Full wwPDB X-ray Structure Validation Report (i)

Feb 1, 2016 – 08:49 AM GMT

PDB ID	:	3G61
Title	:	Structure of P-glycoprotein Reveals a Molecular Basis for Poly-Specific Drug Binding
Authors	:	Aller, S.G.; Yu, J.; Ward, A.; Weng, Y.; Chittaboina, S.; Zhuo, R.; Harrell, P.M.; Trinh, Y.T.; Zhang, Q.; Urbatsch, I.L.; Chang, G.
Deposited on	:	2009-02-05
Resolution	:	4.35 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.
We welcome your comments at validation@mail.wwpdb.org
A user guide is available at
http://wwpdb.org/validation/2016/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The following versions of software and data (see references (1)) were used in the production of this report:

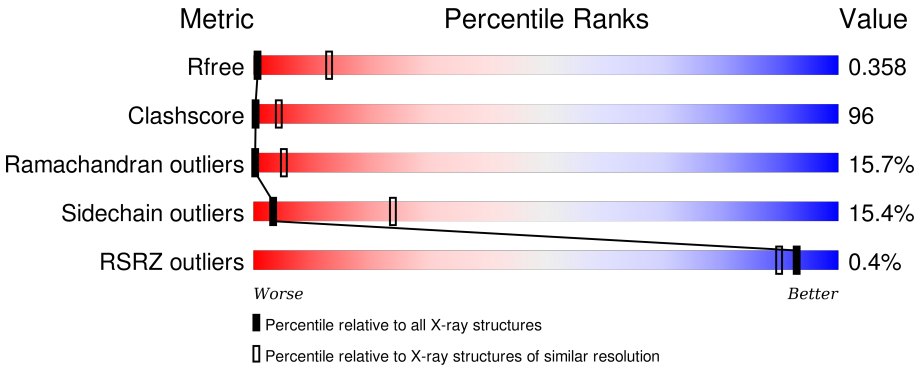
MolProbity	:	4.02b-467
Mogul	:	1.7 (RC4), CSD as536be (2015)
Xtriage (Phenix)	:	1.9-1692
EDS	:	rb-20026688
Percentile statistics	:	20151230.v01 (using entries in the PDB archive December 30th 2015)
Refmac	:	5.8.0135
CCP4	:	6.5.0
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	trunk26865

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.35 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	91344	1063 (5.08-3.60)
Clashscore	102246	1171 (5.08-3.60)
Ramachandran outliers	100387	1110 (5.08-3.60)
Sidechain outliers	100360	1093 (5.08-3.60)
RSRZ outliers	91569	1067 (5.08-3.60)

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

Mol	Chain	Length	Quality of chain
1	A	1284	13% 57% 19% • 8%
1	B	1284	12% 59% 19% • 8%

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
2	2J8	A	6002	-	-	-	X
2	2J8	B	6003	-	-	-	X
2	2J8	B	6004	-	-	-	X

2 Entry composition

There are 2 unique types of molecules in this entry. The entry contains 18448 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

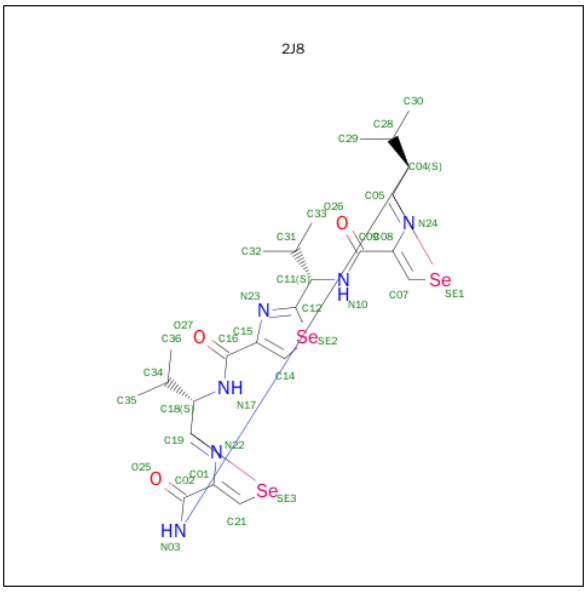
- Molecule 1 is a protein called Multidrug resistance protein 1a.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1182	Total	C	N	O	S	0	0	0
			9171	5895	1552	1686	38			
1	B	1182	Total	C	N	O	S	0	0	0
			9171	5895	1552	1686	38			

There are 16 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	1277	TYR	-	EXPRESSION TAG	UNP Q5I1Y5
A	1278	VAL	-	EXPRESSION TAG	UNP Q5I1Y5
A	1279	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
A	1280	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
A	1281	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
A	1282	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
A	1283	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
A	1284	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
B	1277	TYR	-	EXPRESSION TAG	UNP Q5I1Y5
B	1278	VAL	-	EXPRESSION TAG	UNP Q5I1Y5
B	1279	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
B	1280	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
B	1281	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
B	1282	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
B	1283	HIS	-	EXPRESSION TAG	UNP Q5I1Y5
B	1284	HIS	-	EXPRESSION TAG	UNP Q5I1Y5

- Molecule 2 is (4S,11S,18S)-4,11,18-TRI(PROPAN-2-YL)-6,13,20-TRISELENA-3,10,17,22,23,24-HEXAAZATETRACYCLO[17.2.1.1 5,8 .1 12,15]TETRACOSA-1(21),5(24),7,12(23),14,19(22)-HEXAENE-2,9,16-TRIONE (three-letter code: 2J8) (formula: $C_{24}H_{30}N_6O_3Se_3$).



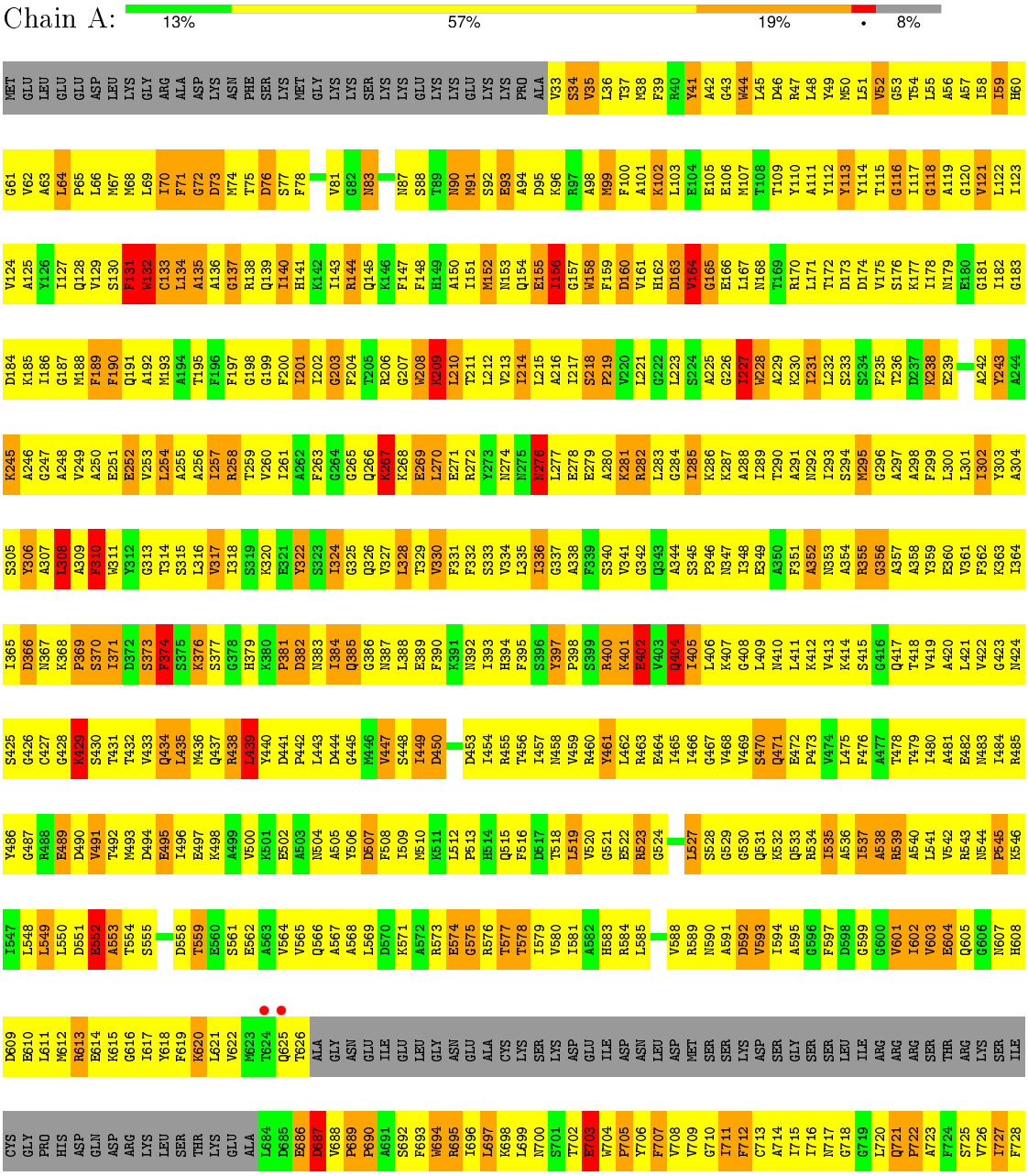
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
2	A	1	Total	C	N	O	Se	0	0
			36	24	6	3	3		
2	A	1	Total	C	N	O	Se	0	0
			17	11	3	1	2		
2	B	1	Total	C	N	O	Se	0	0
			36	24	6	3	3		
2	B	1	Total	C	N	O	Se	0	0
			17	11	3	1	2		

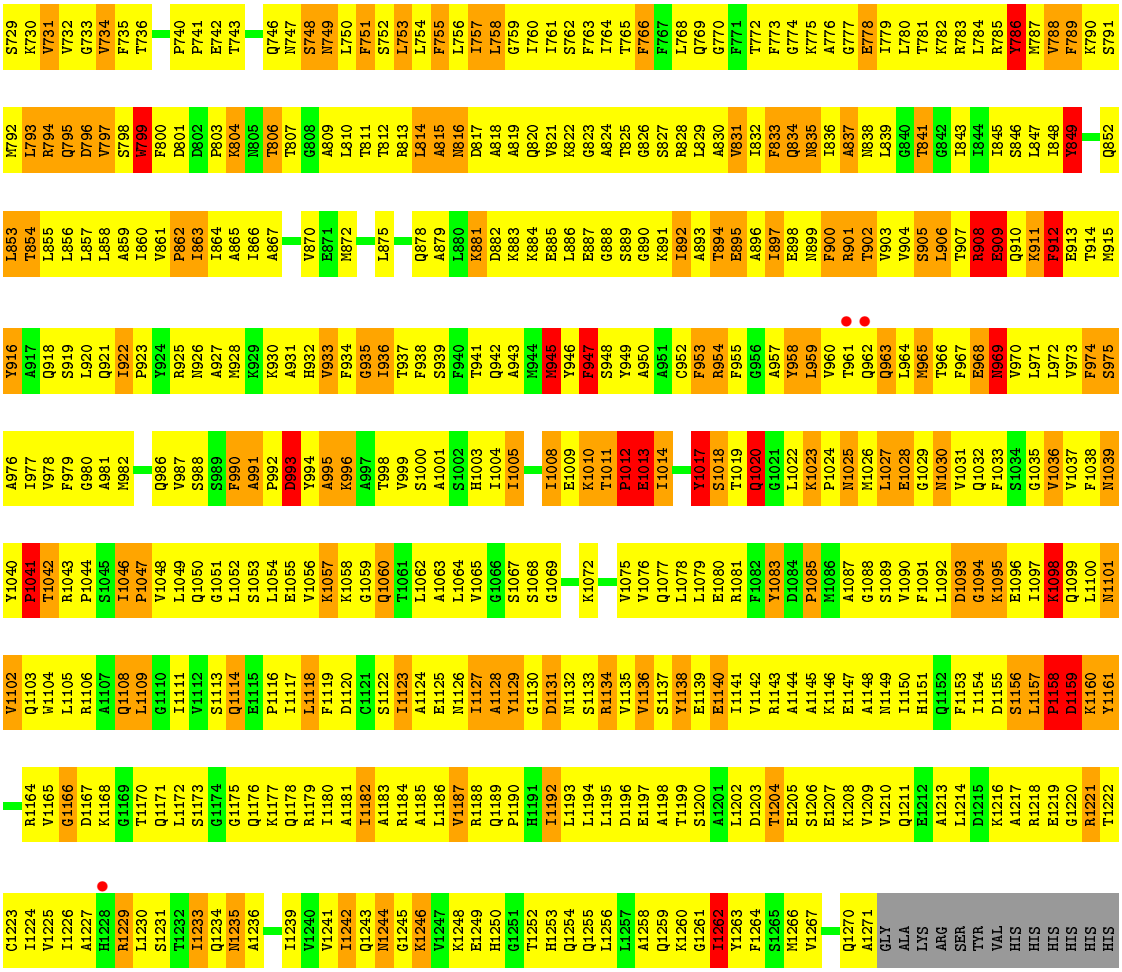
3 Residue-property plots (i)

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

- Molecule 1: Multidrug resistance protein 1a

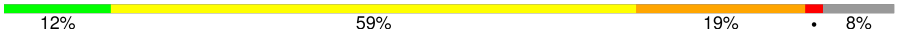
Chain A:

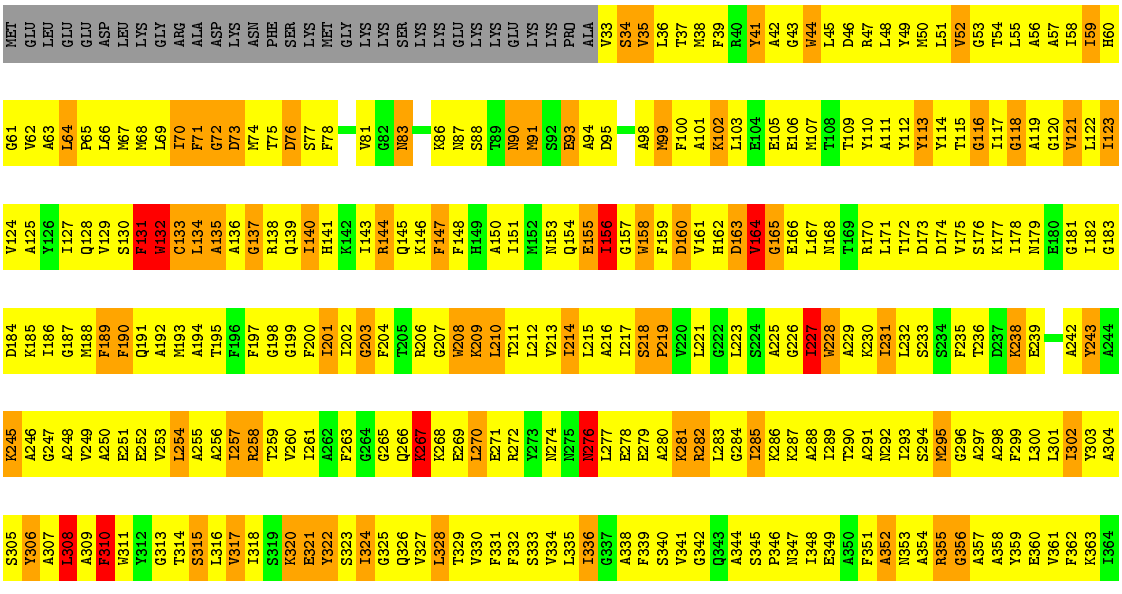


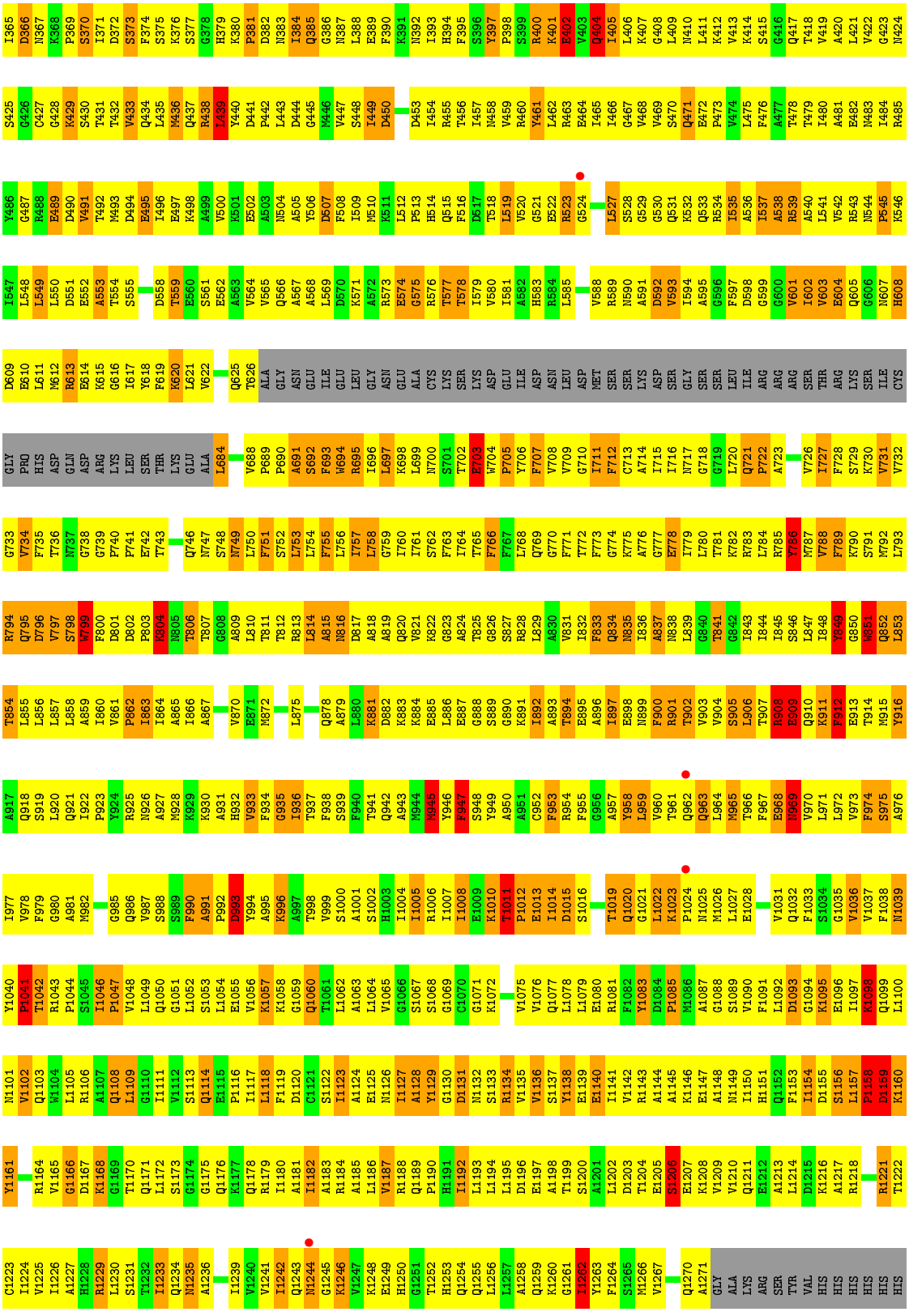


• Molecule 1: Multidrug resistance protein 1a

Chain B:






I365 D366 N367 K368 P369 S370 I371 D372 S373 F374 S375 K376 S377 G378 H379 K380 P381 D382 N383 I384 Q385 G386 N387 L388 E389 F390 K391 N392 I393 H394 F395 S396 Y397 P398 S399 R400 K401 E402 V403 Q404 I405 L406 K407 G408 L409 N410 L411 K412 V413 K414 S415 G416 Q417 T418 V419 A420 L421 V422 G423 N424
S425 G426 C427 G428 K429 D490 S430 T431 T432 V433 Q434 L435 M436 Q437 R438 L439 Y440 D441 P442 L443 D444 G445 M446 V447 S448 I449 D450 D453 I454 R455 T456 I457 N458 V459 R460 Y461 L462 R463 E464 I465 I466 G467 V468 V469 S470 Q471 E472 P473 V474 L475 F476 A477 T478 T479 I480 A481 E482 N483 I484 R485
Y486 G487 R488 E489 D490 V491 T492 M493 D494 E495 I496 E497 K498 A499 V500 K501 E502 A503 N504 A505 Y506 D507 F508 I509 M510 K511 L512 P513 H514 Q515 F516 D517 T518 L519 V520 G521 E522 R523 G524 L527 S528 G529 G530 Q531 K532 Q533 R534 I535 A536 I537 A538 R539 A540 L541 I542 R543 N544 P545 K546
I547 L548 L549 L550 D551 E552 A553 T554 S555 D558 T559 E560 S561 E562 A563 V564 V565 Q566 A567 A568 L569 D570 K571 A572 R573 E574 G575 R576 T577 T578 I579 V580 I581 A582 H583 R584 L585 V588 R589 N590 A591 D592 V593 I594 A595 G596 F597 D598 G599 G600 V601 I602 V603 E604 Q605 G606 N607 H608
D609 E610 L611 M612 R613 E614 K615 G616 I617 Y618 F619 K620 L621 V622 Q625 T626 ALA GLY ASN GLU ILE GLU LEU GLY ASN GLU ALA CYS LYS SER LYS ASP GLU ILE ASP ASN LEU ASP MET SER SER LYS ASP SER GLY SER SER LEU ILE ARG ARG ARG SER THR ARG LYS SER ILE CYS
GLY PRO HIS ASP GLN ASP ARG LYS LEU SER THR LYS GLU ALA L684 V688 P689 P690 A691 S692 F693 W694 R695 I696 L697 K698 L699 N700 S701 T702 E703 W704 P705 Y706 F707 V708 V709 G710 I711 F712 C713 A714 I715 I716 N717 G718 G719 L720 Q721 P722 A723 V726 I727 F728 S729 K730 V731 V732
G733 V734 F735 T736 N737 G738 G739 P740 P741 E742 T743 Q746 N747 S748 N749 L750 F751 S752 L753 L754 F755 L756 I757 L758 G759 I760 I761 S762 F763 I764 T765 F766 F767 L768 Q769 G770 F771 T772 F773 G774 K775 A776 G777 E778 I779 L780 T781 K782 R783 L784 R785 Y786 M787 V788 F789 K790 S791 M792 L793
R794 Q795 D796 V797 S798 W799 F800 D801 D802 P803 K804 N805 T806 T807 G808 A809 L810 T811 T812 R813 L814 A815 N816 D817 A818 A819 Q820 V821 K822 G823 A824 T825 G826 S827 R828 L829 A830 V831 I832 F833 Q834 N835 I836 A837 N838 L839 G840 T841 G842 I843 I844 I845 S846 Y849 G850 M851 Q852 L853
T854 L855 L856 L857 L858 A859 I860 V861 P862 I863 I864 A865 I866 A867 V870 E871 M872 L875 Q878 A879 L880 K881 D882 K883 K884 E885 L886 E887 G888 S889 G890 K891 I892 A893 T894 E895 A896 I897 E898 N899 F900 R901 T902 V903 V904 S905 L906 T907 R908 E909 Q910 K911 F912 E913 T914 M915 Y916
A917 Q918 S919 L920 Q921 I922 P923 Y924 R925 N926 A927 M928 K929 K930 A931 H932 V933 F934 G935 I936 T937 F938 S939 F940 T941 Q942 A943 M944 M945 Y946 F947 S948 Y949 A950 A951 C952 F953 R954 F955 G956 A957 Y958 L959 V960 T961 D962 Q963 L964 M965 T966 F967 E968 N969 V970 L971 V972 V973 F974 S975 A976
I977 V978 F979 G980 A981 M982 G985 Q986 V987 S988 S989 F990 A991 P992 D993 Y994 A995 K996 A997 T998 V999 S1000 A1001 S1002 H1003 I1004 I1005 R1006 I1007 I1008 E1009 K1010 I1011 P1012 E1013 I1014 D1015 S1016 T1019 Q1020 G1021 L1022 K1023 P1024 N1025 M1026 L1027 E1028 V1031 Q1032 F1033 S1034 G1035 V1036 V1037 F1038 N1039
Y1040 P1041 T1042 R1043 P1044 S1045 I1046 P1047 V1048 L1049 Q1050 G1051 L1052 S1053 L1054 E1055 V1056 K1057 K1058 G1059 Q1060 T1061 L1062 A1063 L1064 V1065 G1066 S1067 S1068 G1069 C1070 G1071 K1072 V1075 V1076 Q1077 L1078 L1079 E1080 R1081 F1082 Y1083 D1084 P1085 M1086 A1087 G1088 S1089 V1090 F1091 L1092 D1093 G1094 K1095 E1096 I1097 K1098 Q1099 L1100
N1101 V1102 Q1103 W1104 L1105 R1106 A1107 Q1108 L1109 G1110 I1111 V1112 S1113 Q1114 E1115 P1116 I1117 L1118 F1119 D1120 C1121 S1122 I1123 A1124 E1125 N1126 I1127 A1128 Y1129 G1130 D1131 N1132 S1133 R1134 V1135 V1136 S1137 Y1138 E1139 E1140 I1141 V1142 R1143 A1144 A1145 K1146 E1147 A1148 N1149 I1150 H1151 Q1152 F1153 I1154 D1155 S1156 L1157 P1158 D1159 K1160
Y1161 R1164 V1165 G1166 D1167 K1168 G1169 T1170 Q1171 L1172 S1173 G1174 G1175 Q1176 K1177 Q1178 R1179 I1180 A1181 I1182 A1183 R1184 A1185 L1186 V1187 R1188 Q1189 P1190 H1191 I1192 L1193 L1194 L1195 D1196 E1197 A1198 T1199 S1200 A1201 L1202 D1203 T1204 E1205 S1206 E1207 K1208 V1209 V1210 Q1211 E1212 A1213 L1214 D1215 K1216 A1217 R1218 R1221 T1222
C1223 I1224 V1225 I1226 A1227 H1228 R1229 L1230 S1231 T1232 I1233 Q1234 N1235 A1236 I1239 V1240 V1241 I1242 Q1243 N1244 G1245 K1246 V1247 K1248 E1249 H1250 G1251 T1252 H1253 Q1254 Q1255 L1256 L1257 A1258 Q1259 K1260 G1261 I1262 Y1263 F1264 S1265 N1266 V1267 Q1270 A1271 GLY ALA LYS ARG SER TYR VAL HIS HIS HIS HIS HIS

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	97.74Å 114.98Å 375.81Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	19.95 – 4.35 19.95 – 4.35	Depositor EDS
% Data completeness (in resolution range)	93.3 (19.95-4.35) 93.2 (19.95-4.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	4.03 (at 4.36Å)	Xtriage
Refinement program	CNS 1.2	Depositor
R, R_{free}	0.308 , 0.356 0.312 , 0.358	Depositor DCC
R_{free} test set	2642 reflections (9.97%)	DCC
Wilson B-factor (Å^2)	195.7	Xtriage
Anisotropy	0.362	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.16 , 39.2	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Outliers	0 of 28291 reflections	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	18448	wwPDB-VP
Average B, all atoms (Å^2)	182.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.34% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 2J8

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	0.40	0/9339	0.72	12/12626 (0.1%)
1	B	0.39	0/9339	0.71	14/12626 (0.1%)
All	All	0.40	0/18678	0.72	26/25252 (0.1%)

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

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

There are no bond length outliers.

All (26) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	370	SER	N-CA-C	10.10	138.27	111.00
1	B	1159	ASP	N-CA-C	-8.41	88.29	111.00
1	A	374	PHE	N-CA-C	8.32	133.47	111.00
1	A	450	ASP	N-CA-C	-8.05	89.26	111.00
1	A	1098	LYS	N-CA-C	-7.76	90.04	111.00
1	A	1159	ASP	N-CA-C	-7.42	90.98	111.00
1	B	165	GLY	N-CA-C	-6.93	95.76	113.10
1	A	267	LYS	N-CA-C	6.71	129.13	111.00
1	A	165	GLY	N-CA-C	-6.52	96.79	113.10
1	B	1098	LYS	N-CA-C	-6.25	94.14	111.00
1	A	1017	TYR	N-CA-C	6.13	127.55	111.00
1	A	575	GLY	N-CA-C	-6.05	97.97	113.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	64	LEU	C-N-CD	6.02	141.04	128.40
1	B	267	LYS	N-CA-C	5.97	127.12	111.00
1	A	64	LEU	C-N-CD	5.96	140.92	128.40
1	A	164	VAL	N-CA-C	5.91	126.95	111.00
1	B	1206	SER	CB-CA-C	5.85	121.21	110.10
1	B	450	ASP	N-CA-C	-5.72	95.56	111.00
1	A	552	GLU	CB-CA-C	-5.70	98.99	110.40
1	A	164	VAL	CB-CA-C	-5.59	100.77	111.40
1	B	575	GLY	N-CA-C	-5.56	99.21	113.10
1	B	370	SER	CB-CA-C	-5.40	99.84	110.10
1	B	852	GLN	N-CA-C	-5.35	96.55	111.00
1	B	851	TRP	CB-CA-C	-5.17	100.06	110.40
1	B	164	VAL	N-CA-C	5.07	124.68	111.00
1	B	804	LYS	N-CA-C	-5.03	97.43	111.00

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	916	TYR	Sidechain
1	B	916	TYR	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	9171	0	9344	1807	0
1	B	9171	0	9344	1791	0
2	A	53	0	36	5	0
2	B	53	0	36	20	0
All	All	18448	0	18760	3588	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 96.

All (3588) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:718:GLY:O	1:B:722:PRO:HD2	1.44	1.17
1:A:718:GLY:O	1:A:722:PRO:HD2	1.43	1.15
1:B:858:LEU:O	1:B:862:PRO:HD2	1.47	1.15
1:A:195:THR:HB	1:A:340:SER:HB2	1.27	1.14
1:B:35:VAL:HG23	1:B:36:LEU:H	1.13	1.11
1:A:858:LEU:O	1:A:862:PRO:HD2	1.50	1.09
1:B:195:THR:HB	1:B:340:SER:HB2	1.30	1.09
1:A:35:VAL:HG23	1:A:36:LEU:H	1.14	1.08
1:B:1011:THR:H	1:B:1012:PRO:HD2	1.16	1.07
1:B:711:ILE:HD11	1:B:832:ILE:HG21	1.37	1.06
1:B:691:ALA:HA	1:B:1002:SER:OG	1.55	1.06
1:A:523:ARG:HD3	1:A:524:GLY:H	1.20	1.05
1:A:711:ILE:HD11	1:A:832:ILE:HG21	1.39	1.05
1:B:61:GLY:O	1:B:65:PRO:HD2	1.56	1.04
1:B:851:TRP:HA	1:B:854:THR:HB	1.38	1.04
1:A:61:GLY:O	1:A:65:PRO:HD2	1.56	1.04
1:A:387:ASN:HD22	1:A:414:LYS:HA	1.21	1.04
1:B:1063:ALA:HB3	1:B:1239:ILE:HA	1.37	1.04
1:B:387:ASN:HD22	1:B:414:LYS:HA	1.23	1.03
1:A:826:GLY:HA2	1:A:829:LEU:HD12	1.39	1.03
1:B:523:ARG:HD3	1:B:524:GLY:H	1.19	1.03
1:A:253:VAL:HB	1:A:1119:PHE:HE1	1.17	1.03
1:A:853:LEU:HD22	1:A:853:LEU:H	1.20	1.03
1:B:1039:ASN:HB2	1:B:1047:PRO:HA	1.39	1.03
1:B:766:PHE:HA	1:B:769:GLN:HE21	1.24	1.02
1:A:1039:ASN:HB2	1:A:1047:PRO:HA	1.38	1.01
1:A:1018:SER:O	1:A:1101:ASN:HB2	1.59	1.01
1:B:959:LEU:HD22	1:B:964:LEU:HB2	1.41	1.01
1:A:1144:ALA:HA	1:A:1186:LEU:HD11	1.43	1.01
1:A:1063:ALA:HB3	1:A:1239:ILE:HA	1.39	1.00
1:B:1090:VAL:HG13	1:B:1097:ILE:HB	1.40	1.00
1:A:384:ILE:HG22	1:A:385:GLN:H	1.24	1.00
1:B:826:GLY:HA2	1:B:829:LEU:HD12	1.40	0.99
1:A:766:PHE:HA	1:A:769:GLN:HE21	1.25	0.99
1:A:1090:VAL:HG13	1:A:1097:ILE:HB	1.40	0.99
1:A:158:TRP:HE1	1:A:900:PHE:CB	1.75	0.99
1:B:897:ILE:HG13	1:B:898:GLU:H	1.26	0.99
1:B:1144:ALA:HA	1:B:1186:LEU:HD11	1.42	0.98
1:B:1036:VAL:HB	1:B:1052:LEU:HB3	1.45	0.98
1:A:1218:ARG:HH22	1:A:1235:ASN:HD22	1.10	0.98
1:A:429:LYS:HD3	1:A:429:LYS:H	1.27	0.97
1:A:1022:LEU:HG	1:A:1104:TRP:NE1	1.80	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1218:ARG:HH22	1:B:1235:ASN:HD22	1.10	0.96
1:A:373:SER:O	1:A:374:PHE:HB2	1.62	0.96
1:A:1036:VAL:HB	1:A:1052:LEU:HB3	1.44	0.95
1:B:339:PHE:CE2	2:B:6003:2J8:SE3	2.69	0.95
1:A:394:HIS:HA	1:A:406:LEU:O	1.66	0.95
1:B:978:VAL:HG21	2:B:6003:2J8:H30	1.46	0.95
1:B:1011:THR:H	1:B:1012:PRO:CD	1.79	0.95
1:A:996:LYS:H	1:A:996:LYS:HD3	1.30	0.95
1:B:339:PHE:CZ	2:B:6003:2J8:SE3	2.69	0.94
1:A:897:ILE:HG13	1:A:898:GLU:H	1.29	0.94
1:B:523:ARG:CD	1:B:524:GLY:H	1.79	0.94
1:B:919:SER:O	1:B:923:PRO:HD2	1.67	0.94
1:A:616:GLY:O	1:A:620:LYS:HB2	1.66	0.94
1:B:996:LYS:H	1:B:996:LYS:HD3	1.30	0.94
1:A:1013:GLU:O	1:A:1014:ILE:HG23	1.68	0.93
1:B:394:HIS:HA	1:B:406:LEU:O	1.69	0.93
1:A:798:SER:OG	1:A:1041:PRO:HG2	1.69	0.93
1:B:318:ILE:HD11	1:B:325:GLY:N	1.83	0.92
1:A:158:TRP:HE1	1:A:900:PHE:HB3	1.31	0.92
1:B:797:VAL:HG12	1:B:798:SER:H	1.35	0.92
1:A:797:VAL:HG21	1:A:1013:GLU:HG3	1.49	0.92
1:A:800:PHE:O	1:A:803:PRO:HD3	1.70	0.92
1:B:795:GLN:HA	1:B:1012:PRO:HG3	1.52	0.92
1:B:1216:LYS:HE2	1:B:1216:LYS:HA	1.52	0.92
1:B:118:GLY:O	1:B:121:VAL:HG22	1.70	0.92
1:A:686:GLU:HG2	1:A:813:ARG:HH22	1.33	0.92
1:B:616:GLY:O	1:B:620:LYS:HB2	1.68	0.92
1:A:919:SER:O	1:A:923:PRO:HD2	1.70	0.91
1:A:964:LEU:HD13	1:A:965:MET:N	1.84	0.91
1:B:484:ILE:HG21	1:B:496:ILE:HD12	1.51	0.91
1:A:118:GLY:O	1:A:121:VAL:HG22	1.70	0.91
1:A:484:ILE:HG21	1:A:496:ILE:HD12	1.51	0.91
1:A:253:VAL:HB	1:A:1119:PHE:CE1	2.06	0.91
1:B:964:LEU:HD13	1:B:965:MET:N	1.85	0.91
1:B:690:PRO:HG2	1:B:1006:ARG:NH2	1.85	0.91
1:A:523:ARG:CD	1:A:524:GLY:H	1.83	0.91
1:B:202:ILE:HD12	1:B:203:GLY:N	1.86	0.91
1:B:318:ILE:HD13	1:B:327:VAL:HG13	1.54	0.90
1:B:892:ILE:HB	1:B:916:TYR:HE1	1.37	0.90
1:B:155:GLU:O	1:B:157:GLY:N	2.03	0.90
1:A:155:GLU:O	1:A:157:GLY:N	2.05	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1202:LEU:HD21	1:B:1206:SER:HB3	1.54	0.90
1:B:1091:PHE:HE1	1:B:1096:GLU:HG2	1.37	0.90
1:B:318:ILE:HD11	1:B:324:ILE:HG12	1.54	0.89
1:B:202:ILE:HD12	1:B:203:GLY:H	1.36	0.89
1:A:892:ILE:HB	1:A:916:TYR:HE1	1.37	0.89
1:A:278:GLU:O	1:A:282:ARG:HG2	1.71	0.89
1:B:816:ASN:O	1:B:820:GLN:HG2	1.71	0.89
1:A:270:LEU:HD23	1:A:270:LEU:H	1.36	0.89
1:A:816:ASN:O	1:A:820:GLN:HG2	1.72	0.88
1:B:270:LEU:HD23	1:B:270:LEU:H	1.35	0.88
1:B:278:GLU:O	1:B:282:ARG:HG2	1.73	0.88
1:A:72:GLY:HA2	1:A:326:GLN:NE2	1.88	0.88
1:A:292:ASN:HA	1:A:295:MET:HB2	1.55	0.88
1:A:267:LYS:N	1:A:270:LEU:HD21	1.89	0.88
1:B:207:GLY:HA3	1:B:211:THR:HB	1.54	0.88
1:B:384:ILE:HG22	1:B:385:GLN:H	1.36	0.88
1:B:889:SER:HA	1:B:892:ILE:HD11	1.56	0.88
1:A:318:ILE:HD11	1:A:325:GLY:H	1.39	0.87
1:B:386:GLY:HA3	1:B:450:ASP:HA	1.54	0.87
1:A:34:SER:O	1:A:38:MET:HB2	1.74	0.87
1:A:478:THR:HG22	1:A:479:THR:H	1.39	0.87
1:A:1216:LYS:HA	1:A:1216:LYS:HE2	1.54	0.87
1:B:64:LEU:O	1:B:67:MET:HB3	1.74	0.87
1:A:122:LEU:HD12	1:A:939:SER:HB2	1.56	0.87
1:A:1179:ARG:HH21	1:A:1209:VAL:HG11	1.39	0.87
1:B:209:LYS:O	1:B:212:LEU:HB3	1.72	0.87
1:B:72:GLY:HA2	1:B:326:GLN:NE2	1.90	0.87
1:A:67:MET:HE2	1:A:117:ILE:HG21	1.57	0.87
1:A:1261:GLY:H	1:A:1264:PHE:HB3	1.38	0.87
1:A:202:ILE:HD12	1:A:203:GLY:H	1.39	0.87
1:A:603:VAL:HG23	1:A:604:GLU:H	1.40	0.87
1:B:267:LYS:N	1:B:270:LEU:HD21	1.89	0.87
1:A:202:ILE:HD12	1:A:203:GLY:N	1.88	0.87
1:A:360:GLU:HA	1:A:363:LYS:HE2	1.56	0.87
1:A:1091:PHE:HE1	1:A:1096:GLU:HG2	1.37	0.86
1:B:34:SER:O	1:B:38:MET:HB2	1.74	0.86
1:B:379:HIS:O	1:B:381:PRO:HD3	1.75	0.86
1:B:1179:ARG:HH21	1:B:1209:VAL:HG11	1.39	0.86
1:B:1128:ALA:HB2	1:B:1141:ILE:HG21	1.57	0.86
1:B:1261:GLY:H	1:B:1264:PHE:HB3	1.38	0.86
1:B:603:VAL:HG23	1:B:604:GLU:H	1.39	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1020:GLN:HG2	1:B:1021:GLY:H	1.41	0.86
1:B:964:LEU:HD13	1:B:965:MET:H	1.39	0.86
1:A:1202:LEU:HG	1:A:1203:ASP:H	1.41	0.86
1:B:379:HIS:HB3	1:B:457:ILE:HA	1.58	0.86
1:A:1128:ALA:HB2	1:A:1141:ILE:HG21	1.58	0.86
1:B:67:MET:HE2	1:B:117:ILE:HG21	1.58	0.86
1:B:853:LEU:H	1:B:853:LEU:HD22	1.39	0.85
1:A:49:TYR:OH	1:A:130:SER:HB2	1.76	0.85
1:A:1202:LEU:HD21	1:A:1206:SER:HB3	1.59	0.85
1:B:49:TYR:OH	1:B:130:SER:HB2	1.76	0.85
1:A:697:LEU:O	1:A:700:ASN:HB3	1.76	0.85
1:A:64:LEU:O	1:A:67:MET:HB3	1.76	0.85
1:B:907:THR:C	1:B:908:ARG:HE	1.79	0.85
1:B:742:GLU:O	1:B:746:GLN:HG2	1.77	0.85
1:A:386:GLY:HA3	1:A:450:ASP:HA	1.59	0.84
1:B:210:LEU:HG	1:B:322:TYR:CD2	2.12	0.84
1:A:889:SER:HA	1:A:892:ILE:HD11	1.58	0.84
1:B:800:PHE:O	1:B:803:PRO:HD3	1.78	0.84
1:A:907:THR:C	1:A:908:ARG:HE	1.80	0.84
1:B:974:PHE:HB2	2:B:6004:2J8:SE2	2.26	0.84
1:A:35:VAL:HG23	1:A:36:LEU:N	1.93	0.84
1:B:292:ASN:HA	1:B:295:MET:HB2	1.58	0.84
1:A:791:SER:HA	1:A:1010:LYS:HE2	1.59	0.84
1:A:694:TRP:O	1:A:697:LEU:HG	1.77	0.84
1:B:478:THR:HG22	1:B:479:THR:H	1.41	0.84
1:B:360:GLU:HA	1:B:363:LYS:HE2	1.58	0.84
1:B:986:GLN:HE22	2:B:6003:2J8:H31	1.41	0.83
1:A:964:LEU:HD13	1:A:965:MET:H	1.37	0.83
1:B:697:LEU:O	1:B:700:ASN:HB3	1.78	0.83
1:B:267:LYS:HB3	1:B:790:LYS:HE3	1.59	0.83
1:A:136:ALA:HB2	1:A:182:ILE:HB	1.61	0.83
1:B:1197:GLU:HG2	1:B:1227:ALA:HA	1.60	0.83
1:B:324:ILE:HG13	1:B:326:GLN:HB3	1.61	0.83
1:B:811:THR:O	1:B:814:LEU:HB2	1.79	0.83
1:B:35:VAL:HG23	1:B:36:LEU:N	1.92	0.83
1:B:164:VAL:HG12	1:B:164:VAL:O	1.76	0.83
1:A:158:TRP:HA	1:A:162:HIS:HD2	1.42	0.83
1:A:689:PRO:HB2	1:A:690:PRO:HD3	1.61	0.83
1:B:552:GLU:O	1:B:554:THR:N	2.11	0.83
1:B:374:PHE:HE1	1:B:376:LYS:HB2	1.43	0.83
1:A:801:ASP:HB3	1:A:1083:TYR:OH	1.78	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1202:LEU:HG	1:B:1203:ASP:H	1.42	0.83
1:A:204:PHE:HA	1:A:211:THR:HG21	1.58	0.82
1:A:742:GLU:O	1:A:746:GLN:HG2	1.77	0.82
1:A:1120:ASP:HB3	1:A:1168:LYS:HA	1.61	0.82
1:A:969:ASN:HA	1:A:972:LEU:HD13	1.62	0.82
1:B:942:GLN:O	1:B:945:MET:HB3	1.80	0.82
1:A:1197:GLU:HG2	1:A:1227:ALA:HA	1.60	0.82
1:B:226:GLY:O	1:B:230:LYS:HG2	1.80	0.82
1:B:128:GLN:O	1:B:131:PHE:HB3	1.80	0.82
1:A:859:ALA:O	1:A:863:ILE:HG13	1.80	0.81
1:A:713:CYS:CB	1:A:768:LEU:HD11	2.11	0.81
1:A:853:LEU:HG	1:A:973:VAL:HG22	1.62	0.81
1:B:136:ALA:HB2	1:B:182:ILE:HB	1.62	0.81
1:A:812:THR:HG22	1:A:816:ASN:HD22	1.44	0.81
1:B:401:LYS:HD2	1:B:401:LYS:H	1.45	0.81
1:A:401:LYS:HD2	1:A:401:LYS:H	1.45	0.81
1:A:762:SER:HA	1:A:765:THR:HG22	1.60	0.81
1:B:286:LYS:HA	1:B:289:ILE:HB	1.62	0.81
1:A:226:GLY:O	1:A:230:LYS:HG2	1.80	0.81
1:B:766:PHE:O	1:B:769:GLN:HG2	1.80	0.81
1:B:713:CYS:CB	1:B:768:LEU:HD11	2.10	0.81
1:A:39:PHE:CE2	1:A:355:ARG:HA	2.16	0.81
1:B:324:ILE:HG13	1:B:326:GLN:CB	2.10	0.81
1:B:762:SER:HA	1:B:765:THR:HG22	1.61	0.81
1:A:185:LYS:HZ2	1:A:186:ILE:N	1.79	0.81
1:B:158:TRP:HA	1:B:162:HIS:HD2	1.45	0.81
1:A:289:ILE:O	1:A:293:ILE:HG12	1.80	0.81
1:A:942:GLN:O	1:A:945:MET:HB3	1.81	0.81
1:B:35:VAL:HG12	1:B:359:TYR:CE2	2.15	0.81
1:A:183:GLY:O	1:A:186:ILE:HG13	1.81	0.81
1:B:429:LYS:HD3	1:B:429:LYS:H	1.45	0.81
1:B:694:TRP:O	1:B:697:LEU:HG	1.80	0.81
1:B:982:MET:HG3	2:B:6003:2J8:H33	1.63	0.80
1:A:212:LEU:HA	1:A:215:LEU:HG	1.63	0.80
1:A:1181:ALA:O	1:A:1184:ARG:HB3	1.81	0.80
1:A:110:TYR:HA	1:A:113:TYR:HD2	1.46	0.80
1:B:183:GLY:O	1:B:186:ILE:HG13	1.80	0.80
1:A:363:LYS:O	1:A:367:ASN:HB3	1.81	0.80
1:B:1120:ASP:HB3	1:B:1168:LYS:HA	1.63	0.80
1:B:61:GLY:O	1:B:65:PRO:CD	2.29	0.80
1:A:168:ASN:HB3	1:A:897:ILE:CD1	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:527:LEU:HD23	1:A:527:LEU:H	1.46	0.80
1:B:318:ILE:HD11	1:B:325:GLY:H	1.45	0.80
1:B:363:LYS:O	1:B:367:ASN:HB3	1.82	0.80
1:B:39:PHE:CE2	1:B:355:ARG:HA	2.17	0.80
1:A:286:LYS:HA	1:A:289:ILE:HB	1.62	0.80
1:A:857:LEU:HD11	1:A:977:ILE:HG12	1.64	0.80
1:A:1092:LEU:HB3	1:A:1097:ILE:HD11	1.64	0.80
1:A:35:VAL:HG12	1:A:359:TYR:CE2	2.15	0.79
1:A:291:ALA:HA	1:A:294:SER:HB2	1.64	0.79
1:A:61:GLY:O	1:A:65:PRO:CD	2.30	0.79
1:A:766:PHE:O	1:A:769:GLN:HG2	1.82	0.79
1:A:958:TYR:O	1:A:966:THR:HG21	1.83	0.79
1:B:812:THR:HG22	1:B:816:ASN:HD22	1.44	0.79
1:B:100:PHE:HB2	1:B:961:THR:HG23	1.64	0.79
1:B:889:SER:O	1:B:892:ILE:HG13	1.80	0.79
1:B:257:ILE:O	1:B:260:VAL:HB	1.83	0.79
1:A:969:ASN:HD22	1:A:970:VAL:N	1.79	0.79
1:A:207:GLY:HA3	1:A:211:THR:H	1.48	0.79
1:A:834:GLN:HB3	1:A:986:GLN:HG2	1.65	0.79
1:B:820:GLN:HG3	1:B:1000:SER:CB	2.12	0.79
1:B:969:ASN:HA	1:B:972:LEU:HD13	1.63	0.79
1:A:140:ILE:HG13	1:A:179:ASN:HD22	1.46	0.79
1:A:257:ILE:O	1:A:260:VAL:HB	1.83	0.79
1:B:339:PHE:CE1	2:B:6003:2J8:SE3	2.86	0.79
1:B:1181:ALA:O	1:B:1184:ARG:HB3	1.83	0.79
1:B:289:ILE:O	1:B:293:ILE:HG12	1.81	0.79
1:B:339:PHE:CD2	2:B:6003:2J8:SE3	2.86	0.79
1:B:1092:LEU:HB3	1:B:1097:ILE:HD11	1.64	0.79
1:A:756:LEU:HD12	1:A:757:ILE:N	1.98	0.79
1:B:110:TYR:HA	1:B:113:TYR:HD2	1.47	0.79
1:A:512:LEU:HD12	1:A:513:PRO:HD2	1.65	0.79
1:B:102:LYS:HE3	1:B:102:LYS:HA	1.65	0.78
1:B:727:ILE:HG21	1:B:754:LEU:HG	1.64	0.78
1:B:834:GLN:HB3	1:B:986:GLN:HG2	1.66	0.78
1:A:852:GLN:HB2	1:A:853:LEU:HD22	1.65	0.78
1:A:1154:ILE:HD13	1:A:1161:TYR:CE2	2.19	0.78
1:A:727:ILE:HG21	1:A:754:LEU:HG	1.63	0.78
1:A:770:GLY:HA2	1:A:773:PHE:CZ	2.19	0.78
1:A:811:THR:O	1:A:814:LEU:HB2	1.84	0.78
1:A:992:PRO:HB2	1:A:996:LYS:NZ	1.98	0.78
1:A:278:GLU:C	1:A:282:ARG:HG2	2.03	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:GLU:C	1:B:282:ARG:HG2	2.03	0.78
1:B:239:GLU:HG3	1:B:288:ALA:CB	2.13	0.78
1:A:797:VAL:HG12	1:A:798:SER:H	1.48	0.78
1:A:102:LYS:HA	1:A:102:LYS:HE3	1.65	0.78
1:A:574:GLU:HG3	1:A:574:GLU:O	1.84	0.78
1:B:314:THR:HG23	1:B:327:VAL:HG21	1.66	0.78
1:B:756:LEU:HD12	1:B:757:ILE:N	1.99	0.78
1:A:467:GLY:HA3	1:A:545:PRO:HG3	1.64	0.78
1:B:467:GLY:HA3	1:B:545:PRO:HG3	1.66	0.78
1:B:770:GLY:HA2	1:B:773:PHE:CZ	2.19	0.78
1:A:47:ARG:O	1:A:50:MET:HB3	1.83	0.78
1:A:1145:ALA:CB	1:A:1154:ILE:HD12	2.14	0.78
1:B:263:PHE:HE1	1:B:1129:TYR:HB3	1.49	0.78
1:B:375:SER:C	1:B:376:LYS:HD2	2.04	0.78
1:B:117:ILE:O	1:B:121:VAL:HG13	1.83	0.78
1:B:969:ASN:HD22	1:B:970:VAL:N	1.80	0.78
1:B:992:PRO:HB2	1:B:996:LYS:NZ	1.98	0.78
1:A:128:GLN:O	1:A:131:PHE:HB3	1.84	0.78
1:A:892:ILE:HB	1:A:916:TYR:CE1	2.19	0.78
1:A:239:GLU:HG3	1:A:288:ALA:CB	2.14	0.78
1:B:1183:ALA:O	1:B:1187:VAL:HB	1.84	0.78
1:B:1010:LYS:HD2	1:B:1010:LYS:H	1.49	0.77
1:B:140:ILE:HG13	1:B:179:ASN:HD22	1.46	0.77
1:B:512:LEU:HD12	1:B:513:PRO:HD2	1.65	0.77
1:B:892:ILE:HB	1:B:916:TYR:CE1	2.18	0.77
1:B:210:LEU:HD23	1:B:317:VAL:HG11	1.65	0.77
1:A:889:SER:O	1:A:892:ILE:HG13	1.83	0.77
1:B:527:LEU:HD23	1:B:527:LEU:H	1.47	0.77
1:B:291:ALA:HA	1:B:294:SER:HB2	1.65	0.77
1:B:303:TYR:O	1:B:306:TYR:HB3	1.84	0.77
1:A:303:TYR:O	1:A:306:TYR:HB3	1.84	0.77
1:B:449:ILE:HD13	1:B:450:ASP:N	1.99	0.77
1:A:692:SER:OG	1:A:696:ILE:HG23	1.84	0.77
1:B:523:ARG:HD3	1:B:524:GLY:N	1.99	0.77
1:B:1120:ASP:HA	1:B:1165:VAL:CG2	2.15	0.77
1:B:1158:PRO:O	1:B:1159:ASP:HB2	1.85	0.77
1:A:573:ARG:HD2	1:A:578:THR:HG21	1.67	0.77
1:A:1120:ASP:HA	1:A:1165:VAL:CG2	2.14	0.77
1:B:185:LYS:HZ2	1:B:186:ILE:N	1.80	0.77
1:B:574:GLU:HG3	1:B:574:GLU:O	1.85	0.77
1:A:210:LEU:HD23	1:A:317:VAL:HG11	1.65	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1159:ASP:O	1:A:1160:LYS:HG3	1.84	0.77
1:A:385:GLN:HE21	1:A:386:GLY:H	1.33	0.77
1:B:1120:ASP:HA	1:B:1165:VAL:HG21	1.67	0.77
1:B:1023:LYS:HB3	1:B:1026:MET:HG2	1.65	0.77
1:B:693:PHE:H	1:B:693:PHE:HD2	1.31	0.77
1:B:713:CYS:HB3	1:B:768:LEU:HD11	1.67	0.76
1:A:1120:ASP:HA	1:A:1165:VAL:HG21	1.67	0.76
1:A:164:VAL:O	1:A:164:VAL:HG12	1.84	0.76
1:B:321:GLU:O	1:B:323:SER:N	2.17	0.76
1:A:117:ILE:O	1:A:121:VAL:HG13	1.85	0.76
1:B:1167:ASP:O	1:B:1168:LYS:HB2	1.85	0.76
1:A:361:VAL:O	1:A:365:ILE:HD12	1.85	0.76
1:A:820:GLN:HG3	1:A:1000:SER:CB	2.14	0.76
1:B:212:LEU:HA	1:B:215:LEU:HG	1.65	0.76
1:A:806:THR:O	1:A:810:LEU:HG	1.86	0.76
1:A:238:LYS:NZ	1:A:242:ALA:HB2	2.00	0.76
1:A:178:ILE:HG12	1:A:358:ALA:CB	2.14	0.76
1:A:1183:ALA:O	1:A:1187:VAL:HB	1.86	0.76
1:B:1010:LYS:O	1:B:1011:THR:HG23	1.85	0.76
1:B:306:TYR:O	1:B:310:PHE:HB2	1.86	0.76
1:A:713:CYS:HB3	1:A:768:LEU:HD11	1.68	0.76
1:B:731:VAL:HG22	1:B:750:LEU:HB3	1.68	0.76
1:B:178:ILE:HG12	1:B:358:ALA:CB	2.15	0.76
1:B:385:GLN:HE21	1:B:386:GLY:H	1.34	0.75
1:A:1039:ASN:CB	1:A:1047:PRO:HA	2.16	0.75
1:A:207:GLY:HA3	1:A:211:THR:HB	1.67	0.75
1:A:306:TYR:O	1:A:310:PHE:HB2	1.85	0.75
1:B:362:PHE:HA	1:B:365:ILE:HD12	1.68	0.75
1:A:50:MET:HG3	1:A:131:PHE:CZ	2.22	0.75
1:B:238:LYS:NZ	1:B:242:ALA:HB2	2.01	0.75
1:B:302:ILE:O	1:B:305:SER:HB3	1.85	0.75
1:B:859:ALA:O	1:B:863:ILE:HG13	1.85	0.75
1:A:158:TRP:NE1	1:A:900:PHE:CB	2.50	0.75
1:A:1179:ARG:NH2	1:A:1209:VAL:HG11	2.01	0.75
1:A:552:GLU:O	1:A:554:THR:N	2.20	0.75
1:B:272:ARG:O	1:B:276:ASN:HB2	1.87	0.75
1:A:324:ILE:HG13	1:A:326:GLN:CB	2.16	0.75
1:A:731:VAL:HG22	1:A:750:LEU:HB3	1.67	0.75
1:B:384:ILE:HG22	1:B:385:GLN:N	2.01	0.75
1:B:849:TYR:HB3	1:B:854:THR:OG1	1.87	0.75
1:A:467:GLY:CA	1:A:545:PRO:HG3	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:780:LEU:O	1:A:784:LEU:HD23	1.87	0.75
1:B:573:ARG:HD2	1:B:578:THR:HG21	1.67	0.75
1:B:970:VAL:O	1:B:973:VAL:HB	1.87	0.75
1:A:945:MET:SD	1:A:946:TYR:N	2.60	0.74
1:A:484:ILE:HG23	1:A:542:VAL:HG21	1.68	0.74
1:A:531:GLN:O	1:A:534:ARG:HB2	1.87	0.74
1:B:118:GLY:HA3	1:B:946:TYR:CE2	2.22	0.74
1:B:902:THR:C	1:B:904:VAL:N	2.39	0.74
1:B:1020:GLN:HG2	1:B:1021:GLY:N	2.00	0.74
1:A:519:LEU:H	1:A:519:LEU:HD13	1.52	0.74
1:B:47:ARG:O	1:B:50:MET:HB3	1.86	0.74
1:A:387:ASN:ND2	1:A:414:LYS:HA	2.01	0.74
1:A:927:ALA:HA	1:A:930:LYS:HE3	1.69	0.74
1:B:945:MET:SD	1:B:946:TYR:N	2.60	0.74
1:A:156:ILE:N	1:A:156:ILE:HD12	2.02	0.74
1:B:531:GLN:O	1:B:534:ARG:HB2	1.87	0.74
1:A:718:GLY:O	1:A:722:PRO:CD	2.31	0.74
1:A:695:ARG:O	1:A:699:LEU:HD23	1.87	0.74
1:A:589:ARG:O	1:A:591:ALA:N	2.17	0.74
1:B:704:TRP:CZ2	1:B:707:PHE:HB2	2.22	0.74
1:A:155:GLU:HB3	1:A:156:ILE:HD12	1.68	0.74
1:A:1167:ASP:O	1:A:1168:LYS:HB2	1.86	0.74
1:B:239:GLU:HB3	1:B:285:ILE:HG12	1.69	0.74
1:B:991:ALA:HB1	1:B:992:PRO:HD2	1.70	0.74
1:B:1122:SER:HA	1:B:1164:ARG:HA	1.69	0.74
1:A:307:ALA:CB	1:A:754:LEU:HD22	2.17	0.74
1:A:1081:ARG:NH2	1:A:1098:LYS:O	2.20	0.74
1:A:195:THR:CB	1:A:340:SER:HB2	2.15	0.74
1:A:902:THR:C	1:A:904:VAL:N	2.38	0.74
1:B:484:ILE:HG23	1:B:542:VAL:HG21	1.68	0.74
1:A:791:SER:N	1:A:794:ARG:HH21	1.86	0.74
1:B:780:LEU:O	1:B:784:LEU:HD23	1.88	0.73
1:A:523:ARG:HD3	1:A:524:GLY:N	2.00	0.73
1:A:302:ILE:O	1:A:305:SER:HB3	1.88	0.73
1:B:155:GLU:HB3	1:B:156:ILE:HD12	1.71	0.73
1:B:387:ASN:ND2	1:B:414:LYS:HA	2.03	0.73
1:A:588:VAL:O	1:A:591:ALA:HB2	1.88	0.73
1:B:50:MET:HG3	1:B:131:PHE:CZ	2.22	0.73
1:B:543:ARG:NH1	1:B:905:SER:HB3	2.02	0.73
1:B:215:LEU:O	1:B:219:PRO:HD2	1.88	0.73
1:A:1091:PHE:CE1	1:A:1096:GLU:HG2	2.22	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1179:ARG:NH2	1:B:1209:VAL:HG11	2.02	0.73
1:A:902:THR:C	1:A:904:VAL:H	1.90	0.73
1:A:225:ALA:HA	1:A:302:ILE:HD12	1.70	0.73
1:B:695:ARG:O	1:B:699:LEU:HD23	1.88	0.73
1:A:35:VAL:CG2	1:A:36:LEU:H	1.98	0.73
1:A:420:ALA:C	1:A:421:LEU:HD12	2.09	0.73
1:A:704:TRP:CZ2	1:A:707:PHE:HB2	2.23	0.73
1:A:960:VAL:HG12	1:A:966:THR:OG1	1.87	0.73
1:B:878:GLN:O	1:B:882:ASP:HB2	1.88	0.73
1:B:786:TYR:HE2	1:B:790:LYS:HZ3	1.34	0.73
1:A:834:GLN:HG3	1:A:835:ASN:N	2.04	0.73
1:B:467:GLY:CA	1:B:545:PRO:HG3	2.19	0.73
1:B:163:ASP:HB2	1:B:166:GLU:HB3	1.69	0.73
1:B:233:SER:O	1:B:236:THR:HB	1.89	0.73
1:B:791:SER:O	1:B:795:GLN:HB2	1.89	0.72
1:B:846:SER:O	1:B:849:TYR:HB2	1.89	0.72
1:B:927:ALA:HA	1:B:930:LYS:HE3	1.70	0.72
1:A:158:TRP:NE1	1:A:900:PHE:HB2	2.04	0.72
1:A:1022:LEU:HG	1:A:1104:TRP:CE2	2.23	0.72
1:A:1037:VAL:HG12	1:A:1051:GLY:H	1.53	0.72
1:B:419:VAL:HG23	1:B:593:VAL:HG13	1.71	0.72
1:A:611:LEU:HD23	1:A:618:TYR:HB2	1.71	0.72
1:A:272:ARG:O	1:A:276:ASN:HB2	1.88	0.72
1:B:1076:VAL:HG13	1:B:1194:LEU:HD13	1.70	0.72
1:A:254:LEU:N	1:A:254:LEU:HD22	2.04	0.72
1:A:991:ALA:HB1	1:A:992:PRO:HD2	1.69	0.72
1:B:254:LEU:HD22	1:B:254:LEU:N	2.04	0.72
1:B:213:VAL:O	1:B:217:ILE:HG12	1.89	0.72
1:B:484:ILE:CG2	1:B:496:ILE:HD12	2.19	0.72
1:A:233:SER:O	1:A:236:THR:HB	1.89	0.72
1:A:1037:VAL:HG21	1:A:1087:ALA:HB3	1.71	0.72
1:A:1076:VAL:HG13	1:A:1194:LEU:HD13	1.70	0.72
1:B:797:VAL:O	1:B:799:TRP:N	2.23	0.72
1:A:168:ASN:HB3	1:A:897:ILE:HD13	1.69	0.72
1:A:550:LEU:HB2	1:A:580:VAL:HG23	1.72	0.72
1:B:740:PRO:HG2	1:B:741:PRO:HD3	1.70	0.72
1:A:913:GLU:HA	1:A:913:GLU:OE2	1.89	0.72
1:B:1091:PHE:CE1	1:B:1096:GLU:HG2	2.22	0.72
1:B:766:PHE:HA	1:B:769:GLN:NE2	2.04	0.72
1:B:156:ILE:HD12	1:B:156:ILE:N	2.04	0.72
1:B:888:GLY:O	1:B:892:ILE:HG12	1.90	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1080:GLU:OE2	1:A:1109:LEU:HD12	1.90	0.72
1:B:1147:GLU:HB3	1:B:1186:LEU:HD22	1.71	0.72
1:B:1037:VAL:HG12	1:B:1051:GLY:H	1.54	0.72
1:B:519:LEU:HD13	1:B:519:LEU:H	1.52	0.72
1:B:589:ARG:O	1:B:591:ALA:N	2.20	0.72
1:A:970:VAL:O	1:A:973:VAL:HB	1.88	0.72
1:A:1012:PRO:O	1:A:1013:GLU:HB2	1.89	0.72
1:A:1150:ILE:O	1:A:1154:ILE:HG13	1.88	0.72
1:B:86:LYS:HG2	1:B:738:GLY:O	1.89	0.72
1:B:202:ILE:HG12	1:B:333:SER:OG	1.90	0.72
1:A:202:ILE:HG12	1:A:333:SER:OG	1.89	0.72
1:A:471:GLN:HA	1:A:553:ALA:HA	1.72	0.72
1:A:215:LEU:O	1:A:219:PRO:HD2	1.90	0.72
1:A:324:ILE:HG13	1:A:326:GLN:HB3	1.72	0.72
1:A:385:GLN:NE2	1:A:386:GLY:H	1.87	0.72
1:A:534:ARG:NH2	1:A:564:VAL:HG11	2.05	0.72
1:A:1040:TYR:O	1:A:1042:THR:HG22	1.89	0.72
1:A:711:ILE:O	1:A:715:ILE:HG12	1.90	0.72
1:B:225:ALA:HA	1:B:302:ILE:HD12	1.71	0.71
1:A:178:ILE:HG12	1:A:358:ALA:HB2	1.72	0.71
1:A:922:ILE:HB	1:A:923:PRO:HD3	1.71	0.71
1:B:1076:VAL:HG13	1:B:1194:LEU:HD22	1.72	0.71
1:B:588:VAL:O	1:B:591:ALA:HB2	1.90	0.71
1:A:318:ILE:HD11	1:A:325:GLY:N	2.05	0.71
1:B:453:ASP:HB3	1:B:456:THR:HG23	1.72	0.71
1:B:1037:VAL:HG21	1:B:1087:ALA:HB3	1.72	0.71
1:A:878:GLN:O	1:A:882:ASP:HB2	1.89	0.71
1:B:267:LYS:H	1:B:270:LEU:HD21	1.52	0.71
1:B:711:ILE:O	1:B:715:ILE:HG12	1.89	0.71
1:B:718:GLY:O	1:B:722:PRO:CD	2.32	0.71
1:B:806:THR:O	1:B:810:LEU:HG	1.90	0.71
1:A:846:SER:O	1:A:849:TYR:HB2	1.91	0.71
1:A:1014:ILE:HD13	1:A:1106:ARG:NH1	2.05	0.71
1:A:1014:ILE:HD13	1:A:1106:ARG:HH12	1.55	0.71
1:A:265:GLY:HA2	1:A:793:LEU:HD21	1.72	0.71
1:A:246:ALA:HB1	1:A:277:LEU:HB3	1.72	0.71
1:B:970:VAL:HG23	1:B:971:LEU:HD22	1.72	0.71
1:A:897:ILE:HG13	1:A:898:GLU:N	2.04	0.71
1:B:447:VAL:HG13	1:B:454:ILE:CG2	2.21	0.71
1:A:740:PRO:HG2	1:A:741:PRO:HD3	1.70	0.71
1:A:78:PHE:HZ	1:A:967:PHE:O	1.74	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:888:GLY:O	1:A:892:ILE:HG12	1.91	0.71
1:A:791:SER:O	1:A:795:GLN:HB2	1.90	0.71
1:A:1039:ASN:HB2	1:A:1047:PRO:CA	2.19	0.71
1:B:1037:VAL:CG2	1:B:1087:ALA:HB3	2.21	0.71
1:B:1260:LYS:HD2	1:B:1260:LYS:H	1.55	0.71
1:B:58:ILE:HG13	1:B:193:MET:HG3	1.73	0.71
1:A:59:ILE:HD11	1:A:124:VAL:HG11	1.73	0.71
1:B:534:ARG:NH2	1:B:564:VAL:HG11	2.05	0.71
1:A:1145:ALA:HB2	1:A:1154:ILE:HD12	1.71	0.71
1:B:1079:LEU:HD23	1:B:1194:LEU:HD11	1.73	0.71
1:A:453:ASP:HB3	1:A:456:THR:HG23	1.71	0.71
1:A:970:VAL:HG23	1:A:971:LEU:HD22	1.73	0.71
1:A:163:ASP:HB2	1:A:166:GLU:HB3	1.73	0.71
1:B:897:ILE:HG13	1:B:898:GLU:N	2.01	0.71
1:B:902:THR:C	1:B:904:VAL:H	1.91	0.71
1:B:246:ALA:HB1	1:B:277:LEU:HB3	1.71	0.71
1:A:429:LYS:HD3	1:A:429:LYS:N	2.05	0.71
1:A:900:PHE:C	1:A:902:THR:H	1.93	0.71
1:A:158:TRP:CZ2	1:A:900:PHE:HB2	2.26	0.71
1:B:386:GLY:CA	1:B:450:ASP:HA	2.21	0.71
1:B:429:LYS:N	1:B:429:LYS:HD3	2.06	0.71
1:B:550:LEU:HB2	1:B:580:VAL:HG23	1.72	0.71
1:B:1036:VAL:HG11	1:B:1052:LEU:HD23	1.73	0.71
1:A:213:VAL:O	1:A:217:ILE:HG12	1.91	0.71
1:B:35:VAL:CG2	1:B:36:LEU:H	1.97	0.71
1:A:419:VAL:HG23	1:A:593:VAL:HG13	1.71	0.71
1:A:484:ILE:CG2	1:A:496:ILE:HD12	2.19	0.71
1:B:1039:ASN:CB	1:B:1047:PRO:HA	2.16	0.71
1:A:68:MET:O	1:A:71:PHE:HB3	1.91	0.70
1:A:174:ASP:O	1:A:178:ILE:HG13	1.91	0.70
1:A:1037:VAL:CG2	1:A:1087:ALA:HB3	2.21	0.70
1:B:318:ILE:CD1	1:B:325:GLY:H	2.03	0.70
1:B:409:LEU:CD2	1:B:602:ILE:HB	2.21	0.70
1:A:35:VAL:CG2	1:A:355:ARG:HH21	2.05	0.70
1:B:611:LEU:HD23	1:B:618:TYR:HB2	1.72	0.70
1:B:791:SER:N	1:B:794:ARG:HH21	1.89	0.70
1:B:133:CYS:O	1:B:134:LEU:C	2.30	0.70
1:B:385:GLN:NE2	1:B:386:GLY:H	1.89	0.70
1:A:1019:THR:OG1	1:A:1101:ASN:HA	1.91	0.70
1:A:1036:VAL:HG11	1:A:1052:LEU:HD23	1.73	0.70
1:B:304:ALA:HB2	1:B:758:LEU:HD23	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:834:GLN:HG3	1:B:835:ASN:N	2.05	0.70
1:A:979:PHE:O	1:A:982:MET:HB3	1.91	0.70
1:A:1076:VAL:HG13	1:A:1194:LEU:HD22	1.72	0.70
1:B:607:ASN:HB3	1:B:610:GLU:OE2	1.92	0.70
1:A:834:GLN:HG3	1:A:835:ASN:H	1.56	0.70
1:A:811:THR:HA	1:A:814:LEU:HD23	1.73	0.70
1:B:1202:LEU:HD21	1:B:1206:SER:CB	2.20	0.70
1:B:1040:TYR:O	1:B:1042:THR:HG22	1.91	0.70
1:A:1122:SER:HA	1:A:1164:ARG:HA	1.72	0.70
1:A:449:ILE:HD13	1:A:450:ASP:N	2.06	0.70
1:B:900:PHE:C	1:B:902:THR:H	1.94	0.70
1:A:285:ILE:O	1:A:289:ILE:HG12	1.91	0.70
1:A:324:ILE:CG1	1:A:326:GLN:H	2.05	0.70
1:B:1080:GLU:OE2	1:B:1109:LEU:HD12	1.90	0.70
1:B:261:ILE:C	1:B:263:PHE:H	1.95	0.70
1:B:1036:VAL:CB	1:B:1052:LEU:HB3	2.22	0.70
1:B:374:PHE:HD1	1:B:375:SER:H	1.40	0.70
1:B:392:ASN:O	1:B:445:GLY:HA3	1.92	0.70
1:B:834:GLN:HG3	1:B:835:ASN:H	1.57	0.70
1:B:35:VAL:CG2	1:B:355:ARG:HH21	2.05	0.70
1:A:527:LEU:HD23	1:A:527:LEU:N	2.06	0.70
1:A:618:TYR:O	1:A:622:VAL:HG23	1.91	0.70
1:B:318:ILE:CD1	1:B:324:ILE:HG12	2.20	0.69
1:A:354:ALA:O	1:A:358:ALA:HB3	1.92	0.69
1:A:60:HIS:O	1:A:63:ALA:HB3	1.92	0.69
1:A:1147:GLU:HB3	1:A:1186:LEU:HD22	1.73	0.69
1:A:1178:GLN:O	1:A:1181:ALA:HB3	1.92	0.69
1:B:297:ALA:O	1:B:301:LEU:HB2	1.92	0.69
1:B:537:ILE:O	1:B:538:ALA:C	2.30	0.69
1:A:607:ASN:HB3	1:A:610:GLU:OE2	1.92	0.69
1:A:423:GLY:HA2	1:A:597:PHE:O	1.93	0.69
1:B:232:LEU:HB2	1:B:295:MET:SD	2.32	0.69
1:B:285:ILE:O	1:B:289:ILE:HG12	1.91	0.69
1:B:322:TYR:CZ	1:B:324:ILE:HD12	2.27	0.69
1:A:218:SER:HB2	1:A:219:PRO:CD	2.22	0.69
1:A:727:ILE:O	1:A:731:VAL:HG23	1.92	0.69
1:B:178:ILE:HG12	1:B:358:ALA:HB2	1.72	0.69
1:B:819:ALA:O	1:B:822:LYS:HB3	1.91	0.69
1:B:99:MET:HB3	1:B:960:VAL:O	1.92	0.69
1:B:409:LEU:HD13	1:B:410:ASN:N	2.08	0.69
1:B:913:GLU:HA	1:B:913:GLU:OE2	1.92	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:786:TYR:HE2	1:A:790:LYS:HZ3	1.41	0.69
1:B:207:GLY:HA3	1:B:211:THR:N	2.08	0.69
1:B:218:SER:HB2	1:B:219:PRO:CD	2.22	0.69
1:A:467:GLY:N	1:A:545:PRO:HG3	2.08	0.69
1:A:883:LYS:HA	1:A:886:LEU:HG	1.73	0.69
1:A:857:LEU:HD13	1:A:976:ALA:HB3	1.74	0.69
1:A:406:LEU:HD11	1:A:432:THR:CG2	2.23	0.69
1:A:58:ILE:HG13	1:A:193:MET:HG3	1.74	0.69
1:B:913:GLU:HA	1:B:916:TYR:HD2	1.58	0.69
1:A:138:ARG:NH2	1:B:515:GLN:HE21	1.91	0.69
1:A:204:PHE:CA	1:A:211:THR:HG21	2.21	0.69
1:B:354:ALA:O	1:B:358:ALA:HB3	1.93	0.69
1:A:125:ALA:O	1:A:129:VAL:HG23	1.93	0.69
1:A:447:VAL:HG13	1:A:454:ILE:CG2	2.22	0.69
1:A:232:LEU:HB2	1:A:295:MET:SD	2.32	0.69
1:B:218:SER:HB2	1:B:219:PRO:HD3	1.75	0.69
1:B:849:TYR:HD1	1:B:854:THR:HA	1.58	0.69
1:A:217:ILE:HG13	1:A:218:SER:N	2.08	0.69
1:B:60:HIS:O	1:B:63:ALA:HB3	1.92	0.69
1:B:59:ILE:HD11	1:B:124:VAL:HG11	1.73	0.69
1:B:35:VAL:O	1:B:39:PHE:HB2	1.92	0.69
1:A:388:LEU:HB2	1:A:413:VAL:HG12	1.73	0.69
1:A:409:LEU:CD2	1:A:602:ILE:HB	2.22	0.69
1:A:409:LEU:HD13	1:A:410:ASN:N	2.08	0.69
1:A:1079:LEU:HD23	1:A:1194:LEU:HD11	1.73	0.69
1:B:1142:VAL:O	1:B:1146:LYS:HG2	1.92	0.69
1:B:527:LEU:HD23	1:B:527:LEU:N	2.07	0.69
1:B:420:ALA:C	1:B:421:LEU:HD12	2.12	0.69
1:B:883:LYS:HA	1:B:886:LEU:HG	1.74	0.69
1:A:45:LEU:H	1:A:45:LEU:HD22	1.57	0.69
1:B:972:LEU:O	1:B:975:SER:HB2	1.93	0.69
1:A:219:PRO:O	1:A:223:LEU:HG	1.91	0.69
1:A:585:LEU:HD12	1:A:618:TYR:HE1	1.56	0.69
1:B:585:LEU:HD12	1:B:618:TYR:HE1	1.56	0.69
1:A:133:CYS:O	1:A:134:LEU:C	2.29	0.69
1:A:519:LEU:HD13	1:A:519:LEU:N	2.07	0.69
1:B:121:VAL:HG23	1:B:122:LEU:N	2.08	0.68
1:B:324:ILE:CG1	1:B:326:GLN:H	2.05	0.68
1:A:482:GLU:O	1:A:485:ARG:N	2.26	0.68
1:A:267:LYS:H	1:A:270:LEU:HD21	1.56	0.68
1:A:354:ALA:O	1:A:358:ALA:CB	2.41	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:SER:HB3	1:A:1010:LYS:HG2	1.75	0.68
1:A:1053:SER:C	1:A:1054:LEU:HD22	2.13	0.68
1:B:615:LYS:HA	1:B:619:PHE:CD2	2.28	0.68
1:B:857:LEU:CD1	1:B:976:ALA:HB3	2.23	0.68
1:A:389:GLU:HB2	1:A:448:SER:HB3	1.75	0.68
1:A:282:ARG:HB3	1:A:778:GLU:HG2	1.74	0.68
1:B:1053:SER:C	1:B:1054:LEU:HD22	2.13	0.68
1:A:1243:GLN:O	1:A:1246:LYS:HD2	1.93	0.68
1:A:158:TRP:HE1	1:A:900:PHE:HB2	1.55	0.68
1:B:389:GLU:HB2	1:B:448:SER:HB3	1.74	0.68
1:A:1137:SER:OG	1:A:1140:GLU:HB2	1.93	0.68
1:A:819:ALA:O	1:A:822:LYS:HB3	1.94	0.68
1:A:1158:PRO:O	1:A:1159:ASP:HB2	1.94	0.68
1:B:310:PHE:CE2	1:B:331:PHE:HB3	2.28	0.68
1:A:210:LEU:HG	1:A:322:TYR:CD2	2.29	0.68
1:A:972:LEU:O	1:A:975:SER:HB2	1.93	0.68
1:A:537:ILE:O	1:A:538:ALA:C	2.30	0.68
1:B:1166:GLY:O	1:B:1167:ASP:HB3	1.93	0.68
1:A:615:LYS:HA	1:A:619:PHE:CD2	2.28	0.68
1:A:362:PHE:HA	1:A:365:ILE:HD12	1.75	0.68
1:A:1166:GLY:O	1:A:1167:ASP:HB3	1.93	0.68
1:A:297:ALA:O	1:A:301:LEU:HB2	1.93	0.68
1:B:979:PHE:O	1:B:982:MET:HB3	1.94	0.68
1:A:36:LEU:HD12	1:A:37:THR:N	2.07	0.68
1:A:1142:VAL:O	1:A:1146:LYS:HG2	1.94	0.68
1:B:1102:VAL:HG13	1:B:1103:GLN:H	1.59	0.68
1:A:1036:VAL:CB	1:A:1052:LEU:HB3	2.22	0.68
1:B:388:LEU:HB2	1:B:413:VAL:HG12	1.75	0.68
1:A:585:LEU:H	1:A:585:LEU:HD22	1.59	0.68
1:A:256:ALA:O	1:A:260:VAL:HG23	1.94	0.68
1:B:1137:SER:OG	1:B:1140:GLU:HB2	1.94	0.68
1:B:1037:VAL:HG22	1:B:1087:ALA:O	1.93	0.68
1:A:443:LEU:HD23	1:A:443:LEU:O	1.93	0.68
1:B:1032:GLN:HE21	1:B:1055:GLU:CG	2.07	0.68
1:B:1243:GLN:O	1:B:1246:LYS:HD2	1.94	0.68
1:A:911:LYS:O	1:A:914:THR:HB	1.94	0.68
1:B:922:ILE:HB	1:B:923:PRO:HD3	1.75	0.68
1:A:697:LEU:HB3	1:A:828:ARG:NH2	2.09	0.68
1:A:826:GLY:O	1:A:829:LEU:HB2	1.94	0.68
1:B:1039:ASN:HB2	1:B:1047:PRO:CA	2.20	0.68
1:B:519:LEU:HD13	1:B:519:LEU:N	2.09	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:315:SER:OG	1:A:747:ASN:HB3	1.95	0.67
1:B:45:LEU:H	1:B:45:LEU:HD22	1.57	0.67
1:B:357:ALA:O	1:B:361:VAL:HG22	1.95	0.67
1:B:36:LEU:HD12	1:B:37:THR:N	2.08	0.67
1:B:315:SER:CB	1:B:747:ASN:HD22	2.08	0.67
1:B:354:ALA:O	1:B:358:ALA:CB	2.42	0.67
1:B:390:PHE:HB2	1:B:411:LEU:O	1.94	0.67
1:B:433:VAL:HG13	1:B:549:LEU:HD23	1.74	0.67
1:B:534:ARG:HH21	1:B:564:VAL:HG11	1.60	0.67
1:A:288:ALA:HA	1:A:291:ALA:HB3	1.75	0.67
1:B:697:LEU:HB3	1:B:828:ARG:NH2	2.09	0.67
1:B:401:LYS:CD	1:B:401:LYS:H	2.06	0.67
1:A:91:MET:HB2	1:A:94:ALA:HB3	1.76	0.67
1:B:286:LYS:HE2	1:B:778:GLU:HG2	1.77	0.67
1:B:99:MET:HB2	1:B:961:THR:O	1.95	0.67
1:A:218:SER:HB2	1:A:219:PRO:HD3	1.75	0.67
1:A:314:THR:O	1:A:318:ILE:HG22	1.94	0.67
1:A:78:PHE:CZ	1:A:967:PHE:O	2.48	0.67
1:B:187:GLY:O	1:B:190:PHE:HB3	1.94	0.67
1:B:919:SER:O	1:B:923:PRO:CD	2.42	0.67
1:B:91:MET:HB2	1:B:94:ALA:HB3	1.75	0.67
1:B:286:LYS:HG2	1:B:778:GLU:HG3	1.75	0.67
1:A:1037:VAL:HG22	1:A:1087:ALA:O	1.94	0.67
1:A:552:GLU:O	1:A:555:SER:N	2.25	0.67
1:B:207:GLY:HA3	1:B:211:THR:H	1.59	0.67
1:B:482:GLU:O	1:B:485:ARG:N	2.27	0.67
1:B:338:ALA:O	1:B:341:VAL:HB	1.94	0.67
1:B:68:MET:O	1:B:71:PHE:HB3	1.94	0.67
1:B:811:THR:HA	1:B:814:LEU:HD23	1.75	0.67
1:A:141:HIS:O	1:A:144:ARG:HB3	1.95	0.67
1:A:1114:GLN:HE22	1:A:1200:SER:HB2	1.58	0.67
1:A:696:ILE:HD13	1:A:998:THR:HG23	1.75	0.67
1:B:1019:THR:HG22	1:B:1100:LEU:HD12	1.76	0.67
1:B:1229:ARG:C	1:B:1231:SER:H	1.98	0.67
1:B:55:LEU:O	1:B:59:ILE:HG23	1.95	0.67
1:A:35:VAL:O	1:A:39:PHE:HB2	1.94	0.67
1:B:1137:SER:HB3	1:B:1140:GLU:CB	2.25	0.67
1:B:850:GLY:C	1:B:852:GLN:H	1.98	0.67
1:B:696:ILE:HD13	1:B:998:THR:HG23	1.75	0.67
1:B:799:TRP:HA	1:B:799:TRP:HE3	1.60	0.67
1:A:318:ILE:HG23	1:A:735:PHE:CE2	2.29	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:74:MET:SD	1:A:953:PHE:CE1	2.88	0.67
1:B:909:GLU:O	1:B:912:PHE:HB2	1.95	0.67
1:A:1137:SER:HB3	1:A:1140:GLU:CB	2.24	0.67
1:B:618:TYR:O	1:B:622:VAL:HG23	1.94	0.67
1:B:210:LEU:HG	1:B:322:TYR:HD2	1.58	0.66
1:B:773:PHE:O	1:B:776:ALA:HB3	1.95	0.66
1:B:98:ALA:O	1:B:102:LYS:HG2	1.95	0.66
1:A:261:ILE:C	1:A:263:PHE:H	1.98	0.66
1:B:1063:ALA:HA	1:B:1225:VAL:HG13	1.77	0.66
1:A:138:ARG:NH2	1:B:515:GLN:NE2	2.42	0.66
1:A:214:ILE:HG12	1:A:331:PHE:CE1	2.30	0.66
1:B:125:ALA:O	1:B:129:VAL:HG23	1.94	0.66
1:A:386:GLY:CA	1:A:450:ASP:HA	2.24	0.66
1:A:901:ARG:HD3	1:A:901:ARG:H	1.59	0.66
1:B:908:ARG:O	1:B:909:GLU:C	2.34	0.66
1:A:1032:GLN:HE21	1:A:1055:GLU:CG	2.07	0.66
1:A:1154:ILE:HD13	1:A:1161:TYR:HE2	1.58	0.66
1:B:122:LEU:HD12	1:B:939:SER:HB2	1.77	0.66
1:B:851:TRP:HA	1:B:854:THR:CB	2.21	0.66
1:B:978:VAL:HG22	2:B:6003:2J8:H29	1.77	0.66
1:A:35:VAL:HG21	1:A:355:ARG:HH21	1.60	0.66
1:B:414:LYS:HB2	1:B:417:GLN:OE1	1.96	0.66
1:B:447:VAL:HG13	1:B:454:ILE:HG22	1.77	0.66
1:A:1260:LYS:HD2	1:A:1260:LYS:H	1.59	0.66
1:B:164:VAL:CG1	1:B:164:VAL:O	2.43	0.66
1:A:1229:ARG:C	1:A:1231:SER:H	1.99	0.66
1:A:175:VAL:HG13	1:A:176:SER:N	2.10	0.66
1:A:357:ALA:O	1:A:361:VAL:HG22	1.94	0.66
1:A:1001:ALA:O	1:A:1005:ILE:HG13	1.94	0.66
1:A:238:LYS:HZ2	1:A:242:ALA:HB2	1.58	0.66
1:B:207:GLY:HA3	1:B:211:THR:CB	2.24	0.66
1:A:212:LEU:HA	1:A:215:LEU:CG	2.26	0.66
1:A:318:ILE:HG23	1:A:735:PHE:CZ	2.30	0.66
1:B:238:LYS:HZ3	1:B:242:ALA:HB2	1.57	0.66
1:A:121:VAL:HG23	1:A:122:LEU:N	2.09	0.66
1:A:900:PHE:O	1:A:902:THR:N	2.21	0.66
1:B:256:ALA:O	1:B:260:VAL:HG23	1.95	0.66
1:B:219:PRO:O	1:B:223:LEU:HG	1.96	0.66
1:B:288:ALA:HA	1:B:291:ALA:HB3	1.78	0.66
1:B:318:ILE:HD13	1:B:327:VAL:CG1	2.25	0.66
1:A:534:ARG:HH21	1:A:564:VAL:HG11	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:443:LEU:O	1:B:443:LEU:HD23	1.96	0.66
1:B:458:ASN:ND2	1:B:459:VAL:N	2.44	0.66
1:B:468:VAL:HG22	1:B:549:LEU:HD13	1.78	0.66
1:A:790:LYS:HB3	1:A:794:ARG:NH2	2.10	0.66
1:A:401:LYS:H	1:A:401:LYS:CD	2.07	0.66
1:B:207:GLY:CA	1:B:211:THR:HB	2.24	0.66
1:A:909:GLU:O	1:A:912:PHE:HB2	1.96	0.66
1:A:239:GLU:HB3	1:A:285:ILE:HG12	1.78	0.66
1:A:282:ARG:O	1:A:286:LYS:HD3	1.96	0.66
1:B:1179:ARG:HA	1:B:1182:ILE:HG13	1.77	0.66
1:B:1184:ARG:O	1:B:1187:VAL:HG12	1.95	0.66
1:B:985:GLY:HA3	2:B:6003:2J8:H32A	1.76	0.66
1:A:414:LYS:HB2	1:A:417:GLN:OE1	1.95	0.66
1:B:217:ILE:HG13	1:B:218:SER:N	2.11	0.66
1:B:68:MET:SD	1:B:332:PHE:HE1	2.18	0.66
1:B:147:PHE:CD2	1:B:365:ILE:HG12	2.31	0.66
1:A:458:ASN:ND2	1:A:459:VAL:N	2.44	0.66
1:B:465:ILE:O	1:B:545:PRO:HB2	1.96	0.66
1:B:697:LEU:HD12	1:B:698:LYS:N	2.11	0.66
1:B:141:HIS:O	1:B:144:ARG:HB3	1.96	0.65
1:A:447:VAL:HG13	1:A:454:ILE:HG22	1.78	0.65
1:A:468:VAL:HG22	1:A:549:LEU:HD13	1.77	0.65
1:B:467:GLY:N	1:B:545:PRO:HG3	2.11	0.65
1:A:214:ILE:HD11	1:A:330:VAL:HB	1.78	0.65
1:A:158:TRP:CE2	1:A:900:PHE:HB2	2.31	0.65
1:A:1137:SER:CB	1:A:1140:GLU:HB2	2.26	0.65
1:A:98:ALA:O	1:A:102:LYS:HG2	1.96	0.65
1:B:972:LEU:N	1:B:972:LEU:HD12	2.12	0.65
1:A:324:ILE:HG13	1:A:326:GLN:H	1.61	0.65
1:A:438:ARG:HB2	1:A:462:LEU:HD21	1.78	0.65
1:A:892:ILE:CB	1:A:916:TYR:HE1	2.09	0.65
1:B:379:HIS:CD2	1:B:380:LYS:H	2.14	0.65
1:B:1144:ALA:HA	1:B:1186:LEU:CD1	2.23	0.65
1:B:286:LYS:HE2	1:B:778:GLU:CG	2.26	0.65
1:B:790:LYS:HB3	1:B:794:ARG:NH2	2.11	0.65
1:B:799:TRP:HA	1:B:799:TRP:CE3	2.28	0.65
1:A:889:SER:OG	1:A:919:SER:HB2	1.96	0.65
1:B:585:LEU:HD22	1:B:585:LEU:H	1.61	0.65
1:A:462:LEU:O	1:A:466:ILE:HD13	1.96	0.65
1:A:533:GLN:NE2	1:A:553:ALA:HB1	2.11	0.65
1:A:148:PHE:HD2	1:A:913:GLU:OE2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1063:ALA:HB2	1:B:1236:ALA:HB1	1.79	0.65
1:B:727:ILE:O	1:B:731:VAL:HG23	1.96	0.65
1:A:207:GLY:HA3	1:A:211:THR:N	2.11	0.65
1:A:857:LEU:CD1	1:A:977:ILE:HG12	2.25	0.65
1:A:55:LEU:O	1:A:59:ILE:HG23	1.97	0.65
1:A:43:GLY:HA3	1:A:46:ASP:HB2	1.79	0.65
1:A:68:MET:SD	1:A:332:PHE:HE1	2.19	0.65
1:A:919:SER:O	1:A:923:PRO:CD	2.45	0.65
1:B:158:TRP:CZ2	1:B:900:PHE:HB2	2.32	0.65
1:B:536:ALA:O	1:B:539:ARG:HB3	1.97	0.65
1:A:1106:ARG:O	1:A:1109:LEU:HD22	1.96	0.65
1:A:799:TRP:CE3	1:A:799:TRP:HA	2.29	0.65
1:A:799:TRP:HA	1:A:799:TRP:HE3	1.60	0.65
1:B:1114:GLN:HE22	1:B:1200:SER:HB2	1.61	0.65
1:A:338:ALA:O	1:A:341:VAL:HB	1.95	0.65
1:B:211:THR:O	1:B:215:LEU:HG	1.97	0.65
1:A:322:TYR:CZ	1:A:324:ILE:CD1	2.80	0.65
1:A:564:VAL:O	1:A:567:ALA:HB3	1.96	0.65
1:A:697:LEU:HD12	1:A:698:LYS:N	2.11	0.65
1:A:1063:ALA:HA	1:A:1225:VAL:HG13	1.79	0.65
1:B:1036:VAL:HB	1:B:1052:LEU:CB	2.24	0.65
1:A:589:ARG:C	1:A:591:ALA:H	2.00	0.65
1:B:288:ALA:O	1:B:291:ALA:HB3	1.97	0.65
1:B:769:GLN:HG3	1:B:773:PHE:HE2	1.62	0.65
1:A:1195:LEU:HD23	1:A:1214:LEU:HD11	1.79	0.65
1:B:1138:TYR:O	1:B:1142:VAL:HG23	1.97	0.65
1:A:315:SER:HA	1:A:747:ASN:HD22	1.61	0.65
1:A:388:LEU:HD13	1:A:413:VAL:HG13	1.79	0.65
1:A:257:ILE:HD13	1:A:257:ILE:C	2.17	0.65
1:B:1137:SER:CB	1:B:1140:GLU:HB2	2.26	0.65
1:A:883:LYS:O	1:A:887:GLU:HB2	1.97	0.65
1:B:198:GLY:O	1:B:202:ILE:HG13	1.97	0.64
1:B:324:ILE:HG12	1:B:326:GLN:H	1.61	0.64
1:A:834:GLN:O	1:A:837:ALA:HB3	1.96	0.64
1:A:857:LEU:HG	1:A:977:ILE:CD1	2.27	0.64
1:A:972:LEU:N	1:A:972:LEU:HD12	2.13	0.64
1:B:361:VAL:O	1:B:365:ILE:HD12	1.96	0.64
1:A:1179:ARG:HA	1:A:1182:ILE:HG13	1.78	0.64
1:B:879:ALA:O	1:B:883:LYS:HG2	1.97	0.64
1:B:762:SER:O	1:B:765:THR:HG22	1.96	0.64
1:B:845:ILE:HA	1:B:848:ILE:HG22	1.78	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:838:ASN:ND2	1:B:979:PHE:HB3	2.11	0.64
1:A:722:PRO:HG2	1:A:841:THR:CB	2.27	0.64
1:A:371:ILE:CG2	1:A:371:ILE:O	2.45	0.64
1:A:549:LEU:N	1:A:549:LEU:HD12	2.13	0.64
1:B:892:ILE:CB	1:B:916:TYR:HE1	2.09	0.64
1:B:690:PRO:HG2	1:B:1006:ARG:HH22	1.60	0.64
1:A:1023:LYS:HG3	1:A:1026:MET:HG3	1.80	0.64
1:A:1102:VAL:HG13	1:A:1103:GLN:H	1.61	0.64
1:B:857:LEU:HD12	1:B:973:VAL:HG13	1.79	0.64
1:B:174:ASP:O	1:B:178:ILE:HG13	1.97	0.64
1:A:762:SER:O	1:A:765:THR:HG22	1.97	0.64
1:B:1128:ALA:CB	1:B:1136:VAL:HG13	2.27	0.64
1:B:107:MET:HA	1:B:110:TYR:HD2	1.62	0.64
1:B:339:PHE:CE1	2:B:6003:2J8:C21	2.81	0.64
1:B:857:LEU:HD11	1:B:976:ALA:HB3	1.79	0.64
1:A:390:PHE:HB2	1:A:411:LEU:O	1.98	0.64
1:B:478:THR:HG21	1:B:482:GLU:HG3	1.80	0.64
1:B:911:LYS:O	1:B:914:THR:HB	1.97	0.64
1:B:692:SER:HB2	1:B:695:ARG:HB3	1.78	0.64
1:B:762:SER:CA	1:B:765:THR:HG22	2.28	0.64
1:B:58:ILE:HD12	1:B:58:ILE:H	1.63	0.64
1:A:419:VAL:O	1:A:579:ILE:HA	1.96	0.64
1:B:458:ASN:ND2	1:B:459:VAL:H	1.94	0.64
1:A:1116:PRO:HB3	1:A:1178:GLN:OE1	1.97	0.64
1:A:288:ALA:O	1:A:291:ALA:HB3	1.98	0.64
1:B:1195:LEU:HD23	1:B:1214:LEU:HD11	1.79	0.64
1:A:1199:THR:CG2	1:A:1210:VAL:HG11	2.28	0.64
1:A:308:LEU:HA	1:A:751:PHE:CE2	2.32	0.64
1:B:883:LYS:O	1:B:887:GLU:HB2	1.96	0.64
1:B:1205:GLU:HA	1:B:1208:LYS:HB3	1.80	0.64
1:A:688:VAL:HG22	1:A:1003:HIS:CE1	2.33	0.64
1:A:198:GLY:O	1:A:202:ILE:HG13	1.98	0.64
1:B:359:TYR:HA	1:B:362:PHE:HB3	1.80	0.64
1:A:158:TRP:HA	1:A:162:HIS:CD2	2.30	0.64
1:A:536:ALA:O	1:A:539:ARG:HB3	1.98	0.64
1:B:438:ARG:HB2	1:B:462:LEU:HD21	1.78	0.64
1:B:889:SER:OG	1:B:919:SER:HB2	1.97	0.64
1:B:901:ARG:H	1:B:901:ARG:HD3	1.60	0.64
1:A:1138:TYR:O	1:A:1142:VAL:HG23	1.97	0.64
1:B:1116:PRO:HB3	1:B:1178:GLN:OE1	1.97	0.64
1:B:76:ASP:OD1	1:B:326:GLN:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:211:THR:O	1:A:215:LEU:HG	1.98	0.64
1:A:838:ASN:ND2	1:A:979:PHE:HB3	2.12	0.64
1:B:478:THR:CG2	1:B:482:GLU:HG3	2.28	0.64
1:A:1020:GLN:NE2	1:A:1022:LEU:H	1.95	0.64
1:A:267:LYS:HA	1:A:270:LEU:HD11	1.79	0.64
1:A:292:ASN:CA	1:A:295:MET:HB2	2.26	0.64
1:B:423:GLY:HA2	1:B:597:PHE:O	1.98	0.64
1:A:147:PHE:CD2	1:A:365:ILE:HG12	2.33	0.64
1:A:458:ASN:ND2	1:A:459:VAL:H	1.96	0.64
1:A:1081:ARG:CZ	1:A:1098:LYS:O	2.46	0.64
1:A:279:GLU:HG2	1:A:782:LYS:NZ	2.13	0.64
1:A:996:LYS:CD	1:A:996:LYS:H	2.08	0.64
1:B:1159:ASP:O	1:B:1160:LYS:HG3	1.98	0.64
1:B:175:VAL:HG13	1:B:176:SER:N	2.13	0.64
1:B:1178:GLN:O	1:B:1181:ALA:HB3	1.97	0.64
1:A:585:LEU:O	1:A:588:VAL:HB	1.97	0.64
1:B:322:TYR:CZ	1:B:324:ILE:CD1	2.81	0.64
1:B:750:LEU:O	1:B:753:LEU:HB3	1.98	0.64
1:B:834:GLN:O	1:B:837:ALA:HB3	1.97	0.64
1:B:853:LEU:N	1:B:853:LEU:HD22	2.12	0.64
1:A:465:ILE:O	1:A:545:PRO:HB2	1.98	0.64
1:A:59:ILE:CD1	1:A:124:VAL:HG11	2.28	0.64
1:B:464:GLU:HA	1:B:543:ARG:NH2	2.12	0.64
1:A:1128:ALA:CB	1:A:1136:VAL:HG13	2.27	0.64
1:A:392:ASN:O	1:A:445:GLY:HA3	1.98	0.64
1:B:1192:ILE:HD13	1:B:1193:LEU:N	2.12	0.64
1:B:59:ILE:CD1	1:B:124:VAL:HG11	2.28	0.63
1:A:913:GLU:HA	1:A:916:TYR:HD2	1.62	0.63
1:B:458:ASN:HD22	1:B:459:VAL:H	1.46	0.63
1:A:1184:ARG:O	1:A:1187:VAL:HG12	1.98	0.63
1:B:212:LEU:HA	1:B:215:LEU:CG	2.28	0.63
1:B:239:GLU:HB3	1:B:285:ILE:CG1	2.28	0.63
1:A:478:THR:CG2	1:A:482:GLU:HG3	2.28	0.63
1:A:891:LYS:O	1:A:894:THR:HB	1.98	0.63
1:B:564:VAL:O	1:B:567:ALA:HB3	1.99	0.63
1:B:891:LYS:O	1:B:894:THR:HB	1.99	0.63
1:B:910:GLN:O	1:B:911:LYS:C	2.37	0.63
1:A:762:SER:HA	1:A:765:THR:CG2	2.29	0.63
1:A:795:GLN:HE21	1:A:796:ASP:N	1.96	0.63
1:A:879:ALA:O	1:A:883:LYS:HG2	1.98	0.63
1:B:133:CYS:SG	1:B:931:ALA:HA	2.39	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:478:THR:HG21	1:A:482:GLU:HG3	1.80	0.63
1:A:212:LEU:HD12	1:A:215:LEU:HB2	1.80	0.63
1:B:548:LEU:C	1:B:549:LEU:HD12	2.19	0.63
1:A:267:LYS:HG2	1:A:793:LEU:HG	1.79	0.63
1:B:263:PHE:CE1	1:B:1129:TYR:HB3	2.32	0.63
1:B:933:VAL:O	1:B:936:ILE:HG22	1.98	0.63
1:A:458:ASN:HD22	1:A:459:VAL:H	1.47	0.63
1:A:471:GLN:O	1:A:473:PRO:HD3	1.98	0.63
1:A:492:THR:HG22	1:A:494:ASP:H	1.63	0.63
1:A:933:VAL:O	1:A:936:ILE:HG22	1.99	0.63
1:A:1014:ILE:O	1:A:1014:ILE:HD12	1.98	0.63
1:A:239:GLU:HB3	1:A:285:ILE:CG1	2.28	0.63
1:B:341:VAL:O	1:B:344:ALA:HB3	1.99	0.63
1:B:35:VAL:HG21	1:B:355:ARG:HH21	1.60	0.63
1:A:908:ARG:O	1:A:909:GLU:C	2.34	0.63
1:B:1092:LEU:HD13	1:B:1100:LEU:HD21	1.81	0.63
1:B:43:GLY:HA3	1:B:46:ASP:HB2	1.80	0.63
1:A:187:GLY:O	1:A:190:PHE:HB3	1.98	0.63
1:A:762:SER:CA	1:A:765:THR:HG22	2.28	0.63
1:B:1102:VAL:HG13	1:B:1103:GLN:N	2.14	0.63
1:A:164:VAL:O	1:A:164:VAL:CG1	2.47	0.63
1:B:1199:THR:CG2	1:B:1210:VAL:HG11	2.28	0.63
1:B:296:GLY:O	1:B:300:LEU:HG	1.97	0.63
1:B:204:PHE:HA	1:B:211:THR:HG21	1.80	0.63
1:B:282:ARG:O	1:B:286:LYS:HD3	1.99	0.63
1:A:855:LEU:O	1:A:858:LEU:HG	1.99	0.63
1:B:147:PHE:O	1:B:151:ILE:HG13	1.99	0.63
1:A:172:THR:O	1:A:175:VAL:HG12	1.99	0.63
1:B:462:LEU:O	1:B:466:ILE:HD13	1.99	0.63
1:A:1036:VAL:HB	1:A:1052:LEU:CB	2.24	0.63
1:A:107:MET:HA	1:A:110:TYR:HD2	1.62	0.63
1:A:296:GLY:O	1:A:300:LEU:HG	1.99	0.63
1:B:339:PHE:CD1	2:B:6003:2J8:SE3	3.02	0.63
1:B:785:ARG:HH21	1:B:815:ALA:HA	1.63	0.63
1:B:1106:ARG:O	1:B:1109:LEU:HD22	1.99	0.63
1:B:217:ILE:HD11	1:B:331:PHE:HE2	1.64	0.62
1:B:722:PRO:HG2	1:B:841:THR:CB	2.29	0.62
1:B:943:ALA:O	1:B:947:PHE:HB2	1.99	0.62
1:B:59:ILE:CG1	1:B:124:VAL:HG11	2.29	0.62
1:B:195:THR:CB	1:B:340:SER:HB2	2.18	0.62
1:A:374:PHE:CE2	1:A:376:LYS:HB3	2.34	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:540:ALA:O	1:A:543:ARG:HB3	1.98	0.62
1:A:58:ILE:H	1:A:58:ILE:HD12	1.64	0.62
1:B:471:GLN:HA	1:B:553:ALA:HA	1.79	0.62
1:B:318:ILE:CD1	1:B:327:VAL:HG13	2.29	0.62
1:A:214:ILE:HG12	1:A:331:PHE:CZ	2.34	0.62
1:A:315:SER:HA	1:A:747:ASN:ND2	2.14	0.62
1:A:943:ALA:O	1:A:947:PHE:HB2	1.99	0.62
1:B:894:THR:O	1:B:897:ILE:HG13	1.99	0.62
1:A:1005:ILE:O	1:A:1008:ILE:HG22	1.99	0.62
1:A:1063:ALA:HB2	1:A:1236:ALA:HB1	1.80	0.62
1:B:864:ILE:HD12	1:B:865:ALA:N	2.14	0.62
1:A:1095:LYS:HD2	1:A:1095:LYS:H	1.64	0.62
1:A:769:GLN:HG3	1:A:773:PHE:HE2	1.63	0.62
1:A:785:ARG:HH21	1:A:815:ALA:HA	1.64	0.62
1:B:858:LEU:HD12	1:B:859:ALA:N	2.14	0.62
1:B:123:ILE:O	1:B:127:ILE:HG12	2.00	0.62
1:A:548:LEU:HD23	1:A:549:LEU:N	2.14	0.62
1:A:1109:LEU:HD23	1:A:1109:LEU:O	1.99	0.62
1:B:1011:THR:N	1:B:1012:PRO:CD	2.56	0.62
1:B:221:LEU:HD11	1:B:309:ALA:HB3	1.79	0.62
1:A:310:PHE:CE2	1:A:331:PHE:HB3	2.35	0.62
1:A:462:LEU:HD12	1:A:466:ILE:HD13	1.80	0.62
1:A:59:ILE:CG1	1:A:124:VAL:HG11	2.29	0.62
1:A:894:THR:O	1:A:897:ILE:HG13	1.99	0.62
1:A:1097:ILE:HG23	1:A:1105:LEU:HD22	1.81	0.62
1:B:1097:ILE:HG23	1:B:1105:LEU:HD22	1.82	0.62
1:A:1261:GLY:H	1:A:1264:PHE:CB	2.11	0.62
1:B:304:ALA:CB	1:B:758:LEU:HD23	2.29	0.62
1:A:76:ASP:OD1	1:A:326:GLN:HB2	1.99	0.62
1:A:144:ARG:NH1	1:A:175:VAL:HG11	2.15	0.62
1:A:155:GLU:CB	1:A:156:ILE:HD12	2.30	0.62
1:A:359:TYR:HA	1:A:362:PHE:HB3	1.80	0.62
1:A:933:VAL:O	1:A:934:PHE:C	2.38	0.62
1:B:549:LEU:N	1:B:549:LEU:HD12	2.13	0.62
1:A:1102:VAL:HG13	1:A:1103:GLN:N	2.14	0.62
1:A:286:LYS:O	1:A:290:THR:HG23	1.99	0.62
1:B:1026:MET:O	1:B:1026:MET:HG3	1.99	0.62
1:A:175:VAL:HG13	1:A:176:SER:H	1.64	0.62
1:A:1144:ALA:HA	1:A:1186:LEU:CD1	2.23	0.62
1:B:441:ASP:CG	1:B:442:PRO:HD2	2.20	0.62
1:A:1192:ILE:HD13	1:A:1193:LEU:N	2.15	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:750:LEU:O	1:A:753:LEU:HB3	1.99	0.62
1:A:864:ILE:HD12	1:A:865:ALA:N	2.14	0.62
1:B:502:GLU:OE1	1:B:541:LEU:HD11	2.00	0.62
1:A:1129:TYR:CD2	1:A:1184:ARG:HG3	2.35	0.62
1:B:419:VAL:O	1:B:579:ILE:HA	1.99	0.62
1:B:144:ARG:NH1	1:B:175:VAL:HG11	2.15	0.62
1:A:502:GLU:OE1	1:A:541:LEU:HD11	2.00	0.62
1:A:548:LEU:C	1:A:549:LEU:HD12	2.19	0.62
1:A:910:GLN:O	1:A:911:LYS:C	2.38	0.62
1:B:411:LEU:HD23	1:B:412:LYS:N	2.15	0.62
1:B:462:LEU:HD12	1:B:466:ILE:HD13	1.80	0.62
1:B:900:PHE:O	1:B:903:VAL:HG12	1.99	0.62
1:A:1218:ARG:HH22	1:A:1235:ASN:ND2	1.90	0.62
1:B:585:LEU:O	1:B:588:VAL:HB	1.99	0.62
1:B:971:LEU:O	1:B:974:PHE:HB3	1.99	0.62
1:A:221:LEU:HD11	1:A:309:ALA:HB3	1.81	0.62
1:A:978:VAL:CG2	2:A:6001:2J8:H29	2.30	0.62
1:A:123:ILE:O	1:A:127:ILE:HG12	1.99	0.62
1:A:429:LYS:H	1:A:429:LYS:CD	2.09	0.62
1:B:548:LEU:HD23	1:B:549:LEU:N	2.13	0.62
1:A:257:ILE:HG21	1:A:800:PHE:HB3	1.81	0.62
1:B:1063:ALA:HB2	1:B:1236:ALA:CB	2.30	0.62
1:A:992:PRO:C	1:A:994:TYR:H	2.03	0.62
1:A:298:ALA:O	1:A:302:ILE:HG13	1.99	0.62
1:B:559:THR:O	1:B:562:GLU:HB3	2.00	0.62
1:A:360:GLU:HA	1:A:363:LYS:CE	2.29	0.61
1:A:379:HIS:HB3	1:A:457:ILE:HA	1.80	0.61
1:A:902:THR:O	1:A:904:VAL:N	2.33	0.61
1:B:904:VAL:HG13	1:B:905:SER:N	2.15	0.61
1:A:254:LEU:H	1:A:254:LEU:HD22	1.64	0.61
1:B:1150:ILE:O	1:B:1154:ILE:HG13	2.00	0.61
1:B:996:LYS:H	1:B:996:LYS:CD	2.08	0.61
1:A:959:LEU:HD22	1:A:964:LEU:HG	1.81	0.61
1:B:254:LEU:H	1:B:254:LEU:HD22	1.63	0.61
1:B:589:ARG:C	1:B:591:ALA:H	2.02	0.61
1:A:883:LYS:HD3	1:A:886:LEU:HD21	1.82	0.61
1:A:441:ASP:CG	1:A:442:PRO:HD2	2.21	0.61
1:B:339:PHE:CG	2:B:6003:2J8:SE3	3.03	0.61
1:A:341:VAL:O	1:A:344:ALA:HB3	2.00	0.61
1:A:1260:LYS:N	1:A:1260:LYS:HD2	2.16	0.61
1:A:1058:LYS:O	1:A:1060:GLN:HG3	2.00	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1001:ALA:O	1:B:1005:ILE:HG13	2.00	0.61
1:B:795:GLN:HE21	1:B:796:ASP:N	1.98	0.61
1:A:858:LEU:HD12	1:A:859:ALA:N	2.15	0.61
1:B:172:THR:O	1:B:175:VAL:HG12	2.00	0.61
1:A:365:ILE:HG22	1:A:366:ASP:N	2.15	0.61
1:A:1092:LEU:HD13	1:A:1100:LEU:HD21	1.81	0.61
1:A:1063:ALA:HB2	1:A:1236:ALA:CB	2.30	0.61
1:B:1260:LYS:HD2	1:B:1260:LYS:N	2.15	0.61
1:B:267:LYS:HA	1:B:270:LEU:HD11	1.83	0.61
1:B:292:ASN:CA	1:B:295:MET:HB2	2.29	0.61
1:B:691:ALA:HA	1:B:1002:SER:HG	1.65	0.61
1:A:810:LEU:O	1:A:813:ARG:HB2	1.99	0.61
1:A:1205:GLU:HA	1:A:1208:LYS:HB3	1.81	0.61
1:B:388:LEU:HD13	1:B:413:VAL:HG13	1.81	0.61
1:B:1095:LYS:HD2	1:B:1095:LYS:H	1.64	0.61
1:A:1252:THR:HG23	1:A:1255:GLN:HB2	1.82	0.61
1:A:722:PRO:HA	1:A:979:PHE:CZ	2.35	0.61
1:A:927:ALA:HA	1:A:930:LYS:CE	2.30	0.61
1:B:1129:TYR:CD2	1:B:1184:ARG:HG3	2.35	0.61
1:B:509:ILE:HD12	1:B:510:MET:N	2.15	0.61
1:A:515:GLN:HE21	1:B:138:ARG:NH2	1.98	0.61
1:B:982:MET:HA	2:B:6003:2J8:H32	1.83	0.61
1:A:39:PHE:HE2	1:A:358:ALA:HB3	1.65	0.61
1:B:810:LEU:O	1:B:813:ARG:HB2	2.00	0.61
1:A:845:ILE:HA	1:A:848:ILE:HG22	1.81	0.61
1:A:857:LEU:HG	1:A:977:ILE:HD11	1.83	0.61
1:A:1090:VAL:HG13	1:A:1097:ILE:CB	2.25	0.61
1:A:265:GLY:CA	1:A:793:LEU:HD21	2.31	0.61
1:A:720:LEU:O	1:A:723:ALA:HB3	2.00	0.61
1:B:1113:SER:HA	1:B:1196:ASP:HB3	1.83	0.61
1:B:1042:THR:C	1:B:1044:PRO:HD2	2.21	0.61
1:A:1023:LYS:NZ	1:A:1023:LYS:HB3	2.16	0.61
1:A:773:PHE:CD1	1:A:774:GLY:N	2.68	0.61
1:A:1202:LEU:CG	1:A:1203:ASP:H	2.11	0.61
1:B:883:LYS:HD3	1:B:886:LEU:HD21	1.82	0.61
1:A:1248:LYS:HG2	1:A:1262:ILE:HD12	1.83	0.61
1:B:212:LEU:HD12	1:B:215:LEU:HB2	1.82	0.61
1:B:720:LEU:HD11	1:B:758:LEU:HA	1.83	0.61
1:A:303:TYR:CZ	2:A:6001:2J8:SE1	3.04	0.61
1:B:170:ARG:HB2	1:B:174:ASP:OD1	2.01	0.61
1:A:766:PHE:HA	1:A:769:GLN:NE2	2.06	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:509:ILE:HD12	1:A:510:MET:N	2.15	0.61
1:B:168:ASN:O	1:B:171:LEU:HB3	2.01	0.60
1:A:756:LEU:HD12	1:A:757:ILE:HG12	1.83	0.60
1:B:1252:THR:HG23	1:B:1255:GLN:HB2	1.82	0.60
1:B:1005:ILE:O	1:B:1008:ILE:HG22	2.01	0.60
1:A:170:ARG:HB2	1:A:174:ASP:OD1	2.00	0.60
1:B:382:ASP:HA	1:B:461:TYR:OH	2.01	0.60
1:A:1042:THR:C	1:A:1044:PRO:HD2	2.22	0.60
1:B:959:LEU:HD22	1:B:964:LEU:CB	2.25	0.60
1:B:773:PHE:CD1	1:B:774:GLY:N	2.68	0.60
1:B:360:GLU:HA	1:B:363:LYS:CE	2.30	0.60
1:A:797:VAL:HG21	1:A:1013:GLU:CG	2.26	0.60
1:B:1048:VAL:O	1:B:1049:LEU:HD22	2.02	0.60
1:B:711:ILE:HG13	1:B:715:ILE:HD11	1.83	0.60
1:B:855:LEU:O	1:B:858:LEU:HG	2.02	0.60
1:A:318:ILE:HD13	1:A:327:VAL:HG13	1.83	0.60
1:A:464:GLU:HA	1:A:543:ARG:NH2	2.16	0.60
1:B:689:PRO:N	1:B:690:PRO:HD2	2.17	0.60
1:B:257:ILE:HD13	1:B:257:ILE:C	2.21	0.60
1:B:722:PRO:HA	1:B:979:PHE:CZ	2.36	0.60
1:B:471:GLN:O	1:B:473:PRO:HD3	2.00	0.60
1:A:1043:ARG:N	1:A:1044:PRO:HD2	2.17	0.60
1:B:720:LEU:O	1:B:723:ALA:HB3	2.00	0.60
1:A:971:LEU:O	1:A:974:PHE:HB3	2.01	0.60
1:B:927:ALA:HA	1:B:930:LYS:CE	2.31	0.60
1:A:384:ILE:HG22	1:A:385:GLN:N	2.05	0.60
1:B:379:HIS:HB2	1:B:456:THR:O	2.01	0.60
1:A:1176:GLN:O	1:A:1180:ILE:HG13	2.01	0.60
1:B:762:SER:HA	1:B:765:THR:CG2	2.29	0.60
1:A:727:ILE:HD12	1:A:754:LEU:CA	2.32	0.60
1:A:853:LEU:CD2	1:A:853:LEU:H	1.96	0.60
1:B:358:ALA:O	1:B:362:PHE:HB2	2.01	0.60
1:B:365:ILE:HG22	1:B:366:ASP:N	2.17	0.60
1:A:374:PHE:CE2	1:A:376:LYS:CB	2.84	0.60
1:A:411:LEU:HD23	1:A:412:LYS:N	2.17	0.60
1:A:711:ILE:HG13	1:A:715:ILE:HD11	1.83	0.60
1:B:1063:ALA:HB3	1:B:1239:ILE:CA	2.24	0.60
1:B:1150:ILE:HB	1:B:1179:ARG:HB3	1.83	0.60
1:B:827:SER:O	1:B:831:VAL:HG23	2.01	0.60
1:B:507:ASP:O	1:B:510:MET:N	2.35	0.60
1:A:905:SER:O	1:A:907:THR:N	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:430:SER:O	1:B:434:GLN:HG3	2.02	0.60
1:B:540:ALA:O	1:B:543:ARG:HB3	2.01	0.60
1:A:465:ILE:C	1:A:466:ILE:HD12	2.22	0.60
1:B:902:THR:O	1:B:904:VAL:N	2.35	0.60
1:A:797:VAL:HG12	1:A:798:SER:N	2.16	0.60
1:B:1023:LYS:O	1:B:1025:ASN:N	2.35	0.60
1:A:883:LYS:HA	1:A:886:LEU:CG	2.32	0.60
1:B:978:VAL:O	1:B:981:ALA:HB3	2.02	0.60
1:B:861:VAL:HB	1:B:862:PRO:CD	2.32	0.59
1:B:155:GLU:CB	1:B:156:ILE:HD12	2.30	0.59
1:A:136:ALA:HB2	1:A:182:ILE:CB	2.32	0.59
1:B:465:ILE:C	1:B:466:ILE:HD12	2.22	0.59
1:B:492:THR:HG22	1:B:494:ASP:H	1.66	0.59
1:A:1178:GLN:O	1:A:1182:ILE:HG12	2.02	0.59
1:A:692:SER:HB2	1:A:695:ARG:HB3	1.84	0.59
1:B:279:GLU:HG2	1:B:782:LYS:HZ2	1.66	0.59
1:B:321:GLU:HG3	1:B:322:TYR:N	2.17	0.59
1:A:322:TYR:CZ	1:A:324:ILE:HD12	2.38	0.59
1:A:722:PRO:CG	1:A:841:THR:HB	2.31	0.59
1:A:861:VAL:HB	1:A:862:PRO:CD	2.32	0.59
1:B:175:VAL:HG13	1:B:176:SER:H	1.68	0.59
1:B:39:PHE:HE2	1:B:358:ALA:HB3	1.65	0.59
1:A:388:LEU:N	1:A:388:LEU:HD12	2.17	0.59
1:A:1150:ILE:HB	1:A:1179:ARG:HB3	1.82	0.59
1:A:713:CYS:O	1:A:716:ILE:HG12	2.02	0.59
1:A:245:LYS:HZ1	1:A:245:LYS:HA	1.67	0.59
1:B:1133:SER:O	1:B:1135:VAL:N	2.35	0.59
1:B:211:THR:O	1:B:214:ILE:HB	2.02	0.59
1:A:147:PHE:O	1:A:151:ILE:HG13	2.01	0.59
1:A:437:GLN:NE2	1:A:468:VAL:HG21	2.17	0.59
1:A:703:GLU:HB3	1:A:780:LEU:HD23	1.84	0.59
1:B:554:THR:OG1	1:B:562:GLU:HG3	2.03	0.59
1:A:1062:LEU:HD12	1:A:1224:ILE:HG23	1.85	0.59
1:B:267:LYS:HB3	1:B:790:LYS:CE	2.30	0.59
1:B:847:LEU:C	1:B:849:TYR:H	2.04	0.59
1:B:850:GLY:O	1:B:852:GLN:N	2.35	0.59
1:A:1113:SER:HA	1:A:1196:ASP:HB3	1.83	0.59
1:A:251:GLU:OE1	1:A:811:THR:HB	2.02	0.59
1:A:267:LYS:HA	1:A:270:LEU:HD21	1.83	0.59
1:A:297:ALA:HB1	1:A:763:PHE:CD2	2.38	0.59
1:A:827:SER:O	1:A:828:ARG:C	2.41	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1048:VAL:O	1:A:1049:LEU:HD22	2.01	0.59
1:B:552:GLU:O	1:B:555:SER:N	2.33	0.59
1:B:401:LYS:HD2	1:B:401:LYS:N	2.15	0.59
1:A:559:THR:O	1:A:562:GLU:HB3	2.01	0.59
1:A:894:THR:O	1:A:895:GLU:C	2.41	0.59
1:A:818:ALA:O	1:A:821:VAL:HG22	2.03	0.59
1:B:1020:GLN:HB3	1:B:1101:ASN:CB	2.32	0.59
1:B:245:LYS:HZ1	1:B:245:LYS:HA	1.66	0.59
1:B:1058:LYS:O	1:B:1060:GLN:HG3	2.02	0.59
1:B:310:PHE:CZ	1:B:331:PHE:HB3	2.38	0.59
1:B:784:LEU:HG	1:B:821:VAL:HG21	1.84	0.59
1:A:324:ILE:HG13	1:A:326:GLN:N	2.17	0.59
1:B:437:GLN:NE2	1:B:468:VAL:HG21	2.17	0.59
1:A:773:PHE:O	1:A:776:ALA:HB3	2.02	0.59
1:A:784:LEU:HG	1:A:821:VAL:HG21	1.84	0.59
1:B:1020:GLN:HB3	1:B:1101:ASN:HB2	1.85	0.59
1:B:1218:ARG:HH22	1:B:1235:ASN:ND2	1.90	0.59
1:A:1189:GLN:N	1:A:1190:PRO:HD3	2.18	0.59
1:B:1189:GLN:N	1:B:1190:PRO:HD3	2.18	0.59
1:B:207:GLY:O	1:B:209:LYS:N	2.33	0.59
1:B:212:LEU:O	1:B:215:LEU:N	2.36	0.59
1:B:756:LEU:HD12	1:B:757:ILE:HG12	1.85	0.59
1:A:324:ILE:HG13	1:A:326:GLN:CA	2.33	0.59
1:B:491:VAL:HG21	1:B:496:ILE:HD11	1.85	0.59
1:B:238:LYS:HD3	1:B:238:LYS:O	2.03	0.59
1:B:317:VAL:HG12	1:B:317:VAL:O	2.03	0.59
1:A:211:THR:O	1:A:214:ILE:HB	2.03	0.59
1:B:374:PHE:HD1	1:B:375:SER:N	2.01	0.59
1:A:611:LEU:O	1:A:614:GLU:HB3	2.03	0.59
1:B:1043:ARG:N	1:B:1044:PRO:HD2	2.17	0.59
1:B:856:LEU:HD21	1:B:952:CYS:HA	1.85	0.59
1:A:65:PRO:O	1:A:68:MET:N	2.36	0.59
1:A:168:ASN:O	1:A:171:LEU:HB3	2.01	0.59
1:A:491:VAL:HG21	1:A:496:ILE:HD11	1.85	0.59
1:A:297:ALA:HB1	1:A:763:PHE:HA	1.85	0.59
1:B:1109:LEU:O	1:B:1109:LEU:HD23	2.03	0.59
1:B:313:GLY:O	1:B:317:VAL:HG23	2.03	0.59
1:A:49:TYR:HH	1:A:130:SER:HB2	1.66	0.59
1:A:904:VAL:HG13	1:A:905:SER:N	2.17	0.59
1:B:473:PRO:HB3	1:B:533:GLN:HA	1.85	0.59
1:B:690:PRO:HG2	1:B:1006:ARG:CZ	2.32	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1109:LEU:HD21	1:A:1188:ARG:HH11	1.68	0.59
1:B:603:VAL:HG23	1:B:604:GLU:N	2.14	0.59
1:B:611:LEU:O	1:B:614:GLU:HB3	2.03	0.59
1:B:223:LEU:O	1:B:227:ILE:HG13	2.04	0.58
1:B:722:PRO:HG2	1:B:841:THR:OG1	2.03	0.58
1:A:118:GLY:O	1:A:119:ALA:C	2.42	0.58
1:B:933:VAL:O	1:B:934:PHE:C	2.39	0.58
1:B:1020:GLN:CG	1:B:1021:GLY:N	2.66	0.58
1:A:405:ILE:HD12	1:A:427:CYS:HB3	1.85	0.58
1:B:813:ARG:HA	1:B:817:ASP:OD2	2.02	0.58
1:A:721:GLN:HG3	1:A:979:PHE:HE1	1.67	0.58
1:B:53:GLY:O	1:B:56:ALA:HB3	2.02	0.58
1:A:358:ALA:O	1:A:362:PHE:HB2	2.02	0.58
1:A:1022:LEU:O	1:A:1022:LEU:CD2	2.51	0.58
1:B:837:ALA:HB1	1:B:982:MET:HE1	1.83	0.58
1:A:209:LYS:O	1:A:212:LEU:HB3	2.04	0.58
1:B:930:LYS:O	1:B:933:VAL:HB	2.03	0.58
1:A:345:SER:HB3	1:A:346:PRO:HD3	1.85	0.58
1:A:114:TYR:CB	1:A:950:ALA:HB2	2.33	0.58
1:A:960:VAL:CG1	1:A:966:THR:OG1	2.51	0.58
1:A:756:LEU:CD1	1:A:757:ILE:HG12	2.34	0.58
1:B:986:GLN:NE2	2:B:6003:2J8:H31	2.17	0.58
1:A:214:ILE:HG12	1:A:331:PHE:CD1	2.39	0.58
1:A:186:ILE:HG13	1:A:187:GLY:H	1.68	0.58
1:B:548:LEU:HD22	1:B:550:LEU:HD11	1.85	0.58
1:B:1090:VAL:HG13	1:B:1097:ILE:CB	2.25	0.58
1:B:1195:LEU:HD12	1:B:1195:LEU:N	2.18	0.58
1:B:110:TYR:HA	1:B:113:TYR:CD2	2.35	0.58
1:B:1221:ARG:HD2	1:B:1221:ARG:N	2.19	0.58
1:B:65:PRO:O	1:B:68:MET:N	2.36	0.58
1:A:722:PRO:HG2	1:A:841:THR:OG1	2.02	0.58
1:B:136:ALA:HB2	1:B:182:ILE:CB	2.32	0.58
1:A:548:LEU:HD22	1:A:550:LEU:HD11	1.85	0.58
1:A:611:LEU:HB3	1:A:618:TYR:HB3	1.86	0.58
1:B:1248:LYS:HG2	1:B:1262:ILE:HD12	1.84	0.58
1:B:286:LYS:O	1:B:290:THR:HG23	2.02	0.58
1:B:713:CYS:O	1:B:716:ILE:HG12	2.02	0.58
1:B:806:THR:HG23	1:B:809:ALA:H	1.69	0.58
1:A:491:VAL:HG21	1:A:496:ILE:CD1	2.33	0.58
1:B:210:LEU:O	1:B:214:ILE:HG13	2.04	0.58
1:B:818:ALA:O	1:B:821:VAL:HG22	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:210:LEU:O	1:A:214:ILE:HG13	2.03	0.58
1:A:207:GLY:HA3	1:A:211:THR:CB	2.34	0.58
1:A:72:GLY:HA2	1:A:326:GLN:HE21	1.66	0.58
1:A:897:ILE:CG1	1:A:898:GLU:H	2.11	0.58
1:A:251:GLU:O	1:A:254:LEU:HD11	2.04	0.58
1:A:286:LYS:NZ	1:A:822:LYS:HZ2	2.02	0.58
1:A:103:LEU:HB2	1:A:960:VAL:CG2	2.34	0.58
1:A:554:THR:OG1	1:A:562:GLU:HG3	2.04	0.58
1:B:314:THR:O	1:B:318:ILE:HG22	2.03	0.58
1:B:703:GLU:HB3	1:B:780:LEU:HD23	1.84	0.58
1:B:158:TRP:HZ2	1:B:900:PHE:HB2	1.66	0.58
1:B:1176:GLN:O	1:B:1180:ILE:HG13	2.04	0.58
1:B:992:PRO:HB2	1:B:996:LYS:HZ3	1.67	0.58
1:B:1081:ARG:NH2	1:B:1098:LYS:O	2.37	0.58
1:A:1221:ARG:N	1:A:1221:ARG:HD2	2.19	0.58
1:B:1062:LEU:HD12	1:B:1224:ILE:HG23	1.85	0.58
1:B:199:GLY:O	1:B:203:GLY:HA3	2.04	0.58
1:B:970:VAL:HA	1:B:973:VAL:HG23	1.86	0.58
1:A:212:LEU:O	1:A:215:LEU:N	2.37	0.58
1:A:722:PRO:HG2	1:A:841:THR:HB	1.85	0.58
1:A:847:LEU:C	1:A:849:TYR:H	2.05	0.58
1:B:186:ILE:HG13	1:B:187:GLY:H	1.69	0.58
1:B:56:ALA:O	1:B:59:ILE:HG13	2.04	0.58
1:A:1012:PRO:O	1:A:1013:GLU:CB	2.51	0.58
1:A:1141:ILE:O	1:A:1144:ALA:HB3	2.04	0.58
1:A:1195:LEU:N	1:A:1195:LEU:HD12	2.18	0.58
1:A:284:GLY:O	1:A:287:LYS:HB3	2.04	0.58
1:A:720:LEU:HD11	1:A:758:LEU:HA	1.85	0.58
1:B:374:PHE:HD1	1:B:376:LYS:H	1.50	0.58
1:B:594:ILE:O	1:B:605:GLN:HA	2.04	0.58
1:B:491:VAL:HG21	1:B:496:ILE:CD1	2.33	0.58
1:A:780:LEU:O	1:A:784:LEU:HB2	2.04	0.58
1:B:1049:LEU:CD1	1:B:1052:LEU:HD22	2.33	0.58
1:A:603:VAL:HG23	1:A:604:GLU:N	2.15	0.58
1:B:118:GLY:O	1:B:119:ALA:C	2.42	0.57
1:B:279:GLU:O	1:B:282:ARG:HB2	2.04	0.57
1:B:298:ALA:O	1:B:302:ILE:HG13	2.04	0.57
1:B:978:VAL:CG2	2:B:6003:2J8:H29	2.34	0.57
1:A:856:LEU:HD21	1:A:952:CYS:HA	1.86	0.57
1:B:59:ILE:HG12	1:B:124:VAL:HG11	1.86	0.57
1:A:59:ILE:HG12	1:A:124:VAL:HG11	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:900:PHE:O	1:A:903:VAL:HG12	2.04	0.57
1:B:603:VAL:CG2	1:B:604:GLU:H	2.08	0.57
1:A:497:GLU:O	1:A:500:VAL:HG22	2.04	0.57
1:B:849:TYR:HD1	1:B:854:THR:CA	2.16	0.57
1:A:313:GLY:O	1:A:317:VAL:HG23	2.04	0.57
1:A:970:VAL:HA	1:A:973:VAL:HG23	1.85	0.57
1:B:158:TRP:HA	1:B:162:HIS:CD2	2.33	0.57
1:A:1009:GLU:C	1:A:1010:LYS:HG3	2.23	0.57
1:A:401:LYS:HD2	1:A:401:LYS:N	2.16	0.57
1:A:1185:ALA:O	1:A:1190:PRO:HD3	2.04	0.57
1:B:209:LYS:C	1:B:212:LEU:HB3	2.25	0.57
1:B:921:GLN:HG2	1:B:922:ILE:HD12	1.86	0.57
1:A:790:LYS:HB3	1:A:794:ARG:CZ	2.34	0.57
1:A:813:ARG:HA	1:A:817:ASP:OD2	2.03	0.57
1:A:827:SER:HG	1:A:994:TYR:HD2	1.52	0.57
1:B:1141:ILE:O	1:B:1144:ALA:HB3	2.05	0.57
1:B:388:LEU:N	1:B:388:LEU:HD12	2.18	0.57
1:B:883:LYS:HA	1:B:886:LEU:CG	2.33	0.57
1:B:611:LEU:HD23	1:B:618:TYR:CB	2.34	0.57
1:B:371:ILE:C	1:B:373:SER:H	2.08	0.57
1:B:837:ALA:HB1	1:B:982:MET:CE	2.34	0.57
1:A:210:LEU:HG	1:A:322:TYR:HD2	1.67	0.57
1:B:1032:GLN:HB2	1:B:1091:PHE:HB2	1.86	0.57
1:B:1109:LEU:HD21	1:B:1188:ARG:HH11	1.68	0.57
1:B:1137:SER:HB3	1:B:1140:GLU:HB2	1.85	0.57
1:B:263:PHE:HD1	1:B:1188:ARG:HH22	1.52	0.57
1:A:1049:LEU:CD1	1:A:1052:LEU:HD22	2.33	0.57
1:B:251:GLU:O	1:B:254:LEU:HD11	2.03	0.57
1:A:425:SER:HB3	1:A:599:GLY:HA3	1.86	0.57
1:B:497:GLU:O	1:B:500:VAL:HG22	2.04	0.57
1:B:788:VAL:O	1:B:791:SER:N	2.38	0.57
1:A:861:VAL:HB	1:A:862:PRO:HD3	1.86	0.57
1:B:175:VAL:HA	1:B:178:ILE:HD12	1.87	0.57
1:A:1127:ILE:O	1:A:1129:TYR:N	2.34	0.57
1:B:826:GLY:O	1:B:829:LEU:HB2	2.05	0.57
1:B:693:PHE:CD2	1:B:693:PHE:N	2.71	0.57
1:B:721:GLN:HG3	1:B:979:PHE:HE1	1.67	0.57
1:B:722:PRO:CG	1:B:841:THR:HB	2.34	0.57
1:B:731:VAL:HG22	1:B:750:LEU:CB	2.35	0.57
1:B:797:VAL:HG12	1:B:798:SER:N	2.14	0.57
1:A:186:ILE:HG13	1:A:187:GLY:N	2.20	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:53:GLY:O	1:A:56:ALA:HB3	2.04	0.57
1:B:921:GLN:HG2	1:B:922:ILE:N	2.20	0.57
1:A:1072:LYS:HB3	1:A:1226:ILE:HD13	1.87	0.57
1:A:611:LEU:HD23	1:A:618:TYR:CB	2.34	0.57
1:A:1133:SER:O	1:A:1135:VAL:N	2.37	0.57
1:B:215:LEU:C	1:B:219:PRO:HD2	2.25	0.57
1:B:324:ILE:C	1:B:326:GLN:N	2.56	0.57
1:B:765:THR:HG23	1:B:766:PHE:N	2.19	0.57
1:A:144:ARG:HH12	1:A:175:VAL:HG11	1.70	0.57
1:A:175:VAL:HA	1:A:178:ILE:HD12	1.86	0.57
1:B:1149:ASN:OD1	1:B:1209:VAL:HG22	2.05	0.57
1:B:1151:HIS:HA	1:B:1154:ILE:HG13	1.85	0.57
1:B:314:THR:O	1:B:315:SER:C	2.43	0.57
1:B:132:TRP:CD2	1:B:183:GLY:HA3	2.40	0.57
1:B:41:TYR:O	1:B:42:ALA:HB3	2.05	0.57
1:A:1092:LEU:HD13	1:A:1100:LEU:CD2	2.34	0.57
1:B:1014:ILE:HA	1:B:1102:VAL:HG11	1.87	0.57
1:B:756:LEU:CD1	1:B:757:ILE:HG12	2.35	0.57
1:A:324:ILE:C	1:A:326:GLN:N	2.56	0.57
1:B:178:ILE:HG12	1:B:358:ALA:HB1	1.85	0.57
1:A:371:ILE:O	1:A:371:ILE:HG22	2.05	0.57
1:A:56:ALA:O	1:A:59:ILE:HG13	2.04	0.57
1:B:457:ILE:HD11	1:B:462:LEU:HD13	1.87	0.57
1:A:238:LYS:O	1:A:238:LYS:HD3	2.03	0.57
1:A:583:HIS:O	1:A:585:LEU:HD22	2.04	0.57
1:A:612:MET:HA	1:A:619:PHE:HB2	1.86	0.57
1:B:43:GLY:CA	1:B:46:ASP:HB2	2.35	0.57
1:A:1170:THR:HG22	1:A:1170:THR:O	2.04	0.57
1:B:621:LEU:HD22	1:B:621:LEU:H	1.70	0.57
1:B:118:GLY:O	1:B:121:VAL:N	2.37	0.57
1:B:324:ILE:HG13	1:B:326:GLN:CA	2.35	0.57
1:B:64:LEU:HD11	1:B:945:MET:CE	2.35	0.57
1:A:853:LEU:O	1:A:854:THR:C	2.44	0.57
1:B:470:SER:HA	1:B:551:ASP:HB3	1.85	0.57
1:A:1137:SER:HB3	1:A:1140:GLU:HB2	1.85	0.57
1:A:1179:ARG:HH21	1:A:1209:VAL:CG1	2.13	0.57
1:A:765:THR:HG23	1:A:766:PHE:N	2.20	0.57
1:B:1142:VAL:HA	1:B:1161:TYR:OH	2.05	0.57
1:B:801:ASP:HB3	1:B:1083:TYR:CE2	2.40	0.57
1:B:1208:LYS:C	1:B:1208:LYS:HD3	2.25	0.57
1:B:322:TYR:CE2	1:B:324:ILE:CD1	2.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:186:ILE:HG13	1:B:187:GLY:N	2.20	0.56
1:A:157:GLY:HA2	1:A:160:ASP:OD2	2.05	0.56
1:A:178:ILE:HG12	1:A:358:ALA:HB1	1.84	0.56
1:A:457:ILE:HD11	1:A:462:LEU:HD13	1.87	0.56
1:A:806:THR:HG23	1:A:809:ALA:H	1.70	0.56
1:B:1129:TYR:O	1:B:1131:ASP:N	2.37	0.56
1:A:621:LEU:H	1:A:621:LEU:HD22	1.70	0.56
1:B:752:SER:O	1:B:755:PHE:HB3	2.05	0.56
1:B:777:GLY:CA	1:B:822:LYS:HG3	2.35	0.56
1:B:57:ALA:O	1:B:60:HIS:N	2.38	0.56
1:A:490:ASP:O	1:A:491:VAL:HB	2.05	0.56
1:B:541:LEU:O	1:B:541:LEU:HD13	2.04	0.56
1:A:992:PRO:O	1:A:994:TYR:N	2.37	0.56
1:A:1063:ALA:HB3	1:A:1239:ILE:CA	2.25	0.56
1:B:388:LEU:HB2	1:B:413:VAL:CG1	2.35	0.56
1:B:421:LEU:HD11	1:B:579:ILE:HD11	1.87	0.56
1:B:612:MET:HA	1:B:619:PHE:HB2	1.87	0.56
1:B:1011:THR:N	1:B:1012:PRO:HD2	2.01	0.56
1:B:203:GLY:C	1:B:211:THR:OG1	2.43	0.56
1:B:212:LEU:CD1	1:B:215:LEU:HD12	2.34	0.56
1:B:284:GLY:O	1:B:287:LYS:HB3	2.05	0.56
1:B:790:LYS:HB3	1:B:794:ARG:CZ	2.34	0.56
1:A:731:VAL:HG22	1:A:750:LEU:CB	2.34	0.56
1:A:837:ALA:HB1	1:A:982:MET:CE	2.36	0.56
1:B:358:ALA:O	1:B:362:PHE:CB	2.54	0.56
1:A:128:GLN:HG3	1:A:129:VAL:N	2.19	0.56
1:B:900:PHE:O	1:B:902:THR:N	2.26	0.56
1:A:473:PRO:HB3	1:A:533:GLN:HA	1.87	0.56
1:B:379:HIS:HD2	1:B:380:LYS:H	1.53	0.56
1:A:1129:TYR:O	1:A:1131:ASP:N	2.39	0.56
1:A:265:GLY:C	1:A:267:LYS:HG3	2.26	0.56
1:A:278:GLU:HA	1:A:282:ARG:CZ	2.35	0.56
1:B:1092:LEU:HD13	1:B:1100:LEU:CD2	2.34	0.56
1:B:825:THR:O	1:B:829:LEU:HG	2.05	0.56
1:A:1139:GLU:CD	1:A:1139:GLU:H	2.09	0.56
1:B:1099:GLN:HG2	1:B:1099:GLN:O	2.05	0.56
1:B:265:GLY:C	1:B:267:LYS:HG3	2.26	0.56
1:A:317:VAL:HG12	1:A:317:VAL:O	2.05	0.56
1:A:132:TRP:CD2	1:A:183:GLY:HA3	2.41	0.56
1:A:902:THR:O	1:A:905:SER:N	2.35	0.56
1:A:270:LEU:HD13	1:A:789:PHE:CZ	2.41	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:279:GLU:HG2	1:A:782:LYS:HZ2	1.69	0.56
1:A:706:TYR:CD1	1:A:706:TYR:C	2.78	0.56
1:B:611:LEU:HB3	1:B:618:TYR:HB3	1.88	0.56
1:B:282:ARG:HB3	1:B:778:GLU:OE1	2.06	0.56
1:A:199:GLY:O	1:A:203:GLY:HA3	2.05	0.56
1:B:129:VAL:HB	1:B:935:GLY:HA2	1.88	0.56
1:B:158:TRP:HE1	1:B:900:PHE:HB3	1.69	0.56
1:A:1149:ASN:OD1	1:A:1209:VAL:HG22	2.05	0.56
1:A:1214:LEU:HD23	1:A:1218:ARG:HD3	1.87	0.56
1:A:267:LYS:CA	1:A:270:LEU:HD21	2.36	0.56
1:A:964:LEU:CD1	1:A:965:MET:H	2.16	0.56
1:B:1185:ALA:O	1:B:1190:PRO:HD3	2.04	0.56
1:B:101:ALA:O	1:B:105:GLU:HB2	2.04	0.56
1:B:217:ILE:O	1:B:221:LEU:HG	2.05	0.56
1:B:779:ILE:HG13	1:B:780:LEU:N	2.20	0.56
1:A:212:LEU:CD1	1:A:215:LEU:HD12	2.35	0.56
1:B:1072:LYS:HB3	1:B:1226:ILE:HD13	1.87	0.56
1:B:1140:GLU:O	1:B:1143:ARG:HB3	2.06	0.56
1:B:253:VAL:C	1:B:254:LEU:HD13	2.26	0.56
1:B:425:SER:HB3	1:B:599:GLY:HA3	1.87	0.56
1:B:278:GLU:HA	1:B:282:ARG:CZ	2.36	0.56
1:A:731:VAL:HA	1:A:750:LEU:HD13	1.87	0.56
1:A:185:LYS:O	1:A:186:ILE:C	2.44	0.56
1:B:383:ASN:O	1:B:384:ILE:C	2.44	0.56
1:B:1214:LEU:HD23	1:B:1218:ARG:HD3	1.87	0.56
1:B:1120:ASP:HA	1:B:1165:VAL:HG22	1.87	0.56
1:A:752:SER:O	1:A:755:PHE:HB3	2.06	0.56
1:B:861:VAL:HB	1:B:862:PRO:HD3	1.87	0.56
1:A:253:VAL:C	1:A:254:LEU:HD13	2.27	0.56
1:A:777:GLY:CA	1:A:822:LYS:HG3	2.35	0.56
1:B:1239:ILE:N	1:B:1239:ILE:HD12	2.20	0.56
1:B:1027:LEU:HD23	1:B:1028:GLU:H	1.71	0.56
1:A:238:LYS:C	1:A:238:LYS:HD3	2.26	0.56
1:B:1139:GLU:H	1:B:1139:GLU:CD	2.09	0.56
1:B:962:GLN:O	1:B:963:GLN:HB2	2.06	0.56
1:B:306:TYR:CD2	1:B:307:ALA:N	2.74	0.56
1:A:153:ASN:HA	1:A:155:GLU:OE2	2.06	0.56
1:B:406:LEU:HD23	1:B:431:THR:HG21	1.86	0.56
1:B:490:ASP:O	1:B:491:VAL:HB	2.05	0.56
1:A:1124:ALA:HB2	1:A:1161:TYR:O	2.06	0.56
1:A:779:ILE:HG13	1:A:780:LEU:N	2.20	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:214:ILE:HG12	1:B:331:PHE:CZ	2.40	0.56
1:B:311:TRP:HA	1:B:311:TRP:HE3	1.71	0.56
1:A:204:PHE:HA	1:A:211:THR:CG2	2.34	0.56
1:A:857:LEU:CD1	1:A:976:ALA:HB3	2.36	0.56
1:A:358:ALA:O	1:A:362:PHE:CB	2.54	0.56
1:B:894:THR:O	1:B:895:GLU:C	2.45	0.56
1:A:1142:VAL:HA	1:A:1161:TYR:OH	2.06	0.56
1:B:1172:LEU:HD22	1:B:1176:GLN:HG2	1.88	0.56
1:B:1166:GLY:HA3	1:B:1171:GLN:OE1	2.05	0.56
1:A:101:ALA:O	1:A:105:GLU:HB2	2.06	0.56
1:B:121:VAL:CG2	1:B:122:LEU:N	2.69	0.55
1:A:749:ASN:HD22	1:A:749:ASN:C	2.10	0.55
1:A:862:PRO:O	1:A:866:ILE:HG12	2.06	0.55
1:A:482:GLU:O	1:A:483:ASN:C	2.45	0.55
1:A:421:LEU:HD11	1:A:579:ILE:HD11	1.88	0.55
1:B:959:LEU:HD13	1:B:964:LEU:HG	1.88	0.55
1:A:138:ARG:HH22	1:B:515:GLN:HE21	1.53	0.55
1:B:1170:THR:HG22	1:B:1170:THR:O	2.06	0.55
1:B:67:MET:CE	1:B:117:ILE:HG21	2.34	0.55
1:B:207:GLY:CA	1:B:211:THR:H	2.19	0.55
1:B:72:GLY:HA2	1:B:326:GLN:HE21	1.68	0.55
1:A:328:LEU:C	1:A:328:LEU:HD12	2.26	0.55
1:B:128:GLN:HG3	1:B:129:VAL:N	2.21	0.55
1:B:345:SER:HB3	1:B:346:PRO:HD3	1.86	0.55
1:B:429:LYS:CD	1:B:429:LYS:H	2.07	0.55
1:A:1099:GLN:HG2	1:A:1099:GLN:O	2.06	0.55
1:A:1120:ASP:HA	1:A:1165:VAL:HG22	1.86	0.55
1:A:288:ALA:CA	1:A:291:ALA:HB3	2.36	0.55
1:A:288:ALA:HA	1:A:291:ALA:CB	2.37	0.55
1:A:825:THR:O	1:A:829:LEU:HG	2.06	0.55
1:A:43:GLY:CA	1:A:46:ASP:HB2	2.37	0.55
1:A:1207:GLU:O	1:A:1211:GLN:HG2	2.06	0.55
1:B:201:ILE:HG22	1:B:202:ILE:N	2.21	0.55
1:B:845:ILE:HA	1:B:848:ILE:CG2	2.36	0.55
1:A:322:TYR:CE2	1:A:324:ILE:CD1	2.89	0.55
1:A:858:LEU:C	1:A:858:LEU:HD12	2.26	0.55
1:B:188:MET:HG3	1:B:348:ILE:CD1	2.35	0.55
1:A:906:LEU:HD23	1:A:906:LEU:O	2.05	0.55
1:A:1145:ALA:HB1	1:A:1154:ILE:HD12	1.88	0.55
1:A:788:VAL:O	1:A:791:SER:N	2.40	0.55
1:A:449:ILE:O	1:A:450:ASP:C	2.45	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:470:SER:HA	1:A:551:ASP:HB3	1.89	0.55
1:A:899:ASN:OD1	1:A:901:ARG:NH2	2.39	0.55
1:B:459:VAL:O	1:B:462:LEU:HB3	2.06	0.55
1:A:1199:THR:HG21	1:A:1210:VAL:HG11	1.88	0.55
1:A:1193:LEU:HB2	1:A:1223:CYS:HB2	1.88	0.55
1:A:306:TYR:CD2	1:A:307:ALA:N	2.74	0.55
1:B:144:ARG:HH12	1:B:175:VAL:HG11	1.70	0.55
1:B:59:ILE:HG13	1:B:60:HIS:N	2.22	0.55
1:A:133:CYS:O	1:A:135:ALA:N	2.39	0.55
1:A:188:MET:HG3	1:A:348:ILE:CD1	2.35	0.55
1:A:388:LEU:HB2	1:A:413:VAL:CG1	2.35	0.55
1:A:484:ILE:HG21	1:A:496:ILE:CD1	2.32	0.55
1:A:541:LEU:HD13	1:A:541:LEU:O	2.06	0.55
1:A:921:GLN:HG2	1:A:922:ILE:N	2.21	0.55
1:A:817:ASP:OD1	1:A:1000:SER:HB3	2.07	0.55
1:A:1032:GLN:HB2	1:A:1091:PHE:HB2	1.87	0.55
1:A:1137:SER:O	1:A:1141:ILE:HG23	2.06	0.55
1:A:239:GLU:HG3	1:A:288:ALA:HB3	1.89	0.55
1:B:1145:ALA:HB2	1:B:1154:ILE:HD12	1.88	0.55
1:B:106:GLU:HG3	1:B:110:TYR:CE2	2.42	0.55
1:B:154:GLN:HE21	1:B:157:GLY:HA3	1.71	0.55
1:B:902:THR:O	1:B:905:SER:N	2.36	0.55
1:B:238:LYS:C	1:B:238:LYS:HD3	2.27	0.55
1:B:211:THR:HA	1:B:214:ILE:CD1	2.37	0.55
1:B:311:TRP:HA	1:B:311:TRP:CE3	2.42	0.55
1:B:708:VAL:HG13	1:B:709:VAL:N	2.21	0.55
1:A:201:ILE:HG22	1:A:202:ILE:N	2.20	0.55
1:A:379:HIS:O	1:A:381:PRO:HD3	2.07	0.55
1:A:461:TYR:O	1:A:465:ILE:HG12	2.06	0.55
1:A:1018:SER:O	1:A:1101:ASN:CB	2.46	0.55
1:B:1229:ARG:C	1:B:1231:SER:N	2.59	0.55
1:A:214:ILE:CD1	1:A:330:VAL:HB	2.37	0.55
1:B:899:ASN:OD1	1:B:901:ARG:NH2	2.39	0.55
1:A:1229:ARG:C	1:A:1231:SER:N	2.59	0.55
1:B:1056:VAL:CG2	1:B:1062:LEU:HB2	2.37	0.55
1:B:713:CYS:SG	1:B:768:LEU:HD11	2.47	0.55
1:B:847:LEU:C	1:B:849:TYR:N	2.60	0.55
1:B:849:TYR:CB	1:B:854:THR:OG1	2.55	0.55
1:A:67:MET:CE	1:A:117:ILE:HG21	2.34	0.55
1:A:121:VAL:CG2	1:A:122:LEU:N	2.70	0.55
1:A:731:VAL:HA	1:A:750:LEU:CD1	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:409:LEU:HD21	1:B:602:ILE:HB	1.88	0.55
1:B:902:THR:HG23	1:B:903:VAL:H	1.72	0.55
1:B:543:ARG:NH2	1:B:905:SER:O	2.40	0.55
1:A:1172:LEU:HD22	1:A:1176:GLN:HG2	1.89	0.55
1:B:328:LEU:O	1:B:332:PHE:HB3	2.07	0.55
1:B:722:PRO:HG2	1:B:841:THR:HB	1.87	0.55
1:B:862:PRO:O	1:B:866:ILE:HG12	2.07	0.55
1:A:856:LEU:O	1:A:859:ALA:HB3	2.07	0.55
1:B:688:VAL:O	1:B:688:VAL:HG23	2.06	0.55
1:B:992:PRO:C	1:B:994:TYR:H	2.11	0.55
1:A:1059:GLY:HA2	1:A:1221:ARG:C	2.27	0.55
1:A:546:LYS:O	1:A:577:THR:HG23	2.06	0.55
1:B:566:GLN:HA	1:B:569:LEU:HD12	1.89	0.55
1:A:311:TRP:HA	1:A:311:TRP:CE3	2.42	0.55
1:B:727:ILE:HD12	1:B:754:LEU:CA	2.37	0.54
1:B:858:LEU:HD12	1:B:858:LEU:C	2.27	0.54
1:B:171:LEU:HD13	1:B:172:THR:N	2.21	0.54
1:A:33:VAL:O	1:A:34:SER:C	2.45	0.54
1:A:35:VAL:HG12	1:A:359:TYR:CZ	2.42	0.54
1:A:374:PHE:HE2	1:A:376:LYS:CB	2.20	0.54
1:A:930:LYS:O	1:A:933:VAL:HB	2.07	0.54
1:A:286:LYS:HE3	1:A:822:LYS:NZ	2.22	0.54
1:A:994:TYR:O	1:A:994:TYR:HD1	1.90	0.54
1:A:245:LYS:NZ	1:A:245:LYS:HA	2.21	0.54
1:B:70:ILE:O	1:B:71:PHE:C	2.46	0.54
1:A:215:LEU:C	1:A:219:PRO:HD2	2.27	0.54
1:A:837:ALA:HB1	1:A:982:MET:HE1	1.89	0.54
1:A:171:LEU:HD13	1:A:172:THR:N	2.21	0.54
1:A:182:ILE:O	1:A:185:LYS:HB3	2.06	0.54
1:A:548:LEU:HD22	1:A:550:LEU:CD1	2.38	0.54
1:B:548:LEU:HD22	1:B:550:LEU:CD1	2.37	0.54
1:A:801:ASP:HB3	1:A:1083:TYR:CZ	2.42	0.54
1:A:1239:ILE:N	1:A:1239:ILE:HD12	2.22	0.54
1:B:1092:LEU:HD23	1:B:1093:ASP:H	1.72	0.54
1:A:1037:VAL:HG23	1:A:1037:VAL:O	2.08	0.54
1:B:86:LYS:HE2	1:B:739:GLY:HA2	1.89	0.54
1:B:1199:THR:HG21	1:B:1210:VAL:HG11	1.89	0.54
1:B:731:VAL:HA	1:B:750:LEU:HD13	1.89	0.54
1:A:722:PRO:HA	1:A:979:PHE:HZ	1.72	0.54
1:B:157:GLY:HA2	1:B:160:ASP:OD2	2.07	0.54
1:B:129:VAL:CB	1:B:935:GLY:HA2	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:VAL:HG13	1:A:454:ILE:HG21	1.90	0.54
1:A:702:THR:C	1:A:704:TRP:H	2.11	0.54
1:A:708:VAL:HG13	1:A:709:VAL:N	2.22	0.54
1:A:812:THR:HG22	1:A:816:ASN:ND2	2.19	0.54
1:A:106:GLU:HG3	1:A:110:TYR:CE2	2.42	0.54
1:A:961:THR:O	1:A:962:GLN:HB3	2.08	0.54
1:B:207:GLY:C	1:B:209:LYS:H	2.11	0.54
1:A:217:ILE:O	1:A:221:LEU:HG	2.08	0.54
1:A:478:THR:HG22	1:A:479:THR:N	2.17	0.54
1:B:905:SER:HB2	1:B:908:ARG:NH1	2.21	0.54
1:A:254:LEU:HD23	1:A:811:THR:CG2	2.38	0.54
1:A:282:ARG:HH11	1:A:282:ARG:N	2.04	0.54
1:A:811:THR:CA	1:A:814:LEU:HD23	2.37	0.54
1:B:1204:THR:HG23	1:B:1205:GLU:N	2.21	0.54
1:B:328:LEU:C	1:B:328:LEU:HD12	2.28	0.54
1:A:118:GLY:O	1:A:121:VAL:N	2.40	0.54
1:A:211:THR:HA	1:A:214:ILE:CD1	2.37	0.54
1:A:215:LEU:O	1:A:219:PRO:CD	2.56	0.54
1:B:159:PHE:O	1:B:160:ASP:C	2.46	0.54
1:B:39:PHE:CD2	1:B:355:ARG:HA	2.42	0.54
1:A:434:GLN:O	1:A:436:MET:N	2.41	0.54
1:B:905:SER:O	1:B:907:THR:N	2.39	0.54
1:B:1064:LEU:HD12	1:B:1226:ILE:HB	1.90	0.54
1:A:110:TYR:HA	1:A:113:TYR:CD2	2.34	0.54
1:A:328:LEU:O	1:A:332:PHE:HB3	2.08	0.54
1:B:171:LEU:O	1:B:175:VAL:HG12	2.08	0.54
1:B:447:VAL:HG13	1:B:454:ILE:HG21	1.88	0.54
1:A:777:GLY:HA2	1:A:822:LYS:HG3	1.90	0.54
1:A:1052:LEU:HG	1:A:1053:SER:N	2.22	0.54
1:A:45:LEU:HD22	1:A:45:LEU:N	2.22	0.54
1:B:1246:LYS:H	1:B:1246:LYS:HD2	1.72	0.54
1:A:311:TRP:HE3	1:A:311:TRP:HA	1.71	0.54
1:B:215:LEU:CA	1:B:219:PRO:HD2	2.38	0.54
1:B:853:LEU:O	1:B:854:THR:C	2.45	0.54
1:A:315:SER:CA	1:A:747:ASN:HD22	2.21	0.54
1:B:129:VAL:HG11	1:B:935:GLY:N	2.22	0.54
1:B:35:VAL:HG12	1:B:359:TYR:CZ	2.42	0.54
1:A:921:GLN:HG2	1:A:922:ILE:CD1	2.37	0.54
1:A:291:ALA:HA	1:A:294:SER:CB	2.37	0.54
1:A:703:GLU:HG2	1:A:784:LEU:HD21	1.90	0.54
1:A:827:SER:O	1:A:831:VAL:HG23	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:138:ARG:HH22	1:B:515:GLN:NE2	2.06	0.54
1:B:1193:LEU:HB2	1:B:1223:CYS:HB2	1.90	0.54
1:A:507:ASP:O	1:A:510:MET:N	2.39	0.54
1:B:288:ALA:HA	1:B:291:ALA:CB	2.38	0.54
1:B:706:TYR:C	1:B:706:TYR:CD1	2.80	0.54
1:B:731:VAL:HA	1:B:750:LEU:CD1	2.38	0.54
1:B:749:ASN:O	1:B:750:LEU:C	2.45	0.54
1:B:730:LYS:HG2	1:B:750:LEU:HD22	1.90	0.54
1:A:315:SER:CB	1:A:747:ASN:HD22	2.21	0.54
1:A:69:LEU:O	1:A:72:GLY:N	2.40	0.54
1:A:39:PHE:CD2	1:A:355:ARG:HA	2.42	0.54
1:B:893:ALA:O	1:B:897:ILE:HG12	2.07	0.54
1:B:921:GLN:HG2	1:B:922:ILE:CD1	2.38	0.54
1:B:1214:LEU:HD23	1:B:1214:LEU:O	2.08	0.54
1:B:1207:GLU:O	1:B:1211:GLN:HG2	2.08	0.54
1:B:812:THR:HG22	1:B:816:ASN:ND2	2.19	0.54
1:B:352:ALA:O	1:B:355:ARG:HB3	2.08	0.54
1:A:1166:GLY:HA3	1:A:1171:GLN:OE1	2.07	0.54
1:A:686:GLU:H	1:A:686:GLU:CD	2.11	0.54
1:B:992:PRO:HB2	1:B:996:LYS:CE	2.38	0.54
1:B:1202:LEU:CG	1:B:1203:ASP:H	2.12	0.54
1:B:1059:GLY:HA2	1:B:1221:ARG:C	2.28	0.54
1:B:1193:LEU:HD11	1:B:1217:ALA:O	2.08	0.54
1:A:1050:GLN:HG2	1:A:1245:GLY:HA3	1.89	0.54
1:B:741:PRO:O	1:B:742:GLU:HB2	2.07	0.54
1:B:749:ASN:C	1:B:749:ASN:HD22	2.11	0.54
1:B:843:ILE:HA	1:B:846:SER:HB2	1.90	0.54
1:B:722:PRO:HA	1:B:979:PHE:HZ	1.73	0.54
1:B:133:CYS:O	1:B:135:ALA:N	2.41	0.54
1:B:182:ILE:O	1:B:185:LYS:HB3	2.07	0.54
1:A:936:ILE:HG23	1:A:937:THR:N	2.23	0.54
1:B:906:LEU:HD23	1:B:906:LEU:O	2.08	0.54
1:A:1056:VAL:CG2	1:A:1062:LEU:HB2	2.37	0.54
1:A:962:GLN:O	1:A:963:GLN:HB2	2.06	0.54
1:B:546:LYS:O	1:B:577:THR:HG23	2.08	0.54
1:B:817:ASP:OD1	1:B:1000:SER:HB3	2.08	0.53
1:B:214:ILE:HG12	1:B:331:PHE:CE1	2.43	0.53
1:B:285:ILE:CG2	1:B:286:LYS:HD2	2.38	0.53
1:B:239:GLU:HG3	1:B:288:ALA:HB3	1.88	0.53
1:B:765:THR:O	1:B:768:LEU:HG	2.08	0.53
1:B:703:GLU:HG2	1:B:784:LEU:HD21	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:479:THR:HA	1:B:518:THR:O	2.08	0.53
1:A:1023:LYS:HG3	1:A:1026:MET:CG	2.38	0.53
1:A:713:CYS:SG	1:A:768:LEU:HD11	2.47	0.53
1:A:992:PRO:HB2	1:A:996:LYS:CE	2.38	0.53
1:B:827:SER:HG	1:B:994:TYR:HD2	1.56	0.53
1:B:419:VAL:CG2	1:B:593:VAL:HG13	2.38	0.53
1:B:695:ARG:HD3	1:B:699:LEU:HD23	1.90	0.53
1:B:729:SER:HA	1:B:971:LEU:HB3	1.90	0.53
1:A:318:ILE:HG13	1:A:735:PHE:CZ	2.43	0.53
1:A:188:MET:HG3	1:A:348:ILE:HD13	1.90	0.53
1:A:429:LYS:HB3	1:A:581:ILE:HD13	1.89	0.53
1:A:902:THR:HG23	1:A:903:VAL:H	1.72	0.53
1:B:505:ALA:O	1:B:509:ILE:HG23	2.08	0.53
1:B:561:SER:O	1:B:565:VAL:HG23	2.08	0.53
1:B:972:LEU:CD1	1:B:972:LEU:N	2.71	0.53
1:A:171:LEU:O	1:A:175:VAL:HG12	2.09	0.53
1:A:57:ALA:O	1:A:60:HIS:N	2.41	0.53
1:A:905:SER:HB2	1:A:908:ARG:NH1	2.23	0.53
1:A:921:GLN:OE1	1:B:479:THR:HG21	2.08	0.53
1:A:990:PHE:O	1:A:991:ALA:O	2.26	0.53
1:B:1261:GLY:H	1:B:1264:PHE:CB	2.12	0.53
1:A:519:LEU:HD11	1:B:925:ARG:HD3	1.88	0.53
1:B:282:ARG:N	1:B:282:ARG:HH11	2.06	0.53
1:A:846:SER:HA	1:A:849:TYR:CG	2.43	0.53
1:A:370:SER:O	1:A:371:ILE:HB	2.08	0.53
1:B:484:ILE:HG21	1:B:496:ILE:CD1	2.32	0.53
1:B:885:GLU:HB3	1:B:923:PRO:HG3	1.90	0.53
1:A:99:MET:HB3	1:A:960:VAL:O	2.07	0.53
1:A:422:VAL:HG22	1:A:595:ALA:O	2.08	0.53
1:B:290:THR:HG22	1:B:770:GLY:C	2.28	0.53
1:B:709:VAL:HG13	1:B:710:GLY:N	2.24	0.53
1:A:154:GLN:HE21	1:A:157:GLY:HA3	1.73	0.53
1:A:38:MET:O	1:A:41:TYR:HB3	2.08	0.53
1:A:1032:GLN:HE21	1:A:1055:GLU:HG3	1.71	0.53
1:A:1076:VAL:CG1	1:A:1194:LEU:HD13	2.39	0.53
1:B:696:ILE:O	1:B:700:ASN:HB2	2.08	0.53
1:A:422:VAL:O	1:A:597:PHE:HB2	2.08	0.53
1:B:1243:GLN:O	1:B:1244:ASN:C	2.47	0.53
1:B:248:ALA:C	1:B:250:ALA:H	2.11	0.53
1:B:215:LEU:HA	1:B:219:PRO:HD2	1.89	0.53
1:B:811:THR:CA	1:B:814:LEU:HD23	2.38	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:958:TYR:O	1:B:966:THR:OG1	2.21	0.53
1:B:131:PHE:CD2	1:B:131:PHE:C	2.81	0.53
1:A:184:ASP:O	1:A:187:GLY:N	2.41	0.53
1:A:1064:LEU:HB3	1:A:1226:ILE:HG22	1.91	0.53
1:A:1014:ILE:HB	1:A:1102:VAL:HG21	1.91	0.53
1:B:374:PHE:CD1	1:B:375:SER:N	2.74	0.53
1:A:881:LYS:O	1:A:884:LYS:HB2	2.08	0.53
1:B:307:ALA:CB	1:B:754:LEU:HD22	2.39	0.53
1:B:324:ILE:HD11	1:B:327:VAL:HG13	1.90	0.53
1:B:846:SER:HA	1:B:849:TYR:CG	2.44	0.53
1:B:37:THR:O	1:B:38:MET:C	2.45	0.53
1:A:800:PHE:HA	1:A:803:PRO:HB3	1.90	0.53
1:A:696:ILE:O	1:A:700:ASN:HB2	2.09	0.53
1:B:1052:LEU:HG	1:B:1053:SER:N	2.23	0.53
1:B:827:SER:O	1:B:828:ARG:C	2.47	0.53
1:A:1204:THR:OG1	1:A:1205:GLU:N	2.42	0.53
1:B:692:SER:HB2	1:B:695:ARG:CB	2.39	0.53
1:B:45:LEU:HD22	1:B:45:LEU:N	2.23	0.53
1:B:969:ASN:O	1:B:972:LEU:N	2.40	0.53
1:A:68:MET:O	1:A:329:THR:HG23	2.08	0.53
1:B:936:ILE:HG23	1:B:937:THR:N	2.24	0.53
1:A:432:THR:O	1:A:433:VAL:C	2.48	0.53
1:B:381:PRO:HD2	1:B:461:TYR:CD2	2.44	0.53
1:A:795:GLN:HE21	1:A:796:ASP:H	1.56	0.53
1:B:1064:LEU:HB3	1:B:1226:ILE:HG22	1.90	0.53
1:B:1057:LYS:H	1:B:1057:LYS:HD2	1.73	0.53
1:B:684:LEU:N	1:B:684:LEU:HD23	2.23	0.53
1:B:881:LYS:HB2	1:B:881:LYS:NZ	2.24	0.53
1:B:217:ILE:HD11	1:B:331:PHE:CE2	2.44	0.53
1:B:69:LEU:O	1:B:72:GLY:N	2.42	0.53
1:A:730:LYS:HG2	1:A:750:LEU:HD22	1.90	0.53
1:A:741:PRO:O	1:A:742:GLU:HB2	2.09	0.53
1:A:749:ASN:O	1:A:750:LEU:C	2.47	0.53
1:A:1076:VAL:HG11	1:A:1111:ILE:HD13	1.90	0.53
1:B:1038:PHE:HB2	1:B:1085:PRO:HA	1.90	0.53
1:A:1234:GLN:HG2	1:A:1253:HIS:CD2	2.44	0.53
1:B:1179:ARG:HH21	1:B:1209:VAL:CG1	2.14	0.53
1:B:1260:LYS:CD	1:B:1260:LYS:H	2.20	0.53
1:B:297:ALA:HB1	1:B:763:PHE:CD2	2.43	0.53
1:A:203:GLY:O	1:A:215:LEU:HD21	2.08	0.53
1:A:215:LEU:CA	1:A:219:PRO:HD2	2.39	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:215:LEU:HA	1:A:219:PRO:HD2	1.91	0.53
1:A:978:VAL:O	1:A:981:ALA:HB3	2.08	0.53
1:B:153:ASN:HA	1:B:155:GLU:OE2	2.09	0.53
1:A:395:PHE:HB3	1:A:406:LEU:HB2	1.91	0.53
1:A:409:LEU:HD21	1:A:602:ILE:HB	1.89	0.53
1:A:1064:LEU:CD1	1:A:1072:LYS:HG2	2.39	0.53
1:A:267:LYS:HB3	1:A:790:LYS:NZ	2.24	0.53
1:A:308:LEU:HA	1:A:751:PHE:CD2	2.44	0.53
1:B:246:ALA:CB	1:B:277:LEU:HB3	2.38	0.53
1:B:881:LYS:O	1:B:884:LYS:HB2	2.09	0.53
1:B:722:PRO:HG3	1:B:979:PHE:CE1	2.44	0.52
1:A:223:LEU:O	1:A:227:ILE:HG13	2.09	0.52
1:A:722:PRO:HG3	1:A:979:PHE:CE1	2.44	0.52
1:A:385:GLN:HE21	1:A:386:GLY:N	2.06	0.52
1:A:899:ASN:O	1:A:902:THR:HG22	2.10	0.52
1:A:765:THR:O	1:A:768:LEU:HG	2.09	0.52
1:B:1032:GLN:HE21	1:B:1055:GLU:HG3	1.72	0.52
1:B:992:PRO:O	1:B:994:TYR:N	2.42	0.52
1:A:1199:THR:HG23	1:A:1210:VAL:HG11	1.90	0.52
1:A:1193:LEU:HD11	1:A:1217:ALA:O	2.08	0.52
1:B:245:LYS:HA	1:B:245:LYS:NZ	2.23	0.52
1:B:215:LEU:O	1:B:219:PRO:CD	2.55	0.52
1:B:288:ALA:CA	1:B:291:ALA:HB3	2.37	0.52
1:A:70:ILE:O	1:A:71:PHE:C	2.44	0.52
1:A:436:MET:HE3	1:A:454:ILE:HD12	1.90	0.52
1:A:1064:LEU:HD12	1:A:1226:ILE:HB	1.89	0.52
1:A:283:LEU:HD12	1:A:284:GLY:N	2.24	0.52
1:A:1246:LYS:HD2	1:A:1246:LYS:H	1.74	0.52
1:B:422:VAL:HG22	1:B:595:ALA:O	2.08	0.52
1:B:231:ILE:HG22	1:B:232:LEU:HD22	1.91	0.52
1:B:308:LEU:HD13	1:B:755:PHE:CE1	2.45	0.52
1:B:297:ALA:HB1	1:B:763:PHE:HA	1.90	0.52
1:A:324:ILE:HG12	1:A:326:GLN:H	1.74	0.52
1:A:729:SER:HA	1:A:971:LEU:HB3	1.90	0.52
1:A:972:LEU:N	1:A:972:LEU:CD1	2.72	0.52
1:A:157:GLY:HA2	1:A:160:ASP:CG	2.30	0.52
1:A:498:LYS:C	1:A:498:LYS:HD3	2.29	0.52
1:B:461:TYR:O	1:B:465:ILE:HG12	2.08	0.52
1:B:478:THR:HG22	1:B:479:THR:N	2.18	0.52
1:B:543:ARG:HH12	1:B:905:SER:HB3	1.73	0.52
1:B:824:ALA:O	1:B:828:ARG:HG2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1208:LYS:HD3	1:A:1208:LYS:C	2.29	0.52
1:B:1270:GLN:HG2	1:B:1271:ALA:N	2.25	0.52
1:A:566:GLN:HA	1:A:569:LEU:HD12	1.91	0.52
1:B:1118:LEU:HD12	1:B:1118:LEU:O	2.10	0.52
1:B:197:PHE:O	1:B:201:ILE:HG12	2.09	0.52
1:B:68:MET:CE	1:B:68:MET:HA	2.39	0.52
1:B:795:GLN:HE21	1:B:796:ASP:H	1.57	0.52
1:B:397:TYR:HB3	1:B:398:PRO:HD2	1.91	0.52
1:A:124:VAL:HG23	1:A:125:ALA:N	2.25	0.52
1:B:899:ASN:HA	1:B:901:ARG:NH1	2.25	0.52
1:A:693:PHE:C	1:A:695:ARG:H	2.11	0.52
1:B:1124:ALA:HB2	1:B:1161:TYR:O	2.09	0.52
1:B:1144:ALA:CA	1:B:1186:LEU:HD11	2.30	0.52
1:B:990:PHE:O	1:B:991:ALA:O	2.27	0.52
1:A:1206:SER:O	1:A:1210:VAL:HG23	2.10	0.52
1:A:45:LEU:H	1:A:45:LEU:CD2	2.22	0.52
1:B:780:LEU:O	1:B:784:LEU:HB2	2.09	0.52
1:A:709:VAL:HG13	1:A:710:GLY:N	2.24	0.52
1:A:1038:PHE:HB2	1:A:1085:PRO:HA	1.91	0.52
1:B:111:ALA:HA	1:B:114:TYR:HE1	1.73	0.52
1:A:1031:VAL:HB	1:A:1056:VAL:HG12	1.91	0.52
1:B:504:ASN:OD1	1:B:568:ALA:HB2	2.09	0.52
1:B:1050:GLN:HG2	1:B:1245:GLY:HA3	1.91	0.52
1:A:68:MET:HA	1:A:68:MET:CE	2.39	0.52
1:B:185:LYS:O	1:B:186:ILE:C	2.46	0.52
1:B:188:MET:HG3	1:B:348:ILE:HD13	1.90	0.52
1:A:434:GLN:O	1:A:435:LEU:C	2.46	0.52
1:A:480:ILE:O	1:A:481:ALA:C	2.47	0.52
1:A:523:ARG:CD	1:A:524:GLY:N	2.65	0.52
1:B:901:ARG:N	1:B:901:ARG:HD3	2.24	0.52
1:A:1032:GLN:O	1:A:1090:VAL:HA	2.10	0.52
1:B:1234:GLN:HG2	1:B:1253:HIS:CD2	2.44	0.52
1:B:1037:VAL:O	1:B:1037:VAL:HG23	2.08	0.52
1:B:1076:VAL:CG1	1:B:1194:LEU:HD13	2.39	0.52
1:A:504:ASN:OD1	1:A:568:ALA:HB2	2.10	0.52
1:B:318:ILE:CG1	1:B:325:GLY:H	2.22	0.52
1:B:712:PHE:O	1:B:715:ILE:N	2.42	0.52
1:A:207:GLY:C	1:A:209:LYS:H	2.13	0.52
1:B:167:LEU:HD23	1:B:167:LEU:C	2.30	0.52
1:A:182:ILE:O	1:A:185:LYS:HE3	2.10	0.52
1:A:791:SER:CA	1:A:1010:LYS:HE2	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1092:LEU:HD23	1:A:1093:ASP:H	1.74	0.52
1:A:1118:LEU:HD12	1:A:1118:LEU:O	2.10	0.52
1:A:769:GLN:HG3	1:A:773:PHE:CE2	2.43	0.52
1:B:1067:SER:O	1:B:1068:SER:HB2	2.09	0.52
1:A:594:ILE:O	1:A:605:GLN:HA	2.09	0.52
1:B:64:LEU:N	1:B:64:LEU:HD22	2.25	0.52
1:B:970:VAL:CG2	1:B:971:LEU:HD22	2.40	0.52
1:B:33:VAL:O	1:B:34:SER:C	2.47	0.52
1:A:362:PHE:O	1:A:365:ILE:HB	2.10	0.52
1:A:59:ILE:HG13	1:A:60:HIS:N	2.24	0.52
1:A:702:THR:HB	1:A:703:GLU:OE1	2.10	0.52
1:A:994:TYR:O	1:A:994:TYR:CD1	2.63	0.52
1:B:1064:LEU:CD1	1:B:1072:LYS:HG2	2.39	0.52
1:A:231:ILE:HG22	1:A:232:LEU:HD22	1.92	0.52
1:A:1202:LEU:HD21	1:A:1206:SER:CB	2.37	0.52
1:A:1267:VAL:HG13	1:A:1270:GLN:OE1	2.10	0.52
1:B:291:ALA:HA	1:B:294:SER:CB	2.38	0.52
1:B:336:ILE:HD12	2:B:6004:2J8:SE3	2.60	0.52
1:B:50:MET:HG3	1:B:131:PHE:CE2	2.45	0.52
1:A:37:THR:O	1:A:38:MET:C	2.48	0.52
1:A:419:VAL:CG2	1:A:593:VAL:HG13	2.38	0.52
1:B:480:ILE:O	1:B:481:ALA:C	2.47	0.52
1:A:697:LEU:C	1:A:697:LEU:HD12	2.30	0.52
1:B:111:ALA:HA	1:B:114:TYR:CE1	2.45	0.52
1:B:1076:VAL:HG11	1:B:1111:ILE:HD13	1.90	0.52
1:B:1057:LYS:N	1:B:1057:LYS:HD2	2.25	0.52
1:B:211:THR:HA	1:B:214:ILE:HD12	1.92	0.52
1:B:813:ARG:HD3	1:B:817:ASP:OD2	2.10	0.52
1:B:362:PHE:O	1:B:365:ILE:HB	2.10	0.52
1:B:38:MET:O	1:B:41:TYR:HB3	2.08	0.52
1:A:1140:GLU:O	1:A:1143:ARG:HB3	2.10	0.52
1:A:453:ASP:HB3	1:A:456:THR:CG2	2.40	0.52
1:A:397:TYR:HB3	1:A:398:PRO:HD2	1.92	0.52
1:A:1088:GLY:O	1:A:1089:SER:HB2	2.10	0.52
1:B:210:LEU:HD13	1:B:210:LEU:C	2.30	0.51
1:B:336:ILE:CD1	2:B:6004:2J8:SE3	3.09	0.51
1:A:212:LEU:O	1:A:213:VAL:C	2.48	0.51
1:A:843:ILE:HA	1:A:846:SER:HB2	1.92	0.51
1:B:48:LEU:O	1:B:49:TYR:C	2.46	0.51
1:A:131:PHE:CD2	1:A:131:PHE:C	2.82	0.51
1:A:50:MET:HG3	1:A:131:PHE:CE2	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:459:VAL:O	1:A:462:LEU:HB3	2.10	0.51
1:A:492:THR:C	1:A:494:ASP:N	2.63	0.51
1:A:540:ALA:O	1:A:543:ARG:CB	2.58	0.51
1:B:395:PHE:HB3	1:B:406:LEU:HB2	1.91	0.51
1:B:900:PHE:C	1:B:902:THR:N	2.63	0.51
1:A:1020:GLN:NE2	1:A:1022:LEU:N	2.58	0.51
1:A:1132:ASN:OD1	1:A:1134:ARG:HG2	2.10	0.51
1:A:263:PHE:HE1	1:A:1129:TYR:HB3	1.74	0.51
1:A:278:GLU:HA	1:A:282:ARG:NH2	2.24	0.51
1:A:813:ARG:HD3	1:A:817:ASP:OD2	2.11	0.51
1:A:686:GLU:CG	1:A:813:ARG:HH22	2.13	0.51
1:B:697:LEU:HD12	1:B:697:LEU:C	2.30	0.51
1:A:957:ALA:O	1:A:960:VAL:HG13	2.10	0.51
1:A:552:GLU:HB3	1:A:555:SER:OG	2.10	0.51
1:B:1267:VAL:HG13	1:B:1270:GLN:OE1	2.10	0.51
1:B:498:LYS:HD3	1:B:498:LYS:C	2.31	0.51
1:B:463:ARG:HG3	1:B:463:ARG:HH11	1.76	0.51
1:B:68:MET:O	1:B:329:THR:HG23	2.11	0.51
1:B:976:ALA:HA	1:B:979:PHE:HD2	1.75	0.51
1:A:203:GLY:C	1:A:211:THR:OG1	2.49	0.51
1:A:847:LEU:C	1:A:849:TYR:N	2.63	0.51
1:B:53:GLY:HA2	1:B:127:ILE:HG22	1.92	0.51
1:B:184:ASP:O	1:B:187:GLY:N	2.43	0.51
1:B:185:LYS:HZ2	1:B:186:ILE:CA	2.23	0.51
1:B:360:GLU:O	1:B:363:LYS:HB2	2.10	0.51
1:A:167:LEU:HD23	1:A:167:LEU:C	2.31	0.51
1:B:469:VAL:HG12	1:B:553:ALA:HB2	1.91	0.51
1:A:258:ARG:O	1:A:259:THR:C	2.49	0.51
1:B:1023:LYS:HB3	1:B:1026:MET:CG	2.38	0.51
1:A:1243:GLN:O	1:A:1244:ASN:C	2.48	0.51
1:B:702:THR:O	1:B:704:TRP:N	2.43	0.51
1:B:730:LYS:HG2	1:B:750:LEU:CD2	2.40	0.51
1:A:976:ALA:HA	1:A:979:PHE:HD2	1.74	0.51
1:B:125:ALA:O	1:B:128:GLN:HG2	2.11	0.51
1:B:57:ALA:O	1:B:58:ILE:C	2.49	0.51
1:A:156:ILE:HG23	1:A:439:LEU:HD12	1.91	0.51
1:B:384:ILE:CG2	1:B:385:GLN:N	2.72	0.51
1:B:551:ASP:HA	1:B:581:ILE:CG2	2.40	0.51
1:B:899:ASN:O	1:B:902:THR:HG22	2.11	0.51
1:B:905:SER:OG	1:B:908:ARG:NH2	2.43	0.51
1:A:1019:THR:HB	1:A:1099:GLN:O	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1101:ASN:O	1:A:1102:VAL:C	2.48	0.51
1:A:695:ARG:HD3	1:A:699:LEU:HD23	1.91	0.51
1:B:1154:ILE:CD1	1:B:1161:TYR:CE2	2.93	0.51
1:B:1173:SER:HB3	1:B:1176:GLN:NE2	2.25	0.51
1:B:106:GLU:HG3	1:B:110:TYR:CZ	2.45	0.51
1:B:212:LEU:O	1:B:213:VAL:C	2.49	0.51
1:B:232:LEU:HD22	1:B:232:LEU:N	2.26	0.51
1:B:282:ARG:HB3	1:B:778:GLU:CD	2.31	0.51
1:B:81:VAL:HG22	1:B:102:LYS:HG3	1.93	0.51
1:A:70:ILE:O	1:A:74:MET:HG2	2.11	0.51
1:A:845:ILE:HA	1:A:848:ILE:CG2	2.40	0.51
1:A:970:VAL:O	1:A:973:VAL:CB	2.58	0.51
1:A:853:LEU:CG	1:A:973:VAL:HG22	2.38	0.51
1:A:148:PHE:HB3	1:A:913:GLU:CD	2.31	0.51
1:A:916:TYR:O	1:A:920:LEU:HD23	2.11	0.51
1:A:885:GLU:HB3	1:A:923:PRO:HG3	1.92	0.51
1:A:285:ILE:CG2	1:A:286:LYS:HD2	2.40	0.51
1:B:260:VAL:O	1:B:263:PHE:HB3	2.09	0.51
1:A:1122:SER:O	1:A:1125:GLU:HB2	2.11	0.51
1:B:45:LEU:H	1:B:45:LEU:CD2	2.23	0.51
1:B:278:GLU:HA	1:B:282:ARG:NH2	2.26	0.51
1:A:730:LYS:HG2	1:A:750:LEU:CD2	2.41	0.51
1:B:155:GLU:O	1:B:156:ILE:C	2.48	0.51
1:B:342:GLY:O	1:B:345:SER:N	2.43	0.51
1:B:51:LEU:O	1:B:54:THR:HB	2.10	0.51
1:A:131:PHE:CZ	1:A:185:LYS:NZ	2.75	0.51
1:A:133:CYS:SG	1:A:931:ALA:HA	2.51	0.51
1:A:155:GLU:O	1:A:156:ILE:C	2.49	0.51
1:A:41:TYR:O	1:A:42:ALA:HB3	2.10	0.51
1:B:534:ARG:O	1:B:537:ILE:HB	2.10	0.51
1:A:1173:SER:HB3	1:A:1176:GLN:NE2	2.25	0.51
1:A:106:GLU:HG3	1:A:110:TYR:CZ	2.46	0.51
1:A:1067:SER:O	1:A:1068:SER:HB2	2.10	0.51
1:B:742:GLU:OE2	1:B:742:GLU:HA	2.11	0.51
1:B:799:TRP:O	1:B:803:PRO:HB3	2.10	0.51
1:B:147:PHE:CE2	1:B:365:ILE:HG12	2.46	0.51
1:A:136:ALA:CB	1:A:182:ILE:HB	2.38	0.51
1:A:57:ALA:O	1:A:58:ILE:C	2.49	0.51
1:A:905:SER:OG	1:A:908:ARG:NH2	2.44	0.51
1:A:1078:LEU:HD23	1:A:1083:TYR:O	2.11	0.51
1:A:711:ILE:CD1	1:A:832:ILE:HD13	2.40	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:824:ALA:O	1:A:828:ARG:HG2	2.09	0.51
1:A:1038:PHE:CG	1:A:1039:ASN:N	2.78	0.51
1:B:1031:VAL:HB	1:B:1056:VAL:HG12	1.91	0.51
1:B:371:ILE:O	1:B:373:SER:N	2.43	0.51
1:A:425:SER:HB3	1:A:599:GLY:CA	2.40	0.51
1:B:786:TYR:O	1:B:787:MET:C	2.49	0.51
1:A:210:LEU:C	1:A:210:LEU:HD13	2.31	0.51
1:A:352:ALA:O	1:A:355:ARG:HB3	2.10	0.51
1:A:374:PHE:HE2	1:A:376:LYS:HB2	1.76	0.51
1:A:551:ASP:HA	1:A:581:ILE:CG2	2.41	0.51
1:A:282:ARG:C	1:A:286:LYS:HD3	2.31	0.51
1:A:111:ALA:HA	1:A:114:TYR:HE1	1.76	0.51
1:A:1242:ILE:HG12	1:A:1246:LYS:O	2.11	0.51
1:A:881:LYS:NZ	1:A:881:LYS:HB2	2.26	0.51
1:B:958:TYR:O	1:B:966:THR:HG21	2.10	0.51
1:A:64:LEU:N	1:A:64:LEU:HD22	2.26	0.51
1:A:51:LEU:O	1:A:54:THR:HB	2.10	0.51
1:A:1013:GLU:O	1:A:1014:ILE:CG2	2.52	0.51
1:A:286:LYS:NZ	1:A:822:LYS:NZ	2.59	0.51
1:A:793:LEU:C	1:A:795:GLN:H	2.14	0.51
1:B:1038:PHE:CG	1:B:1039:ASN:N	2.78	0.51
1:B:1132:ASN:OD1	1:B:1134:ARG:HG2	2.11	0.51
1:B:1148:ALA:HB1	1:B:1179:ARG:O	2.11	0.51
1:B:1144:ALA:HB2	1:B:1187:VAL:HG23	1.93	0.51
1:A:1057:LYS:H	1:A:1057:LYS:HD2	1.74	0.51
1:B:282:ARG:HB3	1:B:778:GLU:HG2	1.93	0.51
1:B:225:ALA:HB2	1:B:302:ILE:HG21	1.91	0.51
1:B:769:GLN:HG3	1:B:773:PHE:CE2	2.43	0.51
1:B:856:LEU:O	1:B:859:ALA:HB3	2.10	0.51
1:B:955:PHE:O	1:B:958:TYR:HB3	2.11	0.51
1:B:949:TYR:CE2	1:B:977:ILE:HG21	2.46	0.51
1:A:314:THR:O	1:A:315:SER:C	2.48	0.51
1:A:324:ILE:HD11	1:A:327:VAL:HG13	1.92	0.51
1:A:72:GLY:O	1:A:75:THR:N	2.43	0.51
1:A:901:ARG:HD3	1:A:901:ARG:N	2.23	0.51
1:A:1001:ALA:O	1:A:1004:ILE:HG22	2.11	0.51
1:A:686:GLU:HG2	1:A:813:ARG:NH2	2.13	0.51
1:A:225:ALA:HB2	1:A:302:ILE:HG21	1.92	0.51
1:A:588:VAL:O	1:A:591:ALA:CB	2.57	0.51
1:B:1199:THR:HG23	1:B:1210:VAL:HG11	1.92	0.51
1:A:398:PRO:HD3	1:A:440:TYR:CE2	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:121:VAL:HG23	1:B:122:LEU:H	1.74	0.51
1:B:806:THR:OG1	1:B:807:THR:N	2.44	0.51
1:B:124:VAL:HG23	1:B:125:ALA:N	2.26	0.51
1:A:185:LYS:HZ2	1:A:186:ILE:CA	2.24	0.51
1:A:573:ARG:O	1:A:575:GLY:N	2.43	0.51
1:B:462:LEU:HD12	1:B:466:ILE:CD1	2.40	0.51
1:A:1114:GLN:HE22	1:A:1200:SER:CB	2.23	0.51
1:B:1123:ILE:HG12	1:B:1124:ALA:N	2.26	0.51
1:A:113:TYR:CG	1:A:114:TYR:N	2.79	0.51
1:A:1057:LYS:N	1:A:1057:LYS:HD2	2.26	0.51
1:A:1050:GLN:H	1:A:1245:GLY:HA2	1.76	0.51
1:A:74:MET:HG3	1:A:75:THR:N	2.26	0.50
1:A:131:PHE:O	1:A:132:TRP:C	2.48	0.50
1:A:702:THR:O	1:A:704:TRP:N	2.44	0.50
1:A:703:GLU:HA	1:A:783:ARG:HH12	1.75	0.50
1:B:1037:VAL:HG12	1:B:1051:GLY:N	2.24	0.50
1:A:81:VAL:HG22	1:A:102:LYS:HG3	1.93	0.50
1:B:702:THR:C	1:B:704:TRP:H	2.13	0.50
1:B:748:SER:O	1:B:751:PHE:HD1	1.94	0.50
1:B:970:VAL:O	1:B:973:VAL:CB	2.58	0.50
1:A:118:GLY:HA3	1:A:946:TYR:CE2	2.46	0.50
1:A:68:MET:SD	1:A:332:PHE:CE1	3.02	0.50
1:A:48:LEU:O	1:A:49:TYR:C	2.49	0.50
1:B:910:GLN:O	1:B:913:GLU:N	2.44	0.50
1:A:260:VAL:O	1:A:263:PHE:HB3	2.11	0.50
1:A:279:GLU:O	1:A:282:ARG:HB2	2.11	0.50
1:B:1149:ASN:OD1	1:B:1213:ALA:HB2	2.11	0.50
1:B:552:GLU:HB3	1:B:555:SER:HB2	1.93	0.50
1:A:566:GLN:NE2	1:A:569:LEU:HD12	2.26	0.50
1:B:131:PHE:HD2	1:B:131:PHE:C	2.15	0.50
1:A:922:ILE:CB	1:A:923:PRO:HD3	2.38	0.50
1:A:1023:LYS:HZ3	1:A:1023:LYS:HB3	1.77	0.50
1:A:1214:LEU:HD23	1:A:1214:LEU:O	2.11	0.50
1:B:583:HIS:O	1:B:585:LEU:HD22	2.10	0.50
1:B:702:THR:HB	1:B:703:GLU:OE1	2.11	0.50
1:B:74:MET:HG3	1:B:75:THR:N	2.27	0.50
1:B:777:GLY:HA2	1:B:822:LYS:HG3	1.93	0.50
1:A:207:GLY:CA	1:A:211:THR:H	2.22	0.50
1:A:218:SER:CB	1:A:219:PRO:CD	2.90	0.50
1:A:53:GLY:HA2	1:A:127:ILE:HG22	1.93	0.50
1:A:1149:ASN:OD1	1:A:1213:ALA:HB2	2.10	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:LYS:HE3	1:A:822:LYS:HZ1	1.75	0.50
1:B:1032:GLN:O	1:B:1090:VAL:HA	2.11	0.50
1:B:604:GLU:OE2	1:B:616:GLY:HA3	2.12	0.50
1:A:113:TYR:CD1	1:A:114:TYR:N	2.80	0.50
1:A:114:TYR:HB3	1:A:950:ALA:HB2	1.94	0.50
1:A:1067:SER:OG	1:A:1244:ASN:ND2	2.45	0.50
1:B:1204:THR:OG1	1:B:1205:GLU:N	2.42	0.50
1:A:326:GLN:HE21	1:A:329:THR:HG1	1.57	0.50
1:A:159:PHE:O	1:A:160:ASP:C	2.48	0.50
1:A:384:ILE:CG2	1:A:385:GLN:H	2.03	0.50
1:A:433:VAL:CG1	1:A:549:LEU:HD23	2.41	0.50
1:A:892:ILE:O	1:A:893:ALA:C	2.49	0.50
1:A:906:LEU:HG	1:A:909:GLU:CD	2.31	0.50
1:A:1144:ALA:HB2	1:A:1187:VAL:HG23	1.92	0.50
1:A:267:LYS:HB3	1:A:790:LYS:CE	2.41	0.50
1:A:1037:VAL:HG12	1:A:1051:GLY:N	2.24	0.50
1:B:573:ARG:O	1:B:575:GLY:N	2.45	0.50
1:A:1027:LEU:HD12	1:A:1027:LEU:N	2.26	0.50
1:B:283:LEU:HD12	1:B:284:GLY:N	2.25	0.50
1:B:780:LEU:C	1:B:784:LEU:HD23	2.32	0.50
1:A:362:PHE:HA	1:A:365:ILE:CD1	2.41	0.50
1:A:462:LEU:HD12	1:A:466:ILE:CD1	2.40	0.50
1:A:469:VAL:HG12	1:A:553:ALA:HB2	1.94	0.50
1:A:905:SER:C	1:A:907:THR:H	2.14	0.50
1:B:454:ILE:HG23	1:B:455:ARG:N	2.27	0.50
1:A:1028:GLU:HB2	1:A:1093:ASP:OD1	2.12	0.50
1:A:1081:ARG:NH1	1:A:1098:LYS:O	2.44	0.50
1:B:113:TYR:CG	1:B:114:TYR:N	2.79	0.50
1:B:695:ARG:HD3	1:B:699:LEU:CD2	2.42	0.50
1:A:91:MET:HB3	1:A:93:GLU:OE2	2.12	0.50
1:A:505:ALA:O	1:A:509:ILE:HG23	2.10	0.50
1:A:561:SER:O	1:A:565:VAL:HG23	2.10	0.50
1:A:463:ARG:HG3	1:A:463:ARG:HH11	1.76	0.50
1:B:1001:ALA:O	1:B:1004:ILE:HG22	2.12	0.50
1:B:957:ALA:O	1:B:960:VAL:HG13	2.12	0.50
1:B:131:PHE:O	1:B:132:TRP:C	2.49	0.50
1:B:171:LEU:C	1:B:171:LEU:HD13	2.32	0.50
1:B:186:ILE:CG1	1:B:187:GLY:N	2.75	0.50
1:A:342:GLY:O	1:A:346:PRO:CD	2.60	0.50
1:A:899:ASN:HA	1:A:901:ARG:NH1	2.25	0.50
1:B:482:GLU:O	1:B:483:ASN:C	2.48	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:906:LEU:HG	1:B:909:GLU:CD	2.31	0.50
1:B:603:VAL:HG21	1:B:617:ILE:HG13	1.94	0.50
1:B:113:TYR:CD1	1:B:114:TYR:N	2.79	0.50
1:B:566:GLN:NE2	1:B:569:LEU:HD12	2.26	0.50
1:A:544:ASN:HB2	1:A:576:ARG:HH21	1.77	0.50
1:B:853:LEU:CD2	1:B:853:LEU:H	2.16	0.50
1:A:945:MET:O	1:A:949:TYR:HD1	1.95	0.50
1:B:49:TYR:HH	1:B:130:SER:HB2	1.75	0.50
1:A:374:PHE:CD2	1:A:376:LYS:HB3	2.47	0.50
1:A:384:ILE:O	1:A:385:GLN:O	2.30	0.50
1:A:937:THR:OG1	1:A:938:PHE:N	2.44	0.50
1:B:453:ASP:HB3	1:B:456:THR:CG2	2.41	0.50
1:A:603:VAL:HG21	1:A:617:ILE:HG13	1.94	0.50
1:A:955:PHE:O	1:A:958:TYR:HB3	2.12	0.50
1:B:1023:LYS:CB	1:B:1026:MET:HG2	2.41	0.50
1:B:218:SER:CB	1:B:219:PRO:CD	2.90	0.50
1:B:820:GLN:HG3	1:B:1000:SER:HB3	1.92	0.50
1:A:118:GLY:HA3	1:A:946:TYR:CD2	2.46	0.50
1:B:182:ILE:O	1:B:185:LYS:HE3	2.11	0.50
1:B:189:PHE:O	1:B:190:PHE:C	2.51	0.50
1:A:534:ARG:O	1:A:537:ILE:HB	2.12	0.50
1:A:1196:ASP:OD2	1:A:1226:ILE:HD11	2.12	0.50
1:A:697:LEU:HB3	1:A:828:ARG:CZ	2.41	0.50
1:B:1178:GLN:O	1:B:1182:ILE:HG12	2.11	0.50
1:B:1196:ASP:OD2	1:B:1226:ILE:HD11	2.12	0.50
1:B:114:TYR:CB	1:B:950:ALA:HB2	2.42	0.50
1:A:848:ILE:HG12	1:A:848:ILE:O	2.12	0.49
1:A:972:LEU:O	1:A:975:SER:CB	2.60	0.49
1:B:897:ILE:CG1	1:B:898:GLU:H	2.10	0.49
1:A:1079:LEU:C	1:A:1081:ARG:N	2.66	0.49
1:A:799:TRP:O	1:A:803:PRO:HB3	2.12	0.49
1:B:1154:ILE:HD13	1:B:1161:TYR:CE2	2.47	0.49
1:A:689:PRO:HB2	1:A:690:PRO:CD	2.37	0.49
1:B:1067:SER:OG	1:B:1244:ASN:ND2	2.45	0.49
1:B:91:MET:HB3	1:B:93:GLU:OE2	2.12	0.49
1:B:70:ILE:O	1:B:74:MET:HG2	2.12	0.49
1:B:937:THR:OG1	1:B:938:PHE:N	2.45	0.49
1:A:131:PHE:C	1:A:131:PHE:HD2	2.16	0.49
1:A:393:ILE:HG13	1:A:409:LEU:HB3	1.94	0.49
1:B:406:LEU:HD12	1:B:409:LEU:HB2	1.93	0.49
1:B:536:ALA:O	1:B:537:ILE:O	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:304:ALA:HB2	1:A:758:LEU:HD23	1.94	0.49
1:A:778:GLU:O	1:A:779:ILE:C	2.49	0.49
1:B:1175:GLY:O	1:B:1179:ARG:HG3	2.12	0.49
1:A:232:LEU:HD22	1:A:232:LEU:N	2.27	0.49
1:A:238:LYS:HZ3	1:A:242:ALA:HB2	1.77	0.49
1:A:507:ASP:OD1	1:A:508:PHE:N	2.35	0.49
1:B:1249:GLU:OE1	1:B:1262:ILE:HB	2.12	0.49
1:B:1050:GLN:H	1:B:1245:GLY:HA2	1.77	0.49
1:B:265:GLY:O	1:B:267:LYS:HG3	2.11	0.49
1:B:969:ASN:HD22	1:B:970:VAL:H	1.57	0.49
1:A:969:ASN:O	1:A:972:LEU:N	2.44	0.49
1:B:342:GLY:O	1:B:346:PRO:CD	2.60	0.49
1:A:361:VAL:O	1:A:365:ILE:CD1	2.59	0.49
1:B:900:PHE:CD1	1:B:900:PHE:C	2.85	0.49
1:A:265:GLY:O	1:A:267:LYS:HG3	2.12	0.49
1:B:1229:ARG:O	1:B:1231:SER:N	2.45	0.49
1:A:1255:GLN:HG2	1:A:1259:GLN:HE22	1.77	0.49
1:B:544:ASN:HB2	1:B:576:ARG:HH21	1.77	0.49
1:A:730:LYS:O	1:A:733:GLY:N	2.46	0.49
1:B:934:PHE:O	1:B:935:GLY:C	2.48	0.49
1:A:406:LEU:HD12	1:A:409:LEU:HB2	1.93	0.49
1:A:454:ILE:HG23	1:A:455:ARG:N	2.27	0.49
1:A:520:VAL:HG12	1:A:523:ARG:O	2.11	0.49
1:A:893:ALA:O	1:A:897:ILE:HG12	2.13	0.49
1:A:1076:VAL:HG22	1:A:1194:LEU:HD22	1.95	0.49
1:A:1078:LEU:C	1:A:1081:ARG:H	2.15	0.49
1:A:795:GLN:NE2	1:A:796:ASP:H	2.10	0.49
1:A:695:ARG:HD3	1:A:699:LEU:CD2	2.42	0.49
1:B:697:LEU:HB3	1:B:828:ARG:CZ	2.43	0.49
1:A:1216:LYS:HA	1:A:1216:LYS:CE	2.36	0.49
1:A:748:SER:O	1:A:751:PHE:HD1	1.94	0.49
1:B:1022:LEU:O	1:B:1023:LYS:O	2.31	0.49
1:A:44:TRP:CD1	1:A:45:LEU:HD22	2.47	0.49
1:B:1062:LEU:HB3	1:B:1224:ILE:HA	1.94	0.49
1:B:1046:ILE:N	1:B:1046:ILE:HD12	2.28	0.49
1:B:327:VAL:HG23	1:B:328:LEU:N	2.27	0.49
1:B:118:GLY:HA3	1:B:946:TYR:CD2	2.48	0.49
1:B:974:PHE:O	1:B:978:VAL:HG12	2.13	0.49
1:A:214:ILE:HG12	1:A:331:PHE:CE2	2.48	0.49
1:B:158:TRP:C	1:B:158:TRP:CD1	2.86	0.49
1:A:1041:PRO:O	1:A:1042:THR:HB	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:712:PHE:O	1:A:715:ILE:N	2.45	0.49
1:A:806:THR:OG1	1:A:807:THR:N	2.45	0.49
1:B:1032:GLN:NE2	1:B:1055:GLU:HG3	2.28	0.49
1:B:261:ILE:C	1:B:263:PHE:N	2.62	0.49
1:A:111:ALA:HA	1:A:114:TYR:CE1	2.47	0.49
1:A:585:LEU:H	1:A:585:LEU:CD2	2.25	0.49
1:A:585:LEU:HD12	1:A:618:TYR:CE1	2.43	0.49
1:B:588:VAL:O	1:B:591:ALA:CB	2.59	0.49
1:A:883:LYS:CA	1:A:886:LEU:HG	2.43	0.49
1:A:246:ALA:CB	1:A:277:LEU:HB3	2.39	0.49
1:B:44:TRP:CD1	1:B:45:LEU:HD22	2.47	0.49
1:A:962:GLN:HG2	1:A:962:GLN:O	2.13	0.49
1:B:68:MET:SD	1:B:332:PHE:CE1	3.02	0.49
1:B:703:GLU:HA	1:B:783:ARG:HH12	1.76	0.49
1:B:711:ILE:CD1	1:B:832:ILE:HD13	2.42	0.49
1:A:121:VAL:CG2	1:A:122:LEU:H	2.25	0.49
1:A:186:ILE:CG1	1:A:187:GLY:N	2.75	0.49
1:B:492:THR:C	1:B:494:ASP:N	2.64	0.49
1:A:807:THR:O	1:A:811:THR:HG23	2.13	0.49
1:B:1137:SER:O	1:B:1141:ILE:HG23	2.12	0.49
1:B:1076:VAL:HG22	1:B:1194:LEU:HD22	1.95	0.49
1:B:1041:PRO:O	1:B:1042:THR:HB	2.13	0.49
1:A:1249:GLU:OE1	1:A:1262:ILE:HB	2.13	0.49
1:B:425:SER:HB3	1:B:599:GLY:CA	2.43	0.49
1:A:248:ALA:C	1:A:250:ALA:H	2.14	0.49
1:A:742:GLU:HA	1:A:742:GLU:OE2	2.12	0.49
1:A:969:ASN:HD22	1:A:970:VAL:H	1.56	0.49
1:A:171:LEU:HD13	1:A:171:LEU:C	2.33	0.49
1:A:286:LYS:CE	1:A:822:LYS:NZ	2.76	0.49
1:A:99:MET:N	1:A:99:MET:SD	2.85	0.49
1:B:286:LYS:HG2	1:B:778:GLU:CG	2.43	0.49
1:B:835:ASN:O	1:B:836:ILE:C	2.50	0.49
1:B:64:LEU:HD11	1:B:945:MET:HE1	1.95	0.49
1:A:207:GLY:O	1:A:209:LYS:N	2.46	0.49
1:B:398:PRO:HD3	1:B:440:TYR:CE2	2.47	0.49
1:A:154:GLN:HG2	1:A:154:GLN:O	2.13	0.49
1:A:418:THR:HG22	1:A:578:THR:CG2	2.43	0.49
1:A:1186:LEU:HD12	1:A:1187:VAL:N	2.28	0.49
1:B:1114:GLN:HE22	1:B:1200:SER:CB	2.25	0.49
1:A:1260:LYS:CD	1:A:1260:LYS:H	2.23	0.49
1:B:422:VAL:O	1:B:597:PHE:HB2	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:324:ILE:HG13	1:B:326:GLN:N	2.28	0.49
1:B:65:PRO:O	1:B:66:LEU:C	2.50	0.49
1:A:342:GLY:O	1:A:346:PRO:HD2	2.12	0.49
1:A:158:TRP:NE1	1:A:900:PHE:HB3	2.12	0.49
1:A:922:ILE:HB	1:A:923:PRO:CD	2.41	0.49
1:B:1147:GLU:HB3	1:B:1186:LEU:CD2	2.40	0.49
1:B:962:GLN:O	1:B:962:GLN:HG2	2.13	0.49
1:B:121:VAL:CG2	1:B:122:LEU:H	2.25	0.49
1:B:321:GLU:HG3	1:B:322:TYR:H	1.76	0.49
1:B:848:ILE:O	1:B:848:ILE:HG12	2.11	0.49
1:B:850:GLY:C	1:B:852:GLN:N	2.65	0.49
1:A:849:TYR:OH	1:A:976:ALA:CB	2.61	0.49
1:A:433:VAL:HG13	1:A:549:LEU:HD23	1.95	0.49
1:B:385:GLN:HE21	1:B:386:GLY:N	2.08	0.49
1:A:1057:LYS:N	1:A:1060:GLN:NE2	2.61	0.49
1:B:202:ILE:O	1:B:204:PHE:N	2.45	0.48
1:B:303:TYR:O	1:B:306:TYR:CB	2.60	0.48
1:B:99:MET:SD	1:B:99:MET:N	2.86	0.48
1:A:520:VAL:CG1	1:A:524:GLY:HA2	2.43	0.48
1:B:158:TRP:HE1	1:B:900:PHE:CB	2.26	0.48
1:A:1032:GLN:NE2	1:A:1055:GLU:HG3	2.27	0.48
1:A:1037:VAL:CG2	1:A:1037:VAL:O	2.61	0.48
1:A:77:SER:O	1:A:81:VAL:HG23	2.13	0.48
1:B:418:THR:HG22	1:B:578:THR:CG2	2.42	0.48
1:B:1088:GLY:O	1:B:1089:SER:HB2	2.12	0.48
1:A:1046:ILE:N	1:A:1046:ILE:HD12	2.28	0.48
1:A:121:VAL:O	1:A:122:LEU:C	2.51	0.48
1:A:342:GLY:O	1:A:345:SER:N	2.47	0.48
1:A:360:GLU:O	1:A:363:LYS:HB2	2.13	0.48
1:B:916:TYR:O	1:B:920:LEU:HD23	2.13	0.48
1:A:780:LEU:C	1:A:784:LEU:HD23	2.33	0.48
1:B:1186:LEU:HD12	1:B:1187:VAL:N	2.28	0.48
1:B:291:ALA:CA	1:B:294:SER:HB2	2.40	0.48
1:B:969:ASN:HD22	1:B:969:ASN:C	2.16	0.48
1:A:199:GLY:HA2	1:A:334:VAL:HG23	1.95	0.48
1:A:211:THR:HA	1:A:214:ILE:HD12	1.95	0.48
1:B:188:MET:SD	1:B:188:MET:C	2.92	0.48
1:A:376:LYS:C	1:A:376:LYS:HD2	2.33	0.48
1:A:479:THR:O	1:A:482:GLU:HB2	2.13	0.48
1:A:900:PHE:C	1:A:902:THR:N	2.61	0.48
1:B:484:ILE:CG2	1:B:496:ILE:CD1	2.91	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1009:GLU:O	1:A:1010:LYS:HG3	2.13	0.48
1:A:781:THR:HG23	1:A:818:ALA:HB1	1.95	0.48
1:B:1145:ALA:CB	1:B:1154:ILE:HD12	2.44	0.48
1:B:207:GLY:HA2	1:B:210:LEU:HD12	1.94	0.48
1:B:324:ILE:HG13	1:B:326:GLN:H	1.76	0.48
1:B:781:THR:HG23	1:B:818:ALA:HB1	1.94	0.48
1:B:945:MET:O	1:B:949:TYR:HD1	1.96	0.48
1:A:121:VAL:HG23	1:A:122:LEU:H	1.76	0.48
1:A:327:VAL:HG23	1:A:328:LEU:N	2.28	0.48
1:A:978:VAL:HG21	2:A:6001:2J8:H29	1.95	0.48
1:A:728:PHE:O	1:A:732:VAL:HG22	2.13	0.48
1:B:154:GLN:O	1:B:154:GLN:HG2	2.13	0.48
1:A:368:LYS:O	1:A:369:PRO:C	2.51	0.48
1:A:374:PHE:CE2	1:A:376:LYS:HB2	2.48	0.48
1:A:550:LEU:N	1:A:550:LEU:HD12	2.29	0.48
1:B:894:THR:HA	1:B:897:ILE:HD11	1.96	0.48
1:B:905:SER:C	1:B:907:THR:H	2.17	0.48
1:B:922:ILE:CB	1:B:923:PRO:HD3	2.41	0.48
1:A:301:LEU:O	1:A:304:ALA:HB3	2.13	0.48
1:A:783:ARG:HG2	1:A:783:ARG:HH11	1.78	0.48
1:B:1037:VAL:CG2	1:B:1037:VAL:O	2.61	0.48
1:B:86:LYS:HE2	1:B:738:GLY:C	2.33	0.48
1:B:306:TYR:CE1	1:B:335:LEU:HD22	2.49	0.48
1:B:318:ILE:HD13	1:B:327:VAL:HG22	1.95	0.48
1:B:324:ILE:HD11	1:B:327:VAL:CG1	2.43	0.48
1:B:711:ILE:HD11	1:B:832:ILE:CG2	2.27	0.48
1:B:711:ILE:O	1:B:714:ALA:HB3	2.14	0.48
1:B:77:SER:O	1:B:81:VAL:HG23	2.14	0.48
1:A:204:PHE:O	1:A:211:THR:HG21	2.14	0.48
1:A:728:PHE:CE1	2:A:6002:2J8:SE2	3.16	0.48
1:B:35:VAL:HA	1:B:359:TYR:CD2	2.49	0.48
1:A:420:ALA:O	1:A:421:LEU:HD12	2.14	0.48
1:A:479:THR:HA	1:A:518:THR:O	2.14	0.48
1:A:51:LEU:O	1:A:52:VAL:C	2.52	0.48
1:A:908:ARG:N	1:A:908:ARG:CD	2.76	0.48
1:B:464:GLU:HA	1:B:543:ARG:CZ	2.43	0.48
1:B:907:THR:N	1:B:908:ARG:NE	2.60	0.48
1:A:785:ARG:O	1:A:786:TYR:C	2.52	0.48
1:A:797:VAL:O	1:A:801:ASP:HB2	2.14	0.48
1:B:238:LYS:HZ2	1:B:242:ALA:HB2	1.78	0.48
1:B:1057:LYS:N	1:B:1060:GLN:NE2	2.62	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:332:PHE:O	1:B:335:LEU:HB3	2.13	0.48
1:A:212:LEU:C	1:A:214:ILE:N	2.65	0.48
1:A:214:ILE:CG2	1:A:334:VAL:HG11	2.43	0.48
1:A:970:VAL:CG2	1:A:971:LEU:HD22	2.40	0.48
1:B:144:ARG:O	1:B:145:GLN:C	2.50	0.48
1:B:181:GLY:HA3	1:B:354:ALA:CB	2.44	0.48
1:A:348:ILE:O	1:A:351:PHE:N	2.47	0.48
1:A:465:ILE:HG22	1:A:465:ILE:O	2.13	0.48
1:B:471:GLN:OE1	1:B:472:GLU:N	2.45	0.48
1:B:906:LEU:C	1:B:908:ARG:HD2	2.34	0.48
1:A:1147:GLU:HB3	1:A:1186:LEU:CD2	2.42	0.48
1:B:883:LYS:CA	1:B:886:LEU:HG	2.43	0.48
1:B:1255:GLN:O	1:B:1258:ALA:HB3	2.13	0.48
1:B:1001:ALA:O	1:B:1005:ILE:CG1	2.62	0.48
1:B:293:ILE:HG21	1:B:770:GLY:HA3	1.96	0.48
1:B:793:LEU:C	1:B:795:GLN:H	2.17	0.48
1:A:721:GLN:O	1:A:722:PRO:C	2.51	0.48
1:A:128:GLN:O	1:A:131:PHE:N	2.47	0.48
1:A:144:ARG:O	1:A:145:GLN:C	2.52	0.48
1:A:183:GLY:O	1:A:186:ILE:CG1	2.58	0.48
1:A:148:PHE:CD2	1:A:913:GLU:OE2	2.64	0.48
1:B:529:GLY:HA2	1:B:532:LYS:HD3	1.96	0.48
1:B:540:ALA:O	1:B:543:ARG:CB	2.61	0.48
1:A:1137:SER:HB3	1:A:1140:GLU:HB3	1.94	0.48
1:A:702:THR:C	1:A:704:TRP:N	2.66	0.48
1:B:106:GLU:OE2	1:B:109:THR:HB	2.14	0.48
1:B:1078:LEU:HD23	1:B:1083:TYR:O	2.13	0.48
1:B:1242:ILE:HG12	1:B:1246:LYS:O	2.14	0.48
1:B:218:SER:CB	1:B:219:PRO:HD3	2.44	0.48
1:B:316:LEU:C	1:B:318:ILE:H	2.17	0.48
1:B:849:TYR:OH	1:B:976:ALA:CB	2.61	0.48
1:A:749:ASN:ND2	1:A:749:ASN:C	2.67	0.48
1:A:861:VAL:O	1:A:862:PRO:C	2.51	0.48
1:B:342:GLY:O	1:B:346:PRO:HD2	2.12	0.48
1:B:38:MET:O	1:B:39:PHE:C	2.52	0.48
1:A:158:TRP:C	1:A:158:TRP:CD1	2.87	0.48
1:A:189:PHE:O	1:A:190:PHE:C	2.52	0.48
1:A:479:THR:OG1	1:A:482:GLU:HG2	2.13	0.48
1:A:934:PHE:O	1:A:935:GLY:C	2.51	0.48
1:A:1032:GLN:HE21	1:A:1055:GLU:HB2	1.79	0.48
1:B:523:ARG:CD	1:B:524:GLY:N	2.63	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:520:VAL:HG12	1:B:523:ARG:O	2.13	0.48
1:A:886:LEU:HD12	1:A:887:GLU:N	2.28	0.48
1:B:783:ARG:HG2	1:B:783:ARG:HH11	1.77	0.48
1:A:217:ILE:HG13	1:A:218:SER:H	1.78	0.48
1:A:318:ILE:HD13	1:A:327:VAL:CG1	2.44	0.48
1:B:128:GLN:O	1:B:131:PHE:N	2.47	0.48
1:A:531:GLN:O	1:A:535:ILE:HG12	2.14	0.48
1:B:393:ILE:HG13	1:B:409:LEU:HB3	1.95	0.48
1:B:730:LYS:O	1:B:733:GLY:N	2.46	0.48
1:A:197:PHE:O	1:A:201:ILE:HG12	2.13	0.48
1:A:727:ILE:HD11	1:A:753:LEU:CG	2.44	0.48
1:A:140:ILE:HG13	1:A:179:ASN:HB2	1.95	0.48
1:A:538:ALA:O	1:A:541:LEU:HB3	2.13	0.48
1:A:923:PRO:HA	1:A:926:ASN:HB3	1.96	0.48
1:B:484:ILE:O	1:B:487:GLY:N	2.46	0.48
1:B:532:LYS:O	1:B:533:GLN:C	2.52	0.48
1:B:533:GLN:O	1:B:536:ALA:HB3	2.14	0.48
1:B:902:THR:OG1	1:B:908:ARG:HD3	2.14	0.48
1:B:908:ARG:N	1:B:908:ARG:CD	2.77	0.48
1:A:257:ILE:HD13	1:A:257:ILE:O	2.12	0.48
1:A:711:ILE:CD1	1:A:832:ILE:HG21	2.28	0.48
1:B:1032:GLN:HE21	1:B:1055:GLU:HB2	1.78	0.48
1:A:1217:ALA:O	1:A:1221:ARG:HD3	2.14	0.48
1:A:1029:GLY:O	1:A:1031:VAL:N	2.47	0.48
1:A:506:TYR:O	1:A:510:MET:HG2	2.14	0.48
1:B:1255:GLN:HG2	1:B:1259:GLN:HE22	1.78	0.48
1:B:282:ARG:HG3	1:B:782:LYS:HD3	1.96	0.47
1:B:311:TRP:CD1	1:B:754:LEU:HD13	2.49	0.47
1:A:835:ASN:O	1:A:836:ILE:C	2.52	0.47
1:B:136:ALA:O	1:B:139:GLN:HB2	2.14	0.47
1:A:175:VAL:CG1	1:A:176:SER:H	2.27	0.47
1:A:386:GLY:HA3	1:A:450:ASP:CA	2.39	0.47
1:A:907:THR:C	1:A:908:ARG:NE	2.60	0.47
1:B:550:LEU:N	1:B:550:LEU:HD12	2.28	0.47
1:A:1092:LEU:O	1:A:1093:ASP:HB3	2.14	0.47
1:A:1020:GLN:NE2	1:A:1104:TRP:CE3	2.77	0.47
1:A:773:PHE:C	1:A:773:PHE:CD1	2.87	0.47
1:B:1032:GLN:NE2	1:B:1055:GLU:HB2	2.29	0.47
1:A:959:LEU:O	1:A:964:LEU:HB3	2.13	0.47
1:A:1056:VAL:HG13	1:A:1056:VAL:O	2.14	0.47
1:B:308:LEU:HD12	1:B:751:PHE:CE2	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:734:VAL:HG11	1:A:746:GLN:HB3	1.96	0.47
1:A:861:VAL:O	1:A:864:ILE:HG13	2.14	0.47
1:A:948:SER:O	1:A:952:CYS:HB2	2.13	0.47
1:A:188:MET:C	1:A:188:MET:SD	2.92	0.47
1:A:539:ARG:O	1:A:540:ALA:C	2.52	0.47
1:A:908:ARG:N	1:A:908:ARG:HD2	2.29	0.47
1:A:910:GLN:O	1:A:913:GLU:N	2.46	0.47
1:B:449:ILE:HD13	1:B:449:ILE:C	2.34	0.47
1:B:479:THR:OG1	1:B:482:GLU:HG2	2.15	0.47
1:B:538:ALA:O	1:B:539:ARG:C	2.53	0.47
1:A:706:TYR:O	1:A:707:PHE:CG	2.67	0.47
1:B:1019:THR:O	1:B:1101:ASN:N	2.43	0.47
1:A:1057:LYS:H	1:A:1060:GLN:NE2	2.12	0.47
1:B:1117:ILE:HG13	1:B:1118:LEU:N	2.30	0.47
1:B:625:GLN:O	1:B:626:THR:HB	2.14	0.47
1:A:625:GLN:O	1:A:626:THR:HB	2.14	0.47
1:B:204:PHE:N	1:B:211:THR:OG1	2.47	0.47
1:B:285:ILE:HG22	1:B:286:LYS:HD2	1.96	0.47
1:B:702:THR:C	1:B:704:TRP:N	2.67	0.47
1:A:207:GLY:CA	1:A:211:THR:HB	2.39	0.47
1:A:324:ILE:HD11	1:A:327:VAL:CG1	2.45	0.47
1:B:397:TYR:CB	1:B:398:PRO:HD2	2.44	0.47
1:A:430:SER:O	1:A:431:THR:C	2.52	0.47
1:A:464:GLU:HA	1:A:543:ARG:CZ	2.43	0.47
1:B:539:ARG:O	1:B:540:ALA:C	2.52	0.47
1:A:1117:ILE:HG13	1:A:1118:LEU:N	2.30	0.47
1:A:270:LEU:HD23	1:A:270:LEU:N	2.17	0.47
1:A:800:PHE:C	1:A:803:PRO:HD3	2.31	0.47
1:B:1154:ILE:CD1	1:B:1161:TYR:HE2	2.27	0.47
1:B:589:ARG:C	1:B:591:ALA:N	2.65	0.47
1:A:398:PRO:O	1:A:400:ARG:N	2.46	0.47
1:B:820:GLN:CB	1:B:1000:SER:HB2	2.44	0.47
1:B:212:LEU:HD12	1:B:215:LEU:HD12	1.95	0.47
1:B:279:GLU:HA	1:B:782:LYS:HZ2	1.79	0.47
1:B:282:ARG:HB3	1:B:778:GLU:CG	2.44	0.47
1:B:785:ARG:NH2	1:B:815:ALA:HA	2.29	0.47
1:B:795:GLN:NE2	1:B:796:ASP:H	2.11	0.47
1:A:732:VAL:HG21	1:A:971:LEU:HG	1.97	0.47
1:A:853:LEU:HG	1:A:973:VAL:CG2	2.40	0.47
1:B:348:ILE:O	1:B:351:PHE:N	2.48	0.47
1:A:533:GLN:HE21	1:A:553:ALA:HB1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:904:VAL:CG1	1:B:905:SER:N	2.77	0.47
1:B:959:LEU:O	1:B:964:LEU:HB3	2.14	0.47
1:B:258:ARG:O	1:B:259:THR:C	2.52	0.47
1:B:886:LEU:HD12	1:B:887:GLU:N	2.30	0.47
1:A:1062:LEU:HB3	1:A:1224:ILE:HA	1.95	0.47
1:B:566:GLN:HA	1:B:569:LEU:CD1	2.44	0.47
1:B:191:GLN:O	1:B:192:ALA:C	2.53	0.47
1:B:121:VAL:O	1:B:122:LEU:C	2.51	0.47
1:B:286:LYS:CA	1:B:289:ILE:HB	2.39	0.47
1:B:727:ILE:HD12	1:B:754:LEU:HB2	1.97	0.47
1:B:861:VAL:O	1:B:864:ILE:HG13	2.15	0.47
1:B:943:ALA:HA	1:B:946:TYR:CE1	2.50	0.47
1:A:202:ILE:O	1:A:204:PHE:N	2.45	0.47
1:A:943:ALA:HA	1:A:946:TYR:HE1	1.79	0.47
1:B:157:GLY:HA2	1:B:160:ASP:CG	2.34	0.47
1:B:362:PHE:CA	1:B:365:ILE:HD12	2.41	0.47
1:A:125:ALA:O	1:A:128:GLN:HG2	2.15	0.47
1:A:188:MET:HB2	1:A:347:ASN:HB3	1.96	0.47
1:A:376:LYS:NZ	1:A:377:SER:HB2	2.30	0.47
1:A:469:VAL:HG12	1:A:553:ALA:CB	2.45	0.47
1:A:928:MET:O	1:A:931:ALA:HB3	2.14	0.47
1:B:432:THR:O	1:B:435:LEU:HB2	2.15	0.47
1:B:465:ILE:O	1:B:465:ILE:HG22	2.14	0.47
1:B:923:PRO:HA	1:B:926:ASN:HB3	1.96	0.47
1:A:269:GLU:O	1:A:270:LEU:C	2.52	0.47
1:B:1077:GLN:O	1:B:1080:GLU:HB2	2.15	0.47
1:B:1214:LEU:HD23	1:B:1214:LEU:C	2.34	0.47
1:B:915:MET:O	1:B:918:GLN:HB2	2.14	0.47
1:B:267:LYS:CA	1:B:270:LEU:HD21	2.45	0.47
1:B:290:THR:HG22	1:B:771:PHE:N	2.30	0.47
1:A:210:LEU:C	1:A:212:LEU:N	2.65	0.47
1:A:212:LEU:HD12	1:A:215:LEU:HD12	1.96	0.47
1:A:62:VAL:C	1:A:65:PRO:HD2	2.35	0.47
1:B:159:PHE:HD2	1:B:440:TYR:HH	1.62	0.47
1:B:384:ILE:CG2	1:B:385:GLN:H	2.12	0.47
1:B:382:ASP:HA	1:B:461:TYR:HH	1.80	0.47
1:A:1032:GLN:NE2	1:A:1055:GLU:HB2	2.29	0.47
1:A:1077:GLN:O	1:A:1080:GLU:HB2	2.15	0.47
1:A:288:ALA:C	1:A:291:ALA:HB3	2.35	0.47
1:A:796:ASP:O	1:A:797:VAL:HB	2.14	0.47
1:A:821:VAL:O	1:A:822:LYS:C	2.52	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:295:MET:HA	1:A:295:MET:CE	2.45	0.47
1:A:191:GLN:O	1:A:192:ALA:C	2.53	0.47
1:A:867:ALA:O	1:A:870:VAL:HG12	2.14	0.47
1:B:282:ARG:C	1:B:286:LYS:HD3	2.35	0.47
1:B:315:SER:HB3	1:B:747:ASN:HD22	1.77	0.47
1:B:807:THR:O	1:B:811:THR:HG23	2.14	0.47
1:B:212:LEU:HD13	1:B:215:LEU:HD12	1.96	0.47
1:B:290:THR:HG21	1:B:771:PHE:HA	1.97	0.47
1:B:65:PRO:C	1:B:67:MET:N	2.65	0.47
1:B:943:ALA:HA	1:B:946:TYR:HE1	1.79	0.47
1:B:976:ALA:O	1:B:979:PHE:HB2	2.14	0.47
1:B:140:ILE:HG13	1:B:179:ASN:HB2	1.95	0.47
1:B:55:LEU:C	1:B:55:LEU:HD23	2.35	0.47
1:B:51:LEU:O	1:B:52:VAL:C	2.52	0.47
1:A:498:LYS:HZ3	1:A:502:GLU:CD	2.18	0.47
1:A:533:GLN:O	1:A:536:ALA:HB3	2.14	0.47
1:A:900:PHE:C	1:A:900:PHE:CD1	2.88	0.47
1:A:902:THR:OG1	1:A:908:ARG:HD3	2.15	0.47
1:B:429:LYS:CD	1:B:429:LYS:N	2.74	0.47
1:B:394:HIS:HB2	1:B:444:ASP:HB3	1.97	0.47
1:A:1079:LEU:C	1:A:1081:ARG:H	2.17	0.47
1:A:784:LEU:O	1:A:785:ARG:C	2.53	0.47
1:A:786:TYR:O	1:A:787:MET:C	2.52	0.47
1:A:1225:VAL:HG13	1:A:1225:VAL:O	2.15	0.47
1:B:1101:ASN:O	1:B:1102:VAL:C	2.53	0.47
1:B:992:PRO:HB2	1:B:996:LYS:HE2	1.96	0.47
1:A:106:GLU:OE2	1:A:109:THR:HB	2.15	0.47
1:A:308:LEU:HD13	1:A:755:PHE:CE1	2.50	0.47
1:B:1023:LYS:C	1:B:1025:ASN:H	2.18	0.47
1:A:519:LEU:HD11	1:B:925:ARG:CD	2.45	0.47
1:A:1229:ARG:O	1:A:1231:SER:N	2.47	0.47
1:B:249:VAL:O	1:B:249:VAL:HG12	2.15	0.47
1:B:236:THR:O	1:B:239:GLU:HB2	2.15	0.47
1:B:320:LYS:O	1:B:323:SER:OG	2.32	0.47
1:B:779:ILE:HG13	1:B:780:LEU:H	1.79	0.47
1:B:861:VAL:O	1:B:862:PRO:C	2.50	0.47
1:A:332:PHE:O	1:A:335:LEU:HB3	2.14	0.47
1:B:140:ILE:O	1:B:143:ILE:N	2.48	0.47
1:A:144:ARG:NH1	1:A:175:VAL:HG21	2.30	0.47
1:A:535:ILE:O	1:A:538:ALA:HB3	2.15	0.47
1:B:479:THR:O	1:B:482:GLU:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:796:ASP:O	1:A:797:VAL:CB	2.62	0.47
1:B:257:ILE:HG23	1:B:258:ARG:N	2.30	0.47
1:B:554:THR:HG23	1:B:555:SER:N	2.29	0.47
1:A:519:LEU:CD1	1:B:925:ARG:HD3	2.45	0.47
1:B:506:TYR:O	1:B:510:MET:HG2	2.14	0.47
1:B:278:GLU:O	1:B:279:GLU:C	2.53	0.47
1:B:295:MET:HA	1:B:295:MET:CE	2.45	0.47
1:B:321:GLU:O	1:B:322:TYR:C	2.54	0.47
1:B:732:VAL:HG21	1:B:971:LEU:HG	1.97	0.47
1:B:841:THR:O	1:B:845:ILE:HG13	2.14	0.47
1:A:943:ALA:HA	1:A:946:TYR:CE1	2.49	0.47
1:B:183:GLY:O	1:B:186:ILE:CG1	2.57	0.47
1:B:353:ASN:O	1:B:354:ALA:C	2.53	0.47
1:A:136:ALA:O	1:A:139:GLN:HB2	2.15	0.47
1:B:892:ILE:O	1:B:893:ALA:C	2.53	0.47
1:A:1141:ILE:HG13	1:A:1142:VAL:N	2.30	0.47
1:A:992:PRO:HB2	1:A:996:LYS:HZ3	1.76	0.47
1:B:1141:ILE:HG13	1:B:1142:VAL:N	2.30	0.47
1:B:552:GLU:HB3	1:B:555:SER:CB	2.45	0.47
1:B:1252:THR:HG23	1:B:1255:GLN:CB	2.44	0.47
1:B:706:TYR:O	1:B:707:PHE:CG	2.67	0.47
1:B:726:VAL:HA	1:B:729:SER:OG	2.15	0.47
1:B:72:GLY:O	1:B:75:THR:N	2.48	0.47
1:B:773:PHE:CD1	1:B:773:PHE:C	2.88	0.47
1:B:144:ARG:NH1	1:B:175:VAL:HG21	2.30	0.47
1:B:362:PHE:HA	1:B:365:ILE:CD1	2.40	0.47
1:A:903:VAL:HG23	1:A:906:LEU:HD12	1.97	0.47
1:B:1122:SER:O	1:B:1125:GLU:HB2	2.15	0.47
1:B:1056:VAL:HG13	1:B:1056:VAL:O	2.15	0.47
1:A:100:PHE:HB2	1:A:961:THR:HG23	1.97	0.47
1:B:202:ILE:CD1	1:B:203:GLY:H	2.19	0.46
1:B:314:THR:HG22	1:B:315:SER:N	2.30	0.46
1:B:64:LEU:HD11	1:B:945:MET:HE2	1.97	0.46
1:A:212:LEU:HD13	1:A:215:LEU:HD12	1.95	0.46
1:A:849:TYR:OH	1:A:976:ALA:HB2	2.15	0.46
1:A:181:GLY:HA3	1:A:354:ALA:CB	2.44	0.46
1:A:484:ILE:CG2	1:A:496:ILE:CD1	2.91	0.46
1:B:538:ALA:O	1:B:541:LEU:HB3	2.15	0.46
1:B:885:GLU:CB	1:B:923:PRO:HG3	2.45	0.46
1:A:1043:ARG:N	1:A:1044:PRO:CD	2.78	0.46
1:A:992:PRO:C	1:A:994:TYR:N	2.68	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1127:ILE:O	1:B:1129:TYR:N	2.36	0.46
1:B:1127:ILE:C	1:B:1129:TYR:H	2.17	0.46
1:B:263:PHE:HD1	1:B:1188:ARG:NH2	2.14	0.46
1:A:554:THR:HG23	1:A:555:SER:N	2.31	0.46
1:B:882:ASP:O	1:B:886:LEU:HG	2.16	0.46
1:A:1249:GLU:CD	1:A:1262:ILE:HB	2.35	0.46
1:A:249:VAL:O	1:A:249:VAL:HG12	2.15	0.46
1:B:734:VAL:CG1	1:B:735:PHE:N	2.79	0.46
1:B:791:SER:O	1:B:795:GLN:CB	2.60	0.46
1:A:218:SER:CB	1:A:219:PRO:HD3	2.43	0.46
1:A:718:GLY:HA3	1:A:837:ALA:HB2	1.97	0.46
1:B:348:ILE:O	1:B:349:GLU:C	2.52	0.46
1:A:135:ALA:O	1:A:136:ALA:C	2.53	0.46
1:A:165:GLY:O	1:A:168:ASN:OD1	2.34	0.46
1:A:894:THR:O	1:A:896:ALA:N	2.48	0.46
1:A:261:ILE:C	1:A:263:PHE:N	2.64	0.46
1:A:711:ILE:CD1	1:A:832:ILE:CD1	2.94	0.46
1:B:1014:ILE:O	1:B:1015:ASP:CG	2.53	0.46
1:B:1216:LYS:HA	1:B:1216:LYS:CE	2.34	0.46
1:A:90:ASN:HB2	1:A:91:MET:HE3	1.97	0.46
1:B:90:ASN:HB2	1:B:91:MET:HE3	1.96	0.46
1:A:1255:GLN:O	1:A:1258:ALA:HB3	2.16	0.46
1:A:397:TYR:CB	1:A:398:PRO:HD2	2.46	0.46
1:A:382:ASP:OD2	1:A:382:ASP:N	2.47	0.46
1:B:62:VAL:C	1:B:65:PRO:HD2	2.36	0.46
1:A:210:LEU:HD23	1:A:317:VAL:CG1	2.41	0.46
1:A:318:ILE:O	1:A:735:PHE:HZ	1.99	0.46
1:A:460:ARG:O	1:A:461:TYR:C	2.53	0.46
1:A:59:ILE:HD12	1:A:59:ILE:C	2.36	0.46
1:B:536:ALA:O	1:B:537:ILE:C	2.54	0.46
1:B:908:ARG:N	1:B:908:ARG:HD2	2.30	0.46
1:A:1214:LEU:C	1:A:1214:LEU:HD23	2.36	0.46
1:A:236:THR:O	1:A:239:GLU:HB2	2.14	0.46
1:A:716:ILE:HG13	1:A:717:ASN:N	2.30	0.46
1:B:1137:SER:HB3	1:B:1140:GLU:HB3	1.96	0.46
1:B:604:GLU:OE1	1:B:617:ILE:HB	2.15	0.46
1:B:218:SER:O	1:B:219:PRO:C	2.52	0.46
1:B:281:LYS:O	1:B:285:ILE:HB	2.15	0.46
1:B:721:GLN:O	1:B:722:PRO:C	2.51	0.46
1:A:65:PRO:O	1:A:66:LEU:C	2.53	0.46
1:B:35:VAL:HG21	1:B:355:ARG:NH2	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:128:GLN:O	1:A:129:VAL:C	2.51	0.46
1:A:348:ILE:O	1:A:349:GLU:C	2.52	0.46
1:A:908:ARG:O	1:A:911:LYS:N	2.49	0.46
1:B:528:SER:OG	1:B:531:GLN:HG3	2.15	0.46
1:A:1092:LEU:HD23	1:A:1093:ASP:N	2.30	0.46
1:B:1225:VAL:HG13	1:B:1225:VAL:O	2.14	0.46
1:A:604:GLU:OE2	1:A:616:GLY:HA3	2.15	0.46
1:B:994:TYR:N	1:B:996:LYS:HZ1	2.13	0.46
1:B:578:THR:OG1	1:B:579:ILE:N	2.48	0.46
1:B:137:GLY:O	1:B:138:ARG:C	2.54	0.46
1:A:962:GLN:O	1:A:963:GLN:CB	2.63	0.46
1:B:214:ILE:O	1:B:215:LEU:C	2.54	0.46
1:B:311:TRP:CZ2	1:B:728:PHE:CE2	3.04	0.46
1:B:969:ASN:O	1:B:972:LEU:HB2	2.15	0.46
1:A:71:PHE:CZ	1:A:328:LEU:HD11	2.51	0.46
1:A:353:ASN:O	1:A:354:ALA:C	2.53	0.46
1:A:35:VAL:HA	1:A:359:TYR:CD2	2.50	0.46
1:A:38:MET:O	1:A:39:PHE:C	2.54	0.46
1:A:428:GLY:O	1:A:432:THR:HG23	2.16	0.46
1:A:532:LYS:O	1:A:533:GLN:C	2.53	0.46
1:A:902:THR:CA	1:A:904:VAL:HG12	2.46	0.46
1:B:386:GLY:HA3	1:B:450:ASP:CA	2.37	0.46
1:B:921:GLN:CG	1:B:922:ILE:HD12	2.44	0.46
1:A:1019:THR:O	1:A:1020:GLN:HB3	2.14	0.46
1:A:1080:GLU:CD	1:A:1109:LEU:HD12	2.36	0.46
1:A:770:GLY:HA2	1:A:773:PHE:CE2	2.50	0.46
1:A:604:GLU:OE1	1:A:617:ILE:HB	2.14	0.46
1:A:308:LEU:HD12	1:A:751:PHE:CE2	2.51	0.46
1:B:1022:LEU:O	1:B:1026:MET:HG2	2.16	0.46
1:A:882:ASP:O	1:A:886:LEU:HG	2.15	0.46
1:B:266:GLN:HB2	1:B:270:LEU:CD2	2.46	0.46
1:B:270:LEU:CD2	1:B:270:LEU:H	2.16	0.46
1:B:286:LYS:HE2	1:B:778:GLU:HG3	1.97	0.46
1:B:288:ALA:C	1:B:291:ALA:HB3	2.35	0.46
1:B:749:ASN:C	1:B:749:ASN:ND2	2.68	0.46
1:B:800:PHE:HA	1:B:803:PRO:HB3	1.97	0.46
1:A:730:LYS:HZ3	1:A:750:LEU:HD21	1.80	0.46
1:A:841:THR:O	1:A:845:ILE:HG13	2.15	0.46
1:B:59:ILE:HD12	1:B:59:ILE:C	2.36	0.46
1:A:1093:ASP:OD2	1:A:1093:ASP:C	2.53	0.46
1:A:257:ILE:HG23	1:A:258:ARG:N	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1092:LEU:O	1:B:1093:ASP:HB3	2.16	0.46
1:B:1092:LEU:HD23	1:B:1093:ASP:N	2.30	0.46
1:B:1043:ARG:N	1:B:1044:PRO:CD	2.79	0.46
1:A:137:GLY:O	1:A:138:ARG:C	2.53	0.46
1:B:962:GLN:O	1:B:963:GLN:CB	2.63	0.46
1:B:727:ILE:HD11	1:B:753:LEU:CG	2.46	0.46
1:B:131:PHE:CZ	1:B:185:LYS:NZ	2.75	0.46
1:B:356:GLY:O	1:B:357:ALA:C	2.54	0.46
1:A:1078:LEU:O	1:A:1081:ARG:N	2.48	0.46
1:B:1142:VAL:HG22	1:B:1161:TYR:HE1	1.80	0.46
1:B:1079:LEU:C	1:B:1081:ARG:N	2.67	0.46
1:A:1270:GLN:O	1:A:1271:ALA:C	2.53	0.46
1:B:207:GLY:HA3	1:B:211:THR:CA	2.44	0.46
1:B:267:LYS:HA	1:B:270:LEU:HD21	1.98	0.46
1:B:318:ILE:HD12	1:B:324:ILE:H	1.79	0.46
1:A:528:SER:OG	1:A:531:GLN:HG3	2.16	0.46
1:A:543:ARG:NH1	1:A:905:SER:HB3	2.31	0.46
1:B:466:ILE:N	1:B:466:ILE:HD12	2.31	0.46
1:B:902:THR:CA	1:B:904:VAL:HG12	2.46	0.46
1:A:1154:ILE:CD1	1:A:1161:TYR:CE2	2.96	0.46
1:B:1033:PHE:CD1	1:B:1036:VAL:HG22	2.51	0.46
1:B:585:LEU:HD12	1:B:618:TYR:CE1	2.43	0.46
1:A:1056:VAL:HG23	1:A:1060:GLN:HE22	1.81	0.46
1:B:199:GLY:HA2	1:B:334:VAL:HG23	1.97	0.46
1:B:762:SER:O	1:B:763:PHE:C	2.53	0.46
1:B:817:ASP:O	1:B:821:VAL:HG13	2.16	0.46
1:B:849:TYR:OH	1:B:976:ALA:HB2	2.16	0.46
1:B:118:GLY:HA3	1:B:946:TYR:CZ	2.50	0.46
1:A:72:GLY:O	1:A:73:ASP:C	2.54	0.46
1:A:729:SER:CB	1:A:971:LEU:HB3	2.46	0.46
1:A:183:GLY:O	1:A:184:ASP:C	2.54	0.46
1:A:475:LEU:HD12	1:A:532:LYS:HG2	1.98	0.46
1:A:885:GLU:CB	1:A:923:PRO:HG3	2.46	0.46
1:B:1131:ASP:OD1	1:B:1134:ARG:HG3	2.15	0.46
1:B:113:TYR:OH	1:B:950:ALA:HA	2.15	0.46
1:A:1252:THR:HG23	1:A:1255:GLN:CB	2.45	0.46
1:B:203:GLY:O	1:B:215:LEU:HD21	2.16	0.46
1:B:165:GLY:O	1:B:168:ASN:OD1	2.34	0.46
1:A:449:ILE:C	1:A:449:ILE:HD13	2.35	0.46
1:A:549:LEU:N	1:A:549:LEU:CD1	2.79	0.46
1:A:55:LEU:O	1:A:56:ALA:C	2.53	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:411:LEU:HD23	1:B:411:LEU:C	2.37	0.46
1:B:475:LEU:HD12	1:B:532:LYS:HG2	1.98	0.46
1:A:1131:ASP:OD1	1:A:1134:ARG:HG3	2.15	0.46
1:A:775:LYS:O	1:A:776:ALA:C	2.54	0.46
1:A:817:ASP:O	1:A:821:VAL:HG13	2.15	0.46
1:B:1093:ASP:C	1:B:1093:ASP:OD2	2.55	0.46
1:B:1080:GLU:CD	1:B:1109:LEU:HD12	2.36	0.46
1:B:1057:LYS:H	1:B:1060:GLN:NE2	2.13	0.46
1:B:705:PRO:O	1:B:706:TYR:HB3	2.16	0.45
1:B:790:LYS:O	1:B:793:LEU:N	2.49	0.45
1:B:796:ASP:O	1:B:797:VAL:HB	2.15	0.45
1:B:851:TRP:CA	1:B:854:THR:HB	2.26	0.45
1:A:227:ILE:HG22	1:A:228:TRP:N	2.31	0.45
1:A:974:PHE:O	1:A:978:VAL:HG12	2.15	0.45
1:A:472:GLU:OE1	1:A:472:GLU:HA	2.15	0.45
1:A:904:VAL:CG1	1:A:905:SER:N	2.78	0.45
1:A:1095:LYS:CD	1:A:1095:LYS:H	2.29	0.45
1:A:1148:ALA:HB1	1:A:1179:ARG:O	2.14	0.45
1:B:1078:LEU:C	1:B:1081:ARG:H	2.20	0.45
1:B:585:LEU:H	1:B:585:LEU:CD2	2.26	0.45
1:A:1193:LEU:HB2	1:A:1223:CYS:CB	2.45	0.45
1:B:235:PHE:O	1:B:239:GLU:HG2	2.16	0.45
1:B:734:VAL:HG11	1:B:746:GLN:HB3	1.98	0.45
1:B:770:GLY:HA2	1:B:773:PHE:CE2	2.50	0.45
1:A:68:MET:HA	1:A:68:MET:HE2	1.98	0.45
1:A:976:ALA:O	1:A:979:PHE:HB2	2.16	0.45
1:B:188:MET:HB2	1:B:347:ASN:HB3	1.97	0.45
1:A:458:ASN:HD22	1:A:459:VAL:N	2.11	0.45
1:A:489:GLU:O	1:A:491:VAL:HG12	2.16	0.45
1:A:921:GLN:HG2	1:A:922:ILE:HD13	1.98	0.45
1:A:932:HIS:O	1:A:933:VAL:C	2.55	0.45
1:B:394:HIS:O	1:B:443:LEU:HB3	2.17	0.45
1:B:433:VAL:O	1:B:434:GLN:C	2.54	0.45
1:B:890:GLY:O	1:B:893:ALA:HB3	2.16	0.45
1:B:908:ARG:O	1:B:911:LYS:N	2.49	0.45
1:A:1196:ASP:HA	1:A:1226:ILE:CG1	2.47	0.45
1:B:1079:LEU:C	1:B:1081:ARG:H	2.18	0.45
1:B:72:GLY:O	1:B:73:ASP:C	2.55	0.45
1:B:717:ASN:ND2	1:B:765:THR:CG2	2.79	0.45
1:B:821:VAL:CG2	1:B:822:LYS:N	2.80	0.45
1:B:948:SER:O	1:B:952:CYS:HB2	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:133:CYS:HB2	1:B:931:ALA:HB1	1.98	0.45
1:B:139:GLN:O	1:B:140:ILE:C	2.54	0.45
1:A:345:SER:O	1:A:346:PRO:C	2.53	0.45
1:B:381:PRO:HD2	1:B:461:TYR:CE2	2.51	0.45
1:B:478:THR:HG22	1:B:482:GLU:HG3	1.99	0.45
1:B:964:LEU:CD1	1:B:965:MET:H	2.18	0.45
1:B:1150:ILE:HD13	1:B:1176:GLN:HA	1.98	0.45
1:B:257:ILE:HD13	1:B:257:ILE:O	2.16	0.45
1:B:527:LEU:CD2	1:B:527:LEU:N	2.77	0.45
1:A:504:ASN:HB3	1:A:571:LYS:NZ	2.32	0.45
1:A:463:ARG:NH1	1:A:463:ARG:HG3	2.32	0.45
1:B:212:LEU:C	1:B:214:ILE:N	2.66	0.45
1:B:785:ARG:O	1:B:786:TYR:C	2.54	0.45
1:B:949:TYR:HE2	1:B:977:ILE:HG21	1.82	0.45
1:B:359:TYR:O	1:B:362:PHE:HB3	2.16	0.45
1:A:57:ALA:O	1:A:60:HIS:HB3	2.17	0.45
1:B:580:VAL:HG22	1:B:581:ILE:N	2.31	0.45
1:A:820:GLN:CB	1:A:1000:SER:HB2	2.46	0.45
1:A:1142:VAL:HG22	1:A:1161:TYR:HE1	1.80	0.45
1:A:235:PHE:O	1:A:239:GLU:HG2	2.16	0.45
1:A:710:GLY:O	1:A:711:ILE:C	2.55	0.45
1:A:789:PHE:O	1:A:792:MET:HB2	2.16	0.45
1:A:693:PHE:O	1:A:694:TRP:HB2	2.15	0.45
1:A:992:PRO:HB2	1:A:996:LYS:HE2	1.98	0.45
1:A:1063:ALA:CB	1:A:1239:ILE:HG13	2.46	0.45
1:B:1036:VAL:CG1	1:B:1052:LEU:HB3	2.45	0.45
1:B:1206:SER:O	1:B:1207:GLU:C	2.55	0.45
1:A:804:LYS:HE3	1:A:804:LYS:N	2.32	0.45
1:B:326:GLN:HE21	1:B:329:THR:HG1	1.60	0.45
1:B:71:PHE:O	1:B:71:PHE:HD2	1.98	0.45
1:B:972:LEU:O	1:B:975:SER:CB	2.63	0.45
1:A:413:VAL:HG21	1:A:419:VAL:CG1	2.47	0.45
1:A:533:GLN:OE1	1:A:533:GLN:HA	2.17	0.45
1:A:578:THR:OG1	1:A:579:ILE:N	2.47	0.45
1:A:907:THR:N	1:A:908:ARG:NE	2.64	0.45
1:B:390:PHE:HZ	1:B:436:MET:HG2	1.82	0.45
1:B:428:GLY:O	1:B:431:THR:HB	2.16	0.45
1:B:922:ILE:HB	1:B:923:PRO:CD	2.45	0.45
1:A:1020:GLN:HB3	1:A:1100:LEU:HD12	1.97	0.45
1:A:1032:GLN:HE21	1:A:1055:GLU:CB	2.29	0.45
1:A:1101:ASN:OD1	1:A:1103:GLN:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:286:LYS:CA	1:A:289:ILE:HB	2.40	0.45
1:A:717:ASN:ND2	1:A:765:THR:CG2	2.79	0.45
1:B:993:ASP:C	1:B:995:ALA:H	2.19	0.45
1:B:114:TYR:CB	1:B:950:ALA:CB	2.95	0.45
1:B:114:TYR:HB3	1:B:950:ALA:CB	2.46	0.45
1:B:504:ASN:HB3	1:B:571:LYS:NZ	2.31	0.45
1:B:269:GLU:O	1:B:270:LEU:C	2.54	0.45
1:B:318:ILE:CD1	1:B:324:ILE:H	2.29	0.45
1:B:71:PHE:CZ	1:B:328:LEU:HD11	2.52	0.45
1:A:316:LEU:C	1:A:318:ILE:H	2.20	0.45
1:A:846:SER:C	1:A:849:TYR:HB2	2.37	0.45
1:B:346:PRO:O	1:B:349:GLU:HB3	2.16	0.45
1:A:359:TYR:O	1:A:362:PHE:HB3	2.17	0.45
1:A:528:SER:O	1:A:529:GLY:C	2.53	0.45
1:A:906:LEU:C	1:A:908:ARG:HD2	2.37	0.45
1:B:535:ILE:O	1:B:536:ALA:C	2.54	0.45
1:B:690:PRO:O	1:B:691:ALA:C	2.54	0.45
1:A:1119:PHE:O	1:A:1165:VAL:HG11	2.17	0.45
1:A:762:SER:O	1:A:763:PHE:C	2.53	0.45
1:A:779:ILE:HG13	1:A:780:LEU:H	1.82	0.45
1:A:1033:PHE:CD1	1:A:1036:VAL:HG22	2.52	0.45
1:A:1036:VAL:CG1	1:A:1052:LEU:HB3	2.45	0.45
1:B:114:TYR:HB3	1:B:950:ALA:HB2	1.99	0.45
1:A:519:LEU:H	1:A:519:LEU:HD22	1.80	0.45
1:B:322:TYR:CE2	1:B:327:VAL:HG12	2.52	0.45
1:B:711:ILE:HG23	1:B:712:PHE:N	2.32	0.45
1:B:729:SER:CB	1:B:971:LEU:HB3	2.47	0.45
1:B:852:GLN:O	1:B:856:LEU:HB3	2.16	0.45
1:A:200:PHE:O	1:A:201:ILE:C	2.54	0.45
1:A:208:TRP:O	1:A:209:LYS:HE3	2.17	0.45
1:B:140:ILE:O	1:B:141:HIS:C	2.55	0.45
1:A:136:ALA:HB2	1:A:182:ILE:CG2	2.47	0.45
1:A:152:MET:HG3	1:A:909:GLU:HG3	1.98	0.45
1:A:55:LEU:HD23	1:A:55:LEU:C	2.36	0.45
1:B:472:GLU:OE1	1:B:472:GLU:HA	2.16	0.45
1:B:528:SER:O	1:B:529:GLY:C	2.55	0.45
1:A:992:PRO:HB2	1:A:996:LYS:HZ1	1.79	0.45
1:B:1195:LEU:CD1	1:B:1195:LEU:N	2.80	0.45
1:B:559:THR:O	1:B:562:GLU:N	2.49	0.45
1:B:1056:VAL:HG23	1:B:1060:GLN:HE22	1.81	0.45
1:A:426:GLY:O	1:A:427:CYS:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:301:LEU:O	1:B:304:ALA:HB3	2.17	0.45
1:B:792:MET:HA	1:B:795:GLN:HB2	1.98	0.45
1:B:834:GLN:O	1:B:835:ASN:O	2.35	0.45
1:A:65:PRO:C	1:A:67:MET:N	2.67	0.45
1:A:718:GLY:CA	1:A:837:ALA:CB	2.94	0.45
1:A:529:GLY:HA2	1:A:532:LYS:HD3	1.97	0.45
1:B:431:THR:O	1:B:435:LEU:HD23	2.17	0.45
1:A:788:VAL:HG21	1:A:1004:ILE:HD11	1.98	0.45
1:A:1022:LEU:O	1:A:1022:LEU:HD22	2.17	0.45
1:A:270:LEU:HB3	1:A:789:PHE:CE1	2.52	0.45
1:B:1035:GLY:C	1:B:1052:LEU:O	2.55	0.45
1:A:603:VAL:CG2	1:A:604:GLU:H	2.09	0.45
1:A:1029:GLY:O	1:A:1031:VAL:HG23	2.16	0.45
1:B:1095:LYS:CD	1:B:1095:LYS:H	2.30	0.45
1:B:248:ALA:C	1:B:250:ALA:N	2.68	0.45
1:A:566:GLN:HA	1:A:569:LEU:CD1	2.47	0.45
1:B:286:LYS:HE3	1:B:822:LYS:HZ1	1.81	0.45
1:B:68:MET:HA	1:B:68:MET:HE1	1.97	0.45
1:B:820:GLN:HG3	1:B:1000:SER:HB2	1.98	0.45
1:B:711:ILE:CD1	1:B:832:ILE:CD1	2.94	0.45
1:B:175:VAL:CG1	1:B:176:SER:N	2.79	0.45
1:B:366:ASP:O	1:B:367:ASN:C	2.55	0.45
1:A:150:ALA:O	1:A:151:ILE:C	2.55	0.45
1:A:466:ILE:HD12	1:A:466:ILE:N	2.32	0.45
1:B:531:GLN:O	1:B:532:LYS:C	2.55	0.45
1:A:792:MET:HA	1:A:795:GLN:HB2	1.98	0.45
1:A:812:THR:O	1:A:813:ARG:C	2.54	0.45
1:B:1037:VAL:HA	1:B:1049:LEU:O	2.16	0.45
1:A:295:MET:O	1:A:298:ALA:N	2.50	0.45
1:A:248:ALA:C	1:A:250:ALA:N	2.71	0.45
1:B:716:ILE:HG13	1:B:717:ASN:N	2.30	0.45
1:B:728:PHE:O	1:B:732:VAL:HG22	2.17	0.45
1:A:314:THR:HG22	1:A:315:SER:N	2.31	0.45
1:A:322:TYR:CE2	1:A:327:VAL:HG12	2.52	0.45
1:A:734:VAL:CG1	1:A:735:PHE:N	2.79	0.45
1:A:389:GLU:OE1	1:A:412:LYS:HB2	2.16	0.45
1:B:549:LEU:N	1:B:549:LEU:CD1	2.79	0.45
1:B:903:VAL:HG23	1:B:906:LEU:HD12	1.98	0.45
1:A:1094:GLY:O	1:A:1095:LYS:O	2.35	0.45
1:A:810:LEU:O	1:A:811:THR:C	2.55	0.45
1:B:1248:LYS:CG	1:B:1262:ILE:HD12	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:270:LEU:HD23	1:B:270:LEU:N	2.17	0.44
1:B:326:GLN:O	1:B:327:VAL:C	2.55	0.44
1:B:972:LEU:HA	1:B:975:SER:OG	2.18	0.44
1:A:214:ILE:O	1:A:215:LEU:C	2.56	0.44
1:B:50:MET:O	1:B:51:LEU:C	2.55	0.44
1:A:132:TRP:HB2	1:A:186:ILE:HG12	1.99	0.44
1:A:140:ILE:O	1:A:143:ILE:N	2.50	0.44
1:A:35:VAL:HG21	1:A:355:ARG:NH2	2.29	0.44
1:A:370:SER:OG	1:A:374:PHE:CD1	2.65	0.44
1:A:388:LEU:N	1:A:388:LEU:CD1	2.80	0.44
1:A:52:VAL:O	1:A:53:GLY:C	2.53	0.44
1:B:537:ILE:O	1:B:540:ALA:N	2.51	0.44
1:B:899:ASN:HA	1:B:901:ARG:CZ	2.47	0.44
1:B:913:GLU:OE2	1:B:913:GLU:CA	2.64	0.44
1:A:278:GLU:O	1:A:282:ARG:NH1	2.49	0.44
1:A:693:PHE:O	1:A:693:PHE:CD1	2.70	0.44
1:B:1064:LEU:HB3	1:B:1226:ILE:HA	1.98	0.44
1:B:314:THR:HG23	1:B:327:VAL:CG2	2.42	0.44
1:B:974:PHE:CB	2:B:6004:2J8:SE2	3.09	0.44
1:B:800:PHE:C	1:B:803:PRO:HD3	2.35	0.44
1:A:303:TYR:O	1:A:306:TYR:N	2.50	0.44
1:A:721:GLN:HG3	1:A:979:PHE:CE1	2.51	0.44
1:B:136:ALA:HB2	1:B:182:ILE:CG2	2.47	0.44
1:A:464:GLU:C	1:A:466:ILE:H	2.20	0.44
1:A:580:VAL:HG22	1:A:581:ILE:N	2.32	0.44
1:A:1178:GLN:OE1	1:A:1178:GLN:HA	2.17	0.44
1:A:788:VAL:O	1:A:789:PHE:C	2.54	0.44
1:A:821:VAL:C	1:A:823:GLY:N	2.69	0.44
1:B:1179:ARG:O	1:B:1182:ILE:HB	2.18	0.44
1:A:1037:VAL:HG22	1:A:1087:ALA:HB3	1.99	0.44
1:A:1156:SER:O	1:A:1157:LEU:O	2.35	0.44
1:B:463:ARG:NH1	1:B:463:ARG:HG3	2.32	0.44
1:A:404:GLN:O	1:A:404:GLN:HG2	2.18	0.44
1:B:210:LEU:C	1:B:212:LEU:N	2.66	0.44
1:B:836:ILE:O	1:B:837:ALA:C	2.55	0.44
1:B:846:SER:C	1:B:849:TYR:HB2	2.37	0.44
1:B:849:TYR:CD1	1:B:854:THR:HA	2.44	0.44
1:A:732:VAL:O	1:A:736:THR:HG23	2.18	0.44
1:B:174:ASP:O	1:B:175:VAL:C	2.54	0.44
1:A:131:PHE:CZ	1:A:186:ILE:HG22	2.53	0.44
1:A:175:VAL:CG1	1:A:176:SER:N	2.76	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:147:PHE:CG	1:A:365:ILE:HG12	2.52	0.44
1:A:471:GLN:OE1	1:A:472:GLU:N	2.46	0.44
1:A:894:THR:HA	1:A:897:ILE:HD11	1.97	0.44
1:B:537:ILE:O	1:B:539:ARG:N	2.51	0.44
1:B:539:ARG:O	1:B:542:VAL:N	2.50	0.44
1:B:907:THR:C	1:B:908:ARG:NE	2.59	0.44
1:A:1150:ILE:HD13	1:A:1176:GLN:HA	1.99	0.44
1:A:257:ILE:HG13	1:A:800:PHE:CD2	2.52	0.44
1:A:764:ILE:HG22	1:A:768:LEU:HD23	2.00	0.44
1:B:1063:ALA:CB	1:B:1239:ILE:HG13	2.46	0.44
1:A:109:THR:O	1:A:113:TYR:HB3	2.17	0.44
1:B:1119:PHE:O	1:B:1165:VAL:HG11	2.16	0.44
1:A:308:LEU:HA	1:A:751:PHE:HE2	1.81	0.44
1:B:519:LEU:HD22	1:B:519:LEU:H	1.82	0.44
1:B:506:TYR:O	1:B:509:ILE:HG13	2.17	0.44
1:B:509:ILE:HD13	1:B:516:PHE:CE1	2.52	0.44
1:B:1217:ALA:O	1:B:1221:ARG:HD3	2.16	0.44
1:A:1027:LEU:CD1	1:A:1027:LEU:N	2.81	0.44
1:B:282:ARG:HD3	1:B:286:LYS:HZ3	1.82	0.44
1:B:718:GLY:HA3	1:B:837:ALA:HB2	1.99	0.44
1:B:132:TRP:HB2	1:B:186:ILE:HG12	1.99	0.44
1:A:899:ASN:HA	1:A:901:ARG:CZ	2.47	0.44
1:B:543:ARG:NH1	1:B:905:SER:CB	2.76	0.44
1:A:1011:THR:O	1:A:1012:PRO:C	2.55	0.44
1:A:1023:LYS:HD2	1:A:1095:LYS:NZ	2.32	0.44
1:A:1128:ALA:HB2	1:A:1141:ILE:CG2	2.38	0.44
1:A:996:LYS:N	1:A:996:LYS:HD3	2.12	0.44
1:B:1038:PHE:CD1	1:B:1039:ASN:N	2.85	0.44
1:B:1101:ASN:OD1	1:B:1103:GLN:HB3	2.18	0.44
1:A:510:MET:SD	1:A:515:GLN:OE1	2.76	0.44
1:A:509:ILE:HD13	1:A:516:PHE:CE1	2.52	0.44
1:A:609:ASP:O	1:A:613:ARG:HB2	2.18	0.44
1:B:239:GLU:O	1:B:243:TYR:HB2	2.17	0.44
1:B:764:ILE:HG22	1:B:768:LEU:HD23	2.00	0.44
1:B:788:VAL:O	1:B:791:SER:HB2	2.18	0.44
1:B:974:PHE:CE2	1:B:978:VAL:HB	2.53	0.44
1:A:120:GLY:O	1:A:121:VAL:C	2.56	0.44
1:A:972:LEU:HA	1:A:975:SER:OG	2.18	0.44
1:B:39:PHE:CZ	1:B:178:ILE:HG23	2.53	0.44
1:B:938:PHE:O	1:B:941:THR:N	2.50	0.44
1:A:406:LEU:HD11	1:A:432:THR:HG22	1.97	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:ALA:O	1:A:537:ILE:O	2.36	0.44
1:A:468:VAL:CG2	1:A:549:LEU:HD13	2.47	0.44
1:A:921:GLN:HG2	1:A:922:ILE:HD12	1.99	0.44
1:B:431:THR:O	1:B:432:THR:C	2.55	0.44
1:A:1195:LEU:O	1:A:1226:ILE:HG13	2.18	0.44
1:A:266:GLN:HB2	1:A:270:LEU:CD2	2.47	0.44
1:A:286:LYS:CE	1:A:822:LYS:HZ2	2.30	0.44
1:A:791:SER:O	1:A:795:GLN:CB	2.62	0.44
1:A:821:VAL:CG2	1:A:822:LYS:N	2.80	0.44
1:A:1033:PHE:O	1:A:1053:SER:HA	2.17	0.44
1:B:1156:SER:O	1:B:1157:LEU:O	2.36	0.44
1:B:718:GLY:CA	1:B:837:ALA:CB	2.95	0.44
1:B:727:ILE:HG22	1:B:728:PHE:N	2.33	0.44
1:B:78:PHE:HZ	1:B:967:PHE:O	2.01	0.44
1:B:977:ILE:O	1:B:980:GLY:N	2.50	0.44
1:B:398:PRO:O	1:B:400:ARG:N	2.47	0.44
1:B:55:LEU:O	1:B:56:ALA:C	2.55	0.44
1:B:932:HIS:O	1:B:933:VAL:C	2.54	0.44
1:A:174:ASP:O	1:A:175:VAL:C	2.54	0.44
1:A:411:LEU:HD23	1:A:411:LEU:C	2.38	0.44
1:A:431:THR:O	1:A:434:GLN:HB3	2.18	0.44
1:B:409:LEU:C	1:B:409:LEU:HD13	2.38	0.44
1:A:1114:GLN:OE1	1:A:1197:GLU:HB2	2.17	0.44
1:A:279:GLU:HG2	1:A:782:LYS:CD	2.47	0.44
1:A:1038:PHE:CD1	1:A:1039:ASN:N	2.86	0.44
1:B:1032:GLN:HE21	1:B:1055:GLU:CB	2.28	0.44
1:A:1204:THR:HG23	1:A:1205:GLU:N	2.33	0.44
1:B:113:TYR:C	1:B:113:TYR:CD1	2.90	0.44
1:A:559:THR:O	1:A:562:GLU:N	2.51	0.44
1:A:585:LEU:N	1:A:585:LEU:HD22	2.31	0.44
1:A:915:MET:O	1:A:918:GLN:HB2	2.17	0.44
1:B:282:ARG:HD3	1:B:282:ARG:HA	1.81	0.44
1:B:71:PHE:CD2	1:B:71:PHE:C	2.91	0.44
1:B:957:ALA:O	1:B:958:TYR:C	2.56	0.44
1:B:81:VAL:HG13	1:B:99:MET:HG3	2.00	0.44
1:A:833:PHE:CG	1:A:834:GLN:N	2.86	0.44
1:A:967:PHE:CD2	1:A:967:PHE:N	2.86	0.44
1:B:150:ALA:O	1:B:153:ASN:N	2.41	0.44
1:B:361:VAL:O	1:B:365:ILE:CD1	2.63	0.44
1:B:52:VAL:O	1:B:53:GLY:C	2.55	0.44
1:A:438:ARG:CZ	1:A:455:ARG:HA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:432:THR:O	1:B:433:VAL:C	2.55	0.44
1:B:460:ARG:O	1:B:461:TYR:C	2.54	0.44
1:B:468:VAL:CG2	1:B:549:LEU:HD13	2.47	0.44
1:B:885:GLU:HB3	1:B:923:PRO:CG	2.48	0.44
1:B:688:VAL:HB	1:B:1006:ARG:HH22	1.82	0.44
1:A:1014:ILE:CD1	1:A:1106:ARG:HH12	2.27	0.44
1:B:1196:ASP:HA	1:B:1226:ILE:CG1	2.48	0.44
1:B:1202:LEU:HG	1:B:1203:ASP:N	2.21	0.44
1:A:1030:ASN:HA	1:A:1056:VAL:O	2.17	0.44
1:B:1249:GLU:CD	1:B:1262:ILE:HB	2.37	0.44
1:A:1027:LEU:CD1	1:A:1027:LEU:H	2.30	0.44
1:A:247:GLY:O	1:A:250:ALA:HB3	2.17	0.44
1:A:112:TYR:CD2	1:A:112:TYR:N	2.85	0.44
1:B:788:VAL:HG21	1:B:1004:ILE:HD11	1.99	0.44
1:B:227:ILE:HG22	1:B:228:TRP:N	2.32	0.44
1:B:280:ALA:C	1:B:282:ARG:H	2.21	0.44
1:A:303:TYR:O	1:A:306:TYR:CB	2.60	0.44
1:A:726:VAL:HA	1:A:729:SER:OG	2.18	0.44
1:A:974:PHE:CE2	1:A:978:VAL:HB	2.52	0.44
1:A:449:ILE:HG21	1:A:457:ILE:HD13	2.00	0.44
1:A:476:PHE:O	1:A:520:VAL:HB	2.18	0.44
1:B:431:THR:HG22	1:B:435:LEU:HD23	1.99	0.44
1:B:449:ILE:HG21	1:B:457:ILE:HD13	2.00	0.44
1:A:925:ARG:HG2	1:B:514:HIS:ND1	2.33	0.44
1:B:689:PRO:N	1:B:690:PRO:CD	2.81	0.44
1:A:1023:LYS:HD2	1:A:1095:LYS:CE	2.48	0.44
1:A:1195:LEU:CD1	1:A:1195:LEU:N	2.81	0.44
1:A:258:ARG:O	1:A:261:ILE:N	2.51	0.44
1:A:267:LYS:HB3	1:A:790:LYS:HE3	1.99	0.44
1:A:282:ARG:HA	1:A:282:ARG:HD3	1.82	0.44
1:A:711:ILE:O	1:A:714:ALA:HB3	2.17	0.44
1:B:510:MET:SD	1:B:515:GLN:OE1	2.76	0.44
1:B:1252:THR:CG2	1:B:1255:GLN:HB2	2.47	0.44
1:B:208:TRP:O	1:B:209:LYS:HG2	2.18	0.44
1:B:751:PHE:CG	1:B:752:SER:N	2.86	0.44
1:A:214:ILE:HA	1:A:331:PHE:CE2	2.53	0.44
1:A:218:SER:O	1:A:219:PRO:C	2.56	0.44
1:A:969:ASN:C	1:A:969:ASN:HD22	2.15	0.44
1:A:969:ASN:O	1:A:972:LEU:HB2	2.18	0.44
1:A:147:PHE:CE2	1:A:365:ILE:HG12	2.53	0.44
1:A:39:PHE:CZ	1:A:178:ILE:HG23	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:927:ALA:HA	1:A:930:LYS:HG2	1.99	0.44
1:B:476:PHE:O	1:B:520:VAL:HB	2.18	0.44
1:B:255:ALA:C	1:B:257:ILE:N	2.71	0.44
1:A:1049:LEU:HD11	1:A:1052:LEU:HD22	2.00	0.44
1:B:112:TYR:CD2	1:B:112:TYR:N	2.86	0.44
1:B:210:LEU:HD23	1:B:317:VAL:CG1	2.41	0.43
1:B:710:GLY:O	1:B:711:ILE:C	2.55	0.43
1:B:71:PHE:HD2	1:B:71:PHE:C	2.22	0.43
1:B:777:GLY:HA3	1:B:822:LYS:HG3	2.00	0.43
1:B:60:HIS:O	1:B:63:ALA:CB	2.65	0.43
1:A:394:HIS:HB2	1:A:444:ASP:HB3	1.99	0.43
1:B:514:HIS:HB2	1:B:518:THR:OG1	2.18	0.43
1:A:711:ILE:HG23	1:A:712:PHE:N	2.33	0.43
1:B:1064:LEU:HD13	1:B:1064:LEU:C	2.38	0.43
1:A:113:TYR:CD1	1:A:113:TYR:C	2.91	0.43
1:A:589:ARG:C	1:A:591:ALA:N	2.62	0.43
1:A:1059:GLY:HA2	1:A:1222:THR:N	2.33	0.43
1:B:243:TYR:CD2	1:B:243:TYR:C	2.91	0.43
1:B:753:LEU:O	1:B:754:LEU:C	2.56	0.43
1:B:175:VAL:CG1	1:B:176:SER:H	2.31	0.43
1:B:57:ALA:O	1:B:60:HIS:HB3	2.17	0.43
1:A:156:ILE:HG23	1:A:439:LEU:CD1	2.48	0.43
1:A:185:LYS:NZ	1:A:186:ILE:HG22	2.33	0.43
1:A:936:ILE:HG23	1:A:937:THR:H	1.83	0.43
1:B:148:PHE:HD2	1:B:913:GLU:OE2	2.01	0.43
1:A:281:LYS:O	1:A:285:ILE:HB	2.18	0.43
1:A:285:ILE:HG22	1:A:286:LYS:HD2	1.99	0.43
1:B:1154:ILE:HD12	1:B:1161:TYR:CE2	2.53	0.43
1:A:1037:VAL:HA	1:A:1049:LEU:O	2.18	0.43
1:A:527:LEU:CD2	1:A:527:LEU:N	2.77	0.43
1:A:751:PHE:CG	1:A:752:SER:N	2.85	0.43
1:B:109:THR:O	1:B:113:TYR:HB3	2.17	0.43
1:B:388:LEU:HD22	1:B:413:VAL:HG11	2.00	0.43
1:B:509:ILE:C	1:B:509:ILE:HD12	2.39	0.43
1:B:339:PHE:CZ	2:B:6003:2J8:C21	3.01	0.43
1:B:784:LEU:O	1:B:788:VAL:HG23	2.18	0.43
1:B:159:PHE:HD2	1:B:440:TYR:OH	2.00	0.43
1:A:377:SER:O	1:A:458:ASN:ND2	2.51	0.43
1:A:912:PHE:O	1:A:913:GLU:C	2.57	0.43
1:B:533:GLN:HA	1:B:533:GLN:OE1	2.18	0.43
1:B:535:ILE:HG12	1:B:535:ILE:H	1.48	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1075:VAL:O	1:A:1076:VAL:C	2.55	0.43
1:A:993:ASP:C	1:A:995:ALA:H	2.21	0.43
1:B:1049:LEU:HD11	1:B:1052:LEU:HD22	2.00	0.43
1:A:751:PHE:CD1	1:A:752:SER:N	2.86	0.43
1:A:755:PHE:O	1:A:756:LEU:C	2.56	0.43
1:B:614:GLU:O	1:B:615:LYS:C	2.56	0.43
1:B:1056:VAL:HG21	1:B:1062:LEU:HB2	2.00	0.43
1:B:821:VAL:HG23	1:B:822:LYS:N	2.34	0.43
1:B:860:ILE:CG2	1:B:948:SER:HB3	2.48	0.43
1:A:727:ILE:HD11	1:A:753:LEU:HD23	2.00	0.43
1:A:139:GLN:O	1:A:140:ILE:C	2.55	0.43
1:A:361:VAL:C	1:A:365:ILE:HD12	2.38	0.43
1:A:482:GLU:O	1:A:484:ILE:N	2.51	0.43
1:A:538:ALA:O	1:A:539:ARG:C	2.56	0.43
1:B:428:GLY:O	1:B:432:THR:HG23	2.19	0.43
1:A:291:ALA:CA	1:A:294:SER:HB2	2.39	0.43
1:A:717:ASN:O	1:A:720:LEU:HB3	2.18	0.43
1:B:1114:GLN:OE1	1:B:1197:GLU:HB2	2.18	0.43
1:B:1260:LYS:HA	1:B:1264:PHE:HB2	2.00	0.43
1:B:592:ASP:O	1:B:593:VAL:HB	2.19	0.43
1:B:1193:LEU:HB2	1:B:1223:CYS:CB	2.48	0.43
1:B:1010:LYS:HB3	1:B:1012:PRO:HD2	2.00	0.43
1:B:307:ALA:HB1	1:B:754:LEU:HD22	1.99	0.43
1:A:718:GLY:HA3	1:A:837:ALA:CB	2.48	0.43
1:B:131:PHE:CZ	1:B:186:ILE:HG22	2.52	0.43
1:B:132:TRP:CG	1:B:183:GLY:HA3	2.53	0.43
1:B:183:GLY:O	1:B:184:ASP:C	2.55	0.43
1:B:345:SER:O	1:B:346:PRO:C	2.56	0.43
1:A:172:THR:O	1:A:175:VAL:CG1	2.66	0.43
1:A:388:LEU:HD22	1:A:413:VAL:HG11	2.01	0.43
1:A:492:THR:HB	1:A:495:GLU:OE2	2.18	0.43
1:B:387:ASN:N	1:B:450:ASP:HA	2.33	0.43
1:A:1019:THR:OG1	1:A:1101:ASN:CA	2.63	0.43
1:A:1042:THR:HG23	1:A:1042:THR:O	2.18	0.43
1:A:1151:HIS:HA	1:A:1154:ILE:HB	2.01	0.43
1:A:1175:GLY:O	1:A:1179:ARG:HG3	2.17	0.43
1:A:239:GLU:O	1:A:243:TYR:HB2	2.17	0.43
1:A:287:LYS:HA	1:A:290:THR:OG1	2.19	0.43
1:A:820:GLN:HG3	1:A:1000:SER:HB3	1.95	0.43
1:A:994:TYR:N	1:A:996:LYS:HZ1	2.16	0.43
1:A:95:ASP:O	1:A:99:MET:HB2	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:757:ILE:HG23	1:A:761:ILE:HD12	2.01	0.43
1:A:271:GLU:OE2	1:A:271:GLU:C	2.56	0.43
1:B:721:GLN:HG3	1:B:979:PHE:CE1	2.51	0.43
1:B:722:PRO:HG3	1:B:979:PHE:CZ	2.54	0.43
1:A:71:PHE:C	1:A:71:PHE:CD2	2.92	0.43
1:A:71:PHE:HD2	1:A:71:PHE:O	2.02	0.43
1:A:857:LEU:O	1:A:860:ILE:N	2.51	0.43
1:A:971:LEU:N	1:A:971:LEU:HD22	2.34	0.43
1:B:927:ALA:HA	1:B:930:LYS:HG2	2.00	0.43
1:A:140:ILE:HG13	1:A:179:ASN:ND2	2.23	0.43
1:A:366:ASP:O	1:A:367:ASN:C	2.56	0.43
1:B:158:TRP:O	1:B:158:TRP:HD1	2.01	0.43
1:B:449:ILE:O	1:B:450:ASP:C	2.56	0.43
1:A:1150:ILE:O	1:A:1150:ILE:HG13	2.19	0.43
1:B:802:ASP:CB	1:B:1041:PRO:HB2	2.48	0.43
1:B:404:GLN:HG2	1:B:404:GLN:O	2.17	0.43
1:B:405:ILE:HD12	1:B:427:CYS:CB	2.48	0.43
1:B:283:LEU:HA	1:B:778:GLU:OE2	2.18	0.43
1:B:727:ILE:HD11	1:B:753:LEU:HD23	2.00	0.43
1:A:116:GLY:O	1:A:117:ILE:C	2.56	0.43
1:B:934:PHE:HD1	1:B:934:PHE:H	1.66	0.43
1:A:150:ALA:O	1:A:153:ASN:N	2.43	0.43
1:A:480:ILE:C	1:A:482:GLU:N	2.71	0.43
1:A:530:GLY:O	1:A:531:GLN:C	2.56	0.43
1:B:438:ARG:CZ	1:B:455:ARG:HA	2.48	0.43
1:A:764:ILE:O	1:A:768:LEU:HD23	2.19	0.43
1:A:785:ARG:NH2	1:A:815:ALA:HA	2.30	0.43
1:A:692:SER:O	1:A:692:SER:OG	2.37	0.43
1:B:1123:ILE:HG12	1:B:1124:ALA:H	1.82	0.43
1:B:1150:ILE:O	1:B:1150:ILE:HG13	2.18	0.43
1:B:1196:ASP:HA	1:B:1226:ILE:HG13	2.00	0.43
1:B:573:ARG:C	1:B:575:GLY:H	2.22	0.43
1:B:886:LEU:HD12	1:B:886:LEU:C	2.39	0.43
1:A:1252:THR:CG2	1:A:1255:GLN:HB2	2.48	0.43
1:B:1031:VAL:HB	1:B:1056:VAL:CG1	2.49	0.43
1:B:271:GLU:OE2	1:B:271:GLU:C	2.57	0.43
1:B:320:LYS:O	1:B:321:GLU:O	2.36	0.43
1:A:209:LYS:C	1:A:212:LEU:HB3	2.38	0.43
1:A:71:PHE:HD2	1:A:71:PHE:C	2.22	0.43
1:B:136:ALA:CB	1:B:182:ILE:HB	2.40	0.43
1:A:369:PRO:O	1:A:370:SER:C	2.57	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:393:ILE:CG1	1:A:409:LEU:HB3	2.48	0.43
1:B:389:GLU:OE1	1:B:412:LYS:HB2	2.18	0.43
1:A:1025:ASN:CG	1:A:1025:ASN:O	2.57	0.43
1:A:1123:ILE:HG12	1:A:1124:ALA:N	2.33	0.43
1:A:279:GLU:CG	1:A:782:LYS:HD2	2.48	0.43
1:B:1138:TYR:O	1:B:1141:ILE:HG12	2.18	0.43
1:B:1143:ARG:O	1:B:1146:LYS:HB2	2.18	0.43
1:A:114:TYR:CG	1:A:950:ALA:CB	3.01	0.43
1:A:308:LEU:CA	1:A:751:PHE:HE2	2.32	0.43
1:A:1250:HIS:N	1:A:1256:LEU:HD21	2.34	0.43
1:B:303:TYR:O	1:B:306:TYR:N	2.51	0.43
1:B:751:PHE:CD1	1:B:752:SER:N	2.87	0.43
1:B:821:VAL:O	1:B:822:LYS:C	2.58	0.43
1:A:202:ILE:C	1:A:204:PHE:H	2.22	0.43
1:A:170:ARG:HB2	1:A:174:ASP:CG	2.39	0.43
1:A:429:LYS:O	1:A:432:THR:OG1	2.30	0.43
1:A:387:ASN:N	1:A:450:ASP:HA	2.33	0.43
1:B:389:GLU:O	1:B:447:VAL:HA	2.19	0.43
1:B:435:LEU:HD13	1:B:435:LEU:HA	1.82	0.43
1:A:707:PHE:O	1:A:710:GLY:N	2.51	0.43
1:B:1126:ASN:O	1:B:1129:TYR:CG	2.72	0.43
1:B:247:GLY:O	1:B:250:ALA:HB3	2.18	0.43
1:B:756:LEU:O	1:B:760:ILE:HB	2.17	0.43
1:B:784:LEU:O	1:B:785:ARG:C	2.56	0.43
1:B:814:LEU:HD22	1:B:814:LEU:N	2.34	0.43
1:A:217:ILE:HD11	1:A:331:PHE:HE2	1.84	0.43
1:A:324:ILE:O	1:A:325:GLY:C	2.58	0.43
1:A:326:GLN:O	1:A:327:VAL:C	2.57	0.43
1:A:727:ILE:HG22	1:A:728:PHE:N	2.34	0.43
1:B:128:GLN:O	1:B:129:VAL:C	2.56	0.43
1:B:135:ALA:O	1:B:136:ALA:C	2.57	0.43
1:A:356:GLY:O	1:A:357:ALA:C	2.56	0.43
1:B:492:THR:O	1:B:494:ASP:N	2.52	0.43
1:A:1114:GLN:O	1:A:1116:PRO:HD3	2.19	0.43
1:B:520:VAL:CG1	1:B:524:GLY:HA2	2.49	0.43
1:B:1092:LEU:HB3	1:B:1097:ILE:CD1	2.44	0.43
1:B:1109:LEU:HD21	1:B:1188:ARG:NH1	2.33	0.43
1:A:81:VAL:HG13	1:A:99:MET:HG3	2.01	0.43
1:B:413:VAL:HG21	1:B:419:VAL:CG1	2.48	0.43
1:A:601:VAL:HG13	1:A:601:VAL:O	2.19	0.43
1:B:266:GLN:HB2	1:B:270:LEU:HD21	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:278:GLU:O	1:B:282:ARG:NH1	2.52	0.42
1:B:857:LEU:O	1:B:860:ILE:N	2.52	0.42
1:B:967:PHE:N	1:B:967:PHE:CD2	2.86	0.42
1:A:318:ILE:HD11	1:A:324:ILE:H	1.84	0.42
1:A:857:LEU:HD12	1:A:973:VAL:HG13	1.99	0.42
1:B:54:THR:O	1:B:57:ALA:HB3	2.18	0.42
1:B:936:ILE:HG23	1:B:937:THR:H	1.83	0.42
1:A:421:LEU:N	1:A:421:LEU:HD12	2.34	0.42
1:A:492:THR:O	1:A:494:ASP:N	2.52	0.42
1:A:896:ALA:O	1:A:897:ILE:C	2.56	0.42
1:B:393:ILE:CG1	1:B:409:LEU:HB3	2.49	0.42
1:B:492:THR:HB	1:B:495:GLU:OE2	2.18	0.42
1:B:484:ILE:CG2	1:B:542:VAL:HG21	2.46	0.42
1:A:1022:LEU:O	1:A:1022:LEU:HD23	2.18	0.42
1:A:1026:MET:SD	1:A:1104:TRP:CH2	3.12	0.42
1:A:282:ARG:HB3	1:A:778:GLU:CG	2.45	0.42
1:A:792:MET:CE	1:A:810:LEU:HD22	2.49	0.42
1:A:790:LYS:O	1:A:793:LEU:N	2.52	0.42
1:B:1143:ARG:HG2	1:B:1143:ARG:HH11	1.83	0.42
1:B:1178:GLN:OE1	1:B:1178:GLN:HA	2.19	0.42
1:A:1204:THR:HG23	1:A:1206:SER:H	1.84	0.42
1:A:102:LYS:CA	1:A:102:LYS:HE3	2.44	0.42
1:A:1229:ARG:HD2	1:A:1229:ARG:HA	1.81	0.42
1:B:120:GLY:O	1:B:121:VAL:C	2.56	0.42
1:B:200:PHE:O	1:B:201:ILE:C	2.57	0.42
1:B:304:ALA:CA	1:B:758:LEU:HD23	2.49	0.42
1:B:304:ALA:O	1:B:307:ALA:HB3	2.19	0.42
1:B:717:ASN:O	1:B:720:LEU:HB3	2.18	0.42
1:B:986:GLN:C	1:B:988:SER:H	2.23	0.42
1:A:722:PRO:CB	1:A:841:THR:HB	2.50	0.42
1:A:722:PRO:HG3	1:A:979:PHE:CZ	2.54	0.42
1:B:140:ILE:HG13	1:B:179:ASN:ND2	2.23	0.42
1:B:185:LYS:NZ	1:B:186:ILE:HG22	2.34	0.42
1:A:346:PRO:O	1:A:349:GLU:HB3	2.18	0.42
1:A:389:GLU:O	1:A:447:VAL:HA	2.19	0.42
1:A:536:ALA:O	1:A:537:ILE:C	2.58	0.42
1:B:473:PRO:HB3	1:B:533:GLN:CA	2.48	0.42
1:B:482:GLU:O	1:B:484:ILE:N	2.52	0.42
1:B:492:THR:C	1:B:494:ASP:H	2.23	0.42
1:A:1064:LEU:C	1:A:1064:LEU:HD13	2.39	0.42
1:A:1117:ILE:O	1:A:1184:ARG:NH2	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1143:ARG:HH11	1:A:1143:ARG:HG2	1.84	0.42
1:A:686:GLU:HB2	1:A:687:ASP:H	1.61	0.42
1:A:705:PRO:O	1:A:706:TYR:HB3	2.19	0.42
1:A:810:LEU:O	1:A:813:ARG:N	2.52	0.42
1:A:993:ASP:O	1:A:994:TYR:HB3	2.18	0.42
1:A:827:SER:OG	1:A:994:TYR:HD2	2.02	0.42
1:B:827:SER:OG	1:B:994:TYR:HD2	2.02	0.42
1:A:1202:LEU:HG	1:A:1203:ASP:N	2.22	0.42
1:A:402:GLU:OE2	1:A:402:GLU:CA	2.67	0.42
1:B:718:GLY:HA3	1:B:837:ALA:CB	2.49	0.42
1:B:732:VAL:O	1:B:736:THR:HG23	2.19	0.42
1:B:860:ILE:HG21	1:B:948:SER:HB3	2.01	0.42
1:B:971:LEU:HD22	1:B:971:LEU:N	2.34	0.42
1:B:972:LEU:CD1	1:B:972:LEU:H	2.31	0.42
1:A:722:PRO:HB2	1:A:841:THR:HG21	2.01	0.42
1:B:346:PRO:O	1:B:347:ASN:C	2.57	0.42
1:A:140:ILE:O	1:A:141:HIS:C	2.57	0.42
1:A:381:PRO:O	1:A:461:TYR:OH	2.33	0.42
1:A:449:ILE:HD13	1:A:450:ASP:HB2	2.01	0.42
1:A:535:ILE:O	1:A:536:ALA:C	2.58	0.42
1:A:892:ILE:CG1	1:A:916:TYR:HE1	2.32	0.42
1:B:912:PHE:O	1:B:913:GLU:C	2.58	0.42
1:A:1026:MET:HE2	1:A:1095:LYS:HD3	2.01	0.42
1:A:1196:ASP:HA	1:A:1226:ILE:HG13	1.99	0.42
1:A:708:VAL:CG1	1:A:709:VAL:N	2.83	0.42
1:B:964:LEU:CD1	1:B:965:MET:N	2.72	0.42
1:B:375:SER:HB2	1:B:376:LYS:NZ	2.33	0.42
1:A:1153:PHE:O	1:A:1157:LEU:HD23	2.19	0.42
1:B:1081:ARG:O	1:B:1081:ARG:HG2	2.19	0.42
1:B:83:ASN:HD22	1:B:83:ASN:HA	1.53	0.42
1:B:764:ILE:O	1:B:768:LEU:HD23	2.19	0.42
1:B:782:LYS:O	1:B:783:ARG:C	2.57	0.42
1:B:789:PHE:HD2	1:B:789:PHE:O	2.01	0.42
1:B:711:ILE:CD1	1:B:832:ILE:HG21	2.27	0.42
1:B:74:MET:SD	1:B:953:PHE:CE1	3.13	0.42
1:A:217:ILE:HD11	1:A:331:PHE:CE2	2.55	0.42
1:A:214:ILE:HG12	1:A:331:PHE:CG	2.53	0.42
1:A:718:GLY:CA	1:A:837:ALA:HB2	2.50	0.42
1:B:132:TRP:CD2	1:B:183:GLY:CA	3.03	0.42
1:A:409:LEU:HD13	1:A:409:LEU:C	2.39	0.42
1:A:457:ILE:CD1	1:A:462:LEU:HD13	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:MET:O	1:A:51:LEU:C	2.56	0.42
1:A:539:ARG:O	1:A:542:VAL:N	2.52	0.42
1:A:897:ILE:O	1:A:898:GLU:C	2.57	0.42
1:A:885:GLU:HB3	1:A:923:PRO:CG	2.49	0.42
1:B:433:VAL:O	1:B:436:MET:N	2.41	0.42
1:A:1023:LYS:HD2	1:A:1095:LYS:HE2	2.01	0.42
1:A:278:GLU:O	1:A:279:GLU:C	2.57	0.42
1:A:708:VAL:O	1:A:709:VAL:C	2.58	0.42
1:A:293:ILE:HG22	1:A:766:PHE:HB3	2.01	0.42
1:A:1035:GLY:C	1:A:1052:LEU:O	2.57	0.42
1:B:993:ASP:O	1:B:994:TYR:HB3	2.20	0.42
1:B:1050:GLN:HG2	1:B:1245:GLY:CA	2.49	0.42
1:A:987:VAL:HG22	1:A:987:VAL:O	2.19	0.42
1:B:212:LEU:O	1:B:214:ILE:N	2.52	0.42
1:B:757:ILE:HG23	1:B:761:ILE:HD12	2.02	0.42
1:B:792:MET:CE	1:B:810:LEU:HD22	2.49	0.42
1:B:859:ALA:O	1:B:863:ILE:CG1	2.60	0.42
1:A:208:TRP:O	1:A:209:LYS:CE	2.68	0.42
1:A:753:LEU:O	1:A:754:LEU:C	2.58	0.42
1:A:836:ILE:O	1:A:837:ALA:C	2.55	0.42
1:B:357:ALA:O	1:B:361:VAL:HG13	2.19	0.42
1:A:369:PRO:O	1:A:370:SER:O	2.38	0.42
1:B:535:ILE:O	1:B:538:ALA:HB3	2.20	0.42
1:A:790:LYS:CB	1:A:794:ARG:NH2	2.82	0.42
1:B:388:LEU:N	1:B:388:LEU:CD1	2.81	0.42
1:A:506:TYR:O	1:A:509:ILE:HG13	2.19	0.42
1:A:727:ILE:CG2	1:A:728:PHE:N	2.83	0.42
1:A:848:ILE:O	1:A:849:TYR:O	2.38	0.42
1:A:972:LEU:H	1:A:972:LEU:CD1	2.33	0.42
1:B:47:ARG:O	1:B:48:LEU:C	2.57	0.42
1:A:132:TRP:CG	1:A:183:GLY:HA3	2.54	0.42
1:B:464:GLU:C	1:B:466:ILE:H	2.22	0.42
1:A:114:TYR:O	1:A:115:THR:C	2.55	0.42
1:B:1153:PHE:HA	1:B:1157:LEU:HD23	2.01	0.42
1:A:83:ASN:HA	1:A:83:ASN:HD22	1.50	0.42
1:A:1263:TYR:O	1:A:1266:MET:HB2	2.20	0.42
1:B:318:ILE:HG23	1:B:735:PHE:CZ	2.54	0.42
1:B:75:THR:HB	1:B:326:GLN:HE22	1.84	0.42
1:B:754:LEU:O	1:B:754:LEU:HD23	2.19	0.42
1:B:792:MET:O	1:B:793:LEU:C	2.58	0.42
1:A:727:ILE:HD12	1:A:754:LEU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:860:ILE:CG2	1:A:948:SER:HB3	2.50	0.42
1:A:732:VAL:CG2	1:A:971:LEU:HG	2.50	0.42
1:B:439:LEU:HB3	1:B:440:TYR:H	1.71	0.42
1:A:357:ALA:O	1:A:361:VAL:HG13	2.19	0.42
1:B:379:HIS:CD2	1:B:380:LYS:N	2.84	0.42
1:B:454:ILE:O	1:B:457:ILE:HG12	2.20	0.42
1:B:530:GLY:O	1:B:531:GLN:C	2.57	0.42
1:B:531:GLN:O	1:B:535:ILE:HG12	2.20	0.42
1:A:821:VAL:HG23	1:A:822:LYS:N	2.34	0.42
1:A:584:ARG:O	1:A:585:LEU:C	2.57	0.42
1:B:585:LEU:HD22	1:B:585:LEU:N	2.33	0.42
1:B:1153:PHE:O	1:B:1157:LEU:HD23	2.20	0.42
1:B:875:LEU:C	1:B:875:LEU:HD23	2.40	0.42
1:B:727:ILE:HD12	1:B:754:LEU:CB	2.50	0.42
1:B:796:ASP:O	1:B:797:VAL:CB	2.67	0.42
1:B:810:LEU:O	1:B:811:THR:C	2.58	0.42
1:A:730:LYS:O	1:A:731:VAL:C	2.58	0.42
1:A:968:GLU:O	1:A:971:LEU:HD23	2.20	0.42
1:B:349:GLU:O	1:B:352:ALA:HB3	2.20	0.42
1:A:394:HIS:O	1:A:443:LEU:HB3	2.19	0.42
1:A:464:GLU:C	1:A:466:ILE:N	2.72	0.42
1:A:483:ASN:O	1:A:486:TYR:HB2	2.20	0.42
1:A:535:ILE:HG12	1:A:535:ILE:H	1.46	0.42
1:A:934:PHE:HD1	1:A:934:PHE:H	1.66	0.42
1:A:1143:ARG:O	1:A:1146:LYS:HB2	2.20	0.42
1:A:1218:ARG:C	1:A:1220:GLY:H	2.23	0.42
1:A:1064:LEU:HB3	1:A:1226:ILE:HA	2.00	0.42
1:A:270:LEU:CB	1:A:789:PHE:CE1	3.02	0.42
1:A:711:ILE:CG1	1:A:715:ILE:HD11	2.49	0.42
1:B:376:LYS:N	1:B:376:LYS:HD2	2.35	0.42
1:B:114:TYR:O	1:B:115:THR:C	2.58	0.42
1:A:509:ILE:HD11	1:A:510:MET:HG2	2.01	0.42
1:A:1241:VAL:HB	1:A:1249:GLU:HB2	2.00	0.42
1:B:1057:LYS:H	1:B:1057:LYS:CD	2.33	0.42
1:B:765:THR:CG2	1:B:766:PHE:N	2.83	0.42
1:B:812:THR:O	1:B:813:ARG:C	2.58	0.42
1:A:333:SER:O	1:A:336:ILE:HB	2.19	0.42
1:B:49:TYR:OH	1:B:130:SER:CB	2.60	0.42
1:A:163:ASP:O	1:A:165:GLY:N	2.50	0.42
1:A:1022:LEU:HG	1:A:1104:TRP:HE1	1.74	0.42
1:A:817:ASP:OD1	1:A:1000:SER:CB	2.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:827:SER:O	1:A:830:ALA:N	2.52	0.42
1:B:509:ILE:HD11	1:B:510:MET:HG2	2.01	0.42
1:A:1062:LEU:C	1:A:1062:LEU:HD13	2.40	0.42
1:A:566:GLN:CD	1:A:569:LEU:HD12	2.40	0.42
1:B:324:ILE:O	1:B:325:GLY:C	2.58	0.42
1:B:749:ASN:O	1:B:752:SER:N	2.53	0.42
1:B:788:VAL:O	1:B:789:PHE:C	2.58	0.42
1:A:74:MET:SD	1:A:953:PHE:HE1	2.38	0.42
1:A:307:ALA:HB1	1:A:754:LEU:HD22	1.98	0.42
1:A:373:SER:O	1:A:374:PHE:CB	2.44	0.42
1:A:388:LEU:HD12	1:A:388:LEU:H	1.84	0.42
1:A:421:LEU:O	1:A:581:ILE:HD12	2.20	0.42
1:B:490:ASP:O	1:B:491:VAL:CB	2.68	0.42
1:B:921:GLN:CG	1:B:922:ILE:N	2.81	0.42
1:A:1001:ALA:O	1:A:1005:ILE:CG1	2.63	0.42
1:A:1023:LYS:C	1:A:1025:ASN:H	2.23	0.42
1:A:1026:MET:C	1:A:1028:GLU:H	2.23	0.42
1:A:263:PHE:CE1	1:A:1129:TYR:HB3	2.54	0.42
1:A:1131:ASP:OD2	1:A:1188:ARG:NE	2.53	0.42
1:B:1239:ILE:H	1:B:1239:ILE:HD12	1.84	0.42
1:A:827:SER:O	1:A:829:LEU:N	2.52	0.42
1:A:1063:ALA:HA	1:A:1225:VAL:CG1	2.49	0.42
1:A:1052:LEU:HG	1:A:1054:LEU:CD2	2.50	0.42
1:B:552:GLU:HB3	1:B:555:SER:OG	2.19	0.42
1:B:388:LEU:H	1:B:388:LEU:HD12	1.85	0.42
1:B:1042:THR:HG23	1:B:1042:THR:O	2.20	0.42
1:B:91:MET:HG3	1:B:91:MET:H	1.49	0.42
1:B:1058:LYS:HE3	1:B:1058:LYS:HB2	1.86	0.42
1:A:173:ASP:O	1:A:177:LYS:HG3	2.19	0.42
1:B:609:ASP:O	1:B:613:ARG:HB2	2.20	0.42
1:B:844:ILE:O	1:B:847:LEU:HB2	2.20	0.41
1:A:303:TYR:C	1:A:303:TYR:CD1	2.93	0.41
1:A:324:ILE:C	1:A:326:GLN:H	2.22	0.41
1:A:318:ILE:CG1	1:A:735:PHE:CZ	3.03	0.41
1:A:75:THR:HB	1:A:326:GLN:HE22	1.84	0.41
1:A:534:ARG:HH21	1:A:564:VAL:CG1	2.29	0.41
1:A:1011:THR:HG23	1:A:1011:THR:O	2.20	0.41
1:A:1127:ILE:C	1:A:1129:TYR:H	2.17	0.41
1:A:243:TYR:CD2	1:A:243:TYR:C	2.92	0.41
1:A:282:ARG:O	1:A:283:LEU:C	2.58	0.41
1:A:789:PHE:HD2	1:A:789:PHE:O	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1128:ALA:HB2	1:B:1141:ILE:CG2	2.38	0.41
1:B:1147:GLU:CB	1:B:1186:LEU:HD22	2.46	0.41
1:B:1076:VAL:HG13	1:B:1194:LEU:CD1	2.45	0.41
1:B:1241:VAL:HB	1:B:1249:GLU:HB2	2.01	0.41
1:B:1248:LYS:HG2	1:B:1262:ILE:CD1	2.48	0.41
1:B:867:ALA:O	1:B:870:VAL:HG12	2.20	0.41
1:B:1250:HIS:N	1:B:1256:LEU:HD21	2.35	0.41
1:B:116:GLY:O	1:B:117:ILE:C	2.58	0.41
1:B:239:GLU:HG3	1:B:288:ALA:HB2	1.98	0.41
1:B:295:MET:C	1:B:297:ALA:N	2.73	0.41
1:B:790:LYS:CB	1:B:794:ARG:NH2	2.82	0.41
1:B:843:ILE:O	1:B:846:SER:HB2	2.20	0.41
1:B:95:ASP:O	1:B:99:MET:HB2	2.20	0.41
1:A:492:THR:C	1:A:494:ASP:H	2.24	0.41
1:A:890:GLY:O	1:A:893:ALA:HB3	2.20	0.41
1:B:464:GLU:C	1:B:466:ILE:N	2.74	0.41
1:B:489:GLU:O	1:B:491:VAL:HG12	2.19	0.41
1:A:814:LEU:N	1:A:814:LEU:HD22	2.34	0.41
1:B:1113:SER:OG	1:B:1114:GLN:N	2.53	0.41
1:B:1114:GLN:O	1:B:1116:PRO:HD3	2.19	0.41
1:A:1052:LEU:HD11	1:A:1054:LEU:HD21	2.02	0.41
1:B:611:LEU:HA	1:B:614:GLU:HB3	2.02	0.41
1:B:229:ALA:HB1	1:B:299:PHE:CE2	2.54	0.41
1:B:100:PHE:O	1:B:103:LEU:HB3	2.21	0.41
1:B:715:ILE:O	1:B:718:GLY:N	2.53	0.41
1:B:775:LYS:O	1:B:776:ALA:C	2.58	0.41
1:A:318:ILE:CD1	1:A:324:ILE:H	2.32	0.41
1:B:150:ALA:O	1:B:151:ILE:C	2.58	0.41
1:B:354:ALA:O	1:B:358:ALA:HB2	2.20	0.41
1:B:147:PHE:CG	1:B:365:ILE:HG12	2.56	0.41
1:A:128:GLN:CG	1:A:129:VAL:N	2.82	0.41
1:A:155:GLU:HB3	1:A:156:ILE:CD1	2.45	0.41
1:A:466:ILE:HG22	1:A:468:VAL:HG23	2.02	0.41
1:A:490:ASP:O	1:A:491:VAL:CB	2.67	0.41
1:A:902:THR:C	1:A:904:VAL:HG12	2.41	0.41
1:A:905:SER:O	1:A:907:THR:HG23	2.20	0.41
1:A:938:PHE:O	1:A:941:THR:N	2.53	0.41
1:B:480:ILE:C	1:B:482:GLU:N	2.70	0.41
1:B:543:ARG:NH1	1:B:543:ARG:HG2	2.35	0.41
1:A:1081:ARG:O	1:A:1081:ARG:HG2	2.20	0.41
1:A:1113:SER:OG	1:A:1114:GLN:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1179:ARG:O	1:A:1182:ILE:HB	2.20	0.41
1:A:239:GLU:HB3	1:A:285:ILE:HG13	1.99	0.41
1:A:266:GLN:HB2	1:A:270:LEU:HD21	2.01	0.41
1:B:1028:GLU:O	1:B:1093:ASP:OD1	2.39	0.41
1:B:1151:HIS:HA	1:B:1154:ILE:HB	2.02	0.41
1:A:604:GLU:HG3	1:A:604:GLU:H	1.52	0.41
1:B:1076:VAL:HG13	1:B:1194:LEU:CD2	2.46	0.41
1:B:290:THR:CG2	1:B:771:PHE:HA	2.51	0.41
1:B:787:MET:O	1:B:790:LYS:HB2	2.21	0.41
1:B:722:PRO:HB2	1:B:841:THR:HG21	2.03	0.41
1:A:722:PRO:HG2	1:A:841:THR:HG1	1.82	0.41
1:A:74:MET:SD	1:A:953:PHE:CD1	3.13	0.41
1:B:155:GLU:HB3	1:B:156:ILE:CD1	2.46	0.41
1:A:362:PHE:CA	1:A:365:ILE:HD12	2.47	0.41
1:A:478:THR:HG22	1:A:482:GLU:HG3	1.99	0.41
1:A:467:GLY:H	1:A:545:PRO:HG3	1.82	0.41
1:B:897:ILE:O	1:B:898:GLU:C	2.58	0.41
1:B:892:ILE:CG1	1:B:916:TYR:HE1	2.33	0.41
1:A:1000:SER:O	1:A:1004:ILE:HG22	2.20	0.41
1:A:1144:ALA:CA	1:A:1186:LEU:HD11	2.30	0.41
1:A:762:SER:C	1:A:765:THR:HG22	2.41	0.41
1:B:1131:ASP:OD2	1:B:1188:ARG:NE	2.53	0.41
1:A:1052:LEU:HG	1:A:1053:SER:H	1.84	0.41
1:B:1261:GLY:N	1:B:1264:PHE:HB3	2.20	0.41
1:B:420:ALA:O	1:B:421:LEU:HD12	2.19	0.41
1:B:421:LEU:N	1:B:421:LEU:HD12	2.35	0.41
1:A:1031:VAL:HB	1:A:1056:VAL:CG1	2.49	0.41
1:A:1058:LYS:HB2	1:A:1058:LYS:HE3	1.87	0.41
1:A:1050:GLN:HG2	1:A:1245:GLY:CA	2.49	0.41
1:B:415:SER:HA	1:B:577:THR:HB	2.01	0.41
1:B:987:VAL:HG22	1:B:987:VAL:O	2.21	0.41
1:B:303:TYR:CD1	1:B:303:TYR:C	2.94	0.41
1:B:309:ALA:O	1:B:310:PHE:O	2.39	0.41
1:B:817:ASP:OD1	1:B:1000:SER:CB	2.68	0.41
1:A:967:PHE:CD1	1:A:968:GLU:N	2.88	0.41
1:B:170:ARG:HB2	1:B:174:ASP:CG	2.40	0.41
1:B:133:CYS:HB3	1:B:931:ALA:CB	2.50	0.41
1:B:928:MET:O	1:B:931:ALA:HB3	2.20	0.41
1:A:346:PRO:O	1:A:347:ASN:C	2.54	0.41
1:A:383:ASN:O	1:A:384:ILE:HB	2.20	0.41
1:A:592:ASP:O	1:A:593:VAL:HB	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1076:VAL:HG13	1:A:1194:LEU:CD1	2.45	0.41
1:A:1138:TYR:HA	1:A:1141:ILE:HG12	2.03	0.41
1:A:1177:LYS:O	1:A:1180:ILE:N	2.53	0.41
1:A:1147:GLU:CB	1:A:1186:LEU:HD22	2.48	0.41
1:B:1102:VAL:CG1	1:B:1103:GLN:N	2.83	0.41
1:A:1202:LEU:CG	1:A:1203:ASP:N	2.81	0.41
1:A:756:LEU:O	1:A:760:ILE:HB	2.20	0.41
1:A:961:THR:O	1:A:962:GLN:CB	2.69	0.41
1:B:197:PHE:O	1:B:201:ILE:N	2.54	0.41
1:B:215:LEU:HA	1:B:219:PRO:CD	2.49	0.41
1:B:314:THR:O	1:B:316:LEU:N	2.54	0.41
1:B:327:VAL:O	1:B:328:LEU:C	2.59	0.41
1:B:727:ILE:HD11	1:B:753:LEU:HB3	2.01	0.41
1:A:327:VAL:O	1:A:328:LEU:C	2.59	0.41
1:A:354:ALA:O	1:A:355:ARG:C	2.57	0.41
1:A:913:GLU:CA	1:A:913:GLU:OE2	2.63	0.41
1:B:896:ALA:O	1:B:897:ILE:C	2.59	0.41
1:A:1109:LEU:N	1:A:1109:LEU:HD23	2.35	0.41
1:A:1166:GLY:O	1:A:1167:ASP:CB	2.64	0.41
1:A:255:ALA:C	1:A:257:ILE:N	2.73	0.41
1:B:1150:ILE:O	1:B:1154:ILE:CG1	2.68	0.41
1:A:1203:ASP:C	1:A:1204:THR:HG22	2.40	0.41
1:A:103:LEU:HB2	1:A:960:VAL:HG23	2.02	0.41
1:B:1078:LEU:O	1:B:1081:ARG:N	2.53	0.41
1:B:173:ASP:O	1:B:177:LYS:HG3	2.21	0.41
1:A:92:SER:O	1:A:96:LYS:HG3	2.20	0.41
1:B:1000:SER:O	1:B:1004:ILE:HG22	2.21	0.41
1:B:295:MET:O	1:B:298:ALA:N	2.53	0.41
1:B:718:GLY:CA	1:B:837:ALA:HB2	2.51	0.41
1:B:776:ALA:O	1:B:780:LEU:HG	2.21	0.41
1:B:717:ASN:HB3	1:B:833:PHE:CE1	2.56	0.41
1:B:833:PHE:CG	1:B:834:GLN:N	2.88	0.41
1:B:968:GLU:O	1:B:971:LEU:HD23	2.21	0.41
1:A:978:VAL:HG22	2:A:6001:2J8:H29	2.01	0.41
1:A:973:VAL:O	1:A:974:PHE:C	2.59	0.41
1:B:358:ALA:O	1:B:362:PHE:N	2.52	0.41
1:B:133:CYS:CB	1:B:931:ALA:HB1	2.50	0.41
1:A:921:GLN:CG	1:A:922:ILE:N	2.84	0.41
1:B:449:ILE:HD13	1:B:450:ASP:HB2	2.03	0.41
1:B:387:ASN:O	1:B:450:ASP:O	2.39	0.41
1:B:1109:LEU:N	1:B:1109:LEU:HD23	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1052:LEU:HD11	1:B:1054:LEU:HD21	2.02	0.41
1:A:1260:LYS:HA	1:A:1264:PHE:HB2	2.01	0.41
1:A:954:ARG:HE	1:A:955:PHE:HA	1.85	0.41
1:A:1192:ILE:HA	1:A:1222:THR:O	2.21	0.41
1:A:875:LEU:C	1:A:875:LEU:HD23	2.41	0.41
1:B:762:SER:O	1:B:764:ILE:N	2.54	0.41
1:B:843:ILE:HA	1:B:846:SER:CB	2.50	0.41
1:B:946:TYR:CG	1:B:947:PHE:N	2.89	0.41
1:A:727:ILE:HD11	1:A:753:LEU:HB3	2.02	0.41
1:A:730:LYS:NZ	1:A:750:LEU:HD21	2.36	0.41
1:A:354:ALA:O	1:A:358:ALA:HB2	2.19	0.41
1:A:480:ILE:O	1:A:482:GLU:N	2.54	0.41
1:A:148:PHE:HB3	1:A:913:GLU:OE1	2.21	0.41
1:B:491:VAL:HG23	1:B:495:GLU:OE1	2.21	0.41
1:A:1017:TYR:HB3	1:A:1018:SER:H	1.42	0.41
1:A:712:PHE:O	1:A:713:CYS:C	2.58	0.41
1:A:788:VAL:O	1:A:791:SER:HB2	2.21	0.41
1:A:797:VAL:CG1	1:A:798:SER:H	2.20	0.41
1:A:814:LEU:CD2	1:A:814:LEU:H	2.34	0.41
1:B:604:GLU:HG3	1:B:604:GLU:H	1.51	0.41
1:B:507:ASP:OD1	1:B:508:PHE:N	2.37	0.41
1:B:1059:GLY:HA2	1:B:1222:THR:N	2.35	0.41
1:A:1056:VAL:HG21	1:A:1062:LEU:HB2	2.01	0.41
1:A:1065:VAL:HG13	1:A:1241:VAL:HG22	2.02	0.41
1:A:229:ALA:HB1	1:A:299:PHE:CE2	2.55	0.41
1:B:402:GLU:CA	1:B:402:GLU:OE2	2.68	0.41
1:B:308:LEU:HD13	1:B:755:PHE:CD1	2.55	0.41
1:B:730:LYS:NZ	1:B:750:LEU:HD21	2.36	0.41
1:B:778:GLU:O	1:B:779:ILE:C	2.58	0.41
1:B:789:PHE:O	1:B:792:MET:HB2	2.20	0.41
1:B:757:ILE:HG22	1:B:758:LEU:N	2.35	0.41
1:B:713:CYS:SG	1:B:769:GLN:HB3	2.61	0.41
1:A:722:PRO:O	1:A:725:SER:OG	2.32	0.41
1:A:986:GLN:C	1:A:988:SER:H	2.24	0.41
1:A:214:ILE:HG21	1:A:334:VAL:HG11	2.01	0.41
1:A:728:PHE:C	1:A:728:PHE:CD1	2.95	0.41
1:B:178:ILE:HG13	1:B:178:ILE:H	1.73	0.41
1:B:356:GLY:O	1:B:358:ALA:N	2.54	0.41
1:B:185:LYS:HE3	1:B:185:LYS:HB3	1.90	0.41
1:B:58:ILE:CD1	1:B:58:ILE:H	2.33	0.41
1:A:39:PHE:CE2	1:A:358:ALA:HB3	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:358:ALA:O	1:A:362:PHE:N	2.54	0.41
1:A:438:ARG:O	1:A:439:LEU:O	2.39	0.41
1:A:531:GLN:O	1:A:532:LYS:C	2.57	0.41
1:B:457:ILE:CD1	1:B:462:LEU:HD13	2.49	0.41
1:B:432:THR:OG1	1:B:433:VAL:N	2.53	0.41
1:A:1020:GLN:C	1:A:1020:GLN:OE1	2.59	0.41
1:A:251:GLU:O	1:A:252:GLU:HB2	2.21	0.41
1:A:267:LYS:O	1:A:790:LYS:NZ	2.52	0.41
1:A:282:ARG:HD3	1:A:286:LYS:NZ	2.36	0.41
1:A:713:CYS:SG	1:A:769:GLN:HB3	2.61	0.41
1:A:782:LYS:O	1:A:783:ARG:C	2.58	0.41
1:A:1109:LEU:HD23	1:A:1109:LEU:H	1.86	0.41
1:A:711:ILE:HD11	1:A:832:ILE:CG2	2.29	0.41
1:B:1052:LEU:HG	1:B:1054:LEU:CD2	2.50	0.41
1:B:1037:VAL:HG22	1:B:1087:ALA:HB3	1.99	0.41
1:B:1054:LEU:HD22	1:B:1054:LEU:N	2.35	0.41
1:A:1153:PHE:HA	1:A:1157:LEU:HD23	2.02	0.41
1:B:276:ASN:HD22	1:B:276:ASN:HA	1.70	0.41
1:B:268:LYS:NZ	1:B:272:ARG:HD3	2.36	0.41
1:A:614:GLU:O	1:A:615:LYS:C	2.58	0.41
1:A:886:LEU:C	1:A:886:LEU:HD12	2.41	0.41
1:A:415:SER:HA	1:A:577:THR:HB	2.03	0.41
1:A:311:TRP:CA	1:A:311:TRP:CE3	3.04	0.41
1:B:1108:GLN:H	1:B:1108:GLN:HE21	1.68	0.41
1:B:1233:ILE:HG13	1:B:1233:ILE:O	2.21	0.41
1:B:722:PRO:HA	1:B:979:PHE:CE1	2.55	0.41
1:B:821:VAL:C	1:B:823:GLY:N	2.71	0.41
1:A:318:ILE:HD12	1:A:322:TYR:O	2.21	0.41
1:B:167:LEU:O	1:B:170:ARG:HG2	2.20	0.41
1:A:349:GLU:O	1:A:352:ALA:HB3	2.21	0.41
1:A:541:LEU:HD13	1:A:541:LEU:C	2.41	0.41
1:A:573:ARG:C	1:A:575:GLY:H	2.22	0.41
1:B:430:SER:O	1:B:433:VAL:HB	2.21	0.41
1:B:433:VAL:O	1:B:436:MET:HB2	2.21	0.41
1:B:466:ILE:HG22	1:B:468:VAL:HG23	2.03	0.41
1:A:1126:ASN:O	1:A:1129:TYR:CG	2.74	0.41
1:B:1027:LEU:HD23	1:B:1028:GLU:N	2.34	0.41
1:A:401:LYS:O	1:A:402:GLU:C	2.59	0.41
1:A:103:LEU:HD13	1:A:960:VAL:HG22	2.02	0.41
1:A:611:LEU:HA	1:A:614:GLU:HB3	2.03	0.41
1:A:509:ILE:HD12	1:A:509:ILE:C	2.40	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:566:GLN:CD	1:B:569:LEU:HD12	2.40	0.41
1:A:1233:ILE:HG13	1:A:1233:ILE:O	2.20	0.41
1:A:364:ILE:HG22	1:A:364:ILE:O	2.20	0.41
1:B:804:LYS:N	1:B:804:LYS:HE3	2.35	0.41
1:A:1108:GLN:H	1:A:1108:GLN:HE21	1.68	0.41
1:B:298:ALA:O	1:B:302:ILE:CG1	2.68	0.40
1:B:310:PHE:HB3	1:B:311:TRP:H	1.61	0.40
1:A:214:ILE:HG12	1:A:331:PHE:CD2	2.56	0.40
1:A:729:SER:HA	1:A:971:LEU:CB	2.50	0.40
1:A:167:LEU:O	1:A:170:ARG:HG2	2.21	0.40
1:A:484:ILE:O	1:A:487:GLY:N	2.55	0.40
1:A:54:THR:O	1:A:57:ALA:HB3	2.22	0.40
1:A:52:VAL:O	1:A:55:LEU:HB3	2.22	0.40
1:B:484:ILE:O	1:B:485:ARG:C	2.60	0.40
1:B:433:VAL:CG1	1:B:549:LEU:HD23	2.48	0.40
1:A:1138:TYR:O	1:A:1141:ILE:HG12	2.21	0.40
1:A:279:GLU:CG	1:A:782:LYS:CD	2.99	0.40
1:A:706:TYR:O	1:A:707:PHE:CD2	2.74	0.40
1:A:1234:GLN:O	1:A:1236:ALA:N	2.51	0.40
1:B:1033:PHE:O	1:B:1053:SER:HA	2.21	0.40
1:B:1065:VAL:HG13	1:B:1241:VAL:HG22	2.03	0.40
1:A:1267:VAL:O	1:A:1270:GLN:HB3	2.21	0.40
1:B:324:ILE:C	1:B:326:GLN:H	2.23	0.40
1:B:967:PHE:CD1	1:B:968:GLU:N	2.87	0.40
1:A:212:LEU:O	1:A:214:ILE:N	2.55	0.40
1:A:318:ILE:HD11	1:A:324:ILE:HG12	2.02	0.40
1:A:861:VAL:CB	1:A:862:PRO:CD	2.99	0.40
1:B:128:GLN:CG	1:B:129:VAL:N	2.83	0.40
1:A:132:TRP:CD2	1:A:183:GLY:CA	3.04	0.40
1:A:491:VAL:HG23	1:A:495:GLU:OE1	2.21	0.40
1:B:473:PRO:O	1:B:532:LYS:HE2	2.22	0.40
1:A:1109:LEU:HD21	1:A:1188:ARG:NH1	2.33	0.40
1:A:1218:ARG:O	1:A:1219:GLU:HB3	2.21	0.40
1:A:765:THR:CG2	1:A:766:PHE:N	2.83	0.40
1:A:990:PHE:HB3	1:A:991:ALA:H	1.72	0.40
1:B:1173:SER:HB3	1:B:1176:GLN:HE22	1.85	0.40
1:B:258:ARG:O	1:B:261:ILE:N	2.54	0.40
1:B:993:ASP:N	1:B:996:LYS:HZ1	2.18	0.40
1:A:611:LEU:HB2	1:A:618:TYR:HD2	1.86	0.40
1:B:1071:GLY:O	1:B:1075:VAL:HG23	2.21	0.40
1:B:404:GLN:HE21	1:B:404:GLN:HB3	1.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1263:TYR:O	1:B:1266:MET:HB2	2.20	0.40
1:B:954:ARG:C	1:B:954:ARG:CD	2.90	0.40
1:B:601:VAL:O	1:B:601:VAL:HG13	2.20	0.40
1:B:202:ILE:C	1:B:204:PHE:H	2.24	0.40
1:B:712:PHE:O	1:B:713:CYS:C	2.59	0.40
1:B:765:THR:HG23	1:B:766:PHE:H	1.84	0.40
1:B:732:VAL:CG2	1:B:971:LEU:HG	2.51	0.40
1:A:977:ILE:O	1:A:980:GLY:N	2.53	0.40
1:B:188:MET:O	1:B:189:PHE:C	2.58	0.40
1:B:39:PHE:CE2	1:B:358:ALA:HB3	2.52	0.40
1:A:158:TRP:O	1:A:158:TRP:HD1	2.03	0.40
1:A:930:LYS:O	1:A:931:ALA:C	2.58	0.40
1:B:437:GLN:HE21	1:B:468:VAL:HG21	1.86	0.40
1:B:548:LEU:HD23	1:B:549:LEU:H	1.86	0.40
1:B:913:GLU:CA	1:B:916:TYR:HD2	2.31	0.40
1:B:689:PRO:HG2	1:B:690:PRO:HD3	2.02	0.40
1:A:1026:MET:CE	1:A:1095:LYS:HD3	2.52	0.40
1:A:827:SER:C	1:A:829:LEU:N	2.72	0.40
1:A:1261:GLY:N	1:A:1264:PHE:HB3	2.20	0.40
1:B:1165:VAL:O	1:B:1171:GLN:HG2	2.21	0.40
1:A:1057:LYS:CD	1:A:1057:LYS:H	2.34	0.40
1:B:1062:LEU:HD13	1:B:1062:LEU:C	2.41	0.40
1:B:191:GLN:O	1:B:194:ALA:N	2.54	0.40
1:B:282:ARG:HD3	1:B:286:LYS:NZ	2.37	0.40
1:B:778:GLU:HB3	1:B:782:LYS:HE2	2.03	0.40
1:A:721:GLN:HB3	1:A:722:PRO:HD3	2.04	0.40
1:A:947:PHE:HA	1:A:947:PHE:HD2	1.77	0.40
1:A:969:ASN:CA	1:A:972:LEU:HD13	2.43	0.40
1:A:195:THR:HB	1:A:337:GLY:O	2.22	0.40
1:B:146:LYS:O	1:B:150:ALA:HB2	2.21	0.40
1:A:47:ARG:O	1:A:48:LEU:C	2.58	0.40
1:B:534:ARG:HH21	1:B:564:VAL:CG1	2.29	0.40
1:A:791:SER:CB	1:A:1010:LYS:HE2	2.52	0.40
1:A:1083:TYR:N	1:A:1083:TYR:CD1	2.89	0.40
1:A:799:TRP:O	1:A:803:PRO:CA	2.70	0.40
1:B:990:PHE:HB3	1:B:991:ALA:H	1.72	0.40
1:A:1157:LEU:O	1:A:1158:PRO:C	2.60	0.40
1:B:268:LYS:C	1:B:268:LYS:HD3	2.41	0.40
1:A:268:LYS:NZ	1:A:272:ARG:HD3	2.36	0.40
1:B:311:TRP:CA	1:B:311:TRP:CE3	3.04	0.40
1:B:708:VAL:CG1	1:B:709:VAL:N	2.83	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:795:GLN:CD	1:B:1012:PRO:HD3	2.42	0.40
1:B:814:LEU:H	1:B:814:LEU:CD2	2.35	0.40
1:B:852:GLN:OE1	1:B:955:PHE:O	2.39	0.40
1:B:721:GLN:HG2	1:B:982:MET:SD	2.62	0.40
1:A:727:ILE:HD12	1:A:754:LEU:CB	2.52	0.40
1:A:834:GLN:O	1:A:835:ASN:O	2.39	0.40
1:A:860:ILE:HG21	1:A:948:SER:HB3	2.02	0.40
1:A:946:TYR:CG	1:A:947:PHE:N	2.90	0.40
1:A:395:PHE:HA	1:A:443:LEU:CB	2.52	0.40
1:A:472:GLU:OE1	1:A:473:PRO:HD2	2.22	0.40
1:A:476:PHE:CD2	1:A:486:TYR:HE1	2.39	0.40
1:B:429:LYS:NZ	1:B:581:ILE:HD11	2.37	0.40
1:B:480:ILE:O	1:B:482:GLU:N	2.54	0.40
1:A:784:LEU:O	1:A:788:VAL:HG23	2.21	0.40
1:B:1234:GLN:O	1:B:1236:ALA:N	2.52	0.40
1:B:1075:VAL:O	1:B:1076:VAL:C	2.58	0.40
1:B:1083:TYR:N	1:B:1083:TYR:CD1	2.89	0.40
1:B:607:ASN:O	1:B:608:HIS:C	2.59	0.40
1:A:1056:VAL:HG23	1:A:1062:LEU:HB2	2.04	0.40
1:A:404:GLN:HB3	1:A:404:GLN:HE21	1.63	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	1178/1284 (92%)	685 (58%)	305 (26%)	188 (16%)	0 5
1	B	1178/1284 (92%)	678 (58%)	318 (27%)	182 (15%)	0 5
All	All	2356/2568 (92%)	1363 (58%)	623 (26%)	370 (16%)	0 5

All (370) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	35	VAL
1	A	52	VAL
1	A	88	SER
1	A	131	PHE
1	A	133	CYS
1	A	134	LEU
1	A	135	ALA
1	A	155	GLU
1	A	156	ILE
1	A	164	VAL
1	A	201	ILE
1	A	208	TRP
1	A	209	LYS
1	A	267	LYS
1	A	276	ASN
1	A	310	PHE
1	A	371	ILE
1	A	374	PHE
1	A	384	ILE
1	A	385	GLN
1	A	400	ARG
1	A	439	LEU
1	A	489	GLU
1	A	491	VAL
1	A	537	ILE
1	A	553	ALA
1	A	574	GLU
1	A	590	ASN
1	A	593	VAL
1	A	731	VAL
1	A	755	PHE
1	A	757	ILE
1	A	788	VAL
1	A	797	VAL
1	A	799	TRP
1	A	835	ASN
1	A	849	TYR
1	A	901	ARG
1	A	906	LEU
1	A	909	GLU
1	A	933	VAL
1	A	963	GLN
1	A	990	PHE

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Mol	Chain	Res	Type
1	A	993	ASP
1	A	1012	PRO
1	A	1014	ILE
1	A	1020	GLN
1	A	1042	THR
1	A	1057	LYS
1	A	1093	ASP
1	A	1098	LYS
1	A	1134	ARG
1	A	1158	PRO
1	A	1244	ASN
1	B	35	VAL
1	B	52	VAL
1	B	88	SER
1	B	131	PHE
1	B	133	CYS
1	B	134	LEU
1	B	135	ALA
1	B	155	GLU
1	B	156	ILE
1	B	164	VAL
1	B	201	ILE
1	B	274	ASN
1	B	276	ASN
1	B	310	PHE
1	B	321	GLU
1	B	322	TYR
1	B	370	SER
1	B	372	ASP
1	B	400	ARG
1	B	439	LEU
1	B	489	GLU
1	B	491	VAL
1	B	537	ILE
1	B	553	ALA
1	B	574	GLU
1	B	590	ASN
1	B	593	VAL
1	B	731	VAL
1	B	755	PHE
1	B	757	ILE
1	B	797	VAL

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Mol	Chain	Res	Type
1	B	798	SER
1	B	835	ASN
1	B	849	TYR
1	B	901	ARG
1	B	906	LEU
1	B	909	GLU
1	B	933	VAL
1	B	963	GLN
1	B	990	PHE
1	B	993	ASP
1	B	1011	THR
1	B	1012	PRO
1	B	1014	ILE
1	B	1023	LYS
1	B	1042	THR
1	B	1057	LYS
1	B	1093	ASP
1	B	1134	ARG
1	B	1158	PRO
1	B	1244	ASN
1	A	34	SER
1	A	44	TRP
1	A	72	GLY
1	A	90	ASN
1	A	132	TRP
1	A	137	GLY
1	A	140	ILE
1	A	144	ARG
1	A	160	ASP
1	A	203	GLY
1	A	216	ALA
1	A	274	ASN
1	A	308	LEU
1	A	356	GLY
1	A	373	SER
1	A	404	GLN
1	A	407	LYS
1	A	408	GLY
1	A	424	ASN
1	A	521	GLY
1	A	539	ARG
1	A	620	LYS

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Mol	Chain	Res	Type
1	A	687	ASP
1	A	712	PHE
1	A	796	ASP
1	A	815	ALA
1	A	837	ALA
1	A	947	PHE
1	A	959	LEU
1	A	991	ALA
1	A	1028	GLU
1	A	1030	ASN
1	A	1095	LYS
1	A	1114	GLN
1	A	1128	ALA
1	A	1129	TYR
1	A	1130	GLY
1	A	1155	ASP
1	A	1157	LEU
1	A	1160	LYS
1	A	1198	ALA
1	A	1262	ILE
1	B	34	SER
1	B	44	TRP
1	B	72	GLY
1	B	132	TRP
1	B	140	ILE
1	B	160	ASP
1	B	190	PHE
1	B	203	GLY
1	B	216	ALA
1	B	267	LYS
1	B	308	LEU
1	B	320	LYS
1	B	356	GLY
1	B	404	GLN
1	B	408	GLY
1	B	424	ASN
1	B	521	GLY
1	B	522	GLU
1	B	539	ARG
1	B	620	LYS
1	B	712	PHE
1	B	788	VAL

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Mol	Chain	Res	Type
1	B	796	ASP
1	B	799	TRP
1	B	814	LEU
1	B	815	ALA
1	B	837	ALA
1	B	851	TRP
1	B	947	PHE
1	B	959	LEU
1	B	991	ALA
1	B	1016	SER
1	B	1024	PRO
1	B	1095	LYS
1	B	1098	LYS
1	B	1114	GLN
1	B	1128	ALA
1	B	1129	TYR
1	B	1130	GLY
1	B	1155	ASP
1	B	1198	ALA
1	B	1262	ILE
1	A	73	ASP
1	A	118	GLY
1	A	190	PHE
1	A	317	VAL
1	A	320	LYS
1	A	355	ARG
1	A	369	PRO
1	A	370	SER
1	A	434	GLN
1	A	435	LEU
1	A	522	GLU
1	A	552	GLU
1	A	703	GLU
1	A	707	PHE
1	A	758	LEU
1	A	778	GLU
1	A	794	ARG
1	A	814	LEU
1	A	833	PHE
1	A	839	LEU
1	A	908	ARG
1	A	935	GLY

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Mol	Chain	Res	Type
1	A	945	MET
1	A	965	MET
1	A	969	ASN
1	A	975	SER
1	A	995	ALA
1	A	1013	GLU
1	A	1017	TYR
1	A	1018	SER
1	A	1027	LEU
1	A	1041	PRO
1	A	1230	LEU
1	A	1235	ASN
1	B	73	ASP
1	B	90	ASN
1	B	118	GLY
1	B	137	GLY
1	B	144	ARG
1	B	208	TRP
1	B	355	ARG
1	B	373	SER
1	B	385	GLN
1	B	407	LYS
1	B	703	GLU
1	B	707	PHE
1	B	758	LEU
1	B	772	THR
1	B	778	GLU
1	B	833	PHE
1	B	839	LEU
1	B	854	THR
1	B	908	ARG
1	B	935	GLY
1	B	945	MET
1	B	965	MET
1	B	969	ASN
1	B	975	SER
1	B	1010	LYS
1	B	1015	ASP
1	B	1041	PRO
1	B	1157	LEU
1	B	1159	ASP
1	B	1160	LYS

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Mol	Chain	Res	Type
1	B	1230	LEU
1	A	152	MET
1	A	402	GLU
1	A	523	ARG
1	A	538	ALA
1	A	558	ASP
1	A	608	HIS
1	A	766	PHE
1	A	772	THR
1	A	786	TYR
1	A	806	THR
1	A	854	THR
1	A	894	THR
1	A	895	GLU
1	A	912	PHE
1	A	958	TYR
1	A	1046	ILE
1	A	1102	VAL
1	A	1156	SER
1	A	1159	ASP
1	A	1204	THR
1	B	317	VAL
1	B	369	PRO
1	B	377	SER
1	B	384	ILE
1	B	433	VAL
1	B	538	ALA
1	B	608	HIS
1	B	691	ALA
1	B	766	PHE
1	B	786	TYR
1	B	794	ARG
1	B	912	PHE
1	B	958	TYR
1	B	1013	GLU
1	B	1020	GLN
1	B	1046	ILE
1	B	1102	VAL
1	B	1156	SER
1	B	1235	ASN
1	A	218	SER
1	A	258	ARG

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Mol	Chain	Res	Type
1	A	269	GLU
1	A	352	ALA
1	A	429	LYS
1	A	559	THR
1	A	690	PRO
1	A	705	PRO
1	A	748	SER
1	A	753	LEU
1	A	793	LEU
1	A	1024	PRO
1	A	1036	VAL
1	A	1101	ASN
1	B	209	LYS
1	B	218	SER
1	B	258	ARG
1	B	352	ALA
1	B	381	PRO
1	B	402	GLU
1	B	507	ASP
1	B	558	ASP
1	B	559	THR
1	B	692	SER
1	B	705	PRO
1	B	753	LEU
1	B	894	THR
1	B	1036	VAL
1	B	1206	SER
1	A	161	VAL
1	A	280	ALA
1	A	322	TYR
1	A	507	ASP
1	A	759	GLY
1	A	897	ILE
1	A	1085	PRO
1	B	161	VAL
1	B	315	SER
1	B	523	ARG
1	B	598	ASP
1	B	759	GLY
1	B	806	THR
1	B	1019	THR
1	B	1136	VAL

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Mol	Chain	Res	Type
1	B	1168	LYS
1	A	214	ILE
1	A	545	PRO
1	A	603	VAL
1	A	689	PRO
1	A	1069	GLY
1	A	1136	VAL
1	A	1166	GLY
1	B	603	VAL
1	B	1085	PRO
1	A	381	PRO
1	B	214	ILE
1	B	897	ILE
1	B	1166	GLY
1	A	227	ILE
1	A	1047	PRO
1	A	1094	GLY
1	B	545	PRO
1	B	999	VAL
1	B	1069	GLY
1	B	1094	GLY
1	A	121	VAL
1	A	601	VAL
1	A	999	VAL
1	A	1127	ILE
1	B	116	GLY
1	B	121	VAL
1	B	227	ILE
1	B	601	VAL
1	B	1047	PRO
1	B	1127	ILE
1	A	116	GLY
1	A	831	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	976/1065 (92%)	823 (84%)	153 (16%)	3 23
1	B	976/1065 (92%)	829 (85%)	147 (15%)	3 25
All	All	1952/2130 (92%)	1652 (85%)	300 (15%)	3 24

All (300) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	41	TYR
1	A	59	ILE
1	A	70	ILE
1	A	71	PHE
1	A	76	ASP
1	A	83	ASN
1	A	87	ASN
1	A	91	MET
1	A	93	GLU
1	A	99	MET
1	A	102	LYS
1	A	113	TYR
1	A	131	PHE
1	A	132	TRP
1	A	156	ILE
1	A	158	TRP
1	A	163	ASP
1	A	189	PHE
1	A	206	ARG
1	A	209	LYS
1	A	210	LEU
1	A	219	PRO
1	A	227	ILE
1	A	228	TRP
1	A	231	ILE
1	A	238	LYS
1	A	243	TYR
1	A	245	LYS
1	A	252	GLU
1	A	254	LEU
1	A	257	ILE
1	A	267	LYS
1	A	270	LEU
1	A	276	ASN
1	A	281	LYS

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Mol	Chain	Res	Type
1	A	282	ARG
1	A	285	ILE
1	A	295	MET
1	A	302	ILE
1	A	306	TYR
1	A	308	LEU
1	A	310	PHE
1	A	324	ILE
1	A	328	LEU
1	A	330	VAL
1	A	336	ILE
1	A	366	ASP
1	A	376	LYS
1	A	382	ASP
1	A	397	TYR
1	A	401	LYS
1	A	402	GLU
1	A	404	GLN
1	A	405	ILE
1	A	429	LYS
1	A	438	ARG
1	A	439	LEU
1	A	447	VAL
1	A	449	ILE
1	A	461	TYR
1	A	470	SER
1	A	471	GLN
1	A	493	MET
1	A	495	GLU
1	A	519	LEU
1	A	527	LEU
1	A	535	ILE
1	A	549	LEU
1	A	577	THR
1	A	578	THR
1	A	592	ASP
1	A	602	ILE
1	A	604	GLU
1	A	613	ARG
1	A	686	GLU
1	A	687	ASP
1	A	694	TRP

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Mol	Chain	Res	Type
1	A	695	ARG
1	A	697	LEU
1	A	703	GLU
1	A	711	ILE
1	A	721	GLN
1	A	722	PRO
1	A	727	ILE
1	A	734	VAL
1	A	743	THR
1	A	749	ASN
1	A	751	PHE
1	A	786	TYR
1	A	789	PHE
1	A	795	GLN
1	A	799	TRP
1	A	804	LYS
1	A	816	ASN
1	A	834	GLN
1	A	841	THR
1	A	849	TYR
1	A	853	LEU
1	A	862	PRO
1	A	863	ILE
1	A	872	MET
1	A	881	LYS
1	A	892	ILE
1	A	900	PHE
1	A	902	THR
1	A	905	SER
1	A	908	ARG
1	A	909	GLU
1	A	911	LYS
1	A	912	PHE
1	A	922	ILE
1	A	936	ILE
1	A	945	MET
1	A	947	PHE
1	A	953	PHE
1	A	954	ARG
1	A	968	GLU
1	A	969	ASN
1	A	974	PHE

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Mol	Chain	Res	Type
1	A	993	ASP
1	A	996	LYS
1	A	1005	ILE
1	A	1008	ILE
1	A	1010	LYS
1	A	1011	THR
1	A	1012	PRO
1	A	1013	GLU
1	A	1020	GLN
1	A	1023	LYS
1	A	1025	ASN
1	A	1039	ASN
1	A	1041	PRO
1	A	1060	GLN
1	A	1083	TYR
1	A	1108	GLN
1	A	1109	LEU
1	A	1118	LEU
1	A	1123	ILE
1	A	1131	ASP
1	A	1138	TYR
1	A	1140	GLU
1	A	1158	PRO
1	A	1161	TYR
1	A	1182	ILE
1	A	1187	VAL
1	A	1192	ILE
1	A	1221	ARG
1	A	1229	ARG
1	A	1233	ILE
1	A	1242	ILE
1	A	1246	LYS
1	A	1254	GLN
1	A	1262	ILE
1	B	41	TYR
1	B	59	ILE
1	B	70	ILE
1	B	71	PHE
1	B	76	ASP
1	B	83	ASN
1	B	87	ASN
1	B	91	MET

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Mol	Chain	Res	Type
1	B	93	GLU
1	B	99	MET
1	B	102	LYS
1	B	113	TYR
1	B	123	ILE
1	B	131	PHE
1	B	132	TRP
1	B	147	PHE
1	B	156	ILE
1	B	158	TRP
1	B	163	ASP
1	B	189	PHE
1	B	206	ARG
1	B	210	LEU
1	B	219	PRO
1	B	227	ILE
1	B	228	TRP
1	B	231	ILE
1	B	238	LYS
1	B	243	TYR
1	B	245	LYS
1	B	252	GLU
1	B	254	LEU
1	B	257	ILE
1	B	267	LYS
1	B	270	LEU
1	B	276	ASN
1	B	281	LYS
1	B	282	ARG
1	B	285	ILE
1	B	295	MET
1	B	302	ILE
1	B	306	TYR
1	B	308	LEU
1	B	310	PHE
1	B	324	ILE
1	B	328	LEU
1	B	330	VAL
1	B	336	ILE
1	B	366	ASP
1	B	397	TYR
1	B	401	LYS

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Mol	Chain	Res	Type
1	B	402	GLU
1	B	404	GLN
1	B	405	ILE
1	B	429	LYS
1	B	436	MET
1	B	438	ARG
1	B	439	LEU
1	B	449	ILE
1	B	461	TYR
1	B	471	GLN
1	B	493	MET
1	B	495	GLU
1	B	519	LEU
1	B	527	LEU
1	B	535	ILE
1	B	549	LEU
1	B	577	THR
1	B	578	THR
1	B	592	ASP
1	B	602	ILE
1	B	604	GLU
1	B	613	ARG
1	B	684	LEU
1	B	693	PHE
1	B	694	TRP
1	B	695	ARG
1	B	697	LEU
1	B	703	GLU
1	B	711	ILE
1	B	721	GLN
1	B	722	PRO
1	B	727	ILE
1	B	734	VAL
1	B	743	THR
1	B	749	ASN
1	B	751	PHE
1	B	786	TYR
1	B	789	PHE
1	B	795	GLN
1	B	799	TRP
1	B	804	LYS
1	B	816	ASN

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Mol	Chain	Res	Type
1	B	834	GLN
1	B	841	THR
1	B	849	TYR
1	B	853	LEU
1	B	862	PRO
1	B	863	ILE
1	B	872	MET
1	B	881	LYS
1	B	892	ILE
1	B	900	PHE
1	B	902	THR
1	B	905	SER
1	B	908	ARG
1	B	909	GLU
1	B	911	LYS
1	B	912	PHE
1	B	936	ILE
1	B	945	MET
1	B	947	PHE
1	B	953	PHE
1	B	968	GLU
1	B	969	ASN
1	B	974	PHE
1	B	993	ASP
1	B	996	LYS
1	B	1005	ILE
1	B	1007	ILE
1	B	1008	ILE
1	B	1011	THR
1	B	1013	GLU
1	B	1022	LEU
1	B	1039	ASN
1	B	1041	PRO
1	B	1060	GLN
1	B	1083	TYR
1	B	1108	GLN
1	B	1109	LEU
1	B	1118	LEU
1	B	1123	ILE
1	B	1131	ASP
1	B	1138	TYR
1	B	1140	GLU

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Mol	Chain	Res	Type
1	B	1154	ILE
1	B	1158	PRO
1	B	1161	TYR
1	B	1182	ILE
1	B	1187	VAL
1	B	1192	ILE
1	B	1221	ARG
1	B	1229	ARG
1	B	1233	ILE
1	B	1242	ILE
1	B	1246	LYS
1	B	1254	GLN
1	B	1262	ILE

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (78) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	60	HIS
1	A	83	ASN
1	A	87	ASN
1	A	153	ASN
1	A	154	GLN
1	A	179	ASN
1	A	274	ASN
1	A	275	ASN
1	A	276	ASN
1	A	385	GLN
1	A	387	ASN
1	A	394	HIS
1	A	404	GLN
1	A	434	GLN
1	A	437	GLN
1	A	458	ASN
1	A	515	GLN
1	A	625	GLN
1	A	717	ASN
1	A	721	GLN
1	A	749	ASN
1	A	769	GLN
1	A	795	GLN
1	A	816	ASN
1	A	834	GLN

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Mol	Chain	Res	Type
1	A	878	GLN
1	A	962	GLN
1	A	969	ASN
1	A	1003	HIS
1	A	1032	GLN
1	A	1039	ASN
1	A	1099	GLN
1	A	1108	GLN
1	A	1114	GLN
1	A	1149	ASN
1	A	1235	ASN
1	A	1244	ASN
1	A	1253	HIS
1	B	60	HIS
1	B	83	ASN
1	B	87	ASN
1	B	153	ASN
1	B	154	GLN
1	B	179	ASN
1	B	274	ASN
1	B	276	ASN
1	B	379	HIS
1	B	385	GLN
1	B	387	ASN
1	B	394	HIS
1	B	404	GLN
1	B	434	GLN
1	B	437	GLN
1	B	458	ASN
1	B	515	GLN
1	B	625	GLN
1	B	717	ASN
1	B	721	GLN
1	B	747	ASN
1	B	749	ASN
1	B	769	GLN
1	B	795	GLN
1	B	816	ASN
1	B	834	GLN
1	B	852	GLN
1	B	878	GLN
1	B	963	GLN

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Mol	Chain	Res	Type
1	B	969	ASN
1	B	1003	HIS
1	B	1032	GLN
1	B	1039	ASN
1	B	1099	GLN
1	B	1108	GLN
1	B	1114	GLN
1	B	1149	ASN
1	B	1235	ASN
1	B	1244	ASN
1	B	1253	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no carbohydrates in this entry.

5.6 Ligand geometry

4 ligands are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
2	2J8	A	6001	-	27,39,39	1.40	3 (11%)	24,57,57	1.60	6 (25%)
2	2J8	A	6002	-	10,18,39	1.48	1 (10%)	9,24,57	1.61	2 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
2	2J8	B	6003	-	27,39,39	1.45	3 (11%)	24,57,57	1.47	6 (25%)
2	2J8	B	6004	-	10,18,39	1.64	1 (10%)	9,24,57	1.81	3 (33%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
2	2J8	A	6001	-	-	0/24/48/48	0/0/4/4
2	2J8	A	6002	-	-	0/8/16/48	0/0/2/4
2	2J8	B	6003	-	-	0/24/48/48	0/0/4/4
2	2J8	B	6004	-	-	0/8/16/48	0/0/2/4

All (8) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	6003	2J8	C02-N03	3.03	1.41	1.34
2	B	6003	2J8	C09-N10	3.49	1.42	1.34
2	A	6001	2J8	C09-N10	3.65	1.42	1.34
2	A	6001	2J8	C02-N03	3.67	1.42	1.34
2	A	6001	2J8	C16-N17	3.76	1.42	1.34
2	B	6003	2J8	C16-N17	4.21	1.43	1.34
2	A	6002	2J8	C16-N17	4.28	1.43	1.34
2	B	6004	2J8	C16-N17	4.56	1.44	1.34

All (17) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	6003	2J8	C04-N03-C02	2.05	125.46	122.02
2	B	6003	2J8	C29-C28-C04	2.12	113.23	111.30
2	B	6004	2J8	C21-C01-N22	2.24	115.14	109.36
2	A	6001	2J8	C29-C28-C04	2.45	113.54	111.30
2	A	6002	2J8	C18-N17-C16	2.59	126.37	122.02
2	B	6003	2J8	C32-C31-C11	2.67	113.74	111.30
2	A	6001	2J8	C18-N17-C16	2.76	126.66	122.02
2	B	6003	2J8	C18-N17-C16	2.80	126.72	122.02
2	B	6003	2J8	C11-N10-C09	2.85	126.82	122.02
2	A	6001	2J8	C04-N03-C02	2.87	126.84	122.02
2	A	6001	2J8	C11-N10-C09	3.12	127.26	122.02
2	B	6004	2J8	C18-N17-C16	3.13	127.28	122.02
2	A	6001	2J8	C32-C31-C11	3.20	114.22	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	6003	2J8	C36-C34-C18	3.21	114.23	111.30
2	A	6002	2J8	C36-C34-C18	3.37	114.38	111.30
2	B	6004	2J8	C36-C34-C18	3.50	114.50	111.30
2	A	6001	2J8	C36-C34-C18	3.65	114.63	111.30

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

4 monomers are involved in 25 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
2	A	6001	2J8	4	0
2	A	6002	2J8	1	0
2	B	6003	2J8	16	0
2	B	6004	2J8	4	0

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	1182/1284 (92%)	-0.55	5 (0%)	93	90	115, 180, 210, 247	0
1	B	1182/1284 (92%)	-0.53	4 (0%)	94	92	97, 183, 214, 303	0
All	All	2364/2568 (92%)	-0.54	9 (0%)	93	90	97, 182, 212, 303	0

All (9) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	B	1024	PRO	4.0
1	A	962	GLN	3.9
1	B	1244	ASN	2.8
1	A	1228	HIS	2.6
1	B	524	GLY	2.5
1	A	624	THR	2.4
1	A	961	THR	2.3
1	B	962	GLN	2.1
1	A	625	GLN	2.0

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

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

6.3 Carbohydrates

There are no carbohydrates in this entry.

6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron

density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	LLDF	B-factors(Å^2)	Q<0.9
2	2J8	B	6004	17/36	0.52	0.47	3.60	185,185,185,185	0
2	2J8	A	6002	17/36	0.67	0.54	2.85	185,185,185,185	0
2	2J8	B	6003	36/36	0.69	0.44	2.80	185,185,185,185	0
2	2J8	A	6001	36/36	0.79	0.36	1.49	185,185,185,185	0

6.5 Other polymers (i)

There are no such residues in this entry.