO:CD	2.62	0.47
1:K:5:GLN:O	1:K:6:THR:CB	2.61	0.47
5:K:649:MYR:H102	1:L:200:CYS:HG	1.73	0.47
1:L:227:LEU:O	1:L:228:PRO:O	2.33	0.47
1:M:13:ILE:HG13	1:N:208:TYR:CG	2.50	0.47
1:N:154:ARG:HB3	1:N:154:ARG:CZ	2.44	0.47
1:N:164:ASP:C	1:N:166:ALA:N	2.71	0.47
1:N:352:ASP:HB2	1:N:421:HIS:CD2	2.49	0.47
1:N:521:VAL:HG21	1:N:577:VAL:HG22	1.95	0.47
1:P:46:LYS:NZ	1:T:237:GLU:OE1	2.38	0.47
1:P:431:ILE:CD1	1:P:437:ILE:HG23	2.39	0.47
1:P:633:ALA:O	1:P:636:ALA:HB3	2.14	0.47
1:R:204:PRO:O	1:R:208:TYR:HB2	2.14	0.47
1:R:560:PRO:HB2	1:R:562:TYR:CE2	2.50	0.47
1:S:5:GLN:O	1:S:6:THR:CB	2.61	0.47
1:T:365:ASP:OD1	1:T:452:SER:HB2	2.15	0.47
1:T:373:PHE:HD2	1:T:397:VAL:HG11	1.78	0.47
1:T:423:GLN:O	1:T:423:GLN:CG	2.62	0.47
1:T:521:VAL:HG21	1:T:577:VAL:HG22	1.95	0.47
1:T:564:LEU:C	1:T:564:LEU:HD23	2.40	0.47
2:U:250:TRP:CE3	4:X:436:LEU:HD13	2.50	0.47
2:U:253:GLY:O	2:U:254:ALA:C	2.58	0.47
2:V:268:ARG:HB3	2:V:327:ASP:OD1	2.13	0.47
3:W:57:THR:HG22	3:W:183:TYR:CD2	2.48	0.47
3:W:146:SER:N	3:W:147:PRO:CD	2.77	0.47
3:W:241:LEU:HD23	3:W:241:LEU:O	2.15	0.47
3:W:368:PRO:O	3:W:369:ILE:HG13	2.14	0.47
3:W:534:LEU:HD22	3:W:551:ILE:HG21	1.96	0.47
3:W:577:LEU:CD2	3:W:579:TYR:H	2.26	0.47
3:W:603:LEU:HD22	3:W:635:TYR:CE1	2.49	0.47
3:W:769:ARG:NH1	3:W:1000:TYR:OH	2.46	0.47
3:W:860:CYS:HB2	3:W:874:TYR:CZ	2.49	0.47
3:W:882:ALA:HA	3:W:920:ARG:CZ	2.44	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:955:VAL:HA	3:W:966:PRO:HA	1.97	0.47
3:W:1017:ILE:O	3:W:1017:ILE:HG22	2.13	0.47
3:W:1044:LEU:O	3:W:1045:ASN:HB2	2.13	0.47
3:W:1143:GLN:HA	3:W:1143:GLN:OE1	2.15	0.47
3:W:1180:LYS:HB2	3:W:1278:THR:O	2.14	0.47
3:W:1239:ALA:HB2	3:W:1289:LEU:HD21	1.96	0.47
4:X:327:GLY:O	4:X:328:ARG:O	2.32	0.47
4:X:679:TRP:CZ3	4:X:697:MET:HA	2.49	0.47
4:X:862:GLU:CG	4:X:957:ILE:HD12	2.44	0.47
4:X:1149:THR:HB	4:X:1162:ALA:N	2.29	0.47
4:Y:104:GLN:CD	4:Y:104:GLN:N	2.71	0.47
4:Y:260:GLU:OE1	4:Y:262:ARG:NH2	2.48	0.47
4:Y:294:ARG:HH21	4:Y:890:GLN:HB3	1.80	0.47
4:Y:324:ILE:HG23	4:Y:325:THR:HG23	1.97	0.47
4:Y:350:LEU:O	4:Y:352:THR:N	2.47	0.47
4:Y:459:LEU:HD12	4:Y:459:LEU:HA	1.78	0.47
4:Y:575:MET:HG2	4:Y:818:ILE:CG2	2.45	0.47
4:Y:662:LEU:N	4:Y:662:LEU:CD1	2.77	0.47
4:Y:684:LEU:HD11	4:Y:750:MET:HE3	1.97	0.47
4:Y:865:VAL:HB	4:Y:955:SER:CB	2.44	0.47
4:Y:1027:LEU:HD12	4:Y:1027:LEU:N	2.11	0.47
1:B:227:LEU:O	1:B:228:PRO:O	2.33	0.47
1:B:251:SER:OG	1:B:253:VAL:HG12	2.14	0.47
1:B:271:LEU:HD12	1:B:271:LEU:HA	1.79	0.47
1:D:396:VAL:HG11	1:D:399:ALA:HB2	1.96	0.47
1:D:420:LEU:HD12	1:D:422:LEU:HD23	1.95	0.47
1:D:521:VAL:HG23	1:D:522:GLY:N	2.30	0.47
1:F:355:GLY:CA	1:H:298:PHE:CZ	2.80	0.47
1:H:561:ASP:O	1:H:563:PRO:CD	2.62	0.47
1:H:564:LEU:CD2	1:H:568:ARG:NH2	2.75	0.47
1:L:564:LEU:C	1:L:564:LEU:HD23	2.40	0.47
1:N:166:ALA:CB	1:N:194:LEU:HD11	2.44	0.47
1:N:204:PRO:O	1:N:208:TYR:HB2	2.14	0.47
1:N:251:SER:OG	1:N:253:VAL:HG12	2.14	0.47
1:N:382:ILE:HB	1:N:438:TYR:CZ	2.50	0.47
1:P:420:LEU:HD12	1:P:422:LEU:HD23	1.96	0.47
1:P:428:ARG:NH1	1:P:428:ARG:CG	2.76	0.47
1:R:561:ASP:O	1:R:563:PRO:CD	2.62	0.47
1:T:561:ASP:O	1:T:563:PRO:CD	2.62	0.47
2:U:241:LEU:CB	4:X:1179:VAL:HG11	2.44	0.47
2:U:398:GLY:O	2:U:399:GLN:C	2.56	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:V:175:MET:HB2	4:Y:404:MET:HE2	1.97	0.47
3:W:209:THR:O	3:W:212:ALA:HB3	2.15	0.47
3:W:805:VAL:HG13	3:W:1006:SER:HB3	1.95	0.47
3:W:938:TYR:CG	3:W:1021:ARG:HD3	2.50	0.47
4:X:368:ILE:CG1	4:X:369:GLY:H	2.04	0.47
4:X:400:GLU:C	4:X:402:TYR:H	2.23	0.47
4:X:425:ASN:N	4:X:425:ASN:ND2	2.49	0.47
4:X:914:ASP:CG	4:X:914:ASP:O	2.58	0.47
4:X:1182:ASN:O	4:X:1184:LEU:N	2.48	0.47
4:Y:271:VAL:HG23	4:Y:288:PHE:HB3	1.96	0.47
4:Y:417:VAL:HG12	4:Y:421:ASN:ND2	2.30	0.47
4:Y:906:ASN:HD21	4:Y:921:ASP:HB3	1.78	0.47
4:Y:1087:TYR:HB3	4:Y:1121:ILE:HG12	1.96	0.47
1:B:493:GLN:O	1:B:586:VAL:HG23	2.14	0.47
1:B:561:ASP:O	1:B:562:TYR:CB	2.62	0.47
1:B:564:LEU:HD23	1:B:564:LEU:C	2.40	0.47
1:C:13:ILE:HG13	1:D:208:TYR:CG	2.50	0.47
5:C:649:MYR:C4	1:D:187:LEU:HD22	2.45	0.47
1:D:56:ALA:HB1	1:D:61:LEU:HG	1.96	0.47
1:D:564:LEU:C	1:D:564:LEU:HD23	2.40	0.47
5:E:649:MYR:H21	1:F:191:LYS:NZ	2.24	0.47
5:E:649:MYR:C4	1:F:187:LEU:HD22	2.45	0.47
1:F:164:ASP:C	1:F:166:ALA:N	2.71	0.47
1:G:28:SER:HA	1:H:216:PRO:CD	2.44	0.47
1:H:203:TYR:HB3	1:H:206:GLU:CB	2.39	0.47
1:J:96:PHE:CD1	1:J:101:THR:HG23	2.44	0.47
1:J:161:LYS:HB2	1:J:161:LYS:HE2	1.64	0.47
1:L:96:PHE:CD1	1:L:101:THR:HG23	2.44	0.47
1:N:382:ILE:O	1:N:383:GLN:HB2	2.14	0.47
1:N:423:GLN:O	1:N:423:GLN:CG	2.63	0.47
1:N:561:ASP:O	1:N:563:PRO:CD	2.62	0.47
1:N:633:ALA:O	1:N:636:ALA:HB3	2.14	0.47
1:P:365:ASP:HB3	1:P:452:SER:OG	2.15	0.47
1:R:251:SER:OG	1:R:253:VAL:HG12	2.14	0.47
1:T:305:LYS:HG3	1:T:477:LYS:O	2.14	0.47
1:T:382:ILE:O	1:T:383:GLN:HB2	2.14	0.47
2:U:329:ASN:CG	2:U:332:PRO:HD2	2.39	0.47
2:V:43:HIS:HB2	4:X:1027:LEU:HD11	1.97	0.47
3:W:47:LEU:HD23	3:W:60:GLN:CB	2.45	0.47
3:W:217:LEU:HA	3:W:220:LEU:HD22	1.97	0.47
3:W:464:TYR:CE1	3:W:473:ARG:NH1	2.83	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:691:ALA:HA	3:W:999:PRO:HB3	1.97	0.47
3:W:923:ALA:C	3:W:925:GLY:H	2.23	0.47
3:W:1008:LEU:C	3:W:1008:LEU:HD12	2.39	0.47
4:X:456:VAL:O	4:X:460:VAL:HG23	2.14	0.47
4:X:693:TYR:N	4:X:693:TYR:CD2	2.83	0.47
4:X:718:THR:OG1	4:X:726:ARG:NH1	2.48	0.47
4:X:920:LEU:O	4:X:920:LEU:HD13	2.15	0.47
4:X:1031:LEU:C	4:X:1031:LEU:HD13	2.40	0.47
4:X:1156:THR:HG21	4:X:1161:ASN:HA	1.97	0.47
4:Y:442:CYS:HB3	4:Y:444:TRP:CE2	2.50	0.47
4:Y:649:ASN:HD22	4:Y:649:ASN:HA	1.54	0.47
1:B:92:TRP:CD2	1:B:156:VAL:HG23	2.51	0.47
1:B:433:GLY:O	1:B:435:PRO:HD3	2.15	0.47
1:D:238:VAL:CG2	1:F:78:MET:HE1	2.07	0.47
1:E:13:ILE:HG13	1:F:208:TYR:CG	2.50	0.47
1:F:431:ILE:HD11	1:F:437:ILE:CG2	2.45	0.47
1:F:560:PRO:HB2	1:F:562:TYR:CE2	2.50	0.47
1:H:58:ILE:CG1	1:H:127:LEU:HD23	2.45	0.47
1:H:275:GLU:HG2	1:H:275:GLU:O	2.15	0.47
1:H:358:LEU:HB2	1:H:417:PHE:HD2	1.77	0.47
1:H:365:ASP:OD1	1:H:452:SER:HB2	2.15	0.47
1:J:564:LEU:HD23	1:J:564:LEU:C	2.40	0.47
1:J:578:SER:OG	1:N:468:PRO:O	2.21	0.47
1:L:352:ASP:HB2	1:L:421:HIS:CD2	2.49	0.47
1:L:588:ILE:HD13	1:L:588:ILE:HA	1.80	0.47
1:N:48:TRP:CE2	1:N:63:ILE:HD13	2.49	0.47
1:N:58:ILE:CG1	1:N:127:LEU:HD23	2.45	0.47
1:N:560:PRO:HB2	1:N:562:TYR:CE2	2.50	0.47
1:N:564:LEU:CD2	1:N:568:ARG:NH2	2.75	0.47
1:O:13:ILE:HG13	1:P:208:TYR:CG	2.50	0.47
5:O:649:MYR:C4	1:P:187:LEU:HD22	2.45	0.47
1:Q:5:GLN:O	1:Q:6:THR:CB	2.61	0.47
1:R:561:ASP:O	1:R:562:TYR:CB	2.62	0.47
1:R:564:LEU:HD23	1:R:564:LEU:C	2.40	0.47
1:T:58:ILE:O	1:T:58:ILE:CG2	2.62	0.47
1:T:169:MET:HG2	1:T:169:MET:O	2.15	0.47
3:W:934:ASN:HD22	3:W:934:ASN:N	2.04	0.47
3:W:986:LEU:HD23	3:W:1028:ILE:HG23	1.97	0.47
4:X:200:LEU:CD1	4:X:343:ALA:HA	2.45	0.47
4:X:386:GLU:HG3	4:X:1195:TYR:CE1	2.50	0.47
4:X:853:ARG:CZ	4:X:853:ARG:HB3	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:958:HIS:HD2	4:X:958:HIS:O	1.97	0.47
1:B:169:MET:O	1:B:169:MET:HG2	2.15	0.46
1:B:536:THR:HG22	1:B:573:ALA:HB3	1.97	0.46
1:B:564:LEU:CD2	1:B:568:ARG:NH2	2.75	0.46
1:C:26:MET:O	1:C:26:MET:CG	2.60	0.46
1:D:173:ASP:HB2	1:H:606:THR:HG22	1.94	0.46
1:D:427:GLU:CD	1:F:571:ARG:HH22	2.20	0.46
1:F:154:ARG:HB3	1:F:154:ARG:CZ	2.43	0.46
1:F:251:SER:OG	1:F:253:VAL:HG12	2.15	0.46
1:F:355:GLY:HA2	1:H:298:PHE:CE1	2.47	0.46
1:F:525:ILE:HD11	1:F:604:VAL:HA	1.98	0.46
1:H:48:TRP:N	1:H:48:TRP:HD1	2.09	0.46
1:I:28:SER:HB2	1:J:215:TYR:HA	1.96	0.46
1:L:92:TRP:CD2	1:L:156:VAL:HG23	2.51	0.46
1:L:365:ASP:OD1	1:L:452:SER:HB2	2.15	0.46
1:M:28:SER:HA	1:N:216:PRO:CD	2.44	0.46
1:O:28:SER:HB2	1:P:215:TYR:HA	1.96	0.46
1:P:128:ASP:CB	1:T:107:VAL:HG11	2.45	0.46
1:R:431:ILE:O	1:R:431:ILE:HG23	2.10	0.46
1:T:58:ILE:CG1	1:T:127:LEU:HD23	2.45	0.46
2:U:12:ASN:O	2:U:14:TYR:N	2.48	0.46
2:U:243:PRO:C	2:U:245:GLN:H	2.23	0.46
2:V:119:LEU:HD13	2:V:313:ALA:HB2	1.96	0.46
3:W:436:GLY:CA	3:W:1009:ASN:HA	2.34	0.46
3:W:610:THR:HG21	3:W:616:SER:HB3	1.96	0.46
3:W:850:LEU:HD23	3:W:851:GLN:N	2.30	0.46
3:W:1075:PRO:HA	3:W:1087:LEU:HD13	1.97	0.46
3:W:1180:LYS:HD3	3:W:1278:THR:O	2.16	0.46
3:W:1224:VAL:O	3:W:1224:VAL:HG12	2.15	0.46
4:X:364:ILE:CG1	4:X:367:ARG:HH21	2.25	0.46
4:X:491:THR:O	4:X:495:ASN:HB2	2.15	0.46
4:X:814:ASP:OD2	4:X:816:ALA:HB3	2.16	0.46
4:X:841:PHE:O	4:X:842:ALA:C	2.58	0.46
4:X:1064:TRP:HB3	4:X:1065:PRO:HD3	1.97	0.46
4:Y:383:ALA:HB1	4:Y:439:THR:CG2	2.45	0.46
4:Y:658:TYR:CD2	4:Y:675:MET:HG3	2.50	0.46
4:Y:990:ASN:CG	4:Y:990:ASN:O	2.58	0.46
1:E:28:SER:HA	1:F:216:PRO:CD	2.44	0.46
1:F:365:ASP:HB3	1:F:452:SER:OG	2.15	0.46
1:G:26:MET:O	1:G:26:MET:CG	2.60	0.46
1:H:78:MET:O	1:H:78:MET:HG2	2.13	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:137:ILE:HD13	1:H:142:ILE:HG12	1.97	0.46
1:H:521:VAL:HG23	1:H:522:GLY:N	2.30	0.46
1:H:521:VAL:HG21	1:H:577:VAL:HG22	1.95	0.46
1:I:13:ILE:HG13	1:J:208:TYR:CG	2.50	0.46
1:J:128:ASP:CB	1:N:107:VAL:HG11	2.45	0.46
1:J:137:ILE:HD13	1:J:142:ILE:HG12	1.98	0.46
1:J:305:LYS:HG3	1:J:477:LYS:O	2.14	0.46
1:J:369:SER:HB2	1:J:445:ILE:HA	1.97	0.46
1:J:382:ILE:HB	1:J:438:TYR:CZ	2.50	0.46
1:K:28:SER:HA	1:L:216:PRO:CD	2.44	0.46
1:L:423:GLN:O	1:L:423:GLN:CG	2.62	0.46
1:N:227:LEU:O	1:N:228:PRO:O	2.33	0.46
1:N:433:GLY:O	1:N:435:PRO:HD3	2.14	0.46
1:P:251:SER:OG	1:P:253:VAL:HG12	2.14	0.46
1:P:525:ILE:HD11	1:P:604:VAL:HA	1.97	0.46
1:Q:24:SER:HB2	1:R:175:SER:C	2.41	0.46
1:R:227:LEU:O	1:R:228:PRO:O	2.33	0.46
1:R:354:SER:HB3	1:R:419:MET:HG2	1.97	0.46
1:R:382:ILE:HB	1:R:438:TYR:CZ	2.50	0.46
1:R:382:ILE:O	1:R:383:GLN:HB2	2.14	0.46
1:S:13:ILE:HG13	1:T:208:TYR:CG	2.50	0.46
1:T:251:SER:OG	1:T:253:VAL:HG12	2.14	0.46
1:T:536:THR:HG22	1:T:573:ALA:HB3	1.98	0.46
1:T:559:PRO:O	1:T:560:PRO:C	2.58	0.46
2:U:223:LEU:O	2:U:233:TYR:HB2	2.16	0.46
2:V:151:SER:OG	2:V:268:ARG:HD2	2.15	0.46
2:V:386:ILE:O	2:V:387:GLN:HB3	2.14	0.46
3:W:225:THR:HG22	3:W:226:VAL:N	2.30	0.46
3:W:233:PRO:HG3	3:W:237:PRO:HA	1.97	0.46
3:W:955:VAL:HG22	3:W:956:TYR:N	2.30	0.46
4:X:205:MET:HB3	4:X:249:TRP:CE2	2.50	0.46
4:X:417:VAL:HG21	4:X:432:ILE:HG22	1.97	0.46
4:X:696:ALA:O	4:X:697:MET:C	2.59	0.46
4:X:1064:TRP:CE3	4:X:1064:TRP:HA	2.51	0.46
4:X:1106:LYS:CB	4:X:1113:PRO:HG2	2.39	0.46
4:Y:602:GLY:HA3	4:Y:623:PRO:CD	2.45	0.46
1:D:128:ASP:CB	1:H:107:VAL:HG11	2.45	0.46
1:D:365:ASP:HB3	1:D:452:SER:OG	2.15	0.46
1:D:369:SER:HB2	1:D:445:ILE:HA	1.97	0.46
1:H:358:LEU:CB	1:H:417:PHE:HE2	2.24	0.46
1:H:365:ASP:HB3	1:H:452:SER:OG	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:369:SER:HB2	1:H:445:ILE:HA	1.97	0.46
5:I:649:MYR:C2	1:J:191:LYS:HZ1	2.28	0.46
1:J:365:ASP:HB3	1:J:452:SER:OG	2.15	0.46
1:J:536:THR:HG22	1:J:573:ALA:HB3	1.97	0.46
1:J:571:ARG:HH22	1:N:427:GLU:CD	2.19	0.46
1:L:107:VAL:HG11	1:N:128:ASP:CB	2.45	0.46
5:O:649:MYR:H21	1:P:191:LYS:NZ	2.30	0.46
1:P:355:GLY:HA2	1:R:298:PHE:CE1	2.47	0.46
1:P:606:THR:HG22	1:R:173:ASP:HB2	1.94	0.46
1:R:525:ILE:HD11	1:R:604:VAL:HA	1.97	0.46
1:T:396:VAL:HG11	1:T:399:ALA:HB2	1.96	0.46
1:T:521:VAL:HG23	1:T:522:GLY:N	2.30	0.46
2:U:192:PHE:C	2:U:194:GLY:H	2.23	0.46
2:U:221:GLY:N	2:U:337:ARG:HG2	2.28	0.46
2:V:77:ASN:N	2:V:78:PRO:CD	2.78	0.46
2:V:302:GLU:O	2:V:302:GLU:HG2	2.14	0.46
3:W:381:PHE:CD2	3:W:382:PRO:HD2	2.51	0.46
3:W:969:ASP:OD2	3:W:972:PRO:HG2	2.15	0.46
3:W:1145:ASP:O	3:W:1196:LEU:HD23	2.16	0.46
3:W:1239:ALA:CB	3:W:1250:LEU:HD11	2.45	0.46
3:W:1240:SER:HB2	3:W:1279:SER:HA	1.97	0.46
4:X:472:LEU:HD11	4:X:764:THR:HG21	1.96	0.46
4:X:481:ARG:O	4:X:484:THR:HG22	2.15	0.46
4:X:497:ILE:HD13	4:X:514:ILE:HD11	1.96	0.46
4:Y:430:SER:HB3	4:Y:1208:MET:HG3	1.97	0.46
4:Y:453:LEU:O	4:Y:457:MET:HB2	2.16	0.46
4:Y:835:HIS:CE1	4:Y:1212:SER:HA	2.51	0.46
1:B:58:ILE:CG1	1:B:127:LEU:HD23	2.45	0.46
1:B:305:LYS:HG3	1:B:477:LYS:O	2.14	0.46
1:D:340:ASP:O	1:D:344:MET:HG3	2.16	0.46
1:F:561:ASP:O	1:F:562:TYR:CB	2.62	0.46
1:H:525:ILE:HD11	1:H:604:VAL:HA	1.98	0.46
1:H:600:LEU:HG	1:H:601:THR:N	2.31	0.46
1:K:36:LEU:HD22	1:K:41:LEU:HD11	1.98	0.46
1:L:431:ILE:O	1:L:431:ILE:HG23	2.10	0.46
1:L:536:THR:HG22	1:L:573:ALA:HB3	1.98	0.46
1:L:633:ALA:O	1:L:636:ALA:HB3	2.14	0.46
1:M:24:SER:HB2	1:N:175:SER:C	2.41	0.46
1:N:92:TRP:CD2	1:N:156:VAL:HG23	2.51	0.46
1:N:169:MET:HG2	1:N:169:MET:O	2.15	0.46
1:N:369:SER:HB2	1:N:444:LEU:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:431:ILE:O	1:N:431:ILE:HG23	2.10	0.46
1:N:564:LEU:HD23	1:N:564:LEU:C	2.40	0.46
1:P:369:SER:HB2	1:P:445:ILE:HA	1.97	0.46
1:P:560:PRO:HB2	1:P:562:TYR:CE2	2.50	0.46
1:P:561:ASP:O	1:P:562:TYR:CB	2.62	0.46
1:P:564:LEU:HD23	1:P:564:LEU:C	2.40	0.46
1:Q:26:MET:CG	1:R:216:PRO:HG3	2.29	0.46
1:R:69:GLY:HA3	1:R:139:THR:HB	1.97	0.46
1:R:274:ILE:HD12	1:R:514:LEU:HD23	1.94	0.46
1:R:369:SER:HB2	1:R:444:LEU:O	2.16	0.46
1:R:396:VAL:HG11	1:R:399:ALA:HB2	1.96	0.46
1:S:24:SER:HB2	1:T:175:SER:C	2.41	0.46
1:T:92:TRP:CD2	1:T:156:VAL:HG23	2.51	0.46
1:T:369:SER:HB2	1:T:444:LEU:O	2.16	0.46
1:T:561:ASP:O	1:T:562:TYR:CB	2.62	0.46
2:U:341:TRP:O	2:U:346:LEU:HB2	2.14	0.46
3:W:247:VAL:CG2	3:W:257:GLN:HE21	2.28	0.46
3:W:736:VAL:CG2	3:W:780:LEU:HD21	2.41	0.46
3:W:793:THR:HB	3:W:794:PRO:HD2	1.98	0.46
4:X:278:LEU:HD23	4:X:292:ALA:HB2	1.96	0.46
4:X:377:ILE:HG13	4:X:438:PRO:HG3	1.97	0.46
4:X:593:LEU:CD2	4:X:597:GLU:HB2	2.46	0.46
4:X:983:TYR:HD1	4:X:1137:PHE:CZ	2.34	0.46
4:Y:63:VAL:HG12	4:Y:64:GLY:N	2.30	0.46
4:Y:763:VAL:O	4:Y:763:VAL:HG13	2.15	0.46
4:Y:976:ASN:O	4:Y:1083:TYR:CD2	2.69	0.46
1:B:600:LEU:HG	1:B:601:THR:N	2.30	0.46
1:D:238:VAL:CA	1:F:142:ILE:CD1	2.81	0.46
1:D:609:ARG:HD2	1:E:29:THR:HG22	1.91	0.46
1:F:305:LYS:HG3	1:F:477:LYS:O	2.14	0.46
1:F:345:ILE:HG23	1:F:475:THR:HG1	1.81	0.46
1:F:354:SER:HB3	1:F:419:MET:HG2	1.97	0.46
1:F:369:SER:HB2	1:F:444:LEU:O	2.16	0.46
1:H:69:GLY:HA3	1:H:139:THR:HB	1.97	0.46
1:H:431:ILE:HD11	1:H:437:ILE:CG2	2.45	0.46
1:I:24:SER:HB2	1:J:175:SER:C	2.41	0.46
1:J:67:ARG:HH11	1:J:67:ARG:CG	2.29	0.46
1:L:345:ILE:HG23	1:L:475:THR:OG1	2.16	0.46
1:P:369:SER:HB2	1:P:444:LEU:O	2.16	0.46
5:Q:649:MYR:H22	1:R:191:LYS:HZ1	1.72	0.46
1:R:107:VAL:HG11	1:T:128:ASP:CB	2.45	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:154:ARG:HB3	1:R:154:ARG:CZ	2.44	0.46
1:R:164:ASP:C	1:R:166:ALA:N	2.71	0.46
1:R:427:GLU:CD	1:T:571:ARG:HH22	2.19	0.46
1:T:275:GLU:O	1:T:275:GLU:HG2	2.15	0.46
2:V:305:LEU:HB3	2:V:306:PRO:HD2	1.98	0.46
3:W:5:PHE:CZ	3:W:306:ARG:HG2	2.50	0.46
3:W:261:LEU:HA	3:W:264:GLU:HG2	1.97	0.46
3:W:1166:CYS:HB3	3:W:1175:ARG:HA	1.98	0.46
4:X:823:LEU:HG	4:X:823:LEU:O	2.16	0.46
4:X:864:PHE:CD1	4:X:952:PRO:HG3	2.50	0.46
4:X:895:SER:HA	4:X:930:ARG:HD2	1.98	0.46
4:X:1094:LEU:CD2	4:X:1132:ARG:HB3	2.45	0.46
4:Y:262:ARG:HG3	4:Y:262:ARG:NH1	2.31	0.46
4:Y:428:LEU:HG	4:Y:1208:MET:HG2	1.97	0.46
4:Y:664:GLY:O	4:Y:665:SER:C	2.58	0.46
4:Y:668:LEU:HD12	4:Y:767:PHE:HE1	1.79	0.46
4:Y:868:ARG:HD3	4:Y:932:ALA:O	2.16	0.46
1:B:365:ASP:HB3	1:B:452:SER:OG	2.15	0.46
1:B:369:SER:HB2	1:B:444:LEU:O	2.16	0.46
1:D:154:ARG:HB3	1:D:154:ARG:CZ	2.44	0.46
1:D:275:GLU:O	1:D:275:GLU:HG2	2.15	0.46
1:D:382:ILE:HB	1:D:438:TYR:CZ	2.50	0.46
1:D:443:PHE:HE1	1:D:459:LEU:HD21	1.75	0.46
1:D:559:PRO:O	1:D:560:PRO:C	2.58	0.46
1:F:227:LEU:O	1:F:228:PRO:O	2.33	0.46
1:F:345:ILE:HG23	1:F:475:THR:OG1	2.16	0.46
1:F:469:VAL:HG21	1:H:575:MET:HE3	0.69	0.46
1:G:13:ILE:HG13	1:H:208:TYR:CG	2.50	0.46
1:J:69:GLY:HA3	1:J:139:THR:HB	1.97	0.46
1:J:107:VAL:HG11	1:L:128:ASP:CB	2.45	0.46
1:J:369:SER:HB2	1:J:444:LEU:O	2.16	0.46
1:L:58:ILE:CG1	1:L:127:LEU:HD23	2.46	0.46
1:L:274:ILE:HD12	1:L:514:LEU:HD23	1.94	0.46
1:L:521:VAL:HG23	1:L:522:GLY:N	2.30	0.46
1:N:147:ARG:HH12	1:R:100:LYS:NZ	2.14	0.46
1:N:275:GLU:HG2	1:N:275:GLU:O	2.15	0.46
1:N:411:VAL:O	1:N:412:ARG:CB	2.57	0.46
1:N:536:THR:HG22	1:N:573:ALA:HB3	1.97	0.46
1:O:24:SER:HB2	1:P:175:SER:C	2.41	0.46
1:P:227:LEU:O	1:P:228:PRO:O	2.33	0.46
1:P:345:ILE:HG23	1:P:475:THR:OG1	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:367:SER:O	1:P:368:THR:CB	2.64	0.46
1:Q:13:ILE:HG13	1:R:208:TYR:CG	2.50	0.46
1:R:540:VAL:CG2	1:R:566:TRP:HA	2.46	0.46
2:U:140:GLN:HE21	2:U:144:ILE:CG1	2.28	0.46
2:U:180:VAL:CG1	2:U:184:HIS:HB2	2.45	0.46
2:V:195:GLN:NE2	4:Y:377:ILE:CB	2.73	0.46
2:V:348:THR:HG22	2:V:349:ALA:N	2.30	0.46
3:W:259:ALA:HB1	3:W:303:LEU:HD12	1.95	0.46
3:W:853:THR:HA	3:W:873:ALA:O	2.16	0.46
3:W:857:SER:HB3	3:W:878:ASP:OD1	2.15	0.46
3:W:1290:PRO:HD2	3:W:1294:TYR:OH	2.16	0.46
4:X:377:ILE:CD1	4:X:436:LEU:HD11	2.45	0.46
4:X:413:PRO:C	4:X:415:GLN:N	2.74	0.46
4:X:658:TYR:CD2	4:X:675:MET:HG3	2.50	0.46
4:X:732:VAL:O	4:X:732:VAL:HG12	2.16	0.46
4:Y:941:TYR:C	4:Y:943:GLY:N	2.74	0.46
4:Y:1153:SER:C	4:Y:1155:ASP:H	2.24	0.46
1:D:178:SER:O	1:D:179:ALA:CB	2.64	0.46
1:D:564:LEU:CD2	1:D:568:ARG:NH2	2.75	0.46
1:F:96:PHE:CD1	1:F:101:THR:HG23	2.44	0.46
1:F:107:VAL:HG11	1:H:128:ASP:CB	2.45	0.46
1:F:275:GLU:HG2	1:F:275:GLU:O	2.15	0.46
1:F:382:ILE:HB	1:F:438:TYR:CZ	2.50	0.46
1:H:540:VAL:CG2	1:H:566:TRP:HA	2.46	0.46
1:J:178:SER:O	1:J:179:ALA:CB	2.64	0.46
1:K:24:SER:HB2	1:L:175:SER:C	2.41	0.46
1:L:365:ASP:HB3	1:L:452:SER:OG	2.15	0.46
1:L:561:ASP:O	1:L:562:TYR:CB	2.62	0.46
1:N:346:ASP:CB	1:N:427:GLU:HA	2.46	0.46
1:N:559:PRO:O	1:N:560:PRO:C	2.58	0.46
1:P:57:THR:HB	1:P:59:ASP:OD1	2.15	0.46
1:P:298:PHE:CE1	1:T:355:GLY:HA2	2.47	0.46
1:P:340:ASP:O	1:P:344:MET:HG3	2.16	0.46
1:P:536:THR:HG22	1:P:573:ALA:HB3	1.97	0.46
1:R:169:MET:HG2	1:R:169:MET:O	2.15	0.46
1:R:365:ASP:HB3	1:R:452:SER:OG	2.15	0.46
1:R:559:PRO:O	1:R:560:PRO:C	2.58	0.46
1:R:600:LEU:HG	1:R:601:THR:N	2.30	0.46
1:T:561:ASP:O	1:T:563:PRO:HD3	2.16	0.46
2:U:6:PHE:CD1	2:U:122:SER:HB3	2.51	0.46
2:U:136:TRP:O	2:U:139:ASN:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:268:ARG:O	2:U:327:ASP:HA	2.15	0.46
2:U:300:ILE:O	2:U:300:ILE:HG13	2.15	0.46
3:W:860:CYS:SG	3:W:864:MET:SD	3.14	0.46
3:W:973:LEU:O	3:W:973:LEU:HD13	2.16	0.46
3:W:1144:LEU:HA	3:W:1151:ASN:OD1	2.16	0.46
3:W:1155:ILE:HD12	3:W:1163:LEU:HD12	1.97	0.46
3:W:1241:LEU:HG	3:W:1242:PRO:HD2	1.98	0.46
4:X:356:ASN:C	4:X:358:GLN:N	2.73	0.46
4:X:555:GLN:OE1	4:X:555:GLN:HA	2.15	0.46
4:X:559:HIS:CG	4:X:561:PRO:HD2	2.51	0.46
4:X:656:PHE:CE1	4:X:752:PRO:HB3	2.51	0.46
4:X:889:ARG:CG	4:X:890:GLN:H	2.24	0.46
4:X:894:THR:O	4:X:897:ALA:HB3	2.15	0.46
4:Y:48:GLN:HE21	4:Y:53:ILE:HB	1.79	0.46
4:Y:202:THR:HB	4:Y:392:ASP:OD1	2.15	0.46
4:Y:663:GLN:HA	4:Y:663:GLN:NE2	2.30	0.46
4:Y:691:PRO:O	4:Y:692:THR:HB	2.16	0.46
4:Y:1122:PRO:CA	4:Y:1159:GLY:HA3	2.38	0.46
1:A:28:SER:HB2	1:B:215:TYR:HA	1.96	0.46
1:A:36:LEU:HD22	1:A:41:LEU:HD11	1.98	0.46
1:B:67:ARG:HH11	1:B:67:ARG:CG	2.29	0.46
1:D:260:SER:HB3	1:E:33:ALA:HB1	1.96	0.46
1:D:341:MET:CE	1:D:341:MET:CA	2.88	0.46
1:D:369:SER:HB2	1:D:444:LEU:O	2.16	0.46
1:D:493:GLN:O	1:D:586:VAL:HG23	2.14	0.46
1:E:6:THR:HG23	1:E:7:SER:N	2.31	0.46
1:E:24:SER:HB2	1:F:175:SER:C	2.41	0.46
1:F:178:SER:O	1:F:179:ALA:CB	2.64	0.46
1:F:344:MET:HE2	1:F:502:LEU:CD1	2.37	0.46
1:F:536:THR:HG22	1:F:573:ALA:HB3	1.98	0.46
1:F:540:VAL:CG2	1:F:566:TRP:HA	2.46	0.46
1:H:345:ILE:HG23	1:H:475:THR:HG1	1.81	0.46
1:H:369:SER:HB2	1:H:444:LEU:O	2.16	0.46
1:L:178:SER:O	1:L:179:ALA:CB	2.64	0.46
1:L:275:GLU:O	1:L:275:GLU:HG2	2.15	0.46
1:L:561:ASP:O	1:L:563:PRO:HD3	2.16	0.46
1:L:582:LEU:HD23	1:L:582:LEU:HA	1.69	0.46
1:P:358:LEU:HB2	1:P:417:PHE:HD2	1.77	0.46
1:P:521:VAL:HG23	1:P:522:GLY:N	2.30	0.46
1:P:600:LEU:HG	1:P:601:THR:N	2.31	0.46
1:Q:6:THR:HG23	1:Q:7:SER:N	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:275:GLU:O	1:R:275:GLU:HG2	2.15	0.46
1:R:521:VAL:HG23	1:R:522:GLY:N	2.30	0.46
1:T:178:SER:O	1:T:179:ALA:CB	2.64	0.46
1:T:345:ILE:HG23	1:T:475:THR:OG1	2.16	0.46
1:T:431:ILE:HD11	1:T:437:ILE:CG2	2.45	0.46
1:T:433:GLY:O	1:T:435:PRO:HD3	2.14	0.46
2:U:14:TYR:O	2:U:15:GLY:C	2.59	0.46
2:U:62:ALA:HB2	2:U:281:VAL:HG21	1.97	0.46
2:U:178:THR:HG22	4:X:376:LEU:CG	2.42	0.46
2:U:180:VAL:HA	2:U:181:PRO:HD3	1.76	0.46
2:U:248:LEU:C	2:U:249:LYS:HG2	2.41	0.46
2:V:96:VAL:HA	2:V:135:MET:HE2	1.97	0.46
3:W:271:ARG:HB2	3:W:324:ILE:HB	1.97	0.46
3:W:622:PHE:O	3:W:624:THR:N	2.46	0.46
3:W:687:ALA:HB1	3:W:996:ASP:CA	2.35	0.46
3:W:739:VAL:HG12	3:W:742:SER:HB2	1.97	0.46
3:W:879:TYR:OH	3:W:898:THR:HG22	2.16	0.46
4:X:839:LYS:HB2	4:X:839:LYS:HZ2	1.79	0.46
4:X:1098:PRO:C	4:X:1100:LEU:H	2.21	0.46
4:Y:188:ALA:CB	4:Y:763:VAL:HG11	2.45	0.46
4:Y:247:THR:HG22	4:Y:308:ASN:ND2	2.31	0.46
4:Y:356:ASN:CB	4:Y:1151:ALA:HB1	2.45	0.46
4:Y:634:GLN:H	4:Y:634:GLN:NE2	2.14	0.46
4:Y:996:MET:CE	4:Y:996:MET:CA	2.84	0.46
1:B:178:SER:O	1:B:179:ALA:CB	2.64	0.46
1:B:345:ILE:HG23	1:B:475:THR:OG1	2.16	0.46
1:D:92:TRP:CD2	1:D:156:VAL:HG23	2.51	0.46
1:D:107:VAL:HG11	1:F:128:ASP:CB	2.45	0.46
1:D:354:SER:HB3	1:D:419:MET:HG2	1.97	0.46
1:D:367:SER:O	1:D:368:THR:CB	2.64	0.46
1:D:533:ASP:OD1	1:D:535:ALA:HB3	2.16	0.46
1:H:92:TRP:CD2	1:H:156:VAL:HG23	2.51	0.46
1:H:178:SER:O	1:H:179:ALA:CB	2.64	0.46
1:J:260:SER:HB3	1:K:33:ALA:HB1	1.96	0.46
1:J:525:ILE:HD11	1:J:604:VAL:HA	1.98	0.46
1:L:346:ASP:CB	1:L:427:GLU:HA	2.46	0.46
1:L:540:VAL:CG2	1:L:566:TRP:HA	2.46	0.46
1:L:600:LEU:HG	1:L:601:THR:N	2.30	0.46
1:N:345:ILE:HG23	1:N:475:THR:OG1	2.16	0.46
1:N:365:ASP:HB3	1:N:452:SER:OG	2.16	0.46
1:P:67:ARG:HH11	1:P:67:ARG:CG	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:92:TRP:CD2	1:P:156:VAL:HG23	2.50	0.46
1:P:154:ARG:HB3	1:P:154:ARG:CZ	2.44	0.46
1:P:346:ASP:CB	1:P:427:GLU:HA	2.46	0.46
1:P:411:VAL:O	1:P:411:VAL:CG1	2.61	0.46
1:P:564:LEU:CD2	1:P:568:ARG:NH2	2.75	0.46
1:R:345:ILE:HG23	1:R:475:THR:OG1	2.16	0.46
1:R:369:SER:HB2	1:R:445:ILE:HA	1.97	0.46
1:T:227:LEU:O	1:T:228:PRO:O	2.33	0.46
1:T:365:ASP:HB3	1:T:452:SER:OG	2.15	0.46
2:U:39:SER:HB2	4:X:954:PRO:CB	2.45	0.46
2:U:51:LEU:C	2:U:53:VAL:H	2.24	0.46
2:U:178:THR:HB	4:X:376:LEU:HD23	1.98	0.46
2:V:64:ARG:NH2	4:X:1027:LEU:CD2	2.79	0.46
2:V:224:ASN:HD22	2:V:224:ASN:N	2.12	0.46
3:W:1061:LEU:O	3:W:1072:GLY:HA2	2.16	0.46
3:W:1289:LEU:HD22	3:W:1289:LEU:N	2.31	0.46
4:X:243:ILE:CG1	4:X:1147:PHE:HB2	2.41	0.46
4:X:271:VAL:CG1	4:X:288:PHE:HB3	2.45	0.46
4:X:476:LEU:O	4:X:480:LEU:HD23	2.16	0.46
4:X:590:ALA:HB1	4:X:639:LEU:HD21	1.97	0.46
4:Y:197:ASP:CB	4:Y:253:GLY:HA3	2.46	0.46
4:Y:530:LYS:HD3	4:Y:811:LEU:HD21	1.98	0.46
4:Y:712:VAL:HG21	4:Y:729:MET:HB3	1.98	0.46
4:Y:978:ALA:HB3	4:Y:1081:TYR:CE1	2.51	0.46
1:A:24:SER:HB2	1:B:175:SER:C	2.41	0.46
1:B:69:GLY:HA3	1:B:139:THR:HB	1.97	0.46
1:B:275:GLU:O	1:B:275:GLU:HG2	2.15	0.46
1:B:340:ASP:O	1:B:344:MET:HG3	2.16	0.46
1:B:365:ASP:OD1	1:B:452:SER:HB2	2.15	0.46
1:B:367:SER:O	1:B:368:THR:CB	2.64	0.46
1:B:540:VAL:CG2	1:B:566:TRP:HA	2.46	0.46
1:D:215:TYR:C	1:D:217:ALA:N	2.70	0.46
1:D:269:LYS:HG2	1:D:516:LYS:HZ3	1.81	0.46
1:D:521:VAL:HG21	1:D:577:VAL:HG22	1.95	0.46
1:D:561:ASP:O	1:D:563:PRO:HD3	2.16	0.46
1:D:571:ARG:HH22	1:H:427:GLU:CD	2.19	0.46
1:F:533:ASP:OD1	1:F:535:ALA:HB3	2.16	0.46
1:H:547:HIS:CE1	1:H:560:PRO:HA	2.52	0.46
1:I:33:ALA:HB1	1:N:260:SER:HB3	1.96	0.46
1:J:46:LYS:NZ	1:N:237:GLU:OE1	2.38	0.46
1:J:561:ASP:O	1:J:563:PRO:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:58:ILE:O	1:L:58:ILE:CG2	2.62	0.46
1:L:203:TYR:HB3	1:L:206:GLU:CB	2.39	0.46
1:L:367:SER:O	1:L:368:THR:CB	2.64	0.46
1:L:385:VAL:HA	1:L:390:ASN:OD1	2.16	0.46
1:L:431:ILE:HD11	1:L:437:ILE:CG2	2.45	0.46
1:N:525:ILE:HD11	1:N:604:VAL:HA	1.97	0.46
1:P:137:ILE:HD13	1:P:142:ILE:HG12	1.97	0.46
1:P:178:SER:O	1:P:179:ALA:CB	2.64	0.46
1:P:354:SER:HB3	1:P:419:MET:HG2	1.97	0.46
1:P:547:HIS:CE1	1:P:560:PRO:HA	2.51	0.46
1:R:67:ARG:HH11	1:R:67:ARG:CG	2.29	0.46
1:R:341:MET:HG3	1:R:431:ILE:HD11	1.98	0.46
1:R:547:HIS:CE1	1:R:560:PRO:HA	2.51	0.46
1:R:549:LEU:C	1:R:549:LEU:CD1	2.87	0.46
1:T:346:ASP:CB	1:T:427:GLU:HA	2.46	0.46
1:T:525:ILE:HD11	1:T:604:VAL:HA	1.97	0.46
1:T:540:VAL:CG2	1:T:566:TRP:HA	2.46	0.46
2:U:132:LEU:O	2:U:133:SER:C	2.59	0.46
2:U:285:LEU:O	2:U:285:LEU:HD13	2.16	0.46
3:W:23:LEU:HD23	3:W:24:PRO:N	2.31	0.46
3:W:399:ARG:HA	3:W:745:MET:HA	1.98	0.46
3:W:463:ASP:OD1	3:W:464:TYR:N	2.49	0.46
3:W:574:THR:HB	3:W:611:THR:HA	1.97	0.46
3:W:1054:SER:HB2	3:W:1112:LEU:CD2	2.46	0.46
3:W:1139:PRO:HA	3:W:1140:PRO:HD3	1.82	0.46
3:W:1228:ARG:O	3:W:1229:ILE:C	2.59	0.46
4:X:406:LEU:HD12	4:X:409:MET:HE3	1.98	0.46
4:Y:559:HIS:HD2	4:Y:562:SER:HB2	1.81	0.46
4:Y:780:ILE:HG12	4:Y:938:TYR:CD2	2.51	0.46
1:B:346:ASP:CB	1:B:427:GLU:HA	2.46	0.45
1:B:385:VAL:HA	1:B:390:ASN:OD1	2.16	0.45
1:B:561:ASP:O	1:B:563:PRO:HD3	2.16	0.45
1:C:24:SER:HB2	1:D:175:SER:C	2.41	0.45
1:D:346:ASP:CB	1:D:427:GLU:HA	2.46	0.45
1:D:418:ASN:CG	1:F:337:ARG:NH2	2.74	0.45
1:F:58:ILE:CG1	1:F:127:LEU:HD23	2.46	0.45
1:F:69:GLY:HA3	1:F:139:THR:HB	1.97	0.45
1:F:169:MET:HG2	1:F:169:MET:O	2.15	0.45
1:F:346:ASP:CB	1:F:427:GLU:HA	2.46	0.45
1:F:369:SER:HB2	1:F:445:ILE:HA	1.97	0.45
1:F:521:VAL:HG21	1:F:577:VAL:HG22	1.95	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:169:MET:HG2	1:J:169:MET:O	2.15	0.45
1:J:354:SER:HB3	1:J:419:MET:HG2	1.97	0.45
1:J:367:SER:O	1:J:368:THR:CB	2.64	0.45
1:J:547:HIS:CE1	1:J:560:PRO:HA	2.51	0.45
1:J:609:ARG:HD2	1:K:29:THR:HG22	1.91	0.45
1:L:599:ALA:O	1:L:600:LEU:C	2.60	0.45
1:N:533:ASP:OD1	1:N:535:ALA:HB3	2.16	0.45
1:N:561:ASP:O	1:N:563:PRO:HD3	2.16	0.45
1:P:169:MET:HG2	1:P:169:MET:O	2.15	0.45
1:R:53:THR:HG22	1:R:54:SER:N	2.31	0.45
2:U:41:PHE:HZ	2:U:186:ALA:HB3	1.81	0.45
2:U:89:GLY:CA	2:U:103:VAL:HG23	2.46	0.45
2:V:192:PHE:CB	4:Y:376:LEU:HD23	2.41	0.45
3:W:27:PHE:CZ	3:W:99:LEU:HD21	2.51	0.45
3:W:440:THR:HG22	3:W:647:PRO:HB3	1.97	0.45
3:W:448:ASP:O	3:W:671:THR:HG21	2.16	0.45
3:W:452:TYR:HD2	3:W:672:THR:HG23	1.81	0.45
3:W:934:ASN:HB3	3:W:1023:THR:HG22	1.98	0.45
3:W:958:PHE:O	3:W:959:ASN:HB2	2.16	0.45
4:X:388:MET:HA	4:X:1193:SER:HA	1.98	0.45
4:X:560:LEU:N	4:X:561:PRO:HD3	2.31	0.45
4:X:578:ASP:C	4:X:580:HIS:H	2.24	0.45
4:X:1131:ARG:O	4:Y:106:MET:HG3	2.16	0.45
4:Y:773:ARG:HG3	4:Y:773:ARG:O	2.16	0.45
4:Y:787:ARG:O	4:Y:788:VAL:HB	2.15	0.45
4:Y:1084:THR:CG2	4:Y:1114:PRO:HB2	2.46	0.45
4:Y:1169:TRP:HE3	4:Y:1191:TYR:HB2	1.80	0.45
1:B:137:ILE:HD13	1:B:142:ILE:HG12	1.97	0.45
1:D:547:HIS:CE1	1:D:560:PRO:HA	2.51	0.45
1:F:341:MET:CE	1:F:341:MET:CA	2.88	0.45
1:H:53:THR:HG22	1:H:54:SER:N	2.32	0.45
1:H:227:LEU:O	1:H:228:PRO:O	2.33	0.45
1:H:536:THR:HG22	1:H:573:ALA:HB3	1.97	0.45
1:J:58:ILE:HG23	1:J:124:GLY:CA	2.32	0.45
1:J:92:TRP:CD2	1:J:156:VAL:HG23	2.51	0.45
1:J:275:GLU:O	1:J:275:GLU:HG2	2.15	0.45
1:J:346:ASP:CB	1:J:427:GLU:HA	2.46	0.45
1:J:416:ARG:HG3	1:L:298:PHE:HZ	1.81	0.45
1:J:600:LEU:HG	1:J:601:THR:N	2.31	0.45
1:K:6:THR:HG23	1:K:7:SER:N	2.31	0.45
5:K:649:MYR:C4	1:L:187:LEU:HD22	2.45	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:255:SER:HA	1:L:258:THR:HG22	1.99	0.45
1:L:354:SER:HB3	1:L:419:MET:HG2	1.97	0.45
1:L:525:ILE:HD11	1:L:604:VAL:HA	1.97	0.45
1:N:67:ARG:HH11	1:N:67:ARG:CG	2.29	0.45
1:N:340:ASP:O	1:N:344:MET:HG3	2.16	0.45
1:P:275:GLU:O	1:P:275:GLU:HG2	2.15	0.45
1:R:521:VAL:HG21	1:R:577:VAL:HG22	1.95	0.45
1:R:599:ALA:O	1:R:600:LEU:C	2.60	0.45
1:T:44:THR:O	1:T:119:VAL:HG22	2.17	0.45
1:T:330:GLN:O	1:T:331:LEU:HB2	2.16	0.45
1:T:533:ASP:OD1	1:T:535:ALA:HB3	2.16	0.45
2:U:241:LEU:C	4:X:1179:VAL:HG11	2.41	0.45
3:W:133:ILE:HG13	3:W:134:PHE:N	2.31	0.45
3:W:751:SER:C	3:W:753:GLY:N	2.73	0.45
3:W:766:LEU:HD12	3:W:1004:VAL:CG2	2.46	0.45
3:W:967:TYR:HD1	3:W:968:ALA:O	1.99	0.45
3:W:997:TRP:C	3:W:997:TRP:CD1	2.94	0.45
4:X:362:THR:CG2	4:X:1173:VAL:HB	2.46	0.45
4:X:456:VAL:HG23	4:X:668:LEU:HD11	1.97	0.45
4:X:594:ALA:CA	4:X:608:GLN:NE2	2.70	0.45
4:X:694:ASP:O	4:X:695:SER:CB	2.64	0.45
4:X:1068:LYS:C	4:X:1070:GLY:N	2.73	0.45
4:Y:284:ASP:C	4:Y:286:ALA:N	2.74	0.45
4:Y:331:ARG:CD	4:Y:387:CYS:SG	3.01	0.45
4:Y:574:PRO:HB2	4:Y:679:TRP:CH2	2.52	0.45
1:B:354:SER:HB3	1:B:419:MET:HG2	1.97	0.45
1:B:390:ASN:HD22	1:B:390:ASN:HA	1.60	0.45
1:D:175:SER:CB	1:D:627:ARG:HD3	2.47	0.45
1:D:227:LEU:O	1:D:228:PRO:O	2.33	0.45
1:D:345:ILE:HG23	1:D:475:THR:OG1	2.16	0.45
1:F:468:PRO:O	1:H:578:SER:OG	2.21	0.45
1:F:564:LEU:HD23	1:F:564:LEU:C	2.40	0.45
1:G:6:THR:HG23	1:G:7:SER:N	2.30	0.45
1:G:24:SER:HB2	1:H:175:SER:C	2.41	0.45
1:H:44:THR:O	1:H:119:VAL:HG22	2.17	0.45
1:H:354:SER:HB3	1:H:419:MET:HG2	1.97	0.45
1:J:44:THR:O	1:J:119:VAL:HG22	2.17	0.45
1:J:255:SER:HA	1:J:258:THR:HG22	1.98	0.45
1:J:345:ILE:HG23	1:J:475:THR:OG1	2.16	0.45
1:J:469:VAL:HG21	1:L:575:MET:HE3	0.69	0.45
1:J:533:ASP:OD1	1:J:535:ALA:HB3	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:540:VAL:CG2	1:J:566:TRP:HA	2.46	0.45
1:J:562:TYR:HA	1:J:565:LEU:HB2	1.99	0.45
1:L:418:ASN:HD22	1:L:418:ASN:HA	1.51	0.45
1:N:69:GLY:HA3	1:N:139:THR:HB	1.97	0.45
1:N:255:SER:HA	1:N:258:THR:HG22	1.98	0.45
1:P:559:PRO:O	1:P:560:PRO:C	2.58	0.45
1:P:599:ALA:O	1:P:600:LEU:C	2.60	0.45
1:R:58:ILE:CG1	1:R:127:LEU:HD23	2.45	0.45
1:R:340:ASP:O	1:R:344:MET:HG3	2.16	0.45
1:R:418:ASN:HD22	1:R:418:ASN:HA	1.50	0.45
1:T:431:ILE:O	1:T:431:ILE:HG23	2.10	0.45
1:T:562:TYR:HA	1:T:565:LEU:HB2	1.99	0.45
2:U:52:PRO:HG2	2:U:64:ARG:NH2	2.31	0.45
3:W:152:THR:HG23	3:W:153:LYS:N	2.32	0.45
3:W:300:PHE:HE1	3:W:309:ASN:HD22	1.64	0.45
3:W:489:LYS:O	3:W:492:ALA:HB3	2.17	0.45
3:W:885:TRP:HA	3:W:888:ILE:CD1	2.46	0.45
4:X:283:ILE:HD11	4:X:288:PHE:N	2.31	0.45
4:X:308:ASN:ND2	4:X:395:THR:HG23	2.30	0.45
4:X:325:THR:HG22	4:X:347:ARG:HG2	1.99	0.45
4:X:337:PRO:HG2	4:X:338:GLU:H	1.82	0.45
4:X:389:GLU:O	4:X:390:LEU:C	2.59	0.45
4:X:651:PRO:CG	4:X:679:TRP:CZ3	2.99	0.45
4:X:736:MET:C	4:X:738:GLN:H	2.24	0.45
4:X:839:LYS:HB2	4:X:839:LYS:NZ	2.31	0.45
4:X:1013:VAL:CG1	4:X:1014:VAL:H	2.29	0.45
4:X:1122:PRO:HA	4:X:1159:GLY:CA	2.42	0.45
4:X:1130:ALA:CB	4:Y:104:GLN:HA	2.47	0.45
4:X:1140:GLU:HA	4:X:1140:GLU:OE2	2.16	0.45
4:X:1154:ILE:O	4:X:1155:ASP:HB2	2.16	0.45
4:X:1208:MET:HE2	4:X:1208:MET:HB3	1.87	0.45
4:Y:106:MET:HE3	4:Y:108:VAL:CG2	2.45	0.45
4:Y:283:ILE:HD11	4:Y:288:PHE:C	2.41	0.45
4:Y:312:ASN:O	4:Y:313:LYS:C	2.60	0.45
4:Y:450:ASP:C	4:Y:450:ASP:OD1	2.58	0.45
4:Y:486:LEU:HD21	4:Y:825:GLY:HA3	1.99	0.45
4:Y:751:CYS:N	4:Y:752:PRO:CD	2.80	0.45
1:A:6:THR:HG23	1:A:7:SER:N	2.31	0.45
1:B:357:ILE:CG2	1:B:358:LEU:N	2.80	0.45
1:D:357:ILE:CG2	1:D:358:LEU:N	2.80	0.45
1:D:525:ILE:HD11	1:D:604:VAL:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:536:THR:HG22	1:D:573:ALA:HB3	1.97	0.45
1:F:193:ILE:H	1:F:193:ILE:HG12	1.55	0.45
1:F:340:ASP:O	1:F:344:MET:HG3	2.16	0.45
1:F:547:HIS:CE1	1:F:560:PRO:HA	2.51	0.45
1:H:345:ILE:HG23	1:H:475:THR:OG1	2.16	0.45
1:H:346:ASP:CB	1:H:427:GLU:HA	2.46	0.45
1:H:357:ILE:CG2	1:H:358:LEU:N	2.80	0.45
1:H:385:VAL:HA	1:H:390:ASN:OD1	2.16	0.45
1:H:533:ASP:OD1	1:H:535:ALA:HB3	2.16	0.45
1:J:49:ARG:HB2	1:J:64:VAL:CG2	2.43	0.45
1:J:170:LEU:O	1:J:171:THR:C	2.60	0.45
1:L:69:GLY:HA3	1:L:139:THR:HB	1.97	0.45
1:L:178:SER:HB3	1:L:179:ALA:H	1.65	0.45
1:L:369:SER:HB2	1:L:445:ILE:HA	1.97	0.45
1:M:26:MET:O	1:M:26:MET:CG	2.60	0.45
1:N:367:SER:O	1:N:368:THR:CB	2.64	0.45
1:N:540:VAL:CG2	1:N:566:TRP:HA	2.46	0.45
1:O:36:LEU:HD22	1:O:41:LEU:HD11	1.98	0.45
1:P:69:GLY:HA3	1:P:139:THR:HB	1.97	0.45
1:R:92:TRP:CD2	1:R:156:VAL:HG23	2.51	0.45
1:R:533:ASP:OD1	1:R:535:ALA:HB3	2.16	0.45
1:T:471:LEU:HD23	1:T:471:LEU:N	2.32	0.45
2:U:225:ARG:HE	2:U:346:LEU:CD2	2.30	0.45
2:U:335:ALA:HA	2:U:356:ASN:OD1	2.16	0.45
3:W:282:VAL:CG1	3:W:283:THR:N	2.79	0.45
3:W:306:ARG:HD3	3:W:341:MET:HE2	1.99	0.45
3:W:341:MET:HA	3:W:341:MET:CE	2.42	0.45
3:W:415:ASP:O	3:W:419:GLU:HG3	2.16	0.45
3:W:438:VAL:HB	3:W:649:ILE:CD1	2.43	0.45
3:W:1087:LEU:HB2	3:W:1098:LEU:HD13	1.97	0.45
3:W:1261:THR:HG23	3:W:1262:THR:N	2.32	0.45
4:X:264:PRO:HB2	4:X:268:ASP:OD2	2.17	0.45
4:X:415:GLN:C	4:X:417:VAL:H	2.25	0.45
4:X:446:ALA:HB2	4:X:854:ASN:O	2.16	0.45
4:X:483:VAL:O	4:X:483:VAL:CG2	2.63	0.45
4:X:614:GLN:OE1	4:X:614:GLN:HA	2.15	0.45
4:X:780:ILE:HD13	4:X:940:GLN:HG3	1.98	0.45
4:X:914:ASP:C	4:X:915:LEU:HD23	2.42	0.45
4:X:1087:TYR:HB3	4:X:1121:ILE:CG1	2.45	0.45
4:Y:287:GLN:HB3	4:Y:1113:PRO:CA	2.47	0.45
4:Y:575:MET:HG2	4:Y:818:ILE:HG23	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:1023:ARG:HD2	4:Y:1027:LEU:CD2	2.46	0.45
4:Y:1074:VAL:HG12	4:Y:1075:LEU:N	2.30	0.45
4:Y:1119:ILE:HG23	4:Y:1120:PRO:HD2	1.97	0.45
1:D:333:PRO:HG3	1:D:454:PHE:C	2.42	0.45
1:D:562:TYR:HA	1:D:565:LEU:HB2	1.99	0.45
1:F:139:THR:CA	1:F:142:ILE:CG2	2.90	0.45
1:F:175:SER:CB	1:F:627:ARG:HD3	2.47	0.45
1:F:333:PRO:HG3	1:F:454:PHE:C	2.42	0.45
1:H:255:SER:HA	1:H:258:THR:HG22	1.98	0.45
1:I:6:THR:HG23	1:I:7:SER:N	2.31	0.45
1:I:29:THR:HG21	1:N:609:ARG:CD	2.47	0.45
1:J:235:LEU:HA	1:J:235:LEU:HD13	1.80	0.45
1:J:298:PHE:HZ	1:N:416:ARG:HG3	1.81	0.45
1:J:471:LEU:HD23	1:J:471:LEU:N	2.32	0.45
1:L:175:SER:CB	1:L:627:ARG:HD3	2.47	0.45
1:P:44:THR:O	1:P:119:VAL:HG22	2.17	0.45
1:P:61:LEU:HD21	1:P:118:TYR:CD2	2.51	0.45
1:P:357:ILE:CG2	1:P:358:LEU:N	2.80	0.45
1:P:540:VAL:CG2	1:P:566:TRP:HA	2.46	0.45
1:R:371:PRO:HG3	1:R:407:LEU:HD23	1.99	0.45
1:T:371:PRO:HG3	1:T:407:LEU:HD23	1.99	0.45
1:T:599:ALA:O	1:T:600:LEU:C	2.60	0.45
2:U:121:ASP:OD2	2:U:123:ASN:HB2	2.16	0.45
2:U:176:ALA:HB1	4:X:413:PRO:HD2	1.94	0.45
2:U:184:HIS:C	2:U:187:GLN:HB3	2.42	0.45
2:U:217:GLY:C	2:U:223:LEU:HB2	2.42	0.45
2:U:344:ASP:C	2:U:346:LEU:H	2.23	0.45
2:V:214:ILE:CD1	2:V:232:PHE:HB2	2.46	0.45
3:W:518:TYR:O	3:W:554:PHE:N	2.50	0.45
3:W:554:PHE:O	3:W:558:VAL:HB	2.16	0.45
3:W:606:ALA:C	3:W:608:GLN:H	2.23	0.45
3:W:818:PHE:CD1	3:W:818:PHE:C	2.93	0.45
3:W:843:LEU:CD2	3:W:854:MET:CE	2.94	0.45
4:X:557:ILE:CB	4:X:592:LEU:HD21	2.46	0.45
4:X:1085:LEU:HD22	4:X:1119:ILE:HD11	1.98	0.45
4:Y:358:GLN:HE21	4:Y:1154:ILE:HD13	1.81	0.45
4:Y:567:LEU:O	4:Y:567:LEU:HD22	2.17	0.45
4:Y:990:ASN:CB	4:Y:1131:ARG:HA	2.45	0.45
4:Y:1083:TYR:CD1	4:Y:1083:TYR:C	2.95	0.45
4:Y:1117:PHE:CZ	4:Y:1138:THR:HG23	2.52	0.45
4:Y:1123:GLN:HG2	4:Y:1127:CYS:SG	2.57	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:6:THR:HG23	1:C:7:SER:N	2.31	0.45
1:D:199:LEU:HB3	1:D:207:PHE:CE2	2.52	0.45
1:D:385:VAL:HA	1:D:390:ASN:OD1	2.16	0.45
1:F:53:THR:HG22	1:F:54:SER:N	2.32	0.45
1:F:203:TYR:HB3	1:F:206:GLU:CB	2.39	0.45
1:H:367:SER:O	1:H:368:THR:CB	2.64	0.45
1:J:175:SER:CB	1:J:627:ARG:HD3	2.47	0.45
1:J:341:MET:HG3	1:J:431:ILE:HD11	1.98	0.45
1:L:53:THR:HG22	1:L:54:SER:N	2.32	0.45
1:L:360:TYR:CD2	1:L:361:ASP:N	2.77	0.45
1:L:369:SER:HB2	1:L:444:LEU:O	2.16	0.45
1:L:533:ASP:OD1	1:L:535:ALA:HB3	2.16	0.45
1:N:175:SER:CB	1:N:627:ARG:HD3	2.47	0.45
1:N:178:SER:O	1:N:179:ALA:CB	2.64	0.45
1:N:385:VAL:HA	1:N:390:ASN:OD1	2.16	0.45
1:N:419:MET:HE2	1:N:419:MET:HB3	1.80	0.45
1:O:6:THR:HG23	1:O:7:SER:N	2.30	0.45
1:P:96:PHE:CD1	1:P:101:THR:HG23	2.44	0.45
1:P:442:THR:OG1	1:P:443:PHE:N	2.50	0.45
1:P:561:ASP:O	1:P:563:PRO:HD3	2.16	0.45
1:R:137:ILE:HD13	1:R:142:ILE:HG12	1.98	0.45
1:R:170:LEU:O	1:R:171:THR:C	2.60	0.45
1:R:175:SER:CB	1:R:627:ARG:HD3	2.47	0.45
1:R:257:SER:C	1:R:259:LEU:N	2.74	0.45
1:R:357:ILE:CG2	1:R:358:LEU:N	2.80	0.45
1:T:358:LEU:CD1	1:T:417:PHE:CE2	2.62	0.45
2:U:228:THR:HG22	2:U:233:TYR:HD2	1.82	0.45
3:W:63:PRO:CB	3:W:64:PRO:CD	2.92	0.45
3:W:625:ARG:CG	3:W:625:ARG:O	2.65	0.45
3:W:737:SER:HB2	3:W:777:VAL:HG13	1.98	0.45
3:W:998:LEU:O	3:W:1000:TYR:N	2.50	0.45
3:W:1225:ASP:C	3:W:1227:TYR:N	2.73	0.45
4:X:413:PRO:HA	4:X:416:ILE:HG12	1.99	0.45
4:X:562:SER:HB3	4:X:592:LEU:HD11	1.98	0.45
4:X:572:ALA:CB	4:X:818:ILE:HG21	2.47	0.45
4:X:610:THR:O	4:X:612:ALA:N	2.50	0.45
4:X:672:SER:O	4:X:673:ASN:HB2	2.16	0.45
4:X:910:LYS:O	4:X:914:ASP:HA	2.17	0.45
4:X:985:VAL:HG22	4:X:1137:PHE:CE2	2.52	0.45
4:X:1055:SER:O	4:X:1056:VAL:C	2.59	0.45
4:Y:595:GLN:H	4:Y:596:PRO:HD2	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:628:PRO:CG	4:Y:647:ARG:HG3	2.47	0.45
4:Y:1167:LEU:O	4:Y:1170:PRO:HD3	2.17	0.45
1:B:175:SER:CB	1:B:627:ARG:HD3	2.47	0.45
1:B:431:ILE:HD11	1:B:437:ILE:CG2	2.45	0.45
1:B:599:ALA:O	1:B:600:LEU:C	2.60	0.45
1:C:33:ALA:HB1	1:H:260:SER:HB3	1.96	0.45
1:C:36:LEU:HD22	1:C:41:LEU:HD11	1.98	0.45
1:D:46:LYS:NZ	1:H:237:GLU:CB	2.68	0.45
1:D:255:SER:HA	1:D:258:THR:HG22	1.98	0.45
1:D:468:PRO:O	1:F:578:SER:OG	2.21	0.45
1:F:92:TRP:CD2	1:F:156:VAL:HG23	2.51	0.45
1:F:345:ILE:HD12	1:F:468:PRO:HB3	1.99	0.45
1:F:367:SER:O	1:F:368:THR:CB	2.64	0.45
1:F:471:LEU:HD23	1:F:471:LEU:N	2.32	0.45
1:F:561:ASP:O	1:F:563:PRO:HD3	2.16	0.45
1:G:23:THR:C	1:G:25:ASP:N	2.75	0.45
1:H:600:LEU:O	1:H:601:THR:C	2.60	0.45
1:H:644:LEU:N	1:H:644:LEU:HD23	2.32	0.45
1:I:36:LEU:HD22	1:I:41:LEU:HD11	1.98	0.45
1:J:371:PRO:HG3	1:J:407:LEU:HD23	1.99	0.45
1:J:385:VAL:HA	1:J:390:ASN:OD1	2.16	0.45
1:J:600:LEU:O	1:J:601:THR:C	2.60	0.45
1:L:257:SER:C	1:L:259:LEU:N	2.74	0.45
1:L:416:ARG:HG3	1:N:298:PHE:HZ	1.81	0.45
1:N:341:MET:HG3	1:N:431:ILE:HD11	1.98	0.45
1:N:345:ILE:HD12	1:N:468:PRO:HB3	1.99	0.45
1:P:107:VAL:HG11	1:R:128:ASP:CB	2.45	0.45
1:P:175:SER:CB	1:P:627:ARG:HD3	2.47	0.45
5:Q:649:MYR:C4	1:R:187:LEU:HD22	2.45	0.45
1:R:346:ASP:CB	1:R:427:GLU:HA	2.46	0.45
1:R:367:SER:O	1:R:368:THR:CB	2.64	0.45
1:R:536:THR:HG22	1:R:573:ALA:HB3	1.98	0.45
1:T:175:SER:CB	1:T:627:ARG:HD3	2.47	0.45
1:T:333:PRO:HG3	1:T:454:PHE:C	2.42	0.45
1:T:600:LEU:O	1:T:601:THR:C	2.60	0.45
1:T:644:LEU:N	1:T:644:LEU:HD23	2.32	0.45
2:U:56:ALA:HB2	4:X:1185:PRO:HG2	1.99	0.45
2:U:63:SER:C	2:U:66:ILE:HG22	2.42	0.45
3:W:39:LEU:N	3:W:89:HIS:HE1	2.12	0.45
3:W:67:ALA:O	3:W:174:GLY:HA2	2.16	0.45
3:W:246:ASP:HB2	3:W:255:ILE:C	2.42	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:382:PRO:HG2	3:W:383:PHE:CD1	2.52	0.45
3:W:654:GLU:HG3	3:W:654:GLU:O	2.17	0.45
3:W:981:LEU:CD1	3:W:1028:ILE:HG21	2.44	0.45
3:W:985:ALA:HA	3:W:1034:PRO:HB3	1.98	0.45
3:W:1249:HIS:HA	3:W:1259:SER:HA	1.98	0.45
4:Y:73:ASN:HB3	4:Y:79:ILE:HB	1.99	0.45
4:Y:200:LEU:HD21	4:Y:343:ALA:CB	2.47	0.45
4:Y:207:LEU:HD22	4:Y:244:VAL:CB	2.47	0.45
4:Y:602:GLY:HA3	4:Y:623:PRO:CG	2.47	0.45
4:Y:661:THR:OG1	4:Y:662:LEU:HD12	2.15	0.45
4:Y:769:VAL:HB	4:Y:780:ILE:HD13	1.98	0.45
4:Y:1081:TYR:OH	4:Y:1138:THR:HG22	2.17	0.45
1:B:533:ASP:OD1	1:B:535:ALA:HB3	2.16	0.45
1:D:343:ALA:CB	1:D:478:GLY:O	2.62	0.45
1:D:600:LEU:O	1:D:601:THR:C	2.60	0.45
1:E:36:LEU:HD22	1:E:41:LEU:HD11	1.98	0.45
1:F:199:LEU:HB3	1:F:207:PHE:CE2	2.52	0.45
1:F:252:LEU:HB3	1:F:613:LEU:CD2	2.47	0.45
1:F:443:PHE:HE1	1:F:459:LEU:HD21	1.74	0.45
1:H:175:SER:CB	1:H:627:ARG:HD3	2.47	0.45
1:H:333:PRO:HG3	1:H:454:PHE:C	2.42	0.45
1:H:346:ASP:HB3	1:H:427:GLU:HA	1.99	0.45
1:I:26:MET:CG	1:J:216:PRO:HG3	2.29	0.45
1:J:199:LEU:HB3	1:J:207:PHE:CE2	2.52	0.45
1:J:262:ALA:CB	1:J:608:LEU:HD13	2.47	0.45
1:J:322:TYR:O	1:J:323:SER:HB3	2.17	0.45
1:L:44:THR:O	1:L:119:VAL:HG22	2.17	0.45
1:L:139:THR:CA	1:L:142:ILE:HG23	2.45	0.45
1:L:169:MET:HG2	1:L:169:MET:O	2.15	0.45
1:L:199:LEU:HB3	1:L:207:PHE:CE2	2.52	0.45
1:L:330:GLN:O	1:L:331:LEU:HB2	2.16	0.45
1:L:341:MET:CE	1:L:341:MET:CA	2.88	0.45
1:N:95:LEU:HD12	1:N:95:LEU:HA	1.71	0.45
1:N:170:LEU:O	1:N:171:THR:C	2.60	0.45
1:N:257:SER:C	1:N:259:LEU:N	2.74	0.45
1:N:428:ARG:NH1	1:N:428:ARG:CG	2.76	0.45
1:P:345:ILE:HG23	1:P:475:THR:HG1	1.81	0.45
1:P:533:ASP:OD1	1:P:535:ALA:HB3	2.16	0.45
1:R:322:TYR:O	1:R:323:SER:HB3	2.17	0.45
1:R:561:ASP:O	1:R:563:PRO:HD3	2.16	0.45
1:R:562:TYR:HA	1:R:565:LEU:HB2	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:101:THR:HG21	1:T:159:TRP:HZ2	1.82	0.45
1:T:367:SER:O	1:T:368:THR:CB	2.64	0.45
2:U:224:ASN:CG	2:U:346:LEU:HD11	2.42	0.45
3:W:19:ARG:NH1	3:W:285:LEU:HB2	2.31	0.45
3:W:247:VAL:HG12	3:W:248:LEU:N	2.30	0.45
3:W:717:ASP:N	3:W:718:PRO:CD	2.78	0.45
3:W:765:PHE:C	3:W:765:PHE:CD2	2.94	0.45
3:W:775:ARG:CD	3:W:868:ASP:HB2	2.46	0.45
3:W:852:VAL:HG22	3:W:853:THR:N	2.31	0.45
3:W:1063:VAL:CG1	3:W:1108:PHE:HB3	2.47	0.45
4:X:191:PRO:O	4:X:193:LEU:HD13	2.17	0.45
4:X:842:ALA:N	4:X:843:PRO:HD2	2.31	0.45
4:X:1099:ILE:O	4:X:1099:ILE:HG22	2.17	0.45
4:Y:276:THR:CG2	4:Y:299:LEU:HD23	2.47	0.45
4:Y:847:SER:O	4:Y:849:ALA:N	2.42	0.45
4:Y:1082:VAL:O	4:Y:1114:PRO:CA	2.65	0.45
1:B:252:LEU:HB3	1:B:613:LEU:CD2	2.47	0.45
1:B:297:ALA:CB	1:B:460:MET:HB2	2.33	0.45
1:B:330:GLN:O	1:B:331:LEU:HB2	2.17	0.45
1:B:341:MET:HG3	1:B:431:ILE:HD11	1.98	0.45
1:B:345:ILE:HD12	1:B:468:PRO:HB3	1.99	0.45
1:B:562:TYR:HA	1:B:565:LEU:HB2	1.99	0.45
1:B:600:LEU:O	1:B:601:THR:C	2.60	0.45
1:D:471:LEU:HD23	1:D:471:LEU:N	2.32	0.45
1:F:170:LEU:O	1:F:171:THR:C	2.60	0.45
1:F:255:SER:HA	1:F:258:THR:HG22	1.99	0.45
1:F:458:THR:HG23	1:F:458:THR:O	2.17	0.45
1:H:67:ARG:HH11	1:H:67:ARG:CG	2.29	0.45
1:H:199:LEU:HB3	1:H:207:PHE:CE2	2.52	0.45
1:H:345:ILE:HD12	1:H:468:PRO:HB3	1.99	0.45
1:H:599:ALA:O	1:H:600:LEU:C	2.60	0.45
1:J:330:GLN:O	1:J:331:LEU:HB2	2.17	0.45
1:J:340:ASP:O	1:J:344:MET:HG3	2.16	0.45
1:L:238:VAL:HG22	1:N:142:ILE:HD11	1.97	0.45
1:N:96:PHE:CD1	1:N:101:THR:HG23	2.44	0.45
1:O:33:ALA:HB1	1:T:260:SER:HB3	1.96	0.45
1:P:322:TYR:O	1:P:323:SER:HB3	2.17	0.45
1:P:533:ASP:CG	1:P:536:THR:HG23	2.42	0.45
1:R:44:THR:O	1:R:119:VAL:HG22	2.17	0.45
1:R:96:PHE:CD1	1:R:101:THR:HG23	2.44	0.45
1:R:141:GLN:HE22	1:R:144:ASN:ND2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:252:LEU:HB3	1:R:613:LEU:CD2	2.47	0.45
1:R:333:PRO:HG3	1:R:454:PHE:C	2.42	0.45
1:S:6:THR:HG23	1:S:7:SER:N	2.30	0.45
1:T:69:GLY:HA3	1:T:139:THR:HB	1.97	0.45
1:T:340:ASP:O	1:T:344:MET:HG3	2.16	0.45
1:T:354:SER:HB3	1:T:419:MET:HG2	1.97	0.45
1:T:385:VAL:HA	1:T:390:ASN:OD1	2.16	0.45
1:T:547:HIS:CE1	1:T:560:PRO:HA	2.52	0.45
2:U:9:LEU:O	2:U:145:MET:HE3	2.17	0.45
2:U:32:CYS:SG	4:X:958:HIS:CD2	3.04	0.45
2:U:54:TRP:CH2	4:X:1181:THR:HG22	2.52	0.45
2:U:140:GLN:HE21	2:U:144:ILE:HG12	1.82	0.45
2:U:223:LEU:HA	2:U:227:ARG:O	2.17	0.45
2:V:175:MET:SD	4:Y:404:MET:HE3	2.57	0.45
3:W:207:TYR:CZ	3:W:237:PRO:CB	2.99	0.45
3:W:234:THR:OG1	3:W:284:ARG:NH2	2.50	0.45
4:X:559:HIS:CE1	4:X:561:PRO:HD2	2.52	0.45
4:X:741:THR:HG23	4:X:744:PRO:HG2	1.98	0.45
4:Y:801:ARG:HG2	4:Y:801:ARG:HH11	1.82	0.45
4:Y:1032:ILE:HG23	4:Y:1032:ILE:O	2.17	0.45
1:B:346:ASP:HB3	1:B:427:GLU:HA	1.99	0.45
1:C:23:THR:C	1:C:25:ASP:N	2.75	0.45
1:D:141:GLN:HE22	1:D:144:ASN:ND2	2.15	0.45
1:D:252:LEU:HB3	1:D:613:LEU:CD2	2.47	0.45
1:D:341:MET:HG3	1:D:431:ILE:HD11	1.99	0.45
1:E:24:SER:CB	1:F:176:ALA:N	2.80	0.45
1:F:341:MET:HG3	1:F:431:ILE:HD11	1.99	0.45
1:F:357:ILE:CG2	1:F:358:LEU:N	2.80	0.45
1:H:169:MET:HG2	1:H:169:MET:O	2.15	0.45
1:H:183:TRP:CE2	1:H:187:LEU:CD1	3.00	0.45
1:H:340:ASP:O	1:H:344:MET:HG3	2.16	0.45
1:H:431:ILE:O	1:H:431:ILE:HG23	2.10	0.45
1:H:471:LEU:HD23	1:H:471:LEU:N	2.32	0.45
1:H:559:PRO:O	1:H:560:PRO:C	2.58	0.45
1:J:369:SER:CB	1:J:446:PRO:HD3	2.47	0.45
1:L:340:ASP:O	1:L:344:MET:HG3	2.16	0.45
1:N:333:PRO:HG3	1:N:454:PHE:C	2.42	0.45
1:N:354:SER:HB3	1:N:419:MET:HG2	1.97	0.45
1:P:199:LEU:HB3	1:P:207:PHE:CE2	2.52	0.45
1:P:255:SER:HA	1:P:258:THR:HG22	1.98	0.45
1:P:345:ILE:HD12	1:P:468:PRO:HB3	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:262:ALA:CB	1:R:608:LEU:HD13	2.47	0.45
1:T:458:THR:HG23	1:T:458:THR:O	2.17	0.45
2:U:10:THR:HG22	2:U:11:TYR:H	1.82	0.45
2:U:38:THR:HA	2:U:190:TYR:OH	2.16	0.45
2:U:54:TRP:CZ2	4:X:1181:THR:HA	2.52	0.45
2:U:123:ASN:C	2:U:125:TYR:N	2.73	0.45
2:U:251:ASN:ND2	2:U:253:GLY:H	2.15	0.45
2:U:386:ILE:O	2:U:387:GLN:HB3	2.17	0.45
3:W:102:ARG:CG	3:W:102:ARG:NH1	2.78	0.45
3:W:126:LEU:C	3:W:128:ALA:H	2.25	0.45
3:W:145:ASP:CG	3:W:148:ILE:HB	2.42	0.45
3:W:397:PRO:HB3	3:W:747:THR:HG21	1.99	0.45
3:W:923:ALA:C	3:W:925:GLY:N	2.73	0.45
3:W:1093:ASN:HB2	3:W:1095:GLU:HG2	1.99	0.45
4:X:197:ASP:OD2	4:X:253:GLY:HA3	2.17	0.45
4:X:518:LEU:CD1	4:X:820:VAL:HG23	2.47	0.45
4:X:534:SER:CB	4:X:543:THR:HG23	2.47	0.45
4:X:597:GLU:OE1	4:X:637:PRO:HD2	2.17	0.45
4:X:724:LEU:C	4:X:724:LEU:HD12	2.42	0.45
4:X:832:ILE:HB	4:X:835:HIS:CB	2.46	0.45
4:X:1021:VAL:HG23	4:X:1021:VAL:O	2.16	0.45
4:Y:218:GLU:OE1	4:Y:218:GLU:HA	2.17	0.45
4:Y:246:MET:CE	4:Y:262:ARG:HD2	2.46	0.45
4:Y:651:PRO:HB3	4:Y:679:TRP:CE3	2.51	0.45
1:B:491:ALA:HB2	1:B:592:THR:CG2	2.48	0.44
1:D:330:GLN:HB2	1:D:457:PRO:HG3	1.99	0.44
1:D:431:ILE:HD11	1:D:437:ILE:CG2	2.45	0.44
1:F:44:THR:O	1:F:119:VAL:HG22	2.17	0.44
1:F:141:GLN:HE22	1:F:144:ASN:ND2	2.15	0.44
1:F:436:TYR:CZ	1:N:435:PRO:HG2	2.52	0.44
1:F:533:ASP:CG	1:F:536:THR:HG23	2.42	0.44
1:F:559:PRO:O	1:F:560:PRO:C	2.58	0.44
1:H:141:GLN:HE22	1:H:144:ASN:ND2	2.15	0.44
1:J:252:LEU:HB3	1:J:613:LEU:CD2	2.47	0.44
1:J:346:ASP:HB3	1:J:427:GLU:HA	1.99	0.44
1:J:442:THR:OG1	1:J:443:PHE:N	2.50	0.44
1:J:533:ASP:OD1	1:J:536:THR:HG23	2.17	0.44
1:L:170:LEU:O	1:L:171:THR:C	2.60	0.44
1:L:183:TRP:CE2	1:L:187:LEU:CD1	3.00	0.44
1:L:333:PRO:HG3	1:L:454:PHE:C	2.42	0.44
1:L:458:THR:HG23	1:L:458:THR:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:471:LEU:HD23	1:L:471:LEU:N	2.32	0.44
1:N:199:LEU:HB3	1:N:207:PHE:CE2	2.52	0.44
1:N:600:LEU:O	1:N:601:THR:C	2.60	0.44
1:P:330:GLN:O	1:P:331:LEU:HB2	2.17	0.44
1:P:333:PRO:HG3	1:P:454:PHE:C	2.42	0.44
1:P:346:ASP:HB3	1:P:427:GLU:HA	1.99	0.44
1:P:385:VAL:HA	1:P:390:ASN:OD1	2.16	0.44
1:P:562:TYR:HA	1:P:565:LEU:HB2	1.99	0.44
1:R:178:SER:O	1:R:179:ALA:CB	2.64	0.44
1:R:330:GLN:O	1:R:331:LEU:HB2	2.17	0.44
1:R:345:ILE:HD12	1:R:468:PRO:HB3	1.99	0.44
1:R:533:ASP:CG	1:R:536:THR:HG23	2.42	0.44
1:T:322:TYR:O	1:T:323:SER:HB3	2.17	0.44
2:U:12:ASN:C	2:U:12:ASN:ND2	2.73	0.44
2:U:41:PHE:HD1	4:X:404:MET:HE2	1.80	0.44
2:U:393:ASP:O	2:U:396:GLN:HB3	2.17	0.44
2:V:196:LEU:HD13	2:V:196:LEU:HA	1.86	0.44
3:W:39:LEU:HD12	3:W:43:LEU:CB	2.46	0.44
3:W:391:VAL:HG11	3:W:790:ARG:HH11	1.82	0.44
3:W:448:ASP:HA	3:W:449:PRO:HD3	1.80	0.44
3:W:824:ARG:HA	3:W:847:PRO:HG2	1.98	0.44
4:X:247:THR:O	4:X:260:GLU:OE1	2.35	0.44
4:X:284:ASP:OD1	4:X:284:ASP:C	2.61	0.44
4:X:376:LEU:CD1	4:X:376:LEU:N	2.80	0.44
4:X:479:LEU:HD23	4:X:761:VAL:CG2	2.47	0.44
4:X:586:PHE:HA	4:X:642:PHE:CE2	2.52	0.44
4:X:697:MET:HE1	4:X:822:MET:HE2	2.00	0.44
4:X:1006:ARG:HH11	4:X:1013:VAL:CG2	2.29	0.44
4:X:1082:VAL:HB	4:X:1114:PRO:HB3	1.98	0.44
4:Y:282:TYR:OH	4:Y:289:ASN:ND2	2.51	0.44
4:Y:868:ARG:HD2	4:Y:932:ALA:O	2.17	0.44
1:B:333:PRO:HG3	1:B:454:PHE:C	2.42	0.44
1:B:525:ILE:HD11	1:B:604:VAL:HA	1.97	0.44
1:B:547:HIS:CE1	1:B:560:PRO:HA	2.51	0.44
1:D:416:ARG:HG3	1:F:298:PHE:HZ	1.82	0.44
1:D:458:THR:HG23	1:D:458:THR:O	2.17	0.44
1:D:540:VAL:CG2	1:D:566:TRP:HA	2.46	0.44
1:D:644:LEU:N	1:D:644:LEU:HD23	2.32	0.44
1:E:41:LEU:O	1:E:42:ASN:CB	2.37	0.44
1:F:330:GLN:HB2	1:F:457:PRO:HG3	1.99	0.44
1:F:343:ALA:CB	1:F:478:GLY:O	2.62	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:55:VAL:O	1:H:55:VAL:HG13	2.18	0.44
1:H:257:SER:C	1:H:259:LEU:N	2.74	0.44
1:H:458:THR:HG23	1:H:458:THR:O	2.17	0.44
1:H:533:ASP:CG	1:H:536:THR:HG23	2.42	0.44
1:H:561:ASP:O	1:H:563:PRO:HD3	2.16	0.44
1:J:333:PRO:HG3	1:J:454:PHE:C	2.42	0.44
1:L:262:ALA:CB	1:L:608:LEU:HD13	2.47	0.44
1:M:6:THR:HG23	1:M:7:SER:N	2.30	0.44
1:N:262:ALA:CB	1:N:608:LEU:HD13	2.47	0.44
1:N:599:ALA:O	1:N:600:LEU:C	2.60	0.44
1:P:208:TYR:CE2	1:P:212:ILE:HD11	2.53	0.44
1:P:533:ASP:OD1	1:P:536:THR:HG23	2.18	0.44
1:P:644:LEU:N	1:P:644:LEU:HD23	2.32	0.44
1:R:330:GLN:HB2	1:R:457:PRO:HG3	1.99	0.44
1:R:385:VAL:HA	1:R:390:ASN:OD1	2.16	0.44
1:R:416:ARG:HG3	1:T:298:PHE:HZ	1.81	0.44
1:R:458:THR:O	1:R:458:THR:HG23	2.17	0.44
1:R:644:LEU:N	1:R:644:LEU:HD23	2.32	0.44
1:S:26:MET:CG	1:T:216:PRO:HG3	2.29	0.44
1:T:183:TRP:CE2	1:T:187:LEU:CD1	3.01	0.44
1:T:199:LEU:HB3	1:T:207:PHE:CE2	2.52	0.44
1:T:330:GLN:HB2	1:T:457:PRO:HG3	1.99	0.44
1:T:369:SER:HB2	1:T:445:ILE:HA	1.97	0.44
1:T:491:ALA:HB2	1:T:592:THR:CG2	2.48	0.44
2:U:6:PHE:CD2	2:U:6:PHE:C	2.95	0.44
2:U:42:SER:C	2:U:43:HIS:CD2	2.95	0.44
2:U:150:LEU:HD13	2:U:300:ILE:HD13	1.99	0.44
2:U:283:GLY:HA2	2:U:286:MET:HE2	1.98	0.44
2:U:302:GLU:HG2	2:U:310:GLN:HE21	1.81	0.44
3:W:271:ARG:HH21	3:W:328:PRO:HG2	1.83	0.44
3:W:553:GLN:HB3	3:W:558:VAL:HG23	1.98	0.44
3:W:1108:PHE:CD2	3:W:1108:PHE:N	2.85	0.44
4:X:531:CYS:SG	4:X:813:VAL:HG11	2.58	0.44
4:X:757:VAL:HG11	4:X:841:PHE:CD1	2.52	0.44
4:X:865:VAL:HG11	4:X:955:SER:OG	2.16	0.44
4:X:973:ASN:ND2	4:X:1144:ASP:CB	2.81	0.44
4:X:1059:PHE:C	4:X:1059:PHE:CD1	2.96	0.44
4:X:1130:ALA:O	4:X:1132:ARG:HG3	2.17	0.44
4:Y:27:ALA:O	4:Y:28:PRO:C	2.59	0.44
4:Y:201:CYS:SG	4:Y:201:CYS:O	2.76	0.44
4:Y:202:THR:HG23	4:Y:391:CYS:HA	1.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:231:MET:HE1	4:Y:347:ARG:NH2	2.32	0.44
4:Y:257:ARG:HE	4:Y:257:ARG:HB3	1.50	0.44
4:Y:358:GLN:NE2	4:Y:1154:ILE:HD13	2.32	0.44
1:B:471:LEU:HD23	1:B:471:LEU:N	2.32	0.44
1:B:549:LEU:C	1:B:549:LEU:CD1	2.86	0.44
1:D:169:MET:HG2	1:D:169:MET:O	2.15	0.44
1:D:262:ALA:CB	1:D:608:LEU:HD13	2.47	0.44
1:F:55:VAL:O	1:F:55:VAL:HG13	2.18	0.44
1:F:183:TRP:CE2	1:F:187:LEU:CD1	3.00	0.44
5:G:649:MYR:H21	1:H:191:LYS:NZ	2.25	0.44
1:H:442:THR:OG1	1:H:443:PHE:N	2.50	0.44
1:H:562:TYR:HA	1:H:565:LEU:HB2	1.99	0.44
1:I:24:SER:CB	1:J:176:ALA:N	2.80	0.44
1:J:208:TYR:CE2	1:J:212:ILE:HD11	2.53	0.44
1:J:298:PHE:CZ	1:N:355:GLY:CA	2.80	0.44
1:L:252:LEU:HB3	1:L:613:LEU:CD2	2.47	0.44
1:N:46:LYS:O	1:N:48:TRP:CD1	2.71	0.44
1:N:141:GLN:HE22	1:N:144:ASN:ND2	2.15	0.44
1:N:208:TYR:CE2	1:N:212:ILE:HD11	2.52	0.44
1:N:491:ALA:HB2	1:N:592:THR:CG2	2.48	0.44
1:P:183:TRP:CE2	1:P:187:LEU:CD1	3.00	0.44
1:P:298:PHE:HZ	1:T:416:ARG:HG3	1.81	0.44
1:Q:36:LEU:HD22	1:Q:41:LEU:HD11	1.98	0.44
1:R:442:THR:OG1	1:R:443:PHE:N	2.50	0.44
1:R:471:LEU:HD23	1:R:471:LEU:N	2.32	0.44
1:T:53:THR:HG22	1:T:54:SER:N	2.31	0.44
1:T:141:GLN:HE22	1:T:144:ASN:ND2	2.15	0.44
1:T:152:ARG:HA	1:T:155:ASP:OD2	2.18	0.44
1:T:257:SER:C	1:T:259:LEU:N	2.74	0.44
2:U:154:GLY:HA2	2:U:274:TRP:CE2	2.52	0.44
2:U:406:LEU:O	2:U:406:LEU:HD22	2.18	0.44
2:V:150:LEU:HB2	2:V:156:ILE:HD11	1.98	0.44
3:W:310:LEU:O	3:W:310:LEU:HD13	2.17	0.44
3:W:993:PRO:HA	3:W:1017:ILE:HD11	1.98	0.44
3:W:998:LEU:HD23	3:W:998:LEU:HA	1.72	0.44
3:W:1258:MET:HG2	3:W:1259:SER:H	1.82	0.44
4:X:206:LEU:HD12	4:X:243:ILE:HG12	1.99	0.44
4:X:225:PHE:C	4:X:227:GLN:N	2.74	0.44
4:X:243:ILE:HD11	4:X:1147:PHE:HD1	1.82	0.44
4:X:354:THR:O	4:X:355:LYS:C	2.60	0.44
4:X:531:CYS:SG	4:X:818:ILE:CD1	3.06	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:590:ALA:CB	4:X:639:LEU:HD21	2.47	0.44
4:X:883:ARG:HH11	4:X:883:ARG:CB	2.30	0.44
4:X:949:HIS:O	4:X:951:PRO:HD3	2.17	0.44
4:Y:191:PRO:HA	4:Y:915:LEU:CD1	2.47	0.44
4:Y:265:PRO:O	4:Y:267:THR:N	2.50	0.44
4:Y:737:ARG:HH21	4:Y:737:ARG:CG	2.20	0.44
4:Y:874:CYS:SG	4:Y:901:ILE:HD13	2.56	0.44
1:A:24:SER:CB	1:B:176:ALA:N	2.80	0.44
1:B:44:THR:O	1:B:119:VAL:HG22	2.17	0.44
1:B:53:THR:HG22	1:B:54:SER:N	2.31	0.44
1:B:208:TYR:CE2	1:B:212:ILE:HD11	2.53	0.44
1:B:362:THR:O	1:B:364:PRO:HD3	2.18	0.44
1:B:533:ASP:CG	1:B:536:THR:HG23	2.42	0.44
1:D:455:SER:O	1:H:412:ARG:CA	2.66	0.44
1:D:567:ARG:HB2	1:D:567:ARG:NH1	2.33	0.44
1:F:46:LYS:O	1:F:48:TRP:CD1	2.71	0.44
1:F:152:ARG:HA	1:F:155:ASP:OD2	2.18	0.44
1:F:346:ASP:HB3	1:F:427:GLU:HA	1.99	0.44
1:F:416:ARG:HG3	1:H:298:PHE:HZ	1.82	0.44
1:F:600:LEU:HG	1:F:601:THR:N	2.30	0.44
1:J:345:ILE:HD12	1:J:468:PRO:HB3	1.99	0.44
1:J:455:SER:O	1:N:412:ARG:CA	2.66	0.44
1:J:559:PRO:O	1:J:560:PRO:C	2.58	0.44
1:J:644:LEU:N	1:J:644:LEU:HD23	2.32	0.44
1:L:346:ASP:HB3	1:L:427:GLU:HA	1.99	0.44
1:L:357:ILE:CG2	1:L:358:LEU:N	2.80	0.44
1:L:418:ASN:CG	1:N:337:ARG:NH2	2.74	0.44
1:L:491:ALA:HB2	1:L:592:THR:CG2	2.48	0.44
1:L:559:PRO:O	1:L:560:PRO:C	2.58	0.44
1:M:24:SER:CB	1:N:176:ALA:N	2.80	0.44
1:N:44:THR:O	1:N:119:VAL:HG22	2.17	0.44
1:P:46:LYS:O	1:P:48:TRP:CD1	2.71	0.44
1:P:51:VAL:HG12	3:W:379:VAL:HG23	2.00	0.44
1:P:53:THR:HG22	1:P:54:SER:N	2.31	0.44
1:P:341:MET:HG3	1:P:431:ILE:HD11	1.98	0.44
1:Q:24:SER:CB	1:R:176:ALA:N	2.80	0.44
1:R:533:ASP:OD1	1:R:536:THR:HG23	2.17	0.44
1:R:582:LEU:O	1:R:584:LEU:N	2.51	0.44
1:T:346:ASP:HB3	1:T:427:GLU:HA	1.99	0.44
1:T:360:TYR:HD2	1:T:360:TYR:C	2.24	0.44
2:U:312:VAL:O	2:U:313:ALA:C	2.60	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:406:LEU:HD13	2:U:406:LEU:C	2.42	0.44
3:W:63:PRO:C	3:W:65:LEU:N	2.76	0.44
3:W:244:THR:OG1	4:X:652:GLN:NE2	2.49	0.44
3:W:312:LEU:CD1	3:W:352:TYR:HB2	2.42	0.44
3:W:453:PRO:HA	3:W:454:PRO:HD2	1.87	0.44
3:W:566:LEU:O	3:W:602:MET:HA	2.18	0.44
3:W:955:VAL:CG2	3:W:964:VAL:CG1	2.95	0.44
3:W:1014:ASN:HD22	3:W:1213:SER:HB2	1.80	0.44
4:X:277:VAL:HG22	4:X:900:GLU:HB3	2.00	0.44
4:X:844:LEU:HD12	4:X:844:LEU:N	2.33	0.44
4:Y:206:LEU:O	4:Y:236:PRO:HB3	2.18	0.44
4:Y:231:MET:HE1	4:Y:347:ARG:CZ	2.48	0.44
4:Y:277:VAL:HG11	4:Y:295:SER:OG	2.17	0.44
4:Y:294:ARG:NE	4:Y:890:GLN:HB3	2.32	0.44
4:Y:406:LEU:HD23	4:Y:409:MET:HE3	2.00	0.44
1:B:170:LEU:O	1:B:171:THR:C	2.60	0.44
1:B:255:SER:HA	1:B:258:THR:HG22	1.99	0.44
1:D:57:THR:N	1:D:60:SER:HB3	2.26	0.44
1:F:362:THR:O	1:F:364:PRO:HD3	2.18	0.44
1:F:369:SER:CB	1:F:446:PRO:HD3	2.47	0.44
1:F:371:PRO:HG3	1:F:407:LEU:HD23	1.99	0.44
1:F:549:LEU:C	1:F:549:LEU:CD1	2.87	0.44
1:F:582:LEU:HD23	1:F:582:LEU:HA	1.69	0.44
1:F:582:LEU:O	1:F:584:LEU:N	2.51	0.44
1:H:252:LEU:HB3	1:H:613:LEU:CD2	2.47	0.44
1:H:262:ALA:CB	1:H:608:LEU:HD13	2.47	0.44
1:L:322:TYR:O	1:L:323:SER:HB3	2.17	0.44
1:L:341:MET:HG3	1:L:431:ILE:HD11	1.98	0.44
1:L:547:HIS:CE1	1:L:560:PRO:HA	2.51	0.44
1:N:471:LEU:HD23	1:N:471:LEU:N	2.32	0.44
1:N:644:LEU:HD23	1:N:644:LEU:N	2.32	0.44
1:P:371:PRO:HG3	1:P:407:LEU:HD23	1.99	0.44
1:P:416:ARG:HG3	1:R:298:PHE:HZ	1.81	0.44
1:P:600:LEU:O	1:P:601:THR:C	2.60	0.44
1:T:46:LYS:O	1:T:48:TRP:CD1	2.71	0.44
1:T:55:VAL:HG13	1:T:55:VAL:O	2.18	0.44
1:T:178:SER:HB3	1:T:179:ALA:H	1.65	0.44
1:T:362:THR:O	1:T:364:PRO:HD3	2.18	0.44
2:U:156:ILE:HG12	2:U:268:ARG:HB3	2.00	0.44
2:U:178:THR:HB	4:X:376:LEU:CD2	2.47	0.44
2:U:291:THR:HG23	2:U:297:PRO:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:304:THR:HG23	2:U:304:THR:O	2.18	0.44
3:W:440:THR:CG2	3:W:647:PRO:HB3	2.47	0.44
4:X:330:ILE:HA	4:X:369:GLY:HA2	2.00	0.44
4:X:504:THR:C	4:X:506:GLN:H	2.26	0.44
4:X:541:VAL:CG2	4:X:811:LEU:HG	2.45	0.44
4:Y:92:ASN:C	4:Y:94:THR:H	2.25	0.44
4:Y:359:PHE:CE1	4:Y:1173:VAL:HG21	2.53	0.44
4:Y:424:ALA:O	4:Y:425:ASN:HB2	2.18	0.44
4:Y:442:CYS:HB3	4:Y:444:TRP:CD2	2.52	0.44
4:Y:986:GLN:HB2	4:Y:1135:TYR:CE1	2.53	0.44
1:B:79:ARG:NH1	1:B:79:ARG:CB	2.81	0.44
1:B:262:ALA:CB	1:B:608:LEU:HD13	2.47	0.44
1:B:345:ILE:HG23	1:B:475:THR:HG1	1.83	0.44
5:C:649:MYR:H52	5:C:649:MYR:C9	2.42	0.44
1:D:68:PHE:O	1:D:140:VAL:HB	2.18	0.44
1:D:235:LEU:HD13	1:D:235:LEU:HA	1.80	0.44
1:D:257:SER:C	1:D:259:LEU:N	2.74	0.44
1:F:193:ILE:O	1:F:194:LEU:C	2.61	0.44
1:F:330:GLN:O	1:F:331:LEU:HB2	2.17	0.44
1:F:385:VAL:HA	1:F:390:ASN:OD1	2.16	0.44
1:F:533:ASP:OD1	1:F:536:THR:HG23	2.18	0.44
1:F:599:ALA:O	1:F:600:LEU:C	2.60	0.44
1:H:170:LEU:O	1:H:171:THR:C	2.60	0.44
1:H:341:MET:HG3	1:H:431:ILE:HD11	1.99	0.44
1:J:79:ARG:NH1	1:J:79:ARG:CB	2.81	0.44
1:J:341:MET:CE	1:J:341:MET:CA	2.88	0.44
1:J:458:THR:O	1:J:458:THR:HG23	2.17	0.44
1:J:491:ALA:HB2	1:J:592:THR:CG2	2.48	0.44
1:K:9:ASN:HD21	1:L:206:GLU:HG3	1.83	0.44
1:L:369:SER:CB	1:L:446:PRO:HD3	2.47	0.44
1:L:401:GLY:O	1:L:402:ALA:CB	2.66	0.44
1:L:644:LEU:N	1:L:644:LEU:HD23	2.32	0.44
1:N:79:ARG:NH1	1:N:79:ARG:CB	2.81	0.44
1:N:183:TRP:CE2	1:N:187:LEU:CD1	3.00	0.44
1:N:256:SER:OG	1:N:257:SER:N	2.51	0.44
1:N:547:HIS:CE1	1:N:560:PRO:HA	2.52	0.44
1:O:18:ASN:O	1:O:19:SER:HB3	2.18	0.44
1:P:170:LEU:O	1:P:171:THR:C	2.60	0.44
1:P:256:SER:OG	1:P:257:SER:N	2.51	0.44
1:P:458:THR:HG23	1:P:458:THR:O	2.17	0.44
1:R:152:ARG:HA	1:R:155:ASP:OD2	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:199:LEU:HB3	1:R:207:PHE:CE2	2.52	0.44
1:R:255:SER:HA	1:R:258:THR:HG22	1.98	0.44
1:R:341:MET:HB2	1:R:437:ILE:CG2	2.35	0.44
1:S:24:SER:CB	1:T:176:ALA:N	2.81	0.44
1:T:208:TYR:CE2	1:T:212:ILE:HD11	2.53	0.44
1:T:256:SER:OG	1:T:257:SER:N	2.51	0.44
1:T:341:MET:HG3	1:T:431:ILE:HD11	1.98	0.44
1:T:567:ARG:HB2	1:T:567:ARG:NH1	2.33	0.44
2:U:148:TRP:CD1	2:U:155:PRO:HB3	2.53	0.44
2:U:148:TRP:HZ2	2:U:285:LEU:HD23	1.83	0.44
2:U:167:PRO:HB2	2:U:170:THR:OG1	2.17	0.44
2:V:223:LEU:HD11	2:V:411:PHE:CZ	2.52	0.44
3:W:234:THR:HG22	3:W:235:TYR:CD2	2.53	0.44
3:W:383:PHE:HD1	3:W:383:PHE:H	1.66	0.44
3:W:432:PHE:CB	3:W:481:ALA:HB2	2.48	0.44
4:X:411:GLN:HG2	4:X:445:PHE:CD2	2.52	0.44
4:X:453:LEU:O	4:X:457:MET:HB2	2.17	0.44
4:X:879:PHE:O	4:X:881:VAL:HG22	2.18	0.44
4:X:931:ILE:CD1	4:Y:689:VAL:HG11	2.47	0.44
4:X:1088:TYR:CE1	4:X:1132:ARG:HD2	2.51	0.44
4:Y:407:ARG:O	4:Y:408:SER:C	2.61	0.44
4:Y:647:ARG:HD3	4:Y:774:LEU:HD23	2.00	0.44
4:Y:651:PRO:O	4:Y:773:ARG:HD2	2.17	0.44
1:A:9:ASN:HD21	1:B:206:GLU:HG3	1.83	0.44
1:B:55:VAL:HG13	1:B:55:VAL:O	2.18	0.44
1:B:152:ARG:HA	1:B:155:ASP:OD2	2.18	0.44
1:B:360:TYR:HD2	1:B:360:TYR:C	2.24	0.44
1:B:458:THR:O	1:B:458:THR:HG23	2.17	0.44
1:B:533:ASP:OD1	1:B:536:THR:HG23	2.18	0.44
1:B:567:ARG:NH1	1:B:567:ARG:HB2	2.33	0.44
1:B:582:LEU:O	1:B:584:LEU:N	2.51	0.44
1:D:50:PRO:CD	1:D:61:LEU:HD23	2.47	0.44
1:D:588:ILE:HD13	1:D:588:ILE:HA	1.80	0.44
1:D:599:ALA:O	1:D:600:LEU:C	2.60	0.44
1:H:79:ARG:NH1	1:H:79:ARG:CB	2.81	0.44
1:H:533:ASP:OD1	1:H:536:THR:HG23	2.18	0.44
1:H:603:GLY:C	1:H:605:GLY:N	2.75	0.44
1:J:58:ILE:O	1:J:59:ASP:CB	2.63	0.44
1:J:337:ARG:NH2	1:N:418:ASN:CG	2.74	0.44
1:J:468:PRO:O	1:L:578:SER:OG	2.21	0.44
1:J:575:MET:HE3	1:N:469:VAL:HG21	0.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:141:GLN:HE22	1:L:144:ASN:ND2	2.15	0.44
1:L:412:ARG:CA	1:N:455:SER:O	2.66	0.44
1:N:55:VAL:O	1:N:55:VAL:HG13	2.18	0.44
1:N:458:THR:HG23	1:N:458:THR:O	2.17	0.44
1:N:533:ASP:OD1	1:N:536:THR:HG23	2.18	0.44
1:N:562:TYR:HA	1:N:565:LEU:HB2	1.99	0.44
1:O:9:ASN:HD21	1:P:206:GLU:HG3	1.83	0.44
1:O:23:THR:C	1:O:25:ASP:H	2.26	0.44
1:P:344:MET:HE2	1:P:502:LEU:CD1	2.37	0.44
1:R:401:GLY:O	1:R:402:ALA:CB	2.66	0.44
1:R:567:ARG:NH1	1:R:567:ARG:HB2	2.33	0.44
1:T:79:ARG:NH1	1:T:79:ARG:CB	2.81	0.44
1:T:341:MET:CE	1:T:341:MET:CA	2.88	0.44
1:T:369:SER:CB	1:T:446:PRO:HD3	2.47	0.44
2:U:22:ASP:O	2:U:25:ASP:HB2	2.18	0.44
2:U:228:THR:HG21	2:U:251:ASN:HB3	2.00	0.44
2:U:231:GLY:HA3	2:U:250:TRP:NE1	2.33	0.44
2:V:89:GLY:C	2:V:103:VAL:HG23	2.43	0.44
2:V:312:VAL:HG12	2:V:313:ALA:H	1.83	0.44
3:W:16:SER:O	3:W:285:LEU:HD11	2.17	0.44
3:W:148:ILE:CG2	3:W:149:THR:N	2.81	0.44
3:W:270:LEU:HA	3:W:270:LEU:HD23	1.82	0.44
3:W:424:SER:O	3:W:426:LEU:N	2.47	0.44
3:W:1289:LEU:HD22	3:W:1289:LEU:H	1.83	0.44
4:X:266:PRO:HB2	4:X:1085:LEU:HD12	1.99	0.44
4:X:314:SER:N	4:X:1197:TYR:O	2.43	0.44
4:X:354:THR:CG2	4:X:1152:ALA:HA	2.47	0.44
4:X:446:ALA:HB2	4:X:858:VAL:HG23	2.00	0.44
4:X:459:LEU:HA	4:X:462:ILE:HG22	2.00	0.44
4:X:517:LEU:O	4:X:519:GLN:N	2.49	0.44
4:X:517:LEU:HD12	4:X:565:LYS:HG3	2.00	0.44
4:X:718:THR:CA	4:X:726:ARG:HH11	2.29	0.44
4:X:844:LEU:H	4:X:844:LEU:HD12	1.83	0.44
4:X:996:MET:HB3	4:X:1143:ASN:HB2	2.00	0.44
4:Y:128:THR:HG22	4:Y:130:SER:N	2.26	0.44
4:Y:172:PRO:CD	4:Y:847:SER:HA	2.46	0.44
4:Y:370:ARG:NE	4:Y:385:VAL:HG23	2.32	0.44
4:Y:612:ALA:O	4:Y:613:SER:C	2.61	0.44
4:Y:1023:ARG:NH2	4:Y:1030:GLN:NE2	2.66	0.44
1:B:343:ALA:CB	1:B:478:GLY:O	2.62	0.44
1:B:371:PRO:HG3	1:B:407:LEU:HD23	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:387:THR:O	1:B:390:ASN:HB2	2.18	0.44
1:B:559:PRO:O	1:B:560:PRO:C	2.58	0.44
1:D:330:GLN:O	1:D:331:LEU:HB2	2.17	0.44
1:D:491:ALA:HB2	1:D:592:THR:CG2	2.48	0.44
1:D:533:ASP:CG	1:D:536:THR:HG23	2.42	0.44
1:F:491:ALA:HB2	1:F:592:THR:CG2	2.47	0.44
1:F:644:LEU:HD23	1:F:644:LEU:N	2.32	0.44
1:H:167:MET:HA	1:H:167:MET:CE	2.31	0.44
1:H:208:TYR:CE2	1:H:212:ILE:HD11	2.52	0.44
1:H:567:ARG:NH1	1:H:567:ARG:HB2	2.33	0.44
1:J:152:ARG:HA	1:J:155:ASP:OD2	2.18	0.44
1:J:533:ASP:CG	1:J:536:THR:HG23	2.42	0.44
1:J:564:LEU:CD2	1:J:568:ARG:NH2	2.75	0.44
1:K:23:THR:C	1:K:25:ASP:N	2.75	0.44
1:L:107:VAL:HG21	1:N:128:ASP:OD2	2.18	0.44
1:L:152:ARG:HA	1:L:155:ASP:OD2	2.18	0.44
1:L:533:ASP:OD1	1:L:536:THR:HG23	2.18	0.44
1:L:540:VAL:HG21	1:L:566:TRP:HA	2.00	0.44
1:N:53:THR:HG22	1:N:54:SER:N	2.32	0.44
1:N:387:THR:O	1:N:390:ASN:HB2	2.18	0.44
1:N:431:ILE:HD11	1:N:437:ILE:CG2	2.45	0.44
1:N:533:ASP:CG	1:N:536:THR:HG23	2.42	0.44
1:N:567:ARG:NH1	1:N:567:ARG:HB2	2.33	0.44
1:P:193:ILE:O	1:P:194:LEU:C	2.61	0.44
1:P:582:LEU:O	1:P:584:LEU:N	2.51	0.44
1:T:92:TRP:CZ2	1:T:160:GLN:CB	3.01	0.44
1:T:255:SER:HA	1:T:258:THR:HG22	1.99	0.44
2:U:157:TYR:HB2	2:U:287:SER:HB2	2.00	0.44
3:W:15:THR:HG23	3:W:317:GLY:CA	2.47	0.44
3:W:353:ARG:HB2	3:W:356:GLN:O	2.18	0.44
3:W:773:ARG:HG2	3:W:867:PHE:HD2	1.83	0.44
3:W:773:ARG:HD3	3:W:872:THR:HG21	2.00	0.44
3:W:1264:PRO:O	3:W:1265:ALA:C	2.61	0.44
4:X:210:ILE:O	4:X:239:ALA:N	2.51	0.44
4:X:394:LEU:HD13	4:X:967:THR:HG21	1.99	0.44
4:X:513:GLU:O	4:X:514:ILE:C	2.61	0.44
4:X:700:TRP:O	4:X:704:THR:CG2	2.60	0.44
4:X:789:ASP:C	4:X:791:ALA:H	2.25	0.44
4:X:813:VAL:CG1	4:X:818:ILE:HD11	2.46	0.44
4:X:861:ARG:HE	4:X:861:ARG:HB3	1.66	0.44
4:X:987:THR:CG2	4:X:989:THR:HG23	2.40	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:43:ALA:C	4:Y:45:ASP:H	2.24	0.44
4:Y:61:ASN:C	4:Y:63:VAL:H	2.25	0.44
4:Y:260:GLU:HA	4:Y:307:SER:HB2	2.00	0.44
4:Y:686:ARG:HH11	4:Y:686:ARG:CG	2.30	0.44
4:Y:718:THR:O	4:Y:719:ALA:C	2.61	0.44
4:Y:831:LEU:O	4:Y:833:PRO:HD3	2.17	0.44
4:Y:862:GLU:OE1	4:Y:862:GLU:HA	2.17	0.44
4:Y:910:LYS:O	4:Y:914:ASP:N	2.50	0.44
1:C:24:SER:CB	1:D:176:ALA:N	2.81	0.44
1:D:256:SER:OG	1:D:257:SER:N	2.51	0.44
1:D:298:PHE:HZ	1:H:416:ARG:HG3	1.81	0.44
1:D:346:ASP:HB3	1:D:427:GLU:HA	1.99	0.44
1:D:533:ASP:OD1	1:D:536:THR:HG23	2.17	0.44
1:D:582:LEU:O	1:D:584:LEU:N	2.51	0.44
1:F:262:ALA:CB	1:F:608:LEU:HD13	2.47	0.44
1:F:387:THR:O	1:F:390:ASN:HB2	2.18	0.44
1:F:456:ASN:ND2	1:F:458:THR:HG22	2.33	0.44
1:G:23:THR:C	1:G:25:ASP:H	2.26	0.44
1:H:46:LYS:O	1:H:48:TRP:CD1	2.71	0.44
1:H:152:ARG:HA	1:H:155:ASP:OD2	2.18	0.44
1:H:369:SER:CB	1:H:446:PRO:HD3	2.47	0.44
1:H:371:PRO:HG3	1:H:407:LEU:HD23	1.99	0.44
1:I:9:ASN:HD21	1:J:206:GLU:HG3	1.83	0.44
1:J:141:GLN:HE22	1:J:144:ASN:ND2	2.15	0.44
1:J:330:GLN:HB2	1:J:457:PRO:HG3	1.99	0.44
1:J:582:LEU:O	1:J:584:LEU:N	2.51	0.44
1:J:609:ARG:CD	1:K:29:THR:HG21	2.47	0.44
1:K:23:THR:C	1:K:25:ASP:H	2.26	0.44
1:L:67:ARG:HH11	1:L:67:ARG:CG	2.29	0.44
1:L:208:TYR:CE2	1:L:212:ILE:HD11	2.53	0.44
1:L:330:GLN:HB2	1:L:457:PRO:HG3	1.99	0.44
1:L:387:THR:O	1:L:390:ASN:HB2	2.18	0.44
1:L:603:GLY:C	1:L:605:GLY:N	2.75	0.44
1:M:23:THR:C	1:M:25:ASP:H	2.26	0.44
5:M:649:MYR:C2	1:N:191:LYS:HZ1	2.27	0.44
1:N:152:ARG:HA	1:N:155:ASP:OD2	2.18	0.44
1:N:252:LEU:HB3	1:N:613:LEU:CD2	2.47	0.44
1:N:330:GLN:HB2	1:N:457:PRO:HG3	1.99	0.44
1:N:346:ASP:HB3	1:N:427:GLU:HA	1.99	0.44
1:N:582:LEU:O	1:N:584:LEU:N	2.51	0.44
1:O:29:THR:HG21	1:T:609:ARG:CD	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:141:GLN:HE22	1:P:144:ASN:ND2	2.15	0.44
1:P:455:SER:O	1:T:412:ARG:CA	2.66	0.44
1:Q:9:ASN:HD21	1:R:206:GLU:HG3	1.83	0.44
1:R:55:VAL:HG13	1:R:55:VAL:O	2.18	0.44
1:R:183:TRP:NE1	1:R:187:LEU:CD1	2.81	0.44
1:R:199:LEU:CD1	1:R:203:TYR:CE2	3.01	0.44
1:R:208:TYR:CE2	1:R:212:ILE:HD11	2.53	0.44
1:R:235:LEU:HD13	1:R:235:LEU:HA	1.80	0.44
1:R:369:SER:CB	1:R:446:PRO:HD3	2.47	0.44
1:T:67:ARG:HH11	1:T:67:ARG:CG	2.29	0.44
1:T:193:ILE:O	1:T:194:LEU:C	2.61	0.44
1:T:357:ILE:CG2	1:T:358:LEU:N	2.80	0.44
1:T:387:THR:O	1:T:390:ASN:HB2	2.18	0.44
1:T:588:ILE:HA	1:T:588:ILE:HD13	1.80	0.44
1:T:600:LEU:HG	1:T:601:THR:N	2.30	0.44
2:U:42:SER:O	2:U:43:HIS:HD2	2.01	0.44
2:U:63:SER:O	2:U:66:ILE:HG22	2.18	0.44
2:U:124:ASN:HA	3:W:353:ARG:NH1	2.33	0.44
2:V:191:ARG:HH12	4:Y:438:PRO:HG2	1.80	0.44
3:W:10:VAL:HB	3:W:388:TYR:CE2	2.52	0.44
3:W:632:PHE:CE2	3:W:670:SER:HB3	2.52	0.44
3:W:700:VAL:O	3:W:700:VAL:HG13	2.16	0.44
3:W:735:LEU:CD2	3:W:759:ILE:HB	2.48	0.44
3:W:765:PHE:CD2	3:W:766:LEU:N	2.86	0.44
3:W:1267:LEU:HA	3:W:1268:PRO:HD3	1.89	0.44
4:X:241:ASN:ND2	4:X:1148:SER:OG	2.37	0.44
4:X:244:VAL:HG22	4:X:245:CYS:N	2.33	0.44
4:X:297:VAL:O	4:X:297:VAL:HG12	2.17	0.44
4:X:514:ILE:CG1	4:X:515:LEU:N	2.81	0.44
4:X:983:TYR:HE2	4:X:1075:LEU:CG	2.30	0.44
4:X:1059:PHE:CD2	4:X:1063:VAL:HG21	2.53	0.44
4:Y:257:ARG:O	4:Y:259:LEU:N	2.50	0.44
4:Y:412:ASP:OD2	4:Y:414:THR:HG22	2.16	0.44
4:Y:621:TRP:HB2	4:Y:776:GLN:NE2	2.32	0.44
4:Y:660:SER:HB3	4:Y:663:GLN:CG	2.47	0.44
4:Y:874:CYS:HB3	4:Y:893:VAL:CG2	2.46	0.44
1:C:9:ASN:HD21	1:D:206:GLU:HG3	1.83	0.43
1:D:44:THR:O	1:D:119:VAL:HG22	2.17	0.43
1:D:78:MET:HE2	1:H:238:VAL:HG21	1.83	0.43
1:D:170:LEU:O	1:D:171:THR:C	2.60	0.43
1:E:23:THR:C	1:E:25:ASP:H	2.26	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:540:VAL:HG21	1:F:566:TRP:HA	2.00	0.43
1:G:24:SER:CB	1:H:176:ALA:N	2.81	0.43
1:H:582:LEU:O	1:H:584:LEU:N	2.51	0.43
1:J:92:TRP:CZ2	1:J:160:GLN:CB	3.01	0.43
1:J:183:TRP:CE2	1:J:187:LEU:CD1	3.01	0.43
1:J:257:SER:C	1:J:259:LEU:N	2.74	0.43
1:J:387:THR:O	1:J:390:ASN:HB2	2.18	0.43
1:J:456:ASN:ND2	1:J:458:THR:HG22	2.33	0.43
1:L:46:LYS:O	1:L:48:TRP:CD1	2.71	0.43
1:L:55:VAL:HG13	1:L:55:VAL:O	2.18	0.43
1:L:345:ILE:HD12	1:L:468:PRO:HB3	1.99	0.43
1:L:371:PRO:HG3	1:L:407:LEU:HD23	1.99	0.43
1:N:322:TYR:O	1:N:323:SER:HB3	2.17	0.43
1:N:330:GLN:O	1:N:331:LEU:HB2	2.17	0.43
1:N:362:THR:O	1:N:364:PRO:HD3	2.18	0.43
1:N:369:SER:CB	1:N:446:PRO:HD3	2.47	0.43
1:N:540:VAL:HG21	1:N:566:TRP:HA	2.00	0.43
1:P:152:ARG:HA	1:P:155:ASP:OD2	2.18	0.43
1:P:252:LEU:HB3	1:P:613:LEU:CD2	2.47	0.43
1:P:456:ASN:ND2	1:P:458:THR:HG22	2.33	0.43
1:R:46:LYS:O	1:R:48:TRP:CD1	2.71	0.43
1:R:92:TRP:CZ2	1:R:160:GLN:CB	3.01	0.43
1:R:256:SER:OG	1:R:257:SER:N	2.51	0.43
1:R:588:ILE:HG22	1:R:591:LEU:HB2	2.00	0.43
1:T:297:ALA:CB	1:T:460:MET:HB2	2.33	0.43
2:U:13:PHE:HD1	2:U:17:PRO:O	2.01	0.43
2:U:91:THR:O	2:U:92:TRP:C	2.60	0.43
2:U:125:TYR:CE2	2:U:127:THR:HG22	2.53	0.43
2:U:198:GLN:OE1	2:U:198:GLN:CA	2.65	0.43
2:U:241:LEU:O	4:X:1179:VAL:HG11	2.17	0.43
2:U:379:ILE:C	2:U:381:ALA:N	2.75	0.43
3:W:148:ILE:O	3:W:152:THR:HG22	2.18	0.43
3:W:315:VAL:O	3:W:315:VAL:HG22	2.18	0.43
3:W:635:TYR:HD2	3:W:638:HIS:CE1	2.36	0.43
3:W:1154:ARG:NE	3:W:1189:ASN:HB2	2.33	0.43
4:X:277:VAL:O	4:X:278:LEU:C	2.60	0.43
4:X:839:LYS:HZ2	4:X:839:LYS:CB	2.30	0.43
4:X:940:GLN:HE21	4:X:940:GLN:HB2	1.53	0.43
4:X:1064:TRP:HE1	4:X:1101:GLU:CG	2.31	0.43
4:X:1064:TRP:HE1	4:X:1101:GLU:HG2	1.83	0.43
4:X:1149:THR:HB	4:X:1162:ALA:CB	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:202:THR:HG22	4:Y:392:ASP:OD1	2.18	0.43
4:Y:314:SER:OG	4:Y:1198:ASN:ND2	2.51	0.43
4:Y:452:ARG:C	4:Y:950:VAL:HG21	2.43	0.43
4:Y:574:PRO:HB2	4:Y:679:TRP:CZ2	2.53	0.43
4:Y:618:PRO:HB2	4:Y:941:TYR:CB	2.48	0.43
4:Y:705:ILE:HG21	4:Y:733:MET:O	2.17	0.43
4:Y:781:THR:O	4:Y:807:PHE:HB3	2.18	0.43
4:Y:790:PRO:O	4:Y:791:ALA:C	2.60	0.43
4:Y:1001:ALA:O	4:Y:1002:PRO:C	2.61	0.43
4:Y:1072:THR:CG2	4:Y:1073:ARG:N	2.81	0.43
4:Y:1149:THR:HG23	4:Y:1162:ALA:HB3	2.00	0.43
5:A:649:MYR:H42	1:B:187:LEU:HD22	2.00	0.43
1:B:46:LYS:O	1:B:48:TRP:CD1	2.71	0.43
1:B:193:ILE:O	1:B:194:LEU:C	2.61	0.43
1:B:322:TYR:O	1:B:323:SER:HB3	2.17	0.43
1:B:330:GLN:HB2	1:B:457:PRO:HG3	1.99	0.43
1:B:456:ASN:ND2	1:B:458:THR:HG22	2.33	0.43
1:C:23:THR:C	1:C:25:ASP:H	2.26	0.43
5:C:649:MYR:H42	1:D:187:LEU:HD22	2.00	0.43
1:D:79:ARG:NH1	1:D:79:ARG:CB	2.81	0.43
1:D:96:PHE:CE1	1:D:159:TRP:HH2	2.37	0.43
1:D:208:TYR:CE2	1:D:212:ILE:HD11	2.53	0.43
1:D:298:PHE:CE1	1:H:355:GLY:HA2	2.47	0.43
1:D:345:ILE:HG23	1:D:475:THR:HG1	1.82	0.43
1:D:369:SER:CB	1:D:446:PRO:HD3	2.47	0.43
1:D:371:PRO:HG3	1:D:407:LEU:HD23	1.99	0.43
1:F:183:TRP:NE1	1:F:187:LEU:CD1	2.81	0.43
1:H:397:VAL:O	1:H:398:SER:HB2	2.18	0.43
1:J:357:ILE:CG2	1:J:358:LEU:N	2.80	0.43
1:K:24:SER:CB	1:L:176:ALA:N	2.80	0.43
1:L:92:TRP:CZ2	1:L:160:GLN:CB	3.01	0.43
1:L:193:ILE:O	1:L:194:LEU:C	2.61	0.43
1:L:390:ASN:HD22	1:L:390:ASN:HA	1.60	0.43
1:L:533:ASP:CG	1:L:536:THR:HG23	2.42	0.43
1:L:562:TYR:HA	1:L:565:LEU:HB2	1.99	0.43
1:M:18:ASN:O	1:M:19:SER:HB3	2.18	0.43
1:M:23:THR:C	1:M:25:ASP:N	2.75	0.43
1:N:183:TRP:NE1	1:N:187:LEU:CD1	2.81	0.43
1:P:79:ARG:NH1	1:P:79:ARG:CB	2.81	0.43
1:P:101:THR:HG23	1:P:102:GLY:N	2.33	0.43
1:P:183:TRP:NE1	1:P:187:LEU:CD1	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:362:THR:O	1:P:364:PRO:HD3	2.18	0.43
1:P:397:VAL:O	1:P:398:SER:HB2	2.18	0.43
1:P:530:ARG:HH21	1:T:472:ARG:HH22	1.66	0.43
1:P:582:LEU:HD23	1:P:585:GLN:HE22	1.83	0.43
1:P:603:GLY:C	1:P:605:GLY:N	2.75	0.43
1:R:79:ARG:NH1	1:R:79:ARG:CB	2.81	0.43
1:R:183:TRP:CE2	1:R:187:LEU:CD1	3.00	0.43
1:R:336:THR:CG2	1:R:456:ASN:ND2	2.79	0.43
1:R:345:ILE:HG23	1:R:475:THR:HG1	1.82	0.43
1:R:346:ASP:HB3	1:R:427:GLU:HA	1.99	0.43
1:T:183:TRP:NE1	1:T:187:LEU:CD1	2.81	0.43
1:T:345:ILE:HD12	1:T:468:PRO:HB3	1.99	0.43
1:T:397:VAL:O	1:T:398:SER:HB2	2.18	0.43
2:U:10:THR:HG23	2:U:73:GLY:CA	2.47	0.43
2:U:249:LYS:HD2	4:X:376:LEU:HG	1.99	0.43
2:V:31:GLY:H	4:X:1025:ASN:CB	2.31	0.43
2:V:131:ASN:O	2:V:135:MET:HG2	2.18	0.43
3:W:286:ASP:OD1	3:W:286:ASP:C	2.61	0.43
3:W:461:PRO:O	3:W:464:TYR:HB2	2.17	0.43
3:W:579:TYR:HA	3:W:617:VAL:HB	1.99	0.43
3:W:1040:VAL:C	3:W:1042:THR:H	2.27	0.43
3:W:1071:ILE:HD11	3:W:1100:PHE:CE1	2.54	0.43
4:X:200:LEU:HD13	4:X:343:ALA:CB	2.48	0.43
4:X:302:LEU:C	4:X:302:LEU:CD2	2.91	0.43
4:X:388:MET:HE3	4:X:388:MET:HB3	1.70	0.43
4:X:557:ILE:HB	4:X:592:LEU:HD21	2.00	0.43
4:X:902:MET:HE3	4:X:929:PRO:CG	2.45	0.43
4:X:1031:LEU:N	4:X:1039:ARG:O	2.48	0.43
4:Y:272:HIS:ND1	4:Y:273:ALA:N	2.66	0.43
4:Y:350:LEU:C	4:Y:352:THR:H	2.25	0.43
4:Y:358:GLN:O	4:Y:361:SER:HB3	2.18	0.43
4:Y:421:ASN:OD1	4:Y:429:ASN:HA	2.17	0.43
4:Y:606:MET:CE	4:Y:610:THR:HG21	2.44	0.43
4:Y:607:HIS:C	4:Y:609:THR:N	2.76	0.43
4:Y:828:GLU:O	4:Y:829:THR:C	2.61	0.43
4:Y:996:MET:HB2	4:Y:1143:ASN:HB3	2.01	0.43
4:Y:1095:ASP:OD1	4:Y:1098:PRO:HD3	2.18	0.43
1:A:23:THR:C	1:A:25:ASP:N	2.75	0.43
1:B:183:TRP:CE2	1:B:187:LEU:CD1	3.01	0.43
1:D:107:VAL:HG21	1:F:128:ASP:OD2	2.18	0.43
1:D:345:ILE:HD12	1:D:468:PRO:HB3	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:355:GLY:CA	1:F:298:PHE:CZ	2.80	0.43
1:D:431:ILE:O	1:D:431:ILE:HG23	2.10	0.43
1:F:79:ARG:NH1	1:F:79:ARG:CB	2.81	0.43
1:J:345:ILE:O	1:J:347:SER:N	2.52	0.43
1:L:79:ARG:NH1	1:L:79:ARG:CB	2.81	0.43
1:L:95:LEU:HD12	1:L:95:LEU:HA	1.71	0.43
1:L:183:TRP:NE1	1:L:187:LEU:CD1	2.81	0.43
1:N:92:TRP:CZ2	1:N:160:GLN:CB	3.01	0.43
1:N:336:THR:CG2	1:N:456:ASN:ND2	2.79	0.43
1:N:345:ILE:O	1:N:347:SER:N	2.52	0.43
1:N:357:ILE:CG2	1:N:358:LEU:N	2.80	0.43
1:N:401:GLY:O	1:N:402:ALA:CB	2.66	0.43
1:N:600:LEU:HG	1:N:601:THR:N	2.31	0.43
1:P:58:ILE:O	1:P:58:ILE:HG22	2.19	0.43
1:P:257:SER:C	1:P:259:LEU:N	2.74	0.43
1:P:412:ARG:CA	1:R:455:SER:O	2.66	0.43
1:P:418:ASN:CG	1:R:337:ARG:NH2	2.74	0.43
1:T:170:LEU:O	1:T:171:THR:C	2.60	0.43
1:T:203:TYR:HB3	1:T:206:GLU:CB	2.39	0.43
2:U:192:PHE:CZ	2:U:204:MET:HB3	2.53	0.43
2:V:204:MET:HA	2:V:207:THR:HG22	1.98	0.43
3:W:445:ILE:HB	3:W:642:LEU:HD22	2.00	0.43
3:W:512:THR:O	3:W:513:SER:HB2	2.18	0.43
3:W:577:LEU:C	3:W:577:LEU:CD2	2.91	0.43
3:W:722:ASP:O	3:W:723:ALA:HB3	2.16	0.43
3:W:765:PHE:CZ	3:W:999:PRO:O	2.71	0.43
4:X:263:LEU:HB3	4:X:976:ASN:ND2	2.34	0.43
4:X:463:SER:C	4:X:465:ASN:N	2.76	0.43
4:X:592:LEU:HD23	4:X:592:LEU:C	2.44	0.43
4:X:878:GLY:O	4:X:879:PHE:C	2.61	0.43
4:X:907:ASP:O	4:X:908:ALA:C	2.61	0.43
4:X:1072:THR:O	4:X:1074:VAL:HG12	2.18	0.43
4:Y:31:ASN:HB2	4:Y:47:ASN:OD1	2.17	0.43
4:Y:264:PRO:HB2	4:Y:268:ASP:HB2	1.99	0.43
4:Y:416:ILE:HD12	4:Y:851:PHE:CZ	2.53	0.43
4:Y:672:SER:O	4:Y:674:ARG:HB3	2.18	0.43
4:Y:741:THR:OG1	4:Y:743:THR:HG23	2.17	0.43
1:B:92:TRP:CZ2	1:B:160:GLN:CB	3.01	0.43
1:B:183:TRP:NE1	1:B:187:LEU:CD1	2.81	0.43
1:B:199:LEU:CD1	1:B:203:TYR:CE2	3.01	0.43
1:B:199:LEU:HB3	1:B:207:PHE:CE2	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:644:LEU:N	1:B:644:LEU:HD23	2.32	0.43
1:D:183:TRP:CE2	1:D:187:LEU:CD1	3.01	0.43
1:D:281:PRO:CD	1:F:622:GLU:OE1	2.62	0.43
1:D:310:PHE:CD1	1:D:382:ILE:HG13	2.54	0.43
1:E:9:ASN:HD21	1:F:206:GLU:HG3	1.83	0.43
1:F:562:TYR:HA	1:F:565:LEU:HB2	1.99	0.43
1:H:154:ARG:NH1	1:H:154:ARG:CB	2.68	0.43
1:H:199:LEU:CD1	1:H:203:TYR:CE2	3.01	0.43
1:H:345:ILE:O	1:H:347:SER:N	2.52	0.43
1:J:49:ARG:CZ	2:V:405:ALA:CB	2.97	0.43
1:J:183:TRP:NE1	1:J:187:LEU:CD1	2.81	0.43
1:L:135:VAL:HG13	1:L:135:VAL:O	2.19	0.43
1:L:427:GLU:HB2	1:L:430:THR:CG2	2.49	0.43
1:L:588:ILE:HG22	1:L:591:LEU:HB2	2.00	0.43
1:N:101:THR:HG23	1:N:102:GLY:N	2.34	0.43
1:N:136:PHE:CD2	1:N:136:PHE:N	2.87	0.43
1:N:371:PRO:HG3	1:N:407:LEU:HD23	1.99	0.43
1:P:262:ALA:CB	1:P:608:LEU:HD13	2.47	0.43
1:P:491:ALA:HB2	1:P:592:THR:CG2	2.48	0.43
1:P:567:ARG:NH1	1:P:567:ARG:HB2	2.33	0.43
1:R:491:ALA:HB2	1:R:592:THR:CG2	2.48	0.43
1:S:18:ASN:O	1:S:19:SER:HB3	2.18	0.43
1:T:540:VAL:HG21	1:T:566:TRP:HA	2.00	0.43
2:U:4:ARG:HH12	3:W:217:LEU:CG	2.32	0.43
2:U:54:TRP:O	2:U:59:PRO:HA	2.17	0.43
2:U:83:GLN:H	2:U:83:GLN:HG3	1.52	0.43
2:U:92:TRP:HA	2:U:99:SER:O	2.18	0.43
2:U:265:SER:HA	2:U:323:VAL:HG12	2.01	0.43
3:W:28:ASP:HB3	3:W:109:ALA:HB1	2.00	0.43
3:W:219:ASN:HD21	4:X:674:ARG:HH12	1.66	0.43
3:W:350:PHE:CE1	3:W:378:PRO:HD3	2.52	0.43
3:W:577:LEU:HD23	3:W:579:TYR:N	2.30	0.43
3:W:779:MET:HE2	3:W:779:MET:CA	2.47	0.43
3:W:1012:ASP:O	3:W:1013:ILE:C	2.61	0.43
4:X:234:PRO:HG2	4:X:360:LEU:HD11	2.00	0.43
4:X:263:LEU:N	4:X:263:LEU:CD2	2.81	0.43
4:X:265:PRO:O	4:X:268:ASP:HB2	2.18	0.43
4:X:393:ALA:CB	4:X:1184:LEU:HD13	2.48	0.43
4:X:401:THR:HG21	4:X:960:ALA:HB2	1.99	0.43
4:X:413:PRO:HA	4:X:416:ILE:CG1	2.49	0.43
4:X:603:VAL:HB	4:X:604:PRO:HD2	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:930:ARG:NH2	4:Y:692:THR:HG21	2.32	0.43
4:X:1072:THR:HG23	4:X:1072:THR:O	2.17	0.43
4:Y:462:ILE:O	4:Y:465:ASN:HB3	2.17	0.43
4:Y:742:MET:HG3	4:Y:742:MET:O	2.18	0.43
4:Y:1064:TRP:HB3	4:Y:1065:PRO:HD3	1.99	0.43
4:Y:1089:ASP:C	4:Y:1091:GLN:H	2.26	0.43
4:Y:1090:PRO:HB3	4:Y:1158:PHE:HE1	1.83	0.43
1:B:369:SER:CB	1:B:446:PRO:HD3	2.47	0.43
1:D:106:ILE:CD1	1:D:152:ARG:HG3	2.45	0.43
1:D:128:ASP:OD2	1:H:107:VAL:HG21	2.18	0.43
1:D:456:ASN:ND2	1:D:458:THR:HG22	2.33	0.43
1:D:582:LEU:HD23	1:D:585:GLN:HE22	1.83	0.43
1:F:257:SER:C	1:F:259:LEU:N	2.74	0.43
1:F:322:TYR:O	1:F:323:SER:HB3	2.17	0.43
1:H:341:MET:HB2	1:H:437:ILE:CG2	2.35	0.43
1:I:23:THR:C	1:I:25:ASP:N	2.75	0.43
1:J:193:ILE:O	1:J:194:LEU:C	2.61	0.43
1:J:292:ARG:HG2	1:J:292:ARG:NH1	2.32	0.43
1:J:343:ALA:CB	1:J:478:GLY:O	2.62	0.43
1:J:540:VAL:HG21	1:J:566:TRP:HA	2.00	0.43
1:J:588:ILE:HG22	1:J:591:LEU:HB2	2.00	0.43
1:L:336:THR:CG2	1:L:456:ASN:ND2	2.79	0.43
1:L:442:THR:OG1	1:L:443:PHE:N	2.50	0.43
1:L:582:LEU:O	1:L:584:LEU:N	2.51	0.43
1:M:13:ILE:CD1	5:M:649:MYR:H111	2.46	0.43
1:N:193:ILE:O	1:N:194:LEU:C	2.61	0.43
1:N:343:ALA:CB	1:N:478:GLY:O	2.62	0.43
1:N:427:GLU:HB2	1:N:430:THR:CG2	2.49	0.43
1:N:603:GLY:C	1:N:605:GLY:N	2.75	0.43
1:P:96:PHE:CE1	1:P:159:TRP:HH2	2.36	0.43
1:P:107:VAL:HG21	1:R:128:ASP:OD2	2.18	0.43
1:P:237:GLU:CG	1:R:46:LYS:HZ1	2.31	0.43
1:R:565:LEU:N	1:R:565:LEU:HD23	2.34	0.43
1:S:23:THR:C	1:S:25:ASP:H	2.26	0.43
1:T:310:PHE:CD1	1:T:382:ILE:HG13	2.54	0.43
1:T:533:ASP:CG	1:T:536:THR:HG23	2.42	0.43
2:U:161:VAL:HG23	2:U:263:GLN:HB2	1.99	0.43
2:V:40:ARG:HH21	2:V:65:ASN:HB3	1.84	0.43
3:W:617:VAL:HG13	3:W:658:VAL:CG1	2.47	0.43
3:W:1241:LEU:HD13	3:W:1260:LEU:HB3	2.01	0.43
4:X:242:ARG:HE	4:X:1085:LEU:CD1	2.30	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:371:LEU:HD11	4:X:388:MET:HG2	2.01	0.43
4:X:653:PRO:HD3	4:X:773:ARG:CB	2.49	0.43
4:X:894:THR:O	4:X:895:SER:C	2.62	0.43
4:X:964:VAL:O	4:X:968:PHE:N	2.48	0.43
4:X:992:ASN:C	4:X:992:ASN:ND2	2.75	0.43
4:X:1035:GLY:O	4:X:1036:ASN:HB3	2.19	0.43
4:X:1060:ARG:HA	4:X:1064:TRP:HB2	1.99	0.43
4:X:1083:TYR:O	4:X:1083:TYR:CG	2.71	0.43
4:Y:106:MET:O	4:Y:106:MET:HG2	2.18	0.43
4:Y:188:ALA:HB1	4:Y:856:ARG:CD	2.48	0.43
4:Y:269:SER:HB2	4:Y:271:VAL:HG12	2.00	0.43
4:Y:913:PHE:O	4:Y:915:LEU:HD13	2.18	0.43
4:Y:1016:ARG:C	4:Y:1018:GLY:H	2.25	0.43
4:Y:1031:LEU:HD12	4:Y:1032:ILE:H	1.83	0.43
4:Y:1107:ILE:HG12	4:Y:1113:PRO:HD2	1.99	0.43
1:A:23:THR:C	1:A:25:ASP:H	2.26	0.43
1:B:141:GLN:HE22	1:B:144:ASN:ND2	2.15	0.43
1:B:603:GLY:C	1:B:605:GLY:N	2.75	0.43
1:D:92:TRP:CZ2	1:D:160:GLN:CB	3.01	0.43
1:D:337:ARG:NH2	1:H:418:ASN:CG	2.74	0.43
1:D:362:THR:O	1:D:364:PRO:HD3	2.18	0.43
1:D:609:ARG:O	1:E:29:THR:HA	2.19	0.43
1:F:67:ARG:HH11	1:F:67:ARG:CG	2.29	0.43
1:F:92:TRP:CZ2	1:F:160:GLN:CB	3.01	0.43
1:F:199:LEU:CD1	1:F:203:TYR:CE2	3.01	0.43
1:F:208:TYR:CE2	1:F:212:ILE:HD11	2.53	0.43
1:F:293:SER:HB3	1:F:465:THR:HG23	2.01	0.43
1:F:588:ILE:HA	1:F:588:ILE:HD13	1.80	0.43
1:H:330:GLN:HB2	1:H:457:PRO:HG3	1.99	0.43
1:H:330:GLN:O	1:H:331:LEU:HB2	2.17	0.43
1:H:362:THR:O	1:H:364:PRO:HD3	2.18	0.43
1:H:401:GLY:O	1:H:402:ALA:CB	2.66	0.43
1:H:456:ASN:ND2	1:H:458:THR:HG22	2.33	0.43
1:H:551:GLN:NE2	1:H:558:THR:HB	2.34	0.43
1:J:203:TYR:N	1:J:204:PRO:HD2	2.34	0.43
1:J:551:GLN:NE2	1:J:558:THR:HB	2.34	0.43
1:J:609:ARG:O	1:K:29:THR:HA	2.19	0.43
1:L:96:PHE:CE1	1:L:159:TRP:HH2	2.37	0.43
1:L:345:ILE:O	1:L:347:SER:N	2.52	0.43
1:O:24:SER:CB	1:P:176:ALA:N	2.80	0.43
1:P:92:TRP:CZ2	1:P:160:GLN:CB	3.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:199:LEU:CD1	1:P:203:TYR:CE2	3.01	0.43
1:P:540:VAL:HG21	1:P:566:TRP:HA	2.00	0.43
1:Q:23:THR:C	1:Q:25:ASP:H	2.26	0.43
1:R:96:PHE:CE1	1:R:159:TRP:HH2	2.37	0.43
1:R:397:VAL:O	1:R:398:SER:HB2	2.18	0.43
1:T:262:ALA:CB	1:T:608:LEU:HD13	2.47	0.43
1:T:603:GLY:C	1:T:605:GLY:N	2.75	0.43
2:U:348:THR:HG22	2:U:350:ALA:H	1.83	0.43
3:W:173:ALA:HB3	3:W:202:ALA:HB3	2.00	0.43
3:W:194:TYR:HB2	3:W:196:LYS:HD3	2.01	0.43
3:W:335:SER:CA	3:W:752:ASN:O	2.64	0.43
3:W:405:ARG:HB3	3:W:779:MET:HB2	2.00	0.43
3:W:715:LEU:HB3	3:W:718:PRO:HB3	2.00	0.43
3:W:934:ASN:ND2	3:W:934:ASN:N	2.58	0.43
3:W:996:ASP:O	3:W:999:PRO:HD2	2.18	0.43
3:W:1052:ILE:HD11	3:W:1110:VAL:HG11	2.00	0.43
4:X:248:ASN:HD22	4:X:260:GLU:CD	2.26	0.43
4:X:747:ILE:O	4:X:747:ILE:CG2	2.62	0.43
4:X:1068:LYS:C	4:X:1070:GLY:H	2.27	0.43
4:X:1189:THR:C	4:X:1191:TYR:H	2.27	0.43
4:Y:134:GLU:CD	4:Y:134:GLU:N	2.76	0.43
4:Y:200:LEU:HB2	4:Y:250:ALA:CB	2.47	0.43
4:Y:207:LEU:HD23	4:Y:207:LEU:C	2.44	0.43
4:Y:607:HIS:O	4:Y:610:THR:N	2.49	0.43
4:Y:893:VAL:HG13	4:Y:897:ALA:CB	2.48	0.43
4:Y:1172:LEU:HB2	4:Y:1191:TYR:CD2	2.53	0.43
1:A:9:ASN:HD21	1:B:206:GLU:CG	2.32	0.43
1:B:565:LEU:N	1:B:565:LEU:HD23	2.34	0.43
1:B:588:ILE:HG22	1:B:591:LEU:HB2	2.00	0.43
1:D:100:LYS:HZ3	1:L:147:ARG:HH12	1.67	0.43
1:D:101:THR:HG23	1:D:102:GLY:N	2.33	0.43
1:D:193:ILE:O	1:D:194:LEU:C	2.61	0.43
1:D:540:VAL:HG21	1:D:566:TRP:HA	2.00	0.43
1:F:107:VAL:HG21	1:H:128:ASP:OD2	2.18	0.43
1:F:135:VAL:HG13	1:F:135:VAL:O	2.19	0.43
1:F:256:SER:OG	1:F:257:SER:N	2.51	0.43
1:F:412:ARG:CA	1:H:455:SER:O	2.66	0.43
1:F:420:LEU:HD11	1:F:422:LEU:CD2	2.49	0.43
1:F:567:ARG:NH1	1:F:567:ARG:HB2	2.33	0.43
1:H:135:VAL:O	1:H:135:VAL:HG13	2.19	0.43
1:J:107:VAL:HG21	1:L:128:ASP:OD2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:136:PHE:N	1:J:136:PHE:CD2	2.87	0.43
1:J:310:PHE:CD1	1:J:382:ILE:HG13	2.54	0.43
1:J:397:VAL:O	1:J:398:SER:HB2	2.18	0.43
1:J:567:ARG:NH1	1:J:567:ARG:HB2	2.33	0.43
1:J:599:ALA:O	1:J:600:LEU:C	2.60	0.43
1:L:199:LEU:CD1	1:L:203:TYR:CE2	3.01	0.43
1:L:551:GLN:NE2	1:L:558:THR:HB	2.34	0.43
1:L:609:ARG:CD	1:M:29:THR:HG21	2.47	0.43
1:N:135:VAL:HG13	1:N:135:VAL:O	2.19	0.43
1:N:397:VAL:O	1:N:398:SER:HB2	2.18	0.43
1:N:463:LEU:HD23	1:N:463:LEU:C	2.44	0.43
1:P:203:TYR:HB3	1:P:206:GLU:CB	2.39	0.43
1:P:292:ARG:HG2	1:P:292:ARG:NH1	2.32	0.43
1:P:330:GLN:HB2	1:P:457:PRO:HG3	1.99	0.43
1:P:369:SER:CB	1:P:446:PRO:HD3	2.47	0.43
1:P:401:GLY:O	1:P:402:ALA:CB	2.66	0.43
1:P:471:LEU:HD23	1:P:471:LEU:N	2.32	0.43
1:Q:9:ASN:HD21	1:R:206:GLU:CG	2.32	0.43
1:Q:18:ASN:O	1:Q:19:SER:HB3	2.18	0.43
1:R:540:VAL:HG21	1:R:566:TRP:HA	2.00	0.43
1:R:564:LEU:CD2	1:R:568:ARG:NH2	2.75	0.43
1:T:96:PHE:CE1	1:T:159:TRP:HH2	2.37	0.43
1:T:456:ASN:ND2	1:T:458:THR:HG22	2.33	0.43
1:T:533:ASP:OD1	1:T:536:THR:HG23	2.18	0.43
1:T:588:ILE:HG22	1:T:591:LEU:HB2	2.00	0.43
2:U:26:LEU:CA	2:U:71:LEU:HD11	2.34	0.43
2:U:156:ILE:HD13	2:U:305:LEU:HD11	2.00	0.43
2:U:159:LEU:CD1	2:U:267:ILE:HD12	2.48	0.43
2:U:251:ASN:ND2	2:U:253:GLY:N	2.67	0.43
3:W:88:ILE:C	3:W:90:ASP:H	2.27	0.43
3:W:129:ARG:O	3:W:130:SER:C	2.62	0.43
3:W:213:ARG:HG2	3:W:217:LEU:CD2	2.49	0.43
3:W:316:GLN:OE1	3:W:316:GLN:CA	2.66	0.43
3:W:994:THR:HG23	3:W:1066:ASN:O	2.19	0.43
3:W:1063:VAL:CG2	3:W:1110:VAL:HG22	2.45	0.43
4:X:194:ILE:HG21	4:X:1201:TYR:CZ	2.53	0.43
4:X:617:HIS:ND1	4:X:619:GLY:N	2.60	0.43
4:X:694:ASP:O	4:X:695:SER:HB3	2.19	0.43
4:X:793:ARG:HH11	4:Y:693:TYR:HE2	1.57	0.43
4:X:862:GLU:O	4:X:863:ALA:C	2.62	0.43
4:Y:49:GLN:CG	4:Y:50:GLN:N	2.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:404:MET:HG2	4:Y:956:HIS:CE1	2.53	0.43
4:Y:832:ILE:O	4:Y:833:PRO:C	2.60	0.43
4:Y:838:GLY:HA3	4:Y:1210:VAL:HG23	2.00	0.43
1:B:341:MET:CE	1:B:341:MET:CA	2.88	0.43
1:B:463:LEU:HD23	1:B:463:LEU:C	2.44	0.43
1:C:18:ASN:O	1:C:19:SER:HB3	2.18	0.43
1:D:154:ARG:O	1:D:155:ASP:C	2.62	0.43
1:F:48:TRP:CE2	1:F:63:ILE:CD1	3.02	0.43
1:H:96:PHE:CE1	1:H:159:TRP:HH2	2.37	0.43
1:H:101:THR:HG23	1:H:102:GLY:N	2.34	0.43
1:H:370:VAL:O	1:H:370:VAL:CG2	2.67	0.43
1:H:387:THR:O	1:H:390:ASN:HB2	2.18	0.43
1:H:420:LEU:HD11	1:H:422:LEU:CD2	2.49	0.43
1:H:463:LEU:HD23	1:H:463:LEU:C	2.44	0.43
1:I:23:THR:C	1:I:25:ASP:H	2.26	0.43
5:I:649:MYR:H42	1:J:187:LEU:HD22	2.00	0.43
1:J:46:LYS:O	1:J:48:TRP:CD1	2.71	0.43
1:J:128:ASP:OD2	1:N:107:VAL:HG21	2.18	0.43
1:L:203:TYR:N	1:L:204:PRO:HD2	2.34	0.43
1:L:352:ASP:OD1	1:L:352:ASP:C	2.62	0.43
1:L:567:ARG:HB2	1:L:567:ARG:NH1	2.33	0.43
1:N:203:TYR:N	1:N:204:PRO:HD2	2.34	0.43
1:N:420:LEU:HD11	1:N:422:LEU:CD2	2.49	0.43
1:N:456:ASN:C	1:N:456:ASN:ND2	2.76	0.43
1:P:345:ILE:O	1:P:347:SER:N	2.52	0.43
1:P:387:THR:O	1:P:390:ASN:HB2	2.18	0.43
1:P:463:LEU:HD23	1:P:463:LEU:C	2.44	0.43
1:P:551:GLN:NE2	1:P:558:THR:HB	2.34	0.43
1:P:565:LEU:N	1:P:565:LEU:HD23	2.34	0.43
1:R:101:THR:HG23	1:R:102:GLY:N	2.34	0.43
1:R:107:VAL:HG21	1:T:128:ASP:OD2	2.18	0.43
1:R:266:MET:HG2	1:R:520:VAL:HG11	2.01	0.43
1:R:332:GLY:HA3	1:R:456:ASN:HA	2.01	0.43
1:R:362:THR:O	1:R:364:PRO:HD3	2.18	0.43
1:R:456:ASN:ND2	1:R:458:THR:HG22	2.33	0.43
1:T:48:TRP:CE2	1:T:63:ILE:CD1	3.02	0.43
1:T:318:LYS:HG3	1:T:319:THR:H	1.84	0.43
1:T:332:GLY:HA3	1:T:456:ASN:HA	2.01	0.43
1:T:341:MET:CG	1:T:431:ILE:HD11	2.49	0.43
1:T:428:ARG:HH11	1:T:428:ARG:CG	2.16	0.43
2:U:225:ARG:HG3	2:U:225:ARG:NH1	2.32	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:U:225:ARG:HA	2:U:233:TYR:CE1	2.54	0.43
2:V:178:THR:OG1	4:Y:407:ARG:CB	2.66	0.43
3:W:1255:ASN:O	3:W:1257:PHE:N	2.51	0.43
4:X:359:PHE:O	4:X:360:LEU:C	2.60	0.43
4:X:670:ILE:HG22	4:X:671:PRO:HD2	2.00	0.43
4:X:707:PHE:O	4:X:710:ARG:HB3	2.19	0.43
4:Y:81:ARG:HD2	4:Y:85:ASP:OD1	2.19	0.43
4:Y:257:ARG:H	4:Y:257:ARG:HG2	1.61	0.43
4:Y:259:LEU:O	4:Y:307:SER:HB2	2.18	0.43
4:Y:497:ILE:HG23	4:Y:498:THR:H	1.83	0.43
4:Y:497:ILE:O	4:Y:500:ILE:HD12	2.19	0.43
4:Y:543:THR:O	4:Y:576:THR:HB	2.19	0.43
4:Y:547:GLU:OE1	4:Y:547:GLU:CA	2.66	0.43
4:Y:865:VAL:CG2	4:Y:952:PRO:HB2	2.49	0.43
4:Y:919:LEU:CD2	4:Y:920:LEU:N	2.82	0.43
4:Y:1095:ASP:OD1	4:Y:1097:ALA:N	2.51	0.43
4:Y:1156:THR:CG2	4:Y:1161:ASN:CB	2.96	0.43
1:B:203:TYR:N	1:B:204:PRO:HD2	2.34	0.43
1:B:401:GLY:O	1:B:402:ALA:CB	2.66	0.43
1:B:433:GLY:O	1:B:435:PRO:CD	2.67	0.43
1:B:540:VAL:HG21	1:B:566:TRP:HA	2.00	0.43
5:C:649:MYR:H21	1:D:191:LYS:NZ	2.30	0.43
1:D:96:PHE:CD1	1:D:101:THR:HG23	2.44	0.43
1:D:588:ILE:HG22	1:D:591:LEU:HB2	2.00	0.43
1:D:603:GLY:C	1:D:605:GLY:N	2.75	0.43
1:F:62:ALA:O	1:F:63:ILE:C	2.62	0.43
1:F:588:ILE:HG22	1:F:591:LEU:HB2	2.00	0.43
1:H:136:PHE:CD2	1:H:136:PHE:N	2.87	0.43
1:H:322:TYR:O	1:H:323:SER:HB3	2.17	0.43
1:H:411:VAL:O	1:H:411:VAL:CG1	2.61	0.43
1:H:427:GLU:HB2	1:H:430:THR:CG2	2.49	0.43
1:H:517:LEU:HD13	1:H:517:LEU:C	2.44	0.43
1:I:18:ASN:O	1:I:19:SER:HB3	2.18	0.43
1:J:199:LEU:CD1	1:J:203:TYR:CE2	3.01	0.43
1:J:256:SER:OG	1:J:257:SER:N	2.51	0.43
1:J:266:MET:HG2	1:J:520:VAL:HG11	2.01	0.43
1:J:431:ILE:O	1:J:431:ILE:HG23	2.10	0.43
1:K:9:ASN:HD21	1:L:206:GLU:CG	2.32	0.43
1:L:266:MET:HG2	1:L:520:VAL:HG11	2.01	0.43
1:L:362:THR:O	1:L:364:PRO:HD3	2.18	0.43
1:L:397:VAL:O	1:L:398:SER:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:456:ASN:ND2	1:L:458:THR:HG22	2.33	0.43
1:N:318:LYS:HG3	1:N:319:THR:H	1.84	0.43
1:N:456:ASN:ND2	1:N:458:THR:HG22	2.33	0.43
1:P:271:LEU:HD12	1:P:271:LEU:HA	1.79	0.43
1:P:420:LEU:HD11	1:P:422:LEU:CD2	2.49	0.43
1:P:433:GLY:O	1:P:435:PRO:CD	2.67	0.43
1:P:590:VAL:O	1:P:592:THR:N	2.52	0.43
1:R:215:TYR:C	1:R:217:ALA:N	2.70	0.43
1:R:600:LEU:O	1:R:601:THR:C	2.60	0.43
1:T:144:ASN:O	1:T:145:LEU:C	2.62	0.43
1:T:203:TYR:N	1:T:204:PRO:HD2	2.34	0.43
1:T:428:ARG:NH1	1:T:428:ARG:CG	2.76	0.43
1:T:582:LEU:O	1:T:584:LEU:N	2.51	0.43
1:T:590:VAL:O	1:T:592:THR:N	2.52	0.43
2:U:8:GLY:HA2	2:U:146:THR:OG1	2.19	0.43
2:U:60:SER:OG	2:U:275:GLN:O	2.37	0.43
3:W:23:LEU:C	3:W:23:LEU:CD2	2.91	0.43
3:W:135:LEU:CD2	3:W:138:LEU:HD12	2.49	0.43
3:W:517:ALA:HB2	3:W:575:PHE:CE2	2.52	0.43
3:W:578:VAL:HG23	3:W:610:THR:HG22	2.01	0.43
3:W:661:GLY:O	3:W:663:GLN:N	2.45	0.43
3:W:695:ILE:HA	3:W:696:PRO:HD3	1.79	0.43
3:W:771:ARG:O	3:W:774:LEU:HB2	2.18	0.43
3:W:910:LEU:HD13	3:W:910:LEU:O	2.19	0.43
3:W:1165:VAL:HG11	3:W:1181:ALA:HB3	2.01	0.43
3:W:1204:LEU:HD23	3:W:1204:LEU:H	1.84	0.43
4:X:242:ARG:HH12	4:X:1146:LEU:CD1	2.32	0.43
4:X:252:LEU:O	4:X:253:GLY:C	2.61	0.43
4:X:390:LEU:C	4:X:390:LEU:HD23	2.44	0.43
4:X:509:SER:O	4:X:510:PRO:C	2.62	0.43
4:X:590:ALA:HB1	4:X:599:ILE:CD1	2.49	0.43
4:X:757:VAL:CG1	4:X:845:PHE:HE1	2.26	0.43
4:X:904:ALA:O	4:X:907:ASP:HB2	2.18	0.43
4:Y:33:PRO:HA	4:Y:34:PRO:HD3	1.86	0.43
4:Y:399:ARG:C	4:Y:401:THR:N	2.75	0.43
4:Y:403:ILE:CG2	4:Y:404:MET:N	2.82	0.43
4:Y:1089:ASP:C	4:Y:1091:GLN:N	2.75	0.43
4:Y:1182:ASN:HB3	4:Y:1183:ASP:H	1.41	0.43
1:A:18:ASN:O	1:A:19:SER:HB3	2.18	0.43
1:B:96:PHE:CE1	1:B:159:TRP:HH2	2.37	0.43
1:B:101:THR:HG23	1:B:102:GLY:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:256:SER:OG	1:B:257:SER:N	2.51	0.43
1:B:318:LYS:HG3	1:B:319:THR:H	1.84	0.43
1:B:332:GLY:HA3	1:B:456:ASN:HA	2.01	0.43
1:D:46:LYS:HD3	1:D:70:GLN:OE1	2.19	0.43
1:D:199:LEU:CD1	1:D:203:TYR:CE2	3.01	0.43
1:D:336:THR:CG2	1:D:456:ASN:ND2	2.79	0.43
1:D:412:ARG:CA	1:F:455:SER:O	2.66	0.43
1:D:556:SER:N	1:D:557:PRO:CD	2.82	0.43
1:F:310:PHE:CD1	1:F:382:ILE:HG13	2.54	0.43
1:F:418:ASN:HD22	1:F:418:ASN:HA	1.50	0.43
1:F:463:LEU:HD23	1:F:463:LEU:C	2.44	0.43
1:F:551:GLN:NE2	1:F:558:THR:HB	2.34	0.43
1:F:590:VAL:O	1:F:592:THR:N	2.52	0.43
1:F:603:GLY:C	1:F:605:GLY:N	2.75	0.43
1:H:183:TRP:NE1	1:H:187:LEU:CD1	2.81	0.43
1:H:203:TYR:N	1:H:204:PRO:HD2	2.34	0.43
1:H:256:SER:OG	1:H:257:SER:N	2.51	0.43
1:H:259:LEU:HD23	1:H:259:LEU:HA	1.88	0.43
1:H:491:ALA:HB2	1:H:592:THR:CG2	2.48	0.43
1:H:588:ILE:HD13	1:H:588:ILE:HA	1.80	0.43
1:H:590:VAL:O	1:H:592:THR:N	2.52	0.43
1:J:135:VAL:O	1:J:135:VAL:HG13	2.19	0.43
1:J:332:GLY:HA3	1:J:456:ASN:HA	2.01	0.43
1:J:341:MET:CG	1:J:431:ILE:HD11	2.49	0.43
1:L:136:PHE:CD2	1:L:136:PHE:N	2.87	0.43
1:L:293:SER:HB3	1:L:465:THR:HG23	2.01	0.43
1:L:310:PHE:CD1	1:L:382:ILE:HG13	2.54	0.43
1:L:463:LEU:C	1:L:463:LEU:HD23	2.44	0.43
1:L:625:ARG:HG3	1:R:197:ASP:CG	2.42	0.43
1:N:96:PHE:CE1	1:N:159:TRP:HH2	2.37	0.43
1:N:199:LEU:CD1	1:N:203:TYR:CE2	3.01	0.43
1:N:433:GLY:O	1:N:435:PRO:CD	2.67	0.43
1:P:203:TYR:N	1:P:204:PRO:HD2	2.34	0.43
1:P:427:GLU:CD	1:R:571:ARG:HH22	2.20	0.43
1:R:135:VAL:O	1:R:135:VAL:HG13	2.19	0.43
1:R:144:ASN:O	1:R:145:LEU:C	2.62	0.43
1:R:345:ILE:O	1:R:347:SER:N	2.52	0.43
1:R:463:LEU:HD23	1:R:463:LEU:C	2.44	0.43
1:R:590:VAL:O	1:R:592:THR:N	2.52	0.43
1:S:13:ILE:CD1	5:S:649:MYR:H111	2.46	0.43
1:T:62:ALA:O	1:T:63:ILE:C	2.62	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:T:136:PHE:CD2	1:T:136:PHE:N	2.87	0.43
1:T:143:MET:O	1:T:146:GLN:HB3	2.19	0.43
1:T:154:ARG:O	1:T:155:ASP:C	2.62	0.43
1:T:343:ALA:CB	1:T:478:GLY:O	2.62	0.43
1:T:420:LEU:HD11	1:T:422:LEU:CD2	2.49	0.43
2:U:208:ILE:O	2:U:208:ILE:HG23	2.18	0.43
2:U:329:ASN:HB3	2:U:332:PRO:HD2	2.00	0.43
2:V:76:LEU:HD13	2:V:120:LEU:HD11	2.01	0.43
2:V:188:THR:CG2	4:Y:376:LEU:HD11	2.49	0.43
3:W:51:PRO:O	3:W:52:VAL:C	2.60	0.43
3:W:170:ARG:HH21	4:X:682:GLN:NE2	2.17	0.43
3:W:225:THR:CG2	3:W:226:VAL:N	2.81	0.43
3:W:950:ASP:HB3	3:W:955:VAL:CG1	2.48	0.43
3:W:959:ASN:CB	3:W:962:GLU:CD	2.92	0.43
4:X:288:PHE:CE1	4:X:293:LEU:HD13	2.54	0.43
4:X:407:ARG:O	4:X:409:MET:N	2.51	0.43
4:X:544:VAL:HG12	4:X:545:LEU:N	2.34	0.43
4:X:628:PRO:HB2	4:X:644:GLU:OE2	2.19	0.43
4:X:663:GLN:O	4:X:664:GLY:C	2.60	0.43
4:X:769:VAL:HG13	4:X:770:PRO:HD2	2.01	0.43
4:X:841:PHE:O	4:X:844:LEU:HD12	2.18	0.43
4:X:1150:ASN:ND2	4:X:1153:SER:CB	2.82	0.43
4:Y:191:PRO:CA	4:Y:915:LEU:HD11	2.49	0.43
4:Y:1153:SER:C	4:Y:1155:ASP:N	2.75	0.43
4:Y:1179:VAL:HG13	4:Y:1193:SER:OG	2.18	0.43
1:B:143:MET:O	1:B:146:GLN:HB3	2.19	0.42
1:B:154:ARG:O	1:B:155:ASP:C	2.62	0.42
1:B:257:SER:C	1:B:259:LEU:N	2.74	0.42
1:B:345:ILE:O	1:B:347:SER:N	2.52	0.42
1:B:427:GLU:HB2	1:B:430:THR:CG2	2.49	0.42
1:C:29:THR:HA	1:H:609:ARG:O	2.19	0.42
1:D:237:GLU:CB	1:F:46:LYS:NZ	2.67	0.42
1:D:238:VAL:HG21	1:F:78:MET:HE2	1.83	0.42
1:D:420:LEU:HD11	1:D:422:LEU:CD2	2.49	0.42
1:D:433:GLY:O	1:D:435:PRO:CD	2.67	0.42
1:F:163:LEU:HD11	1:F:211:ALA:HB2	2.01	0.42
1:H:62:ALA:O	1:H:63:ILE:C	2.62	0.42
1:H:73:PHE:CB	1:H:119:VAL:HG21	2.49	0.42
1:H:92:TRP:CZ2	1:H:160:GLN:CB	3.01	0.42
1:J:46:LYS:HD3	1:J:70:GLN:OE1	2.19	0.42
1:J:49:ARG:HG3	1:J:64:VAL:CG2	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:51:VAL:N	1:J:60:SER:O	2.38	0.42
1:L:564:LEU:CD2	1:L:568:ARG:NH2	2.75	0.42
1:N:48:TRP:CE2	1:N:63:ILE:CD1	3.02	0.42
1:N:266:MET:HG2	1:N:520:VAL:HG11	2.01	0.42
1:N:551:GLN:NE2	1:N:558:THR:HB	2.34	0.42
1:N:588:ILE:HG22	1:N:591:LEU:HB2	2.00	0.42
1:N:625:ARG:HH11	1:N:625:ARG:HG3	1.84	0.42
1:O:23:THR:C	1:O:25:ASP:N	2.75	0.42
1:O:27:THR:HG22	1:O:29:THR:HG23	2.01	0.42
1:P:259:LEU:HD23	1:P:259:LEU:HA	1.88	0.42
1:P:266:MET:HG2	1:P:520:VAL:HG11	2.01	0.42
1:P:609:ARG:O	1:Q:29:THR:HA	2.19	0.42
1:R:163:LEU:HD11	1:R:211:ALA:HB2	2.01	0.42
1:T:135:VAL:HG13	1:T:135:VAL:O	2.19	0.42
1:T:266:MET:HG2	1:T:520:VAL:HG11	2.01	0.42
1:T:293:SER:HB3	1:T:465:THR:HG23	2.01	0.42
1:T:551:GLN:NE2	1:T:558:THR:HB	2.34	0.42
2:U:32:CYS:O	2:U:33:TYR:HB2	2.18	0.42
2:U:53:VAL:HB	2:U:60:SER:C	2.43	0.42
2:U:156:ILE:HG12	2:U:268:ARG:HD3	1.99	0.42
2:V:191:ARG:NH1	4:Y:438:PRO:CG	2.80	0.42
2:V:211:LEU:HD11	2:V:248:LEU:HD22	2.00	0.42
3:W:91:ARG:NH2	3:W:125:PHE:CZ	2.87	0.42
3:W:141:ASP:OD1	3:W:142:PRO:HD2	2.19	0.42
3:W:168:SER:HA	3:W:206:TYR:O	2.19	0.42
3:W:243:GLN:HE21	3:W:243:GLN:H	1.67	0.42
3:W:405:ARG:HG2	3:W:406:ASN:H	1.84	0.42
3:W:662:ARG:O	3:W:662:ARG:CG	2.67	0.42
3:W:733:ALA:HB1	3:W:777:VAL:HG12	2.00	0.42
3:W:927:THR:OG1	3:W:928:ARG:HG2	2.19	0.42
3:W:1242:PRO:HD3	3:W:1296:TYR:OH	2.18	0.42
4:X:294:ARG:HB2	4:X:888:LEU:HB3	2.01	0.42
4:X:377:ILE:HD11	4:X:436:LEU:HD11	2.00	0.42
4:X:557:ILE:O	4:X:557:ILE:CG1	2.66	0.42
4:X:972:MET:O	4:X:973:ASN:C	2.62	0.42
4:X:1130:ALA:CA	4:Y:104:GLN:HB3	2.49	0.42
4:X:1167:LEU:HD13	4:X:1187:ARG:CZ	2.49	0.42
4:Y:188:ALA:HB1	4:Y:856:ARG:HD2	2.01	0.42
4:Y:305:THR:O	4:Y:306:LEU:C	2.62	0.42
1:A:27:THR:HG22	1:A:29:THR:HG23	2.02	0.42
1:B:551:GLN:NE2	1:B:558:THR:HB	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:582:LEU:HD23	1:B:585:GLN:HE22	1.83	0.42
1:D:183:TRP:NE1	1:D:187:LEU:CD1	2.81	0.42
1:D:355:GLY:HA2	1:F:298:PHE:CE1	2.47	0.42
1:D:387:THR:O	1:D:390:ASN:HB2	2.18	0.42
1:D:463:LEU:C	1:D:463:LEU:HD23	2.44	0.42
1:D:582:LEU:HD23	1:D:582:LEU:HA	1.69	0.42
1:G:18:ASN:O	1:G:19:SER:HB3	2.18	0.42
1:H:163:LEU:HD11	1:H:211:ALA:HB2	2.01	0.42
1:H:433:GLY:O	1:H:435:PRO:CD	2.67	0.42
1:J:101:THR:HG23	1:J:102:GLY:N	2.33	0.42
1:J:154:ARG:O	1:J:155:ASP:C	2.62	0.42
1:J:166:ALA:HB2	1:J:194:LEU:HD11	2.02	0.42
1:J:450:SER:CA	1:J:453:ASN:HD22	2.21	0.42
1:L:332:GLY:HA3	1:L:456:ASN:HA	2.01	0.42
1:L:365:ASP:HB2	1:L:451:SER:OG	2.20	0.42
1:L:433:GLY:O	1:L:435:PRO:CD	2.67	0.42
1:L:517:LEU:C	1:L:517:LEU:HD13	2.44	0.42
1:L:625:ARG:HG3	1:L:625:ARG:HH11	1.84	0.42
1:N:310:PHE:CD1	1:N:382:ILE:HG13	2.54	0.42
1:N:352:ASP:OD1	1:N:352:ASP:C	2.62	0.42
1:N:365:ASP:HB2	1:N:451:SER:OG	2.20	0.42
1:N:590:VAL:O	1:N:592:THR:N	2.52	0.42
5:O:649:MYR:H42	1:P:187:LEU:HD22	2.00	0.42
1:R:154:ARG:O	1:R:155:ASP:C	2.62	0.42
1:R:171:THR:HG21	1:R:634:LYS:NZ	2.35	0.42
1:R:433:GLY:O	1:R:435:PRO:CD	2.67	0.42
1:T:556:SER:N	1:T:557:PRO:CD	2.82	0.42
2:U:35:ARG:H	2:U:35:ARG:HG2	1.70	0.42
2:U:136:TRP:N	2:U:137:PRO:CD	2.82	0.42
2:U:363:ALA:O	2:U:367:GLU:HB2	2.19	0.42
3:W:192:ALA:HB1	3:W:333:VAL:HG21	2.00	0.42
3:W:196:LYS:HG3	3:W:201:TYR:CZ	2.54	0.42
3:W:359:TYR:CZ	3:W:375:PRO:HB3	2.54	0.42
3:W:478:ARG:C	3:W:480:ARG:H	2.26	0.42
3:W:1009:ASN:C	3:W:1011:SER:N	2.77	0.42
4:X:593:LEU:HD22	4:X:639:LEU:HD13	2.01	0.42
4:X:1048:PRO:HB2	4:X:1051:VAL:HG23	2.01	0.42
4:X:1085:LEU:HD22	4:X:1119:ILE:HD12	2.01	0.42
4:X:1210:VAL:O	4:X:1211:ARG:HB2	2.19	0.42
4:Y:305:THR:HA	4:Y:398:ILE:HD13	2.01	0.42
4:Y:410:HIS:HD2	4:Y:411:GLN:C	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:722:ASN:O	4:Y:726:ARG:HB2	2.20	0.42
4:Y:859:ILE:HD13	4:Y:859:ILE:HA	1.91	0.42
1:B:144:ASN:O	1:B:145:LEU:C	2.62	0.42
1:B:341:MET:CG	1:B:431:ILE:HD11	2.49	0.42
1:B:370:VAL:O	1:B:370:VAL:CG2	2.67	0.42
1:C:9:ASN:HD21	1:D:206:GLU:CG	2.32	0.42
1:C:13:ILE:CD1	5:C:649:MYR:H111	2.45	0.42
1:C:29:THR:CG2	1:H:609:ARG:CD	2.93	0.42
1:D:136:PHE:CD2	1:D:136:PHE:N	2.87	0.42
1:D:143:MET:O	1:D:146:GLN:HB3	2.19	0.42
1:D:266:MET:HG2	1:D:520:VAL:HG11	2.01	0.42
1:D:293:SER:HB3	1:D:465:THR:HG23	2.01	0.42
1:D:322:TYR:O	1:D:323:SER:HB3	2.17	0.42
1:D:565:LEU:N	1:D:565:LEU:HD23	2.34	0.42
1:F:188:ALA:HA	1:F:191:LYS:HD2	2.01	0.42
1:F:365:ASP:HB2	1:F:451:SER:OG	2.20	0.42
1:F:416:ARG:CB	1:H:298:PHE:HE1	2.16	0.42
1:H:310:PHE:CD1	1:H:382:ILE:HG13	2.54	0.42
1:H:540:VAL:HG21	1:H:566:TRP:HA	2.00	0.42
1:H:625:ARG:HG2	1:L:197:ASP:OD1	2.18	0.42
1:J:427:GLU:HB2	1:J:430:THR:CG2	2.49	0.42
1:J:433:GLY:O	1:J:435:PRO:CD	2.67	0.42
1:J:565:LEU:N	1:J:565:LEU:HD23	2.34	0.42
1:J:590:VAL:O	1:J:592:THR:N	2.52	0.42
1:J:603:GLY:C	1:J:605:GLY:N	2.75	0.42
1:L:252:LEU:HB3	1:L:613:LEU:HD23	2.02	0.42
1:L:341:MET:CG	1:L:431:ILE:HD11	2.49	0.42
1:L:345:ILE:HG23	1:L:475:THR:HG1	1.84	0.42
5:M:649:MYR:C4	1:N:187:LEU:HD22	2.49	0.42
1:N:188:ALA:HA	1:N:191:LYS:HD2	2.02	0.42
1:N:634:LYS:HE3	1:N:634:LYS:HB2	1.89	0.42
1:O:29:THR:HA	1:T:609:ARG:O	2.19	0.42
1:P:143:MET:O	1:P:146:GLN:HB3	2.19	0.42
1:P:144:ASN:O	1:P:145:LEU:C	2.62	0.42
1:P:427:GLU:HB2	1:P:430:THR:CG2	2.49	0.42
1:P:517:LEU:HD13	1:P:517:LEU:C	2.44	0.42
1:R:252:LEU:HB3	1:R:613:LEU:HD23	2.01	0.42
1:R:279:PRO:HA	1:R:484:ILE:O	2.20	0.42
1:R:310:PHE:CD1	1:R:382:ILE:HG13	2.54	0.42
1:R:341:MET:CE	1:R:341:MET:CA	2.88	0.42
1:R:390:ASN:HD22	1:R:390:ASN:HA	1.60	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:427:GLU:HB2	1:R:430:THR:CG2	2.49	0.42
1:T:46:LYS:HD3	1:T:70:GLN:OE1	2.19	0.42
1:T:252:LEU:HB3	1:T:613:LEU:CD2	2.47	0.42
1:T:285:PHE:O	1:T:286:THR:C	2.62	0.42
1:T:456:ASN:C	1:T:456:ASN:ND2	2.76	0.42
2:U:175:MET:HG3	2:U:232:PHE:HZ	1.83	0.42
2:U:270:ILE:HG22	2:U:328:TYR:O	2.18	0.42
3:W:1107:ILE:HG23	3:W:1126:THR:CG2	2.48	0.42
3:W:1167:ILE:HG22	3:W:1205:LEU:HD23	2.00	0.42
4:X:485:PRO:O	4:X:827:THR:HG23	2.20	0.42
4:X:514:ILE:CG2	4:X:564:TRP:CD2	3.02	0.42
4:X:751:CYS:N	4:X:752:PRO:CD	2.82	0.42
4:X:780:ILE:CD1	4:X:940:GLN:HG3	2.50	0.42
4:X:1075:LEU:C	4:X:1075:LEU:CD2	2.93	0.42
4:Y:484:THR:HG21	4:Y:529:TRP:CZ2	2.55	0.42
4:Y:599:ILE:N	4:Y:608:GLN:OE1	2.52	0.42
4:Y:1048:PRO:HG2	4:Y:1051:VAL:CG2	2.50	0.42
1:B:48:TRP:CE2	1:B:63:ILE:CD1	3.02	0.42
1:B:79:ARG:CB	1:B:79:ARG:HH11	2.33	0.42
1:B:135:VAL:O	1:B:135:VAL:HG13	2.19	0.42
1:B:310:PHE:CD1	1:B:382:ILE:HG13	2.54	0.42
1:B:616:GLY:O	1:B:620:ALA:HB2	2.20	0.42
1:D:171:THR:HG21	1:D:634:LYS:NZ	2.34	0.42
1:D:279:PRO:HA	1:D:484:ILE:O	2.20	0.42
1:E:9:ASN:HD21	1:F:206:GLU:CG	2.32	0.42
1:F:171:THR:HG21	1:F:634:LYS:NZ	2.34	0.42
1:F:266:MET:HG2	1:F:520:VAL:HG11	2.01	0.42
1:F:297:ALA:CB	1:F:460:MET:HB2	2.33	0.42
1:F:341:MET:CG	1:F:431:ILE:HD11	2.49	0.42
1:F:345:ILE:O	1:F:347:SER:N	2.52	0.42
1:F:397:VAL:O	1:F:398:SER:HB2	2.18	0.42
1:F:427:GLU:HB2	1:F:430:THR:CG2	2.49	0.42
1:H:318:LYS:HG3	1:H:319:THR:H	1.84	0.42
1:J:96:PHE:CE1	1:J:159:TRP:HH2	2.37	0.42
1:J:285:PHE:O	1:J:286:THR:C	2.62	0.42
1:J:288:SER:O	1:J:289:LEU:C	2.62	0.42
1:J:463:LEU:HD23	1:J:463:LEU:C	2.44	0.42
1:K:18:ASN:O	1:K:19:SER:HB3	2.18	0.42
1:L:355:GLY:HA2	1:N:298:PHE:CE1	2.47	0.42
1:L:616:GLY:O	1:L:620:ALA:HB2	2.20	0.42
1:L:618:THR:HG22	1:L:619:ASP:OD2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:5:GLN:HB3	1:M:6:THR:H	1.74	0.42
1:M:27:THR:HG22	1:M:29:THR:HG23	2.02	0.42
1:N:517:LEU:HD13	1:N:517:LEU:C	2.44	0.42
1:N:556:SER:N	1:N:557:PRO:CD	2.82	0.42
1:N:618:THR:HG22	1:N:619:ASP:OD2	2.19	0.42
1:P:293:SER:HB3	1:P:465:THR:HG23	2.01	0.42
1:P:588:ILE:HG22	1:P:591:LEU:HB2	2.00	0.42
1:T:93:GLN:OE1	1:T:93:GLN:HA	2.19	0.42
1:T:616:GLY:O	1:T:620:ALA:HB2	2.20	0.42
2:U:194:GLY:O	2:U:195:GLN:HB3	2.19	0.42
2:V:174:LEU:HD21	2:V:211:LEU:HD13	2.00	0.42
3:W:360:TRP:CD1	3:W:378:PRO:HD2	2.55	0.42
3:W:632:PHE:HE2	3:W:674:LEU:HD22	1.84	0.42
3:W:769:ARG:CD	3:W:844:SER:O	2.65	0.42
3:W:916:GLN:O	3:W:920:ARG:HG3	2.19	0.42
3:W:1055:LEU:HD23	3:W:1056:ASP:H	1.84	0.42
3:W:1225:ASP:C	3:W:1227:TYR:H	2.25	0.42
4:X:299:LEU:HD11	4:X:904:ALA:CB	2.42	0.42
4:X:570:THR:O	4:X:571:LEU:C	2.63	0.42
4:X:632:ASN:HA	4:X:633:PRO:HD3	1.87	0.42
4:X:772:THR:CG2	4:X:775:VAL:HB	2.49	0.42
4:X:983:TYR:HE1	4:X:1002:PRO:HB2	1.83	0.42
4:X:1124:VAL:CG1	4:X:1153:SER:OG	2.61	0.42
4:X:1130:ALA:HB2	4:Y:104:GLN:HA	2.00	0.42
4:Y:97:ALA:HB3	4:Y:100:VAL:HG22	2.01	0.42
4:Y:593:LEU:H	4:Y:593:LEU:CD2	2.24	0.42
4:Y:865:VAL:HB	4:Y:955:SER:HB2	2.02	0.42
4:Y:867:ALA:HA	4:Y:905:VAL:HG11	2.00	0.42
4:Y:1021:VAL:O	4:Y:1021:VAL:CG2	2.64	0.42
1:B:136:PHE:CD2	1:B:136:PHE:N	2.87	0.42
1:B:352:ASP:OD1	1:B:352:ASP:C	2.62	0.42
1:D:237:GLU:CD	1:F:46:LYS:NZ	2.68	0.42
1:D:345:ILE:O	1:D:347:SER:N	2.52	0.42
1:E:18:ASN:O	1:E:19:SER:HB3	2.18	0.42
1:F:154:ARG:O	1:F:155:ASP:C	2.62	0.42
1:F:442:THR:OG1	1:F:443:PHE:N	2.50	0.42
1:F:556:SER:N	1:F:557:PRO:CD	2.82	0.42
1:H:235:LEU:HD13	1:H:235:LEU:HA	1.80	0.42
1:H:266:MET:HG2	1:H:520:VAL:HG11	2.01	0.42
1:H:508:VAL:O	1:H:508:VAL:HG12	2.20	0.42
1:H:565:LEU:N	1:H:565:LEU:HD23	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:588:ILE:HG22	1:H:591:LEU:HB2	2.00	0.42
1:I:27:THR:HG22	1:I:29:THR:HG23	2.02	0.42
1:J:171:THR:HG21	1:J:634:LYS:NZ	2.34	0.42
1:J:362:THR:O	1:J:364:PRO:HD3	2.18	0.42
1:J:625:ARG:HH11	1:J:625:ARG:HG3	1.84	0.42
1:L:285:PHE:O	1:L:286:THR:C	2.62	0.42
1:L:318:LYS:HG3	1:L:319:THR:H	1.84	0.42
1:L:469:VAL:O	1:L:470:LEU:CB	2.64	0.42
1:L:590:VAL:O	1:L:592:THR:N	2.52	0.42
1:N:163:LEU:HD11	1:N:211:ALA:HB2	2.01	0.42
1:N:214:ARG:HB2	1:N:215:TYR:CE2	2.55	0.42
1:N:235:LEU:HA	1:N:235:LEU:HD13	1.80	0.42
1:N:341:MET:CE	1:N:341:MET:CA	2.88	0.42
1:P:79:ARG:CB	1:P:79:ARG:HH11	2.33	0.42
1:P:188:ALA:HA	1:P:191:LYS:HD2	2.01	0.42
1:P:288:SER:O	1:P:289:LEU:C	2.62	0.42
1:P:332:GLY:HA3	1:P:456:ASN:HA	2.01	0.42
1:P:341:MET:CE	1:P:341:MET:CA	2.88	0.42
1:P:341:MET:CG	1:P:431:ILE:HD11	2.49	0.42
1:P:469:VAL:O	1:P:469:VAL:HG22	2.20	0.42
1:P:618:THR:HG22	1:P:619:ASP:OD2	2.19	0.42
1:R:143:MET:O	1:R:146:GLN:HB3	2.19	0.42
1:R:178:SER:HB3	1:R:179:ALA:H	1.65	0.42
1:R:387:THR:O	1:R:390:ASN:HB2	2.18	0.42
1:R:508:VAL:O	1:R:508:VAL:HG12	2.20	0.42
1:R:551:GLN:NE2	1:R:558:THR:HB	2.34	0.42
1:T:199:LEU:CD1	1:T:203:TYR:CE2	3.01	0.42
1:T:365:ASP:HB2	1:T:451:SER:OG	2.20	0.42
1:T:433:GLY:O	1:T:435:PRO:CD	2.67	0.42
2:U:121:ASP:OD1	2:U:123:ASN:HB2	2.19	0.42
2:V:27:GLN:HG2	2:V:27:GLN:O	2.19	0.42
3:W:306:ARG:HD3	3:W:341:MET:CE	2.49	0.42
3:W:566:LEU:HD11	3:W:609:MET:CE	2.49	0.42
3:W:905:ALA:C	3:W:907:GLY:H	2.25	0.42
3:W:953:ASP:O	3:W:955:VAL:N	2.52	0.42
4:X:255:GLU:OE1	4:X:256:GLY:N	2.53	0.42
4:X:413:PRO:O	4:X:415:GLN:N	2.53	0.42
4:X:416:ILE:HD12	4:X:1207:ILE:HG13	2.00	0.42
4:X:662:LEU:N	4:X:662:LEU:CD2	2.75	0.42
4:X:750:MET:HE3	4:X:750:MET:HB2	1.63	0.42
4:X:786:ALA:HB2	4:X:804:HIS:NE2	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:1146:LEU:O	4:X:1148:SER:N	2.48	0.42
4:Y:633:PRO:CD	4:Y:640:ARG:HD3	2.48	0.42
4:Y:722:ASN:HD22	4:Y:724:LEU:HB3	1.84	0.42
1:B:163:LEU:HD11	1:B:211:ALA:HB2	2.01	0.42
1:D:46:LYS:HZ1	1:H:237:GLU:CB	2.08	0.42
1:D:96:PHE:CD1	1:D:159:TRP:CH2	3.08	0.42
1:D:397:VAL:O	1:D:398:SER:HB2	2.18	0.42
1:D:517:LEU:C	1:D:517:LEU:HD13	2.44	0.42
1:F:143:MET:O	1:F:146:GLN:HB3	2.20	0.42
1:F:352:ASP:OD1	1:F:352:ASP:C	2.62	0.42
1:F:618:THR:HG22	1:F:619:ASP:OD2	2.19	0.42
1:G:13:ILE:CD1	5:G:649:MYR:H111	2.46	0.42
1:H:46:LYS:HD3	1:H:70:GLN:OE1	2.19	0.42
1:H:143:MET:O	1:H:146:GLN:HB3	2.20	0.42
1:H:341:MET:CG	1:H:431:ILE:HD11	2.49	0.42
1:H:618:THR:HG22	1:H:619:ASP:OD2	2.19	0.42
1:H:625:ARG:HG3	1:H:625:ARG:HH11	1.84	0.42
1:I:26:MET:CG	1:J:216:PRO:CG	2.95	0.42
1:J:48:TRP:CE2	1:J:63:ILE:CD1	3.02	0.42
1:J:188:ALA:HA	1:J:191:LYS:HD2	2.01	0.42
1:J:279:PRO:HA	1:J:484:ILE:O	2.20	0.42
1:J:289:LEU:HA	1:L:578:SER:O	2.20	0.42
1:J:293:SER:HB3	1:J:465:THR:HG23	2.01	0.42
1:J:556:SER:N	1:J:557:PRO:CD	2.82	0.42
1:J:618:THR:HG22	1:J:619:ASP:OD2	2.19	0.42
1:L:171:THR:HG21	1:L:634:LYS:NZ	2.35	0.42
1:N:137:ILE:HD13	1:N:142:ILE:CG1	2.50	0.42
1:N:616:GLY:O	1:N:620:ALA:HB2	2.20	0.42
1:P:136:PHE:N	1:P:136:PHE:CD2	2.87	0.42
1:P:252:LEU:HB3	1:P:613:LEU:HD23	2.02	0.42
1:P:279:PRO:HA	1:P:484:ILE:O	2.20	0.42
1:P:616:GLY:O	1:P:620:ALA:HB2	2.19	0.42
1:P:622:GLU:OE1	1:T:281:PRO:CD	2.62	0.42
1:R:136:PHE:CD2	1:R:136:PHE:N	2.87	0.42
1:R:193:ILE:O	1:R:194:LEU:C	2.61	0.42
1:R:203:TYR:N	1:R:204:PRO:HD2	2.34	0.42
1:R:288:SER:O	1:R:289:LEU:C	2.62	0.42
1:R:292:ARG:HG2	1:R:292:ARG:NH1	2.32	0.42
1:R:344:MET:HE2	1:R:502:LEU:CD1	2.37	0.42
1:R:412:ARG:CA	1:T:455:SER:O	2.66	0.42
1:R:556:SER:N	1:R:557:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:S:649:MYR:H21	1:T:191:LYS:NZ	2.25	0.42
1:T:336:THR:CG2	1:T:456:ASN:ND2	2.79	0.42
1:T:370:VAL:O	1:T:370:VAL:CG2	2.67	0.42
1:T:517:LEU:C	1:T:517:LEU:HD13	2.44	0.42
1:T:565:LEU:N	1:T:565:LEU:HD23	2.34	0.42
1:T:625:ARG:HG3	1:T:625:ARG:HH11	1.84	0.42
2:U:221:GLY:O	2:U:222:ARG:C	2.62	0.42
2:U:272:PRO:HD3	2:U:393:ASP:HB3	2.01	0.42
2:V:37:TRP:CZ3	2:V:72:LEU:HD21	2.55	0.42
2:V:396:GLN:NE2	2:V:396:GLN:H	2.17	0.42
3:W:619:LYS:O	3:W:619:LYS:HG2	2.19	0.42
4:X:310:LYS:O	4:X:399:ARG:HG3	2.19	0.42
4:X:377:ILE:HD11	4:X:436:LEU:CD1	2.50	0.42
4:X:656:PHE:HE1	4:X:752:PRO:HA	1.83	0.42
4:X:1024:PRO:O	4:X:1025:ASN:C	2.62	0.42
4:X:1031:LEU:C	4:X:1031:LEU:CD1	2.92	0.42
4:Y:218:GLU:HG3	4:Y:219:LEU:H	1.78	0.42
4:Y:284:ASP:O	4:Y:286:ALA:N	2.52	0.42
4:Y:484:THR:HG21	4:Y:529:TRP:CH2	2.55	0.42
1:B:188:ALA:HA	1:B:191:LYS:HD2	2.01	0.42
1:B:365:ASP:HB2	1:B:451:SER:OG	2.20	0.42
1:B:556:SER:N	1:B:557:PRO:CD	2.82	0.42
1:D:73:PHE:CB	1:D:119:VAL:HG21	2.49	0.42
1:D:163:LEU:HD11	1:D:211:ALA:HB2	2.01	0.42
1:D:166:ALA:HB2	1:D:194:LEU:HD11	2.02	0.42
1:D:188:ALA:HA	1:D:191:LYS:HD2	2.01	0.42
1:D:288:SER:O	1:D:289:LEU:C	2.62	0.42
1:D:373:PHE:CD2	1:D:397:VAL:HG11	2.55	0.42
1:D:427:GLU:HB2	1:D:430:THR:CG2	2.49	0.42
1:D:590:VAL:O	1:D:592:THR:N	2.52	0.42
1:E:28:SER:C	1:E:29:THR:HG23	2.45	0.42
1:F:46:LYS:HD3	1:F:70:GLN:OE1	2.19	0.42
1:F:101:THR:HG23	1:F:102:GLY:N	2.34	0.42
1:F:152:ARG:NH1	1:F:155:ASP:OD2	2.53	0.42
1:F:517:LEU:HD13	1:F:517:LEU:C	2.44	0.42
5:G:649:MYR:C4	1:H:187:LEU:HD22	2.49	0.42
1:H:48:TRP:CE2	1:H:63:ILE:CD1	3.02	0.42
1:H:352:ASP:OD1	1:H:352:ASP:C	2.62	0.42
1:H:373:PHE:CD2	1:H:397:VAL:HG11	2.55	0.42
1:H:567:ARG:HB2	1:H:567:ARG:HH11	1.85	0.42
1:I:9:ASN:HD21	1:J:206:GLU:CG	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:252:LEU:HB3	1:J:613:LEU:HD23	2.02	0.42
1:J:412:ARG:CA	1:L:455:SER:O	2.66	0.42
1:J:418:ASN:CG	1:L:337:ARG:NH2	2.74	0.42
1:J:420:LEU:HD11	1:J:422:LEU:CD2	2.49	0.42
1:J:567:ARG:HB2	1:J:567:ARG:HH11	1.85	0.42
1:L:96:PHE:CD1	1:L:159:TRP:CH2	3.08	0.42
1:L:139:THR:HA	1:L:142:ILE:CG2	2.50	0.42
1:L:144:ASN:O	1:L:145:LEU:C	2.62	0.42
1:L:188:ALA:HA	1:L:191:LYS:HD2	2.01	0.42
1:L:565:LEU:N	1:L:565:LEU:HD23	2.34	0.42
1:M:28:SER:C	1:M:29:THR:HG23	2.45	0.42
1:N:154:ARG:O	1:N:155:ASP:C	2.62	0.42
1:N:293:SER:HB3	1:N:465:THR:HG23	2.01	0.42
1:N:341:MET:CG	1:N:431:ILE:HD11	2.49	0.42
1:P:128:ASP:OD2	1:T:107:VAL:HG21	2.18	0.42
1:P:152:ARG:NH1	1:P:155:ASP:OD2	2.53	0.42
1:P:171:THR:HG21	1:P:634:LYS:NZ	2.34	0.42
1:P:310:PHE:CD1	1:P:382:ILE:HG13	2.54	0.42
1:P:337:ARG:NH2	1:T:418:ASN:CG	2.74	0.42
1:P:357:ILE:CD1	1:P:414:GLN:HB3	2.50	0.42
1:P:365:ASP:HB2	1:P:451:SER:OG	2.20	0.42
1:P:578:SER:O	1:T:289:LEU:HA	2.20	0.42
1:Q:23:THR:C	1:Q:25:ASP:N	2.75	0.42
1:R:73:PHE:CB	1:R:119:VAL:HG21	2.49	0.42
1:R:293:SER:HB3	1:R:465:THR:HG23	2.01	0.42
1:R:370:VAL:O	1:R:370:VAL:CG2	2.67	0.42
1:R:469:VAL:O	1:R:469:VAL:HG22	2.20	0.42
1:R:517:LEU:C	1:R:517:LEU:HD13	2.44	0.42
1:R:618:THR:HG22	1:R:619:ASP:OD2	2.19	0.42
1:T:279:PRO:HA	1:T:484:ILE:O	2.20	0.42
2:U:53:VAL:HG11	2:U:61:VAL:HA	2.01	0.42
2:V:128:TYR:OH	2:V:139:ASN:HB2	2.20	0.42
2:V:175:MET:HE2	4:Y:404:MET:HE1	2.02	0.42
2:V:184:HIS:CD2	4:Y:436:LEU:CD1	2.95	0.42
2:V:196:LEU:HD23	4:Y:377:ILE:HD12	2.01	0.42
3:W:207:TYR:CZ	3:W:237:PRO:HB3	2.54	0.42
3:W:266:VAL:HG11	3:W:310:LEU:HD12	2.01	0.42
3:W:410:THR:O	3:W:411:VAL:C	2.62	0.42
3:W:530:GLU:O	3:W:531:PRO:C	2.61	0.42
3:W:651:ASN:HD21	3:W:685:ASN:ND2	2.17	0.42
3:W:918:ILE:N	3:W:919:PRO:CD	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:390:LEU:CA	4:X:1191:TYR:HD1	2.33	0.42
4:X:427:LEU:HD13	4:X:838:GLY:HA2	2.02	0.42
4:X:682:GLN:CG	4:X:683:PRO:HD2	2.40	0.42
4:X:792:GLN:HG2	4:X:931:ILE:CG2	2.46	0.42
4:X:1174:ASP:HA	4:X:1175:PRO:HD3	1.92	0.42
4:Y:156:ALA:HB3	4:Y:851:PHE:CD2	2.55	0.42
4:Y:551:PRO:O	4:Y:552:ASP:C	2.63	0.42
4:Y:564:TRP:C	4:Y:566:CYS:N	2.76	0.42
4:Y:684:LEU:HD11	4:Y:750:MET:CE	2.50	0.42
4:Y:864:PHE:CD1	4:Y:864:PHE:C	2.97	0.42
4:Y:882:PRO:C	4:Y:884:PRO:HD3	2.44	0.42
1:A:28:SER:C	1:A:29:THR:HG23	2.45	0.42
1:B:79:ARG:O	1:B:83:SER:HB2	2.20	0.42
1:B:252:LEU:HB3	1:B:613:LEU:HD23	2.02	0.42
1:B:285:PHE:O	1:B:286:THR:C	2.62	0.42
1:B:293:SER:HB3	1:B:465:THR:HG23	2.01	0.42
1:B:397:VAL:O	1:B:398:SER:HB2	2.18	0.42
5:C:649:MYR:H131	1:D:163:LEU:HD11	2.02	0.42
1:D:135:VAL:HG13	1:D:135:VAL:O	2.19	0.42
1:D:282:VAL:HG21	1:D:474:THR:HB	2.02	0.42
1:D:352:ASP:OD1	1:D:352:ASP:C	2.62	0.42
1:D:416:ARG:CB	1:F:298:PHE:HE1	2.16	0.42
1:D:625:ARG:HG3	1:D:625:ARG:HH11	1.85	0.42
1:F:166:ALA:HB2	1:F:194:LEU:HD11	2.02	0.42
1:F:199:LEU:HD11	1:F:203:TYR:CE2	2.54	0.42
1:F:433:GLY:O	1:F:435:PRO:CD	2.67	0.42
1:F:565:LEU:N	1:F:565:LEU:HD23	2.34	0.42
1:H:79:ARG:CB	1:H:79:ARG:HH11	2.33	0.42
1:H:193:ILE:O	1:H:194:LEU:C	2.61	0.42
1:J:79:ARG:CB	1:J:79:ARG:HH11	2.33	0.42
1:L:152:ARG:NH1	1:L:155:ASP:OD2	2.53	0.42
1:L:289:LEU:HA	1:N:578:SER:O	2.20	0.42
1:L:600:LEU:O	1:L:601:THR:C	2.60	0.42
1:N:46:LYS:HD3	1:N:70:GLN:OE1	2.19	0.42
1:N:79:ARG:O	1:N:83:SER:HB2	2.20	0.42
1:N:285:PHE:O	1:N:286:THR:C	2.62	0.42
1:P:48:TRP:CE2	1:P:63:ILE:CD1	3.02	0.42
1:P:58:ILE:HG12	1:P:127:LEU:CB	2.50	0.42
1:P:59:ASP:OD2	3:W:349:TRP:NE1	2.53	0.42
1:P:158:LEU:O	1:P:161:LYS:HB3	2.20	0.42
1:P:285:PHE:O	1:P:286:THR:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:48:TRP:CE2	1:R:63:ILE:CD1	3.02	0.42
1:R:214:ARG:HB2	1:R:215:TYR:CE2	2.55	0.42
1:R:470:LEU:O	1:R:470:LEU:HD13	2.20	0.42
1:R:502:LEU:O	1:R:503:ALA:C	2.63	0.42
1:R:616:GLY:O	1:R:620:ALA:HB2	2.20	0.42
5:S:649:MYR:C2	1:T:191:LYS:HZ1	2.27	0.42
1:T:152:ARG:NH1	1:T:155:ASP:OD2	2.53	0.42
1:T:156:VAL:HG13	1:T:157:ALA:N	2.35	0.42
1:T:199:LEU:HD11	1:T:203:TYR:CE2	2.55	0.42
1:T:252:LEU:HB3	1:T:613:LEU:HD23	2.02	0.42
1:T:288:SER:O	1:T:289:LEU:C	2.62	0.42
1:T:345:ILE:O	1:T:347:SER:N	2.52	0.42
2:V:172:ALA:HA	2:V:175:MET:HE3	2.02	0.42
3:W:157:GLN:O	4:X:683:PRO:HG3	2.19	0.42
3:W:582:LEU:HB2	3:W:602:MET:HE1	2.01	0.42
3:W:1169:LYS:O	3:W:1170:ASP:HB2	2.20	0.42
4:X:207:LEU:HB3	4:X:244:VAL:HG12	2.01	0.42
4:X:476:LEU:O	4:X:476:LEU:HD22	2.20	0.42
4:X:861:ARG:O	4:X:861:ARG:HG2	2.19	0.42
4:X:996:MET:HE2	4:X:996:MET:CA	2.41	0.42
4:X:1037:VAL:O	4:X:1038:PRO:C	2.63	0.42
4:Y:595:GLN:N	4:Y:596:PRO:HD2	2.35	0.42
4:Y:1156:THR:HG21	4:Y:1161:ASN:CB	2.50	0.42
4:Y:1183:ASP:O	4:Y:1185:PRO:HD2	2.20	0.42
4:Y:1192:ASN:HB3	4:Y:1193:SER:H	1.57	0.42
1:B:106:ILE:CD1	1:B:152:ARG:HG3	2.44	0.42
1:B:152:ARG:NH1	1:B:155:ASP:OD2	2.53	0.42
1:B:266:MET:HG2	1:B:520:VAL:HG11	2.01	0.42
1:B:456:ASN:C	1:B:456:ASN:ND2	2.76	0.42
1:D:289:LEU:HA	1:F:578:SER:O	2.20	0.42
1:D:365:ASP:HB2	1:D:451:SER:OG	2.20	0.42
1:D:418:ASN:HD22	1:D:418:ASN:HA	1.51	0.42
1:D:551:GLN:NE2	1:D:558:THR:HB	2.34	0.42
1:D:600:LEU:HG	1:D:601:THR:N	2.30	0.42
1:D:618:THR:HG22	1:D:619:ASP:OD2	2.19	0.42
1:F:79:ARG:O	1:F:83:SER:HB2	2.20	0.42
1:F:171:THR:HG21	1:F:634:LYS:HZ1	1.84	0.42
1:F:252:LEU:HB3	1:F:613:LEU:HD23	2.02	0.42
1:F:288:SER:O	1:F:289:LEU:C	2.62	0.42
1:F:600:LEU:O	1:F:601:THR:C	2.60	0.42
1:F:609:ARG:CD	1:G:29:THR:HG21	2.47	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:625:ARG:HH11	1:F:625:ARG:HG3	1.84	0.42
1:H:95:LEU:HD12	1:H:95:LEU:HA	1.71	0.42
1:H:152:ARG:NH1	1:H:155:ASP:OD2	2.53	0.42
1:H:188:ALA:HA	1:H:191:LYS:HD2	2.02	0.42
1:H:282:VAL:HG21	1:H:474:THR:HB	2.02	0.42
1:H:292:ARG:HG2	1:H:292:ARG:NH1	2.32	0.42
1:H:443:PHE:HE1	1:H:459:LEU:HD21	1.75	0.42
1:I:29:THR:HA	1:N:609:ARG:O	2.19	0.42
1:J:214:ARG:HB2	1:J:215:TYR:CE2	2.55	0.42
1:J:318:LYS:HG3	1:J:319:THR:H	1.84	0.42
1:J:352:ASP:OD1	1:J:352:ASP:C	2.62	0.42
1:J:622:GLU:OE1	1:N:281:PRO:CD	2.62	0.42
1:K:27:THR:HG22	1:K:29:THR:HG23	2.02	0.42
1:L:48:TRP:CE2	1:L:63:ILE:CD1	3.02	0.42
1:L:166:ALA:HB2	1:L:194:LEU:HD11	2.02	0.42
1:L:288:SER:O	1:L:289:LEU:C	2.62	0.42
1:L:343:ALA:CB	1:L:478:GLY:O	2.62	0.42
1:L:431:ILE:CG1	1:L:437:ILE:HD13	2.50	0.42
1:L:502:LEU:O	1:L:503:ALA:C	2.63	0.42
1:N:79:ARG:CB	1:N:79:ARG:HH11	2.33	0.42
1:N:143:MET:O	1:N:146:GLN:HB3	2.19	0.42
1:N:567:ARG:HB2	1:N:567:ARG:HH11	1.85	0.42
1:P:135:VAL:O	1:P:135:VAL:HG13	2.19	0.42
1:P:166:ALA:HB2	1:P:194:LEU:HD11	2.02	0.42
1:P:409:ILE:HD11	1:R:297:ALA:O	2.17	0.42
1:P:556:SER:N	1:P:557:PRO:CD	2.82	0.42
1:P:567:ARG:HB2	1:P:567:ARG:HH11	1.85	0.42
1:R:341:MET:CG	1:R:431:ILE:HD11	2.49	0.42
1:R:365:ASP:HB2	1:R:451:SER:OG	2.20	0.42
1:R:431:ILE:CG1	1:R:437:ILE:HD13	2.50	0.42
1:T:357:ILE:CD1	1:T:414:GLN:HB3	2.50	0.42
2:U:12:ASN:ND2	2:U:116:GLU:OE2	2.52	0.42
2:U:77:ASN:N	2:U:78:PRO:CD	2.82	0.42
2:U:329:ASN:CB	2:U:332:PRO:HD2	2.50	0.42
2:V:162:PRO:HD2	2:V:210:TRP:CZ2	2.55	0.42
2:V:188:THR:HG23	4:Y:376:LEU:CD1	2.50	0.42
3:W:231:ASP:O	3:W:232:SER:C	2.62	0.42
3:W:300:PHE:CD2	3:W:346:PRO:HG3	2.55	0.42
3:W:957:ARG:HG2	3:W:964:VAL:HG22	2.01	0.42
4:X:205:MET:HB3	4:X:249:TRP:CG	2.54	0.42
4:X:249:TRP:CG	4:X:250:ALA:N	2.88	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:291:LEU:HD13	4:X:291:LEU:HA	1.85	0.42
4:X:389:GLU:O	4:X:389:GLU:HG3	2.20	0.42
4:X:589:LEU:C	4:X:591:ASN:N	2.76	0.42
4:X:633:PRO:O	4:X:635:GLN:N	2.53	0.42
4:X:645:HIS:CE1	4:X:700:TRP:CZ3	3.08	0.42
4:X:722:ASN:CG	4:X:723:ASP:H	2.27	0.42
4:X:780:ILE:HD13	4:X:940:GLN:CG	2.49	0.42
4:X:793:ARG:HB3	4:Y:693:TYR:CD2	2.55	0.42
4:X:1125:TYR:N	4:X:1125:TYR:CD2	2.76	0.42
4:Y:113:ASN:N	4:Y:113:ASN:HD22	2.18	0.42
4:Y:122:CYS:SG	4:Y:135:HIS:NE2	2.93	0.42
4:Y:367:ARG:HH11	4:Y:367:ARG:CG	2.32	0.42
4:Y:545:LEU:CD2	4:Y:576:THR:HG21	2.50	0.42
4:Y:590:ALA:HA	4:Y:639:LEU:HD11	2.01	0.42
4:Y:938:TYR:CD2	4:Y:938:TYR:C	2.98	0.42
4:Y:979:ARG:HG2	4:Y:979:ARG:NH1	2.32	0.42
4:Y:1056:VAL:HG21	4:Y:1107:ILE:HB	2.02	0.42
1:A:26:MET:CG	1:B:216:PRO:CG	2.95	0.42
1:A:28:SER:O	1:A:29:THR:CG2	2.68	0.42
1:B:156:VAL:HG13	1:B:157:ALA:N	2.35	0.42
1:B:279:PRO:HA	1:B:484:ILE:O	2.20	0.42
1:B:420:LEU:HD11	1:B:422:LEU:CD2	2.49	0.42
1:B:470:LEU:O	1:B:470:LEU:HD13	2.20	0.42
1:B:508:VAL:O	1:B:508:VAL:HG12	2.20	0.42
1:B:517:LEU:C	1:B:517:LEU:HD13	2.44	0.42
1:D:318:LYS:HG3	1:D:319:THR:H	1.84	0.42
1:D:502:LEU:O	1:D:503:ALA:C	2.63	0.42
1:D:578:SER:O	1:H:289:LEU:HA	2.20	0.42
1:D:609:ARG:CD	1:E:29:THR:HG21	2.47	0.42
1:E:27:THR:HG22	1:E:29:THR:HG23	2.02	0.42
1:F:136:PHE:CD2	1:F:136:PHE:N	2.87	0.42
1:F:156:VAL:HG13	1:F:157:ALA:N	2.35	0.42
1:F:203:TYR:N	1:F:204:PRO:HD2	2.34	0.42
1:F:214:ARG:HB2	1:F:215:TYR:CE2	2.55	0.42
1:F:274:ILE:O	1:F:274:ILE:HG13	2.20	0.42
1:F:502:LEU:O	1:F:503:ALA:C	2.63	0.42
1:F:616:GLY:O	1:F:620:ALA:HB2	2.20	0.42
1:G:9:ASN:CB	1:H:209:ASN:ND2	2.83	0.42
1:G:26:MET:CG	1:H:216:PRO:CG	2.95	0.42
1:G:28:SER:C	1:G:29:THR:HG23	2.45	0.42
1:H:154:ARG:O	1:H:155:ASP:C	2.62	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:166:ALA:HB2	1:H:194:LEU:HD11	2.02	0.42
1:H:365:ASP:HB2	1:H:451:SER:OG	2.20	0.42
1:H:470:LEU:HD13	1:H:470:LEU:O	2.20	0.42
1:J:143:MET:O	1:J:146:GLN:HB3	2.19	0.42
1:J:273:LEU:HA	1:L:630:LEU:CD1	2.50	0.42
1:J:355:GLY:HA2	1:L:298:PHE:CE1	2.47	0.42
1:L:93:GLN:OE1	1:L:93:GLN:HA	2.19	0.42
1:L:101:THR:HG23	1:L:102:GLY:N	2.34	0.42
1:L:167:MET:HA	1:L:167:MET:CE	2.31	0.42
1:L:561:ASP:C	1:L:563:PRO:HD2	2.45	0.42
1:M:9:ASN:CB	1:N:209:ASN:ND2	2.83	0.42
1:N:96:PHE:CD1	1:N:159:TRP:CH2	3.08	0.42
1:N:166:ALA:HB2	1:N:194:LEU:HD11	2.02	0.42
1:N:360:TYR:CE2	1:N:415:PRO:HG3	2.55	0.42
1:N:460:MET:C	1:N:462:GLY:N	2.78	0.42
5:O:649:MYR:H131	1:P:163:LEU:HD11	2.02	0.42
1:P:46:LYS:HD3	1:P:70:GLN:OE1	2.19	0.42
1:P:370:VAL:O	1:P:370:VAL:CG2	2.67	0.42
1:P:431:ILE:CG1	1:P:437:ILE:HD13	2.50	0.42
1:P:547:HIS:ND1	1:P:547:HIS:C	2.78	0.42
1:P:609:ARG:CD	1:Q:29:THR:CG2	2.93	0.42
1:P:625:ARG:HH11	1:P:625:ARG:HG3	1.84	0.42
1:R:79:ARG:CB	1:R:79:ARG:HH11	2.33	0.42
1:R:96:PHE:CD1	1:R:159:TRP:CH2	3.08	0.42
1:R:271:LEU:HD12	1:R:271:LEU:HA	1.79	0.42
1:R:318:LYS:HG3	1:R:319:THR:H	1.84	0.42
1:S:28:SER:O	1:S:29:THR:CG2	2.68	0.42
5:S:649:MYR:C4	1:T:187:LEU:HD22	2.49	0.42
1:T:292:ARG:HG2	1:T:292:ARG:NH1	2.32	0.42
1:T:427:GLU:HB2	1:T:430:THR:CG2	2.48	0.42
1:T:463:LEU:C	1:T:463:LEU:HD23	2.44	0.42
1:T:618:THR:HG22	1:T:619:ASP:OD2	2.19	0.42
2:U:31:GLY:C	2:U:33:TYR:H	2.28	0.42
2:U:64:ARG:HG2	2:U:64:ARG:NH1	2.33	0.42
2:U:146:THR:O	2:U:146:THR:HG22	2.20	0.42
2:U:182:ILE:CG2	2:U:246:ALA:HB3	2.50	0.42
2:U:239:PRO:CA	2:U:243:PRO:HB3	2.50	0.42
3:W:263:VAL:HG23	3:W:303:LEU:HD11	2.00	0.42
3:W:346:PRO:O	3:W:347:GLN:C	2.61	0.42
3:W:450:THR:O	3:W:671:THR:HA	2.20	0.42
3:W:533:ILE:CG1	3:W:537:ILE:HD11	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:574:THR:HB	3:W:611:THR:CA	2.50	0.42
3:W:1208:CYS:HA	3:W:1219:ILE:O	2.20	0.42
3:W:1250:LEU:HD12	3:W:1258:MET:HE2	2.00	0.42
4:X:657:GLY:HA2	4:X:673:ASN:O	2.19	0.42
4:X:687:LEU:HB3	4:X:688:THR:H	1.50	0.42
4:X:871:VAL:O	4:X:875:GLN:HB2	2.20	0.42
4:X:1182:ASN:ND2	4:X:1184:LEU:HD22	2.33	0.42
4:Y:277:VAL:HG12	4:Y:278:LEU:CG	2.40	0.42
4:Y:330:ILE:HD12	4:Y:340:LEU:HD11	2.01	0.42
4:Y:366:ASP:OD1	4:Y:366:ASP:C	2.63	0.42
4:Y:1032:ILE:HD12	4:Y:1032:ILE:HA	1.84	0.42
1:B:46:LYS:HD3	1:B:70:GLN:OE1	2.19	0.41
1:B:288:SER:O	1:B:289:LEU:C	2.62	0.41
1:B:442:THR:OG1	1:B:443:PHE:N	2.50	0.41
1:B:618:THR:HG22	1:B:619:ASP:OD2	2.19	0.41
1:D:50:PRO:HB3	1:D:56:ALA:CB	2.50	0.41
1:D:79:ARG:CB	1:D:79:ARG:HH11	2.33	0.41
1:D:203:TYR:N	1:D:204:PRO:HD2	2.34	0.41
1:E:23:THR:C	1:E:25:ASP:N	2.75	0.41
1:F:292:ARG:HG2	1:F:292:ARG:NH1	2.32	0.41
1:F:312:ASN:ND2	1:F:314:SER:O	2.53	0.41
1:F:318:LYS:HG3	1:F:319:THR:H	1.84	0.41
1:F:561:ASP:C	1:F:563:PRO:HD2	2.45	0.41
1:H:156:VAL:HG13	1:H:157:ALA:N	2.35	0.41
1:H:332:GLY:HA3	1:H:456:ASN:HA	2.01	0.41
1:J:152:ARG:NH1	1:J:155:ASP:OD2	2.53	0.41
1:J:282:VAL:HG21	1:J:474:THR:HB	2.02	0.41
1:J:361:ASP:OD2	1:J:362:THR:HG23	2.20	0.41
1:J:370:VAL:O	1:J:370:VAL:CG2	2.67	0.41
1:J:517:LEU:C	1:J:517:LEU:HD13	2.44	0.41
1:K:9:ASN:CB	1:L:209:ASN:ND2	2.83	0.41
1:L:199:LEU:HD11	1:L:203:TYR:CE2	2.55	0.41
1:L:460:MET:C	1:L:462:GLY:N	2.78	0.41
1:M:28:SER:O	1:M:29:THR:CG2	2.68	0.41
1:N:279:PRO:HA	1:N:484:ILE:O	2.20	0.41
1:P:147:ARG:CB	1:P:147:ARG:CZ	2.98	0.41
1:P:360:TYR:CE2	1:P:415:PRO:HG3	2.55	0.41
1:P:468:PRO:O	1:R:578:SER:OG	2.21	0.41
1:R:188:ALA:HA	1:R:191:LYS:HD2	2.01	0.41
1:R:358:LEU:HB2	1:R:417:PHE:HD2	1.77	0.41
1:R:561:ASP:C	1:R:563:PRO:HD2	2.45	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:609:ARG:CD	1:S:29:THR:HG21	2.47	0.41
1:R:625:ARG:HH11	1:R:625:ARG:HG3	1.84	0.41
1:T:214:ARG:HB2	1:T:215:TYR:CE2	2.55	0.41
1:T:360:TYR:CE2	1:T:415:PRO:HG3	2.55	0.41
1:T:502:LEU:O	1:T:503:ALA:C	2.63	0.41
2:U:103:VAL:O	2:U:104:PRO:O	2.37	0.41
2:U:143:HIS:CD2	2:U:292:ALA:HA	2.55	0.41
2:U:379:ILE:C	2:U:381:ALA:H	2.27	0.41
3:W:121:ALA:HB2	3:W:134:PHE:HB3	2.02	0.41
3:W:248:LEU:HD11	4:X:647:ARG:HE	1.84	0.41
3:W:293:THR:CG2	3:W:294:SER:N	2.83	0.41
3:W:519:LEU:CD1	3:W:566:LEU:HG	2.48	0.41
3:W:832:LEU:HD23	3:W:893:ALA:HA	2.02	0.41
3:W:1249:HIS:CE1	3:W:1297:VAL:HB	2.55	0.41
4:X:493:LEU:O	4:X:494:THR:C	2.63	0.41
4:X:593:LEU:O	4:X:596:PRO:HD2	2.20	0.41
4:X:690:ALA:O	4:X:691:PRO:C	2.60	0.41
4:X:1131:ARG:O	4:Y:106:MET:HA	2.20	0.41
4:Y:986:GLN:HB2	4:Y:1135:TYR:HE1	1.84	0.41
4:Y:1005:VAL:HG22	4:Y:1006:ARG:N	2.35	0.41
4:Y:1112:ILE:HG23	4:Y:1113:PRO:HD2	2.02	0.41
4:Y:1154:ILE:HD13	4:Y:1154:ILE:HA	1.81	0.41
1:B:166:ALA:HB2	1:B:194:LEU:HD11	2.02	0.41
1:D:214:ARG:HB2	1:D:215:TYR:CE2	2.55	0.41
1:D:285:PHE:O	1:D:286:THR:C	2.62	0.41
1:D:357:ILE:HD13	1:D:357:ILE:HA	1.97	0.41
1:F:273:LEU:HA	1:H:630:LEU:CD1	2.50	0.41
1:F:285:PHE:O	1:F:286:THR:C	2.62	0.41
1:F:471:LEU:O	1:F:472:ARG:C	2.64	0.41
1:F:554:GLN:C	1:F:556:SER:H	2.28	0.41
1:H:79:ARG:O	1:H:83:SER:HB2	2.20	0.41
1:H:144:ASN:O	1:H:145:LEU:C	2.62	0.41
1:I:28:SER:O	1:I:29:THR:CG2	2.68	0.41
1:I:28:SER:C	1:I:29:THR:HG23	2.45	0.41
1:J:101:THR:HG21	1:J:159:TRP:CZ2	2.55	0.41
1:J:266:MET:HE2	1:J:604:VAL:HG12	2.03	0.41
1:J:289:LEU:HD13	1:L:580:PRO:CD	2.50	0.41
1:J:365:ASP:HB2	1:J:451:SER:OG	2.20	0.41
1:J:373:PHE:CD2	1:J:397:VAL:HG11	2.55	0.41
1:J:401:GLY:O	1:J:402:ALA:CB	2.66	0.41
1:L:79:ARG:O	1:L:83:SER:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:289:LEU:HD13	1:N:580:PRO:CD	2.50	0.41
1:L:360:TYR:HD2	1:L:360:TYR:C	2.24	0.41
1:N:62:ALA:O	1:N:63:ILE:C	2.62	0.41
1:N:147:ARG:CB	1:N:147:ARG:CZ	2.99	0.41
1:N:156:VAL:O	1:N:157:ALA:C	2.64	0.41
1:N:156:VAL:HG13	1:N:157:ALA:N	2.35	0.41
1:N:344:MET:HE2	1:N:502:LEU:CD1	2.37	0.41
1:N:357:ILE:CD1	1:N:414:GLN:HB3	2.50	0.41
1:N:370:VAL:O	1:N:370:VAL:CG2	2.67	0.41
1:N:469:VAL:O	1:N:469:VAL:HG22	2.20	0.41
1:N:471:LEU:O	1:N:472:ARG:C	2.63	0.41
1:N:502:LEU:O	1:N:503:ALA:C	2.63	0.41
1:N:508:VAL:O	1:N:508:VAL:HG12	2.20	0.41
1:O:9:ASN:HD21	1:P:206:GLU:CG	2.32	0.41
1:P:156:VAL:HG13	1:P:157:ALA:N	2.35	0.41
1:P:163:LEU:HD11	1:P:211:ALA:HB2	2.01	0.41
1:P:289:LEU:HD13	1:R:580:PRO:CD	2.50	0.41
1:P:549:LEU:HB3	1:R:644:LEU:CD1	2.34	0.41
1:R:46:LYS:HD3	1:R:70:GLN:OE1	2.19	0.41
1:R:93:GLN:OE1	1:R:93:GLN:HA	2.19	0.41
1:R:289:LEU:HD13	1:T:580:PRO:CD	2.50	0.41
1:R:361:ASP:OD2	1:R:362:THR:HG23	2.20	0.41
5:S:649:MYR:C2	1:T:191:LYS:HZ3	2.11	0.41
1:T:361:ASP:OD2	1:T:362:THR:HG23	2.20	0.41
1:T:469:VAL:O	1:T:469:VAL:HG22	2.20	0.41
1:T:518:ALA:HB1	1:T:580:PRO:HG3	2.03	0.41
2:U:159:LEU:HD12	2:U:267:ILE:HD12	2.01	0.41
2:U:184:HIS:CD2	2:U:184:HIS:N	2.86	0.41
2:U:205:VAL:O	2:U:209:ARG:HB2	2.19	0.41
2:U:272:PRO:HD3	2:U:393:ASP:CB	2.49	0.41
2:V:6:PHE:O	2:V:122:SER:HB2	2.20	0.41
2:V:291:THR:HG22	2:V:291:THR:O	2.20	0.41
3:W:47:LEU:HB3	3:W:191:PRO:HG3	2.03	0.41
3:W:280:THR:HG22	3:W:281:ALA:N	2.35	0.41
3:W:519:LEU:HD11	3:W:580:ALA:CB	2.50	0.41
3:W:640:THR:HB	3:W:661:GLY:H	1.85	0.41
3:W:714:ARG:HA	3:W:758:THR:HA	2.02	0.41
3:W:821:GLU:CA	3:W:824:ARG:HH21	2.32	0.41
3:W:825:ASN:OD1	3:W:825:ASN:C	2.63	0.41
3:W:961:GLY:O	3:W:962:GLU:C	2.63	0.41
3:W:1199:ALA:HB2	3:W:1296:TYR:CZ	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:1273:LEU:HD12	3:W:1285:PRO:HB2	2.02	0.41
4:X:200:LEU:H	4:X:200:LEU:CD2	2.33	0.41
4:X:240:VAL:HG11	4:X:1087:TYR:CZ	2.56	0.41
4:X:282:TYR:HE2	4:X:289:ASN:ND2	2.17	0.41
4:X:362:THR:HG21	4:X:1173:VAL:HB	2.01	0.41
4:X:377:ILE:CG1	4:X:438:PRO:HG3	2.50	0.41
4:X:448:SER:HB2	4:X:664:GLY:HA2	2.01	0.41
4:X:567:LEU:HD11	4:X:705:ILE:CD1	2.50	0.41
4:X:587:MET:HA	4:X:590:ALA:HB3	2.02	0.41
4:X:593:LEU:CD2	4:X:639:LEU:HD13	2.51	0.41
4:X:693:TYR:HD2	4:X:693:TYR:N	2.18	0.41
4:X:798:VAL:HG23	4:X:803:THR:HG21	2.01	0.41
4:Y:220:ILE:O	4:Y:350:LEU:HD11	2.20	0.41
4:Y:291:LEU:O	4:Y:890:GLN:HA	2.19	0.41
4:Y:376:LEU:HB2	4:Y:383:ALA:HB3	2.01	0.41
4:Y:526:ALA:O	4:Y:530:LYS:N	2.50	0.41
4:Y:576:THR:HG22	4:Y:813:VAL:HG11	2.02	0.41
4:Y:592:LEU:HA	4:Y:592:LEU:HD23	1.76	0.41
5:A:649:MYR:H131	1:B:163:LEU:HD11	2.02	0.41
1:B:147:ARG:CB	1:B:147:ARG:CZ	2.98	0.41
1:B:373:PHE:CD2	1:B:397:VAL:HG11	2.55	0.41
1:B:431:ILE:CG1	1:B:437:ILE:HD13	2.50	0.41
1:B:469:VAL:O	1:B:469:VAL:HG22	2.20	0.41
1:B:554:GLN:C	1:B:556:SER:H	2.28	0.41
1:B:576:PHE:HB2	1:B:591:LEU:HD21	2.02	0.41
1:B:625:ARG:HH11	1:B:625:ARG:HG3	1.84	0.41
1:C:28:SER:C	1:C:29:THR:HG23	2.45	0.41
5:C:649:MYR:H62	1:D:200:CYS:O	2.21	0.41
1:D:79:ARG:O	1:D:83:SER:HB2	2.20	0.41
1:D:199:LEU:HD11	1:D:203:TYR:CE2	2.54	0.41
1:D:266:MET:HE2	1:D:604:VAL:HG12	2.03	0.41
1:D:357:ILE:CD1	1:D:414:GLN:HB3	2.50	0.41
1:D:428:ARG:NH1	1:D:428:ARG:CG	2.76	0.41
1:D:580:PRO:CD	1:H:289:LEU:HD13	2.51	0.41
1:E:28:SER:O	1:E:29:THR:CG2	2.68	0.41
1:F:96:PHE:CE1	1:F:159:TRP:HH2	2.36	0.41
1:G:28:SER:O	1:G:29:THR:CG2	2.68	0.41
1:H:171:THR:HG21	1:H:634:LYS:NZ	2.34	0.41
1:H:274:ILE:O	1:H:274:ILE:HG13	2.20	0.41
1:H:288:SER:O	1:H:289:LEU:C	2.63	0.41
1:H:381:PRO:C	1:H:382:ILE:O	2.63	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:556:SER:N	1:H:557:PRO:CD	2.82	0.41
1:I:36:LEU:HD11	1:N:613:LEU:HD21	2.02	0.41
5:I:649:MYR:H62	1:J:200:CYS:O	2.21	0.41
1:J:52:GLY:HA2	2:V:397:ALA:HB3	2.02	0.41
1:J:360:TYR:CE2	1:J:415:PRO:HG3	2.55	0.41
1:J:431:ILE:CG1	1:J:437:ILE:HD13	2.50	0.41
1:L:154:ARG:O	1:L:155:ASP:C	2.62	0.41
1:L:360:TYR:CE2	1:L:415:PRO:HG3	2.56	0.41
1:L:361:ASP:OD2	1:L:362:THR:HG23	2.20	0.41
1:N:282:VAL:HG21	1:N:474:THR:HB	2.02	0.41
1:N:288:SER:O	1:N:289:LEU:C	2.62	0.41
1:P:79:ARG:O	1:P:83:SER:HB2	2.20	0.41
1:P:96:PHE:CD1	1:P:159:TRP:CH2	3.08	0.41
1:P:214:ARG:HB2	1:P:215:TYR:CE2	2.55	0.41
1:P:361:ASP:OD2	1:P:362:THR:HG23	2.20	0.41
1:P:470:LEU:HD13	1:P:470:LEU:O	2.20	0.41
1:P:554:GLN:C	1:P:556:SER:H	2.28	0.41
1:P:634:LYS:HE3	1:P:634:LYS:HB2	1.89	0.41
1:Q:27:THR:HG22	1:Q:29:THR:HG23	2.02	0.41
1:Q:28:SER:O	1:Q:29:THR:CG2	2.68	0.41
1:R:273:LEU:HA	1:T:630:LEU:CD1	2.50	0.41
1:R:285:PHE:O	1:R:286:THR:C	2.63	0.41
1:R:289:LEU:HA	1:T:578:SER:O	2.20	0.41
1:R:360:TYR:HD2	1:R:360:TYR:C	2.24	0.41
1:R:420:LEU:HD11	1:R:422:LEU:CD2	2.49	0.41
1:R:603:GLY:C	1:R:605:GLY:N	2.75	0.41
1:S:9:ASN:CB	1:T:209:ASN:ND2	2.83	0.41
1:T:48:TRP:CZ3	1:T:123:ALA:N	2.89	0.41
1:T:466:VAL:HG11	1:T:502:LEU:CD2	2.50	0.41
1:T:576:PHE:HB2	1:T:591:LEU:HD21	2.02	0.41
3:W:126:LEU:C	3:W:128:ALA:N	2.78	0.41
3:W:240:LEU:HD22	3:W:289:TYR:CZ	2.55	0.41
3:W:248:LEU:HD21	4:X:647:ARG:NH2	2.35	0.41
3:W:646:LYS:NZ	3:W:648:THR:HG22	2.35	0.41
3:W:993:PRO:HG3	3:W:1017:ILE:HG21	2.01	0.41
3:W:1042:THR:HA	3:W:1043:PRO:HD3	1.87	0.41
4:X:303:GLN:HE21	4:X:303:GLN:HB2	1.47	0.41
4:X:352:THR:O	4:X:354:THR:N	2.48	0.41
4:X:389:GLU:OE2	4:X:1194:LEU:HD21	2.21	0.41
4:X:490:PRO:O	4:X:491:THR:C	2.63	0.41
4:X:530:LYS:O	4:X:534:SER:N	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:755:LEU:HD13	4:X:755:LEU:HA	1.95	0.41
4:X:835:HIS:NE2	4:X:839:LYS:NZ	2.69	0.41
4:Y:219:LEU:CD2	4:Y:350:LEU:HG	2.50	0.41
4:Y:355:LYS:HD2	4:Y:1149:THR:O	2.20	0.41
4:Y:399:ARG:C	4:Y:401:THR:H	2.28	0.41
4:Y:414:THR:HG23	4:Y:415:GLN:N	2.35	0.41
4:Y:468:ALA:O	4:Y:471:PRO:HD2	2.20	0.41
4:Y:483:VAL:HG11	4:Y:841:PHE:HE1	1.82	0.41
4:Y:993:TRP:HE1	4:Y:995:PRO:HG3	1.85	0.41
4:Y:1211:ARG:NH1	4:Y:1211:ARG:CG	2.83	0.41
1:B:235:LEU:HA	1:B:235:LEU:HD13	1.80	0.41
1:B:466:VAL:HG11	1:B:502:LEU:CD2	2.51	0.41
1:B:561:ASP:C	1:B:563:PRO:HD2	2.45	0.41
1:B:590:VAL:O	1:B:592:THR:N	2.52	0.41
1:D:105:PRO:HB3	1:F:125:ASP:HB3	2.03	0.41
1:D:252:LEU:HB3	1:D:613:LEU:HD23	2.02	0.41
1:D:312:ASN:ND2	1:D:314:SER:O	2.54	0.41
1:D:470:LEU:O	1:D:470:LEU:HD13	2.20	0.41
1:D:508:VAL:O	1:D:508:VAL:HG12	2.20	0.41
1:D:567:ARG:HB2	1:D:567:ARG:HH11	1.85	0.41
1:F:147:ARG:CB	1:F:147:ARG:CZ	2.98	0.41
1:F:370:VAL:O	1:F:370:VAL:CG2	2.67	0.41
1:H:293:SER:HB3	1:H:465:THR:HG23	2.01	0.41
1:H:361:ASP:OD2	1:H:362:THR:HG23	2.20	0.41
1:H:485:VAL:O	1:H:486:PRO:C	2.64	0.41
1:H:554:GLN:C	1:H:556:SER:H	2.28	0.41
1:H:561:ASP:C	1:H:563:PRO:HD2	2.45	0.41
1:H:576:PHE:HB2	1:H:591:LEU:HD21	2.03	0.41
1:H:616:GLY:O	1:H:620:ALA:HB2	2.20	0.41
1:J:62:ALA:O	1:J:63:ILE:C	2.62	0.41
1:J:163:LEU:HD11	1:J:211:ALA:HB2	2.01	0.41
1:J:336:THR:CG2	1:J:456:ASN:ND2	2.79	0.41
1:J:508:VAL:O	1:J:508:VAL:HG12	2.20	0.41
1:J:554:GLN:C	1:J:556:SER:H	2.28	0.41
1:J:561:ASP:C	1:J:563:PRO:HD2	2.45	0.41
1:J:578:SER:O	1:N:289:LEU:HA	2.20	0.41
1:K:26:MET:CG	1:L:216:PRO:HG3	2.29	0.41
1:L:105:PRO:HB3	1:N:125:ASP:HB3	2.03	0.41
1:L:143:MET:O	1:L:146:GLN:HB3	2.20	0.41
1:L:256:SER:OG	1:L:257:SER:N	2.51	0.41
1:L:266:MET:HE2	1:L:604:VAL:HG12	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:373:PHE:CD2	1:L:397:VAL:HG11	2.55	0.41
1:N:93:GLN:OE1	1:N:93:GLN:HA	2.19	0.41
1:N:161:LYS:HE3	1:N:165:THR:CG2	2.50	0.41
1:N:162:HIS:CD2	1:N:199:LEU:HB2	2.54	0.41
1:N:361:ASP:OD2	1:N:362:THR:HG23	2.20	0.41
1:N:456:ASN:HA	1:N:457:PRO:HD2	1.93	0.41
1:P:518:ALA:HB1	1:P:580:PRO:HG3	2.03	0.41
1:R:44:THR:CG2	1:R:45:GLY:N	2.82	0.41
1:R:105:PRO:HB3	1:T:125:ASP:HB3	2.03	0.41
1:R:282:VAL:HG21	1:R:474:THR:HB	2.02	0.41
1:R:357:ILE:CD1	1:R:414:GLN:HB3	2.50	0.41
1:R:609:ARG:CD	1:S:29:THR:CG2	2.93	0.41
1:T:431:ILE:CG1	1:T:437:ILE:HD13	2.50	0.41
2:U:118:VAL:O	2:U:118:VAL:HG13	2.20	0.41
2:U:196:LEU:HD11	4:X:672:SER:CB	2.51	0.41
2:U:302:GLU:CG	2:U:310:GLN:HE21	2.32	0.41
2:U:329:ASN:OD1	2:U:332:PRO:HD2	2.20	0.41
2:U:374:LEU:HD23	2:U:386:ILE:HG22	2.02	0.41
2:V:296:LEU:HA	2:V:297:PRO:HD3	1.94	0.41
3:W:220:LEU:HG	3:W:220:LEU:O	2.21	0.41
3:W:220:LEU:CD1	3:W:241:LEU:HD12	2.50	0.41
3:W:489:LYS:HG3	3:W:649:ILE:HD11	2.02	0.41
3:W:542:ILE:HA	3:W:543:PRO:HD2	1.90	0.41
3:W:563:LEU:N	3:W:563:LEU:CD1	2.83	0.41
3:W:959:ASN:HB2	3:W:962:GLU:HB2	2.02	0.41
3:W:984:ALA:CB	3:W:1030:THR:HA	2.50	0.41
3:W:1238:ARG:CZ	3:W:1274:ALA:HB1	2.50	0.41
4:X:218:GLU:HB3	4:X:219:LEU:HD22	2.03	0.41
4:X:350:LEU:HD23	4:X:357:ALA:CB	2.50	0.41
4:X:425:ASN:C	4:X:427:LEU:N	2.79	0.41
4:X:433:PRO:HD2	4:X:437:ARG:NH1	2.26	0.41
4:X:518:LEU:HD13	4:X:568:PHE:CZ	2.55	0.41
4:X:597:GLU:CA	4:X:597:GLU:OE2	2.69	0.41
4:Y:200:LEU:HA	4:Y:389:GLU:OE1	2.20	0.41
1:B:44:THR:CG2	1:B:45:GLY:N	2.82	0.41
1:B:62:ALA:O	1:B:63:ILE:C	2.62	0.41
1:B:101:THR:HG21	1:B:159:TRP:CZ2	2.55	0.41
1:B:431:ILE:O	1:B:431:ILE:HG23	2.10	0.41
1:D:616:GLY:O	1:D:620:ALA:HB2	2.19	0.41
5:E:649:MYR:H52	1:F:187:LEU:CD2	2.51	0.41
1:F:73:PHE:CB	1:F:119:VAL:HG21	2.49	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:79:ARG:CB	1:F:79:ARG:HH11	2.33	0.41
1:F:292:ARG:HB2	1:F:503:ALA:HB2	2.03	0.41
1:F:357:ILE:CD1	1:F:414:GLN:HB3	2.50	0.41
1:F:360:TYR:CE2	1:F:415:PRO:HG3	2.56	0.41
1:F:455:SER:O	1:F:456:ASN:HB3	2.21	0.41
1:G:27:THR:HG22	1:G:29:THR:HG23	2.02	0.41
1:H:285:PHE:O	1:H:286:THR:C	2.62	0.41
1:H:360:TYR:CE2	1:H:415:PRO:HG3	2.55	0.41
1:H:502:LEU:O	1:H:503:ALA:C	2.63	0.41
1:J:259:LEU:O	1:J:263:ILE:HG13	2.21	0.41
1:J:455:SER:O	1:J:456:ASN:HB3	2.21	0.41
1:J:469:VAL:O	1:J:469:VAL:HG22	2.20	0.41
1:J:502:LEU:O	1:J:503:ALA:C	2.63	0.41
1:J:576:PHE:HB2	1:J:591:LEU:HD21	2.02	0.41
1:L:156:VAL:HG13	1:L:157:ALA:N	2.35	0.41
1:L:273:LEU:HA	1:N:630:LEU:CD1	2.50	0.41
1:L:279:PRO:HA	1:L:484:ILE:O	2.20	0.41
1:L:420:LEU:HD11	1:L:422:LEU:CD2	2.49	0.41
1:N:565:LEU:HD23	1:N:565:LEU:N	2.34	0.41
1:N:596:MET:SD	1:N:596:MET:N	2.94	0.41
1:P:455:SER:O	1:P:456:ASN:HB3	2.21	0.41
1:P:502:LEU:O	1:P:503:ALA:C	2.63	0.41
1:R:343:ALA:CB	1:R:478:GLY:O	2.62	0.41
1:T:79:ARG:O	1:T:83:SER:HB2	2.20	0.41
1:T:166:ALA:HB2	1:T:194:LEU:HD11	2.02	0.41
1:T:171:THR:HG21	1:T:634:LYS:NZ	2.34	0.41
1:T:456:ASN:HA	1:T:457:PRO:HD2	1.93	0.41
1:T:470:LEU:HD21	1:T:472:ARG:HD3	2.02	0.41
1:T:547:HIS:ND1	1:T:547:HIS:C	2.78	0.41
2:U:158:HIS:CG	2:U:297:PRO:HG2	2.55	0.41
2:U:179:GLY:O	2:U:247:VAL:HG13	2.20	0.41
2:U:196:LEU:HD21	4:X:448:SER:CB	2.50	0.41
2:U:240:ALA:C	2:U:241:LEU:HD23	2.46	0.41
2:V:175:MET:HE1	4:Y:400:GLU:OE2	2.19	0.41
2:V:211:LEU:CD1	2:V:248:LEU:HD22	2.51	0.41
3:W:43:LEU:HD11	3:W:64:PRO:HG2	2.01	0.41
3:W:162:SER:CA	3:W:171:THR:HG22	2.37	0.41
3:W:271:ARG:HH21	3:W:328:PRO:CG	2.32	0.41
3:W:310:LEU:HD13	3:W:310:LEU:C	2.46	0.41
3:W:377:ARG:HE	3:W:377:ARG:HB2	1.51	0.41
3:W:509:VAL:O	3:W:510:LEU:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:961:GLY:C	3:W:963:ARG:N	2.77	0.41
3:W:1160:TYR:HE2	3:W:1218:ARG:NH1	2.17	0.41
3:W:1204:LEU:HD12	3:W:1222:PRO:HB2	2.01	0.41
4:X:459:LEU:HD22	4:X:540:LEU:HD11	2.02	0.41
4:X:569:LEU:HD23	4:X:815:PRO:HG2	2.03	0.41
4:X:742:MET:HE2	4:X:745:PHE:CB	2.49	0.41
4:X:837:TYR:O	4:X:838:GLY:C	2.62	0.41
4:X:1075:LEU:HD23	4:X:1076:VAL:C	2.46	0.41
4:Y:247:THR:OG1	4:Y:260:GLU:HB3	2.21	0.41
4:Y:277:VAL:HG21	4:Y:295:SER:C	2.46	0.41
4:Y:301:LEU:HD11	4:Y:968:PHE:HB2	2.02	0.41
4:Y:478:THR:O	4:Y:479:LEU:C	2.63	0.41
4:Y:621:TRP:HB2	4:Y:776:GLN:HE21	1.85	0.41
4:Y:1033:ASP:CB	4:Y:1037:VAL:O	2.68	0.41
1:B:156:VAL:O	1:B:157:ALA:C	2.64	0.41
1:B:351:LEU:HA	1:B:464:LEU:HA	2.03	0.41
1:B:360:TYR:CE2	1:B:415:PRO:HG3	2.55	0.41
1:B:369:SER:OG	1:B:443:PHE:CD2	2.64	0.41
1:B:455:SER:O	1:B:456:ASN:HB3	2.21	0.41
1:B:588:ILE:HD13	1:B:588:ILE:HA	1.80	0.41
1:D:360:TYR:CE2	1:D:415:PRO:HG3	2.55	0.41
1:E:26:MET:CG	1:F:216:PRO:CG	2.95	0.41
1:F:431:ILE:CG1	1:F:437:ILE:HD13	2.50	0.41
1:F:445:ILE:HG22	1:F:447:SER:H	1.86	0.41
1:F:469:VAL:O	1:F:469:VAL:HG22	2.20	0.41
1:F:470:LEU:O	1:F:470:LEU:HD13	2.20	0.41
1:F:485:VAL:O	1:F:486:PRO:C	2.64	0.41
1:H:164:ASP:C	1:H:166:ALA:H	2.29	0.41
1:H:214:ARG:HB2	1:H:215:TYR:CE2	2.55	0.41
1:H:279:PRO:HA	1:H:484:ILE:O	2.20	0.41
1:J:96:PHE:CD1	1:J:159:TRP:CH2	3.08	0.41
1:J:144:ASN:O	1:J:145:LEU:C	2.62	0.41
1:J:431:ILE:HD11	1:J:437:ILE:CG2	2.45	0.41
1:J:466:VAL:HG11	1:J:502:LEU:CD2	2.51	0.41
1:J:580:PRO:CD	1:N:289:LEU:HD13	2.50	0.41
1:J:596:MET:SD	1:J:596:MET:N	2.94	0.41
1:K:28:SER:O	1:K:29:THR:CG2	2.68	0.41
1:L:214:ARG:HB2	1:L:215:TYR:CE2	2.55	0.41
1:L:466:VAL:HG11	1:L:502:LEU:CD2	2.51	0.41
1:L:554:GLN:C	1:L:556:SER:H	2.28	0.41
1:L:567:ARG:HB2	1:L:567:ARG:HH11	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:137:ILE:CG1	1:N:142:ILE:HG13	2.50	0.41
1:N:292:ARG:HB2	1:N:503:ALA:HB2	2.03	0.41
1:N:312:ASN:ND2	1:N:314:SER:O	2.54	0.41
1:O:28:SER:C	1:O:29:THR:HG23	2.45	0.41
1:P:274:ILE:O	1:P:274:ILE:HG13	2.20	0.41
1:P:373:PHE:CD2	1:P:397:VAL:HG11	2.55	0.41
1:P:508:VAL:O	1:P:508:VAL:HG12	2.20	0.41
1:P:580:PRO:CD	1:T:289:LEU:HD13	2.50	0.41
1:P:613:LEU:HD21	1:Q:36:LEU:HD11	2.03	0.41
1:Q:28:SER:C	1:Q:29:THR:HG23	2.45	0.41
1:R:355:GLY:HA2	1:T:298:PHE:CE1	2.47	0.41
1:R:418:ASN:ND2	1:T:337:ARG:NH2	2.55	0.41
1:R:582:LEU:HD23	1:R:582:LEU:HA	1.70	0.41
1:T:106:ILE:CD1	1:T:152:ARG:HG3	2.44	0.41
1:T:164:ASP:C	1:T:166:ALA:H	2.29	0.41
1:T:445:ILE:HG22	1:T:447:SER:H	1.86	0.41
2:U:39:SER:HB2	4:X:954:PRO:HB2	2.02	0.41
2:U:112:TRP:CG	2:U:113:ALA:N	2.89	0.41
2:U:245:GLN:NE2	2:U:245:GLN:CA	2.83	0.41
2:U:267:ILE:HG12	2:U:326:LEU:HB2	2.01	0.41
3:W:19:ARG:NH2	3:W:368:PRO:HB3	2.35	0.41
3:W:405:ARG:HH12	3:W:779:MET:HG3	1.86	0.41
3:W:812:ALA:C	3:W:814:GLY:N	2.74	0.41
3:W:896:ILE:HD11	3:W:1025:ILE:HD13	2.02	0.41
3:W:956:TYR:O	3:W:957:ARG:HG3	2.21	0.41
4:X:205:MET:HE2	4:X:207:LEU:HB2	2.01	0.41
4:X:317:PHE:CZ	4:X:331:ARG:HD3	2.55	0.41
4:X:587:MET:HE3	4:X:590:ALA:HB3	2.03	0.41
4:X:633:PRO:C	4:X:635:GLN:N	2.79	0.41
4:X:743:THR:N	4:X:744:PRO:CD	2.83	0.41
4:X:864:PHE:HA	4:X:920:LEU:CD2	2.48	0.41
4:X:874:CYS:CB	4:X:901:ILE:HD13	2.50	0.41
4:X:1013:VAL:HB	4:X:1034:ASP:HB2	2.02	0.41
4:Y:276:THR:O	4:Y:277:VAL:C	2.63	0.41
4:Y:278:LEU:CD1	4:Y:891:PHE:CZ	3.03	0.41
4:Y:410:HIS:HE2	4:Y:413:PRO:HD3	1.85	0.41
4:Y:596:PRO:CB	4:Y:716:ASN:HD22	2.30	0.41
4:Y:606:MET:SD	4:Y:620:VAL:HG13	2.61	0.41
4:Y:686:ARG:O	4:Y:687:LEU:C	2.64	0.41
4:Y:915:LEU:HD12	4:Y:915:LEU:HA	1.79	0.41
4:Y:986:GLN:HG3	4:Y:1135:TYR:HE1	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:1205:ASP:OD1	4:Y:1205:ASP:N	2.52	0.41
1:A:13:ILE:CD1	5:A:649:MYR:H111	2.45	0.41
5:A:649:MYR:H62	1:B:200:CYS:O	2.21	0.41
1:B:48:TRP:CZ3	1:B:123:ALA:N	2.89	0.41
1:B:259:LEU:O	1:B:263:ILE:HG13	2.21	0.41
1:B:282:VAL:HG21	1:B:474:THR:HB	2.02	0.41
1:C:27:THR:HG22	1:C:29:THR:HG23	2.02	0.41
1:D:268:GLY:O	1:D:270:ASP:N	2.54	0.41
1:D:332:GLY:HA3	1:D:456:ASN:HA	2.01	0.41
1:D:341:MET:CG	1:D:431:ILE:HD11	2.49	0.41
1:D:576:PHE:HB2	1:D:591:LEU:HD21	2.02	0.41
1:F:48:TRP:CZ3	1:F:123:ALA:N	2.89	0.41
1:F:101:THR:HG21	1:F:159:TRP:CZ2	2.55	0.41
1:F:105:PRO:HB3	1:H:125:ASP:HB3	2.03	0.41
1:F:238:VAL:HG21	1:H:78:MET:HE2	1.83	0.41
1:F:289:LEU:HD13	1:H:580:PRO:CD	2.51	0.41
1:H:93:GLN:OE1	1:H:93:GLN:HA	2.19	0.41
1:H:262:ALA:HB1	1:H:608:LEU:HD13	2.03	0.41
1:H:582:LEU:HD23	1:H:582:LEU:HA	1.70	0.41
1:I:41:LEU:O	1:I:42:ASN:CB	2.37	0.41
1:J:79:ARG:O	1:J:83:SER:HB2	2.20	0.41
1:J:92:TRP:CD2	1:J:210:VAL:HG11	2.54	0.41
1:J:93:GLN:OE1	1:J:93:GLN:HA	2.19	0.41
1:J:105:PRO:HB3	1:L:125:ASP:HB3	2.03	0.41
1:L:101:THR:HG21	1:L:159:TRP:CZ2	2.55	0.41
1:L:312:ASN:ND2	1:L:314:SER:O	2.54	0.41
1:L:469:VAL:O	1:L:469:VAL:HG22	2.20	0.41
1:L:470:LEU:O	1:L:470:LEU:HD13	2.20	0.41
1:N:137:ILE:HG12	1:N:142:ILE:HG13	2.02	0.41
1:N:144:ASN:O	1:N:145:LEU:C	2.62	0.41
1:N:262:ALA:HB1	1:N:608:LEU:HD13	2.03	0.41
1:N:455:SER:O	1:N:456:ASN:HB3	2.21	0.41
1:P:44:THR:CG2	1:P:45:GLY:N	2.82	0.41
1:P:178:SER:HB3	1:P:179:ALA:H	1.65	0.41
1:P:318:LYS:HG3	1:P:319:THR:H	1.84	0.41
1:P:431:ILE:HD11	1:P:437:ILE:CG2	2.45	0.41
1:Q:9:ASN:CB	1:R:209:ASN:ND2	2.83	0.41
1:R:58:ILE:O	1:R:58:ILE:CG2	2.62	0.41
1:R:101:THR:HG21	1:R:159:TRP:CZ2	2.55	0.41
1:R:237:GLU:CB	1:T:46:LYS:NZ	2.68	0.41
1:R:352:ASP:OD1	1:R:352:ASP:C	2.62	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:576:PHE:HB2	1:R:591:LEU:HD21	2.02	0.41
1:T:470:LEU:O	1:T:470:LEU:HD13	2.20	0.41
1:T:485:VAL:O	1:T:486:PRO:C	2.64	0.41
1:T:561:ASP:C	1:T:563:PRO:HD2	2.45	0.41
2:U:30:ALA:CA	2:U:36:PRO:HB3	2.35	0.41
2:U:96:VAL:HA	2:U:135:MET:HE2	2.03	0.41
2:U:170:THR:HG22	2:U:170:THR:O	2.20	0.41
2:U:174:LEU:CD2	2:U:211:LEU:HD23	2.51	0.41
3:W:1080:SER:HB2	3:W:1083:GLY:O	2.21	0.41
3:W:1102:PRO:HG3	3:W:1127:ILE:HD12	2.01	0.41
3:W:1199:ALA:HB2	3:W:1296:TYR:CE2	2.55	0.41
4:X:311:ILE:HD11	4:X:406:LEU:HD23	2.03	0.41
4:X:638:LEU:HD12	4:X:638:LEU:HA	1.90	0.41
4:X:725:THR:HG23	4:X:726:ARG:N	2.34	0.41
4:X:882:PRO:O	4:X:884:PRO:HD3	2.20	0.41
4:X:1020:ILE:HD12	4:X:1062:TYR:HD2	1.84	0.41
4:X:1150:ASN:O	4:X:1151:ALA:C	2.63	0.41
4:X:1172:LEU:HG	4:X:1173:VAL:HG13	2.02	0.41
4:Y:78:ILE:N	4:Y:78:ILE:CD1	2.83	0.41
4:Y:453:LEU:CD1	4:Y:952:PRO:HD3	2.50	0.41
4:Y:596:PRO:CB	4:Y:716:ASN:ND2	2.83	0.41
4:Y:996:MET:HG2	4:Y:1119:ILE:HD11	2.02	0.41
4:Y:1100:LEU:O	4:Y:1103:TRP:CB	2.69	0.41
1:B:292:ARG:HB2	1:B:503:ALA:HB2	2.03	0.41
1:B:471:LEU:O	1:B:472:ARG:C	2.64	0.41
1:C:9:ASN:CB	1:D:209:ASN:ND2	2.83	0.41
1:C:28:SER:O	1:C:29:THR:CG2	2.68	0.41
1:D:351:LEU:HA	1:D:464:LEU:HA	2.03	0.41
1:D:561:ASP:C	1:D:563:PRO:HD2	2.45	0.41
1:F:79:ARG:HH22	1:F:135:VAL:HG21	1.86	0.41
1:F:332:GLY:HA3	1:F:456:ASN:HA	2.01	0.41
5:G:649:MYR:H62	1:H:200:CYS:O	2.21	0.41
1:H:266:MET:HE2	1:H:604:VAL:HG12	2.03	0.41
1:H:268:GLY:O	1:H:270:ASP:N	2.54	0.41
1:H:312:ASN:ND2	1:H:314:SER:O	2.54	0.41
1:H:351:LEU:HA	1:H:464:LEU:HA	2.03	0.41
1:I:13:ILE:CD1	5:I:649:MYR:H111	2.45	0.41
1:J:199:LEU:HD11	1:J:203:TYR:CE2	2.54	0.41
1:J:351:LEU:HA	1:J:464:LEU:HA	2.03	0.41
1:J:470:LEU:O	1:J:470:LEU:HD13	2.20	0.41
1:J:588:ILE:HD13	1:J:588:ILE:HA	1.80	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:106:ILE:CD1	1:L:152:ARG:HG3	2.44	0.41
1:L:268:GLY:O	1:L:270:ASP:N	2.54	0.41
1:L:556:SER:N	1:L:557:PRO:CD	2.82	0.41
1:L:610:THR:O	1:L:611:GLY:C	2.64	0.41
1:N:470:LEU:HD13	1:N:470:LEU:O	2.20	0.41
1:N:518:ALA:HB1	1:N:580:PRO:HG3	2.03	0.41
1:P:73:PHE:CB	1:P:119:VAL:HG21	2.49	0.41
1:P:125:ASP:HB3	1:T:105:PRO:HB3	2.03	0.41
1:P:312:ASN:ND2	1:P:314:SER:O	2.54	0.41
1:P:336:THR:CG2	1:P:456:ASN:ND2	2.79	0.41
1:P:355:GLY:CA	1:R:298:PHE:CZ	2.80	0.41
1:R:152:ARG:NH1	1:R:155:ASP:OD2	2.53	0.41
1:R:156:VAL:O	1:R:157:ALA:C	2.64	0.41
1:R:156:VAL:HG13	1:R:157:ALA:N	2.35	0.41
1:R:262:ALA:HB1	1:R:608:LEU:HD13	2.03	0.41
1:R:381:PRO:C	1:R:382:ILE:O	2.63	0.41
1:R:455:SER:O	1:R:456:ASN:HB3	2.21	0.41
1:T:79:ARG:CB	1:T:79:ARG:HH11	2.33	0.41
1:T:188:ALA:HA	1:T:191:LYS:HD2	2.02	0.41
1:T:292:ARG:HB2	1:T:503:ALA:HB2	2.03	0.41
1:T:596:MET:SD	1:T:596:MET:N	2.94	0.41
2:U:40:ARG:NH2	2:U:69:ASN:HD21	2.16	0.41
2:U:54:TRP:CZ3	2:U:276:HIS:HE1	2.38	0.41
2:V:107:GLN:N	2:V:108:PRO:HD3	2.35	0.41
2:V:124:ASN:HD22	2:V:124:ASN:HA	1.66	0.41
3:W:178:ILE:HD13	3:W:178:ILE:H	1.86	0.41
3:W:225:THR:HA	3:W:293:THR:O	2.21	0.41
3:W:240:LEU:CD2	3:W:261:LEU:HD13	2.50	0.41
3:W:246:ASP:N	3:W:246:ASP:OD1	2.54	0.41
3:W:376:PHE:CD1	3:W:376:PHE:C	2.98	0.41
3:W:1012:ASP:O	3:W:1015:THR:N	2.53	0.41
4:X:371:LEU:HD12	4:X:371:LEU:N	2.34	0.41
4:X:440:ILE:HG13	4:X:440:ILE:O	2.20	0.41
4:X:607:HIS:C	4:X:609:THR:N	2.79	0.41
4:X:628:PRO:CG	4:X:647:ARG:HD3	2.49	0.41
4:X:651:PRO:O	4:X:773:ARG:CG	2.69	0.41
4:X:985:VAL:HG12	4:X:1073:ARG:HB3	2.01	0.41
4:X:1124:VAL:HG12	4:X:1153:SER:CB	2.51	0.41
4:Y:119:CYS:HB3	4:Y:123:ASN:CA	2.51	0.41
4:Y:425:ASN:C	4:Y:427:LEU:H	2.29	0.41
4:Y:485:PRO:HD3	4:Y:837:TYR:HE2	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Y:688:THR:OG1	4:Y:691:PRO:HD2	2.21	0.41
4:Y:717:MET:HA	4:Y:717:MET:CE	2.44	0.41
4:Y:729:MET:HE2	4:Y:729:MET:N	2.35	0.41
4:Y:1015:GLY:HA2	4:Y:1034:ASP:HA	2.03	0.41
1:B:73:PHE:CB	1:B:119:VAL:HG21	2.49	0.41
1:B:96:PHE:CD1	1:B:159:TRP:CH2	3.08	0.41
1:B:214:ARG:HB2	1:B:215:TYR:CE2	2.55	0.41
1:B:489:VAL:HG12	1:B:489:VAL:O	2.21	0.41
1:C:36:LEU:HD11	1:H:613:LEU:HD21	2.03	0.41
1:D:101:THR:HG21	1:D:159:TRP:CZ2	2.55	0.41
1:D:156:VAL:HG13	1:D:157:ALA:N	2.35	0.41
1:D:289:LEU:HD13	1:F:580:PRO:CD	2.50	0.41
1:D:370:VAL:O	1:D:370:VAL:CG2	2.67	0.41
1:D:455:SER:O	1:D:456:ASN:HB3	2.21	0.41
1:F:93:GLN:OE1	1:F:93:GLN:HA	2.19	0.41
1:F:259:LEU:O	1:F:263:ILE:HG13	2.21	0.41
1:F:271:LEU:HD12	1:F:271:LEU:HA	1.79	0.41
1:F:279:PRO:HA	1:F:484:ILE:O	2.20	0.41
1:F:289:LEU:HA	1:H:578:SER:O	2.20	0.41
1:F:336:THR:CG2	1:F:456:ASN:ND2	2.79	0.41
1:F:390:ASN:HD22	1:F:390:ASN:HA	1.60	0.41
1:F:567:ARG:HB2	1:F:567:ARG:HH11	1.85	0.41
5:G:649:MYR:C7	1:H:200:CYS:O	2.69	0.41
1:H:47:LEU:C	1:H:48:TRP:CD1	2.99	0.41
1:H:471:LEU:O	1:H:472:ARG:C	2.63	0.41
5:I:649:MYR:C7	1:J:200:CYS:O	2.69	0.41
5:I:649:MYR:H131	1:J:163:LEU:HD11	2.02	0.41
1:J:48:TRP:CZ3	1:J:123:ALA:N	2.89	0.41
1:J:341:MET:HB2	1:J:437:ILE:CG2	2.35	0.41
1:J:418:ASN:HD22	1:J:418:ASN:HA	1.50	0.41
1:K:28:SER:C	1:K:29:THR:HG23	2.45	0.41
5:K:649:MYR:H52	1:L:187:LEU:CD2	2.51	0.41
1:L:46:LYS:HD3	1:L:70:GLN:OE1	2.19	0.41
1:L:48:TRP:CZ3	1:L:123:ALA:N	2.89	0.41
1:L:62:ALA:O	1:L:63:ILE:C	2.62	0.41
1:L:163:LEU:HD11	1:L:211:ALA:HB2	2.01	0.41
1:L:282:VAL:HG21	1:L:474:THR:HB	2.02	0.41
1:L:292:ARG:HG2	1:L:292:ARG:NH1	2.32	0.41
1:L:370:VAL:O	1:L:370:VAL:CG2	2.67	0.41
1:L:455:SER:O	1:L:456:ASN:HB3	2.21	0.41
1:L:485:VAL:O	1:L:486:PRO:C	2.64	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:L:596:MET:SD	1:L:596:MET:N	2.94	0.41
1:L:624:LEU:C	1:L:624:LEU:CD2	2.94	0.41
1:N:101:THR:HG21	1:N:159:TRP:CZ2	2.55	0.41
1:N:171:THR:HG21	1:N:634:LYS:NZ	2.34	0.41
1:N:252:LEU:HB3	1:N:613:LEU:HD23	2.02	0.41
1:N:274:ILE:O	1:N:274:ILE:HG13	2.20	0.41
1:N:373:PHE:CD2	1:N:397:VAL:HG11	2.55	0.41
1:N:445:ILE:HG22	1:N:447:SER:H	1.86	0.41
1:N:547:HIS:ND1	1:N:547:HIS:C	2.78	0.41
1:N:554:GLN:C	1:N:556:SER:H	2.28	0.41
1:N:561:ASP:C	1:N:563:PRO:HD2	2.45	0.41
1:N:576:PHE:HB2	1:N:591:LEU:HD21	2.03	0.41
1:O:28:SER:O	1:O:29:THR:CG2	2.68	0.41
1:O:36:LEU:HD11	1:T:613:LEU:HD21	2.03	0.41
1:P:101:THR:HG21	1:P:159:TRP:CZ2	2.55	0.41
1:P:154:ARG:O	1:P:155:ASP:C	2.62	0.41
1:P:268:GLY:O	1:P:270:ASP:N	2.54	0.41
1:P:289:LEU:HA	1:R:578:SER:O	2.20	0.41
1:P:297:ALA:O	1:T:409:ILE:HD11	2.17	0.41
1:P:456:ASN:HA	1:P:457:PRO:HD2	1.93	0.41
1:P:466:VAL:HG11	1:P:502:LEU:CD2	2.51	0.41
1:P:561:ASP:C	1:P:563:PRO:HD2	2.45	0.41
1:R:48:TRP:CZ3	1:R:123:ALA:N	2.89	0.41
1:R:57:THR:HB	1:R:59:ASP:OD2	2.21	0.41
1:R:147:ARG:CB	1:R:147:ARG:CZ	2.98	0.41
1:R:194:LEU:HA	1:R:195:PRO:HD2	1.98	0.41
1:R:274:ILE:O	1:R:274:ILE:HG13	2.20	0.41
1:R:332:GLY:HA3	1:R:333:PRO:HD2	1.90	0.41
1:R:518:ALA:HB1	1:R:580:PRO:HG3	2.03	0.41
1:R:547:HIS:ND1	1:R:547:HIS:C	2.78	0.41
1:R:567:ARG:HB2	1:R:567:ARG:HH11	1.85	0.41
1:S:27:THR:HG22	1:S:29:THR:HG23	2.02	0.41
1:T:163:LEU:HD11	1:T:211:ALA:HB2	2.01	0.41
1:T:235:LEU:HA	1:T:235:LEU:HD13	1.80	0.41
1:T:268:GLY:O	1:T:270:ASP:N	2.54	0.41
1:T:312:ASN:ND2	1:T:314:SER:O	2.54	0.41
1:T:401:GLY:O	1:T:402:ALA:CB	2.66	0.41
2:U:13:PHE:CD1	2:U:17:PRO:O	2.73	0.41
2:U:51:LEU:CB	2:U:53:VAL:HG13	2.48	0.41
2:U:150:LEU:HD23	2:U:150:LEU:HA	1.93	0.41
2:U:160:GLU:C	2:U:161:VAL:HG22	2.46	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:W:4:VAL:O	3:W:5:PHE:HB2	2.20	0.41
3:W:207:TYR:CZ	3:W:237:PRO:HB2	2.55	0.41
3:W:393:ASP:HB3	3:W:791:PHE:O	2.20	0.41
3:W:885:TRP:HH2	3:W:921:ILE:HD11	1.86	0.41
3:W:956:TYR:O	3:W:964:VAL:HG13	2.21	0.41
3:W:967:TYR:CD1	3:W:967:TYR:C	2.99	0.41
3:W:1071:ILE:HA	3:W:1079:ILE:O	2.21	0.41
3:W:1074:THR:O	3:W:1075:PRO:C	2.64	0.41
4:X:329:MET:O	4:X:330:ILE:C	2.64	0.41
4:X:390:LEU:HG	4:X:1190:LEU:O	2.20	0.41
4:X:406:LEU:HD12	4:X:406:LEU:HA	1.86	0.41
4:X:488:LEU:HA	4:X:488:LEU:HD13	1.72	0.41
4:X:510:PRO:HA	4:X:513:GLU:OE1	2.21	0.41
4:X:541:VAL:HA	4:X:809:ALA:O	2.21	0.41
4:X:620:VAL:HG13	4:Y:715:VAL:CG1	2.51	0.41
4:X:681:ASN:ND2	4:X:752:PRO:CB	2.84	0.41
4:X:722:ASN:OD1	4:X:723:ASP:N	2.53	0.41
4:X:795:ASP:O	4:X:798:VAL:HG22	2.21	0.41
4:X:855:GLN:O	4:X:856:ARG:C	2.63	0.41
4:X:1014:VAL:HG21	4:X:1047:TYR:CE1	2.55	0.41
4:X:1084:THR:O	4:X:1116:PRO:HA	2.21	0.41
4:Y:128:THR:O	4:Y:129:MET:C	2.63	0.41
4:Y:257:ARG:O	4:Y:258:GLY:C	2.62	0.41
4:Y:284:ASP:C	4:Y:286:ALA:H	2.27	0.41
4:Y:336:ARG:HA	4:Y:337:PRO:HD2	1.93	0.41
4:Y:579:PRO:HG3	4:Y:807:PHE:CE2	2.55	0.41
4:Y:593:LEU:HD12	4:Y:597:GLU:HG3	2.02	0.41
4:Y:633:PRO:HD3	4:Y:640:ARG:HD3	2.02	0.41
4:Y:715:VAL:O	4:Y:718:THR:HG22	2.20	0.41
4:Y:725:THR:O	4:Y:729:MET:HG2	2.21	0.41
4:Y:773:ARG:O	4:Y:774:LEU:HB2	2.20	0.41
4:Y:1059:PHE:HA	4:Y:1063:VAL:CG1	2.51	0.41
4:Y:1100:LEU:HD22	4:Y:1104:LEU:HD21	2.03	0.41
4:Y:1102:GLU:OE2	4:Y:1106:LYS:HE3	2.21	0.41
4:Y:1123:GLN:HB2	4:Y:1158:PHE:HB3	2.03	0.41
4:Y:1211:ARG:O	4:Y:1212:SER:CB	2.69	0.41
1:B:361:ASP:OD2	1:B:362:THR:HG23	2.20	0.41
1:B:518:ALA:HB1	1:B:580:PRO:HG3	2.03	0.41
1:B:596:MET:SD	1:B:596:MET:N	2.94	0.41
1:D:229:ASP:O	1:D:231:GLN:N	2.54	0.41
1:D:469:VAL:O	1:D:469:VAL:HG22	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:57:THR:HB	1:F:59:ASP:OD2	2.21	0.41
1:F:58:ILE:HG23	1:F:124:GLY:CA	2.42	0.41
1:F:229:ASP:O	1:F:231:GLN:N	2.54	0.41
1:F:489:VAL:O	1:F:489:VAL:HG12	2.21	0.41
1:H:229:ASP:O	1:H:231:GLN:N	2.54	0.41
1:H:252:LEU:HB3	1:H:613:LEU:HD23	2.02	0.41
1:H:582:LEU:HD23	1:H:585:GLN:HE22	1.83	0.41
1:H:624:LEU:C	1:H:624:LEU:CD2	2.94	0.41
1:J:268:GLY:O	1:J:270:ASP:N	2.54	0.41
5:K:649:MYR:H42	1:L:187:LEU:HD22	2.03	0.41
1:L:79:ARG:CB	1:L:79:ARG:HH11	2.33	0.41
1:L:381:PRO:C	1:L:382:ILE:O	2.63	0.41
1:L:547:HIS:ND1	1:L:547:HIS:C	2.78	0.41
1:N:73:PHE:CB	1:N:119:VAL:HG21	2.49	0.41
1:N:142:ILE:O	1:N:142:ILE:CG2	2.69	0.41
1:N:259:LEU:O	1:N:263:ILE:HG13	2.21	0.41
1:N:332:GLY:HA3	1:N:456:ASN:HA	2.01	0.41
1:N:485:VAL:O	1:N:486:PRO:C	2.64	0.41
1:O:26:MET:CG	1:P:216:PRO:CG	2.95	0.41
1:P:67:ARG:CG	1:P:67:ARG:NH1	2.84	0.41
1:P:93:GLN:OE1	1:P:93:GLN:HA	2.19	0.41
1:P:124:GLY:HA3	1:T:105:PRO:HG2	2.03	0.41
1:P:229:ASP:O	1:P:231:GLN:N	2.54	0.41
1:P:262:ALA:HB1	1:P:608:LEU:HD13	2.03	0.41
1:P:282:VAL:HG21	1:P:474:THR:HB	2.02	0.41
1:P:609:ARG:CD	1:Q:29:THR:HG21	2.47	0.41
1:R:292:ARG:HB2	1:R:503:ALA:HB2	2.03	0.41
1:R:466:VAL:HG11	1:R:502:LEU:CD2	2.51	0.41
1:S:23:THR:C	1:S:25:ASP:N	2.75	0.41
5:S:649:MYR:H62	1:T:200:CYS:O	2.21	0.41
1:T:351:LEU:HA	1:T:464:LEU:HA	2.03	0.41
1:T:455:SER:O	1:T:456:ASN:HB3	2.21	0.41
2:U:124:ASN:HA	3:W:353:ARG:HH12	1.86	0.41
2:U:181:PRO:HG3	4:X:384:MET:CE	2.50	0.41
2:U:328:TYR:HB2	2:U:333:MET:HE2	2.03	0.41
3:W:570:VAL:HA	3:W:571:PRO:HD3	1.90	0.41
3:W:650:VAL:CG1	3:W:651:ASN:N	2.81	0.41
3:W:732:LEU:CD1	3:W:780:LEU:HD22	2.50	0.41
3:W:1019:TYR:CD2	3:W:1019:TYR:O	2.74	0.41
3:W:1053:THR:HG23	3:W:1095:GLU:OE1	2.21	0.41
3:W:1258:MET:CG	3:W:1259:SER:N	2.82	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:638:LEU:HD11	4:X:711:VAL:HA	2.02	0.41
4:X:784:LEU:HD22	4:X:800:ILE:HG23	2.03	0.41
4:X:1004:PHE:CZ	4:X:1075:LEU:HB2	2.56	0.41
4:X:1178:ARG:O	4:X:1181:THR:HG23	2.21	0.41
4:Y:374:ALA:CB	4:Y:377:ILE:HD11	2.25	0.41
4:Y:550:PHE:CD2	4:Y:612:ALA:HB3	2.56	0.41
4:Y:615:PHE:CD2	4:Y:620:VAL:HG12	2.56	0.41
4:Y:873:GLN:NE2	4:Y:965:GLU:OE1	2.48	0.41
4:Y:1072:THR:HG22	4:Y:1073:ARG:N	2.35	0.41
4:Y:1090:PRO:HB2	4:Y:1129:THR:HG22	2.02	0.41
1:B:47:LEU:C	1:B:48:TRP:CD1	2.99	0.40
1:B:93:GLN:OE1	1:B:93:GLN:HA	2.19	0.40
1:B:193:ILE:H	1:B:193:ILE:HG12	1.55	0.40
1:B:610:THR:O	1:B:611:GLY:C	2.64	0.40
1:D:463:LEU:HD23	1:D:463:LEU:O	2.22	0.40
5:E:649:MYR:H42	1:F:187:LEU:HD22	2.03	0.40
1:F:47:LEU:C	1:F:48:TRP:CD1	2.99	0.40
1:F:431:ILE:O	1:F:431:ILE:HG23	2.10	0.40
1:F:463:LEU:HD23	1:F:463:LEU:O	2.21	0.40
1:F:576:PHE:HB2	1:F:591:LEU:HD21	2.02	0.40
1:F:582:LEU:HD23	1:F:585:GLN:HE22	1.83	0.40
1:H:57:THR:HB	1:H:59:ASP:OD2	2.21	0.40
1:H:193:ILE:H	1:H:193:ILE:HG12	1.55	0.40
1:H:489:VAL:O	1:H:489:VAL:HG12	2.21	0.40
1:J:47:LEU:C	1:J:48:TRP:CD1	2.99	0.40
1:J:156:VAL:HG13	1:J:157:ALA:N	2.35	0.40
1:J:485:VAL:O	1:J:486:PRO:C	2.64	0.40
1:J:582:LEU:HD23	1:J:585:GLN:HE22	1.83	0.40
1:J:616:GLY:O	1:J:620:ALA:HB2	2.20	0.40
1:L:44:THR:CG2	1:L:45:GLY:N	2.82	0.40
1:L:259:LEU:O	1:L:263:ILE:HG13	2.21	0.40
1:L:508:VAL:O	1:L:508:VAL:HG12	2.20	0.40
1:L:582:LEU:C	1:L:584:LEU:N	2.79	0.40
1:N:47:LEU:C	1:N:48:TRP:CD1	2.99	0.40
1:N:199:LEU:HD11	1:N:203:TYR:CE2	2.54	0.40
1:N:588:ILE:HD13	1:N:588:ILE:HA	1.80	0.40
1:P:47:LEU:C	1:P:48:TRP:CD1	2.99	0.40
1:P:48:TRP:CZ3	1:P:123:ALA:N	2.89	0.40
1:P:78:MET:HE2	1:T:238:VAL:CG1	2.45	0.40
1:P:343:ALA:CB	1:P:478:GLY:O	2.62	0.40
1:P:373:PHE:O	1:P:397:VAL:HG12	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:P:445:ILE:HG22	1:P:447:SER:H	1.86	0.40
1:R:166:ALA:HB2	1:R:194:LEU:HD11	2.02	0.40
1:R:373:PHE:O	1:R:397:VAL:HG12	2.22	0.40
1:R:373:PHE:CD2	1:R:397:VAL:HG11	2.55	0.40
1:T:373:PHE:O	1:T:397:VAL:HG12	2.21	0.40
1:T:508:VAL:O	1:T:508:VAL:HG12	2.20	0.40
2:U:136:TRP:CD2	2:U:197:PRO:HG3	2.56	0.40
2:U:242:ASN:ND2	2:U:244:ASP:HB3	2.26	0.40
2:V:182:ILE:HG21	2:V:279:VAL:HG23	2.02	0.40
3:W:10:VAL:HA	3:W:11:PRO:HD3	1.88	0.40
3:W:14:ASN:HB3	3:W:319:GLN:HE21	1.81	0.40
3:W:250:TYR:HB2	3:W:255:ILE:HD12	2.02	0.40
3:W:369:ILE:HG22	3:W:370:GLY:N	2.35	0.40
3:W:396:ARG:NH1	3:W:396:ARG:HG2	2.36	0.40
3:W:486:SER:HB2	3:W:490:ASP:OD2	2.22	0.40
3:W:765:PHE:HA	3:W:768:ASN:HD22	1.86	0.40
3:W:823:THR:HG22	3:W:847:PRO:CD	2.49	0.40
3:W:879:TYR:HE2	3:W:898:THR:HG21	1.85	0.40
3:W:1066:ASN:HD22	3:W:1066:ASN:HA	1.61	0.40
3:W:1290:PRO:HB2	3:W:1291:ALA:H	1.59	0.40
4:X:282:TYR:HD2	4:Y:830:ASN:HD21	1.68	0.40
4:X:409:MET:O	4:X:409:MET:HG3	2.20	0.40
4:X:497:ILE:CD1	4:X:514:ILE:HD12	2.46	0.40
4:X:596:PRO:C	4:X:597:GLU:OE2	2.64	0.40
4:X:693:TYR:OH	4:X:740:LYS:HA	2.21	0.40
4:X:749:HIS:O	4:X:752:PRO:HD2	2.20	0.40
4:X:1020:ILE:HG12	4:X:1031:LEU:HD22	2.02	0.40
4:X:1067:VAL:CG2	4:X:1072:THR:HG23	2.52	0.40
4:Y:200:LEU:HB2	4:Y:250:ALA:HB3	2.03	0.40
4:Y:221:GLY:HA3	4:Y:230:GLN:HA	2.04	0.40
4:Y:685:PRO:HD3	4:Y:749:HIS:HD1	1.86	0.40
4:Y:832:ILE:CG2	4:Y:1213:ALA:HA	2.52	0.40
4:Y:864:PHE:CE2	4:Y:931:ILE:HD12	2.55	0.40
4:Y:1136:ALA:O	4:Y:1137:PHE:CB	2.68	0.40
1:B:79:ARG:HH22	1:B:135:VAL:HG21	1.86	0.40
1:B:171:THR:HG21	1:B:634:LYS:NZ	2.34	0.40
1:B:502:LEU:O	1:B:503:ALA:C	2.63	0.40
5:C:649:MYR:C7	1:D:200:CYS:O	2.69	0.40
1:D:259:LEU:O	1:D:263:ILE:HG13	2.21	0.40
1:D:361:ASP:OD2	1:D:362:THR:HG23	2.20	0.40
1:D:431:ILE:CG1	1:D:437:ILE:HD13	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:445:ILE:HG22	1:D:447:SER:H	1.86	0.40
1:D:547:HIS:ND1	1:D:547:HIS:C	2.78	0.40
1:F:268:GLY:O	1:F:270:ASP:N	2.54	0.40
1:F:466:VAL:HG11	1:F:502:LEU:CD2	2.51	0.40
1:H:106:ILE:CD1	1:H:152:ARG:HG3	2.45	0.40
1:H:431:ILE:CG1	1:H:437:ILE:HD13	2.50	0.40
1:H:460:MET:C	1:H:462:GLY:N	2.78	0.40
1:H:469:VAL:O	1:H:469:VAL:HG22	2.20	0.40
1:I:9:ASN:CB	1:J:209:ASN:ND2	2.83	0.40
1:J:73:PHE:CB	1:J:119:VAL:HG21	2.49	0.40
1:J:125:ASP:HB3	1:N:105:PRO:HB3	2.03	0.40
1:J:373:PHE:O	1:J:397:VAL:HG12	2.21	0.40
1:L:274:ILE:O	1:L:274:ILE:HG13	2.20	0.40
1:N:79:ARG:HH22	1:N:135:VAL:HG21	1.86	0.40
1:N:373:PHE:O	1:N:397:VAL:HG12	2.21	0.40
1:N:624:LEU:C	1:N:624:LEU:CD2	2.94	0.40
5:O:649:MYR:C7	1:P:200:CYS:O	2.69	0.40
1:P:235:LEU:HD13	1:P:235:LEU:HA	1.80	0.40
1:P:352:ASP:OD1	1:P:352:ASP:C	2.62	0.40
1:R:409:ILE:HD11	1:T:297:ALA:O	2.17	0.40
5:S:649:MYR:H131	1:T:163:LEU:HD11	2.04	0.40
1:T:489:VAL:O	1:T:489:VAL:HG12	2.21	0.40
1:T:582:LEU:C	1:T:584:LEU:N	2.79	0.40
2:U:26:LEU:HD21	2:U:100:LEU:CD1	2.51	0.40
2:U:140:GLN:NE2	2:U:190:TYR:CE1	2.87	0.40
2:U:209:ARG:HG3	2:U:290:VAL:HG11	2.03	0.40
2:U:344:ASP:C	2:U:346:LEU:N	2.79	0.40
3:W:145:ASP:HB2	3:W:148:ILE:HB	2.02	0.40
3:W:262:MET:HE2	3:W:262:MET:HB3	1.81	0.40
3:W:268:ASP:C	3:W:270:LEU:N	2.79	0.40
3:W:430:HIS:HA	3:W:799:LEU:HD23	2.03	0.40
3:W:480:ARG:HH21	3:W:488:ILE:CD1	2.34	0.40
3:W:766:LEU:HD21	3:W:1000:TYR:HE1	1.85	0.40
3:W:787:HIS:O	3:W:788:GLN:C	2.63	0.40
3:W:885:TRP:CZ3	3:W:921:ILE:HD13	2.55	0.40
3:W:989:HIS:N	3:W:989:HIS:CD2	2.88	0.40
3:W:1026:LEU:HD13	3:W:1028:ILE:HG13	2.02	0.40
3:W:1250:LEU:HG	3:W:1260:LEU:HD21	2.03	0.40
4:X:218:GLU:O	4:X:219:LEU:HD23	2.21	0.40
4:X:259:LEU:HD23	4:X:911:THR:HB	2.03	0.40
4:X:772:THR:HG22	4:X:775:VAL:H	1.85	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:795:ASP:CG	4:X:798:VAL:CG2	2.89	0.40
4:X:798:VAL:HG21	4:Y:737:ARG:NH1	2.36	0.40
4:X:798:VAL:HG23	4:X:803:THR:CG2	2.52	0.40
4:X:850:MET:HE3	4:X:851:PHE:HE2	1.82	0.40
4:X:973:ASN:C	4:X:975:PHE:H	2.29	0.40
4:X:1049:SER:O	4:X:1050:ASP:C	2.64	0.40
4:Y:560:LEU:HB2	4:Y:561:PRO:HD3	2.03	0.40
4:Y:680:PRO:CG	4:Y:696:ALA:HB2	2.51	0.40
4:Y:937:ALA:HB2	4:Y:947:ARG:HA	2.03	0.40
4:Y:976:ASN:O	4:Y:1083:TYR:CE2	2.74	0.40
4:Y:978:ALA:O	4:Y:1080:HIS:HA	2.22	0.40
4:Y:1085:LEU:HD22	4:Y:1119:ILE:HD12	2.03	0.40
1:A:9:ASN:CB	1:B:209:ASN:ND2	2.83	0.40
1:B:199:LEU:HD11	1:B:203:TYR:CE2	2.54	0.40
1:B:312:ASN:ND2	1:B:314:SER:O	2.54	0.40
1:B:357:ILE:CD1	1:B:414:GLN:HB3	2.50	0.40
1:B:445:ILE:HG22	1:B:447:SER:H	1.86	0.40
1:D:100:LYS:O	1:L:152:ARG:NH2	2.49	0.40
1:D:156:VAL:O	1:D:157:ALA:C	2.64	0.40
1:D:225:THR:O	1:D:225:THR:HG23	2.22	0.40
1:D:271:LEU:HD12	1:D:271:LEU:HA	1.79	0.40
1:D:273:LEU:HA	1:F:630:LEU:CD1	2.50	0.40
1:D:401:GLY:O	1:D:402:ALA:CB	2.66	0.40
1:D:456:ASN:C	1:D:456:ASN:ND2	2.76	0.40
1:D:489:VAL:HG12	1:D:489:VAL:O	2.21	0.40
1:D:582:LEU:C	1:D:584:LEU:N	2.79	0.40
1:F:67:ARG:CG	1:F:67:ARG:NH1	2.84	0.40
1:F:373:PHE:CD2	1:F:397:VAL:HG11	2.55	0.40
1:F:547:HIS:ND1	1:F:547:HIS:C	2.78	0.40
1:H:44:THR:CG2	1:H:45:GLY:N	2.82	0.40
1:H:455:SER:O	1:H:456:ASN:HB3	2.21	0.40
1:I:29:THR:CG2	1:N:609:ARG:CD	2.93	0.40
1:J:53:THR:HA	2:V:332:PRO:CG	2.47	0.40
1:J:312:ASN:ND2	1:J:314:SER:O	2.54	0.40
1:J:428:ARG:NH1	1:J:428:ARG:CG	2.76	0.40
1:J:463:LEU:HD23	1:J:463:LEU:O	2.21	0.40
1:L:229:ASP:O	1:L:231:GLN:N	2.54	0.40
1:L:471:LEU:O	1:L:472:ARG:C	2.64	0.40
1:M:13:ILE:CG2	1:M:14:THR:H	2.35	0.40
5:M:649:MYR:C7	1:N:200:CYS:O	2.69	0.40
5:M:649:MYR:H62	1:N:200:CYS:O	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:48:TRP:CZ3	1:N:123:ALA:N	2.89	0.40
1:N:57:THR:HB	1:N:59:ASP:OD2	2.21	0.40
1:N:167:MET:HG2	1:N:215:TYR:CE2	2.57	0.40
1:N:297:ALA:CB	1:N:460:MET:HB2	2.33	0.40
1:N:489:VAL:HG12	1:N:489:VAL:O	2.21	0.40
1:P:485:VAL:O	1:P:486:PRO:C	2.64	0.40
1:P:576:PHE:HB2	1:P:591:LEU:HD21	2.03	0.40
5:Q:649:MYR:H52	1:R:187:LEU:CD2	2.51	0.40
1:R:193:ILE:H	1:R:193:ILE:HG12	1.55	0.40
1:R:266:MET:HE2	1:R:604:VAL:HG12	2.03	0.40
1:R:292:ARG:HH11	1:R:292:ARG:CG	2.32	0.40
1:R:312:ASN:ND2	1:R:314:SER:O	2.54	0.40
1:R:360:TYR:CE2	1:R:415:PRO:HG3	2.56	0.40
1:R:485:VAL:O	1:R:486:PRO:C	2.64	0.40
1:T:182:ASN:O	1:T:182:ASN:CG	2.65	0.40
1:T:282:VAL:HG21	1:T:474:THR:HB	2.02	0.40
1:T:463:LEU:HD23	1:T:463:LEU:O	2.21	0.40
2:U:22:ASP:HB2	2:U:383:ARG:CD	2.39	0.40
2:U:61:VAL:HG21	2:U:278:ILE:HB	2.02	0.40
2:U:157:TYR:CD1	2:U:157:TYR:N	2.88	0.40
2:U:157:TYR:CB	2:U:287:SER:HB2	2.51	0.40
2:U:243:PRO:HD2	2:U:362:TYR:CD1	2.56	0.40
2:U:265:SER:HA	2:U:323:VAL:CG1	2.52	0.40
2:V:65:ASN:O	2:V:68:VAL:HG12	2.21	0.40
2:V:156:ILE:O	2:V:156:ILE:HG13	2.21	0.40
3:W:162:SER:HA	3:W:171:THR:CG2	2.36	0.40
3:W:459:ASP:O	3:W:460:ALA:C	2.63	0.40
3:W:722:ASP:OD1	3:W:782:THR:OG1	2.39	0.40
3:W:992:SER:HA	3:W:993:PRO:HD3	1.87	0.40
4:X:242:ARG:HH12	4:X:1146:LEU:HD12	1.86	0.40
4:X:298:LEU:C	4:X:298:LEU:CD2	2.94	0.40
4:X:470:LEU:C	4:X:472:LEU:H	2.29	0.40
4:X:606:MET:HE2	4:Y:719:ALA:N	2.35	0.40
4:X:788:VAL:HG22	4:X:789:ASP:H	1.86	0.40
4:X:945:VAL:HG13	4:X:947:ARG:HG2	2.03	0.40
4:Y:43:ALA:C	4:Y:45:ASP:N	2.79	0.40
4:Y:126:PHE:HD2	4:Y:132:LEU:HD13	1.87	0.40
4:Y:338:GLU:H	4:Y:338:GLU:HG3	1.63	0.40
4:Y:451:LEU:HB3	4:Y:666:ALA:CB	2.51	0.40
4:Y:488:LEU:CD2	4:Y:821:ALA:HB1	2.50	0.40
4:Y:581:SER:N	4:Y:582:PRO:CD	2.84	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:567:ARG:HB2	1:B:567:ARG:HH11	1.85	0.40
1:B:591:LEU:HD23	1:B:591:LEU:HA	1.89	0.40
1:D:50:PRO:HD3	1:D:61:LEU:CD2	2.51	0.40
1:D:262:ALA:HB1	1:D:608:LEU:HD13	2.03	0.40
1:D:292:ARG:HG2	1:D:292:ARG:NH1	2.32	0.40
1:D:292:ARG:HB2	1:D:503:ALA:HB2	2.03	0.40
1:D:442:THR:OG1	1:D:443:PHE:N	2.50	0.40
1:D:624:LEU:C	1:D:624:LEU:CD2	2.94	0.40
1:E:19:SER:OG	1:F:228:PRO:HG3	2.22	0.40
1:H:79:ARG:HH22	1:H:135:VAL:HG21	1.86	0.40
1:H:156:VAL:O	1:H:157:ALA:C	2.64	0.40
1:J:357:ILE:CD1	1:J:414:GLN:HB3	2.50	0.40
1:J:547:HIS:ND1	1:J:547:HIS:C	2.78	0.40
1:J:630:LEU:CD1	1:N:273:LEU:HA	2.50	0.40
1:K:19:SER:OG	1:L:228:PRO:HG3	2.22	0.40
1:L:167:MET:HG2	1:L:215:TYR:CE2	2.57	0.40
1:L:576:PHE:HB2	1:L:591:LEU:HD21	2.03	0.40
1:N:431:ILE:CG1	1:N:437:ILE:HD13	2.50	0.40
1:N:582:LEU:HD23	1:N:585:GLN:HE22	1.83	0.40
1:P:156:VAL:O	1:P:157:ALA:C	2.64	0.40
1:P:259:LEU:O	1:P:263:ILE:HG13	2.21	0.40
1:P:266:MET:HE2	1:P:604:VAL:HG12	2.03	0.40
1:P:273:LEU:HA	1:R:630:LEU:CD1	2.50	0.40
1:Q:13:ILE:CG2	1:Q:14:THR:H	2.35	0.40
1:R:229:ASP:O	1:R:231:GLN:N	2.54	0.40
1:R:582:LEU:C	1:R:584:LEU:N	2.79	0.40
1:R:610:THR:O	1:R:611:GLY:C	2.64	0.40
1:S:28:SER:C	1:S:29:THR:HG23	2.45	0.40
1:T:266:MET:HE2	1:T:604:VAL:HG12	2.03	0.40
2:U:217:GLY:HA3	2:U:223:LEU:HD12	2.03	0.40
2:U:242:ASN:HB2	4:X:1179:VAL:O	2.21	0.40
2:V:20:LEU:HD13	2:V:384:MET:SD	2.61	0.40
2:V:57:ARG:O	2:V:59:PRO:HD3	2.21	0.40
3:W:154:PHE:HA	3:W:155:PRO:HD3	1.77	0.40
3:W:477:ARG:CA	3:W:650:VAL:HG11	2.41	0.40
3:W:534:LEU:HD22	3:W:551:ILE:HD13	2.03	0.40
3:W:780:LEU:N	3:W:780:LEU:HD12	2.35	0.40
3:W:815:TYR:C	3:W:817:SER:N	2.79	0.40
4:X:200:LEU:HD13	4:X:343:ALA:HB2	2.03	0.40
4:X:206:LEU:HB2	4:X:236:PRO:HD3	2.02	0.40
4:X:367:ARG:HG3	4:X:388:MET:CE	2.51	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:X:580:HIS:C	4:X:582:PRO:CD	2.94	0.40
4:X:593:LEU:HD21	4:X:597:GLU:CB	2.51	0.40
4:X:754:GLU:HG3	4:X:837:TYR:CZ	2.56	0.40
4:X:859:ILE:HA	4:X:859:ILE:HD13	1.82	0.40
4:X:929:PRO:O	4:X:931:ILE:N	2.54	0.40
4:X:1034:ASP:C	4:X:1036:ASN:H	2.29	0.40
4:X:1043:GLY:O	4:X:1072:THR:HA	2.22	0.40
4:Y:59:GLY:HA3	4:Y:60:PRO:HD3	1.98	0.40
4:Y:195:ILE:HD12	4:Y:257:ARG:NH2	2.36	0.40
4:Y:222:PHE:O	4:Y:228:MET:HA	2.22	0.40
4:Y:456:VAL:O	4:Y:456:VAL:HG12	2.22	0.40
4:Y:541:VAL:CA	4:Y:808:ALA:HB1	2.52	0.40
1:B:57:THR:HB	1:B:59:ASP:OD2	2.21	0.40
1:B:485:VAL:O	1:B:486:PRO:C	2.64	0.40
1:D:48:TRP:CH2	1:D:63:ILE:HD12	2.56	0.40
1:D:190:ALA:C	1:D:192:ASP:N	2.80	0.40
1:D:358:LEU:HB2	1:D:417:PHE:HD2	1.77	0.40
1:D:373:PHE:O	1:D:397:VAL:HG12	2.22	0.40
1:D:518:ALA:HB1	1:D:580:PRO:HG3	2.03	0.40
1:D:610:THR:O	1:D:611:GLY:C	2.64	0.40
1:F:158:LEU:O	1:F:161:LYS:HB3	2.21	0.40
1:F:182:ASN:O	1:F:182:ASN:CG	2.65	0.40
1:F:299:ILE:O	1:F:337:ARG:HD2	2.22	0.40
1:F:508:VAL:O	1:F:508:VAL:HG12	2.20	0.40
1:H:101:THR:HG21	1:H:159:TRP:CZ2	2.55	0.40
1:H:182:ASN:O	1:H:182:ASN:CG	2.65	0.40
1:H:373:PHE:O	1:H:397:VAL:HG12	2.21	0.40
1:H:420:LEU:CD1	1:H:422:LEU:HD23	2.52	0.40
1:H:445:ILE:HG22	1:H:447:SER:H	1.86	0.40
1:H:463:LEU:HD23	1:H:463:LEU:O	2.22	0.40
1:J:496:GLU:C	1:J:498:VAL:N	2.80	0.40
1:J:610:THR:O	1:J:611:GLY:C	2.64	0.40
1:J:624:LEU:C	1:J:624:LEU:CD2	2.94	0.40
1:L:225:THR:O	1:L:225:THR:HG23	2.22	0.40
1:L:262:ALA:HB1	1:L:608:LEU:HD13	2.03	0.40
1:N:411:VAL:O	1:N:411:VAL:CG1	2.61	0.40
1:N:466:VAL:HG11	1:N:502:LEU:CD2	2.51	0.40
1:P:299:ILE:O	1:P:337:ARG:HD2	2.22	0.40
1:P:431:ILE:O	1:P:431:ILE:HG23	2.10	0.40
1:P:450:SER:CA	1:P:453:ASN:HD22	2.21	0.40
1:P:582:LEU:C	1:P:584:LEU:N	2.79	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:R:79:ARG:O	1:R:83:SER:HB2	2.20	0.40
1:R:79:ARG:HH22	1:R:135:VAL:HG21	1.86	0.40
1:R:182:ASN:O	1:R:182:ASN:CG	2.64	0.40
1:R:385:VAL:O	1:R:385:VAL:HG22	2.22	0.40
1:R:554:GLN:C	1:R:556:SER:H	2.28	0.40
1:R:591:LEU:HD23	1:R:591:LEU:HA	1.89	0.40
1:S:19:SER:OG	1:T:228:PRO:HG3	2.22	0.40
5:S:649:MYR:C7	1:T:200:CYS:O	2.69	0.40
1:T:154:ARG:NH1	1:T:154:ARG:CB	2.68	0.40
1:T:299:ILE:O	1:T:337:ARG:HD2	2.22	0.40
1:T:554:GLN:C	1:T:556:SER:H	2.28	0.40
2:U:252:ASP:HA	2:U:255:ARG:NH1	2.36	0.40
2:U:362:TYR:CZ	2:U:366:ILE:HG13	2.57	0.40
2:U:367:GLU:HG3	2:U:394:PHE:CD2	2.55	0.40
2:U:374:LEU:HD13	2:U:374:LEU:C	2.46	0.40
2:V:20:LEU:HD13	2:V:379:ILE:HD11	2.03	0.40
2:V:72:LEU:O	2:V:76:LEU:HG	2.21	0.40
3:W:822:GLN:HA	3:W:822:GLN:OE1	2.22	0.40
3:W:934:ASN:HA	3:W:1023:THR:HA	2.03	0.40
3:W:1114:THR:HG22	3:W:1115:LEU:N	2.36	0.40
3:W:1166:CYS:HA	3:W:1176:VAL:H	1.87	0.40
4:X:294:ARG:HB2	4:X:888:LEU:CB	2.52	0.40
4:X:328:ARG:HA	4:X:328:ARG:HD2	1.57	0.40
4:X:450:ASP:OD2	4:X:861:ARG:CZ	2.69	0.40
4:X:607:HIS:C	4:X:609:THR:H	2.29	0.40
4:X:842:ALA:HB3	4:X:843:PRO:CD	2.52	0.40
4:X:879:PHE:O	4:X:880:LEU:C	2.65	0.40
4:X:921:ASP:C	4:X:923:LEU:H	2.29	0.40
4:X:1064:TRP:C	4:X:1066:MET:N	2.79	0.40
4:Y:541:VAL:O	4:Y:541:VAL:HG22	2.21	0.40
4:Y:563:MET:C	4:Y:563:MET:SD	3.04	0.40
4:Y:652:GLN:HA	4:Y:773:ARG:CD	2.44	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	B	602/648 (93%)	407 (68%)	134 (22%)	61 (10%)	0	3
1	C	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	D	602/648 (93%)	416 (69%)	129 (21%)	57 (10%)	0	3
1	E	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	F	602/648 (93%)	408 (68%)	133 (22%)	61 (10%)	0	3
1	G	37/648 (6%)	24 (65%)	8 (22%)	5 (14%)	0	1
1	H	602/648 (93%)	409 (68%)	132 (22%)	61 (10%)	0	3
1	I	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	J	602/648 (93%)	411 (68%)	132 (22%)	59 (10%)	0	3
1	K	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	L	602/648 (93%)	409 (68%)	132 (22%)	61 (10%)	0	3
1	M	37/648 (6%)	24 (65%)	8 (22%)	5 (14%)	0	1
1	N	602/648 (93%)	408 (68%)	133 (22%)	61 (10%)	0	3
1	O	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	P	602/648 (93%)	410 (68%)	132 (22%)	60 (10%)	0	3
1	Q	39/648 (6%)	25 (64%)	9 (23%)	5 (13%)	0	1
1	R	602/648 (93%)	406 (67%)	135 (22%)	61 (10%)	0	3
1	S	37/648 (6%)	24 (65%)	8 (22%)	5 (14%)	0	1
1	T	602/648 (93%)	406 (67%)	135 (22%)	61 (10%)	0	3
2	U	409/412 (99%)	283 (69%)	81 (20%)	45 (11%)	0	2
2	V	409/412 (99%)	330 (81%)	60 (15%)	19 (5%)	2	13
3	W	1276/1299 (98%)	1063 (83%)	173 (14%)	40 (3%)	3	20
4	X	1012/1214 (83%)	714 (71%)	219 (22%)	79 (8%)	1	5
4	Y	1146/1214 (94%)	860 (75%)	204 (18%)	82 (7%)	1	6
All	All	10656/17511 (61%)	7587 (71%)	2151 (20%)	918 (9%)	1	4

All (918) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	B	59	ASP
1	B	103	CYS
1	B	179	ALA
1	B	225	THR
1	B	228	PRO
1	B	250	GLY
1	B	270	ASP
1	B	291	PRO
1	B	345	ILE
1	B	388	ALA
1	B	405	ILE
1	B	409	ILE
1	B	412	ARG
1	B	470	LEU
1	B	486	PRO
1	B	555	ALA
1	B	562	TYR
1	B	591	LEU
1	D	53	THR
1	D	103	CYS
1	D	179	ALA
1	D	225	THR
1	D	228	PRO
1	D	250	GLY
1	D	270	ASP
1	D	291	PRO
1	D	345	ILE
1	D	388	ALA
1	D	405	ILE
1	D	409	ILE
1	D	412	ARG
1	D	470	LEU
1	D	486	PRO
1	D	555	ALA
1	D	562	TYR
1	D	591	LEU
1	F	59	ASP
1	F	103	CYS
1	F	179	ALA
1	F	225	THR
1	F	228	PRO
1	F	250	GLY
1	F	270	ASP

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Mol	Chain	Res	Type
1	F	291	PRO
1	F	345	ILE
1	F	388	ALA
1	F	405	ILE
1	F	409	ILE
1	F	412	ARG
1	F	470	LEU
1	F	486	PRO
1	F	555	ALA
1	F	562	TYR
1	F	591	LEU
1	H	59	ASP
1	H	103	CYS
1	H	179	ALA
1	H	225	THR
1	H	228	PRO
1	H	250	GLY
1	H	270	ASP
1	H	291	PRO
1	H	345	ILE
1	H	388	ALA
1	H	405	ILE
1	H	409	ILE
1	H	412	ARG
1	H	470	LEU
1	H	486	PRO
1	H	555	ALA
1	H	562	TYR
1	H	591	LEU
1	J	54	SER
1	J	59	ASP
1	J	103	CYS
1	J	179	ALA
1	J	225	THR
1	J	228	PRO
1	J	250	GLY
1	J	270	ASP
1	J	291	PRO
1	J	345	ILE
1	J	388	ALA
1	J	405	ILE
1	J	409	ILE

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Mol	Chain	Res	Type
1	J	412	ARG
1	J	470	LEU
1	J	486	PRO
1	J	555	ALA
1	J	562	TYR
1	J	591	LEU
1	L	59	ASP
1	L	103	CYS
1	L	179	ALA
1	L	225	THR
1	L	228	PRO
1	L	250	GLY
1	L	270	ASP
1	L	291	PRO
1	L	345	ILE
1	L	388	ALA
1	L	405	ILE
1	L	409	ILE
1	L	412	ARG
1	L	470	LEU
1	L	486	PRO
1	L	555	ALA
1	L	562	TYR
1	L	591	LEU
1	N	59	ASP
1	N	103	CYS
1	N	179	ALA
1	N	225	THR
1	N	228	PRO
1	N	250	GLY
1	N	270	ASP
1	N	291	PRO
1	N	345	ILE
1	N	388	ALA
1	N	405	ILE
1	N	409	ILE
1	N	412	ARG
1	N	470	LEU
1	N	486	PRO
1	N	555	ALA
1	N	562	TYR
1	N	591	LEU

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Mol	Chain	Res	Type
1	P	58	ILE
1	P	103	CYS
1	P	179	ALA
1	P	225	THR
1	P	228	PRO
1	P	250	GLY
1	P	270	ASP
1	P	291	PRO
1	P	345	ILE
1	P	388	ALA
1	P	405	ILE
1	P	409	ILE
1	P	412	ARG
1	P	470	LEU
1	P	486	PRO
1	P	555	ALA
1	P	562	TYR
1	P	591	LEU
1	R	59	ASP
1	R	103	CYS
1	R	179	ALA
1	R	225	THR
1	R	228	PRO
1	R	250	GLY
1	R	270	ASP
1	R	291	PRO
1	R	345	ILE
1	R	388	ALA
1	R	405	ILE
1	R	409	ILE
1	R	412	ARG
1	R	470	LEU
1	R	486	PRO
1	R	555	ALA
1	R	562	TYR
1	R	591	LEU
1	T	59	ASP
1	T	103	CYS
1	T	179	ALA
1	T	225	THR
1	T	228	PRO
1	T	250	GLY

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Mol	Chain	Res	Type
1	T	270	ASP
1	T	291	PRO
1	T	345	ILE
1	T	388	ALA
1	T	405	ILE
1	T	409	ILE
1	T	412	ARG
1	T	470	LEU
1	T	486	PRO
1	T	555	ALA
1	T	562	TYR
1	T	591	LEU
2	U	37	TRP
2	U	104	PRO
2	U	132	LEU
2	U	168	ALA
2	U	221	GLY
2	U	240	ALA
2	U	252	ASP
2	U	303	ALA
2	U	318	ASN
2	U	378	PRO
2	U	379	ILE
2	U	390	ASN
2	U	391	ALA
2	U	400	THR
2	V	40	ARG
2	V	378	PRO
3	W	63	PRO
3	W	369	ILE
3	W	370	GLY
3	W	638	HIS
3	W	1040	VAL
3	W	1290	PRO
4	X	280	ARG
4	X	328	ARG
4	X	343	ALA
4	X	438	PRO
4	X	519	GLN
4	X	611	PRO
4	X	612	ALA
4	X	773	ARG

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Mol	Chain	Res	Type
4	X	776	GLN
4	X	845	PHE
4	X	880	LEU
4	X	890	GLN
4	X	925	LEU
4	X	1025	ASN
4	X	1096	GLU
4	Y	39	PRO
4	Y	103	PRO
4	Y	105	SER
4	Y	106	MET
4	Y	123	ASN
4	Y	217	LYS
4	Y	239	ALA
4	Y	277	VAL
4	Y	355	LYS
4	Y	372	ASP
4	Y	389	GLU
4	Y	440	ILE
4	Y	554	SER
4	Y	665	SER
4	Y	692	THR
4	Y	777	ASN
4	Y	778	ASP
4	Y	788	VAL
4	Y	879	PHE
4	Y	918	ALA
4	Y	954	PRO
4	Y	1055	SER
4	Y	1137	PHE
4	Y	1183	ASP
4	Y	1184	LEU
4	Y	1213	ALA
1	A	6	THR
1	A	10	THR
1	A	27	THR
1	B	100	LYS
1	B	170	LEU
1	B	193	ILE
1	B	196	LEU
1	B	198	ASN
1	B	268	GLY

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Mol	Chain	Res	Type
1	B	313	SER
1	B	332	GLY
1	B	346	ASP
1	B	384	GLN
1	B	428	ARG
1	B	582	LEU
1	B	583	ALA
1	B	596	MET
1	B	610	THR
1	B	611	GLY
1	B	612	SER
1	C	6	THR
1	C	10	THR
1	C	27	THR
1	D	100	LYS
1	D	170	LEU
1	D	193	ILE
1	D	196	LEU
1	D	198	ASN
1	D	268	GLY
1	D	313	SER
1	D	332	GLY
1	D	346	ASP
1	D	384	GLN
1	D	428	ARG
1	D	582	LEU
1	D	583	ALA
1	D	596	MET
1	D	610	THR
1	D	611	GLY
1	D	612	SER
1	E	6	THR
1	E	10	THR
1	E	27	THR
1	F	100	LYS
1	F	170	LEU
1	F	193	ILE
1	F	196	LEU
1	F	198	ASN
1	F	268	GLY
1	F	313	SER
1	F	332	GLY

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Mol	Chain	Res	Type
1	F	346	ASP
1	F	384	GLN
1	F	428	ARG
1	F	582	LEU
1	F	583	ALA
1	F	596	MET
1	F	610	THR
1	F	611	GLY
1	F	612	SER
1	G	6	THR
1	G	10	THR
1	G	27	THR
1	H	100	LYS
1	H	170	LEU
1	H	193	ILE
1	H	196	LEU
1	H	198	ASN
1	H	268	GLY
1	H	313	SER
1	H	332	GLY
1	H	346	ASP
1	H	384	GLN
1	H	428	ARG
1	H	582	LEU
1	H	583	ALA
1	H	596	MET
1	H	610	THR
1	H	611	GLY
1	H	612	SER
1	I	6	THR
1	I	10	THR
1	I	27	THR
1	J	100	LYS
1	J	170	LEU
1	J	193	ILE
1	J	196	LEU
1	J	198	ASN
1	J	268	GLY
1	J	313	SER
1	J	332	GLY
1	J	346	ASP
1	J	384	GLN

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Mol	Chain	Res	Type
1	J	428	ARG
1	J	582	LEU
1	J	583	ALA
1	J	596	MET
1	J	610	THR
1	J	611	GLY
1	J	612	SER
1	K	6	THR
1	K	10	THR
1	K	27	THR
1	L	100	LYS
1	L	170	LEU
1	L	193	ILE
1	L	196	LEU
1	L	198	ASN
1	L	268	GLY
1	L	313	SER
1	L	332	GLY
1	L	346	ASP
1	L	384	GLN
1	L	428	ARG
1	L	582	LEU
1	L	583	ALA
1	L	596	MET
1	L	610	THR
1	L	611	GLY
1	L	612	SER
1	M	6	THR
1	M	10	THR
1	M	27	THR
1	N	100	LYS
1	N	170	LEU
1	N	193	ILE
1	N	196	LEU
1	N	198	ASN
1	N	268	GLY
1	N	313	SER
1	N	332	GLY
1	N	346	ASP
1	N	384	GLN
1	N	428	ARG
1	N	582	LEU

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Mol	Chain	Res	Type
1	N	583	ALA
1	N	596	MET
1	N	610	THR
1	N	611	GLY
1	N	612	SER
1	O	6	THR
1	O	10	THR
1	O	27	THR
1	P	100	LYS
1	P	170	LEU
1	P	193	ILE
1	P	196	LEU
1	P	198	ASN
1	P	268	GLY
1	P	313	SER
1	P	332	GLY
1	P	346	ASP
1	P	384	GLN
1	P	428	ARG
1	P	582	LEU
1	P	583	ALA
1	P	596	MET
1	P	610	THR
1	P	611	GLY
1	P	612	SER
1	Q	6	THR
1	Q	10	THR
1	Q	27	THR
1	R	100	LYS
1	R	170	LEU
1	R	193	ILE
1	R	196	LEU
1	R	198	ASN
1	R	268	GLY
1	R	313	SER
1	R	332	GLY
1	R	346	ASP
1	R	384	GLN
1	R	428	ARG
1	R	582	LEU
1	R	583	ALA
1	R	596	MET

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Mol	Chain	Res	Type
1	R	610	THR
1	R	611	GLY
1	R	612	SER
1	S	6	THR
1	S	10	THR
1	S	27	THR
1	T	100	LYS
1	T	170	LEU
1	T	193	ILE
1	T	196	LEU
1	T	198	ASN
1	T	268	GLY
1	T	313	SER
1	T	332	GLY
1	T	346	ASP
1	T	384	GLN
1	T	428	ARG
1	T	582	LEU
1	T	583	ALA
1	T	596	MET
1	T	610	THR
1	T	611	GLY
1	T	612	SER
2	U	17	PRO
2	U	105	ALA
2	U	122	SER
2	U	167	PRO
2	U	178	THR
2	U	195	GLN
2	U	222	ARG
2	U	229	CYS
2	U	294	THR
2	U	312	VAL
2	V	5	GLN
2	V	20	LEU
2	V	247	VAL
2	V	379	ILE
3	W	176	LYS
3	W	368	PRO
3	W	559	VAL
3	W	592	MET
3	W	660	GLY

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Mol	Chain	Res	Type
3	W	788	GLN
3	W	954	HIS
3	W	962	GLU
4	X	270	SER
4	X	363	ALA
4	X	369	GLY
4	X	416	ILE
4	X	426	ASN
4	X	428	LEU
4	X	464	SER
4	X	518	LEU
4	X	602	GLY
4	X	634	GLN
4	X	721	VAL
4	X	818	ILE
4	X	914	ASP
4	X	937	ALA
4	X	946	VAL
4	X	996	MET
4	X	1004	PHE
4	X	1016	ARG
4	X	1155	ASP
4	X	1190	LEU
4	Y	257	ARG
4	Y	258	GLY
4	Y	259	LEU
4	Y	332	ALA
4	Y	333	PHE
4	Y	351	PRO
4	Y	353	GLN
4	Y	375	ASN
4	Y	376	LEU
4	Y	541	VAL
4	Y	608	GLN
4	Y	673	ASN
4	Y	791	ALA
4	Y	848	ASN
4	Y	996	MET
4	Y	1070	GLY
4	Y	1155	ASP
4	Y	1179	VAL
1	A	32	PRO

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Mol	Chain	Res	Type
1	B	204	PRO
1	B	226	LYS
1	B	307	ILE
1	B	503	ALA
1	B	532	ASP
1	B	553	GLY
1	B	554	GLN
1	C	32	PRO
1	D	204	PRO
1	D	226	LYS
1	D	307	ILE
1	D	503	ALA
1	D	532	ASP
1	D	553	GLY
1	D	554	GLN
1	E	32	PRO
1	F	204	PRO
1	F	226	LYS
1	F	307	ILE
1	F	503	ALA
1	F	532	ASP
1	F	553	GLY
1	F	554	GLN
1	G	32	PRO
1	H	204	PRO
1	H	226	LYS
1	H	307	ILE
1	H	503	ALA
1	H	532	ASP
1	H	553	GLY
1	H	554	GLN
1	I	32	PRO
1	J	204	PRO
1	J	226	LYS
1	J	307	ILE
1	J	503	ALA
1	J	532	ASP
1	J	553	GLY
1	J	554	GLN
1	K	32	PRO
1	L	204	PRO
1	L	226	LYS

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Mol	Chain	Res	Type
1	L	307	ILE
1	L	503	ALA
1	L	532	ASP
1	L	553	GLY
1	L	554	GLN
1	M	32	PRO
1	N	204	PRO
1	N	226	LYS
1	N	307	ILE
1	N	503	ALA
1	N	532	ASP
1	N	553	GLY
1	N	554	GLN
1	O	32	PRO
1	P	204	PRO
1	P	226	LYS
1	P	307	ILE
1	P	503	ALA
1	P	532	ASP
1	P	553	GLY
1	P	554	GLN
1	Q	32	PRO
1	R	204	PRO
1	R	226	LYS
1	R	307	ILE
1	R	503	ALA
1	R	532	ASP
1	R	553	GLY
1	R	554	GLN
1	S	32	PRO
1	T	204	PRO
1	T	226	LYS
1	T	307	ILE
1	T	503	ALA
1	T	532	ASP
1	T	553	GLY
1	T	554	GLN
2	U	14	TYR
2	U	20	LEU
2	U	134	SER
2	U	169	ALA
2	U	193	ALA

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Mol	Chain	Res	Type
2	U	297	PRO
2	U	396	GLN
2	U	398	GLY
2	V	17	PRO
2	V	81	GLY
2	V	85	THR
2	V	256	ALA
2	V	397	ALA
3	W	54	ARG
3	W	162	SER
3	W	662	ARG
3	W	742	SER
3	W	848	PRO
3	W	863	LEU
3	W	991	LEU
3	W	1229	ILE
3	W	1256	PRO
4	X	278	LEU
4	X	353	GLN
4	X	525	TYR
4	X	588	ALA
4	X	613	SER
4	X	695	SER
4	X	720	THR
4	X	829	THR
4	X	930	ARG
4	X	1024	PRO
4	X	1131	ARG
4	X	1147	PHE
4	X	1151	ALA
4	X	1185	PRO
4	X	1189	THR
4	Y	62	ALA
4	Y	72	VAL
4	Y	82	PRO
4	Y	168	ARG
4	Y	214	HIS
4	Y	218	GLU
4	Y	225	PHE
4	Y	352	THR
4	Y	538	ASN
4	Y	552	ASP

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Mol	Chain	Res	Type
4	Y	809	ALA
4	Y	824	CYS
4	Y	829	THR
4	Y	1016	ARG
4	Y	1081	TYR
1	B	182	ASN
1	B	296	PRO
1	B	398	SER
1	B	402	ALA
1	B	414	GLN
1	B	590	VAL
1	B	613	LEU
1	D	182	ASN
1	D	296	PRO
1	D	398	SER
1	D	402	ALA
1	D	414	GLN
1	D	590	VAL
1	D	613	LEU
1	F	182	ASN
1	F	296	PRO
1	F	398	SER
1	F	402	ALA
1	F	414	GLN
1	F	590	VAL
1	F	613	LEU
1	H	182	ASN
1	H	296	PRO
1	H	398	SER
1	H	402	ALA
1	H	414	GLN
1	H	590	VAL
1	H	613	LEU
1	J	182	ASN
1	J	296	PRO
1	J	398	SER
1	J	402	ALA
1	J	414	GLN
1	J	590	VAL
1	J	613	LEU
1	L	182	ASN
1	L	296	PRO

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Mol	Chain	Res	Type
1	L	398	SER
1	L	402	ALA
1	L	414	GLN
1	L	590	VAL
1	L	613	LEU
1	N	182	ASN
1	N	296	PRO
1	N	398	SER
1	N	402	ALA
1	N	414	GLN
1	N	590	VAL
1	N	613	LEU
1	P	182	ASN
1	P	296	PRO
1	P	398	SER
1	P	402	ALA
1	P	414	GLN
1	P	590	VAL
1	P	613	LEU
1	R	182	ASN
1	R	296	PRO
1	R	398	SER
1	R	402	ALA
1	R	414	GLN
1	R	590	VAL
1	R	613	LEU
1	T	182	ASN
1	T	296	PRO
1	T	398	SER
1	T	402	ALA
1	T	414	GLN
1	T	590	VAL
1	T	613	LEU
2	U	38	THR
2	U	114	VAL
2	U	187	GLN
2	U	196	LEU
2	U	246	ALA
2	U	387	GLN
2	V	33	TYR
2	V	161	VAL
2	V	178	THR

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Mol	Chain	Res	Type
2	V	387	GLN
3	W	743	SER
3	W	1117	GLN
4	X	219	LEU
4	X	285	ASN
4	X	408	SER
4	X	579	PRO
4	X	722	ASN
4	X	1036	ASN
4	X	1079	GLY
4	Y	498	THR
4	Y	649	ASN
4	Y	780	ILE
4	Y	810	ALA
4	Y	914	ASP
1	B	54	SER
1	B	199	LEU
1	B	305	LYS
1	B	362	THR
1	B	403	SER
1	B	419	MET
1	B	434	ILE
1	D	199	LEU
1	D	305	LYS
1	D	362	THR
1	D	403	SER
1	D	419	MET
1	D	434	ILE
1	F	54	SER
1	F	199	LEU
1	F	305	LYS
1	F	362	THR
1	F	403	SER
1	F	419	MET
1	F	434	ILE
1	H	54	SER
1	H	199	LEU
1	H	305	LYS
1	H	362	THR
1	H	403	SER
1	H	419	MET
1	H	434	ILE

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Mol	Chain	Res	Type
1	J	199	LEU
1	J	305	LYS
1	J	362	THR
1	J	403	SER
1	J	419	MET
1	J	434	ILE
1	L	54	SER
1	L	199	LEU
1	L	305	LYS
1	L	362	THR
1	L	403	SER
1	L	419	MET
1	L	434	ILE
1	N	54	SER
1	N	199	LEU
1	N	305	LYS
1	N	362	THR
1	N	403	SER
1	N	419	MET
1	N	434	ILE
1	P	54	SER
1	P	199	LEU
1	P	305	LYS
1	P	362	THR
1	P	403	SER
1	P	419	MET
1	P	434	ILE
1	R	54	SER
1	R	199	LEU
1	R	305	LYS
1	R	362	THR
1	R	403	SER
1	R	419	MET
1	R	434	ILE
1	T	54	SER
1	T	199	LEU
1	T	305	LYS
1	T	362	THR
1	T	403	SER
1	T	419	MET
1	T	434	ILE
2	U	82	GLY

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Mol	Chain	Res	Type
2	U	85	THR
2	U	242	ASN
2	U	392	ALA
2	V	195	GLN
2	V	305	LEU
3	W	52	VAL
3	W	199	PRO
3	W	424	SER
3	W	453	PRO
3	W	740	VAL
3	W	1131	PRO
4	X	368	ILE
4	X	421	ASN
4	X	513	GLU
4	X	596	PRO
4	X	664	GLY
4	X	824	CYS
4	X	843	PRO
4	X	926	TYR
4	X	947	ARG
4	Y	18	ASP
4	Y	185	SER
4	Y	360	LEU
4	Y	373	ARG
4	Y	387	CYS
4	Y	614	GLN
4	Y	919	LEU
4	Y	1093	SER
2	U	112	TRP
2	V	388	PRO
3	W	64	PRO
3	W	960	GLY
4	X	255	GLU
4	X	794	GLY
4	X	943	GLY
4	X	1049	SER
4	Y	1004	PHE
4	Y	1116	PRO
1	B	50	PRO
1	B	58	ILE
1	B	171	THR
1	B	527	VAL

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Mol	Chain	Res	Type
1	D	171	THR
1	D	527	VAL
1	F	50	PRO
1	F	58	ILE
1	F	171	THR
1	F	527	VAL
1	H	50	PRO
1	H	58	ILE
1	H	171	THR
1	H	527	VAL
1	J	171	THR
1	J	527	VAL
1	L	50	PRO
1	L	58	ILE
1	L	171	THR
1	L	527	VAL
1	N	50	PRO
1	N	58	ILE
1	N	171	THR
1	N	527	VAL
1	P	50	PRO
1	P	171	THR
1	P	527	VAL
1	R	50	PRO
1	R	58	ILE
1	R	171	THR
1	R	527	VAL
1	T	50	PRO
1	T	58	ILE
1	T	171	THR
1	T	527	VAL
3	W	155	PRO
3	W	744	ILE
3	W	781	ILE
4	X	1164	VAL
4	X	1179	VAL
4	X	1207	ILE
4	Y	81	ARG
1	A	38	PRO
1	C	38	PRO
1	E	38	PRO
1	G	38	PRO

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Mol	Chain	Res	Type
1	I	38	PRO
1	K	38	PRO
1	M	38	PRO
1	O	38	PRO
1	Q	38	PRO
1	S	38	PRO
2	U	126	PRO
2	V	272	PRO
3	W	411	VAL
4	X	637	PRO
4	Y	266	PRO
4	Y	690	ALA
1	B	64	VAL
1	F	64	VAL
1	H	64	VAL
1	J	64	VAL
1	L	64	VAL
1	N	64	VAL
1	P	64	VAL
1	R	64	VAL
1	T	64	VAL
2	U	296	LEU
3	W	993	PRO
4	X	490	PRO
4	X	922	GLY
4	X	1038	PRO
4	Y	220	ILE
4	Y	671	PRO
3	W	371	PRO
4	X	770	PRO
4	Y	551	PRO
4	Y	917	GLY
3	W	826	PRO
4	X	440	ILE
4	Y	800	ILE

5.3.2 Protein sidechains (i)

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

The Analysed column shows the number of residues for which the sidechain conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	B	499/536 (93%)	413 (83%)	86 (17%)	2 10
1	C	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	D	499/536 (93%)	410 (82%)	89 (18%)	2 8
1	E	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	F	499/536 (93%)	413 (83%)	86 (17%)	2 10
1	G	32/536 (6%)	23 (72%)	9 (28%)	0 2
1	H	499/536 (93%)	413 (83%)	86 (17%)	2 10
1	I	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	J	499/536 (93%)	412 (83%)	87 (17%)	2 9
1	K	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	L	499/536 (93%)	412 (83%)	87 (17%)	2 9
1	M	32/536 (6%)	23 (72%)	9 (28%)	0 2
1	N	499/536 (93%)	411 (82%)	88 (18%)	2 9
1	O	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	P	499/536 (93%)	410 (82%)	89 (18%)	2 8
1	Q	34/536 (6%)	25 (74%)	9 (26%)	0 2
1	R	499/536 (93%)	412 (83%)	87 (17%)	2 9
1	S	32/536 (6%)	23 (72%)	9 (28%)	0 2
1	T	499/536 (93%)	411 (82%)	88 (18%)	2 9
2	U	325/326 (100%)	305 (94%)	20 (6%)	16 45
2	V	325/326 (100%)	306 (94%)	19 (6%)	18 47
3	W	1082/1092 (99%)	979 (90%)	103 (10%)	8 29
4	X	869/1030 (84%)	726 (84%)	143 (16%)	2 11
4	Y	976/1030 (95%)	865 (89%)	111 (11%)	5 21
All	All	8901/14524 (61%)	7542 (85%)	1359 (15%)	5 13

All (1359) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	7	SER
1	A	8	VAL

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Mol	Chain	Res	Type
1	A	10	THR
1	A	12	ASN
1	A	23	THR
1	A	27	THR
1	A	40	VAL
1	A	41	LEU
1	A	42	ASN
1	B	46	LYS
1	B	47	LEU
1	B	48	TRP
1	B	51	VAL
1	B	76	GLU
1	B	78	MET
1	B	79	ARG
1	B	80	GLU
1	B	95	LEU
1	B	100	LYS
1	B	115	THR
1	B	116	SER
1	B	122	THR
1	B	125	ASP
1	B	143	MET
1	B	146	GLN
1	B	148	THR
1	B	152	ARG
1	B	153	MET
1	B	158	LEU
1	B	171	THR
1	B	173	ASP
1	B	182	ASN
1	B	193	ILE
1	B	198	ASN
1	B	199	LEU
1	B	206	GLU
1	B	218	LEU
1	B	225	THR
1	B	226	LYS
1	B	228	PRO
1	B	248	GLU
1	B	269	LYS
1	B	271	LEU
1	B	272	ASP

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Mol	Chain	Res	Type
1	B	273	LEU
1	B	274	ILE
1	B	278	THR
1	B	309	GLU
1	B	311	ASN
1	B	315	LEU
1	B	319	THR
1	B	330	GLN
1	B	336	THR
1	B	341	MET
1	B	344	MET
1	B	349	LEU
1	B	352	ASP
1	B	356	THR
1	B	360	TYR
1	B	374	VAL
1	B	385	VAL
1	B	390	ASN
1	B	409	ILE
1	B	418	ASN
1	B	419	MET
1	B	420	LEU
1	B	422	LEU
1	B	428	ARG
1	B	431	ILE
1	B	440	LEU
1	B	443	PHE
1	B	453	ASN
1	B	456	ASN
1	B	464	LEU
1	B	466	VAL
1	B	470	LEU
1	B	471	LEU
1	B	493	GLN
1	B	494	THR
1	B	496	GLU
1	B	502	LEU
1	B	515	ASN
1	B	523	ASP
1	B	527	VAL
1	B	536	THR
1	B	548	LYS

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Mol	Chain	Res	Type
1	B	549	LEU
1	B	565	LEU
1	B	588	ILE
1	B	606	THR
1	B	610	THR
1	B	612	SER
1	B	613	LEU
1	B	624	LEU
1	B	632	VAL
1	C	7	SER
1	C	8	VAL
1	C	10	THR
1	C	12	ASN
1	C	23	THR
1	C	27	THR
1	C	40	VAL
1	C	41	LEU
1	C	42	ASN
1	D	46	LYS
1	D	47	LEU
1	D	48	TRP
1	D	58	ILE
1	D	63	ILE
1	D	76	GLU
1	D	78	MET
1	D	79	ARG
1	D	80	GLU
1	D	95	LEU
1	D	100	LYS
1	D	115	THR
1	D	116	SER
1	D	122	THR
1	D	125	ASP
1	D	142	ILE
1	D	143	MET
1	D	146	GLN
1	D	148	THR
1	D	152	ARG
1	D	153	MET
1	D	158	LEU
1	D	161	LYS
1	D	171	THR

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Mol	Chain	Res	Type
1	D	173	ASP
1	D	182	ASN
1	D	193	ILE
1	D	198	ASN
1	D	199	LEU
1	D	206	GLU
1	D	218	LEU
1	D	225	THR
1	D	226	LYS
1	D	228	PRO
1	D	248	GLU
1	D	269	LYS
1	D	271	LEU
1	D	272	ASP
1	D	273	LEU
1	D	274	ILE
1	D	278	THR
1	D	309	GLU
1	D	311	ASN
1	D	315	LEU
1	D	319	THR
1	D	330	GLN
1	D	336	THR
1	D	341	MET
1	D	344	MET
1	D	349	LEU
1	D	352	ASP
1	D	356	THR
1	D	360	TYR
1	D	374	VAL
1	D	385	VAL
1	D	390	ASN
1	D	409	ILE
1	D	418	ASN
1	D	419	MET
1	D	420	LEU
1	D	422	LEU
1	D	428	ARG
1	D	431	ILE
1	D	440	LEU
1	D	443	PHE
1	D	453	ASN

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Mol	Chain	Res	Type
1	D	456	ASN
1	D	464	LEU
1	D	466	VAL
1	D	470	LEU
1	D	471	LEU
1	D	493	GLN
1	D	494	THR
1	D	496	GLU
1	D	502	LEU
1	D	515	ASN
1	D	523	ASP
1	D	527	VAL
1	D	536	THR
1	D	548	LYS
1	D	549	LEU
1	D	565	LEU
1	D	588	ILE
1	D	606	THR
1	D	610	THR
1	D	612	SER
1	D	613	LEU
1	D	624	LEU
1	D	632	VAL
1	E	7	SER
1	E	8	VAL
1	E	10	THR
1	E	12	ASN
1	E	23	THR
1	E	27	THR
1	E	40	VAL
1	E	41	LEU
1	E	42	ASN
1	F	46	LYS
1	F	47	LEU
1	F	48	TRP
1	F	51	VAL
1	F	76	GLU
1	F	78	MET
1	F	79	ARG
1	F	80	GLU
1	F	95	LEU
1	F	100	LYS

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Mol	Chain	Res	Type
1	F	115	THR
1	F	116	SER
1	F	122	THR
1	F	125	ASP
1	F	143	MET
1	F	146	GLN
1	F	148	THR
1	F	152	ARG
1	F	153	MET
1	F	158	LEU
1	F	171	THR
1	F	173	ASP
1	F	182	ASN
1	F	193	ILE
1	F	198	ASN
1	F	199	LEU
1	F	206	GLU
1	F	218	LEU
1	F	225	THR
1	F	226	LYS
1	F	228	PRO
1	F	248	GLU
1	F	269	LYS
1	F	271	LEU
1	F	272	ASP
1	F	273	LEU
1	F	274	ILE
1	F	278	THR
1	F	309	GLU
1	F	311	ASN
1	F	315	LEU
1	F	319	THR
1	F	330	GLN
1	F	336	THR
1	F	341	MET
1	F	344	MET
1	F	349	LEU
1	F	352	ASP
1	F	356	THR
1	F	360	TYR
1	F	374	VAL
1	F	385	VAL

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Mol	Chain	Res	Type
1	F	390	ASN
1	F	409	ILE
1	F	418	ASN
1	F	419	MET
1	F	420	LEU
1	F	422	LEU
1	F	428	ARG
1	F	431	ILE
1	F	440	LEU
1	F	443	PHE
1	F	453	ASN
1	F	456	ASN
1	F	464	LEU
1	F	466	VAL
1	F	470	LEU
1	F	471	LEU
1	F	493	GLN
1	F	494	THR
1	F	496	GLU
1	F	502	LEU
1	F	515	ASN
1	F	523	ASP
1	F	527	VAL
1	F	536	THR
1	F	548	LYS
1	F	549	LEU
1	F	565	LEU
1	F	588	ILE
1	F	606	THR
1	F	610	THR
1	F	612	SER
1	F	613	LEU
1	F	624	LEU
1	F	632	VAL
1	G	7	SER
1	G	8	VAL
1	G	10	THR
1	G	12	ASN
1	G	23	THR
1	G	27	THR
1	G	40	VAL
1	G	41	LEU

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Mol	Chain	Res	Type
1	G	42	ASN
1	H	46	LYS
1	H	47	LEU
1	H	48	TRP
1	H	51	VAL
1	H	76	GLU
1	H	78	MET
1	H	79	ARG
1	H	80	GLU
1	H	95	LEU
1	H	100	LYS
1	H	115	THR
1	H	116	SER
1	H	122	THR
1	H	125	ASP
1	H	143	MET
1	H	146	GLN
1	H	148	THR
1	H	152	ARG
1	H	153	MET
1	H	158	LEU
1	H	171	THR
1	H	173	ASP
1	H	182	ASN
1	H	193	ILE
1	H	198	ASN
1	H	199	LEU
1	H	206	GLU
1	H	218	LEU
1	H	225	THR
1	H	226	LYS
1	H	228	PRO
1	H	248	GLU
1	H	269	LYS
1	H	271	LEU
1	H	272	ASP
1	H	273	LEU
1	H	274	ILE
1	H	278	THR
1	H	309	GLU
1	H	311	ASN
1	H	315	LEU

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Mol	Chain	Res	Type
1	H	319	THR
1	H	330	GLN
1	H	336	THR
1	H	341	MET
1	H	344	MET
1	H	349	LEU
1	H	352	ASP
1	H	356	THR
1	H	360	TYR
1	H	374	VAL
1	H	385	VAL
1	H	390	ASN
1	H	409	ILE
1	H	418	ASN
1	H	419	MET
1	H	420	LEU
1	H	422	LEU
1	H	428	ARG
1	H	431	ILE
1	H	440	LEU
1	H	443	PHE
1	H	453	ASN
1	H	456	ASN
1	H	464	LEU
1	H	466	VAL
1	H	470	LEU
1	H	471	LEU
1	H	493	GLN
1	H	494	THR
1	H	496	GLU
1	H	502	LEU
1	H	515	ASN
1	H	523	ASP
1	H	527	VAL
1	H	536	THR
1	H	548	LYS
1	H	549	LEU
1	H	565	LEU
1	H	588	ILE
1	H	606	THR
1	H	610	THR
1	H	612	SER

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Mol	Chain	Res	Type
1	H	613	LEU
1	H	624	LEU
1	H	632	VAL
1	I	7	SER
1	I	8	VAL
1	I	10	THR
1	I	12	ASN
1	I	23	THR
1	I	27	THR
1	I	40	VAL
1	I	41	LEU
1	I	42	ASN
1	J	46	LYS
1	J	47	LEU
1	J	48	TRP
1	J	60	SER
1	J	76	GLU
1	J	78	MET
1	J	79	ARG
1	J	80	GLU
1	J	95	LEU
1	J	100	LYS
1	J	115	THR
1	J	116	SER
1	J	122	THR
1	J	125	ASP
1	J	143	MET
1	J	146	GLN
1	J	148	THR
1	J	152	ARG
1	J	153	MET
1	J	158	LEU
1	J	161	LYS
1	J	171	THR
1	J	173	ASP
1	J	182	ASN
1	J	193	ILE
1	J	198	ASN
1	J	199	LEU
1	J	206	GLU
1	J	218	LEU
1	J	225	THR

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Mol	Chain	Res	Type
1	J	226	LYS
1	J	228	PRO
1	J	248	GLU
1	J	269	LYS
1	J	271	LEU
1	J	272	ASP
1	J	273	LEU
1	J	274	ILE
1	J	278	THR
1	J	309	GLU
1	J	311	ASN
1	J	315	LEU
1	J	319	THR
1	J	330	GLN
1	J	336	THR
1	J	341	MET
1	J	344	MET
1	J	349	LEU
1	J	352	ASP
1	J	356	THR
1	J	360	TYR
1	J	374	VAL
1	J	385	VAL
1	J	390	ASN
1	J	409	ILE
1	J	418	ASN
1	J	419	MET
1	J	420	LEU
1	J	422	LEU
1	J	428	ARG
1	J	431	ILE
1	J	440	LEU
1	J	443	PHE
1	J	453	ASN
1	J	456	ASN
1	J	464	LEU
1	J	466	VAL
1	J	470	LEU
1	J	471	LEU
1	J	493	GLN
1	J	494	THR
1	J	496	GLU

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Mol	Chain	Res	Type
1	J	502	LEU
1	J	515	ASN
1	J	523	ASP
1	J	527	VAL
1	J	536	THR
1	J	548	LYS
1	J	549	LEU
1	J	565	LEU
1	J	588	ILE
1	J	606	THR
1	J	610	THR
1	J	612	SER
1	J	613	LEU
1	J	624	LEU
1	J	632	VAL
1	K	7	SER
1	K	8	VAL
1	K	10	THR
1	K	12	ASN
1	K	23	THR
1	K	27	THR
1	K	40	VAL
1	K	41	LEU
1	K	42	ASN
1	L	46	LYS
1	L	47	LEU
1	L	48	TRP
1	L	51	VAL
1	L	76	GLU
1	L	78	MET
1	L	79	ARG
1	L	80	GLU
1	L	95	LEU
1	L	100	LYS
1	L	115	THR
1	L	116	SER
1	L	122	THR
1	L	125	ASP
1	L	142	ILE
1	L	143	MET
1	L	146	GLN
1	L	148	THR

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Mol	Chain	Res	Type
1	L	152	ARG
1	L	153	MET
1	L	158	LEU
1	L	171	THR
1	L	173	ASP
1	L	182	ASN
1	L	193	ILE
1	L	198	ASN
1	L	199	LEU
1	L	206	GLU
1	L	218	LEU
1	L	225	THR
1	L	226	LYS
1	L	228	PRO
1	L	248	GLU
1	L	269	LYS
1	L	271	LEU
1	L	272	ASP
1	L	273	LEU
1	L	274	ILE
1	L	278	THR
1	L	309	GLU
1	L	311	ASN
1	L	315	LEU
1	L	319	THR
1	L	330	GLN
1	L	336	THR
1	L	341	MET
1	L	344	MET
1	L	349	LEU
1	L	352	ASP
1	L	356	THR
1	L	360	TYR
1	L	374	VAL
1	L	385	VAL
1	L	390	ASN
1	L	409	ILE
1	L	418	ASN
1	L	419	MET
1	L	420	LEU
1	L	422	LEU
1	L	428	ARG

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Mol	Chain	Res	Type
1	L	431	ILE
1	L	440	LEU
1	L	443	PHE
1	L	453	ASN
1	L	456	ASN
1	L	464	LEU
1	L	466	VAL
1	L	470	LEU
1	L	471	LEU
1	L	493	GLN
1	L	494	THR
1	L	496	GLU
1	L	502	LEU
1	L	515	ASN
1	L	523	ASP
1	L	527	VAL
1	L	536	THR
1	L	548	LYS
1	L	549	LEU
1	L	565	LEU
1	L	588	ILE
1	L	606	THR
1	L	610	THR
1	L	612	SER
1	L	613	LEU
1	L	624	LEU
1	L	632	VAL
1	M	7	SER
1	M	8	VAL
1	M	10	THR
1	M	12	ASN
1	M	23	THR
1	M	27	THR
1	M	40	VAL
1	M	41	LEU
1	M	42	ASN
1	N	46	LYS
1	N	47	LEU
1	N	48	TRP
1	N	51	VAL
1	N	76	GLU
1	N	78	MET

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Mol	Chain	Res	Type
1	N	79	ARG
1	N	80	GLU
1	N	95	LEU
1	N	100	LYS
1	N	115	THR
1	N	116	SER
1	N	122	THR
1	N	125	ASP
1	N	142	ILE
1	N	143	MET
1	N	146	GLN
1	N	148	THR
1	N	153	MET
1	N	158	LEU
1	N	161	LYS
1	N	171	THR
1	N	173	ASP
1	N	182	ASN
1	N	193	ILE
1	N	198	ASN
1	N	199	LEU
1	N	206	GLU
1	N	218	LEU
1	N	225	THR
1	N	226	LYS
1	N	228	PRO
1	N	248	GLU
1	N	269	LYS
1	N	271	LEU
1	N	272	ASP
1	N	273	LEU
1	N	274	ILE
1	N	278	THR
1	N	309	GLU
1	N	311	ASN
1	N	315	LEU
1	N	319	THR
1	N	330	GLN
1	N	336	THR
1	N	341	MET
1	N	344	MET
1	N	349	LEU

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Mol	Chain	Res	Type
1	N	352	ASP
1	N	356	THR
1	N	360	TYR
1	N	374	VAL
1	N	385	VAL
1	N	390	ASN
1	N	409	ILE
1	N	418	ASN
1	N	419	MET
1	N	420	LEU
1	N	422	LEU
1	N	428	ARG
1	N	431	ILE
1	N	440	LEU
1	N	443	PHE
1	N	453	ASN
1	N	456	ASN
1	N	464	LEU
1	N	466	VAL
1	N	470	LEU
1	N	471	LEU
1	N	493	GLN
1	N	494	THR
1	N	496	GLU
1	N	502	LEU
1	N	515	ASN
1	N	523	ASP
1	N	527	VAL
1	N	530	ARG
1	N	536	THR
1	N	548	LYS
1	N	549	LEU
1	N	565	LEU
1	N	588	ILE
1	N	606	THR
1	N	610	THR
1	N	612	SER
1	N	613	LEU
1	N	624	LEU
1	N	632	VAL
1	O	7	SER
1	O	8	VAL

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Mol	Chain	Res	Type
1	O	10	THR
1	O	12	ASN
1	O	23	THR
1	O	27	THR
1	O	40	VAL
1	O	41	LEU
1	O	42	ASN
1	P	46	LYS
1	P	47	LEU
1	P	48	TRP
1	P	51	VAL
1	P	55	VAL
1	P	76	GLU
1	P	78	MET
1	P	79	ARG
1	P	80	GLU
1	P	95	LEU
1	P	100	LYS
1	P	115	THR
1	P	116	SER
1	P	122	THR
1	P	125	ASP
1	P	127	LEU
1	P	143	MET
1	P	146	GLN
1	P	148	THR
1	P	152	ARG
1	P	153	MET
1	P	158	LEU
1	P	171	THR
1	P	173	ASP
1	P	182	ASN
1	P	193	ILE
1	P	198	ASN
1	P	199	LEU
1	P	206	GLU
1	P	218	LEU
1	P	225	THR
1	P	226	LYS
1	P	228	PRO
1	P	248	GLU
1	P	269	LYS

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Mol	Chain	Res	Type
1	P	271	LEU
1	P	272	ASP
1	P	273	LEU
1	P	274	ILE
1	P	278	THR
1	P	309	GLU
1	P	311	ASN
1	P	315	LEU
1	P	319	THR
1	P	330	GLN
1	P	336	THR
1	P	341	MET
1	P	344	MET
1	P	349	LEU
1	P	352	ASP
1	P	356	THR
1	P	360	TYR
1	P	374	VAL
1	P	385	VAL
1	P	390	ASN
1	P	409	ILE
1	P	418	ASN
1	P	419	MET
1	P	420	LEU
1	P	422	LEU
1	P	428	ARG
1	P	431	ILE
1	P	440	LEU
1	P	443	PHE
1	P	453	ASN
1	P	456	ASN
1	P	464	LEU
1	P	466	VAL
1	P	470	LEU
1	P	471	LEU
1	P	472	ARG
1	P	493	GLN
1	P	494	THR
1	P	496	GLU
1	P	502	LEU
1	P	515	ASN
1	P	523	ASP

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Mol	Chain	Res	Type
1	P	527	VAL
1	P	536	THR
1	P	548	LYS
1	P	549	LEU
1	P	565	LEU
1	P	588	ILE
1	P	606	THR
1	P	610	THR
1	P	612	SER
1	P	613	LEU
1	P	624	LEU
1	P	632	VAL
1	Q	7	SER
1	Q	8	VAL
1	Q	10	THR
1	Q	12	ASN
1	Q	23	THR
1	Q	27	THR
1	Q	40	VAL
1	Q	41	LEU
1	Q	42	ASN
1	R	46	LYS
1	R	47	LEU
1	R	48	TRP
1	R	51	VAL
1	R	76	GLU
1	R	78	MET
1	R	79	ARG
1	R	80	GLU
1	R	95	LEU
1	R	100	LYS
1	R	115	THR
1	R	116	SER
1	R	122	THR
1	R	125	ASP
1	R	143	MET
1	R	146	GLN
1	R	148	THR
1	R	152	ARG
1	R	153	MET
1	R	158	LEU
1	R	171	THR

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Mol	Chain	Res	Type
1	R	173	ASP
1	R	182	ASN
1	R	193	ILE
1	R	198	ASN
1	R	199	LEU
1	R	206	GLU
1	R	218	LEU
1	R	225	THR
1	R	226	LYS
1	R	228	PRO
1	R	248	GLU
1	R	269	LYS
1	R	271	LEU
1	R	272	ASP
1	R	273	LEU
1	R	274	ILE
1	R	278	THR
1	R	309	GLU
1	R	311	ASN
1	R	315	LEU
1	R	319	THR
1	R	330	GLN
1	R	336	THR
1	R	341	MET
1	R	344	MET
1	R	349	LEU
1	R	352	ASP
1	R	356	THR
1	R	360	TYR
1	R	374	VAL
1	R	385	VAL
1	R	390	ASN
1	R	409	ILE
1	R	418	ASN
1	R	419	MET
1	R	420	LEU
1	R	422	LEU
1	R	428	ARG
1	R	431	ILE
1	R	440	LEU
1	R	443	PHE
1	R	453	ASN

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Mol	Chain	Res	Type
1	R	456	ASN
1	R	464	LEU
1	R	466	VAL
1	R	470	LEU
1	R	471	LEU
1	R	493	GLN
1	R	494	THR
1	R	496	GLU
1	R	502	LEU
1	R	515	ASN
1	R	523	ASP
1	R	527	VAL
1	R	530	ARG
1	R	536	THR
1	R	548	LYS
1	R	549	LEU
1	R	565	LEU
1	R	588	ILE
1	R	606	THR
1	R	610	THR
1	R	612	SER
1	R	613	LEU
1	R	624	LEU
1	R	632	VAL
1	S	7	SER
1	S	8	VAL
1	S	10	THR
1	S	12	ASN
1	S	23	THR
1	S	27	THR
1	S	40	VAL
1	S	41	LEU
1	S	42	ASN
1	T	46	LYS
1	T	47	LEU
1	T	48	TRP
1	T	51	VAL
1	T	76	GLU
1	T	78	MET
1	T	79	ARG
1	T	80	GLU
1	T	95	LEU

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Mol	Chain	Res	Type
1	T	100	LYS
1	T	101	THR
1	T	115	THR
1	T	116	SER
1	T	122	THR
1	T	125	ASP
1	T	142	ILE
1	T	143	MET
1	T	146	GLN
1	T	148	THR
1	T	152	ARG
1	T	153	MET
1	T	158	LEU
1	T	171	THR
1	T	173	ASP
1	T	182	ASN
1	T	193	ILE
1	T	198	ASN
1	T	199	LEU
1	T	206	GLU
1	T	218	LEU
1	T	225	THR
1	T	226	LYS
1	T	228	PRO
1	T	248	GLU
1	T	269	LYS
1	T	271	LEU
1	T	272	ASP
1	T	273	LEU
1	T	274	ILE
1	T	278	THR
1	T	309	GLU
1	T	311	ASN
1	T	315	LEU
1	T	319	THR
1	T	330	GLN
1	T	336	THR
1	T	341	MET
1	T	344	MET
1	T	349	LEU
1	T	352	ASP
1	T	356	THR

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Mol	Chain	Res	Type
1	T	360	TYR
1	T	374	VAL
1	T	385	VAL
1	T	390	ASN
1	T	409	ILE
1	T	418	ASN
1	T	419	MET
1	T	420	LEU
1	T	422	LEU
1	T	428	ARG
1	T	431	ILE
1	T	440	LEU
1	T	443	PHE
1	T	453	ASN
1	T	456	ASN
1	T	464	LEU
1	T	466	VAL
1	T	470	LEU
1	T	471	LEU
1	T	493	GLN
1	T	494	THR
1	T	496	GLU
1	T	502	LEU
1	T	515	ASN
1	T	523	ASP
1	T	527	VAL
1	T	536	THR
1	T	548	LYS
1	T	549	LEU
1	T	565	LEU
1	T	588	ILE
1	T	606	THR
1	T	610	THR
1	T	612	SER
1	T	613	LEU
1	T	624	LEU
1	T	632	VAL
2	U	16	GLN
2	U	32	CYS
2	U	35	ARG
2	U	41	PHE
2	U	83	GLN

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Mol	Chain	Res	Type
2	U	93	ARG
2	U	123	ASN
2	U	139	ASN
2	U	161	VAL
2	U	164	ASP
2	U	198	GLN
2	U	208	ILE
2	U	211	LEU
2	U	245	GLN
2	U	263	GLN
2	U	285	LEU
2	U	291	THR
2	U	294	THR
2	U	297	PRO
2	U	305	LEU
2	V	4	ARG
2	V	11	TYR
2	V	16	GLN
2	V	23	LEU
2	V	32	CYS
2	V	47	SER
2	V	72	LEU
2	V	95	PRO
2	V	124	ASN
2	V	138	ILE
2	V	161	VAL
2	V	182	ILE
2	V	191	ARG
2	V	196	LEU
2	V	224	ASN
2	V	238	LYS
2	V	252	ASP
2	V	288	GLN
2	V	396	GLN
3	W	18	THR
3	W	19	ARG
3	W	30	LEU
3	W	47	LEU
3	W	53	ASP
3	W	79	LEU
3	W	80	ASP
3	W	88	ILE

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Mol	Chain	Res	Type
3	W	99	LEU
3	W	115	PRO
3	W	136	ASP
3	W	138	LEU
3	W	145	ASP
3	W	178	ILE
3	W	196	LYS
3	W	217	LEU
3	W	219	ASN
3	W	220	LEU
3	W	224	PRO
3	W	243	GLN
3	W	257	GLN
3	W	262	MET
3	W	264	GLU
3	W	266	VAL
3	W	285	LEU
3	W	313	LEU
3	W	318	VAL
3	W	319	GLN
3	W	332	ASP
3	W	337	VAL
3	W	340	LEU
3	W	347	GLN
3	W	385	THR
3	W	396	ARG
3	W	400	LEU
3	W	406	ASN
3	W	413	GLN
3	W	415	ASP
3	W	418	TYR
3	W	423	LEU
3	W	424	SER
3	W	428	THR
3	W	444	ASP
3	W	448	ASP
3	W	490	ASP
3	W	507	ASN
3	W	519	LEU
3	W	536	ASP
3	W	557	ASP
3	W	566	LEU

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Mol	Chain	Res	Type
3	W	577	LEU
3	W	591	ASP
3	W	596	ASN
3	W	605	THR
3	W	608	GLN
3	W	621	ASN
3	W	625	ARG
3	W	627	PHE
3	W	629	THR
3	W	637	THR
3	W	641	THR
3	W	643	HIS
3	W	654	GLU
3	W	657	LEU
3	W	672	THR
3	W	679	LEU
3	W	690	ARG
3	W	732	LEU
3	W	734	SER
3	W	742	SER
3	W	746	PHE
3	W	765	PHE
3	W	803	GLU
3	W	824	ARG
3	W	832	LEU
3	W	845	LEU
3	W	854	MET
3	W	894	THR
3	W	897	PHE
3	W	931	LEU
3	W	934	ASN
3	W	935	THR
3	W	938	TYR
3	W	969	ASP
3	W	971	VAL
3	W	980	LEU
3	W	1031	THR
3	W	1060	VAL
3	W	1064	GLN
3	W	1065	HIS
3	W	1070	VAL
3	W	1096	PHE

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Mol	Chain	Res	Type
3	W	1104	LEU
3	W	1134	VAL
3	W	1136	LEU
3	W	1146	PHE
3	W	1151	ASN
3	W	1177	ASN
3	W	1215	LEU
3	W	1221	PHE
3	W	1235	THR
3	W	1286	THR
3	W	1289	LEU
4	X	194	ILE
4	X	195	ILE
4	X	200	LEU
4	X	201	CYS
4	X	206	LEU
4	X	208	ASP
4	X	215	LEU
4	X	219	LEU
4	X	223	THR
4	X	245	CYS
4	X	247	THR
4	X	254	ASP
4	X	261	VAL
4	X	262	ARG
4	X	263	LEU
4	X	276	THR
4	X	277	VAL
4	X	282	TYR
4	X	283	ILE
4	X	284	ASP
4	X	287	GLN
4	X	291	LEU
4	X	298	LEU
4	X	302	LEU
4	X	303	GLN
4	X	316	THR
4	X	320	ASP
4	X	323	THR
4	X	330	ILE
4	X	342	LEU
4	X	350	LEU

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Mol	Chain	Res	Type
4	X	376	LEU
4	X	386	GLU
4	X	388	MET
4	X	399	ARG
4	X	400	GLU
4	X	406	LEU
4	X	416	ILE
4	X	423	CYS
4	X	425	ASN
4	X	429	ASN
4	X	432	ILE
4	X	438	PRO
4	X	455	GLN
4	X	473	VAL
4	X	476	LEU
4	X	480	LEU
4	X	487	VAL
4	X	488	LEU
4	X	500	ILE
4	X	506	GLN
4	X	531	CYS
4	X	540	LEU
4	X	545	LEU
4	X	552	ASP
4	X	575	MET
4	X	576	THR
4	X	583	VAL
4	X	587	MET
4	X	593	LEU
4	X	597	GLU
4	X	603	VAL
4	X	614	GLN
4	X	626	LEU
4	X	634	GLN
4	X	644	GLU
4	X	652	GLN
4	X	655	GLU
4	X	656	PHE
4	X	661	THR
4	X	662	LEU
4	X	692	THR
4	X	695	SER

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Mol	Chain	Res	Type
4	X	699	ASN
4	X	725	THR
4	X	737	ARG
4	X	747	ILE
4	X	748	GLN
4	X	750	MET
4	X	761	VAL
4	X	764	THR
4	X	776	GLN
4	X	778	ASP
4	X	784	LEU
4	X	787	ARG
4	X	795	ASP
4	X	799	ASP
4	X	800	ILE
4	X	801	ARG
4	X	831	LEU
4	X	839	LYS
4	X	844	LEU
4	X	845	PHE
4	X	862	GLU
4	X	873	GLN
4	X	880	LEU
4	X	883	ARG
4	X	886	ASP
4	X	889	ARG
4	X	893	VAL
4	X	907	ASP
4	X	914	ASP
4	X	915	LEU
4	X	919	LEU
4	X	920	LEU
4	X	939	LEU
4	X	945	VAL
4	X	949	HIS
4	X	950	VAL
4	X	963	GLN
4	X	967	THR
4	X	971	GLU
4	X	979	ARG
4	X	982	LEU
4	X	985	VAL

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Mol	Chain	Res	Type
4	X	998	PRO
4	X	1006	ARG
4	X	1010	ASN
4	X	1012	ARG
4	X	1019	THR
4	X	1030	GLN
4	X	1031	LEU
4	X	1033	ASP
4	X	1044	ASP
4	X	1047	TYR
4	X	1066	MET
4	X	1074	VAL
4	X	1075	LEU
4	X	1078	LEU
4	X	1094	LEU
4	X	1095	ASP
4	X	1100	LEU
4	X	1106	LYS
4	X	1112	ILE
4	X	1118	CYS
4	X	1140	GLU
4	X	1144	ASP
4	X	1150	ASN
4	X	1155	ASP
4	X	1156	THR
4	X	1160	GLU
4	X	1200	THR
4	X	1204	LEU
4	Y	25	LYS
4	Y	31	ASN
4	Y	37	THR
4	Y	39	PRO
4	Y	61	ASN
4	Y	73	ASN
4	Y	78	ILE
4	Y	79	ILE
4	Y	82	PRO
4	Y	85	ASP
4	Y	109	THR
4	Y	118	VAL
4	Y	121	VAL
4	Y	129	MET

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Mol	Chain	Res	Type
4	Y	134	GLU
4	Y	158	ARG
4	Y	160	PHE
4	Y	166	ASP
4	Y	207	LEU
4	Y	215	LEU
4	Y	226	MET
4	Y	240	VAL
4	Y	241	ASN
4	Y	245	CYS
4	Y	247	THR
4	Y	257	ARG
4	Y	283	ILE
4	Y	287	GLN
4	Y	299	LEU
4	Y	306	LEU
4	Y	310	LYS
4	Y	317	PHE
4	Y	320	ASP
4	Y	328	ARG
4	Y	353	GLN
4	Y	356	ASN
4	Y	390	LEU
4	Y	392	ASP
4	Y	403	ILE
4	Y	453	LEU
4	Y	466	THR
4	Y	479	LEU
4	Y	480	LEU
4	Y	481	ARG
4	Y	486	LEU
4	Y	487	VAL
4	Y	497	ILE
4	Y	499	THR
4	Y	500	ILE
4	Y	524	ASP
4	Y	531	CYS
4	Y	538	ASN
4	Y	541	VAL
4	Y	547	GLU
4	Y	552	ASP
4	Y	567	LEU

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Mol	Chain	Res	Type
4	Y	570	THR
4	Y	593	LEU
4	Y	649	ASN
4	Y	662	LEU
4	Y	686	ARG
4	Y	689	VAL
4	Y	721	VAL
4	Y	724	LEU
4	Y	739	VAL
4	Y	743	THR
4	Y	747	ILE
4	Y	753	THR
4	Y	758	LEU
4	Y	763	VAL
4	Y	773	ARG
4	Y	778	ASP
4	Y	779	VAL
4	Y	789	ASP
4	Y	811	LEU
4	Y	829	THR
4	Y	848	ASN
4	Y	889	ARG
4	Y	906	ASN
4	Y	915	LEU
4	Y	939	LEU
4	Y	954	PRO
4	Y	982	LEU
4	Y	985	VAL
4	Y	987	THR
4	Y	990	ASN
4	Y	996	MET
4	Y	1010	ASN
4	Y	1011	VAL
4	Y	1012	ARG
4	Y	1034	ASP
4	Y	1037	VAL
4	Y	1063	VAL
4	Y	1078	LEU
4	Y	1085	LEU
4	Y	1086	HIS
4	Y	1100	LEU
4	Y	1116	PRO

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Mol	Chain	Res	Type
4	Y	1123	GLN
4	Y	1144	ASP
4	Y	1146	LEU
4	Y	1149	THR
4	Y	1154	ILE
4	Y	1156	THR
4	Y	1160	GLU
4	Y	1169	TRP
4	Y	1184	LEU
4	Y	1204	LEU
4	Y	1209	TYR
4	Y	1211	ARG
4	Y	1214	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (416) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	9	ASN
1	A	42	ASN
1	B	144	ASN
1	B	160	GLN
1	B	162	HIS
1	B	209	ASN
1	B	233	HIS
1	B	311	ASN
1	B	312	ASN
1	B	330	GLN
1	B	383	GLN
1	B	390	ASN
1	B	406	ASN
1	B	410	ASN
1	B	418	ASN
1	B	421	HIS
1	B	453	ASN
1	B	456	ASN
1	B	492	ASN
1	B	504	ASN
1	B	512	ASN
1	B	515	ASN
1	B	579	ASN
1	B	585	GLN
1	B	635	GLN

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Mol	Chain	Res	Type
1	C	9	ASN
1	D	144	ASN
1	D	160	GLN
1	D	162	HIS
1	D	209	ASN
1	D	233	HIS
1	D	311	ASN
1	D	312	ASN
1	D	330	GLN
1	D	383	GLN
1	D	390	ASN
1	D	406	ASN
1	D	410	ASN
1	D	418	ASN
1	D	421	HIS
1	D	423	GLN
1	D	453	ASN
1	D	456	ASN
1	D	492	ASN
1	D	504	ASN
1	D	512	ASN
1	D	515	ASN
1	D	579	ASN
1	D	585	GLN
1	D	635	GLN
1	D	640	GLN
1	E	9	ASN
1	F	144	ASN
1	F	160	GLN
1	F	162	HIS
1	F	209	ASN
1	F	233	HIS
1	F	311	ASN
1	F	312	ASN
1	F	330	GLN
1	F	383	GLN
1	F	390	ASN
1	F	406	ASN
1	F	410	ASN
1	F	418	ASN
1	F	421	HIS
1	F	423	GLN

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Mol	Chain	Res	Type
1	F	453	ASN
1	F	456	ASN
1	F	492	ASN
1	F	504	ASN
1	F	512	ASN
1	F	515	ASN
1	F	579	ASN
1	F	585	GLN
1	F	635	GLN
1	F	640	GLN
1	H	144	ASN
1	H	160	GLN
1	H	162	HIS
1	H	209	ASN
1	H	233	HIS
1	H	311	ASN
1	H	312	ASN
1	H	330	GLN
1	H	383	GLN
1	H	390	ASN
1	H	406	ASN
1	H	410	ASN
1	H	418	ASN
1	H	423	GLN
1	H	453	ASN
1	H	456	ASN
1	H	492	ASN
1	H	504	ASN
1	H	512	ASN
1	H	515	ASN
1	H	579	ASN
1	H	585	GLN
1	H	635	GLN
1	H	640	GLN
1	I	9	ASN
1	J	144	ASN
1	J	160	GLN
1	J	162	HIS
1	J	209	ASN
1	J	233	HIS
1	J	311	ASN
1	J	312	ASN

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Mol	Chain	Res	Type
1	J	330	GLN
1	J	383	GLN
1	J	390	ASN
1	J	406	ASN
1	J	410	ASN
1	J	418	ASN
1	J	421	HIS
1	J	423	GLN
1	J	453	ASN
1	J	456	ASN
1	J	492	ASN
1	J	504	ASN
1	J	512	ASN
1	J	515	ASN
1	J	579	ASN
1	J	585	GLN
1	J	635	GLN
1	J	640	GLN
1	K	9	ASN
1	L	144	ASN
1	L	160	GLN
1	L	162	HIS
1	L	209	ASN
1	L	231	GLN
1	L	233	HIS
1	L	311	ASN
1	L	312	ASN
1	L	330	GLN
1	L	383	GLN
1	L	390	ASN
1	L	406	ASN
1	L	410	ASN
1	L	418	ASN
1	L	421	HIS
1	L	423	GLN
1	L	453	ASN
1	L	456	ASN
1	L	492	ASN
1	L	504	ASN
1	L	512	ASN
1	L	515	ASN
1	L	579	ASN

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Mol	Chain	Res	Type
1	L	585	GLN
1	L	635	GLN
1	L	640	GLN
1	N	144	ASN
1	N	160	GLN
1	N	209	ASN
1	N	233	HIS
1	N	311	ASN
1	N	312	ASN
1	N	330	GLN
1	N	383	GLN
1	N	390	ASN
1	N	406	ASN
1	N	410	ASN
1	N	418	ASN
1	N	421	HIS
1	N	423	GLN
1	N	453	ASN
1	N	456	ASN
1	N	492	ASN
1	N	504	ASN
1	N	512	ASN
1	N	515	ASN
1	N	579	ASN
1	N	585	GLN
1	N	635	GLN
1	N	640	GLN
1	O	9	ASN
1	P	144	ASN
1	P	160	GLN
1	P	162	HIS
1	P	209	ASN
1	P	233	HIS
1	P	311	ASN
1	P	312	ASN
1	P	330	GLN
1	P	383	GLN
1	P	390	ASN
1	P	406	ASN
1	P	410	ASN
1	P	418	ASN
1	P	421	HIS

Continued on next page...

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Mol	Chain	Res	Type
1	P	423	GLN
1	P	453	ASN
1	P	456	ASN
1	P	492	ASN
1	P	504	ASN
1	P	512	ASN
1	P	515	ASN
1	P	579	ASN
1	P	585	GLN
1	P	635	GLN
1	P	640	GLN
1	Q	3	ASN
1	Q	9	ASN
1	R	144	ASN
1	R	160	GLN
1	R	162	HIS
1	R	209	ASN
1	R	233	HIS
1	R	311	ASN
1	R	312	ASN
1	R	330	GLN
1	R	383	GLN
1	R	390	ASN
1	R	406	ASN
1	R	410	ASN
1	R	418	ASN
1	R	423	GLN
1	R	453	ASN
1	R	456	ASN
1	R	492	ASN
1	R	504	ASN
1	R	512	ASN
1	R	515	ASN
1	R	579	ASN
1	R	585	GLN
1	R	628	GLN
1	R	635	GLN
1	R	640	GLN
1	T	144	ASN
1	T	160	GLN
1	T	162	HIS
1	T	209	ASN

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Mol	Chain	Res	Type
1	T	233	HIS
1	T	311	ASN
1	T	312	ASN
1	T	330	GLN
1	T	383	GLN
1	T	390	ASN
1	T	406	ASN
1	T	410	ASN
1	T	418	ASN
1	T	423	GLN
1	T	453	ASN
1	T	456	ASN
1	T	492	ASN
1	T	504	ASN
1	T	512	ASN
1	T	515	ASN
1	T	579	ASN
1	T	585	GLN
1	T	635	GLN
1	T	640	GLN
2	U	3	GLN
2	U	12	ASN
2	U	24	ASN
2	U	27	GLN
2	U	43	HIS
2	U	69	ASN
2	U	75	HIS
2	U	124	ASN
2	U	140	GLN
2	U	158	HIS
2	U	198	GLN
2	U	224	ASN
2	U	242	ASN
2	U	245	GLN
2	U	251	ASN
2	U	263	GLN
2	U	275	GLN
2	U	276	HIS
2	U	310	GLN
2	U	314	ASN
2	U	343	GLN
2	U	357	ASN

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Mol	Chain	Res	Type
2	U	377	ASN
2	U	387	GLN
2	V	3	GLN
2	V	12	ASN
2	V	65	ASN
2	V	87	HIS
2	V	88	GLN
2	V	124	ASN
2	V	140	GLN
2	V	158	HIS
2	V	184	HIS
2	V	187	GLN
2	V	195	GLN
2	V	242	ASN
2	V	245	GLN
2	V	277	GLN
2	V	310	GLN
2	V	338	HIS
2	V	351	GLN
2	V	354	GLN
2	V	357	ASN
2	V	387	GLN
2	V	396	GLN
2	V	399	GLN
3	W	35	GLN
3	W	38	ASN
3	W	40	HIS
3	W	60	GLN
3	W	89	HIS
3	W	108	ASN
3	W	163	ASN
3	W	219	ASN
3	W	229	HIS
3	W	243	GLN
3	W	257	GLN
3	W	319	GLN
3	W	347	GLN
3	W	406	ASN
3	W	553	GLN
3	W	584	GLN
3	W	596	ASN
3	W	630	GLN

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Mol	Chain	Res	Type
3	W	633	ASN
3	W	638	HIS
3	W	651	ASN
3	W	685	ASN
3	W	768	ASN
3	W	788	GLN
3	W	816	ASN
3	W	830	HIS
3	W	934	ASN
3	W	1014	ASN
3	W	1038	ASN
3	W	1045	ASN
3	W	1047	GLN
3	W	1066	ASN
3	W	1151	ASN
3	W	1189	ASN
3	W	1249	HIS
3	W	1283	GLN
4	X	214	HIS
4	X	230	GLN
4	X	287	GLN
4	X	296	ASN
4	X	303	GLN
4	X	353	GLN
4	X	356	ASN
4	X	421	ASN
4	X	425	ASN
4	X	429	ASN
4	X	506	GLN
4	X	559	HIS
4	X	627	ASN
4	X	635	GLN
4	X	645	HIS
4	X	652	GLN
4	X	673	ASN
4	X	681	ASN
4	X	682	GLN
4	X	749	HIS
4	X	777	ASN
4	X	826	GLN
4	X	854	ASN
4	X	855	GLN

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Mol	Chain	Res	Type
4	X	873	GLN
4	X	940	GLN
4	X	944	ASN
4	X	962	GLN
4	X	973	ASN
4	X	986	GLN
4	X	990	ASN
4	X	1025	ASN
4	X	1053	GLN
4	X	1091	GLN
4	X	1134	HIS
4	X	1143	ASN
4	X	1150	ASN
4	X	1182	ASN
4	Y	48	GLN
4	Y	49	GLN
4	Y	57	GLN
4	Y	113	ASN
4	Y	120	ASN
4	Y	140	HIS
4	Y	308	ASN
4	Y	356	ASN
4	Y	358	GLN
4	Y	410	HIS
4	Y	415	GLN
4	Y	429	ASN
4	Y	559	HIS
4	Y	580	HIS
4	Y	614	GLN
4	Y	617	HIS
4	Y	627	ASN
4	Y	632	ASN
4	Y	652	GLN
4	Y	663	GLN
4	Y	699	ASN
4	Y	722	ASN
4	Y	748	GLN
4	Y	776	GLN
4	Y	835	HIS
4	Y	836	HIS
4	Y	848	ASN
4	Y	875	GLN

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Mol	Chain	Res	Type
4	Y	906	ASN
4	Y	940	GLN
4	Y	944	ASN
4	Y	949	HIS
4	Y	956	HIS
4	Y	973	ASN
4	Y	976	ASN
4	Y	981	ASN
4	Y	990	ASN
4	Y	1010	ASN
4	Y	1030	GLN
4	Y	1150	ASN
4	Y	1198	ASN

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 oligosaccharides in this entry.

5.6 Ligand geometry

10 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
5	MYR	K	649	1	13,14,15	0.44	0	12,13,15	0.49	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
5	MYR	I	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	M	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	S	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	Q	649	1	13,14,15	0.45	0	12,13,15	0.49	0
5	MYR	G	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	A	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	E	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	C	649	1	13,14,15	0.44	0	12,13,15	0.49	0
5	MYR	O	649	1	13,14,15	0.44	0	12,13,15	0.49	0

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	MYR	K	649	1	-	8/12/12/13	-
5	MYR	I	649	1	-	8/12/12/13	-
5	MYR	M	649	1	-	8/12/12/13	-
5	MYR	S	649	1	-	8/12/12/13	-
5	MYR	Q	649	1	-	8/12/12/13	-
5	MYR	G	649	1	-	8/12/12/13	-
5	MYR	A	649	1	-	8/12/12/13	-
5	MYR	E	649	1	-	8/12/12/13	-
5	MYR	C	649	1	-	8/12/12/13	-
5	MYR	O	649	1	-	8/12/12/13	-

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

All (80) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
5	E	649	MYR	C3-C4-C5-C6
5	K	649	MYR	C3-C4-C5-C6
5	Q	649	MYR	C3-C4-C5-C6
5	A	649	MYR	C3-C4-C5-C6
5	C	649	MYR	C3-C4-C5-C6

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Mol	Chain	Res	Type	Atoms
5	G	649	MYR	C3-C4-C5-C6
5	I	649	MYR	C3-C4-C5-C6
5	M	649	MYR	C3-C4-C5-C6
5	O	649	MYR	C3-C4-C5-C6
5	S	649	MYR	C3-C4-C5-C6
5	A	649	MYR	C11-C12-C13-C14
5	C	649	MYR	C11-C12-C13-C14
5	E	649	MYR	C11-C12-C13-C14
5	G	649	MYR	C11-C12-C13-C14
5	I	649	MYR	C11-C12-C13-C14
5	K	649	MYR	C11-C12-C13-C14
5	M	649	MYR	C11-C12-C13-C14
5	O	649	MYR	C11-C12-C13-C14
5	Q	649	MYR	C11-C12-C13-C14
5	S	649	MYR	C11-C12-C13-C14
5	A	649	MYR	C6-C7-C8-C9
5	K	649	MYR	C6-C7-C8-C9
5	O	649	MYR	C6-C7-C8-C9
5	C	649	MYR	C6-C7-C8-C9
5	E	649	MYR	C6-C7-C8-C9
5	G	649	MYR	C6-C7-C8-C9
5	I	649	MYR	C6-C7-C8-C9
5	M	649	MYR	C6-C7-C8-C9
5	Q	649	MYR	C6-C7-C8-C9
5	S	649	MYR	C6-C7-C8-C9
5	C	649	MYR	C2-C3-C4-C5
5	Q	649	MYR	C2-C3-C4-C5
5	A	649	MYR	C2-C3-C4-C5
5	E	649	MYR	C2-C3-C4-C5
5	G	649	MYR	C2-C3-C4-C5
5	I	649	MYR	C2-C3-C4-C5
5	K	649	MYR	C2-C3-C4-C5
5	M	649	MYR	C2-C3-C4-C5
5	O	649	MYR	C2-C3-C4-C5
5	S	649	MYR	C2-C3-C4-C5
5	G	649	MYR	C11-C10-C9-C8
5	M	649	MYR	C11-C10-C9-C8
5	A	649	MYR	C11-C10-C9-C8
5	C	649	MYR	C11-C10-C9-C8
5	E	649	MYR	C11-C10-C9-C8
5	I	649	MYR	C11-C10-C9-C8
5	K	649	MYR	C11-C10-C9-C8

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Mol	Chain	Res	Type	Atoms
5	O	649	MYR	C11-C10-C9-C8
5	Q	649	MYR	C11-C10-C9-C8
5	S	649	MYR	C11-C10-C9-C8
5	C	649	MYR	C4-C5-C6-C7
5	I	649	MYR	C4-C5-C6-C7
5	A	649	MYR	C4-C5-C6-C7
5	E	649	MYR	C4-C5-C6-C7
5	G	649	MYR	C4-C5-C6-C7
5	K	649	MYR	C4-C5-C6-C7
5	O	649	MYR	C4-C5-C6-C7
5	S	649	MYR	C4-C5-C6-C7
5	M	649	MYR	C4-C5-C6-C7
5	Q	649	MYR	C4-C5-C6-C7
5	A	649	MYR	C1-C2-C3-C4
5	C	649	MYR	C1-C2-C3-C4
5	E	649	MYR	C1-C2-C3-C4
5	G	649	MYR	C1-C2-C3-C4
5	I	649	MYR	C1-C2-C3-C4
5	K	649	MYR	C1-C2-C3-C4
5	M	649	MYR	C1-C2-C3-C4
5	O	649	MYR	C1-C2-C3-C4
5	Q	649	MYR	C1-C2-C3-C4
5	S	649	MYR	C1-C2-C3-C4
5	I	649	MYR	C5-C6-C7-C8
5	C	649	MYR	C5-C6-C7-C8
5	G	649	MYR	C5-C6-C7-C8
5	S	649	MYR	C5-C6-C7-C8
5	M	649	MYR	C5-C6-C7-C8
5	A	649	MYR	C5-C6-C7-C8
5	E	649	MYR	C5-C6-C7-C8
5	K	649	MYR	C5-C6-C7-C8
5	O	649	MYR	C5-C6-C7-C8
5	Q	649	MYR	C5-C6-C7-C8

There are no ring outliers.

10 monomers are involved in 280 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	K	649	MYR	27	0
5	I	649	MYR	29	0
5	M	649	MYR	26	0
5	S	649	MYR	30	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
5	Q	649	MYR	27	0
5	G	649	MYR	28	0
5	A	649	MYR	27	0
5	E	649	MYR	27	0
5	C	649	MYR	31	0
5	O	649	MYR	28	0

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

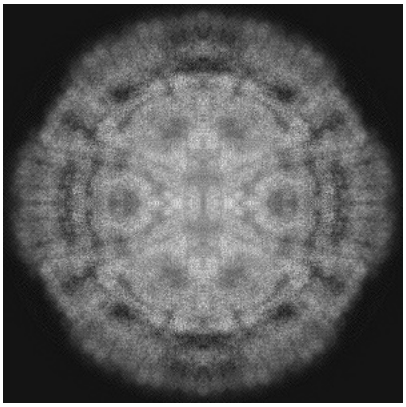
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-5160. These allow visual inspection of the internal detail of the map and identification of artifacts.

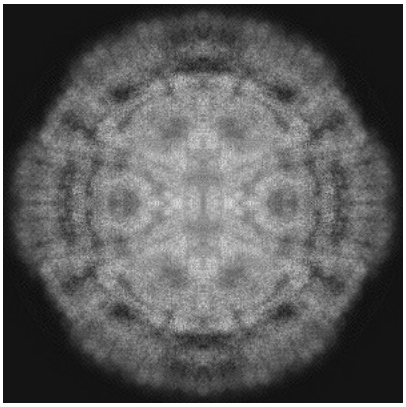
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

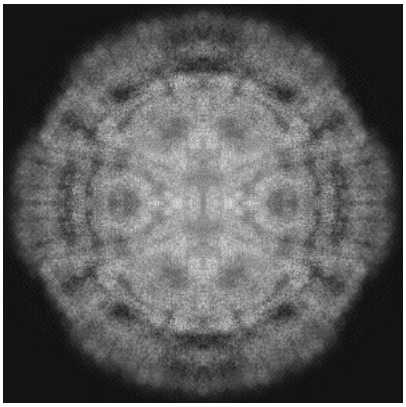
6.1.1 Primary map



X



Y

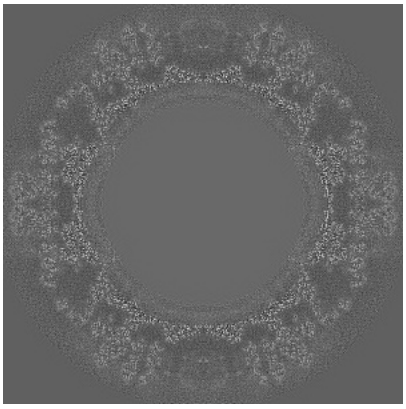


Z

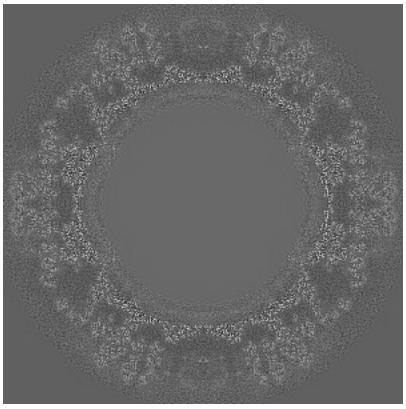
The images above show the map projected in three orthogonal directions.

6.2 Central slices

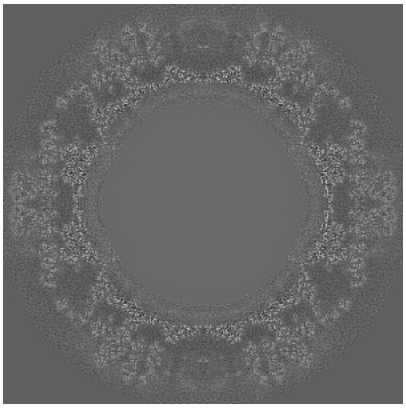
6.2.1 Primary map



X Index: 370



Y Index: 370

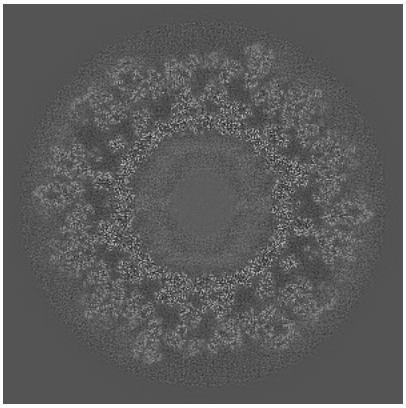


Z Index: 370

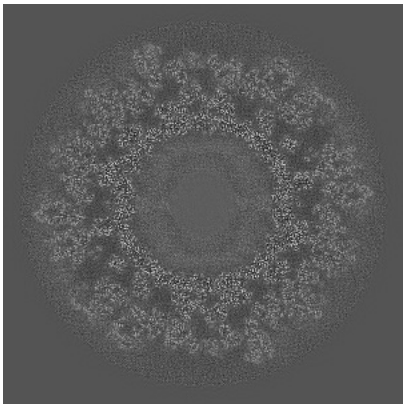
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

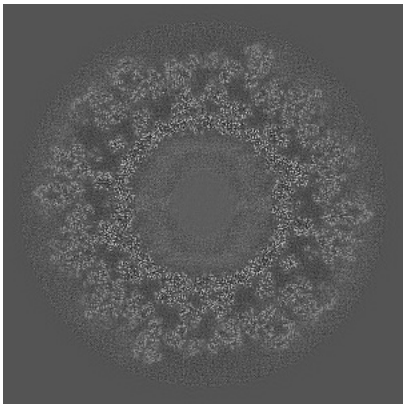
6.3.1 Primary map



X Index: 194



Y Index: 546

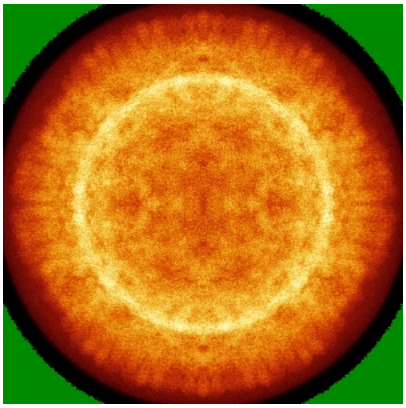


Z Index: 194

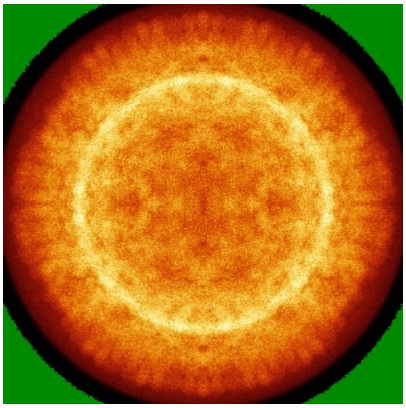
The images above show the largest variance slices of the map in three orthogonal directions.

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

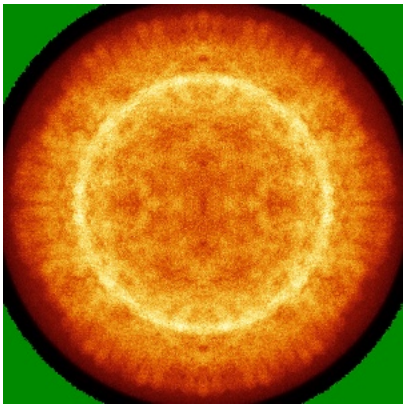
6.4.1 Primary map



X



Y

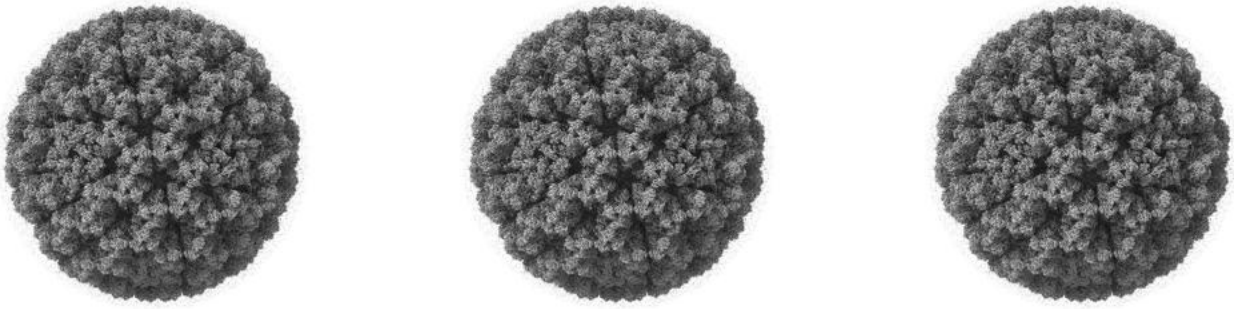


Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.05. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.6 Mask visualisation (i)

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

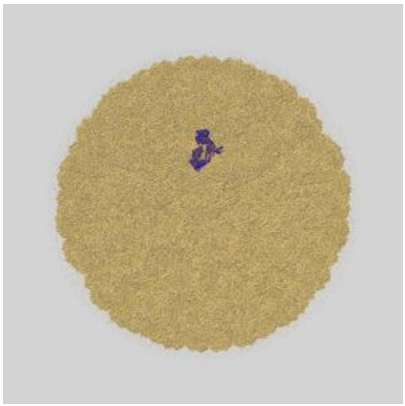
A mask typically either:

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

6.6.1 emd_5160_msk_1.map (i)

X

Y

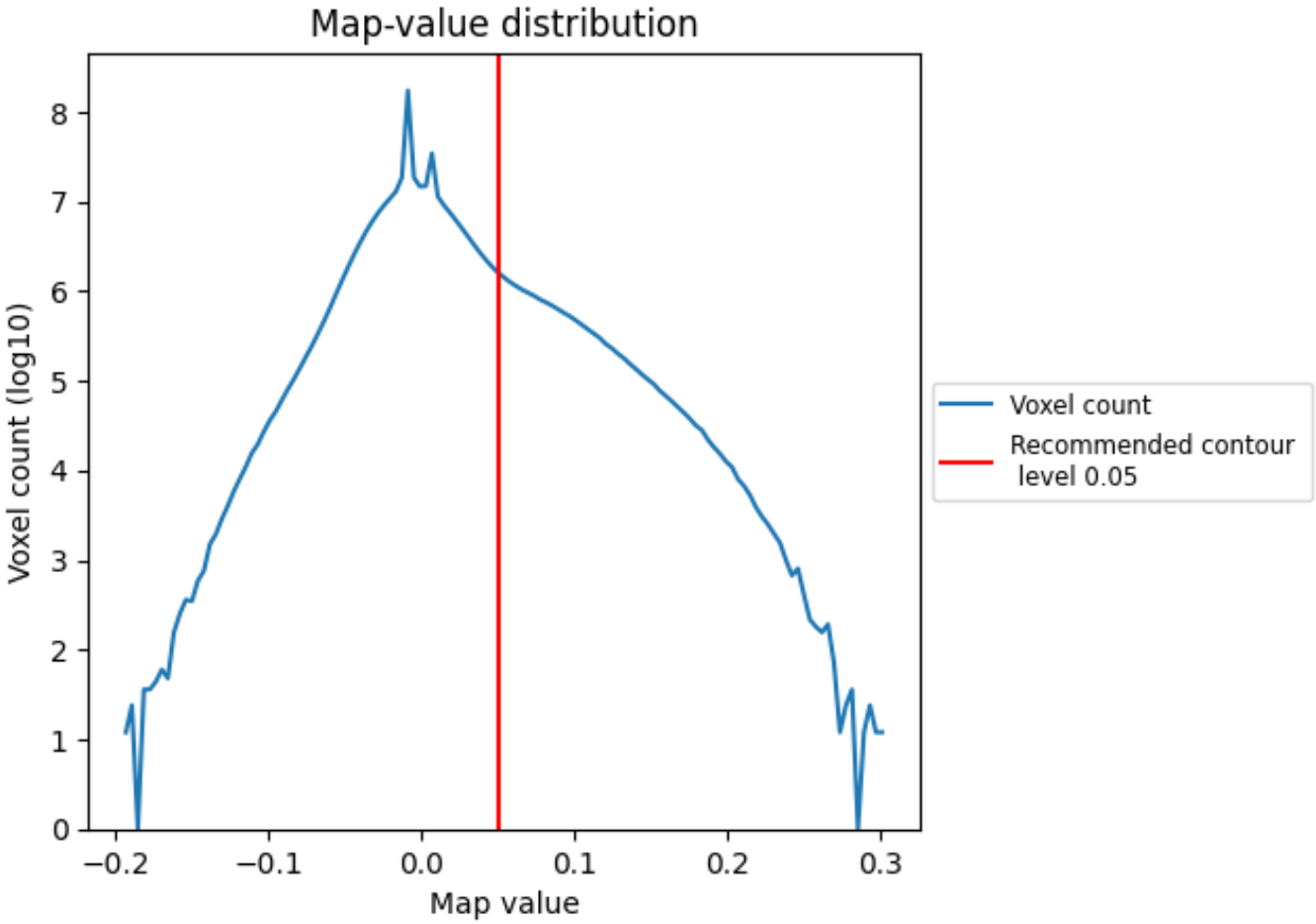


Z

7 Map analysis

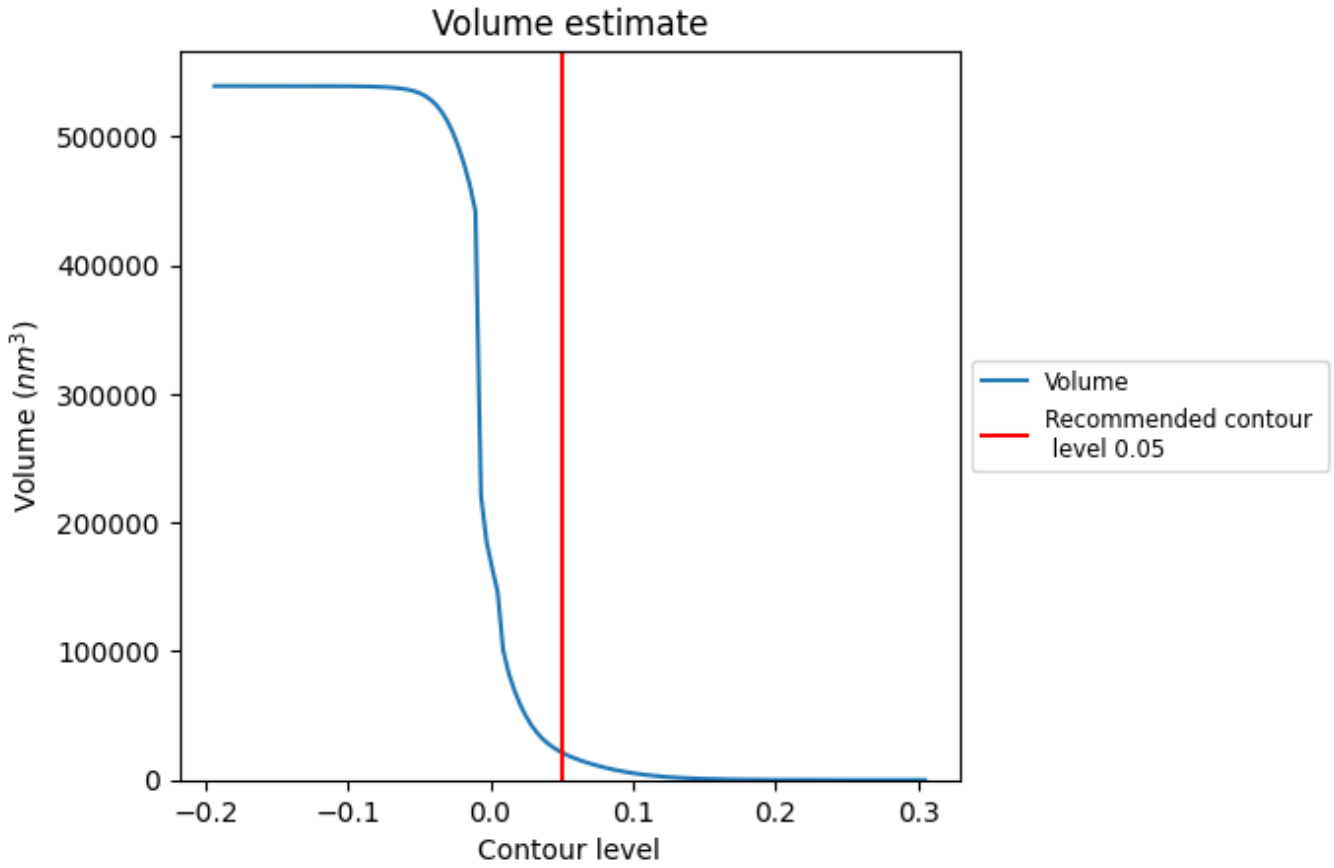
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

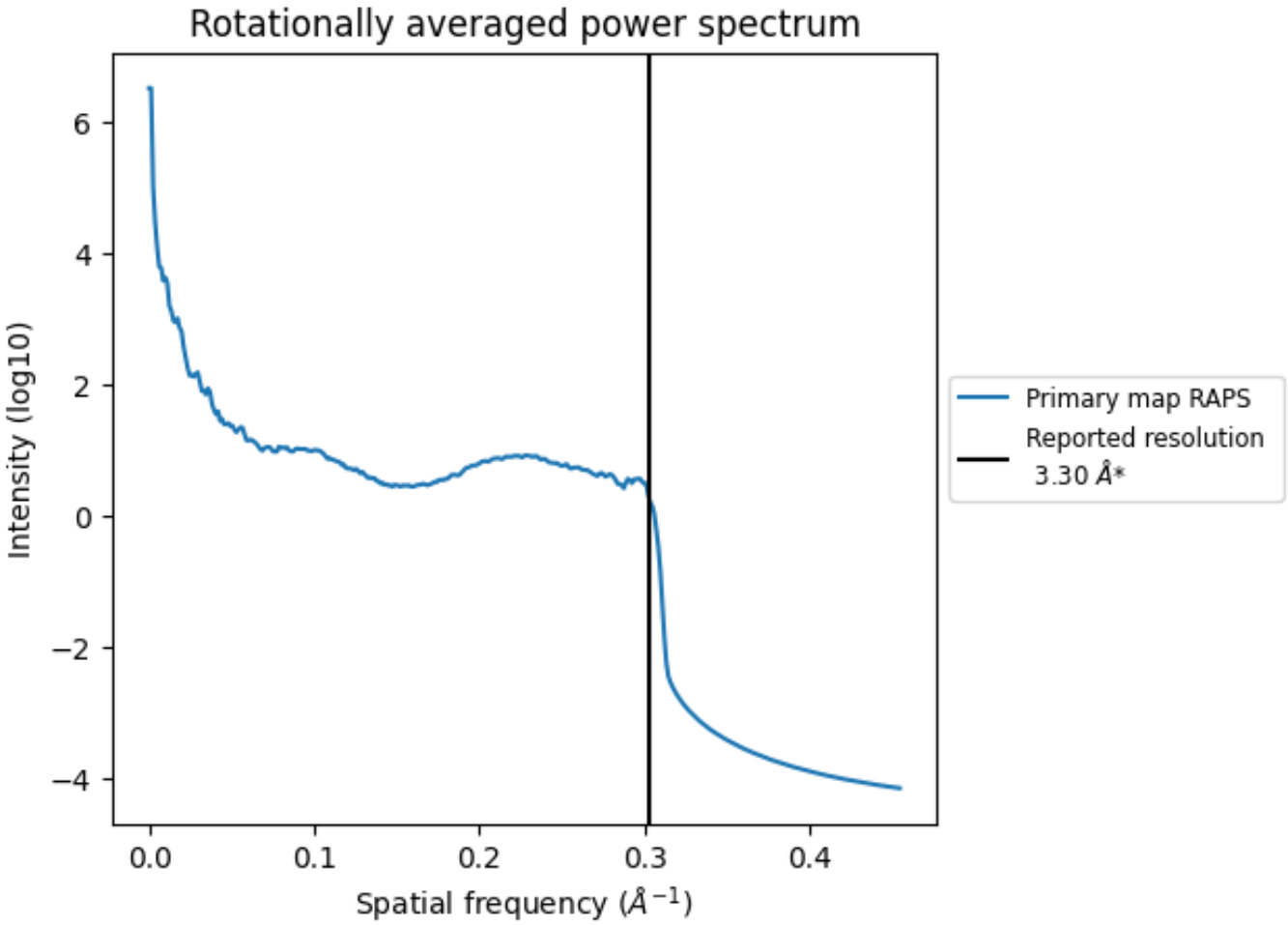
7.2 Volume estimate



The volume at the recommended contour level is 21462 nm^3; this corresponds to an approximate mass of 19387 kDa.

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

7.3 Rotationally averaged power spectrum (i)



*Reported resolution corresponds to spatial frequency of 0.303 $Å^{-1}$

8 Fourier-Shell correlation

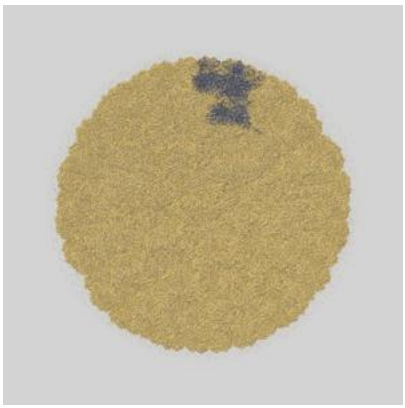
This section was not generated. No FSC curve or half-maps provided.

9 Map-model fit

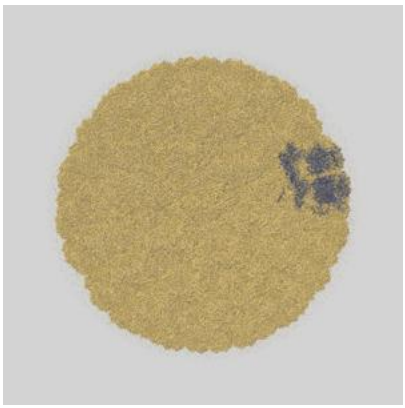
This section contains information regarding the fit between EMDB map EMD-5160 and PDB model 3IYL. Per-residue inclusion information can be found in section 3 on page 8.

9.1 Map-model overlays

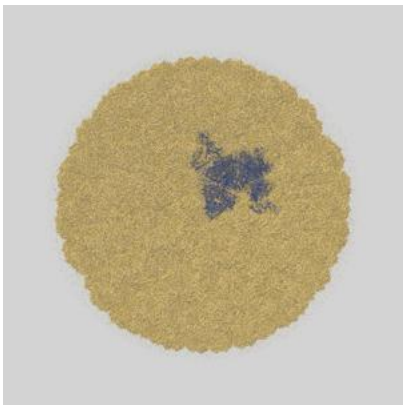
9.1.1 Map-model overlay



X



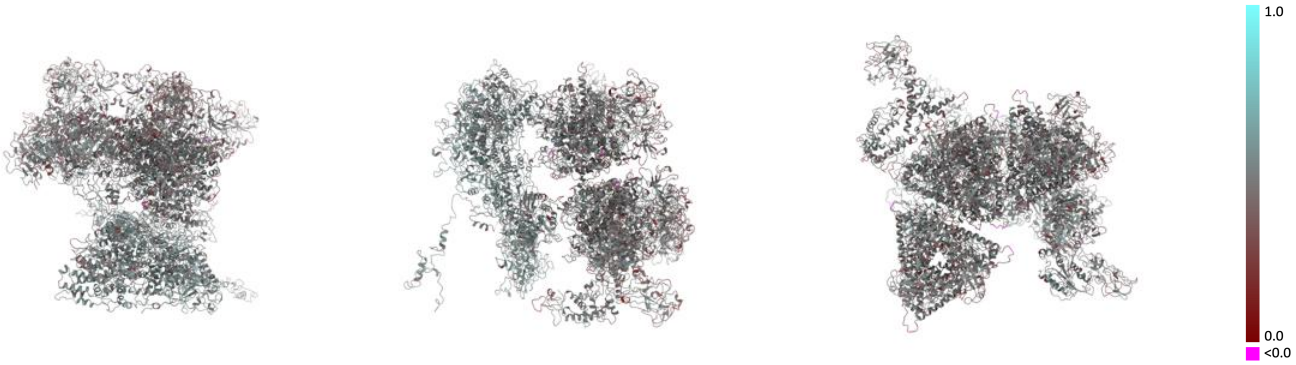
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.05 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

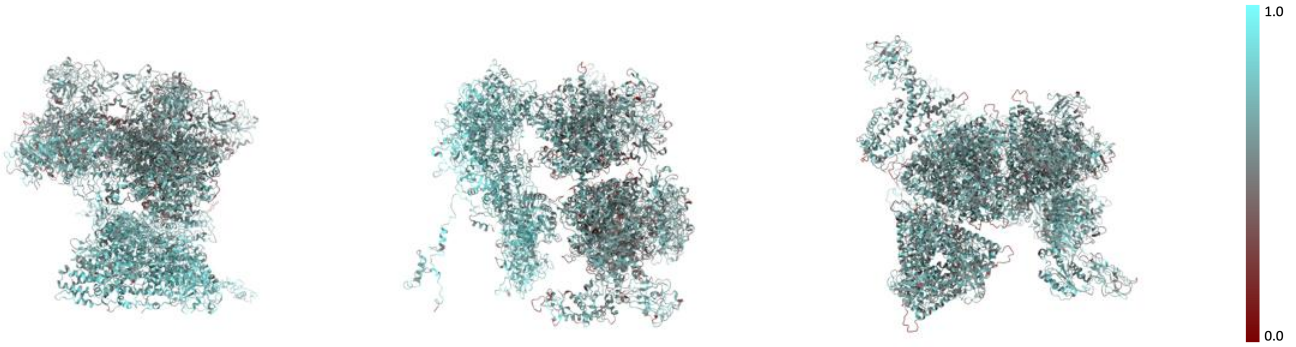
9.2 Q-score mapped to coordinate model



X Y Z

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

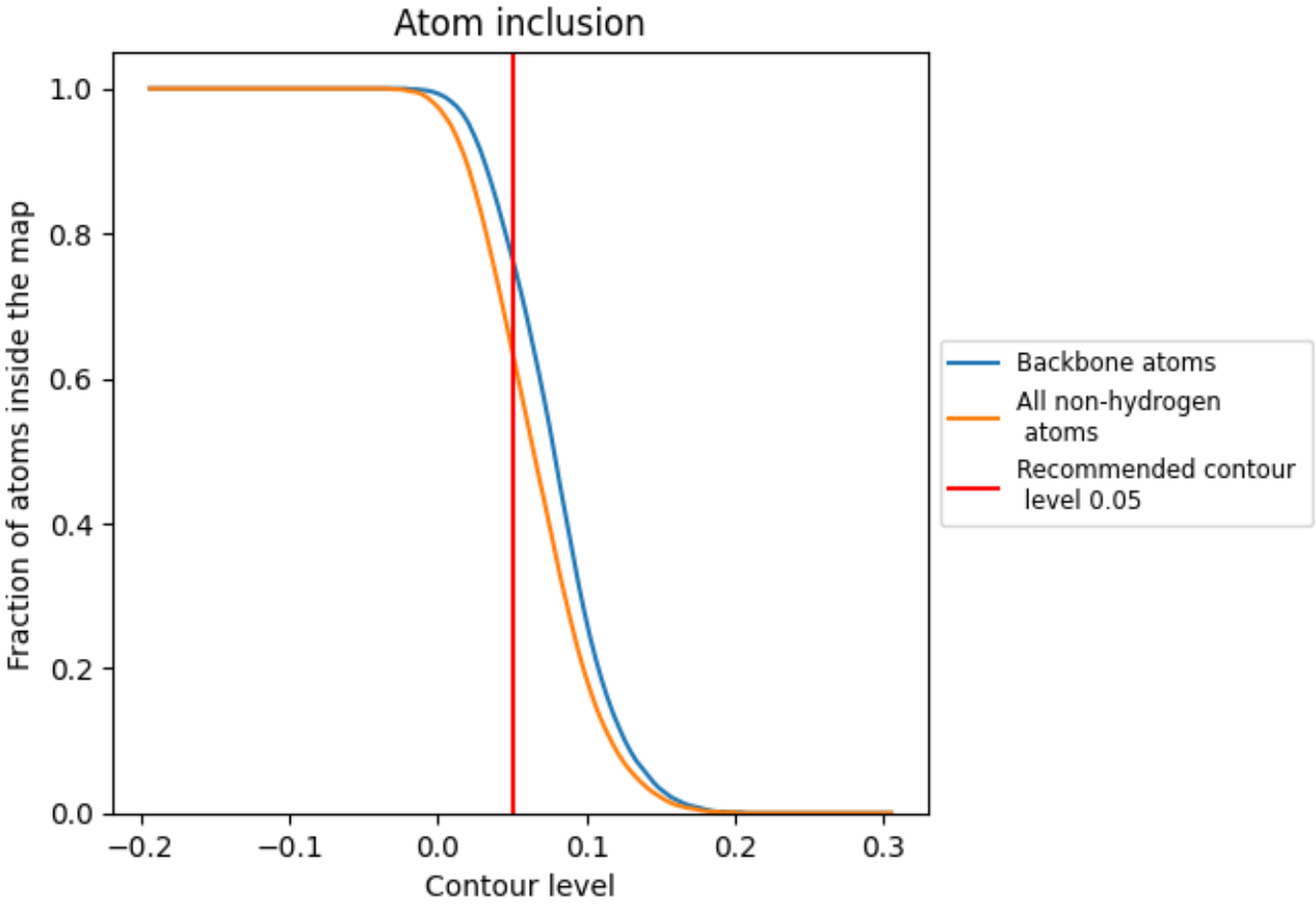
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.05).

9.4 Atom inclusion (i)



At the recommended contour level, 77% of all backbone atoms, 64% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.05) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6400	0.4680
A	0.4850	0.4200
B	0.5820	0.4440
C	0.5180	0.4100
D	0.5980	0.4510
E	0.4980	0.4050
F	0.5930	0.4470
G	0.5000	0.4020
H	0.5930	0.4490
I	0.4980	0.4310
J	0.5920	0.4490
K	0.4850	0.3870
L	0.5890	0.4460
M	0.5100	0.4070
N	0.5900	0.4550
O	0.5210	0.3990
P	0.5880	0.4440
Q	0.4880	0.4090
R	0.5920	0.4530
S	0.4660	0.3980
T	0.5860	0.4460
U	0.7550	0.5140
V	0.7040	0.4740
W	0.6610	0.4690
X	0.7580	0.5230
Y	0.7530	0.5230