Full wwPDB EM Validation Report

Mar 28, 2026 – 11:46 PM UTC

PDB ID	:	2VDC / pdb_00002vdc
EMDB ID	:	EMD-1440
Title	:	THE 9.5 A RESOLUTION STRUCTURE OF GLUTAMATE SYNTHASE FROM CRYO-ELECTRON MICROSCOPY AND ITS OLIGOMERIZATION BEHAVIOR IN SOLUTION: FUNCTIONAL IMPLICATIONS.
Authors	:	Cottevieille, M.; Larquet, E.; Jonic, S.; Petoukhov, M.V.; Caprini, G.; Paravisi, S.; Svergun, D.I.; Vanoni, M.A.; Boisset, N.
Deposited on	:	2007-10-04
Resolution	:	9.50 Å(reported)
Based on initial model	:	2VDC

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

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

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

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

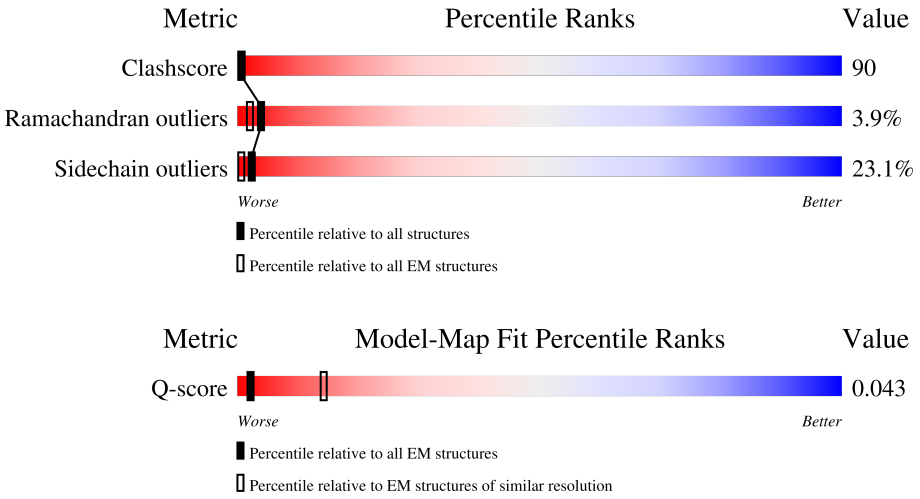
EMDB validation analysis	:	0.0.1.dev132
Mogul	:	2022.3.0, CSD as543be (2022)
MolProbity	:	4-5-2 with Phenix2.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)

1 Overall quality at a glance

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

The reported resolution of this entry is 9.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
Q-score	-	25397	234 (9.00 - 10.00)

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

Mol	Chain	Length	Quality of chain
1	A	1472	29% 20% 48% 26% 6%
1	B	1472	29% 23% 47% 24% 6%
1	C	1472	31% 20% 49% 25% 6%

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Mol	Chain	Length	Quality of chain
1	D	1472	30% 22% 47% 24% 6%
1	E	1472	30% 20% 49% 25% 6%
1	F	1472	31% 23% 47% 24% 6%
2	G	456	21% 15% 43% 28% 14%
2	H	456	22% 15% 43% 28% 14%
2	I	456	24% 15% 43% 28% 14%
2	J	456	21% 15% 43% 28% 14%
2	K	456	24% 15% 43% 28% 14%
2	L	456	22% 15% 43% 28% 14%

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
3	OMT	A	2473	-	X	-	-
3	OMT	B	2473	-	X	-	-
3	OMT	C	2473	-	X	-	-
3	OMT	D	2473	-	X	-	-
3	OMT	E	2473	-	X	-	-
3	OMT	F	2473	-	X	-	-
6	F3S	A	2476	-	-	X	-
6	F3S	B	2476	-	-	X	-
6	F3S	C	2476	-	-	X	-
6	F3S	D	2476	-	-	X	-
6	F3S	E	2476	-	-	X	-
6	F3S	F	2476	-	-	X	-
7	SF4	G	483	-	-	X	-
7	SF4	H	483	-	-	X	-
7	SF4	I	483	-	-	X	-
7	SF4	J	483	-	-	X	-
7	SF4	K	483	-	-	X	-
7	SF4	L	483	-	-	X	-

2 Entry composition (i)

There are 8 unique types of molecules in this entry. The entry contains 89598 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

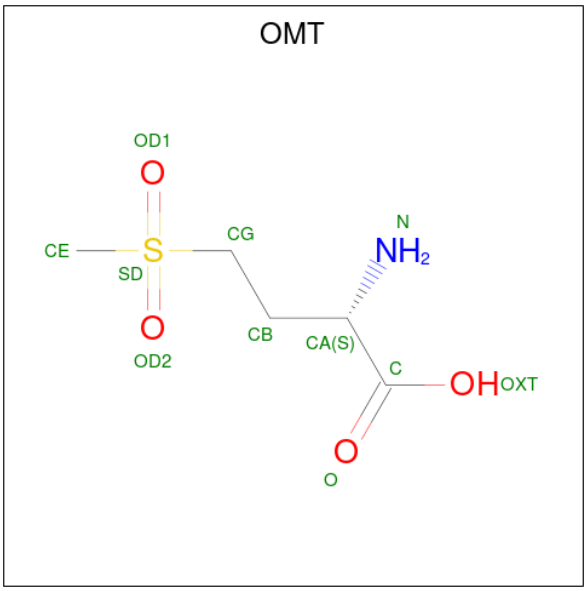
- Molecule 1 is a protein called GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	B	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	C	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	D	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	E	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		
1	F	1472	Total	C	N	O	S	0	0
			11337	7109	2036	2132	60		

- Molecule 2 is a protein called GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN.

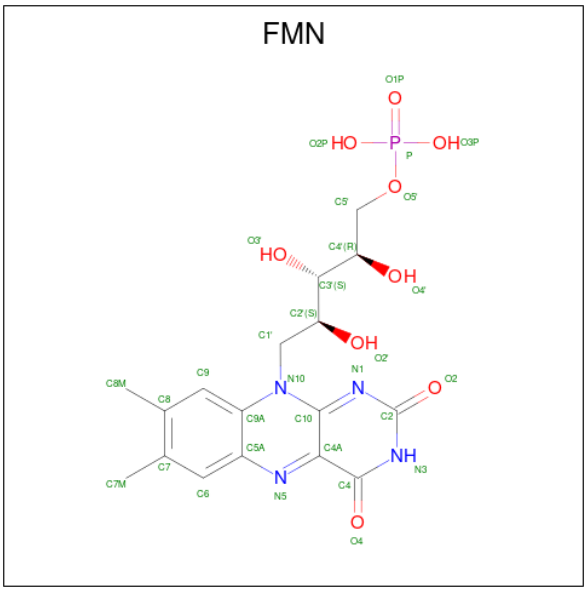
Mol	Chain	Residues	Atoms					AltConf	Trace
2	G	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	H	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	I	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	J	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	K	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		
2	L	456	Total	C	N	O	S	0	0
			3468	2163	624	666	15		

- Molecule 3 is S-DIOXYMETHIONINE (CCD ID: OMT) (formula: $C_5H_{11}NO_4S$).



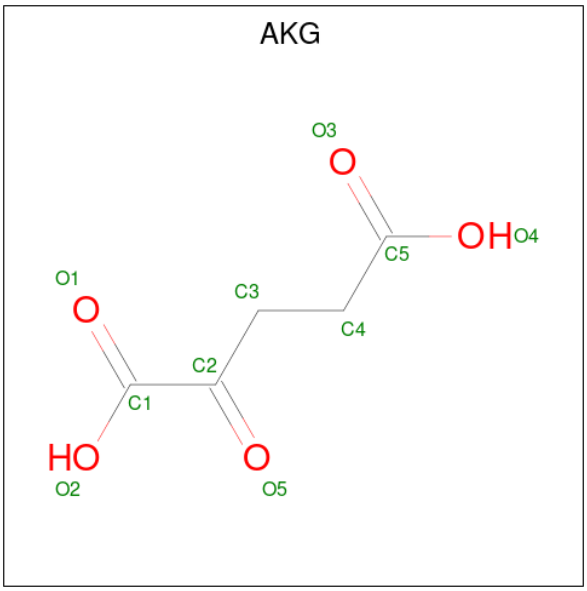
Mol	Chain	Residues	Atoms					AltConf
3	A	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	B	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	C	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	D	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	E	1	Total	C	N	O	S	0
			11	5	1	4	1	
3	F	1	Total	C	N	O	S	0
			11	5	1	4	1	

- Molecule 4 is FLAVIN MONONUCLEOTIDE (CCD ID: FMN) (formula: $C_{17}H_{21}N_4O_9P$).



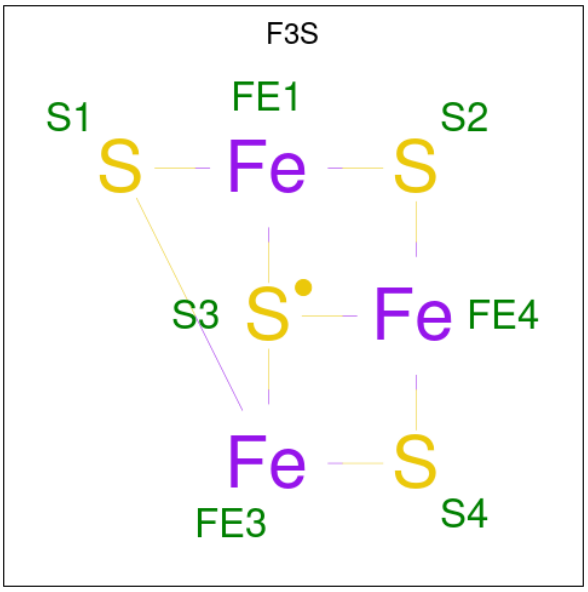
Mol	Chain	Residues	Atoms					AltConf
4	A	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	B	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	C	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	D	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	E	1	Total	C	N	O	P	0
			31	17	4	9	1	
4	F	1	Total	C	N	O	P	0
			31	17	4	9	1	

- Molecule 5 is 2-OXOGLUTARIC ACID (CCD ID: AKG) (formula: $C_5H_6O_5$).



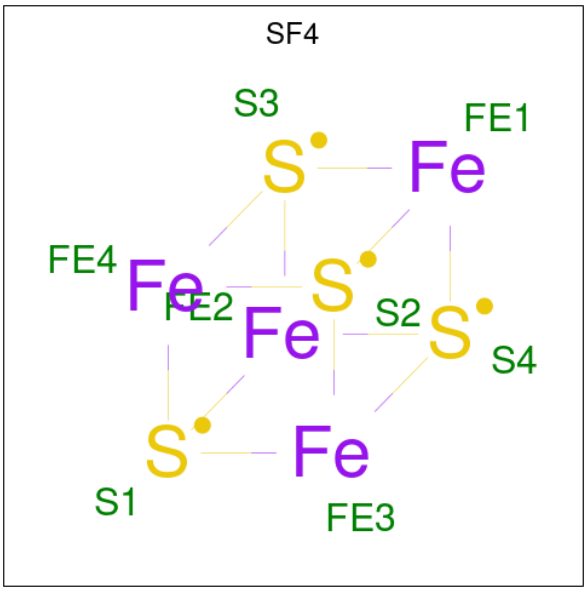
Mol	Chain	Residues	Atoms			AltConf
5	A	1	Total	C	O	0
			10	5	5	
5	B	1	Total	C	O	0
			10	5	5	
5	C	1	Total	C	O	0
			10	5	5	
5	D	1	Total	C	O	0
			10	5	5	
5	E	1	Total	C	O	0
			10	5	5	
5	F	1	Total	C	O	0
			10	5	5	

- Molecule 6 is FE3-S4 CLUSTER (CCD ID: F3S) (formula: Fe_3S_4).



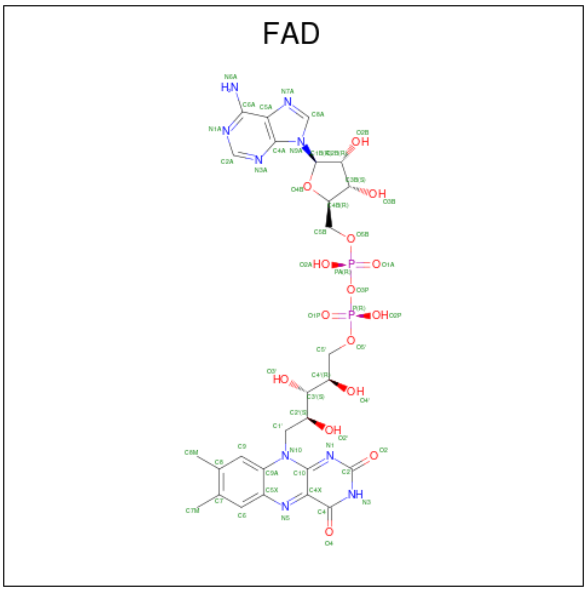
Mol	Chain	Residues	Atoms			AltConf
			Total	Fe	S	
6	A	1	7	3	4	0
6	B	1	7	3	4	0
6	C	1	7	3	4	0
6	D	1	7	3	4	0
6	E	1	7	3	4	0
6	F	1	7	3	4	0

- Molecule 7 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms	AltConf
7	G	1	Total Fe S 8 4 4	0
7	G	1	Total Fe S 8 4 4	0
7	H	1	Total Fe S 8 4 4	0
7	H	1	Total Fe S 8 4 4	0
7	I	1	Total Fe S 8 4 4	0
7	I	1	Total Fe S 8 4 4	0
7	J	1	Total Fe S 8 4 4	0
7	J	1	Total Fe S 8 4 4	0
7	K	1	Total Fe S 8 4 4	0
7	K	1	Total Fe S 8 4 4	0
7	L	1	Total Fe S 8 4 4	0
7	L	1	Total Fe S 8 4 4	0

- Molecule 8 is FLAVIN-ADENINE DINUCLEOTIDE (CCD ID: FAD) (formula: $C_{27}H_{33}N_9O_{15}P_2$).



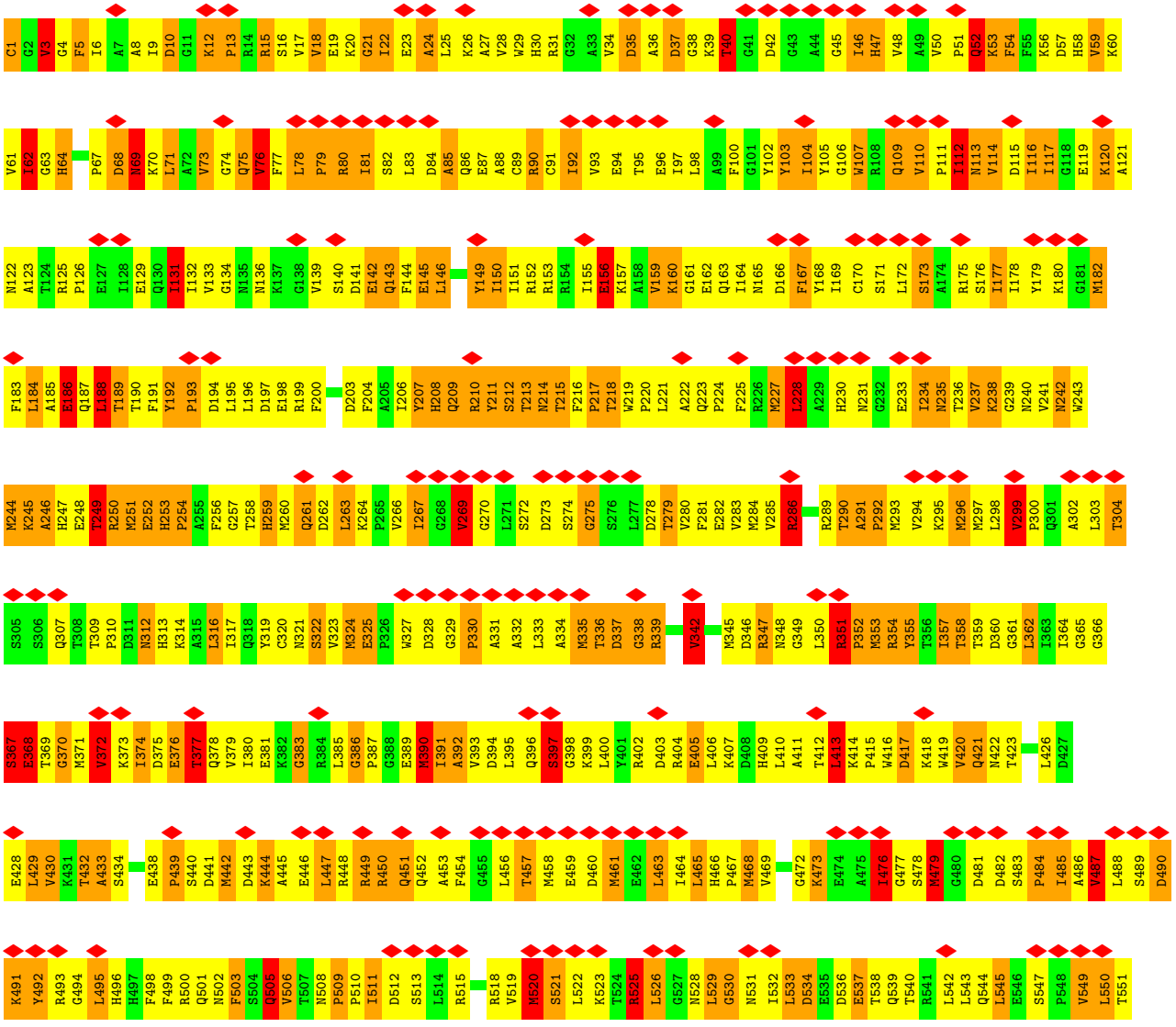
Mol	Chain	Residues	Atoms					AltConf
8	G	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	H	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	I	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	J	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	K	1	Total	C	N	O	P	0
			53	27	9	15	2	
8	L	1	Total	C	N	O	P	0
			53	27	9	15	2	

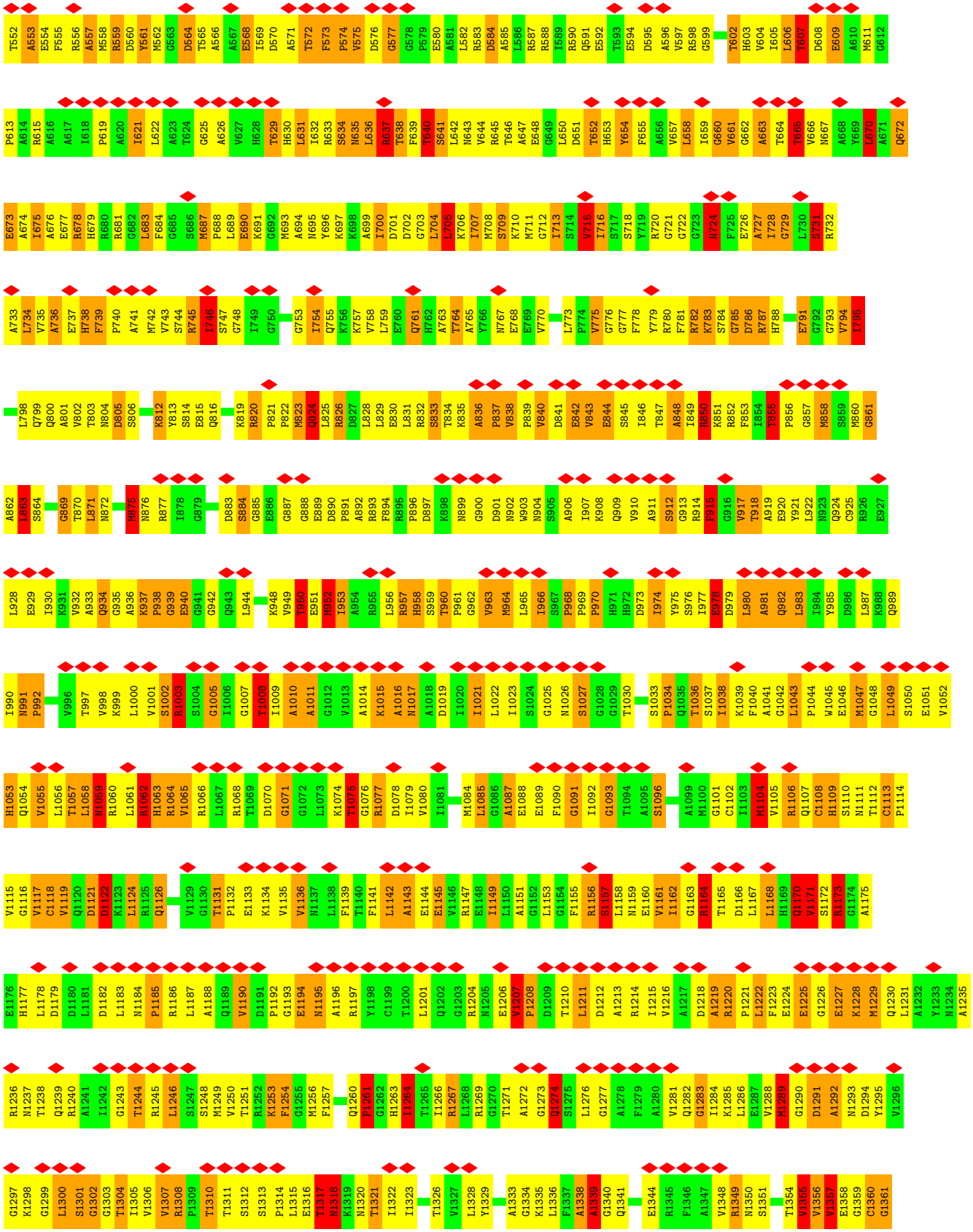
3 Residue-property plots (i)

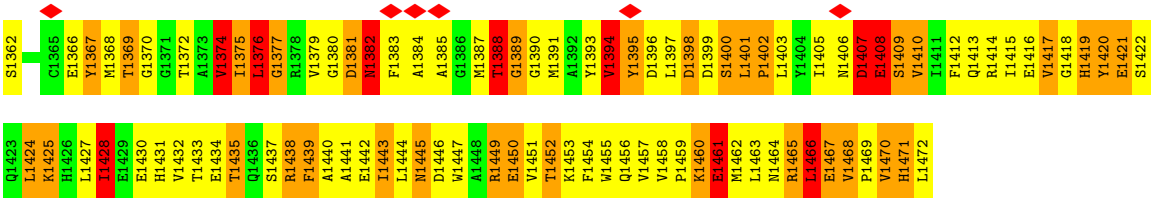
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion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

• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

Chain A:

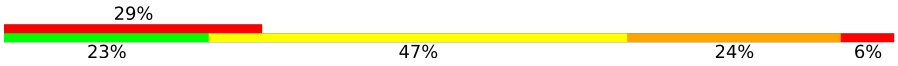


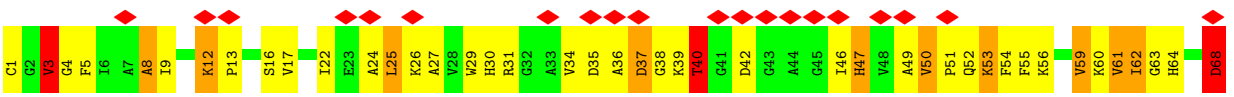

T552 A553 E554 F555 R556 A557 M558 R559 D560 Y561 M562 G563 D564 T565 A566 A567 E568 I569 D570 A571 T572 F573 P574 V575 D576 G577 G578 P579 E580 A581 L582 R583 D584 A585 L586 R587 R588 I589 R590 Q591 E592 T593 E594 D595 A596 V597 R598 G599 T602 H603 V604 I605 L606 T607 D608 E609 A610 M611 G612
P613 A614 R615 A616 A617 I618 P619 A620 I621 L622 A623 T624 G625 A626 V627 H628 T629 H630 L631 I632 R633 S634 N635 L636 R637 T638 F639 T640 S641 L642 N643 V644 R645 T646 A647 E648 G649 L650 D651 T652 H653 Y654 F655 A656 V657 L658 I659 G660 V661 G662 A663 T664 T665 V666 N667 A668 Y669 L670 A671 Q672
E673 A674 I675 A676 E677 R678 H679 R680 R681 G682 L683 F684 G685 S686 M687 P688 L689 E690 K691 G692 M693 A694 N695 Y696 K697 K698 A699 I700 D701 D702 G703 L704 L705 K706 I707 M708 S709 K710 M711 G712 I713 S714 V715 I716 S717 S718 Y719 R720 G721 G722 G723 N724 F725 E726 A727 I728 G729 L730 S731 R732
A733 L734 V735 A736 E737 H738 F739 P740 A741 M742 V743 S744 R745 I746 S747 G748 I749 G750 G753 I754 Q755 K756 K757 V758 L759 E760 Q761 H762 A763 T764 A765 Y766 N767 E768 E769 V770 L773 P774 V775 G776 G777 F778 Y779 R780 F781 R782 K783 S784 G785 D786 R787 H788 E791 G792 G793 V794 I795
L798 Q799 Q800 A801 V802 T803 N804 D805 S806 K812 Y813 S814 E815 Q816 K819 R820 P821 P822 M823 Q824 L825 R826 D827 L828 L829 E830 L831 R832 S833 T834 K835 A836 P837 V838 P839 V840 D841 E842 V843 E844 S845 I846 T847 A848 I849 R850 K851 R852 F853 I854 T855 P856 G857 M858 S859 M860 G861
A862 L863 S864 G869 T870 L871 N872 M875 N876 R877 I878 G879 D883 S884 G885 E886 G887 G888 E889 D890 P891 A892 R893 P894 R895 P896 D897 K898 N899 G900 D901 N902 W903 N904 S905 A906 I907 K908 Q909 V910 A911 S912 G913 R914 F915 G916 V917 T918 A919 E920 Y921 L922 N923 Q924 C925 R926 E927
L928 E929 I930 K931 V932 A933 Q934 G935 A936 K937 P938 G939 E940 G941 G942 Q943 L944 K948 V949 T950 E951 N952 I953 A954 R955 L956 R957 H958 S959 T960 P961 G962 V963 M964 L965 I966 S967 P968 P969 P970 H971 H972 D973 I974 Y975 S976 I977 E978 D979 L980 A981 Q982 L983 I984 Y985 D986 L987 K988 Q989
I990 N991 P992 V996 T997 V998 K999 L1000 V1001 S1002 R1003 S1004 G1005 I1006 G1007 T1008 I1009 A1010 A1011 G1012 V1013 A1014 K1015 A1016 N1017 A1018 D1019 I1020 I1021 L1022 I1023 S1024 G1025 N1026 S1027 G1028 G1029 T1030 S1033 P1034 Q1035 T1036 S1037 I1038 K1039 F1040 A1041 G1042 L1043 P1044 W1045 E1046 M1047 G1048 L1049 S1050 E1051 V1052
H1053 Q1054 V1055 L1056 T1057 L1058 N1059 R1060 L1061 R1062 H1063 R1064 V1065 R1066 L1067 R1068 T1069 D1070 G1071 G1072 L1073 K1074 T1075 G1076 R1077 D1078 I1079 V1080 I1081 M1084 L1085 G1086 A1087 E1088 E1089 F1090 G1091 I1092 G1093 T1094 A1095 S1096 A1099 M1100 G1101 C1102 I1103 M1104 V1105 R1106 Q1107 C1108 H1109 S1110 N1111 T1112 C1113 P1114
V1115 G1116 V1117 C1118 V1119 Q1120 D1121 D1122 K1123 L1124 R1125 Q1126 V1129 G1130 T1131 P1132 E1133 K1134 V1135 V1136 N1137 L1138 F1139 T1140 F1141 L1142 A1143 E1144 E1145 V1146 R1147 E1148 I1149 L1150 A1151 G1152 L1153 G1154 F1155 R1156 S1157 L1158 N1159 E1160 V1161 I1162 G1163 R1164 T1165 D1166 L1167 L1168 H1169 Q1170 V1171 S1172 R1173 G1174 A1175
E1176 H1177 L1178 D1179 D1180 L1181 D1182 L1183 N1184 P1185 R1186 L1187 A1188 Q1189 V1190 D1191 P1192 G1193 E1194 N1195 A1196 R1197 Y1198 C1199 T1200 L1201 Q1202 G1203 R1204 N1205 E1206 V1207 P1208 D1209 T1210 L1211 D1212 A1213 R1214 I1215 V1216 A1217 D1218 A1219 R1220 P1221 L1222 F1223 E1224 E1225 G1226 E1227 K1228 M1229 Q1230 L1231 A1232 Y1233 N1234 A1235
R1236 N1237 T1238 Q1239 R1240 A1241 I1242 G1243 T1244 R1245 L1246 S1247 S1248 M1249 V1250 T1251 R1252 K1253 F1254 G1255 M1256 F1257 Q1260 P1261 G1262 H1263 I1264 T1265 I1266 R1267 L1268 R1269 G1270 T1271 A1272 G1273 Q1274 S1275 L1276 G1277 A1278 F1279 A1280 V1281 Q1282 G1283 I1284 K1285 L1286 E1287 V1288 M1289 G1290 D1291 A1292 N1293 D1294 Y1295 V1296
G1297 K1298 G1299 L1300 S1301 G1302 G1303 T1304 I1305 V1306 V1307 R1308 P1309 T1310 T1311 S1312 S1313 P1314 L1315 E1316 T1317 N1318 K1319 N1320 T1321 I1322 I1323 T1326 V1327 L1328 Y1329 A1333 G1334 K1335 L1336 F1337 A1338 A1339 G1340 Q1341 E1344 R1345 F1346 A1347 V1348 R1349 N1350 S1351 T1354 V1355 V1356 V1357 E1358 G1359 C1360 G1361

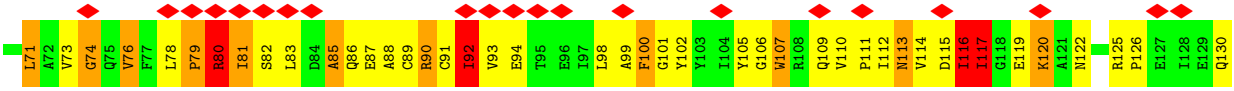


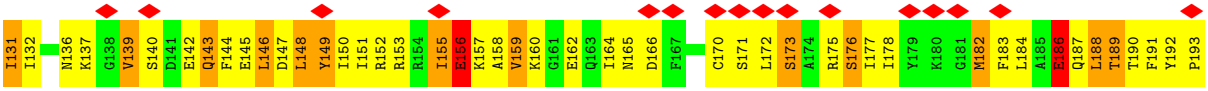
• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

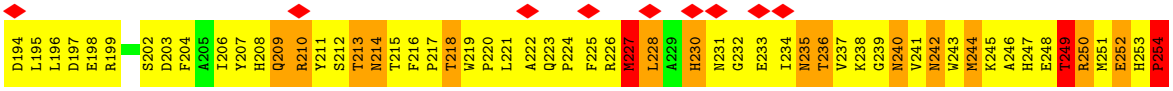
Chain B:

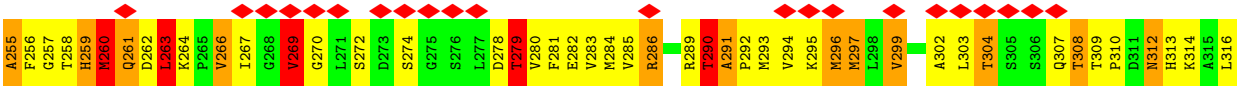


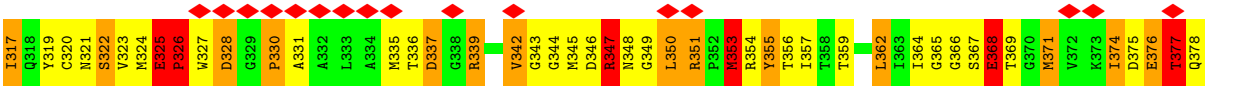


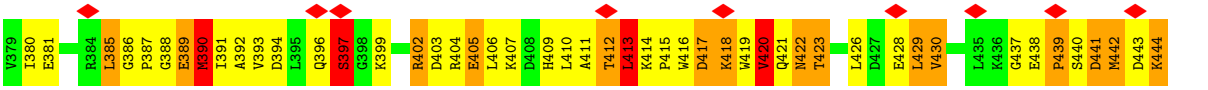


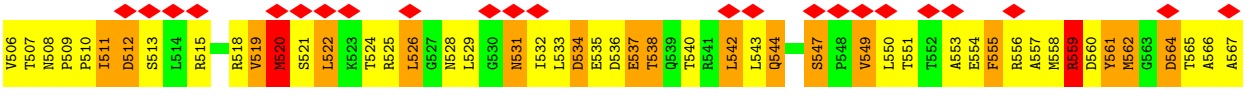


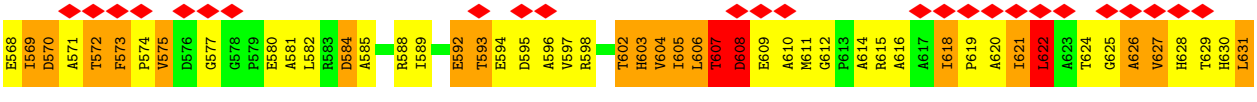


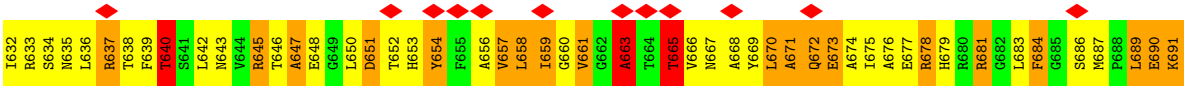


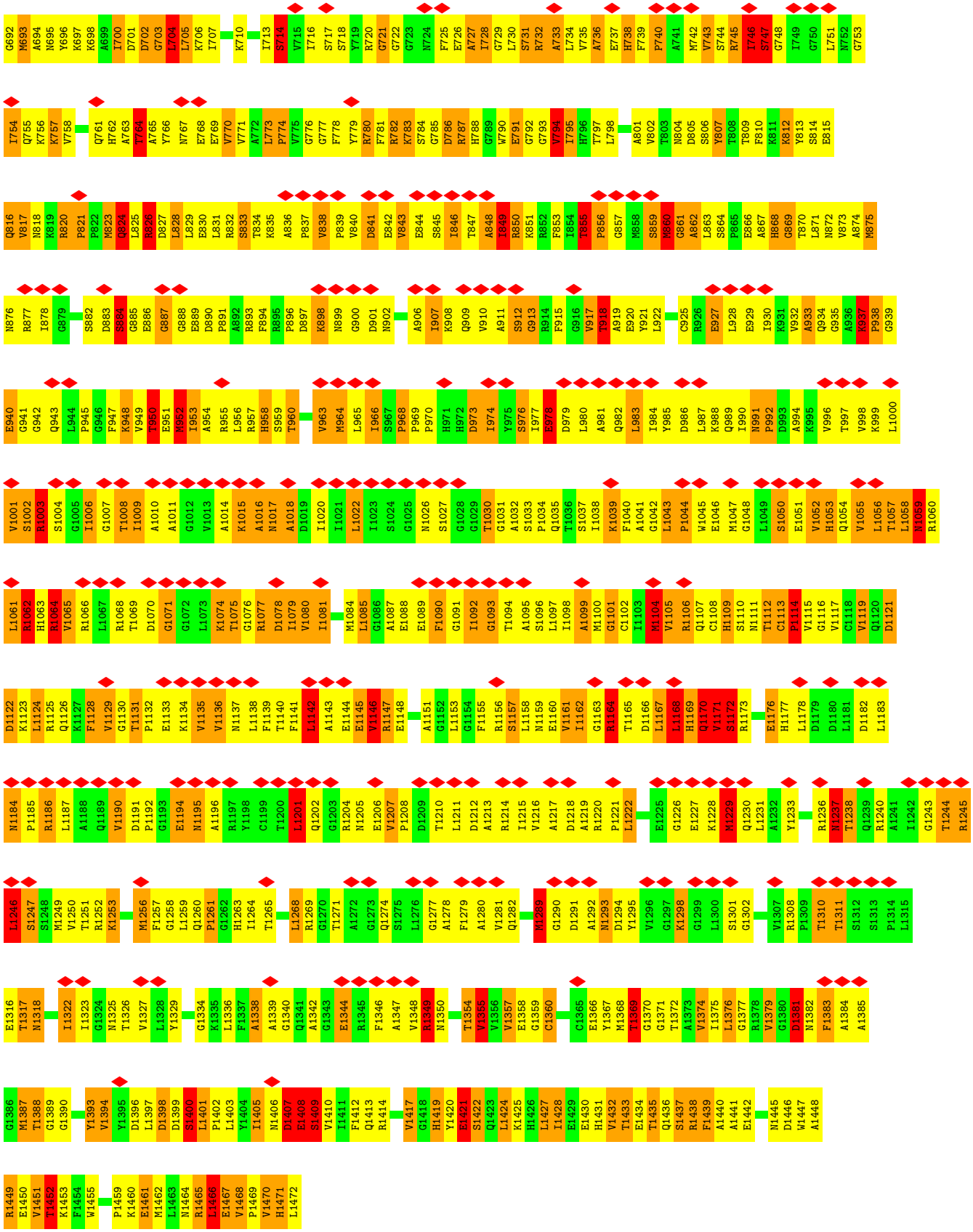






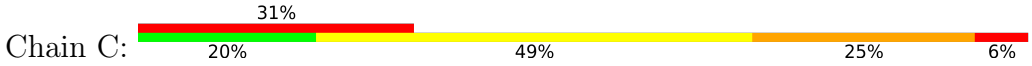






• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

Chain C: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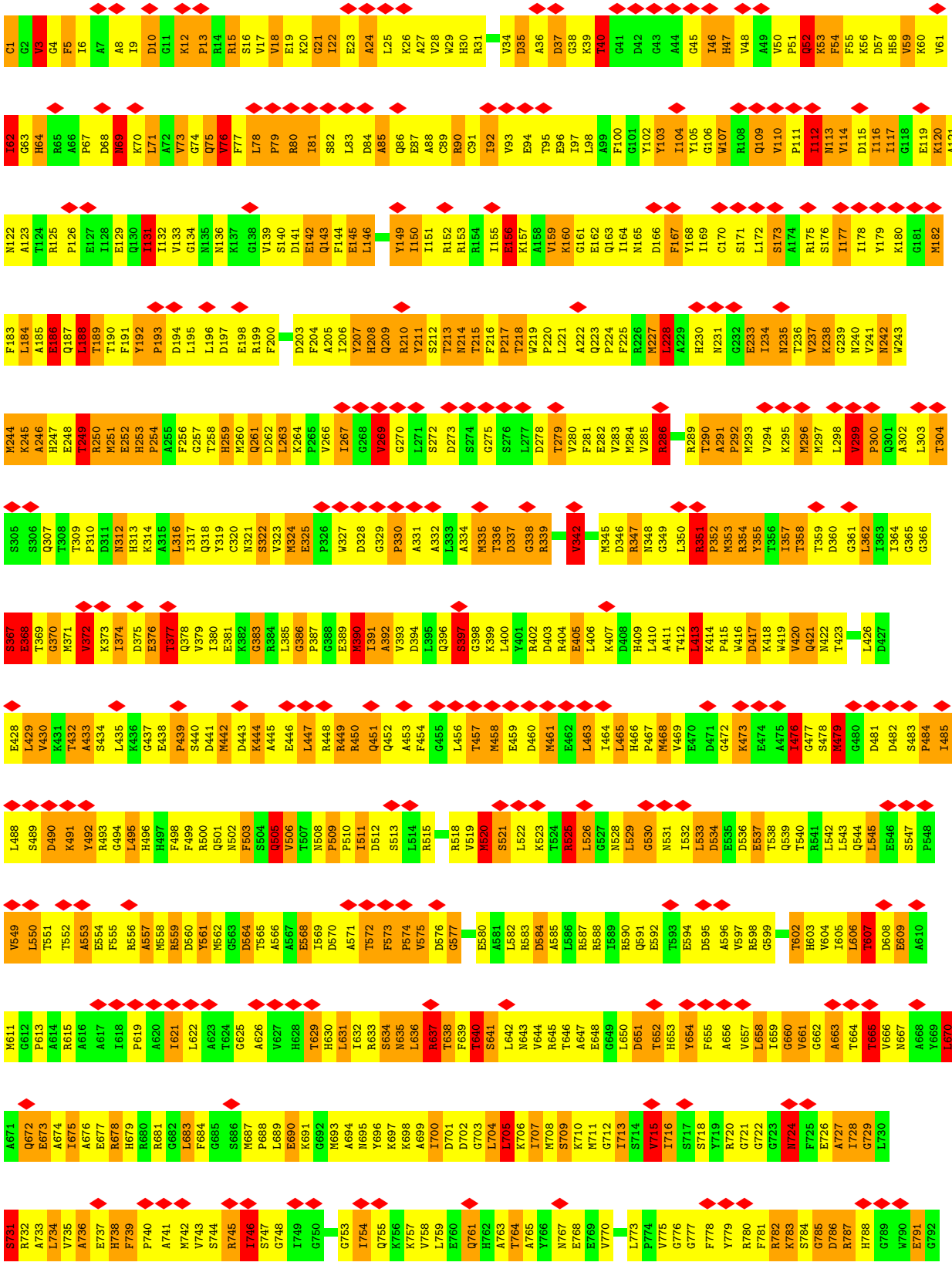
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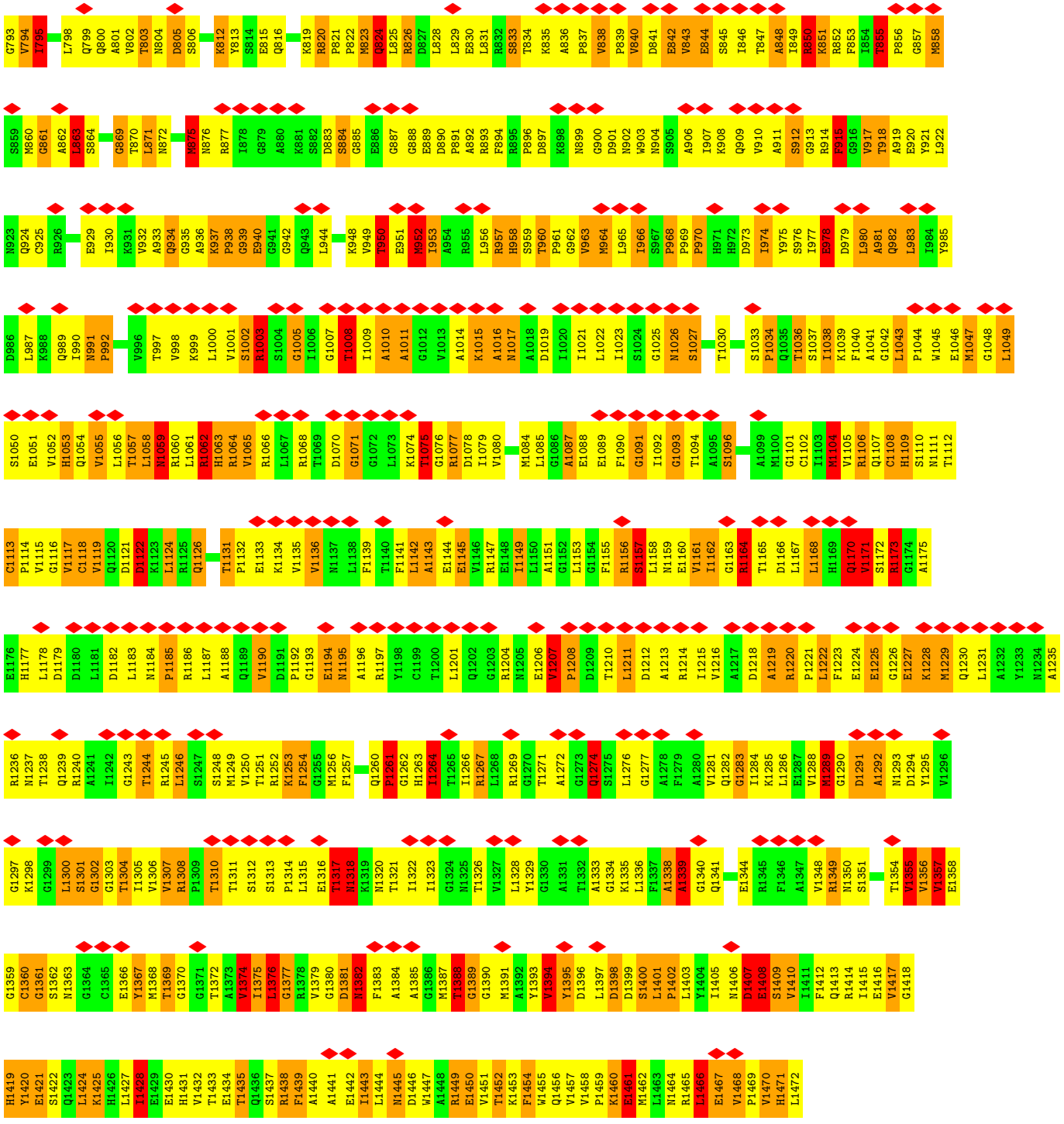
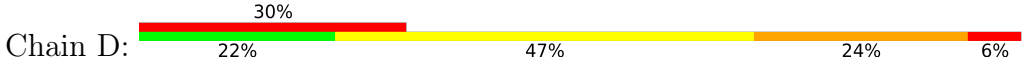
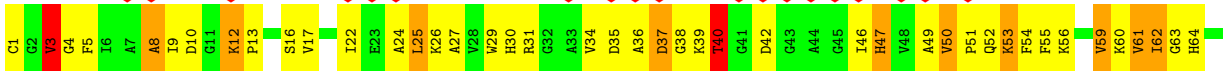
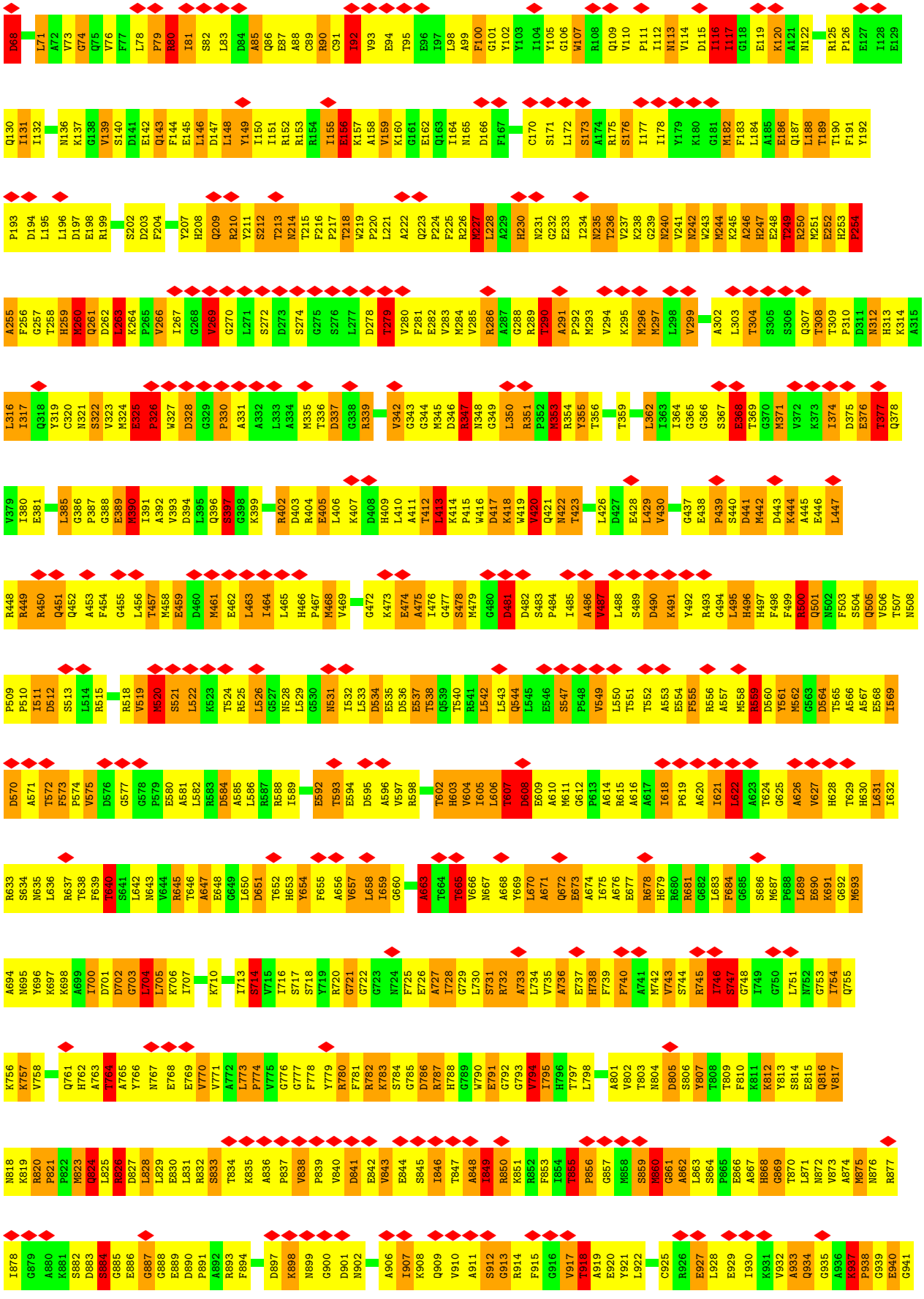


• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN



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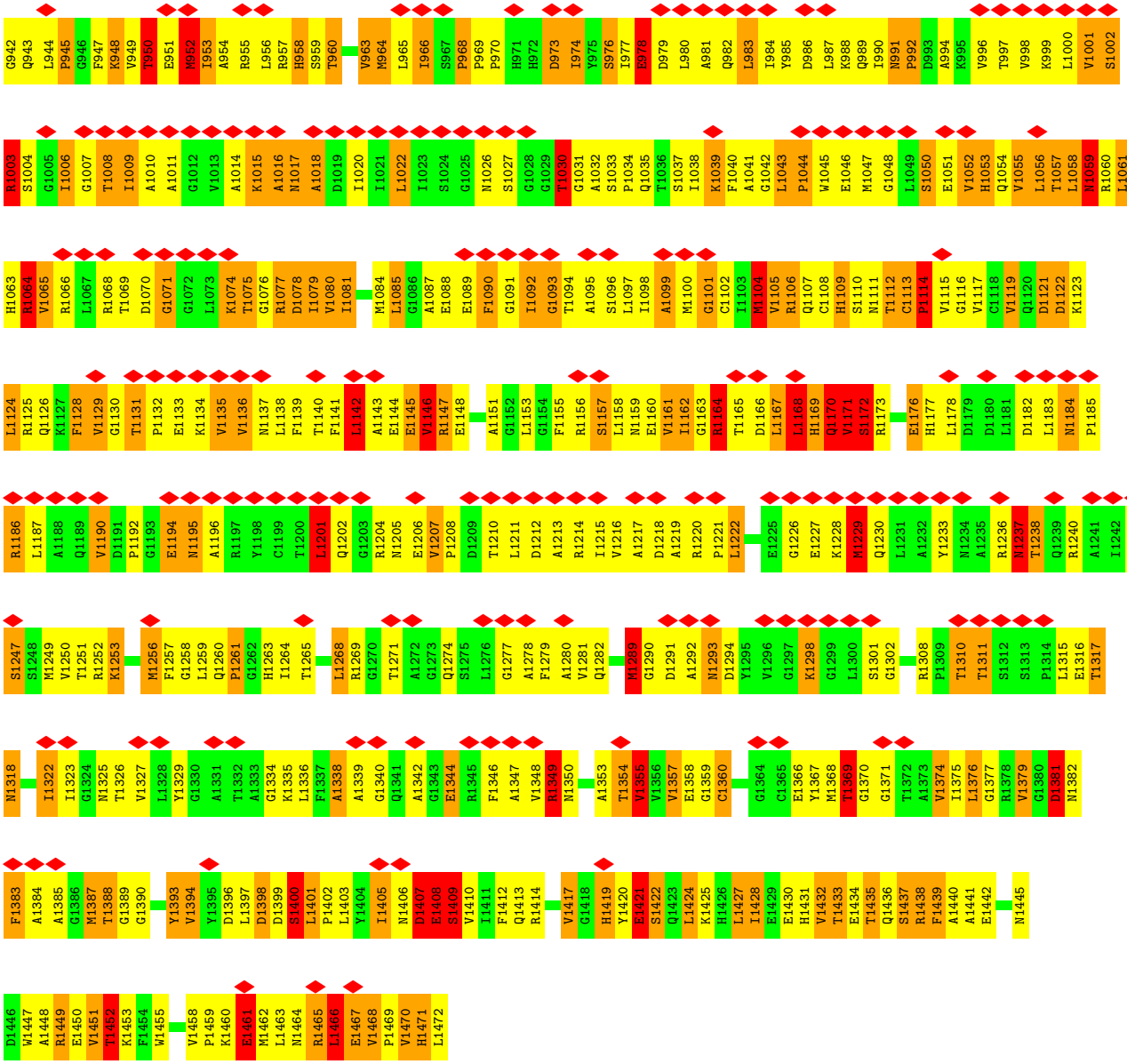
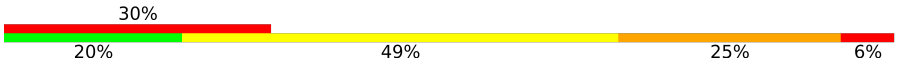
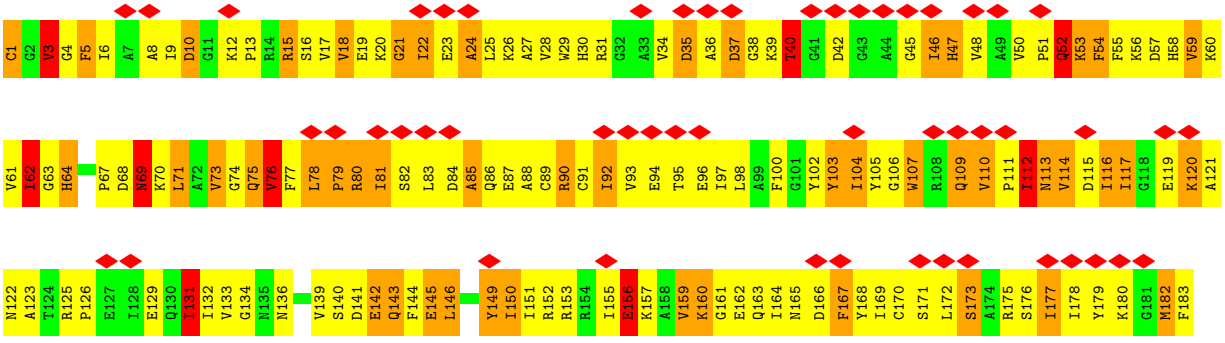
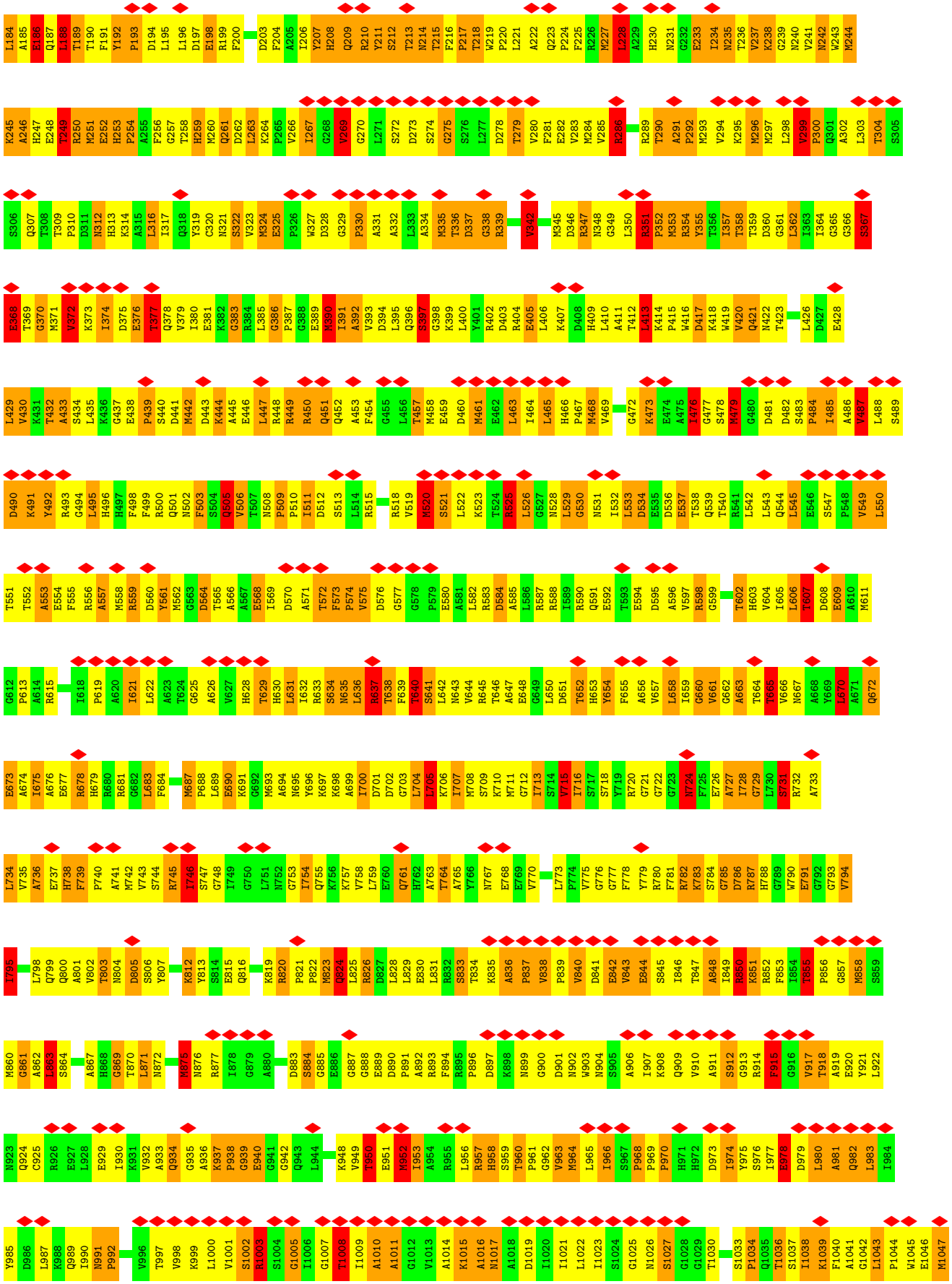


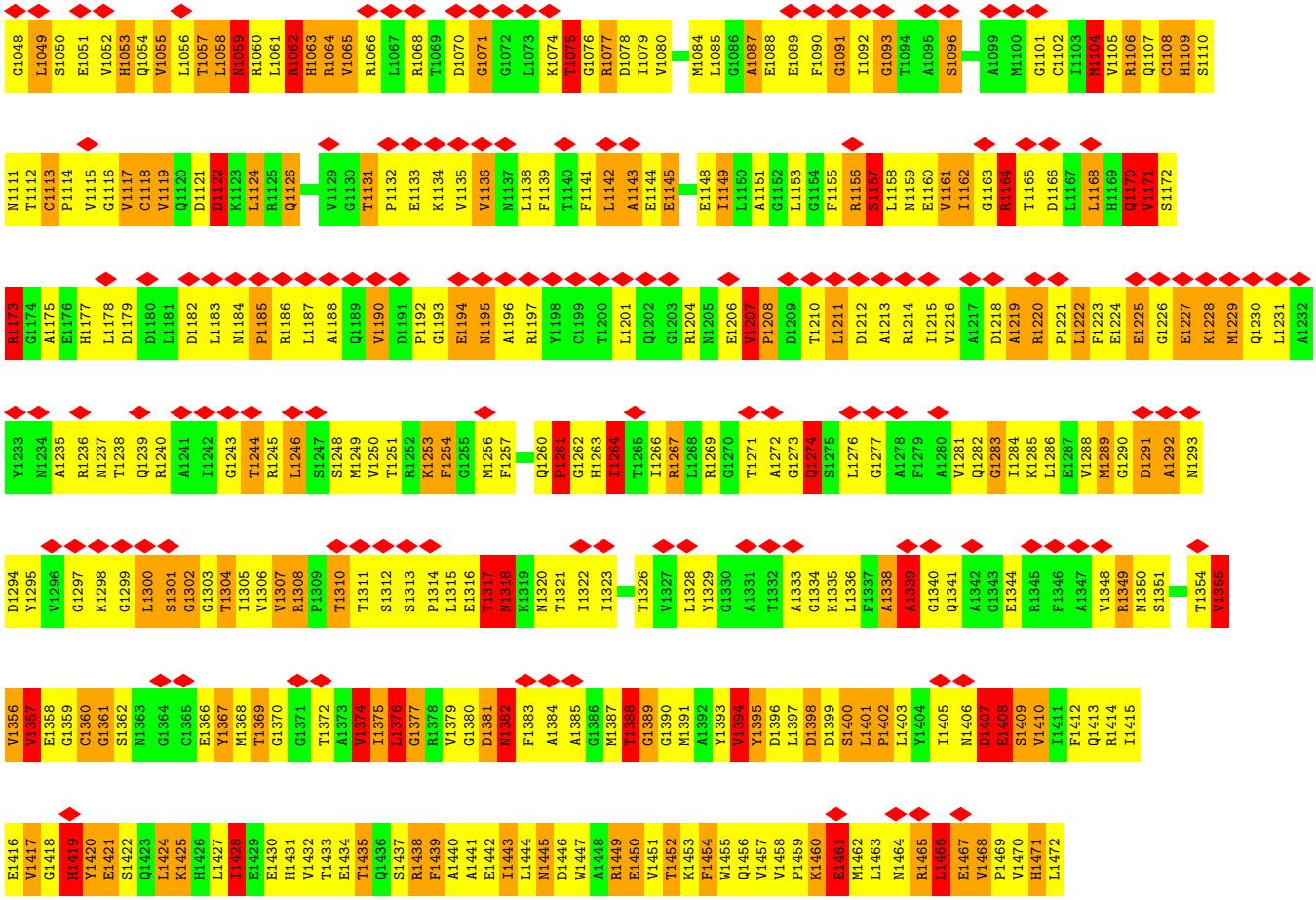
• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

Chain E:



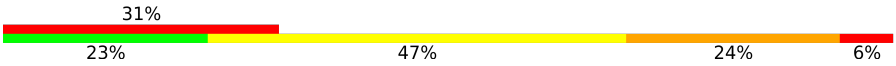


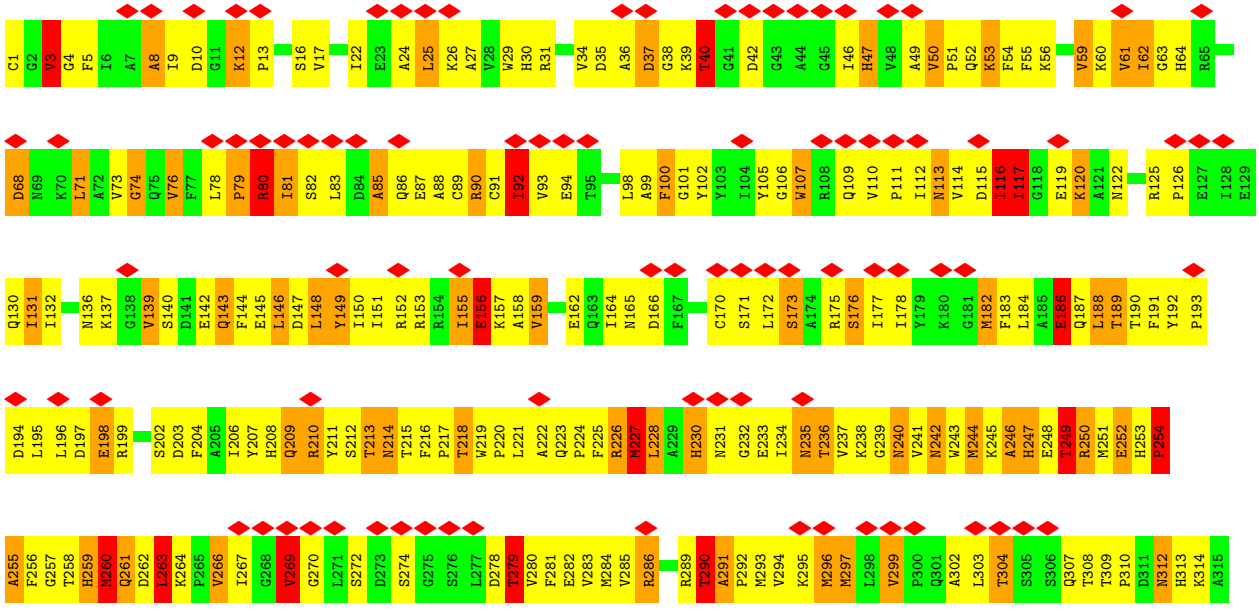


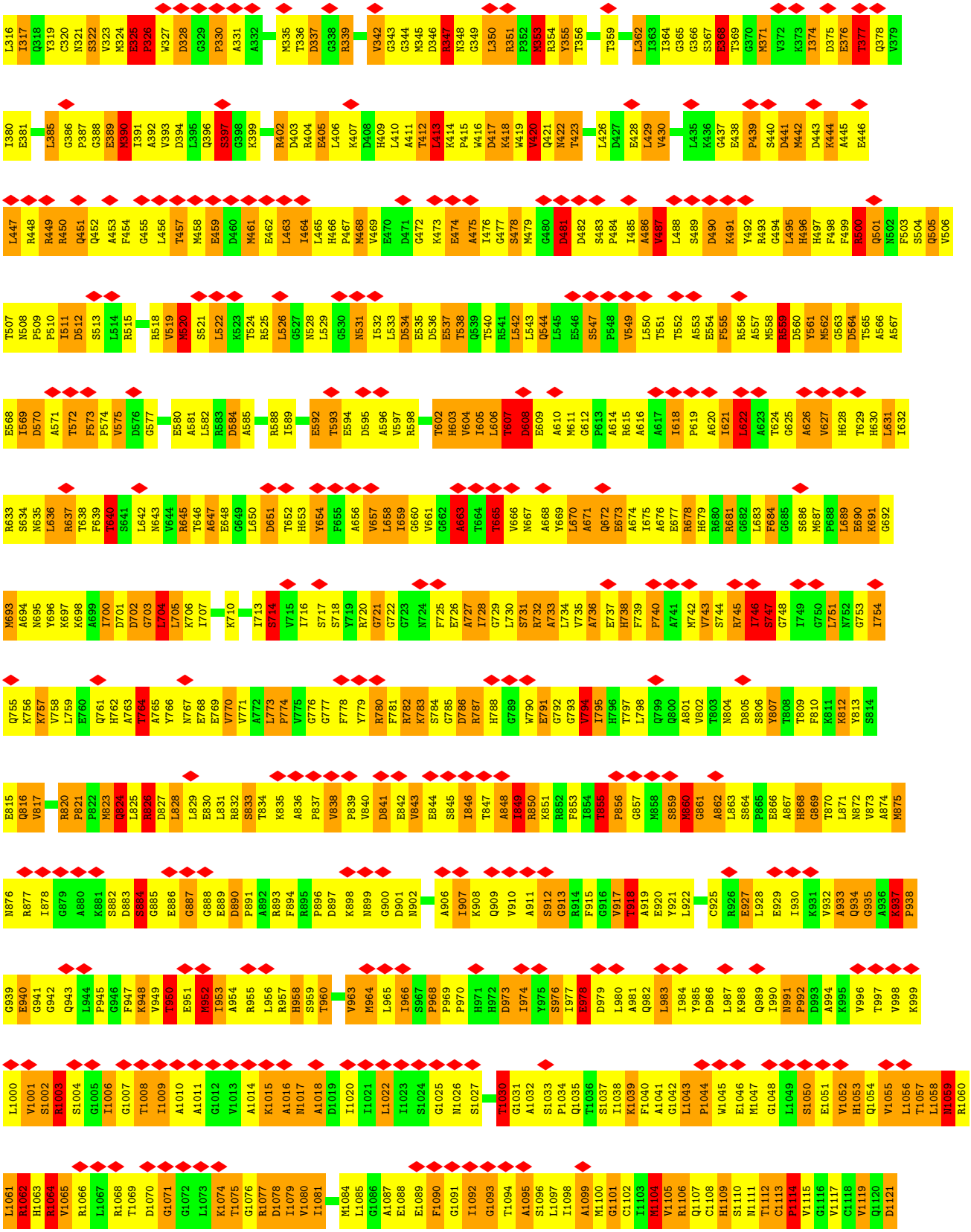


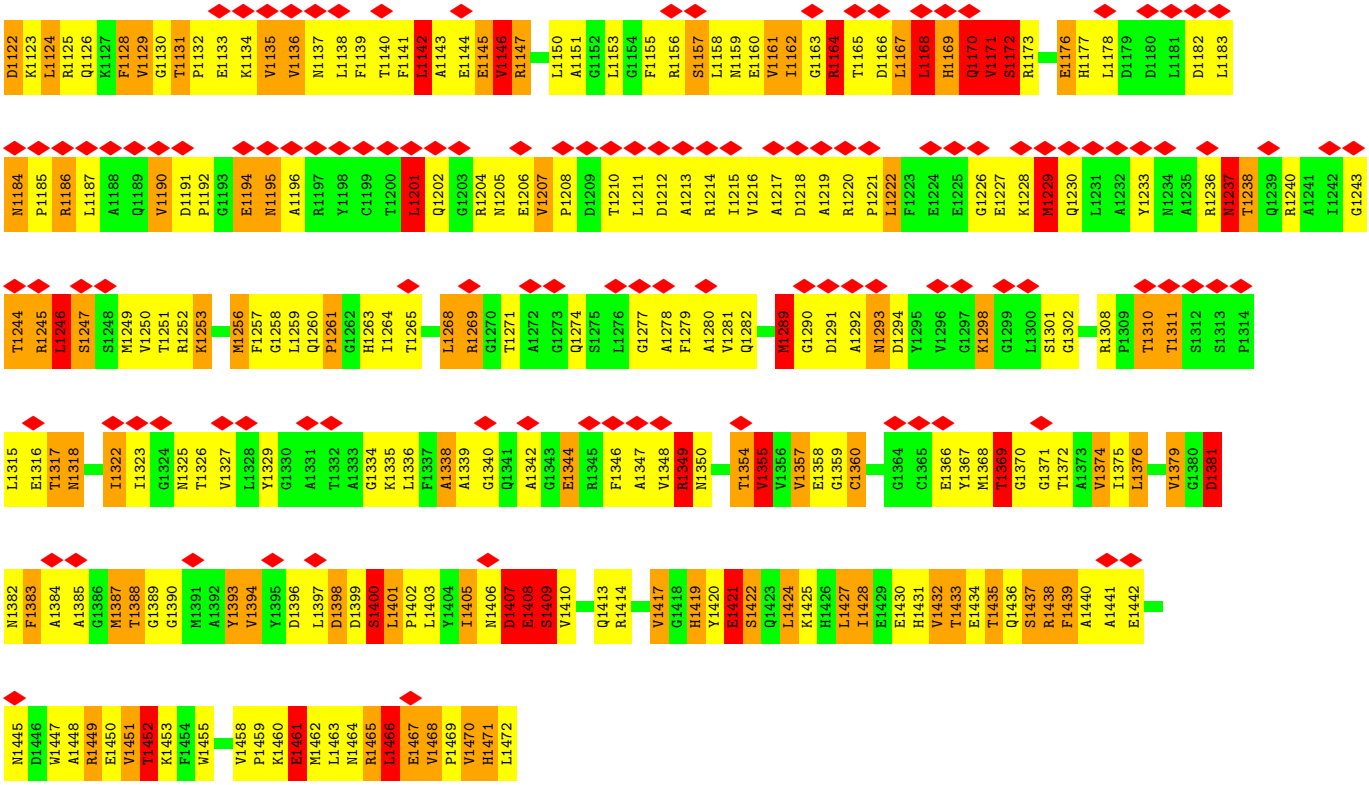
• Molecule 1: GLUTAMATE SYNTHASE [NADPH] LARGE CHAIN

Chain F:



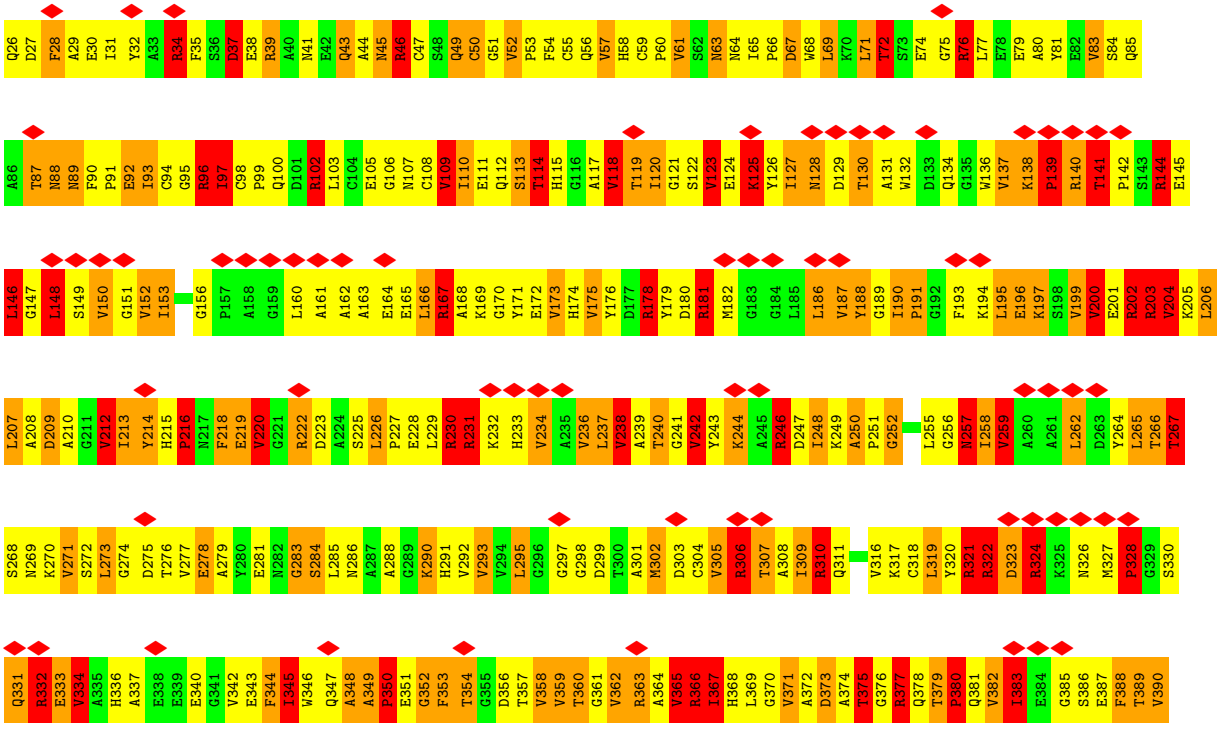


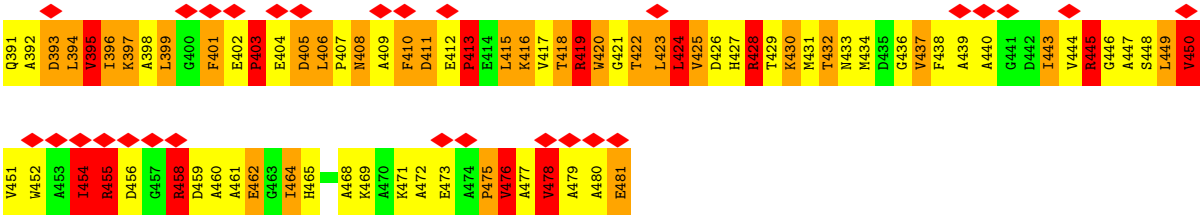




• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

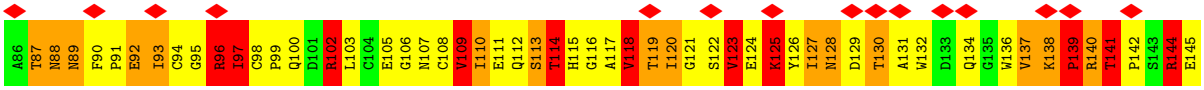
Chain G:

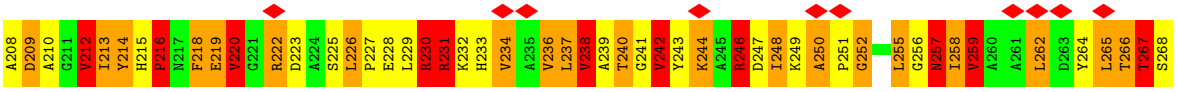


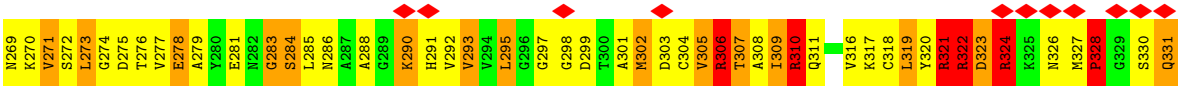


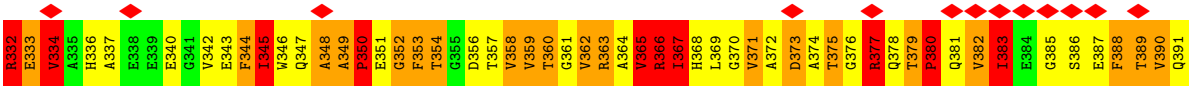
• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

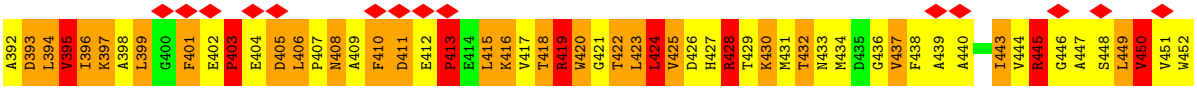
Chain H:





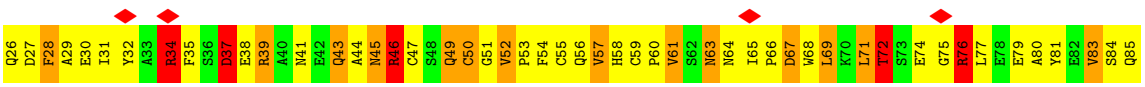


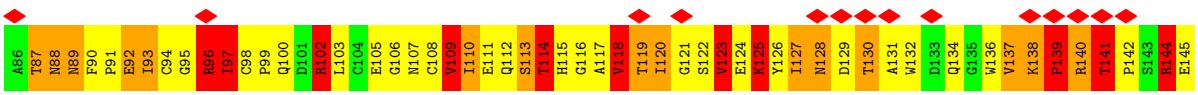


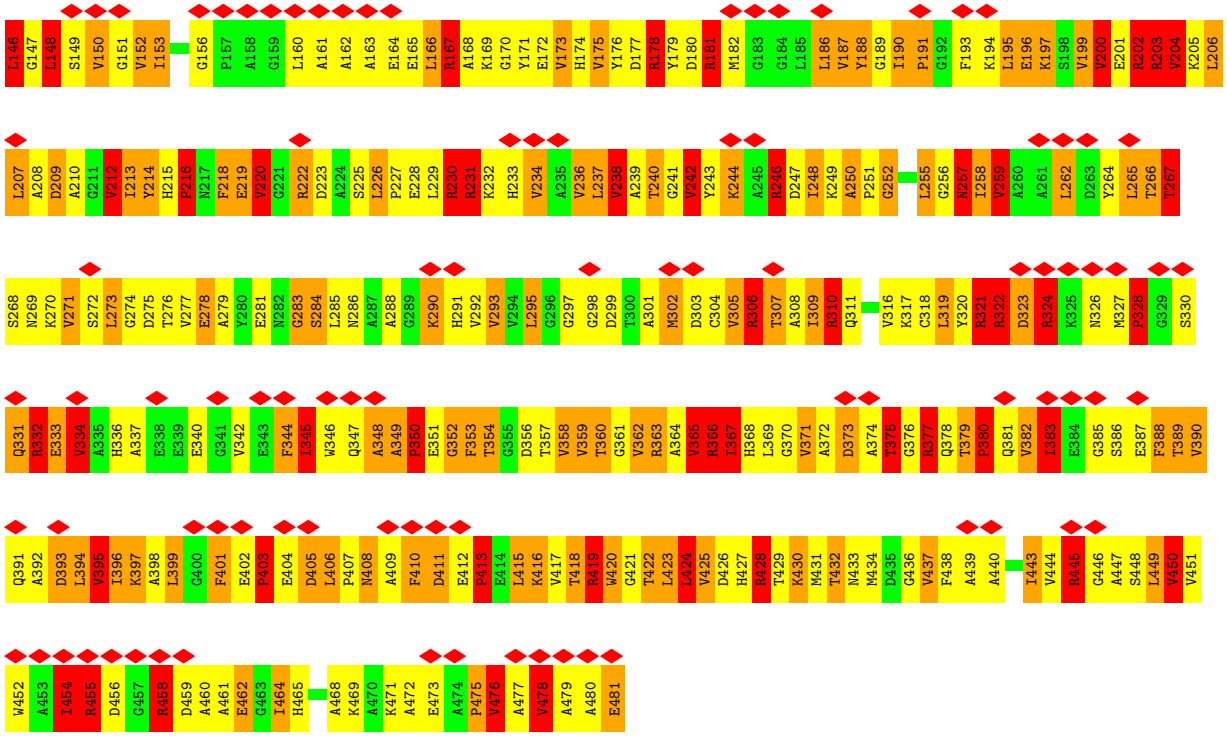


• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

Chain I:

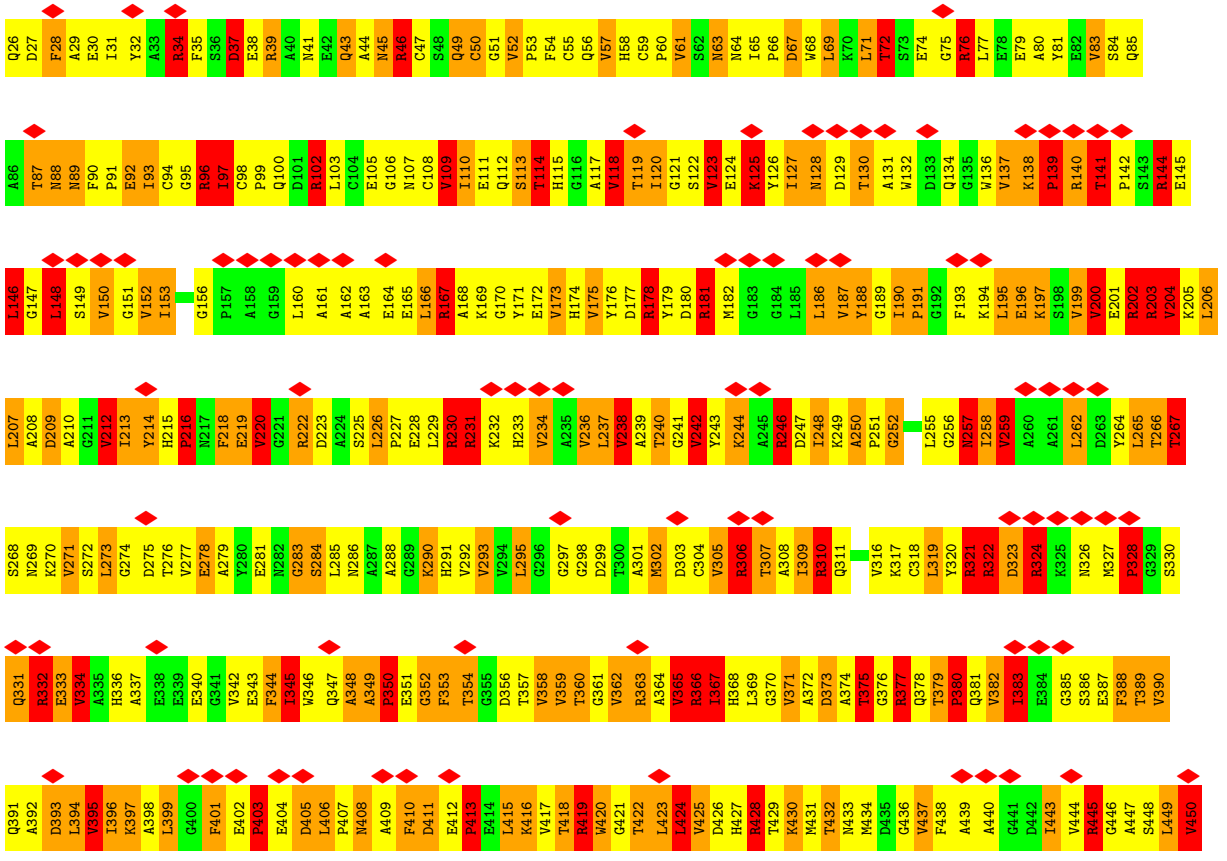


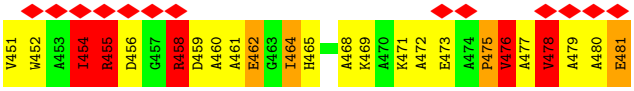




• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

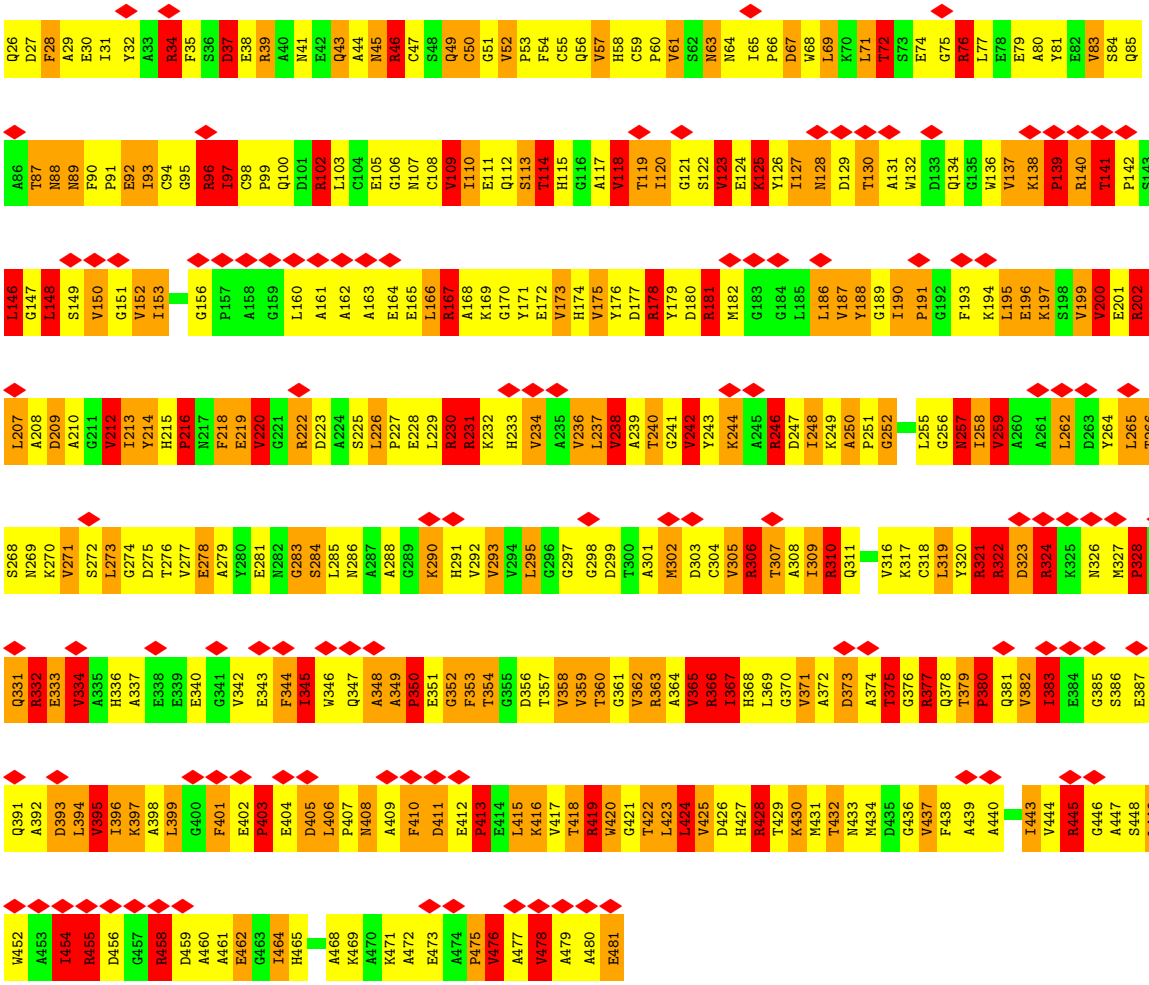
Chain J:





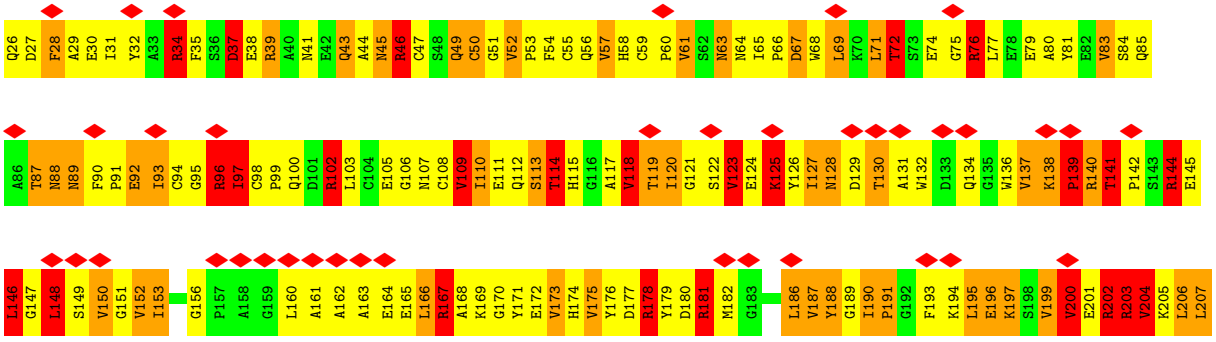
• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

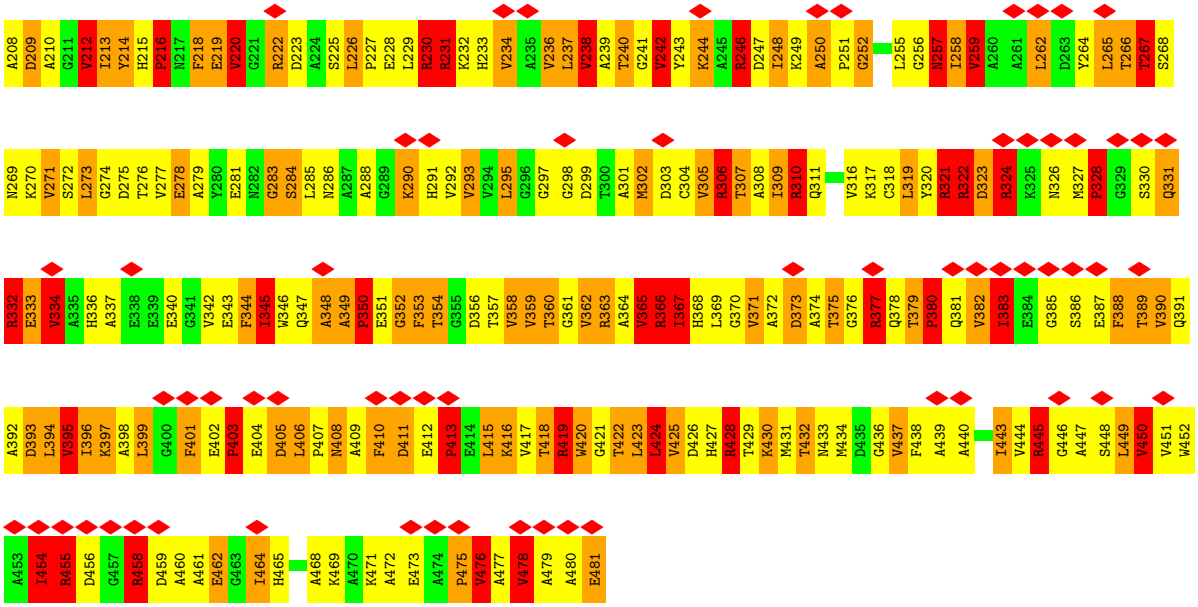
Chain K:



• Molecule 2: GLUTAMATE SYNTHASE [NADPH] SMALL CHAIN

Chain L:




A208 D209 A210 G211 V212 I213 Y214 H215 P216 N217 F218 E219 V220 G221 R222 D223 A224 S225 L226 P227 E228 L229 R230 R231 K232 H233 V234 A235 V236 L237 V238 A239 T240 G241 V242 Y243 K244 A245 R246 D247 I248 K249 A250 P251 G252 L255 G256 N257 I258 V259 A260 A261 L262 D263 Y264 L265 T266 I267 S268
N269 K270 V271 S272 L273 G274 D275 T276 V277 E278 A279 Y280 E281 N282 G283 S284 L285 N286 A287 A288 G289 K290 H291 V292 V293 V294 L295 G296 G297 G298 D299 T300 A301 M302 D303 C304 V305 R306 T307 A308 I309 R310 Q311 V316 K317 C318 L319 Y320 R321 R322 D323 R324 K325 N326 M327 P328 G329 S330 Q331
R332 E333 V334 A335 H336 A337 E338 E339 E340 G341 V342 E343 F344 I345 W346 Q347 A348 A349 P350 E351 G352 F353 T354 G355 D356 T357 V358 V359 T360 G361 V362 R363 A364 V365 R366 I367 H368 L369 G370 V371 A372 D373 A374 T375 G376 R377 Q378 T379 P380 Q381 V382 I383 E384 G385 S386 E387 F388 T389 V390 Q391
A392 D393 L394 V395 I396 K397 A398 L399 G400 F401 E402 P403 E404 D405 L406 P407 N408 A409 F410 D411 E412 P413 E414 L415 K416 V417 T418 R419 W420 G421 T422 L423 L424 V425 D426 H427 R428 T429 K430 M431 T432 N433 M434 D435 G436 V437 F438 A439 A440 I443 V444 R445 G446 A447 S448 L449 V450 V451 W452
A453 I454 R455 D456 G457 R458 D459 A460 A461 E462 G463 I464 H465 A468 K469 A470 K471 A472 E473 A474 P475 V476 A477 V478 A479 A480 E481

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, I	Depositor
Number of particles used	12800	Depositor
Resolution determination method	Not provided	
CTF correction method	WIENER FILTERING OF VOLUMES FROM FOCAL SERIES	Depositor
Microscope	JEOL 2010UHR	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	10	Depositor
Minimum defocus (nm)	1700	Depositor
Maximum defocus (nm)	3200	Depositor
Magnification	50000	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	1332.420	Depositor
Minimum map value	-799.538	Depositor
Average map value	5.063	Depositor
Map value standard deviation	98.686	Depositor
Recommended contour level	125	Depositor
Map size (Å)	304.8, 304.8, 304.8	wwPDB
Map dimensions	192, 192, 192	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	1.5875, 1.5875, 1.5875	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: SF4, AKG, FAD, F3S, FMN, OMT

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	1.45	82/11545 (0.7%)	2.02	427/15613 (2.7%)
1	B	1.49	96/11545 (0.8%)	2.00	415/15613 (2.7%)
1	C	1.45	81/11545 (0.7%)	2.02	427/15613 (2.7%)
1	D	1.49	96/11545 (0.8%)	2.00	416/15613 (2.7%)
1	E	1.45	82/11545 (0.7%)	2.02	427/15613 (2.7%)
1	F	1.49	94/11545 (0.8%)	2.00	415/15613 (2.7%)
2	G	1.39	1/3533 (0.0%)	2.29	190/4793 (4.0%)
2	H	1.39	1/3533 (0.0%)	2.29	188/4793 (3.9%)
2	I	1.39	1/3533 (0.0%)	2.29	190/4793 (4.0%)
2	J	1.39	1/3533 (0.0%)	2.29	190/4793 (4.0%)
2	K	1.39	1/3533 (0.0%)	2.29	190/4793 (4.0%)
2	L	1.39	1/3533 (0.0%)	2.29	188/4793 (3.9%)
All	All	1.45	537/90468 (0.6%)	2.08	3663/122436 (3.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	1	3
1	B	0	2
1	C	1	3
1	D	0	2
1	E	1	3
1	F	0	2
2	G	0	31
2	H	0	31
2	I	0	31
2	J	0	31
2	K	0	31

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Mol	Chain	#Chirality outliers	#Planarity outliers
2	L	0	31
All	All	3	201

All (537) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	838	VAL	CA-CB	-18.99	1.38	1.55
1	A	838	VAL	CA-CB	-18.92	1.38	1.55
1	E	838	VAL	CA-CB	-18.88	1.38	1.55
1	E	746	ILE	CA-CB	-13.00	1.37	1.54
1	A	746	ILE	CA-CB	-12.94	1.37	1.54
1	C	746	ILE	CA-CB	-12.91	1.37	1.54
1	A	848	ALA	CA-CB	-9.36	1.38	1.53
1	E	848	ALA	CA-CB	-9.36	1.38	1.53
1	C	848	ALA	CA-CB	-9.36	1.38	1.53
1	C	849	ILE	CA-CB	-9.14	1.43	1.54
1	A	849	ILE	CA-CB	-9.14	1.43	1.54
1	E	849	ILE	CA-CB	-9.11	1.43	1.54
1	D	1289	MET	SD-CE	9.10	2.02	1.79
1	B	1289	MET	SD-CE	9.08	2.02	1.79
1	F	1289	MET	SD-CE	9.07	2.02	1.79
1	F	132	ILE	CA-CB	-8.74	1.44	1.54
1	B	713	ILE	CA-CB	-8.70	1.44	1.54
1	F	713	ILE	CA-CB	-8.70	1.44	1.54
1	B	132	ILE	CA-CB	-8.69	1.44	1.54
1	D	713	ILE	CA-CB	-8.68	1.44	1.54
1	D	132	ILE	CA-CB	-8.66	1.44	1.54
1	F	500	ARG	C-O	-8.20	1.13	1.23
1	B	500	ARG	C-O	-8.20	1.13	1.23
1	D	500	ARG	C-O	-8.18	1.13	1.23
1	E	1104	MET	SD-CE	-8.13	1.59	1.79
1	A	1104	MET	SD-CE	-8.11	1.59	1.79
1	C	1104	MET	SD-CE	-8.11	1.59	1.79
1	E	910	VAL	CA-CB	-7.96	1.43	1.54
1	B	963	VAL	CA-CB	-7.95	1.44	1.54
1	D	963	VAL	CA-CB	-7.93	1.44	1.54
1	C	910	VAL	CA-CB	-7.93	1.43	1.54
1	A	910	VAL	CA-CB	-7.93	1.43	1.54
1	F	963	VAL	CA-CB	-7.92	1.44	1.54
1	F	1136	VAL	CA-CB	-7.83	1.43	1.54
1	C	741	ALA	CA-CB	-7.82	1.41	1.53
1	A	741	ALA	CA-CB	-7.80	1.41	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	741	ALA	CA-CB	-7.80	1.41	1.53
1	B	1136	VAL	CA-CB	-7.78	1.43	1.54
1	D	1136	VAL	CA-CB	-7.78	1.43	1.54
1	F	1055	VAL	CA-CB	-7.38	1.44	1.54
1	D	1055	VAL	CA-CB	-7.37	1.44	1.54
1	B	1055	VAL	CA-CB	-7.35	1.44	1.54
1	B	862	ALA	CA-CB	-7.31	1.41	1.53
1	D	862	ALA	CA-CB	-7.31	1.41	1.53
1	F	862	ALA	CA-CB	-7.31	1.41	1.53
1	F	838	VAL	CA-CB	-7.27	1.44	1.54
1	F	222	ALA	CA-CB	-7.25	1.41	1.53
1	D	222	ALA	CA-CB	-7.25	1.41	1.53
1	B	222	ALA	CA-CB	-7.24	1.41	1.53
1	D	838	VAL	CA-CB	-7.23	1.44	1.54
1	B	838	VAL	CA-CB	-7.23	1.44	1.54
1	E	3	VAL	CA-CB	-7.18	1.42	1.54
1	A	3	VAL	CA-CB	-7.18	1.42	1.54
1	D	227	MET	SD-CE	-7.18	1.61	1.79
1	B	227	MET	SD-CE	-7.17	1.61	1.79
1	F	227	MET	SD-CE	-7.16	1.61	1.79
1	C	3	VAL	CA-CB	-7.16	1.42	1.54
1	E	1047	MET	SD-CE	-7.15	1.61	1.79
1	E	1162	ILE	CA-CB	-7.14	1.47	1.54
1	F	996	VAL	CA-CB	-7.14	1.45	1.54
1	A	1047	MET	SD-CE	-7.13	1.61	1.79
1	B	8	ALA	CA-CB	-7.12	1.43	1.53
1	D	1256	MET	SD-CE	-7.12	1.61	1.79
1	B	996	VAL	CA-CB	-7.11	1.45	1.54
1	D	8	ALA	CA-CB	-7.11	1.43	1.53
1	D	996	VAL	CA-CB	-7.11	1.45	1.54
1	F	8	ALA	CA-CB	-7.11	1.43	1.53
1	C	1047	MET	SD-CE	-7.11	1.61	1.79
1	B	1256	MET	SD-CE	-7.10	1.61	1.79
1	F	1256	MET	SD-CE	-7.09	1.61	1.79
1	A	1162	ILE	CA-CB	-7.09	1.47	1.54
1	C	1162	ILE	CA-CB	-7.06	1.47	1.54
1	D	291	ALA	CA-CB	-7.00	1.44	1.53
1	F	291	ALA	CA-CB	-7.00	1.44	1.53
1	B	291	ALA	CA-CB	-6.99	1.44	1.53
1	C	728	ILE	C-O	-6.99	1.16	1.24
1	F	1171	VAL	CA-CB	-6.98	1.45	1.54
1	D	1171	VAL	CA-CB	-6.98	1.45	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	1117	VAL	CA-CB	-6.95	1.45	1.54
1	F	1117	VAL	CA-CB	-6.94	1.45	1.54
1	B	1117	VAL	CA-CB	-6.94	1.45	1.54
1	A	728	ILE	C-O	-6.94	1.16	1.24
1	A	1087	ALA	CA-CB	-6.94	1.42	1.53
1	A	795	ILE	CA-CB	-6.93	1.45	1.54
1	C	795	ILE	CA-CB	-6.93	1.45	1.54
1	B	1171	VAL	CA-CB	-6.93	1.45	1.54
1	E	1087	ALA	CA-CB	-6.92	1.42	1.53
1	E	795	ILE	CA-CB	-6.91	1.45	1.54
1	E	728	ILE	C-O	-6.91	1.16	1.24
1	C	1087	ALA	CA-CB	-6.90	1.42	1.53
1	C	1136	VAL	CA-CB	-6.89	1.46	1.54
1	A	1136	VAL	CA-CB	-6.84	1.46	1.54
1	B	849	ILE	CA-CB	-6.84	1.46	1.54
1	D	1293	ASN	C-O	-6.83	1.15	1.24
1	F	849	ILE	CA-CB	-6.83	1.46	1.54
1	D	849	ILE	CA-CB	-6.83	1.46	1.54
1	F	1293	ASN	C-O	-6.82	1.15	1.24
1	B	1293	ASN	C-O	-6.82	1.15	1.24
1	A	269	VAL	CA-CB	-6.81	1.47	1.54
1	E	1136	VAL	CA-CB	-6.81	1.46	1.54
1	E	222	ALA	CA-CB	-6.80	1.42	1.53
1	A	222	ALA	CA-CB	-6.80	1.42	1.53
1	E	269	VAL	CA-CB	-6.79	1.47	1.54
1	C	269	VAL	CA-CB	-6.78	1.47	1.54
1	C	222	ALA	CA-CB	-6.76	1.42	1.53
1	C	838	VAL	N-CA	-6.67	1.40	1.46
1	D	605	ILE	CA-CB	-6.65	1.46	1.54
1	F	605	ILE	CA-CB	-6.64	1.46	1.54
1	B	1342	ALA	CA-CB	-6.63	1.43	1.53
1	B	605	ILE	CA-CB	-6.62	1.46	1.54
1	F	1342	ALA	CA-CB	-6.61	1.43	1.53
1	F	848	ALA	CA-CB	-6.61	1.42	1.53
1	D	1342	ALA	CA-CB	-6.61	1.43	1.53
1	B	848	ALA	CA-CB	-6.60	1.42	1.53
1	B	506	VAL	CA-CB	-6.60	1.46	1.54
1	F	506	VAL	CA-CB	-6.60	1.46	1.54
1	C	713	ILE	CA-CB	-6.59	1.46	1.54
1	F	1087	ALA	CA-CB	-6.59	1.42	1.53
1	D	848	ALA	CA-CB	-6.58	1.42	1.53
1	A	713	ILE	CA-CB	-6.58	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	838	VAL	N-CA	-6.57	1.40	1.46
1	B	1087	ALA	CA-CB	-6.57	1.42	1.53
1	D	1087	ALA	CA-CB	-6.57	1.42	1.53
1	E	713	ILE	CA-CB	-6.57	1.46	1.54
1	D	506	VAL	CA-CB	-6.56	1.46	1.54
1	F	155	ILE	CA-CB	-6.55	1.46	1.54
1	D	283	VAL	CA-CB	-6.54	1.46	1.54
1	F	283	VAL	CA-CB	-6.54	1.46	1.54
1	B	283	VAL	CA-CB	-6.54	1.46	1.54
1	E	838	VAL	N-CA	-6.54	1.40	1.46
1	B	155	ILE	CA-CB	-6.51	1.46	1.54
1	F	728	ILE	CA-CB	-6.51	1.46	1.54
1	D	155	ILE	CA-CB	-6.50	1.46	1.54
1	C	300	PRO	CA-C	-6.49	1.45	1.52
1	B	728	ILE	CA-CB	-6.48	1.46	1.54
1	B	17	VAL	CA-CB	-6.48	1.46	1.54
1	E	300	PRO	CA-C	-6.48	1.45	1.52
1	D	917	VAL	CA-CB	-6.47	1.46	1.53
1	F	1374	VAL	CA-CB	-6.47	1.46	1.54
1	A	300	PRO	CA-C	-6.46	1.45	1.52
1	D	131	ILE	CA-CB	-6.46	1.46	1.54
1	E	1117	VAL	CA-CB	-6.46	1.45	1.54
1	B	746	ILE	CA-CB	-6.45	1.45	1.54
1	B	917	VAL	CA-CB	-6.45	1.46	1.53
1	D	17	VAL	CA-CB	-6.45	1.46	1.54
1	F	17	VAL	CA-CB	-6.45	1.46	1.54
1	C	1117	VAL	CA-CB	-6.45	1.45	1.54
1	D	728	ILE	CA-CB	-6.45	1.46	1.54
1	A	1117	VAL	CA-CB	-6.44	1.45	1.54
1	F	158	ALA	CA-CB	-6.44	1.43	1.53
1	A	981	ALA	CA-CB	-6.44	1.43	1.53
1	B	1374	VAL	CA-CB	-6.43	1.46	1.54
1	E	132	ILE	CA-CB	-6.43	1.46	1.54
1	E	981	ALA	CA-CB	-6.43	1.43	1.53
1	F	746	ILE	CA-CB	-6.43	1.45	1.54
1	A	132	ILE	CA-CB	-6.42	1.46	1.54
1	F	131	ILE	CA-CB	-6.42	1.46	1.54
1	A	875	MET	SD-CE	-6.42	1.63	1.79
1	E	875	MET	SD-CE	-6.42	1.63	1.79
1	F	917	VAL	CA-CB	-6.42	1.46	1.53
1	B	158	ALA	CA-CB	-6.42	1.43	1.53
1	C	981	ALA	CA-CB	-6.41	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	D	700	ILE	CA-CB	-6.41	1.45	1.54
1	D	746	ILE	CA-CB	-6.41	1.45	1.54
1	D	1374	VAL	CA-CB	-6.41	1.46	1.54
1	B	27	ALA	CA-CB	-6.41	1.42	1.53
1	C	875	MET	SD-CE	-6.41	1.63	1.79
1	F	700	ILE	CA-CB	-6.40	1.45	1.54
1	B	131	ILE	CA-CB	-6.40	1.46	1.54
1	D	158	ALA	CA-CB	-6.40	1.43	1.53
1	F	27	ALA	CA-CB	-6.40	1.42	1.53
1	D	390	MET	SD-CE	-6.40	1.63	1.79
1	E	1010	ALA	CA-CB	-6.39	1.43	1.53
1	B	390	MET	SD-CE	-6.39	1.63	1.79
1	C	132	ILE	CA-CB	-6.39	1.46	1.54
1	F	390	MET	SD-CE	-6.38	1.63	1.79
1	B	700	ILE	CA-CB	-6.38	1.45	1.54
1	D	27	ALA	CA-CB	-6.38	1.42	1.53
1	A	917	VAL	CA-CB	-6.37	1.46	1.53
1	C	917	VAL	CA-CB	-6.36	1.46	1.53
1	E	390	MET	SD-CE	-6.36	1.63	1.79
1	A	1010	ALA	CA-CB	-6.36	1.43	1.53
1	B	116	ILE	CA-CB	-6.36	1.45	1.54
1	D	116	ILE	CA-CB	-6.35	1.45	1.54
1	E	917	VAL	CA-CB	-6.34	1.46	1.53
1	E	334	ALA	CA-CB	-6.34	1.43	1.53
1	F	116	ILE	CA-CB	-6.34	1.45	1.54
1	A	390	MET	SD-CE	-6.33	1.63	1.79
1	C	1010	ALA	CA-CB	-6.33	1.43	1.53
1	D	468	MET	SD-CE	6.33	1.95	1.79
1	C	390	MET	SD-CE	-6.33	1.63	1.79
1	B	468	MET	SD-CE	6.32	1.95	1.79
1	F	468	MET	SD-CE	6.32	1.95	1.79
2	I	118	VAL	CA-CB	-6.32	1.46	1.54
2	K	118	VAL	CA-CB	-6.32	1.46	1.54
1	A	334	ALA	CA-CB	-6.30	1.43	1.53
2	H	118	VAL	CA-CB	-6.30	1.46	1.54
2	L	118	VAL	CA-CB	-6.30	1.46	1.54
2	G	118	VAL	CA-CB	-6.29	1.46	1.54
2	J	118	VAL	CA-CB	-6.29	1.46	1.54
1	A	1171	VAL	CA-CB	-6.27	1.47	1.54
1	C	334	ALA	CA-CB	-6.27	1.43	1.53
1	E	1021	ILE	CA-CB	-6.27	1.46	1.54
1	A	1151	ALA	CA-CB	-6.26	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	1171	VAL	CA-CB	-6.25	1.47	1.54
1	B	85	ALA	CA-CB	-6.24	1.43	1.53
1	E	801	ALA	CA-CB	-6.24	1.43	1.53
1	E	1151	ALA	CA-CB	-6.24	1.43	1.53
1	A	1021	ILE	CA-CB	-6.24	1.46	1.54
1	C	391	ILE	CA-CB	-6.24	1.46	1.55
1	C	1021	ILE	CA-CB	-6.24	1.46	1.54
1	C	1151	ALA	CA-CB	-6.23	1.43	1.53
1	C	801	ALA	CA-CB	-6.23	1.43	1.53
1	F	85	ALA	CA-CB	-6.23	1.43	1.53
1	A	801	ALA	CA-CB	-6.22	1.43	1.53
1	C	1188	ALA	CA-CB	-6.21	1.42	1.53
1	D	85	ALA	CA-CB	-6.21	1.43	1.53
1	E	391	ILE	CA-CB	-6.21	1.46	1.55
1	E	1171	VAL	CA-CB	-6.21	1.47	1.54
1	A	391	ILE	CA-CB	-6.21	1.46	1.55
1	E	267	ILE	CA-CB	-6.20	1.46	1.53
1	A	267	ILE	CA-CB	-6.18	1.46	1.53
1	E	1188	ALA	CA-CB	-6.18	1.42	1.53
1	C	267	ILE	CA-CB	-6.18	1.46	1.53
1	A	1188	ALA	CA-CB	-6.17	1.43	1.53
1	F	139	VAL	CA-CB	-6.14	1.46	1.54
1	B	139	VAL	CA-CB	-6.06	1.46	1.54
1	D	139	VAL	CA-CB	-6.05	1.46	1.54
1	E	1008	THR	CA-CB	-6.05	1.44	1.53
1	D	374	ILE	CA-CB	-6.03	1.46	1.54
1	E	1170	GLN	C-O	-6.03	1.16	1.24
1	C	117	ILE	CA-CB	-6.02	1.45	1.54
1	A	1008	THR	CA-CB	-6.01	1.44	1.53
1	F	374	ILE	CA-CB	-6.01	1.46	1.54
1	C	1008	THR	CA-CB	-6.00	1.44	1.53
1	A	1170	GLN	C-O	-6.00	1.16	1.24
1	F	1009	ILE	CA-CB	-5.99	1.46	1.54
1	B	374	ILE	CA-CB	-5.99	1.46	1.54
1	D	1009	ILE	CA-CB	-5.99	1.46	1.54
1	A	117	ILE	CA-CB	-5.98	1.45	1.54
1	C	1170	GLN	C-O	-5.97	1.16	1.24
1	D	604	VAL	CA-CB	-5.97	1.47	1.54
1	C	991	ASN	C-O	-5.97	1.19	1.24
1	F	604	VAL	CA-CB	-5.97	1.47	1.54
1	E	117	ILE	CA-CB	-5.97	1.45	1.54
1	B	1009	ILE	CA-CB	-5.97	1.46	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	604	VAL	CA-CB	-5.96	1.47	1.54
1	D	252	GLU	N-CA	-5.93	1.39	1.46
1	A	991	ASN	C-O	-5.93	1.19	1.24
1	D	1080	VAL	CA-CB	-5.92	1.47	1.54
1	E	1055	VAL	CA-CB	-5.92	1.46	1.54
1	B	252	GLU	N-CA	-5.91	1.39	1.46
1	D	1016	ALA	CA-CB	-5.91	1.44	1.53
1	A	1055	VAL	CA-CB	-5.91	1.46	1.54
1	F	1016	ALA	CA-CB	-5.90	1.44	1.53
1	B	1080	VAL	CA-CB	-5.90	1.47	1.54
1	B	1016	ALA	CA-CB	-5.89	1.44	1.53
1	F	252	GLU	N-CA	-5.88	1.39	1.46
1	C	1055	VAL	CA-CB	-5.88	1.46	1.54
1	D	693	MET	SD-CE	-5.88	1.64	1.79
1	D	663	ALA	CA-CB	-5.87	1.43	1.53
1	B	663	ALA	CA-CB	-5.86	1.43	1.53
1	F	663	ALA	CA-CB	-5.86	1.43	1.53
1	F	1080	VAL	CA-CB	-5.86	1.47	1.54
1	E	991	ASN	C-O	-5.86	1.19	1.24
1	B	693	MET	SD-CE	-5.86	1.65	1.79
1	F	693	MET	SD-CE	-5.84	1.65	1.79
1	B	671	ALA	CA-C	-5.83	1.45	1.52
1	C	1011	ALA	CA-CB	-5.83	1.44	1.53
1	A	700	ILE	CA-CB	-5.81	1.46	1.54
1	F	671	ALA	CA-C	-5.81	1.45	1.52
1	F	1213	ALA	CA-CB	-5.81	1.43	1.53
1	E	1011	ALA	CA-CB	-5.80	1.44	1.53
1	C	950	THR	CA-CB	-5.80	1.43	1.53
1	A	1011	ALA	CA-CB	-5.80	1.44	1.53
1	D	671	ALA	CA-C	-5.80	1.45	1.52
1	F	155	ILE	CA-C	-5.80	1.45	1.52
1	B	1213	ALA	CA-CB	-5.80	1.43	1.53
1	C	700	ILE	CA-CB	-5.79	1.46	1.54
1	D	1213	ALA	CA-CB	-5.79	1.43	1.53
1	E	700	ILE	CA-CB	-5.79	1.46	1.54
1	A	950	THR	CA-CB	-5.78	1.43	1.53
1	D	155	ILE	CA-C	-5.78	1.45	1.52
1	A	1213	ALA	CA-CB	-5.77	1.44	1.53
1	E	1213	ALA	CA-CB	-5.76	1.44	1.53
1	B	155	ILE	CA-C	-5.76	1.45	1.52
1	C	1213	ALA	CA-CB	-5.76	1.44	1.53
1	E	950	THR	CA-CB	-5.75	1.43	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	B	1387	MET	SD-CE	-5.74	1.65	1.79
1	D	1387	MET	SD-CE	-5.74	1.65	1.79
1	F	910	VAL	CA-CB	-5.74	1.46	1.54
1	B	391	ILE	CA-C	-5.73	1.45	1.52
1	F	1387	MET	SD-CE	-5.73	1.65	1.79
1	D	391	ILE	CA-C	-5.72	1.45	1.52
1	F	391	ILE	CA-C	-5.72	1.45	1.52
1	F	567	ALA	CA-CB	-5.70	1.44	1.53
1	B	927	GLU	C-O	-5.70	1.16	1.23
1	F	927	GLU	C-O	-5.69	1.16	1.23
1	B	567	ALA	CA-CB	-5.69	1.44	1.53
1	B	910	VAL	CA-CB	-5.69	1.47	1.54
1	D	567	ALA	CA-CB	-5.69	1.44	1.53
1	D	910	VAL	CA-CB	-5.69	1.47	1.54
1	D	927	GLU	C-O	-5.69	1.16	1.23
1	D	353	MET	SD-CE	-5.68	1.65	1.79
1	F	353	MET	SD-CE	-5.68	1.65	1.79
1	D	757	LYS	C-O	-5.67	1.17	1.24
1	F	757	LYS	C-O	-5.67	1.17	1.24
1	B	757	LYS	C-O	-5.67	1.17	1.24
1	B	906	ALA	CA-CB	-5.66	1.43	1.53
1	D	1237	ASN	C-O	-5.66	1.16	1.24
1	B	353	MET	SD-CE	-5.66	1.65	1.79
1	D	906	ALA	CA-CB	-5.66	1.43	1.53
1	F	279	THR	CA-CB	-5.66	1.44	1.53
1	F	906	ALA	CA-CB	-5.66	1.43	1.53
1	D	1018	ALA	C-O	-5.65	1.17	1.23
1	F	1237	ASN	C-O	-5.64	1.16	1.24
1	A	1062	ARG	CA-C	-5.64	1.45	1.52
1	B	1018	ALA	C-O	-5.64	1.17	1.23
1	B	279	THR	CA-CB	-5.63	1.44	1.53
1	E	1062	ARG	CA-C	-5.63	1.45	1.52
1	C	1062	ARG	CA-C	-5.63	1.45	1.52
1	F	92	ILE	CA-CB	-5.63	1.47	1.54
1	B	1237	ASN	C-O	-5.63	1.16	1.24
1	D	1162	ILE	CA-CB	-5.62	1.48	1.54
1	F	1018	ALA	C-O	-5.62	1.17	1.23
1	B	1162	ILE	CA-CB	-5.60	1.48	1.54
1	F	99	ALA	CA-CB	-5.60	1.43	1.53
1	F	1162	ILE	CA-CB	-5.60	1.48	1.54
1	A	1219	ALA	CA-CB	-5.59	1.45	1.53
1	D	279	THR	CA-CB	-5.59	1.44	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	1219	ALA	CA-CB	-5.58	1.45	1.53
1	C	17	VAL	CA-CB	-5.58	1.47	1.54
1	C	1219	ALA	CA-CB	-5.58	1.45	1.53
1	D	99	ALA	CA-CB	-5.58	1.43	1.53
1	B	99	ALA	CA-CB	-5.58	1.43	1.53
1	E	754	ILE	CA-CB	-5.56	1.47	1.54
1	C	754	ILE	CA-CB	-5.55	1.47	1.54
1	A	754	ILE	CA-CB	-5.54	1.47	1.54
1	C	73	VAL	CA-CB	-5.54	1.47	1.54
1	E	843	VAL	CA-C	-5.54	1.47	1.53
1	A	17	VAL	CA-CB	-5.53	1.47	1.54
1	E	73	VAL	CA-CB	-5.53	1.47	1.54
1	A	73	VAL	CA-CB	-5.53	1.47	1.54
1	C	1071	GLY	C-O	-5.52	1.16	1.23
1	A	843	VAL	CA-C	-5.50	1.47	1.53
1	E	1168	LEU	C-O	-5.50	1.17	1.24
1	C	843	VAL	CA-C	-5.49	1.47	1.53
1	E	17	VAL	CA-CB	-5.49	1.47	1.54
1	A	1071	GLY	C-O	-5.48	1.16	1.23
1	F	22	ILE	CA-CB	-5.48	1.48	1.54
1	C	476	ILE	CA-CB	-5.48	1.46	1.55
1	A	476	ILE	CA-CB	-5.47	1.46	1.55
1	A	1168	LEU	C-O	-5.47	1.17	1.24
1	D	22	ILE	CA-CB	-5.47	1.48	1.54
1	E	1071	GLY	C-O	-5.47	1.16	1.23
1	E	116	ILE	CA-CB	-5.46	1.47	1.54
1	B	22	ILE	CA-CB	-5.46	1.48	1.54
1	D	1059	ASN	CA-C	-5.46	1.45	1.52
1	F	1059	ASN	CA-C	-5.46	1.45	1.52
1	E	476	ILE	CA-CB	-5.46	1.46	1.55
1	C	1168	LEU	C-O	-5.46	1.17	1.24
1	E	299	VAL	CA-CB	-5.45	1.47	1.54
1	A	116	ILE	CA-CB	-5.44	1.47	1.54
1	C	116	ILE	CA-CB	-5.41	1.47	1.54
1	B	1059	ASN	CA-C	-5.41	1.46	1.52
1	A	22	ILE	CA-CB	-5.40	1.47	1.54
1	A	573	PHE	C-O	-5.40	1.18	1.24
1	C	505	GLN	CA-C	-5.40	1.49	1.52
1	A	299	VAL	CA-CB	-5.40	1.47	1.54
1	C	573	PHE	C-O	-5.39	1.18	1.24
1	C	299	VAL	CA-CB	-5.39	1.47	1.54
1	E	573	PHE	C-O	-5.39	1.18	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	73	VAL	CA-CB	-5.38	1.47	1.54
1	C	22	ILE	CA-CB	-5.37	1.47	1.54
1	E	22	ILE	CA-CB	-5.37	1.47	1.54
1	C	324	MET	SD-CE	5.36	1.93	1.79
1	E	1357	VAL	CA-CB	-5.36	1.50	1.55
1	D	1170	GLN	CA-C	-5.36	1.46	1.52
1	E	131	ILE	CA-CB	-5.36	1.47	1.54
1	B	73	VAL	CA-CB	-5.35	1.47	1.54
1	A	468	MET	SD-CE	5.35	1.93	1.79
1	A	505	GLN	CA-C	-5.35	1.49	1.52
1	C	468	MET	SD-CE	5.35	1.93	1.79
1	C	1357	VAL	CA-CB	-5.35	1.50	1.55
1	A	1357	VAL	CA-CB	-5.34	1.50	1.55
1	C	1016	ALA	CA-CB	-5.34	1.45	1.53
1	E	324	MET	SD-CE	5.34	1.93	1.79
1	A	324	MET	SD-CE	5.34	1.92	1.79
1	E	468	MET	SD-CE	5.34	1.93	1.79
1	C	675	ILE	CA-CB	-5.34	1.48	1.54
1	E	505	GLN	CA-C	-5.34	1.49	1.52
1	E	1016	ALA	CA-CB	-5.33	1.45	1.53
1	B	1170	GLN	CA-C	-5.33	1.46	1.52
1	F	1170	GLN	CA-C	-5.33	1.46	1.52
1	B	1022	LEU	CA-C	-5.33	1.46	1.52
1	F	1022	LEU	CA-C	-5.32	1.46	1.52
1	F	1428	ILE	CA-CB	-5.32	1.47	1.54
1	D	73	VAL	CA-CB	-5.32	1.47	1.54
1	D	1022	LEU	CA-C	-5.31	1.46	1.52
1	A	1016	ALA	CA-CB	-5.31	1.45	1.53
1	B	1428	ILE	CA-CB	-5.31	1.47	1.54
1	C	150	ILE	CA-CB	-5.31	1.47	1.54
1	A	131	ILE	CA-CB	-5.30	1.47	1.54
1	B	92	ILE	CA-CB	-5.30	1.47	1.54
1	E	325	GLU	CA-C	-5.30	1.45	1.52
1	D	1428	ILE	CA-CB	-5.30	1.47	1.54
1	A	325	GLU	CA-C	-5.30	1.45	1.52
1	B	794	VAL	CA-CB	-5.29	1.48	1.54
1	B	1451	VAL	CA-CB	-5.29	1.48	1.54
1	D	1451	VAL	CA-CB	-5.29	1.48	1.54
1	E	675	ILE	CA-CB	-5.29	1.48	1.54
1	A	675	ILE	CA-CB	-5.29	1.48	1.54
1	C	325	GLU	CA-C	-5.29	1.45	1.52
1	F	1451	VAL	CA-CB	-5.28	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	F	794	VAL	CA-CB	-5.28	1.48	1.54
1	C	799	GLN	C-O	5.28	1.30	1.24
1	E	13	PRO	CA-C	-5.28	1.46	1.52
1	A	799	GLN	C-O	5.27	1.30	1.24
1	A	150	ILE	CA-CB	-5.26	1.47	1.54
1	C	131	ILE	CA-CB	-5.26	1.47	1.54
1	D	92	ILE	CA-CB	-5.26	1.47	1.54
1	D	794	VAL	CA-CB	-5.25	1.48	1.54
1	F	668	ALA	CA-CB	-5.25	1.46	1.52
1	D	355	TYR	C-O	-5.25	1.17	1.23
1	F	355	TYR	C-O	-5.24	1.17	1.23
1	A	13	PRO	CA-C	-5.24	1.46	1.52
1	E	150	ILE	CA-CB	-5.24	1.47	1.54
1	B	355	TYR	C-O	-5.23	1.17	1.23
1	B	668	ALA	CA-CB	-5.23	1.46	1.52
1	F	170	CYS	C-O	-5.22	1.17	1.24
1	D	159	VAL	CA-CB	-5.22	1.48	1.54
1	C	1038	ILE	CA-CB	-5.22	1.48	1.54
1	B	170	CYS	C-O	-5.22	1.17	1.24
1	C	13	PRO	CA-C	-5.22	1.46	1.52
1	A	948	LYS	CA-C	-5.21	1.45	1.52
1	D	1039	LYS	CA-C	-5.21	1.45	1.52
1	D	1104	MET	SD-CE	-5.21	1.66	1.79
1	B	1039	LYS	CA-C	-5.21	1.45	1.52
1	F	176	SER	CA-C	-5.21	1.46	1.52
1	F	1039	LYS	CA-C	-5.21	1.45	1.52
1	B	159	VAL	CA-CB	-5.21	1.48	1.54
1	C	948	LYS	CA-C	-5.21	1.45	1.52
1	D	176	SER	CA-C	-5.20	1.46	1.52
1	F	159	VAL	CA-CB	-5.20	1.48	1.54
1	E	799	GLN	C-O	5.20	1.30	1.24
1	B	1104	MET	SD-CE	-5.20	1.66	1.79
1	B	176	SER	CA-C	-5.20	1.46	1.52
1	A	1038	ILE	CA-CB	-5.20	1.48	1.54
1	E	1038	ILE	CA-CB	-5.19	1.48	1.54
1	D	170	CYS	C-O	-5.19	1.17	1.24
1	D	795	ILE	CA-CB	-5.19	1.48	1.54
1	C	1065	VAL	N-CA	-5.19	1.40	1.46
1	E	948	LYS	CA-C	-5.19	1.45	1.52
1	B	795	ILE	CA-CB	-5.19	1.48	1.54
1	E	660	GLY	C-O	-5.18	1.17	1.23
1	F	1104	MET	SD-CE	-5.18	1.66	1.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1065	VAL	N-CA	-5.18	1.40	1.46
1	E	1428	ILE	CA-CB	-5.18	1.47	1.54
1	C	660	GLY	C-O	-5.18	1.17	1.23
1	E	1065	VAL	N-CA	-5.17	1.40	1.46
1	A	660	GLY	C-O	-5.17	1.17	1.23
1	F	795	ILE	CA-CB	-5.17	1.48	1.54
1	F	371	MET	SD-CE	-5.16	1.66	1.79
1	F	1222	LEU	C-O	-5.15	1.18	1.24
1	D	668	ALA	CA-CB	-5.15	1.46	1.52
1	A	1428	ILE	CA-CB	-5.14	1.47	1.54
1	D	371	MET	SD-CE	-5.14	1.66	1.79
1	F	1322	ILE	CA-CB	-5.14	1.47	1.54
1	B	371	MET	SD-CE	-5.14	1.66	1.79
1	C	1428	ILE	CA-CB	-5.14	1.47	1.54
1	F	507	THR	CA-CB	-5.14	1.45	1.53
1	C	1457	VAL	CA-CB	-5.13	1.48	1.54
1	E	1417	VAL	CA-CB	-5.13	1.47	1.54
1	B	1222	LEU	C-O	-5.13	1.18	1.24
1	A	1457	VAL	CA-CB	-5.13	1.48	1.54
1	C	383	GLY	C-O	5.12	1.28	1.24
1	E	1457	VAL	CA-CB	-5.12	1.48	1.54
1	D	507	THR	CA-CB	-5.12	1.45	1.53
1	B	1322	ILE	CA-CB	-5.12	1.47	1.54
1	F	754	ILE	CA-CB	-5.12	1.47	1.54
1	D	1222	LEU	C-O	-5.12	1.18	1.24
1	A	1417	VAL	CA-CB	-5.11	1.47	1.54
1	B	507	THR	CA-CB	-5.11	1.45	1.53
1	D	1322	ILE	CA-CB	-5.11	1.47	1.54
1	C	1292	ALA	CA-CB	-5.11	1.45	1.54
1	D	754	ILE	CA-CB	-5.11	1.47	1.54
1	D	837	PRO	CA-C	-5.10	1.46	1.52
1	C	374	ILE	CA-CB	-5.09	1.47	1.54
1	C	1417	VAL	CA-CB	-5.09	1.47	1.54
1	B	837	PRO	CA-C	-5.09	1.46	1.52
1	F	991	ASN	CA-C	-5.09	1.47	1.52
1	E	1292	ALA	CA-CB	-5.09	1.45	1.54
1	F	837	PRO	CA-C	-5.08	1.46	1.52
1	A	1292	ALA	CA-CB	-5.08	1.45	1.54
1	F	1095	ALA	CA-CB	-5.08	1.45	1.53
1	D	1095	ALA	CA-CB	-5.08	1.45	1.53
1	E	374	ILE	CA-CB	-5.08	1.47	1.54
1	D	991	ASN	CA-C	-5.08	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	383	GLY	C-O	5.08	1.28	1.24
1	D	1035	GLN	CA-C	-5.08	1.45	1.52
1	E	1126	GLN	CA-C	-5.08	1.46	1.52
1	B	991	ASN	CA-C	-5.07	1.47	1.52
1	D	665	THR	CA-CB	-5.07	1.45	1.53
1	B	665	THR	CA-CB	-5.07	1.45	1.53
1	B	754	ILE	CA-CB	-5.07	1.47	1.54
1	B	1095	ALA	CA-CB	-5.07	1.45	1.53
1	B	1035	GLN	CA-C	-5.06	1.45	1.52
1	A	5	PHE	CA-C	-5.06	1.46	1.52
1	F	875	MET	SD-CE	-5.06	1.67	1.79
1	F	1035	GLN	CA-C	-5.05	1.45	1.52
1	C	5	PHE	CA-C	-5.05	1.46	1.52
1	F	733	ALA	CA-CB	-5.05	1.45	1.53
1	B	875	MET	SD-CE	-5.05	1.67	1.79
1	D	875	MET	SD-CE	-5.05	1.67	1.79
1	A	374	ILE	CA-CB	-5.05	1.48	1.54
1	A	1126	GLN	CA-C	-5.05	1.46	1.52
1	F	665	THR	CA-CB	-5.05	1.45	1.53
1	E	511	ILE	CA-C	-5.04	1.48	1.52
1	D	733	ALA	CA-CB	-5.04	1.45	1.53
1	B	733	ALA	CA-CB	-5.04	1.45	1.53
1	A	291	ALA	CA-CB	-5.03	1.47	1.53
1	E	5	PHE	CA-C	-5.03	1.46	1.52
1	E	383	GLY	C-O	5.03	1.28	1.24
1	C	85	ALA	CA-CB	-5.03	1.45	1.53
1	A	511	ILE	CA-C	-5.03	1.48	1.52
1	C	1126	GLN	CA-C	-5.03	1.46	1.52
1	B	913	GLY	CA-C	-5.02	1.47	1.51
1	D	230	HIS	CA-C	-5.02	1.46	1.52
1	E	1039	LYS	CA-C	-5.02	1.46	1.52
1	A	85	ALA	CA-CB	-5.01	1.45	1.53
1	B	246	ALA	CA-CB	-5.01	1.45	1.53
1	F	246	ALA	CA-CB	-5.01	1.45	1.53
1	B	230	HIS	CA-C	-5.00	1.46	1.52
1	C	511	ILE	CA-C	-5.00	1.48	1.52
1	D	246	ALA	CA-CB	-5.00	1.45	1.53
1	D	1353	ALA	CA-CB	-5.00	1.45	1.53
1	E	85	ALA	CA-CB	-5.00	1.45	1.53

All (3663) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	45	ASN	CB-CG-OD1	-39.59	41.63	120.80
2	L	45	ASN	CB-CG-OD1	-39.59	41.63	120.80
2	G	45	ASN	CB-CG-OD1	-39.58	41.65	120.80
2	J	45	ASN	CB-CG-OD1	-39.58	41.65	120.80
2	I	45	ASN	CB-CG-OD1	-39.55	41.70	120.80
2	K	45	ASN	CB-CG-OD1	-39.55	41.70	120.80
1	B	888	GLY	N-CA-C	-18.19	83.96	110.88
1	D	888	GLY	N-CA-C	-18.19	83.96	110.88
1	F	888	GLY	N-CA-C	-18.18	83.97	110.88
2	H	247	ASP	N-CA-C	16.74	128.98	111.07
2	L	247	ASP	N-CA-C	16.74	128.98	111.07
2	I	247	ASP	N-CA-C	16.73	128.97	111.07
2	K	247	ASP	N-CA-C	16.73	128.97	111.07
2	G	247	ASP	N-CA-C	16.73	128.97	111.07
2	J	247	ASP	N-CA-C	16.73	128.97	111.07
2	H	246	ARG	CA-C-N	16.70	142.16	120.44
2	H	246	ARG	C-N-CA	16.70	142.16	120.44
2	L	246	ARG	CA-C-N	16.70	142.16	120.44
2	L	246	ARG	C-N-CA	16.70	142.16	120.44
2	I	246	ARG	CA-C-N	16.69	142.14	120.44
2	I	246	ARG	C-N-CA	16.69	142.14	120.44
2	K	246	ARG	CA-C-N	16.69	142.14	120.44
2	K	246	ARG	C-N-CA	16.69	142.14	120.44
2	G	246	ARG	CA-C-N	16.69	142.14	120.44
2	G	246	ARG	C-N-CA	16.69	142.14	120.44
2	J	246	ARG	CA-C-N	16.69	142.14	120.44
2	J	246	ARG	C-N-CA	16.69	142.14	120.44
1	F	671	ALA	N-CA-C	-15.85	96.56	114.62
1	D	671	ALA	N-CA-C	-15.83	96.57	114.62
1	B	671	ALA	N-CA-C	-15.83	96.58	114.62
2	I	45	ASN	OD1-CG-ND2	15.82	138.42	122.60
2	K	45	ASN	OD1-CG-ND2	15.82	138.42	122.60
2	G	45	ASN	OD1-CG-ND2	15.78	138.38	122.60
2	J	45	ASN	OD1-CG-ND2	15.78	138.38	122.60
2	H	45	ASN	OD1-CG-ND2	15.75	138.35	122.60
2	L	45	ASN	OD1-CG-ND2	15.75	138.35	122.60
1	A	672	GLN	N-CA-C	-15.15	94.85	111.36
1	C	672	GLN	N-CA-C	-15.15	94.85	111.36
1	E	672	GLN	N-CA-C	-15.13	94.87	111.36
1	D	337	ASP	N-CA-C	-14.56	88.64	109.31
1	B	337	ASP	N-CA-C	-14.55	88.65	109.31
1	F	337	ASP	N-CA-C	-14.55	88.66	109.31
1	A	1171	VAL	CA-C-N	-14.32	100.90	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1171	VAL	C-N-CA	-14.32	100.90	122.09
1	E	1171	VAL	CA-C-N	-14.31	100.91	122.09
1	E	1171	VAL	C-N-CA	-14.31	100.91	122.09
1	C	1171	VAL	CA-C-N	-14.31	100.92	122.09
1	C	1171	VAL	C-N-CA	-14.31	100.92	122.09
2	H	50	CYS	N-CA-CB	-14.17	89.77	110.17
2	L	50	CYS	N-CA-CB	-14.17	89.77	110.17
2	G	50	CYS	N-CA-CB	-14.16	89.78	110.17
2	J	50	CYS	N-CA-CB	-14.16	89.78	110.17
2	I	50	CYS	N-CA-CB	-14.15	89.79	110.17
2	K	50	CYS	N-CA-CB	-14.15	89.79	110.17
1	E	505	GLN	CA-C-N	-14.11	104.78	121.71
1	E	505	GLN	C-N-CA	-14.11	104.78	121.71
1	A	505	GLN	CA-C-N	-14.10	104.79	121.71
1	A	505	GLN	C-N-CA	-14.10	104.79	121.71
1	C	505	GLN	CA-C-N	-14.09	104.80	121.71
1	C	505	GLN	C-N-CA	-14.09	104.80	121.71
1	B	915	PHE	CA-C-O	-13.80	105.89	121.07
1	D	915	PHE	CA-C-O	-13.79	105.90	121.07
1	F	915	PHE	CA-C-O	-13.76	105.93	121.07
2	H	216	PRO	N-CA-C	13.75	131.72	113.84
2	L	216	PRO	N-CA-C	13.75	131.72	113.84
2	G	216	PRO	N-CA-C	13.74	131.70	113.84
2	J	216	PRO	N-CA-C	13.74	131.70	113.84
2	I	216	PRO	N-CA-C	13.71	131.67	113.84
2	K	216	PRO	N-CA-C	13.71	131.67	113.84
1	C	681	ARG	N-CA-C	-13.55	92.86	111.56
1	A	681	ARG	N-CA-C	-13.55	92.87	111.56
1	E	681	ARG	N-CA-C	-13.54	92.88	111.56
1	B	607	THR	N-CA-C	13.29	129.26	109.07
1	D	607	THR	N-CA-C	13.28	129.26	109.07
1	F	607	THR	N-CA-C	13.28	129.26	109.07
2	H	45	ASN	CB-CG-ND2	-13.12	96.73	116.40
2	I	45	ASN	CB-CG-ND2	-13.11	96.73	116.40
2	K	45	ASN	CB-CG-ND2	-13.11	96.73	116.40
2	L	45	ASN	CB-CG-ND2	-13.12	96.73	116.40
2	G	45	ASN	CB-CG-ND2	-13.11	96.73	116.40
2	J	45	ASN	CB-CG-ND2	-13.11	96.73	116.40
1	B	672	GLN	N-CA-C	-12.80	97.40	111.36
1	F	672	GLN	N-CA-C	-12.80	97.41	111.36
1	D	672	GLN	N-CA-C	-12.77	97.44	111.36
1	D	1390	GLY	N-CA-C	-12.59	92.41	111.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1390	GLY	N-CA-C	-12.59	92.41	111.42
2	I	333	GLU	CB-CG-CD	-12.59	91.20	112.60
2	K	333	GLU	CB-CG-CD	-12.59	91.20	112.60
2	H	333	GLU	CB-CG-CD	-12.58	91.21	112.60
2	L	333	GLU	CB-CG-CD	-12.58	91.21	112.60
1	F	1390	GLY	N-CA-C	-12.58	92.43	111.42
2	G	333	GLU	CB-CG-CD	-12.57	91.23	112.60
2	J	333	GLU	CB-CG-CD	-12.57	91.23	112.60
1	D	505	GLN	CA-C-N	-12.39	107.84	121.84
1	D	505	GLN	C-N-CA	-12.39	107.84	121.84
1	B	505	GLN	CA-C-N	-12.38	107.85	121.84
1	B	505	GLN	C-N-CA	-12.38	107.85	121.84
1	F	505	GLN	CA-C-N	-12.38	107.86	121.84
1	F	505	GLN	C-N-CA	-12.38	107.86	121.84
1	B	915	PHE	CA-CB-CG	-12.26	101.54	113.80
1	F	915	PHE	CA-CB-CG	-12.26	101.54	113.80
1	B	940	GLU	N-CA-C	12.25	136.90	110.80
1	D	915	PHE	CA-CB-CG	-12.24	101.56	113.80
1	D	940	GLU	N-CA-C	12.24	136.87	110.80
1	F	940	GLU	N-CA-C	12.24	136.87	110.80
1	C	106	GLY	N-CA-C	11.80	128.69	112.17
1	A	106	GLY	N-CA-C	11.80	128.69	112.17
1	E	106	GLY	N-CA-C	11.80	128.69	112.17
1	A	940	GLU	N-CA-C	11.71	135.74	110.80
1	E	940	GLU	N-CA-C	11.70	135.73	110.80
1	C	940	GLU	N-CA-C	11.70	135.72	110.80
2	G	464	ILE	N-CA-C	-11.47	99.13	110.72
2	J	464	ILE	N-CA-C	-11.47	99.13	110.72
2	H	464	ILE	N-CA-C	-11.47	99.14	110.72
2	L	464	ILE	N-CA-C	-11.47	99.14	110.72
2	I	464	ILE	N-CA-C	-11.46	99.15	110.72
2	K	464	ILE	N-CA-C	-11.46	99.15	110.72
2	H	50	CYS	CA-CB-SG	11.14	140.03	114.40
2	I	50	CYS	CA-CB-SG	11.14	140.03	114.40
2	K	50	CYS	CA-CB-SG	11.14	140.03	114.40
2	L	50	CYS	CA-CB-SG	11.14	140.03	114.40
2	G	50	CYS	CA-CB-SG	11.14	140.02	114.40
2	J	50	CYS	CA-CB-SG	11.14	140.02	114.40
1	C	575	VAL	N-CA-C	-11.02	101.94	112.96
1	A	575	VAL	N-CA-C	-11.01	101.95	112.96
1	E	575	VAL	N-CA-C	-11.00	101.96	112.96
1	A	785	GLY	N-CA-C	10.96	125.75	112.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	785	GLY	N-CA-C	10.95	125.74	112.49
1	E	785	GLY	N-CA-C	10.95	125.74	112.49
1	E	838	VAL	N-CA-CB	-10.89	104.32	111.83
1	A	838	VAL	N-CA-CB	-10.85	104.35	111.83
1	C	838	VAL	N-CA-CB	-10.80	104.38	111.83
1	E	337	ASP	N-CA-C	-10.63	93.38	109.86
1	A	337	ASP	N-CA-C	-10.61	93.41	109.86
1	C	337	ASP	N-CA-C	-10.59	93.45	109.86
1	A	948	LYS	N-CA-C	-10.59	98.55	114.64
1	C	948	LYS	N-CA-C	-10.58	98.56	114.64
1	E	948	LYS	N-CA-C	-10.58	98.56	114.64
1	B	767	ASN	N-CA-C	-10.52	100.68	112.57
1	D	767	ASN	N-CA-C	-10.52	100.68	112.57
1	F	767	ASN	N-CA-C	-10.52	100.69	112.57
1	A	843	VAL	CB-CA-C	-10.50	100.04	111.59
1	C	843	VAL	CB-CA-C	-10.50	100.04	111.59
1	E	843	VAL	CB-CA-C	-10.50	100.05	111.59
2	H	128	ASN	CA-CB-CG	-10.47	102.13	112.60
2	L	128	ASN	CA-CB-CG	-10.47	102.13	112.60
1	C	107	TRP	N-CA-C	10.47	124.14	110.43
2	I	128	ASN	CA-CB-CG	-10.47	102.13	112.60
2	K	128	ASN	CA-CB-CG	-10.47	102.13	112.60
1	E	107	TRP	N-CA-C	10.46	124.13	110.43
1	A	107	TRP	N-CA-C	10.45	124.12	110.43
2	G	128	ASN	CA-CB-CG	-10.45	102.15	112.60
2	J	128	ASN	CA-CB-CG	-10.45	102.15	112.60
1	E	262	ASP	N-CA-C	-10.23	100.21	112.89
1	F	106	GLY	N-CA-C	10.22	122.41	112.08
1	C	262	ASP	N-CA-C	-10.22	100.22	112.89
1	A	262	ASP	N-CA-C	-10.22	100.22	112.89
1	B	106	GLY	N-CA-C	10.21	122.40	112.08
1	D	106	GLY	N-CA-C	10.21	122.39	112.08
1	B	726	GLU	N-CA-C	-10.03	93.32	108.46
1	D	726	GLU	N-CA-C	-10.02	93.33	108.46
1	F	726	GLU	N-CA-C	-10.01	93.35	108.46
1	C	963	VAL	CB-CA-C	-9.95	98.57	110.91
1	F	1113	CYS	CA-C-O	9.94	125.75	119.29
2	I	257	ASN	CA-CB-CG	-9.94	102.66	112.60
2	K	257	ASN	CA-CB-CG	-9.94	102.66	112.60
1	E	963	VAL	CB-CA-C	-9.94	98.59	110.91
1	A	963	VAL	CB-CA-C	-9.93	98.59	110.91
1	B	1113	CYS	CA-C-O	9.92	125.74	119.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	948	LYS	N-CA-C	-9.90	98.74	114.09
2	G	257	ASN	CA-CB-CG	-9.90	102.69	112.60
2	J	257	ASN	CA-CB-CG	-9.90	102.69	112.60
1	D	948	LYS	N-CA-C	-9.90	98.74	114.09
1	D	1113	CYS	CA-C-O	9.89	125.72	119.29
1	B	948	LYS	N-CA-C	-9.89	98.76	114.09
2	H	257	ASN	CA-CB-CG	-9.87	102.73	112.60
2	L	257	ASN	CA-CB-CG	-9.87	102.73	112.60
1	D	182	MET	CB-CA-C	-9.85	98.00	111.88
1	B	182	MET	CB-CA-C	-9.85	98.00	111.88
1	F	182	MET	CB-CA-C	-9.84	98.00	111.88
2	H	139	PRO	N-CA-C	9.83	126.57	111.34
2	L	139	PRO	N-CA-C	9.83	126.57	111.34
2	I	139	PRO	N-CA-C	9.82	126.57	111.34
2	K	139	PRO	N-CA-C	9.82	126.57	111.34
1	F	963	VAL	CB-CA-C	-9.81	98.09	111.63
2	G	139	PRO	N-CA-C	9.80	126.53	111.34
2	J	139	PRO	N-CA-C	9.80	126.53	111.34
1	D	963	VAL	CB-CA-C	-9.80	98.11	111.63
1	B	963	VAL	CB-CA-C	-9.80	98.11	111.63
2	I	67	ASP	CA-CB-CG	-9.66	102.94	112.60
2	K	67	ASP	CA-CB-CG	-9.66	102.94	112.60
1	D	1465	ARG	CA-C-N	-9.64	108.88	123.14
1	D	1465	ARG	C-N-CA	-9.64	108.88	123.14
1	B	1465	ARG	CA-C-N	-9.62	108.90	123.14
1	B	1465	ARG	C-N-CA	-9.62	108.90	123.14
1	F	1465	ARG	CA-C-N	-9.62	108.90	123.14
1	F	1465	ARG	C-N-CA	-9.62	108.90	123.14
2	G	67	ASP	CA-CB-CG	-9.62	102.98	112.60
2	J	67	ASP	CA-CB-CG	-9.62	102.98	112.60
2	H	67	ASP	CA-CB-CG	-9.59	103.01	112.60
2	L	67	ASP	CA-CB-CG	-9.59	103.01	112.60
1	B	1355	VAL	CB-CA-C	-9.57	93.95	111.18
1	F	1355	VAL	CB-CA-C	-9.56	93.97	111.18
1	D	1355	VAL	CB-CA-C	-9.56	93.98	111.18
1	E	1355	VAL	CB-CA-C	-9.51	94.22	110.30
1	A	1355	VAL	CB-CA-C	-9.51	94.23	110.30
1	D	50	VAL	CB-CA-C	-9.50	99.75	110.68
1	B	50	VAL	CB-CA-C	-9.50	99.75	110.68
1	C	1355	VAL	CB-CA-C	-9.50	94.25	110.30
2	I	323	ASP	CA-CB-CG	9.49	122.09	112.60
2	K	323	ASP	CA-CB-CG	9.49	122.09	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	323	ASP	CA-CB-CG	9.49	122.09	112.60
2	J	323	ASP	CA-CB-CG	9.49	122.09	112.60
2	H	323	ASP	CA-CB-CG	9.49	122.09	112.60
2	L	323	ASP	CA-CB-CG	9.49	122.09	112.60
1	F	50	VAL	CB-CA-C	-9.48	99.78	110.68
1	E	342	VAL	N-CA-C	9.46	122.56	108.46
1	C	342	VAL	N-CA-C	9.45	122.54	108.46
1	A	342	VAL	N-CA-C	9.44	122.53	108.46
1	C	1465	ARG	CA-C-N	-9.42	109.76	122.85
1	C	1465	ARG	C-N-CA	-9.42	109.76	122.85
1	A	1465	ARG	CA-C-N	-9.41	109.77	122.85
1	A	1465	ARG	C-N-CA	-9.41	109.77	122.85
1	E	977	ILE	N-CA-C	9.39	120.20	110.62
1	E	1465	ARG	CA-C-N	-9.39	109.79	122.85
1	E	1465	ARG	C-N-CA	-9.39	109.79	122.85
1	B	782	ARG	N-CA-C	-9.38	95.14	109.96
1	B	938	PRO	CA-C-N	-9.38	103.03	121.41
1	B	938	PRO	C-N-CA	-9.38	103.03	121.41
1	D	938	PRO	CA-C-N	-9.38	103.03	121.41
1	D	938	PRO	C-N-CA	-9.38	103.03	121.41
1	F	782	ARG	N-CA-C	-9.37	95.15	109.96
1	F	938	PRO	CA-C-N	-9.37	103.05	121.41
1	F	938	PRO	C-N-CA	-9.37	103.05	121.41
1	D	782	ARG	N-CA-C	-9.36	95.17	109.96
1	C	977	ILE	N-CA-C	9.35	120.16	110.62
1	A	977	ILE	N-CA-C	9.34	120.15	110.62
1	C	283	VAL	CB-CA-C	-9.31	100.06	111.97
1	A	283	VAL	CB-CA-C	-9.29	100.07	111.97
1	E	283	VAL	CB-CA-C	-9.29	100.08	111.97
1	F	100	PHE	N-CA-C	-9.25	101.51	113.17
1	B	100	PHE	N-CA-C	-9.24	101.53	113.17
1	C	702	ASP	N-CA-C	-9.24	101.27	112.54
1	E	702	ASP	N-CA-C	-9.23	101.28	112.54
1	D	100	PHE	N-CA-C	-9.22	101.55	113.17
1	A	702	ASP	N-CA-C	-9.22	101.29	112.54
1	C	104	ILE	N-CA-C	9.16	120.80	106.88
1	A	64	HIS	N-CA-C	-9.15	96.77	109.95
1	C	738	HIS	N-CA-C	9.14	125.55	113.30
1	E	64	HIS	N-CA-C	-9.14	96.78	109.95
1	C	64	HIS	N-CA-C	-9.14	96.79	109.95
2	H	345	ILE	N-CA-C	-9.13	94.26	108.23
2	L	345	ILE	N-CA-C	-9.13	94.26	108.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	104	ILE	N-CA-C	9.13	120.76	106.88
2	I	345	ILE	N-CA-C	-9.13	94.27	108.23
2	K	345	ILE	N-CA-C	-9.13	94.27	108.23
1	D	849	ILE	N-CA-C	9.11	119.93	110.36
1	E	738	HIS	N-CA-C	9.11	125.51	113.30
1	A	738	HIS	N-CA-C	9.11	125.51	113.30
1	E	104	ILE	N-CA-C	9.11	120.73	106.88
2	G	345	ILE	N-CA-C	-9.11	94.30	108.23
2	J	345	ILE	N-CA-C	-9.11	94.30	108.23
1	B	849	ILE	N-CA-C	9.10	119.91	110.36
1	F	849	ILE	N-CA-C	9.07	119.88	110.36
1	B	952	MET	N-CA-C	-9.05	101.38	111.07
1	A	1409	SER	CA-C-N	-9.03	110.75	123.03
1	A	1409	SER	C-N-CA	-9.03	110.75	123.03
1	D	952	MET	N-CA-C	-9.03	101.41	111.07
1	F	952	MET	N-CA-C	-9.03	101.41	111.07
1	E	1409	SER	CA-C-N	-9.03	110.75	123.03
1	E	1409	SER	C-N-CA	-9.03	110.75	123.03
1	C	1409	SER	CA-C-N	-9.00	110.80	123.03
1	C	1409	SER	C-N-CA	-9.00	110.80	123.03
1	C	1207	VAL	N-CA-C	8.98	116.56	109.19
1	A	372	VAL	CB-CA-C	-8.98	96.57	111.29
1	A	925	CYS	N-CA-C	8.96	120.52	107.88
1	D	978	GLU	N-CA-C	-8.96	101.48	111.07
1	E	925	CYS	N-CA-C	8.96	120.52	107.88
1	B	978	GLU	N-CA-C	-8.96	101.48	111.07
1	E	372	VAL	CB-CA-C	-8.95	96.61	111.29
1	F	978	GLU	N-CA-C	-8.95	101.49	111.07
2	I	238	VAL	CA-C-N	8.95	137.95	122.56
2	I	238	VAL	C-N-CA	8.95	137.95	122.56
2	K	238	VAL	CA-C-N	8.95	137.95	122.56
2	K	238	VAL	C-N-CA	8.95	137.95	122.56
1	C	372	VAL	CB-CA-C	-8.95	96.62	111.29
1	C	925	CYS	N-CA-C	8.95	120.49	107.88
1	A	1207	VAL	N-CA-C	8.93	116.52	109.19
1	E	1207	VAL	N-CA-C	8.93	116.51	109.19
2	G	238	VAL	CA-C-N	8.93	137.91	122.56
2	G	238	VAL	C-N-CA	8.93	137.91	122.56
2	J	238	VAL	CA-C-N	8.93	137.91	122.56
2	J	238	VAL	C-N-CA	8.93	137.91	122.56
2	H	238	VAL	CA-C-N	8.91	137.88	122.56
2	H	238	VAL	C-N-CA	8.91	137.88	122.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	238	VAL	CA-C-N	8.91	137.88	122.56
2	L	238	VAL	C-N-CA	8.91	137.88	122.56
1	A	607	THR	N-CA-C	8.90	122.83	108.76
1	C	607	THR	N-CA-C	8.90	122.83	108.76
1	E	607	THR	N-CA-C	8.90	122.83	108.76
1	F	812	LYS	N-CA-C	-8.90	102.93	113.88
1	D	812	LYS	N-CA-C	-8.90	102.94	113.88
1	B	812	LYS	N-CA-C	-8.89	102.95	113.88
1	D	684	PHE	N-CA-C	-8.88	94.70	109.80
1	E	738	HIS	CA-C-N	-8.88	111.17	123.96
1	E	738	HIS	C-N-CA	-8.88	111.17	123.96
1	D	79	PRO	N-CA-C	-8.88	97.09	111.21
1	B	684	PHE	N-CA-C	-8.88	94.71	109.80
1	F	684	PHE	N-CA-C	-8.87	94.72	109.80
1	A	738	HIS	CA-C-N	-8.87	111.18	123.96
1	A	738	HIS	C-N-CA	-8.87	111.18	123.96
1	C	738	HIS	CA-C-N	-8.87	111.19	123.96
1	C	738	HIS	C-N-CA	-8.87	111.19	123.96
1	F	478	SER	N-CA-C	8.86	121.61	108.14
1	D	478	SER	N-CA-C	8.86	121.60	108.14
1	E	490	ASP	N-CA-CB	-8.86	97.33	110.53
1	B	79	PRO	N-CA-C	-8.85	97.13	111.21
1	F	79	PRO	N-CA-C	-8.85	97.13	111.21
1	B	478	SER	N-CA-C	8.84	121.58	108.14
1	A	490	ASP	N-CA-CB	-8.84	97.36	110.53
1	C	490	ASP	N-CA-CB	-8.82	97.38	110.53
1	F	783	LYS	N-CA-C	-8.80	99.56	110.65
1	D	783	LYS	N-CA-C	-8.78	99.59	110.65
1	B	783	LYS	N-CA-C	-8.77	99.60	110.65
1	C	100	PHE	N-CA-C	-8.72	102.56	113.02
1	A	100	PHE	N-CA-C	-8.71	102.56	113.02
1	E	100	PHE	N-CA-C	-8.71	102.56	113.02
1	D	968	PRO	N-CA-C	-8.70	100.09	110.70
1	F	968	PRO	N-CA-C	-8.70	100.09	110.70
1	B	968	PRO	N-CA-C	-8.68	100.11	110.70
2	H	464	ILE	CB-CA-C	-8.63	100.31	112.22
2	L	464	ILE	CB-CA-C	-8.63	100.31	112.22
2	G	464	ILE	CB-CA-C	-8.63	100.32	112.22
2	J	464	ILE	CB-CA-C	-8.63	100.32	112.22
1	F	459	GLU	N-CA-C	-8.62	100.90	111.33
2	I	464	ILE	CB-CA-C	-8.61	100.33	112.22
2	K	464	ILE	CB-CA-C	-8.61	100.33	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	459	GLU	N-CA-C	-8.60	100.92	111.33
2	I	50	CYS	CB-CA-C	8.60	125.36	109.54
2	K	50	CYS	CB-CA-C	8.60	125.36	109.54
1	F	107	TRP	N-CA-C	8.59	122.15	110.55
2	H	352	GLY	N-CA-C	-8.59	92.82	113.18
2	L	352	GLY	N-CA-C	-8.59	92.82	113.18
2	G	352	GLY	N-CA-C	-8.58	92.84	113.18
2	J	352	GLY	N-CA-C	-8.58	92.84	113.18
1	B	107	TRP	N-CA-C	8.58	122.13	110.55
1	D	459	GLU	N-CA-C	-8.58	100.95	111.33
2	H	420	TRP	N-CA-C	-8.58	101.81	113.30
2	L	420	TRP	N-CA-C	-8.58	101.81	113.30
2	I	352	GLY	N-CA-C	-8.57	92.86	113.18
2	K	352	GLY	N-CA-C	-8.57	92.86	113.18
2	G	50	CYS	CB-CA-C	8.57	125.31	109.54
2	J	50	CYS	CB-CA-C	8.57	125.31	109.54
2	I	420	TRP	N-CA-C	-8.57	101.82	113.30
2	K	420	TRP	N-CA-C	-8.57	101.82	113.30
2	G	420	TRP	N-CA-C	-8.57	101.82	113.30
2	J	420	TRP	N-CA-C	-8.57	101.82	113.30
2	H	50	CYS	CB-CA-C	8.56	125.29	109.54
2	L	50	CYS	CB-CA-C	8.56	125.29	109.54
1	D	107	TRP	N-CA-C	8.55	122.09	110.55
1	E	1075	THR	N-CA-C	8.55	122.15	109.24
1	E	1093	GLY	N-CA-C	8.54	117.98	110.21
2	G	475	PRO	N-CA-C	8.54	124.22	111.41
2	J	475	PRO	N-CA-C	8.54	124.22	111.41
2	G	92	GLU	CB-CA-C	-8.54	97.48	110.88
2	J	92	GLU	CB-CA-C	-8.54	97.48	110.88
2	H	92	GLU	CB-CA-C	-8.53	97.49	110.88
2	L	92	GLU	CB-CA-C	-8.53	97.49	110.88
1	A	1075	THR	N-CA-C	8.53	122.11	109.24
2	I	92	GLU	CB-CA-C	-8.53	97.49	110.88
2	K	92	GLU	CB-CA-C	-8.53	97.49	110.88
2	I	475	PRO	N-CA-C	8.53	124.20	111.41
2	K	475	PRO	N-CA-C	8.53	124.20	111.41
2	H	475	PRO	N-CA-C	8.52	124.19	111.41
2	L	475	PRO	N-CA-C	8.52	124.19	111.41
1	F	226	ARG	N-CA-C	8.51	120.56	111.28
1	C	1075	THR	N-CA-C	8.51	122.09	109.24
1	A	1093	GLY	N-CA-C	8.51	117.95	110.21
1	B	226	ARG	N-CA-C	8.50	120.54	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	226	ARG	N-CA-C	8.49	120.54	111.28
2	I	234	VAL	CB-CA-C	-8.48	100.91	112.02
2	K	234	VAL	CB-CA-C	-8.48	100.91	112.02
2	G	234	VAL	CB-CA-C	-8.47	100.92	112.02
2	J	234	VAL	CB-CA-C	-8.47	100.92	112.02
1	C	1093	GLY	N-CA-C	8.47	117.92	110.21
1	F	40	THR	N-CA-C	8.44	121.30	109.15
2	H	234	VAL	CB-CA-C	-8.44	100.96	112.02
2	L	234	VAL	CB-CA-C	-8.44	100.96	112.02
1	B	40	THR	N-CA-C	8.43	121.28	109.15
1	B	369	THR	CA-C-N	-8.41	104.93	121.41
1	B	369	THR	C-N-CA	-8.41	104.93	121.41
1	D	40	THR	N-CA-C	8.41	121.26	109.15
1	F	369	THR	CA-C-N	-8.40	104.94	121.41
1	F	369	THR	C-N-CA	-8.40	104.94	121.41
2	G	118	VAL	CA-CB-CG2	-8.40	96.11	110.40
2	J	118	VAL	CA-CB-CG2	-8.40	96.11	110.40
2	H	118	VAL	CA-CB-CG2	-8.40	96.12	110.40
2	I	118	VAL	CA-CB-CG2	-8.40	96.12	110.40
2	K	118	VAL	CA-CB-CG2	-8.40	96.12	110.40
2	L	118	VAL	CA-CB-CG2	-8.40	96.12	110.40
1	D	369	THR	CA-C-N	-8.40	104.95	121.41
1	D	369	THR	C-N-CA	-8.40	104.95	121.41
1	F	283	VAL	CB-CA-C	-8.38	100.83	112.14
1	B	283	VAL	CB-CA-C	-8.37	100.84	112.14
1	D	738	HIS	N-CA-C	8.36	123.61	113.41
1	D	283	VAL	CB-CA-C	-8.36	100.86	112.14
1	B	738	HIS	N-CA-C	8.35	123.59	113.41
2	H	454	ILE	N-CA-C	-8.34	102.30	110.72
2	L	454	ILE	N-CA-C	-8.34	102.30	110.72
1	F	743	VAL	CB-CA-C	-8.34	102.42	111.59
2	I	454	ILE	N-CA-C	-8.34	102.30	110.72
2	K	454	ILE	N-CA-C	-8.34	102.30	110.72
2	G	454	ILE	N-CA-C	-8.33	102.31	110.72
2	J	454	ILE	N-CA-C	-8.33	102.31	110.72
1	B	464	ILE	N-CA-CB	-8.32	104.81	111.64
1	A	1466	LEU	N-CA-C	8.32	123.22	107.75
1	B	743	VAL	CB-CA-C	-8.32	102.44	111.59
1	C	1466	LEU	N-CA-C	8.31	123.21	107.75
1	E	1466	LEU	N-CA-C	8.31	123.20	107.75
1	F	464	ILE	N-CA-CB	-8.31	104.83	111.64
1	F	738	HIS	N-CA-C	8.31	123.54	113.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	464	ILE	N-CA-CB	-8.29	104.84	111.64
1	B	1334	GLY	N-CA-C	-8.29	103.70	112.08
1	C	795	ILE	N-CA-C	8.29	119.08	110.62
1	E	795	ILE	N-CA-C	8.29	119.08	110.62
1	F	1334	GLY	N-CA-C	-8.29	103.71	112.08
1	D	368	GLU	N-CA-CB	8.29	123.20	110.60
1	D	743	VAL	CB-CA-C	-8.28	102.48	111.59
1	D	1334	GLY	N-CA-C	-8.28	103.72	112.08
2	H	328	PRO	N-CA-C	8.28	125.03	113.53
2	L	328	PRO	N-CA-C	8.28	125.03	113.53
2	G	328	PRO	N-CA-C	8.27	125.03	113.53
2	J	328	PRO	N-CA-C	8.27	125.03	113.53
2	I	328	PRO	N-CA-C	8.27	125.03	113.53
2	K	328	PRO	N-CA-C	8.27	125.03	113.53
2	H	88	ASN	N-CA-CB	8.27	125.10	110.80
2	L	88	ASN	N-CA-CB	8.27	125.10	110.80
1	A	795	ILE	N-CA-C	8.26	119.05	110.62
2	G	88	ASN	N-CA-CB	8.26	125.09	110.80
2	I	88	ASN	N-CA-CB	8.26	125.09	110.80
2	J	88	ASN	N-CA-CB	8.26	125.09	110.80
2	K	88	ASN	N-CA-CB	8.26	125.09	110.80
1	B	368	GLU	N-CA-CB	8.26	123.15	110.60
1	F	368	GLU	N-CA-CB	8.25	123.14	110.60
1	E	159	VAL	CB-CA-C	-8.22	101.28	112.04
1	A	906	ALA	N-CA-C	8.21	121.34	111.82
1	C	906	ALA	N-CA-C	8.21	121.34	111.82
1	E	906	ALA	N-CA-C	8.20	121.34	111.82
1	C	159	VAL	CB-CA-C	-8.20	101.30	112.04
1	A	159	VAL	CB-CA-C	-8.20	101.30	112.04
1	C	90	ARG	N-CA-C	8.19	121.13	111.71
1	A	90	ARG	N-CA-C	8.19	121.12	111.71
1	E	849	ILE	N-CA-C	8.18	118.28	110.42
1	C	849	ILE	N-CA-C	8.17	118.26	110.42
1	A	849	ILE	N-CA-C	8.16	118.26	110.42
1	E	90	ARG	N-CA-C	8.16	121.10	111.71
1	F	1379	VAL	CA-C-N	-8.14	113.91	122.30
1	F	1379	VAL	C-N-CA	-8.14	113.91	122.30
2	H	97	ILE	N-CA-C	8.13	123.82	112.35
2	L	97	ILE	N-CA-C	8.13	123.82	112.35
1	B	1379	VAL	CA-C-N	-8.11	113.94	122.30
1	B	1379	VAL	C-N-CA	-8.11	113.94	122.30
2	G	97	ILE	N-CA-C	8.11	123.78	112.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	97	ILE	N-CA-C	8.11	123.78	112.35
1	F	1063	HIS	N-CA-C	-8.11	100.94	113.02
1	C	259	HIS	N-CA-C	8.10	121.22	111.82
1	E	259	HIS	N-CA-C	8.10	121.22	111.82
1	D	1379	VAL	CA-C-N	-8.10	113.96	122.30
1	D	1379	VAL	C-N-CA	-8.10	113.96	122.30
1	B	1063	HIS	N-CA-C	-8.09	100.96	113.02
1	D	1063	HIS	N-CA-C	-8.09	100.96	113.02
1	A	259	HIS	N-CA-C	8.09	121.20	111.82
2	I	97	ILE	N-CA-C	8.08	123.75	112.35
2	K	97	ILE	N-CA-C	8.08	123.75	112.35
1	E	228	LEU	N-CA-C	8.03	122.57	109.72
1	D	474	GLU	N-CA-C	8.02	121.98	108.90
1	E	794	VAL	CB-CA-C	8.02	122.24	111.97
1	A	228	LEU	N-CA-C	8.02	122.55	109.72
1	F	832	ARG	N-CA-C	-8.02	97.70	110.14
1	B	474	GLU	N-CA-C	8.01	121.96	108.90
1	B	832	ARG	N-CA-C	-8.01	97.72	110.14
1	D	832	ARG	N-CA-C	-8.01	97.72	110.14
1	F	474	GLU	N-CA-C	8.01	121.95	108.90
1	C	228	LEU	N-CA-C	8.01	122.53	109.72
1	C	36	ALA	N-CA-C	-8.00	102.78	112.54
1	A	641	SER	N-CA-C	-8.00	97.29	110.17
1	A	1350	ASN	CA-C-N	-8.00	111.25	123.17
1	A	1350	ASN	C-N-CA	-8.00	111.25	123.17
1	C	794	VAL	CB-CA-C	8.00	122.21	111.97
1	C	1350	ASN	CA-C-N	-8.00	111.25	123.17
1	C	1350	ASN	C-N-CA	-8.00	111.25	123.17
1	E	36	ALA	N-CA-C	-8.00	102.78	112.54
1	A	794	VAL	CB-CA-C	8.00	122.20	111.97
1	C	641	SER	N-CA-C	-7.99	97.30	110.17
1	E	1350	ASN	CA-C-N	-7.99	111.26	123.17
1	E	1350	ASN	C-N-CA	-7.99	111.26	123.17
1	A	36	ALA	N-CA-C	-7.99	102.79	112.54
1	E	641	SER	N-CA-C	-7.99	97.31	110.17
1	D	304	THR	N-CA-C	-7.98	98.21	110.10
1	F	913	GLY	N-CA-C	-7.98	95.61	111.34
1	B	913	GLY	N-CA-C	-7.98	95.62	111.34
1	F	304	THR	N-CA-C	-7.98	98.21	110.10
1	B	1093	GLY	N-CA-C	7.98	117.47	110.21
1	D	913	GLY	N-CA-C	-7.97	95.63	111.34
1	F	1093	GLY	N-CA-C	7.97	117.47	110.21

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	304	THR	N-CA-C	-7.97	98.22	110.10
1	D	1093	GLY	N-CA-C	7.96	117.45	110.21
2	I	333	GLU	N-CA-CB	7.95	122.61	110.28
2	K	333	GLU	N-CA-CB	7.95	122.61	110.28
2	H	333	GLU	N-CA-CB	7.95	122.61	110.28
2	L	333	GLU	N-CA-CB	7.95	122.61	110.28
2	G	333	GLU	N-CA-CB	7.95	122.60	110.28
2	J	333	GLU	N-CA-CB	7.95	122.60	110.28
1	B	391	ILE	N-CA-C	-7.94	97.87	108.35
1	F	782	ARG	CA-C-N	-7.93	110.66	122.24
1	F	782	ARG	C-N-CA	-7.93	110.66	122.24
1	F	391	ILE	N-CA-C	-7.92	97.89	108.35
1	B	782	ARG	CA-C-N	-7.92	110.68	122.24
1	B	782	ARG	C-N-CA	-7.92	110.68	122.24
1	D	782	ARG	CA-C-N	-7.92	110.68	122.24
1	D	782	ARG	C-N-CA	-7.92	110.68	122.24
1	C	783	LYS	N-CA-C	-7.91	104.07	112.93
2	H	350	PRO	N-CA-C	7.91	123.95	111.38
2	L	350	PRO	N-CA-C	7.91	123.95	111.38
1	D	391	ILE	N-CA-C	-7.91	97.91	108.35
1	A	915	PHE	N-CA-C	7.90	127.63	110.80
1	E	783	LYS	N-CA-C	-7.90	104.08	112.93
1	A	511	ILE	CB-CA-C	-7.90	99.79	112.03
1	E	915	PHE	N-CA-C	7.89	127.62	110.80
2	G	350	PRO	N-CA-C	7.89	123.93	111.38
2	J	350	PRO	N-CA-C	7.89	123.93	111.38
2	I	350	PRO	N-CA-C	7.89	123.93	111.38
2	K	350	PRO	N-CA-C	7.89	123.93	111.38
1	A	783	LYS	N-CA-C	-7.88	104.10	112.93
1	F	640	THR	CB-CA-C	-7.88	95.42	110.24
1	D	640	THR	CB-CA-C	-7.88	95.42	110.24
1	C	511	ILE	CB-CA-C	-7.88	99.81	112.03
1	C	915	PHE	N-CA-C	7.88	127.59	110.80
1	E	511	ILE	CB-CA-C	-7.88	99.81	112.03
1	A	337	ASP	CA-C-N	-7.88	110.29	120.14
1	A	337	ASP	C-N-CA	-7.88	110.29	120.14
1	E	337	ASP	CA-C-N	-7.88	110.29	120.14
1	E	337	ASP	C-N-CA	-7.88	110.29	120.14
1	B	640	THR	CB-CA-C	-7.87	95.44	110.24
1	B	704	LEU	N-CA-CB	-7.86	97.21	110.49
1	C	337	ASP	CA-C-N	-7.86	110.32	120.14
1	C	337	ASP	C-N-CA	-7.86	110.32	120.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	1063	HIS	N-CA-C	-7.85	101.32	113.02
1	D	704	LEU	N-CA-CB	-7.85	97.23	110.49
1	A	1063	HIS	N-CA-C	-7.84	101.33	113.02
1	E	1063	HIS	N-CA-C	-7.83	101.35	113.02
1	F	704	LEU	N-CA-CB	-7.83	97.25	110.49
2	G	380	PRO	N-CA-C	7.81	123.33	111.14
2	J	380	PRO	N-CA-C	7.81	123.33	111.14
1	E	1390	GLY	N-CA-C	-7.81	94.67	113.18
2	H	380	PRO	N-CA-C	7.81	123.32	111.14
2	L	380	PRO	N-CA-C	7.81	123.32	111.14
2	I	380	PRO	N-CA-C	7.80	123.31	111.14
2	K	380	PRO	N-CA-C	7.80	123.31	111.14
1	F	727	ALA	CA-C-N	-7.80	110.02	122.50
1	F	727	ALA	C-N-CA	-7.80	110.02	122.50
1	B	727	ALA	CA-C-N	-7.79	110.03	122.50
1	B	727	ALA	C-N-CA	-7.79	110.03	122.50
1	D	727	ALA	CA-C-N	-7.79	110.03	122.50
1	D	727	ALA	C-N-CA	-7.79	110.03	122.50
1	A	1390	GLY	N-CA-C	-7.79	94.72	113.18
1	C	805	ASP	CB-CA-C	-7.79	101.42	111.86
1	C	1390	GLY	N-CA-C	-7.78	94.73	113.18
1	B	90	ARG	N-CA-C	7.77	119.75	111.28
1	A	805	ASP	CB-CA-C	-7.77	101.45	111.86
1	A	487	VAL	CB-CA-C	-7.77	101.87	112.04
1	C	487	VAL	CB-CA-C	-7.76	101.88	112.04
1	D	1374	VAL	CB-CA-C	-7.76	100.12	111.68
1	E	487	VAL	CB-CA-C	-7.76	101.88	112.04
1	F	1374	VAL	CB-CA-C	-7.75	100.13	111.68
1	B	1374	VAL	CB-CA-C	-7.75	100.14	111.68
1	E	805	ASP	CB-CA-C	-7.75	101.48	111.86
1	D	90	ARG	N-CA-C	7.74	119.72	111.28
1	F	90	ARG	N-CA-C	7.73	119.71	111.28
1	D	64	HIS	N-CA-C	-7.70	98.86	109.95
1	B	64	HIS	N-CA-C	-7.69	98.88	109.95
1	F	64	HIS	N-CA-C	-7.69	98.88	109.95
1	A	391	ILE	N-CA-C	-7.68	97.43	108.42
1	C	391	ILE	N-CA-C	-7.68	97.44	108.42
1	E	391	ILE	N-CA-C	-7.67	97.45	108.42
1	C	812	LYS	N-CA-C	-7.66	102.87	112.90
1	E	812	LYS	N-CA-C	-7.66	102.87	112.90
1	A	812	LYS	N-CA-C	-7.65	102.88	112.90
1	E	1244	THR	CA-C-N	-7.62	110.07	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1244	THR	C-N-CA	-7.62	110.07	120.28
1	A	1244	THR	CA-C-N	-7.61	110.08	120.28
1	A	1244	THR	C-N-CA	-7.61	110.08	120.28
1	C	1244	THR	CA-C-N	-7.59	110.11	120.28
1	C	1244	THR	C-N-CA	-7.59	110.11	120.28
1	E	1173	ARG	N-CA-C	-7.59	97.38	109.59
2	I	283	GLY	N-CA-C	-7.58	103.31	113.24
2	K	283	GLY	N-CA-C	-7.58	103.31	113.24
1	C	1173	ARG	N-CA-C	-7.58	97.39	109.59
1	A	1173	ARG	N-CA-C	-7.58	97.39	109.59
1	F	519	VAL	CB-CA-C	-7.57	99.83	112.16
2	G	283	GLY	N-CA-C	-7.57	103.33	113.24
2	J	283	GLY	N-CA-C	-7.57	103.33	113.24
1	D	519	VAL	CB-CA-C	-7.56	99.83	112.16
1	B	519	VAL	CB-CA-C	-7.56	99.84	112.16
1	C	457	THR	N-CA-C	7.56	119.17	108.74
1	E	457	THR	N-CA-C	7.56	119.17	108.74
2	H	283	GLY	N-CA-C	-7.55	103.35	113.24
2	L	283	GLY	N-CA-C	-7.55	103.35	113.24
1	A	457	THR	N-CA-C	7.55	119.16	108.74
1	D	1062	ARG	NE-CZ-NH1	-7.55	113.95	121.50
1	B	1062	ARG	NE-CZ-NH1	-7.54	113.96	121.50
1	B	860	MET	N-CA-C	-7.53	98.31	109.15
2	H	388	PHE	CA-CB-CG	-7.52	106.28	113.80
2	L	388	PHE	CA-CB-CG	-7.52	106.28	113.80
1	D	860	MET	N-CA-C	-7.52	98.32	109.15
1	C	1106	ARG	N-CA-C	7.52	121.89	111.74
1	E	1106	ARG	N-CA-C	7.52	121.89	111.74
1	F	860	MET	N-CA-C	-7.52	98.32	109.15
1	A	1106	ARG	N-CA-C	7.51	121.88	111.74
1	F	1062	ARG	NE-CZ-NH1	-7.51	113.98	121.50
1	E	3	VAL	N-CA-C	-7.51	96.56	108.95
2	I	388	PHE	CA-CB-CG	-7.50	106.30	113.80
2	K	388	PHE	CA-CB-CG	-7.50	106.30	113.80
1	D	228	LEU	N-CA-C	7.50	120.56	109.24
2	G	388	PHE	CA-CB-CG	-7.50	106.30	113.80
2	J	388	PHE	CA-CB-CG	-7.50	106.30	113.80
1	A	3	VAL	N-CA-C	-7.50	96.58	108.95
1	B	228	LEU	N-CA-C	7.49	120.56	109.24
1	F	228	LEU	N-CA-C	7.49	120.55	109.24
1	F	863	LEU	N-CA-C	7.49	121.65	109.59
1	C	3	VAL	N-CA-C	-7.49	96.59	108.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	863	LEU	N-CA-C	7.49	121.64	109.59
1	F	915	PHE	CA-C-N	-7.47	106.76	121.41
1	F	915	PHE	C-N-CA	-7.47	106.76	121.41
1	B	915	PHE	CA-C-N	-7.47	106.76	121.41
1	B	915	PHE	C-N-CA	-7.47	106.76	121.41
1	D	863	LEU	N-CA-C	7.47	121.61	109.59
1	D	915	PHE	CA-C-N	-7.46	106.78	121.41
1	D	915	PHE	C-N-CA	-7.46	106.78	121.41
1	D	686	SER	N-CA-C	-7.46	104.21	112.72
1	B	1053	HIS	CB-CA-C	-7.45	98.01	110.68
1	F	1053	HIS	CB-CA-C	-7.45	98.02	110.68
1	C	1193	GLY	CA-C-N	-7.44	110.30	120.87
1	C	1193	GLY	C-N-CA	-7.44	110.30	120.87
1	F	368	GLU	CA-CB-CG	7.44	128.99	114.10
1	A	1193	GLY	CA-C-N	-7.44	110.30	120.87
1	A	1193	GLY	C-N-CA	-7.44	110.30	120.87
1	D	1053	HIS	CB-CA-C	-7.44	98.03	110.68
1	B	368	GLU	CA-CB-CG	7.43	128.97	114.10
1	E	1193	GLY	CA-C-N	-7.43	110.32	120.87
1	E	1193	GLY	C-N-CA	-7.43	110.32	120.87
1	B	686	SER	N-CA-C	-7.43	104.25	112.72
1	D	368	GLU	CA-CB-CG	7.42	128.95	114.10
1	F	686	SER	N-CA-C	-7.42	104.26	112.72
1	F	618	ILE	CB-CA-C	-7.42	104.04	110.94
1	B	618	ILE	CB-CA-C	-7.40	104.06	110.94
1	D	702	ASP	N-CA-C	-7.39	104.14	113.01
1	F	702	ASP	N-CA-C	-7.38	104.15	113.01
1	B	702	ASP	N-CA-C	-7.38	104.16	113.01
1	F	791	GLU	N-CA-C	-7.36	97.87	109.50
1	B	791	GLU	N-CA-C	-7.36	97.88	109.50
1	D	791	GLU	N-CA-C	-7.36	97.88	109.50
1	D	618	ILE	CB-CA-C	-7.34	104.11	110.94
1	E	978	GLU	CA-CB-CG	-7.34	99.41	114.10
1	F	237	VAL	N-CA-C	7.34	118.14	110.72
1	A	978	GLU	CA-CB-CG	-7.33	99.44	114.10
1	B	237	VAL	N-CA-C	7.33	118.12	110.72
1	E	687	MET	N-CA-C	7.33	120.12	109.71
1	C	978	GLU	CA-CB-CG	-7.33	99.45	114.10
1	C	3	VAL	CB-CA-C	-7.32	99.42	110.55
1	A	3	VAL	CB-CA-C	-7.32	99.42	110.55
1	A	715	VAL	CB-CA-C	-7.31	99.30	111.29
1	C	715	VAL	CB-CA-C	-7.31	99.30	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	915	PHE	CA-C-N	-7.31	107.09	121.41
1	C	915	PHE	C-N-CA	-7.31	107.09	121.41
1	A	915	PHE	CA-C-N	-7.31	107.09	121.41
1	A	915	PHE	C-N-CA	-7.31	107.09	121.41
1	D	1075	THR	N-CA-C	7.31	120.17	109.07
1	E	715	VAL	CB-CA-C	-7.30	99.31	111.29
1	E	915	PHE	CA-C-N	-7.30	107.09	121.41
1	E	915	PHE	C-N-CA	-7.30	107.09	121.41
1	D	237	VAL	N-CA-C	7.30	118.10	110.72
1	E	3	VAL	CB-CA-C	-7.30	99.45	110.55
1	F	1075	THR	N-CA-C	7.30	120.16	109.07
1	B	1075	THR	N-CA-C	7.30	120.16	109.07
1	A	687	MET	N-CA-C	7.29	120.06	109.71
1	C	687	MET	N-CA-C	7.28	120.05	109.71
1	E	442	MET	CA-C-N	-7.26	111.95	122.19
1	E	442	MET	C-N-CA	-7.26	111.95	122.19
2	H	248	ILE	N-CA-C	7.26	121.19	111.17
2	L	248	ILE	N-CA-C	7.26	121.19	111.17
1	E	1126	GLN	N-CA-C	-7.26	103.58	113.30
1	C	1126	GLN	N-CA-C	-7.25	103.58	113.30
1	B	1468	VAL	CB-CA-C	-7.25	102.54	110.95
1	A	442	MET	CA-C-N	-7.25	111.97	122.19
1	A	442	MET	C-N-CA	-7.25	111.97	122.19
2	G	248	ILE	N-CA-C	7.25	121.17	111.17
2	J	248	ILE	N-CA-C	7.25	121.17	111.17
1	A	1126	GLN	N-CA-C	-7.25	103.59	113.30
2	I	248	ILE	N-CA-C	7.25	121.17	111.17
2	K	248	ILE	N-CA-C	7.25	121.17	111.17
1	E	237	VAL	N-CA-C	7.25	118.01	110.62
1	D	1468	VAL	CB-CA-C	-7.23	102.56	110.95
1	C	442	MET	CA-C-N	-7.23	111.99	122.19
1	C	442	MET	C-N-CA	-7.23	111.99	122.19
1	C	237	VAL	N-CA-C	7.23	117.99	110.62
1	A	237	VAL	N-CA-C	7.22	117.98	110.62
1	F	1468	VAL	CB-CA-C	-7.21	102.58	110.95
1	A	801	ALA	N-CA-C	7.20	119.75	111.11
1	C	801	ALA	N-CA-C	7.20	119.75	111.11
1	E	549	VAL	N-CA-C	7.19	118.93	108.58
1	A	549	VAL	N-CA-C	7.19	118.93	108.58
1	E	801	ALA	N-CA-C	7.19	119.73	111.11
1	C	549	VAL	N-CA-C	7.18	118.92	108.58
1	C	1017	ASN	N-CA-C	7.18	121.34	112.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	843	VAL	CB-CA-C	-7.18	102.01	111.13
1	A	1017	ASN	N-CA-C	7.18	121.33	112.58
1	E	1017	ASN	N-CA-C	7.18	121.33	112.58
1	F	511	ILE	CB-CA-C	-7.18	101.94	111.70
1	B	843	VAL	CB-CA-C	-7.17	102.02	111.13
1	B	511	ILE	CB-CA-C	-7.17	101.95	111.70
1	D	511	ILE	CB-CA-C	-7.17	101.95	111.70
1	E	1193	GLY	O-C-N	-7.17	115.69	122.86
1	B	250	ARG	CB-CA-C	-7.16	98.27	109.80
1	C	1193	GLY	O-C-N	-7.16	115.70	122.86
1	A	503	PHE	CA-C-N	-7.16	111.58	122.81
1	A	503	PHE	C-N-CA	-7.16	111.58	122.81
1	C	503	PHE	CA-C-N	-7.16	111.58	122.81
1	C	503	PHE	C-N-CA	-7.16	111.58	122.81
1	E	503	PHE	CA-C-N	-7.16	111.58	122.81
1	E	503	PHE	C-N-CA	-7.16	111.58	122.81
1	A	1193	GLY	O-C-N	-7.15	115.71	122.86
1	D	843	VAL	CB-CA-C	-7.15	102.05	111.13
1	F	250	ARG	CB-CA-C	-7.15	98.28	109.80
1	A	182	MET	CB-CA-C	-7.15	101.04	111.91
1	D	250	ARG	CB-CA-C	-7.15	98.30	109.80
1	E	182	MET	CB-CA-C	-7.14	101.05	111.91
1	C	182	MET	CB-CA-C	-7.14	101.05	111.91
2	H	397	LYS	CA-C-N	7.11	135.24	122.38
2	H	397	LYS	C-N-CA	7.11	135.24	122.38
2	L	397	LYS	CA-C-N	7.11	135.24	122.38
2	L	397	LYS	C-N-CA	7.11	135.24	122.38
2	G	397	LYS	CA-C-N	7.10	135.23	122.38
2	G	397	LYS	C-N-CA	7.10	135.23	122.38
2	J	397	LYS	CA-C-N	7.10	135.23	122.38
2	J	397	LYS	C-N-CA	7.10	135.23	122.38
2	I	397	LYS	CA-C-N	7.09	135.21	122.38
2	I	397	LYS	C-N-CA	7.09	135.21	122.38
2	K	397	LYS	CA-C-N	7.09	135.21	122.38
2	K	397	LYS	C-N-CA	7.09	135.21	122.38
1	D	3	VAL	N-CA-C	-7.08	97.14	108.90
1	D	74	GLY	N-CA-C	-7.08	98.10	110.71
1	B	3	VAL	N-CA-C	-7.07	97.16	108.90
1	B	74	GLY	N-CA-C	-7.07	98.13	110.71
1	F	3	VAL	N-CA-C	-7.06	97.18	108.90
2	I	187	VAL	CB-CA-C	-7.06	102.80	112.04
2	K	187	VAL	CB-CA-C	-7.06	102.80	112.04

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	74	GLY	N-CA-C	-7.05	98.15	110.71
2	G	187	VAL	CB-CA-C	-7.05	102.80	112.04
2	H	187	VAL	CB-CA-C	-7.05	102.80	112.04
2	J	187	VAL	CB-CA-C	-7.05	102.80	112.04
2	L	187	VAL	CB-CA-C	-7.05	102.80	112.04
1	C	980	LEU	CB-CA-C	-7.05	99.03	110.74
1	E	980	LEU	CB-CA-C	-7.05	99.03	110.74
2	H	413	PRO	N-CA-C	7.05	122.32	111.11
2	L	413	PRO	N-CA-C	7.05	122.32	111.11
2	I	413	PRO	N-CA-C	7.05	122.31	111.11
2	K	413	PRO	N-CA-C	7.05	122.31	111.11
1	A	980	LEU	CB-CA-C	-7.04	99.05	110.74
1	F	773	LEU	N-CA-C	-7.04	100.88	109.83
1	F	262	ASP	N-CA-C	-7.04	103.36	112.23
2	G	413	PRO	N-CA-C	7.04	122.31	111.11
2	J	413	PRO	N-CA-C	7.04	122.31	111.11
1	A	952	MET	N-CA-C	-7.04	103.54	111.07
1	B	773	LEU	N-CA-C	-7.04	100.89	109.83
1	C	1149	ILE	CB-CA-C	-7.04	102.51	112.22
1	B	262	ASP	N-CA-C	-7.04	103.36	112.23
1	D	262	ASP	N-CA-C	-7.04	103.36	112.23
1	C	952	MET	N-CA-C	-7.03	103.54	111.07
1	D	773	LEU	N-CA-C	-7.03	100.90	109.83
1	C	163	GLN	CA-C-N	-7.02	114.08	122.93
1	C	163	GLN	C-N-CA	-7.02	114.08	122.93
1	E	163	GLN	CA-C-N	-7.02	114.08	122.93
1	E	163	GLN	C-N-CA	-7.02	114.08	122.93
1	E	952	MET	N-CA-C	-7.02	103.56	111.07
1	E	1149	ILE	CB-CA-C	-7.02	102.54	112.22
1	A	163	GLN	CA-C-N	-7.02	114.09	122.93
1	A	163	GLN	C-N-CA	-7.02	114.09	122.93
1	A	1149	ILE	CB-CA-C	-7.01	102.54	112.22
2	H	72	THR	N-CA-C	-7.00	103.70	111.82
2	L	72	THR	N-CA-C	-7.00	103.70	111.82
1	E	613	PRO	N-CD-CG	-7.00	92.71	103.20
2	I	72	THR	N-CA-C	-6.99	103.71	111.82
2	K	72	THR	N-CA-C	-6.99	103.71	111.82
2	G	72	THR	N-CA-C	-6.99	103.71	111.82
2	J	72	THR	N-CA-C	-6.99	103.71	111.82
1	C	613	PRO	N-CD-CG	-6.98	92.72	103.20
1	A	613	PRO	N-CD-CG	-6.98	92.73	103.20
1	D	978	GLU	CA-CB-CG	-6.98	100.14	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	727	ALA	CA-C-N	-6.98	114.14	122.93
1	A	727	ALA	C-N-CA	-6.98	114.14	122.93
1	C	727	ALA	CA-C-N	-6.98	114.14	122.93
1	C	727	ALA	C-N-CA	-6.98	114.14	122.93
1	F	978	GLU	CA-CB-CG	-6.97	100.15	114.10
1	E	727	ALA	CA-C-N	-6.97	114.15	122.93
1	E	727	ALA	C-N-CA	-6.97	114.15	122.93
1	B	978	GLU	CA-CB-CG	-6.97	100.16	114.10
1	B	807	TYR	N-CA-C	-6.96	103.75	111.82
1	C	1091	GLY	CA-C-N	-6.96	114.27	123.17
1	C	1091	GLY	C-N-CA	-6.96	114.27	123.17
1	D	807	TYR	N-CA-C	-6.95	103.76	111.82
1	F	807	TYR	N-CA-C	-6.95	103.76	111.82
1	A	609	GLU	CA-C-N	-6.94	108.28	121.54
1	A	609	GLU	C-N-CA	-6.94	108.28	121.54
1	E	609	GLU	CA-C-N	-6.94	108.28	121.54
1	E	609	GLU	C-N-CA	-6.94	108.28	121.54
1	E	729	GLY	N-CA-C	6.94	123.27	114.25
1	A	729	GLY	N-CA-C	6.94	123.27	114.25
1	C	10	ASP	N-CA-C	6.93	121.33	113.01
1	A	10	ASP	N-CA-C	6.93	121.33	113.01
1	A	1091	GLY	CA-C-N	-6.93	114.30	123.17
1	A	1091	GLY	C-N-CA	-6.93	114.30	123.17
1	C	609	GLU	CA-C-N	-6.92	108.31	121.54
1	C	609	GLU	C-N-CA	-6.92	108.31	121.54
2	G	220	VAL	CB-CA-C	-6.92	103.76	111.23
2	I	146	LEU	CA-C-N	-6.92	107.85	121.41
2	I	146	LEU	C-N-CA	-6.92	107.85	121.41
2	J	220	VAL	CB-CA-C	-6.92	103.76	111.23
2	K	146	LEU	CA-C-N	-6.92	107.85	121.41
2	K	146	LEU	C-N-CA	-6.92	107.85	121.41
1	C	729	GLY	N-CA-C	6.92	123.24	114.25
1	E	10	ASP	N-CA-C	6.91	121.31	113.01
1	A	502	ASN	N-CA-C	-6.91	100.57	110.59
1	C	502	ASN	N-CA-C	-6.91	100.57	110.59
1	F	925	CYS	N-CA-C	6.91	117.62	107.88
2	G	146	LEU	CA-C-N	-6.91	107.87	121.41
2	G	146	LEU	C-N-CA	-6.91	107.87	121.41
2	H	220	VAL	CB-CA-C	-6.91	103.77	111.23
2	J	146	LEU	CA-C-N	-6.91	107.87	121.41
2	J	146	LEU	C-N-CA	-6.91	107.87	121.41
2	L	220	VAL	CB-CA-C	-6.91	103.77	111.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	146	LEU	CA-C-N	-6.91	107.88	121.41
2	H	146	LEU	C-N-CA	-6.91	107.88	121.41
2	L	146	LEU	CA-C-N	-6.91	107.88	121.41
2	L	146	LEU	C-N-CA	-6.91	107.88	121.41
1	D	925	CYS	N-CA-C	6.90	117.61	107.88
1	A	1208	PRO	CB-CA-C	-6.90	102.56	111.46
1	C	837	PRO	N-CD-CG	-6.90	92.85	103.20
1	E	1208	PRO	CB-CA-C	-6.90	102.56	111.46
2	I	220	VAL	CB-CA-C	-6.90	103.78	111.23
2	K	220	VAL	CB-CA-C	-6.90	103.78	111.23
1	E	837	PRO	N-CD-CG	-6.90	92.85	103.20
1	F	1268	LEU	CB-CA-C	-6.90	100.20	110.62
1	A	837	PRO	N-CD-CG	-6.90	92.86	103.20
1	E	1091	GLY	CA-C-N	-6.90	114.34	123.17
1	E	1091	GLY	C-N-CA	-6.90	114.34	123.17
1	E	502	ASN	N-CA-C	-6.89	100.59	110.59
1	F	457	THR	N-CA-C	6.89	117.14	108.45
1	B	925	CYS	N-CA-C	6.89	117.59	107.88
1	C	1208	PRO	CB-CA-C	-6.88	102.59	111.46
2	G	216	PRO	CA-C-N	-6.88	108.40	121.54
2	G	216	PRO	C-N-CA	-6.88	108.40	121.54
2	J	216	PRO	CA-C-N	-6.88	108.40	121.54
2	J	216	PRO	C-N-CA	-6.88	108.40	121.54
1	B	1114	PRO	CB-CA-C	-6.87	100.22	111.56
1	B	1268	LEU	CB-CA-C	-6.87	100.24	110.62
2	I	216	PRO	CA-C-N	-6.87	108.41	121.54
2	I	216	PRO	C-N-CA	-6.87	108.41	121.54
2	K	216	PRO	CA-C-N	-6.87	108.41	121.54
2	K	216	PRO	C-N-CA	-6.87	108.41	121.54
1	F	1114	PRO	CB-CA-C	-6.87	100.22	111.56
1	D	1114	PRO	CB-CA-C	-6.87	100.23	111.56
1	E	782	ARG	CA-C-N	-6.87	111.25	122.65
1	E	782	ARG	C-N-CA	-6.87	111.25	122.65
1	B	457	THR	N-CA-C	6.86	117.09	108.45
1	C	782	ARG	CA-C-N	-6.86	111.26	122.65
1	C	782	ARG	C-N-CA	-6.86	111.26	122.65
1	D	1268	LEU	CB-CA-C	-6.86	100.26	110.62
2	H	216	PRO	CA-C-N	-6.86	108.44	121.54
2	H	216	PRO	C-N-CA	-6.86	108.44	121.54
2	L	216	PRO	CA-C-N	-6.86	108.44	121.54
2	L	216	PRO	C-N-CA	-6.86	108.44	121.54
1	B	1350	ASN	CA-C-N	-6.86	112.27	122.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1350	ASN	C-N-CA	-6.86	112.27	122.83
1	D	1350	ASN	CA-C-N	-6.86	112.27	122.83
1	D	1350	ASN	C-N-CA	-6.86	112.27	122.83
1	D	618	ILE	N-CA-C	-6.86	102.73	108.63
1	F	1350	ASN	CA-C-N	-6.86	112.27	122.83
1	F	1350	ASN	C-N-CA	-6.86	112.27	122.83
1	A	782	ARG	CA-C-N	-6.85	111.28	122.65
1	A	782	ARG	C-N-CA	-6.85	111.28	122.65
1	B	618	ILE	N-CA-C	-6.85	102.74	108.63
1	D	90	ARG	N-CA-CB	6.85	120.19	110.12
1	F	738	HIS	CA-C-N	-6.85	111.41	124.01
1	F	738	HIS	C-N-CA	-6.85	111.41	124.01
1	B	738	HIS	CA-C-N	-6.85	111.41	124.01
1	B	738	HIS	C-N-CA	-6.85	111.41	124.01
1	F	90	ARG	N-CA-CB	6.85	120.19	110.12
1	F	618	ILE	N-CA-C	-6.85	102.74	108.63
1	D	457	THR	N-CA-C	6.84	117.07	108.45
1	B	90	ARG	N-CA-CB	6.84	120.17	110.12
1	C	1036	THR	N-CA-C	-6.83	103.28	111.69
1	B	489	SER	CA-C-N	6.82	130.68	120.31
1	B	489	SER	C-N-CA	6.82	130.68	120.31
1	D	714	SER	CB-CA-C	-6.82	99.19	110.72
1	D	489	SER	CA-C-N	6.82	130.68	120.31
1	D	489	SER	C-N-CA	6.82	130.68	120.31
1	E	485	ILE	N-CA-C	-6.82	98.50	108.87
1	E	1036	THR	N-CA-C	-6.82	103.30	111.69
1	A	1036	THR	N-CA-C	-6.82	103.31	111.69
2	H	349	ALA	CA-C-N	-6.82	112.97	119.85
2	H	349	ALA	C-N-CA	-6.82	112.97	119.85
2	L	349	ALA	CA-C-N	-6.82	112.97	119.85
2	L	349	ALA	C-N-CA	-6.82	112.97	119.85
1	C	485	ILE	N-CA-C	-6.81	98.51	108.87
1	B	714	SER	CB-CA-C	-6.81	99.21	110.72
1	F	489	SER	CA-C-N	6.81	130.67	120.31
1	F	489	SER	C-N-CA	6.81	130.67	120.31
1	A	485	ILE	N-CA-C	-6.81	98.52	108.87
1	F	714	SER	CB-CA-C	-6.81	99.22	110.72
1	C	887	GLY	N-CA-C	6.80	129.31	113.18
1	E	300	PRO	CA-C-O	-6.80	113.69	122.12
1	A	300	PRO	CA-C-O	-6.80	113.69	122.12
1	A	887	GLY	N-CA-C	6.79	129.28	113.18
2	G	49	GLN	CA-C-N	6.79	131.61	120.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	49	GLN	C-N-CA	6.79	131.61	120.94
2	J	49	GLN	CA-C-N	6.79	131.61	120.94
2	J	49	GLN	C-N-CA	6.79	131.61	120.94
1	E	887	GLY	N-CA-C	6.79	129.28	113.18
2	I	49	GLN	CA-C-N	6.79	131.61	120.94
2	I	49	GLN	C-N-CA	6.79	131.61	120.94
2	K	49	GLN	CA-C-N	6.79	131.61	120.94
2	K	49	GLN	C-N-CA	6.79	131.61	120.94
1	A	178	ILE	N-CA-C	6.79	117.68	108.17
2	I	349	ALA	CA-C-N	-6.79	112.99	119.85
2	I	349	ALA	C-N-CA	-6.79	112.99	119.85
2	K	349	ALA	CA-C-N	-6.79	112.99	119.85
2	K	349	ALA	C-N-CA	-6.79	112.99	119.85
1	C	178	ILE	N-CA-C	6.79	117.67	108.17
1	E	178	ILE	N-CA-C	6.79	117.67	108.17
2	H	49	GLN	CA-C-N	6.79	131.59	120.94
2	H	49	GLN	C-N-CA	6.79	131.59	120.94
2	L	49	GLN	CA-C-N	6.79	131.59	120.94
2	L	49	GLN	C-N-CA	6.79	131.59	120.94
2	G	349	ALA	CA-C-N	-6.78	113.00	119.85
2	G	349	ALA	C-N-CA	-6.78	113.00	119.85
2	J	349	ALA	CA-C-N	-6.78	113.00	119.85
2	J	349	ALA	C-N-CA	-6.78	113.00	119.85
1	C	300	PRO	CA-C-O	-6.78	113.71	122.12
1	C	1074	LYS	CB-CA-C	-6.78	98.16	109.55
1	F	716	ILE	N-CA-C	6.78	120.52	111.44
1	A	651	ASP	N-CA-C	6.77	120.41	110.59
1	D	325	GLU	CB-CA-C	-6.77	102.13	109.85
1	E	651	ASP	N-CA-C	6.77	120.41	110.59
1	B	325	GLU	CB-CA-C	-6.77	102.14	109.85
1	D	263	LEU	N-CA-C	6.76	119.52	111.33
1	C	651	ASP	N-CA-C	6.76	120.40	110.59
1	D	746	ILE	N-CA-CB	6.76	121.13	112.34
1	B	716	ILE	N-CA-C	6.76	120.50	111.44
1	C	1420	TYR	N-CA-C	-6.76	103.38	111.69
2	H	93	ILE	CB-CA-C	-6.76	102.89	112.22
2	H	401	PHE	CA-CB-CG	-6.76	107.04	113.80
2	L	93	ILE	CB-CA-C	-6.76	102.89	112.22
2	L	401	PHE	CA-CB-CG	-6.76	107.04	113.80
1	F	651	ASP	CB-CA-C	-6.76	98.76	110.45
1	D	716	ILE	N-CA-C	6.75	120.49	111.44
1	F	464	ILE	N-CA-C	6.75	116.96	111.62

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	263	LEU	N-CA-C	6.75	119.50	111.33
1	D	651	ASP	CB-CA-C	-6.75	98.77	110.45
1	E	1420	TYR	N-CA-C	-6.75	103.39	111.69
1	F	263	LEU	N-CA-C	6.75	119.50	111.33
2	G	93	ILE	CB-CA-C	-6.75	102.91	112.22
2	J	93	ILE	CB-CA-C	-6.75	102.91	112.22
1	A	1074	LYS	CB-CA-C	-6.75	98.21	109.55
1	B	651	ASP	CB-CA-C	-6.75	98.77	110.45
1	A	1420	TYR	N-CA-C	-6.75	103.39	111.69
1	F	325	GLU	CB-CA-C	-6.75	102.16	109.85
1	D	464	ILE	N-CA-C	6.75	116.95	111.62
2	G	401	PHE	CA-CB-CG	-6.75	107.06	113.80
2	J	401	PHE	CA-CB-CG	-6.75	107.06	113.80
1	B	1217	ALA	N-CA-C	-6.74	103.40	111.69
1	F	746	ILE	N-CA-CB	6.74	121.11	112.34
2	I	401	PHE	CA-CB-CG	-6.74	107.06	113.80
2	K	401	PHE	CA-CB-CG	-6.74	107.06	113.80
1	B	464	ILE	N-CA-C	6.74	116.94	111.62
1	D	1217	ALA	N-CA-C	-6.74	103.40	111.69
1	C	392	ALA	N-CA-C	6.73	118.43	108.60
1	E	290	THR	CB-CA-C	-6.73	97.02	110.42
2	H	396	ILE	CB-CA-C	-6.73	100.50	110.33
2	I	332	ARG	CA-C-N	-6.73	110.08	120.31
2	I	332	ARG	C-N-CA	-6.73	110.08	120.31
2	K	332	ARG	CA-C-N	-6.73	110.08	120.31
2	K	332	ARG	C-N-CA	-6.73	110.08	120.31
2	L	396	ILE	CB-CA-C	-6.73	100.50	110.33
1	B	746	ILE	N-CA-CB	6.73	121.09	112.34
1	C	907	ILE	N-CA-CB	-6.73	103.42	111.90
1	A	290	THR	CB-CA-C	-6.73	97.03	110.42
1	C	479	MET	CG-SD-CE	6.73	115.70	100.90
1	C	290	THR	CB-CA-C	-6.73	97.03	110.42
1	E	1074	LYS	CB-CA-C	-6.73	98.25	109.55
2	G	332	ARG	CA-C-N	-6.73	110.08	120.31
2	G	332	ARG	C-N-CA	-6.73	110.08	120.31
2	H	332	ARG	CA-C-N	-6.73	110.08	120.31
2	H	332	ARG	C-N-CA	-6.73	110.08	120.31
2	I	93	ILE	CB-CA-C	-6.73	102.94	112.22
2	J	332	ARG	CA-C-N	-6.73	110.08	120.31
2	J	332	ARG	C-N-CA	-6.73	110.08	120.31
2	K	93	ILE	CB-CA-C	-6.73	102.94	112.22
2	L	332	ARG	CA-C-N	-6.73	110.08	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	332	ARG	C-N-CA	-6.73	110.08	120.31
1	F	1217	ALA	N-CA-C	-6.73	103.42	111.69
1	A	479	MET	CG-SD-CE	6.72	115.69	100.90
1	E	479	MET	CG-SD-CE	6.72	115.69	100.90
1	A	1118	CYS	N-CA-C	6.72	119.19	109.71
2	G	396	ILE	CB-CA-C	-6.72	100.52	110.33
2	J	396	ILE	CB-CA-C	-6.72	100.52	110.33
1	A	392	ALA	N-CA-C	6.72	118.41	108.60
1	E	1118	CYS	N-CA-C	6.72	119.18	109.71
1	E	70	LYS	N-CA-C	-6.71	99.36	110.17
1	A	907	ILE	N-CA-CB	-6.71	103.44	111.90
1	C	1118	CYS	N-CA-C	6.71	119.17	109.71
1	E	392	ALA	N-CA-C	6.71	118.40	108.60
2	I	396	ILE	CB-CA-C	-6.71	100.53	110.33
2	K	396	ILE	CB-CA-C	-6.71	100.53	110.33
1	E	907	ILE	N-CA-CB	-6.71	103.45	111.90
1	A	70	LYS	N-CA-C	-6.70	99.38	110.17
1	B	159	VAL	N-CA-C	-6.70	103.79	110.62
1	A	964	MET	CB-CA-C	-6.69	97.79	109.64
1	E	964	MET	CB-CA-C	-6.69	97.79	109.64
2	H	218	PHE	CA-CB-CG	-6.69	107.11	113.80
2	L	218	PHE	CA-CB-CG	-6.69	107.11	113.80
1	F	575	VAL	N-CA-C	-6.69	106.06	111.81
1	C	964	MET	CB-CA-C	-6.69	97.80	109.64
1	C	70	LYS	N-CA-C	-6.69	99.40	110.17
1	D	159	VAL	N-CA-C	-6.68	103.81	110.62
2	I	218	PHE	CA-CB-CG	-6.68	107.12	113.80
2	K	218	PHE	CA-CB-CG	-6.68	107.12	113.80
1	D	575	VAL	N-CA-C	-6.68	106.07	111.81
1	F	159	VAL	N-CA-C	-6.67	103.81	110.62
2	G	218	PHE	CA-CB-CG	-6.67	107.13	113.80
2	J	218	PHE	CA-CB-CG	-6.67	107.13	113.80
1	E	690	GLU	N-CA-C	-6.67	102.64	111.24
2	G	127	ILE	N-CA-C	-6.66	103.83	110.62
2	J	127	ILE	N-CA-C	-6.66	103.83	110.62
1	B	575	VAL	N-CA-C	-6.66	106.08	111.81
1	C	690	GLU	N-CA-C	-6.66	102.65	111.24
1	F	186	GLU	N-CA-C	-6.65	104.27	112.38
2	H	127	ILE	N-CA-C	-6.65	103.84	110.62
2	L	127	ILE	N-CA-C	-6.65	103.84	110.62
1	A	690	GLU	N-CA-C	-6.65	102.66	111.24
1	B	1092	ILE	N-CA-C	6.64	117.28	106.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	192	TYR	CB-CA-C	-6.64	101.84	111.01
1	A	1005	GLY	N-CA-C	-6.64	105.89	114.85
1	B	186	GLU	N-CA-C	-6.64	104.28	112.38
1	D	186	GLU	N-CA-C	-6.64	104.28	112.38
1	E	192	TYR	CB-CA-C	-6.64	101.85	111.01
2	I	242	VAL	CB-CA-C	-6.64	102.90	111.53
2	K	242	VAL	CB-CA-C	-6.64	102.90	111.53
1	E	1005	GLY	N-CA-C	-6.64	105.89	114.85
1	A	192	TYR	CB-CA-C	-6.63	101.86	111.01
1	D	1092	ILE	N-CA-C	6.63	117.27	106.72
1	F	1092	ILE	N-CA-C	6.63	117.27	106.72
2	G	242	VAL	CB-CA-C	-6.63	102.91	111.53
2	J	242	VAL	CB-CA-C	-6.63	102.91	111.53
1	A	822	PRO	CA-C-O	-6.63	113.35	121.31
1	C	1005	GLY	N-CA-C	-6.63	105.90	114.85
1	E	822	PRO	CA-C-O	-6.63	113.35	121.31
2	I	127	ILE	N-CA-C	-6.63	103.86	110.62
2	K	127	ILE	N-CA-C	-6.63	103.86	110.62
1	E	1388	THR	N-CA-C	6.62	124.91	110.80
1	A	1388	THR	N-CA-C	6.62	124.91	110.80
2	G	35	PHE	CA-CB-CG	-6.62	107.18	113.80
2	I	35	PHE	CA-CB-CG	-6.62	107.18	113.80
2	J	35	PHE	CA-CB-CG	-6.62	107.18	113.80
2	K	35	PHE	CA-CB-CG	-6.62	107.18	113.80
1	A	351	ARG	NE-CZ-NH2	6.62	125.16	119.20
1	C	800	GLN	N-CA-C	-6.62	102.95	111.02
1	C	822	PRO	CA-C-O	-6.62	113.37	121.31
1	E	351	ARG	NE-CZ-NH2	6.62	125.16	119.20
2	H	242	VAL	CB-CA-C	-6.62	102.93	111.53
2	L	242	VAL	CB-CA-C	-6.62	102.93	111.53
1	A	800	GLN	N-CA-C	-6.61	102.95	111.02
1	C	1388	THR	N-CA-C	6.61	124.89	110.80
1	E	800	GLN	N-CA-C	-6.61	102.96	111.02
1	C	855	THR	N-CA-C	-6.61	98.12	109.15
1	C	351	ARG	NE-CZ-NH2	6.60	125.14	119.20
2	H	93	ILE	N-CA-C	-6.60	104.05	110.72
2	L	93	ILE	N-CA-C	-6.60	104.05	110.72
2	H	35	PHE	CA-CB-CG	-6.60	107.20	113.80
2	L	35	PHE	CA-CB-CG	-6.60	107.20	113.80
1	E	1292	ALA	N-CA-C	6.60	119.44	109.41
2	I	93	ILE	N-CA-C	-6.60	104.06	110.72
2	K	93	ILE	N-CA-C	-6.60	104.06	110.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1099	ALA	N-CA-C	-6.60	104.17	111.82
1	A	855	THR	N-CA-C	-6.59	98.14	109.15
1	E	855	THR	N-CA-C	-6.59	98.14	109.15
2	G	93	ILE	N-CA-C	-6.59	104.07	110.72
2	J	93	ILE	N-CA-C	-6.59	104.07	110.72
1	B	1146	VAL	N-CA-C	-6.58	104.34	110.53
1	C	1292	ALA	N-CA-C	6.58	119.42	109.41
1	A	1292	ALA	N-CA-C	6.58	119.41	109.41
1	F	1146	VAL	N-CA-C	-6.58	104.34	110.53
1	F	1099	ALA	N-CA-C	-6.57	104.20	111.82
1	D	1099	ALA	N-CA-C	-6.57	104.20	111.82
1	A	1117	VAL	CA-C-N	-6.56	112.94	122.06
1	A	1117	VAL	C-N-CA	-6.56	112.94	122.06
1	C	1117	VAL	CA-C-N	-6.56	112.94	122.06
1	C	1117	VAL	C-N-CA	-6.56	112.94	122.06
1	F	608	ASP	N-CA-CB	-6.56	100.49	110.26
1	D	1146	VAL	N-CA-C	-6.55	104.37	110.53
1	C	574	PRO	CB-CA-C	-6.55	102.67	111.12
1	A	272	SER	N-CA-C	-6.55	102.08	110.53
1	E	574	PRO	CB-CA-C	-6.55	102.67	111.12
1	D	907	ILE	N-CA-CB	-6.55	103.65	111.90
1	E	272	SER	N-CA-C	-6.55	102.08	110.53
1	A	574	PRO	CB-CA-C	-6.54	102.68	111.12
1	B	608	ASP	N-CA-CB	-6.54	100.51	110.26
1	E	1306	VAL	CB-CA-C	-6.54	100.43	110.50
1	B	907	ILE	N-CA-CB	-6.54	103.66	111.90
1	D	608	ASP	N-CA-CB	-6.54	100.52	110.26
1	E	1117	VAL	CA-C-N	-6.54	112.97	122.06
1	E	1117	VAL	C-N-CA	-6.54	112.97	122.06
1	C	272	SER	N-CA-C	-6.54	102.09	110.53
1	C	1306	VAL	CB-CA-C	-6.53	100.44	110.50
1	F	907	ILE	N-CA-CB	-6.53	103.67	111.90
1	A	1306	VAL	CB-CA-C	-6.53	100.45	110.50
1	C	793	GLY	CA-C-O	6.53	127.78	121.05
1	E	793	GLY	CA-C-O	6.53	127.78	121.05
2	H	125	LYS	CB-CA-C	-6.52	100.64	110.88
2	L	125	LYS	CB-CA-C	-6.52	100.64	110.88
1	C	1356	VAL	N-CA-C	-6.52	99.74	108.35
1	A	1356	VAL	N-CA-C	-6.52	99.75	108.35
1	A	793	GLY	CA-C-O	6.51	127.76	121.05
1	E	1356	VAL	N-CA-C	-6.51	99.75	108.35
1	F	836	ALA	N-CA-C	-6.51	101.87	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	125	LYS	CB-CA-C	-6.51	100.66	110.88
2	J	125	LYS	CB-CA-C	-6.51	100.66	110.88
1	D	836	ALA	N-CA-C	-6.51	101.87	110.40
2	I	125	LYS	CB-CA-C	-6.51	100.66	110.88
2	K	125	LYS	CB-CA-C	-6.51	100.66	110.88
1	F	639	PHE	N-CA-C	6.51	121.42	112.90
1	B	836	ALA	N-CA-C	-6.50	101.88	110.40
1	C	1367	TYR	CB-CA-C	-6.50	101.45	111.66
1	C	1034	PRO	CA-C-O	-6.50	114.02	121.56
2	H	309	ILE	N-CA-C	-6.50	102.97	111.09
2	L	309	ILE	N-CA-C	-6.50	102.97	111.09
2	H	57	VAL	N-CA-C	-6.50	104.00	110.62
2	L	57	VAL	N-CA-C	-6.50	104.00	110.62
1	A	1367	TYR	CB-CA-C	-6.49	101.47	111.66
1	F	1246	LEU	N-CA-C	-6.49	103.89	110.97
2	G	309	ILE	N-CA-C	-6.49	102.97	111.09
2	J	309	ILE	N-CA-C	-6.49	102.97	111.09
1	D	639	PHE	N-CA-C	6.49	121.40	112.90
1	D	738	HIS	CA-C-N	-6.49	111.41	123.55
1	D	738	HIS	C-N-CA	-6.49	111.41	123.55
1	E	1367	TYR	CB-CA-C	-6.49	101.47	111.66
2	I	309	ILE	N-CA-C	-6.49	102.98	111.09
2	K	309	ILE	N-CA-C	-6.49	102.98	111.09
1	B	639	PHE	N-CA-C	6.49	121.39	112.90
1	A	938	PRO	CA-C-N	-6.48	108.70	121.41
1	A	938	PRO	C-N-CA	-6.48	108.70	121.41
1	A	1034	PRO	CA-C-O	-6.48	114.04	121.56
2	G	57	VAL	N-CA-C	-6.48	104.01	110.62
2	J	57	VAL	N-CA-C	-6.48	104.01	110.62
2	I	57	VAL	N-CA-C	-6.48	104.01	110.62
2	K	57	VAL	N-CA-C	-6.48	104.01	110.62
1	E	938	PRO	CA-C-N	-6.48	108.71	121.41
1	E	938	PRO	C-N-CA	-6.48	108.71	121.41
1	E	149	TYR	CA-C-N	-6.47	110.31	121.97
1	E	149	TYR	C-N-CA	-6.47	110.31	121.97
2	H	209	ASP	CA-CB-CG	-6.47	106.13	112.60
2	L	209	ASP	CA-CB-CG	-6.47	106.13	112.60
1	C	938	PRO	CA-C-N	-6.46	108.74	121.41
1	C	938	PRO	C-N-CA	-6.46	108.74	121.41
1	C	1157	SER	N-CA-C	6.46	118.35	108.07
1	E	1034	PRO	CA-C-O	-6.46	114.06	121.56
1	F	890	ASP	CA-C-O	6.46	125.89	119.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	149	TYR	CA-C-N	-6.46	110.34	121.97
1	A	149	TYR	C-N-CA	-6.46	110.34	121.97
2	I	209	ASP	CA-CB-CG	-6.46	106.14	112.60
2	K	209	ASP	CA-CB-CG	-6.46	106.14	112.60
1	A	1157	SER	N-CA-C	6.46	118.34	108.07
2	I	37	ASP	CA-CB-CG	6.46	119.06	112.60
2	K	37	ASP	CA-CB-CG	6.46	119.06	112.60
1	E	1179	ASP	CA-C-N	-6.45	111.48	123.03
1	E	1179	ASP	C-N-CA	-6.45	111.48	123.03
2	G	200	VAL	N-CA-C	-6.45	104.20	110.72
2	G	209	ASP	CA-CB-CG	-6.45	106.15	112.60
2	J	200	VAL	N-CA-C	-6.45	104.20	110.72
2	J	209	ASP	CA-CB-CG	-6.45	106.15	112.60
1	B	1246	LEU	N-CA-C	-6.45	103.94	110.97
1	C	1179	ASP	CA-C-N	-6.45	111.48	123.03
1	C	1179	ASP	C-N-CA	-6.45	111.48	123.03
1	A	1179	ASP	CA-C-N	-6.45	111.49	123.03
1	A	1179	ASP	C-N-CA	-6.45	111.49	123.03
1	C	149	TYR	CA-C-N	-6.45	110.36	121.97
1	C	149	TYR	C-N-CA	-6.45	110.36	121.97
2	I	200	VAL	N-CA-C	-6.45	104.21	110.72
2	K	200	VAL	N-CA-C	-6.45	104.21	110.72
1	C	253	HIS	N-CA-C	-6.45	100.77	108.25
1	D	890	ASP	CA-C-O	6.45	125.87	119.49
2	H	200	VAL	N-CA-C	-6.45	104.21	110.72
2	L	200	VAL	N-CA-C	-6.45	104.21	110.72
1	C	62	ILE	N-CA-C	-6.45	104.30	113.07
1	A	253	HIS	N-CA-C	-6.44	100.78	108.25
1	D	1257	PHE	N-CA-C	6.44	120.79	112.41
1	E	253	HIS	N-CA-C	-6.44	100.78	108.25
1	D	1246	LEU	N-CA-C	-6.44	103.95	110.97
1	E	1157	SER	N-CA-C	6.44	118.31	108.07
1	B	890	ASP	CA-C-O	6.44	125.86	119.49
1	E	62	ILE	N-CA-C	-6.44	104.32	113.07
2	H	37	ASP	CA-CB-CG	6.44	119.04	112.60
2	L	37	ASP	CA-CB-CG	6.44	119.04	112.60
1	B	654	TYR	CA-C-N	-6.43	112.08	120.44
1	B	654	TYR	C-N-CA	-6.43	112.08	120.44
1	A	746	ILE	CB-CA-C	-6.43	100.12	110.28
1	C	746	ILE	CB-CA-C	-6.43	100.12	110.28
1	E	746	ILE	CB-CA-C	-6.43	100.12	110.28
1	D	804	ASN	N-CA-C	-6.42	104.70	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	915	PHE	N-CA-C	6.42	118.86	111.02
1	D	654	TYR	CA-C-N	-6.42	112.09	120.44
1	D	654	TYR	C-N-CA	-6.42	112.09	120.44
1	E	724	ASN	N-CA-C	6.42	120.65	110.70
1	A	62	ILE	N-CA-C	-6.42	104.34	113.07
1	C	52	GLN	N-CA-C	6.42	119.09	111.71
1	C	724	ASN	N-CA-C	6.42	120.64	110.70
1	D	915	PHE	N-CA-C	6.42	118.85	111.02
2	G	37	ASP	CA-CB-CG	6.41	119.01	112.60
2	J	37	ASP	CA-CB-CG	6.41	119.01	112.60
1	E	1194	GLU	N-CA-CB	6.41	119.39	109.97
1	B	804	ASN	N-CA-C	-6.41	104.72	112.54
1	F	654	TYR	CA-C-N	-6.41	112.11	120.44
1	F	654	TYR	C-N-CA	-6.41	112.11	120.44
1	C	1071	GLY	CA-C-N	-6.41	113.79	122.63
1	C	1071	GLY	C-N-CA	-6.41	113.79	122.63
1	F	804	ASN	N-CA-C	-6.40	104.73	112.54
1	E	52	GLN	N-CA-C	6.40	119.07	111.71
1	A	1071	GLY	CA-C-N	-6.40	113.80	122.63
1	A	1071	GLY	C-N-CA	-6.40	113.80	122.63
1	A	724	ASN	N-CA-C	6.39	120.61	110.70
1	F	915	PHE	N-CA-C	6.39	118.82	111.02
1	A	1194	GLU	N-CA-CB	6.39	119.36	109.97
1	D	1409	SER	CA-C-N	-6.39	110.47	121.97
1	D	1409	SER	C-N-CA	-6.39	110.47	121.97
2	H	141	THR	N-CA-C	-6.39	100.81	110.39
2	L	141	THR	N-CA-C	-6.39	100.81	110.39
1	C	12	LYS	CA-C-N	6.39	126.41	119.89
1	C	12	LYS	C-N-CA	6.39	126.41	119.89
2	H	204	VAL	N-CA-C	-6.39	104.27	110.72
2	I	204	VAL	N-CA-C	-6.39	104.27	110.72
2	K	204	VAL	N-CA-C	-6.39	104.27	110.72
2	L	204	VAL	N-CA-C	-6.39	104.27	110.72
1	C	1194	GLU	N-CA-CB	6.38	119.36	109.97
2	I	141	THR	N-CA-C	-6.38	100.82	110.39
2	K	141	THR	N-CA-C	-6.38	100.82	110.39
1	E	1071	GLY	CA-C-N	-6.38	113.82	122.63
1	E	1071	GLY	C-N-CA	-6.38	113.82	122.63
2	G	204	VAL	N-CA-C	-6.38	104.28	110.72
2	J	204	VAL	N-CA-C	-6.38	104.28	110.72
1	A	52	GLN	N-CA-C	6.38	119.05	111.71
2	G	141	THR	N-CA-C	-6.38	100.82	110.39

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	141	THR	N-CA-C	-6.38	100.82	110.39
1	C	1065	VAL	N-CA-CB	-6.37	100.00	111.92
2	G	478	VAL	CB-CA-C	-6.37	100.84	111.29
2	J	478	VAL	CB-CA-C	-6.37	100.84	111.29
1	F	1409	SER	CA-C-N	-6.37	110.50	121.97
1	F	1409	SER	C-N-CA	-6.37	110.50	121.97
1	C	1464	ASN	CA-C-N	-6.37	112.03	122.54
1	C	1464	ASN	C-N-CA	-6.37	112.03	122.54
1	E	1464	ASN	CA-C-N	-6.37	112.03	122.54
1	E	1464	ASN	C-N-CA	-6.37	112.03	122.54
1	B	1409	SER	CA-C-N	-6.37	110.51	121.97
1	B	1409	SER	C-N-CA	-6.37	110.51	121.97
1	A	12	LYS	CA-C-N	6.37	126.38	119.89
1	A	12	LYS	C-N-CA	6.37	126.38	119.89
1	E	1065	VAL	N-CA-CB	-6.36	100.02	111.92
1	D	1419	HIS	N-CA-C	-6.36	104.42	111.36
1	A	1065	VAL	N-CA-CB	-6.36	100.03	111.92
2	H	478	VAL	CB-CA-C	-6.36	100.86	111.29
2	L	478	VAL	CB-CA-C	-6.36	100.86	111.29
1	E	940	GLU	O-C-N	-6.36	114.14	122.59
2	I	478	VAL	CB-CA-C	-6.36	100.86	111.29
2	K	478	VAL	CB-CA-C	-6.36	100.86	111.29
1	A	110	VAL	N-CA-C	6.35	114.09	108.63
1	E	110	VAL	N-CA-C	6.35	114.09	108.63
1	A	1464	ASN	CA-C-N	-6.35	112.06	122.54
1	A	1464	ASN	C-N-CA	-6.35	112.06	122.54
1	C	110	VAL	N-CA-C	6.35	114.09	108.63
1	C	940	GLU	O-C-N	-6.35	114.14	122.59
1	E	12	LYS	CA-C-N	6.35	126.37	119.89
1	E	12	LYS	C-N-CA	6.35	126.37	119.89
1	F	448	ARG	CA-C-N	-6.35	109.88	120.68
1	F	448	ARG	C-N-CA	-6.35	109.88	120.68
1	F	1101	GLY	N-CA-C	6.35	123.90	114.95
1	D	1101	GLY	N-CA-C	6.35	123.90	114.95
1	A	520	MET	CB-CG-SD	-6.35	93.66	112.70
1	B	1101	GLY	N-CA-C	6.34	123.89	114.95
1	E	520	MET	CB-CG-SD	-6.34	93.68	112.70
1	C	520	MET	CB-CG-SD	-6.34	93.69	112.70
1	A	76	VAL	N-CA-C	6.34	117.83	108.45
1	A	940	GLU	O-C-N	-6.34	114.16	122.59
1	B	448	ARG	CA-C-N	-6.34	109.91	120.68
1	B	448	ARG	C-N-CA	-6.34	109.91	120.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1419	HIS	N-CA-C	-6.34	104.45	111.36
1	D	448	ARG	CA-C-N	-6.34	109.91	120.68
1	D	448	ARG	C-N-CA	-6.34	109.91	120.68
1	D	1338	ALA	N-CA-C	6.33	118.75	107.80
1	B	1451	VAL	CB-CA-C	-6.33	103.75	112.04
1	C	367	SER	N-CA-C	-6.32	104.27	112.68
1	B	1338	ALA	N-CA-C	6.32	118.73	107.80
1	D	1451	VAL	CB-CA-C	-6.32	103.76	112.04
1	B	887	GLY	N-CA-C	6.32	128.15	113.18
1	C	76	VAL	N-CA-C	6.32	117.80	108.45
1	F	1451	VAL	CB-CA-C	-6.32	103.77	112.04
1	E	76	VAL	N-CA-C	6.32	117.80	108.45
1	F	1419	HIS	N-CA-C	-6.32	104.48	111.36
1	F	1338	ALA	N-CA-C	6.31	118.72	107.80
1	D	887	GLY	N-CA-C	6.31	128.14	113.18
1	F	887	GLY	N-CA-C	6.31	128.14	113.18
1	D	228	LEU	CB-CA-C	-6.30	96.20	110.07
1	D	323	VAL	N-CA-C	6.30	116.46	110.53
1	F	228	LEU	CB-CA-C	-6.30	96.20	110.07
1	E	367	SER	N-CA-C	-6.30	104.30	112.68
1	E	1274	GLN	N-CA-C	6.30	118.43	110.24
1	E	1465	ARG	N-CA-C	-6.30	105.23	113.17
1	A	367	SER	N-CA-C	-6.30	104.31	112.68
1	C	173	SER	CA-C-N	-6.30	112.15	122.54
1	C	173	SER	C-N-CA	-6.30	112.15	122.54
1	E	1053	HIS	CB-CA-C	-6.30	100.74	110.81
1	F	323	VAL	N-CA-C	6.30	116.45	110.53
1	B	323	VAL	N-CA-C	6.29	116.45	110.53
1	A	173	SER	CA-C-N	-6.29	112.16	122.54
1	A	173	SER	C-N-CA	-6.29	112.16	122.54
1	B	228	LEU	CB-CA-C	-6.29	96.23	110.07
1	C	1465	ARG	N-CA-C	-6.29	105.24	113.17
1	F	1194	GLU	N-CA-C	6.29	119.95	110.64
1	A	1450	GLU	N-CA-C	6.29	117.93	111.14
1	E	892	ALA	N-CA-C	-6.29	103.72	111.33
1	B	1194	GLU	N-CA-C	6.29	119.94	110.64
2	I	334	VAL	N-CA-C	-6.29	103.19	111.05
2	K	334	VAL	N-CA-C	-6.29	103.19	111.05
1	A	716	ILE	N-CA-C	6.28	118.90	111.05
1	A	892	ALA	N-CA-C	-6.28	103.73	111.33
1	F	369	THR	O-C-N	-6.28	114.88	122.48
1	E	1450	GLU	N-CA-C	6.28	117.92	111.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	71	LEU	N-CA-CB	-6.28	100.71	110.57
1	D	1194	GLU	N-CA-C	6.28	119.94	110.64
1	E	716	ILE	N-CA-C	6.28	118.90	111.05
1	A	1053	HIS	CB-CA-C	-6.28	100.76	110.81
1	E	173	SER	CA-C-N	-6.28	112.18	122.54
1	E	173	SER	C-N-CA	-6.28	112.18	122.54
1	C	1450	GLU	N-CA-C	6.28	117.92	111.14
1	E	79	PRO	N-CA-C	-6.28	101.23	111.15
1	A	1274	GLN	N-CA-C	6.28	118.40	110.24
1	A	338	GLY	N-CA-C	6.27	121.46	113.24
1	C	71	LEU	N-CA-CB	-6.27	100.72	110.57
1	A	79	PRO	N-CA-C	-6.27	101.24	111.15
1	C	892	ALA	N-CA-C	-6.27	103.74	111.33
1	E	338	GLY	N-CA-C	6.27	121.45	113.24
1	C	1003	ARG	CA-C-N	-6.27	112.17	120.95
1	C	1003	ARG	C-N-CA	-6.27	112.17	120.95
1	D	888	GLY	CA-C-O	-6.27	115.43	121.83
1	C	1053	HIS	CB-CA-C	-6.27	100.78	110.81
1	F	888	GLY	CA-C-O	-6.27	115.44	121.83
1	A	1465	ARG	N-CA-C	-6.26	105.28	113.17
1	C	1274	GLN	N-CA-C	6.26	118.38	110.24
1	C	716	ILE	N-CA-C	6.26	118.88	111.05
1	C	338	GLY	N-CA-C	6.26	121.44	113.24
1	F	1064	ARG	N-CA-C	-6.26	105.80	113.50
2	G	334	VAL	N-CA-C	-6.26	103.23	111.05
2	H	334	VAL	N-CA-C	-6.26	103.23	111.05
2	J	334	VAL	N-CA-C	-6.26	103.23	111.05
2	L	334	VAL	N-CA-C	-6.26	103.23	111.05
1	A	1003	ARG	CA-C-N	-6.26	112.19	120.95
1	A	1003	ARG	C-N-CA	-6.26	112.19	120.95
1	C	79	PRO	N-CA-C	-6.26	101.27	111.15
1	E	71	LEU	N-CA-CB	-6.26	100.75	110.57
1	B	1064	ARG	N-CA-C	-6.25	105.81	113.50
1	B	369	THR	O-C-N	-6.25	114.91	122.48
1	B	888	GLY	CA-C-O	-6.25	115.45	121.83
1	E	368	GLU	N-CA-CB	6.25	120.90	110.14
1	C	978	GLU	N-CA-C	-6.25	104.47	111.28
1	D	369	THR	O-C-N	-6.25	114.92	122.48
1	F	342	VAL	N-CA-C	6.25	117.78	108.46
1	D	938	PRO	CA-C-O	6.25	129.92	120.05
1	A	978	GLU	N-CA-C	-6.25	104.47	111.28
1	E	836	ALA	CA-C-N	6.25	126.22	120.03

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	836	ALA	C-N-CA	6.25	126.22	120.03
1	E	978	GLU	N-CA-C	-6.25	104.47	111.28
1	F	938	PRO	CA-C-O	6.25	129.92	120.05
1	C	836	ALA	CA-C-N	6.25	126.21	120.03
1	C	836	ALA	C-N-CA	6.25	126.21	120.03
1	B	935	GLY	CA-C-O	6.25	126.82	120.45
1	D	935	GLY	CA-C-O	6.25	126.82	120.45
1	B	683	LEU	CB-CG-CD2	-6.24	91.97	110.70
1	C	368	GLU	N-CA-CB	6.24	120.88	110.14
1	F	935	GLY	CA-C-O	6.24	126.82	120.45
1	A	368	GLU	N-CA-CB	6.24	120.88	110.14
1	A	836	ALA	CA-C-N	6.24	126.21	120.03
1	A	836	ALA	C-N-CA	6.24	126.21	120.03
1	F	573	PHE	N-CA-C	6.24	118.29	108.55
1	F	683	LEU	CB-CG-CD2	-6.24	91.98	110.70
1	B	182	MET	CG-SD-CE	-6.24	87.18	100.90
1	B	938	PRO	CA-C-O	6.24	129.91	120.05
1	B	573	PHE	N-CA-C	6.24	118.28	108.55
1	D	573	PHE	N-CA-C	6.24	118.28	108.55
1	D	1064	ARG	N-CA-C	-6.24	105.83	113.50
1	D	157	LYS	N-CA-C	6.23	118.87	111.33
1	E	1003	ARG	CA-C-N	-6.23	112.22	120.95
1	E	1003	ARG	C-N-CA	-6.23	112.22	120.95
1	B	342	VAL	N-CA-C	6.23	117.74	108.46
1	D	683	LEU	CB-CG-CD2	-6.23	92.01	110.70
1	D	918	THR	N-CA-CB	-6.23	99.94	111.53
1	D	117	ILE	N-CA-CB	-6.23	101.97	112.44
1	D	863	LEU	CB-CA-C	6.23	120.59	109.38
1	B	1437	SER	N-CA-C	6.23	118.43	108.41
1	D	182	MET	CG-SD-CE	-6.23	87.20	100.90
1	E	665	THR	N-CA-CB	-6.23	99.98	111.13
1	F	182	MET	CG-SD-CE	-6.23	87.20	100.90
1	B	157	LYS	N-CA-C	6.22	118.86	111.33
1	F	157	LYS	N-CA-C	6.22	118.86	111.33
1	B	117	ILE	N-CA-CB	-6.22	101.99	112.44
1	B	918	THR	N-CA-CB	-6.22	99.97	111.53
1	D	1437	SER	N-CA-C	6.22	118.42	108.41
1	D	342	VAL	N-CA-C	6.21	117.72	108.46
1	E	109	GLN	CA-C-N	-6.21	112.66	121.23
1	E	109	GLN	C-N-CA	-6.21	112.66	121.23
1	F	1437	SER	N-CA-C	6.21	118.41	108.41
1	A	1338	ALA	N-CA-C	6.21	120.23	107.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	238	LYS	N-CA-C	-6.21	105.56	113.01
1	C	339	ARG	N-CA-CB	-6.21	101.40	110.40
1	F	918	THR	N-CA-CB	-6.21	99.98	111.53
1	C	1338	ALA	N-CA-C	6.21	120.22	107.37
1	E	339	ARG	N-CA-CB	-6.21	101.40	110.40
1	E	1338	ALA	N-CA-C	6.21	120.22	107.37
1	A	665	THR	N-CA-CB	-6.21	100.02	111.13
1	F	117	ILE	N-CA-CB	-6.21	102.02	112.44
1	A	339	ARG	N-CA-CB	-6.20	101.41	110.40
1	F	863	LEU	CB-CA-C	6.20	120.55	109.38
1	C	188	LEU	N-CA-C	-6.20	104.44	111.14
1	C	665	THR	N-CA-CB	-6.20	100.03	111.13
1	C	1410	VAL	N-CA-CB	-6.20	103.11	112.35
1	E	188	LEU	N-CA-C	-6.20	104.44	111.14
1	A	188	LEU	N-CA-C	-6.20	104.44	111.14
1	A	1410	VAL	N-CA-CB	-6.20	103.11	112.35
1	B	863	LEU	CB-CA-C	6.20	120.54	109.38
1	E	376	GLU	N-CA-C	-6.20	103.67	111.11
1	A	109	GLN	CA-C-N	-6.20	112.68	121.23
1	A	109	GLN	C-N-CA	-6.20	112.68	121.23
1	C	109	GLN	CA-C-N	-6.20	112.68	121.23
1	C	109	GLN	C-N-CA	-6.20	112.68	121.23
1	B	1020	ILE	CA-C-N	-6.20	114.51	123.06
1	B	1020	ILE	C-N-CA	-6.20	114.51	123.06
1	D	490	ASP	N-CA-CB	-6.20	100.68	110.28
1	A	238	LYS	N-CA-C	-6.19	105.58	113.01
1	F	1020	ILE	CA-C-N	-6.19	114.52	123.06
1	F	1020	ILE	C-N-CA	-6.19	114.52	123.06
1	B	269	VAL	CB-CA-C	-6.19	103.09	111.63
1	B	490	ASP	N-CA-CB	-6.19	100.69	110.28
1	D	269	VAL	CB-CA-C	-6.19	103.09	111.63
1	F	490	ASP	N-CA-CB	-6.19	100.69	110.28
1	E	1410	VAL	N-CA-CB	-6.19	103.13	112.35
1	C	1307	VAL	CB-CA-C	-6.19	101.71	110.12
2	I	123	VAL	N-CA-C	-6.19	104.47	110.72
2	K	123	VAL	N-CA-C	-6.19	104.47	110.72
1	C	186	GLU	CA-CB-CG	-6.19	101.73	114.10
1	F	269	VAL	CB-CA-C	-6.19	103.09	111.63
1	A	1302	GLY	CA-C-N	-6.18	115.93	122.30
1	A	1302	GLY	C-N-CA	-6.18	115.93	122.30
1	C	1302	GLY	CA-C-N	-6.18	115.93	122.30
1	C	1302	GLY	C-N-CA	-6.18	115.93	122.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	486	ALA	CA-C-N	-6.18	111.81	120.53
1	B	486	ALA	C-N-CA	-6.18	111.81	120.53
1	C	238	LYS	N-CA-C	-6.18	105.59	113.01
1	D	53	LYS	N-CA-C	-6.18	104.23	110.97
1	A	1300	LEU	CA-C-N	-6.18	113.97	122.87
1	A	1300	LEU	C-N-CA	-6.18	113.97	122.87
1	A	1307	VAL	CB-CA-C	-6.18	101.72	110.12
1	C	1300	LEU	CA-C-N	-6.18	113.97	122.87
1	C	1300	LEU	C-N-CA	-6.18	113.97	122.87
1	D	633	ARG	CA-C-N	-6.18	113.96	123.17
1	D	633	ARG	C-N-CA	-6.18	113.96	123.17
1	D	1020	ILE	CA-C-N	-6.18	114.53	123.06
1	D	1020	ILE	C-N-CA	-6.18	114.53	123.06
1	E	1302	GLY	CA-C-N	-6.18	115.94	122.30
1	E	1302	GLY	C-N-CA	-6.18	115.94	122.30
1	F	633	ARG	CA-C-N	-6.18	113.96	123.17
1	F	633	ARG	C-N-CA	-6.18	113.96	123.17
1	E	1300	LEU	CA-C-N	-6.18	113.97	122.87
1	E	1300	LEU	C-N-CA	-6.18	113.97	122.87
1	A	186	GLU	CA-CB-CG	-6.18	101.75	114.10
1	A	376	GLU	N-CA-C	-6.18	103.70	111.11
1	B	633	ARG	CA-C-N	-6.18	113.97	123.17
1	B	633	ARG	C-N-CA	-6.18	113.97	123.17
1	D	228	LEU	N-CA-CB	-6.18	100.94	111.69
1	E	736	ALA	N-CA-C	-6.18	103.27	111.24
1	F	486	ALA	CA-C-N	-6.18	111.82	120.53
1	F	486	ALA	C-N-CA	-6.18	111.82	120.53
1	C	736	ALA	N-CA-C	-6.17	103.28	111.24
1	E	186	GLU	CA-CB-CG	-6.17	101.76	114.10
1	A	736	ALA	N-CA-C	-6.17	103.28	111.24
2	H	379	THR	N-CA-C	-6.17	102.28	109.93
2	L	379	THR	N-CA-C	-6.17	102.28	109.93
1	C	469	VAL	CB-CA-C	-6.17	103.82	112.14
1	E	469	VAL	CB-CA-C	-6.17	103.81	112.14
1	F	228	LEU	N-CA-CB	-6.16	100.97	111.69
1	F	956	LEU	CB-CA-C	-6.16	101.21	110.88
2	H	123	VAL	N-CA-C	-6.16	104.50	110.72
2	L	123	VAL	N-CA-C	-6.16	104.50	110.72
1	F	53	LYS	N-CA-C	-6.16	104.26	110.97
1	F	187	GLN	N-CA-C	6.16	119.74	112.72
2	G	379	THR	N-CA-C	-6.16	102.29	109.93
2	J	379	THR	N-CA-C	-6.16	102.29	109.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	376	GLU	N-CA-C	-6.16	103.72	111.11
1	B	228	LEU	N-CA-CB	-6.16	100.98	111.69
1	E	1307	VAL	CB-CA-C	-6.16	101.75	110.12
2	G	123	VAL	N-CA-C	-6.16	104.50	110.72
2	J	123	VAL	N-CA-C	-6.16	104.50	110.72
1	A	469	VAL	CB-CA-C	-6.15	103.83	112.14
1	B	53	LYS	N-CA-C	-6.15	104.27	110.97
1	F	703	GLY	CA-C-N	6.15	133.29	121.54
1	F	703	GLY	C-N-CA	6.15	133.29	121.54
2	I	379	THR	N-CA-C	-6.15	102.30	109.93
2	K	379	THR	N-CA-C	-6.15	102.30	109.93
1	D	279	THR	N-CA-CB	-6.15	100.47	109.82
1	D	703	GLY	CA-C-N	6.15	133.29	121.54
1	D	703	GLY	C-N-CA	6.15	133.29	121.54
1	B	956	LEU	CB-CA-C	-6.15	101.23	110.88
1	B	279	THR	N-CA-CB	-6.15	100.47	109.82
1	B	703	GLY	CA-C-N	6.15	133.28	121.54
1	B	703	GLY	C-N-CA	6.15	133.28	121.54
1	D	486	ALA	CA-C-N	-6.15	111.86	120.53
1	D	486	ALA	C-N-CA	-6.15	111.86	120.53
1	F	1202	GLN	CA-C-N	6.15	130.27	120.07
1	F	1202	GLN	C-N-CA	6.15	130.27	120.07
1	A	782	ARG	N-CA-C	-6.14	100.84	109.69
1	E	73	VAL	CB-CA-C	-6.14	101.04	110.50
1	A	73	VAL	CB-CA-C	-6.14	101.04	110.50
1	C	292	PRO	CA-C-N	-6.14	112.05	120.28
1	C	292	PRO	C-N-CA	-6.14	112.05	120.28
1	D	1202	GLN	CA-C-N	6.14	130.26	120.07
1	D	1202	GLN	C-N-CA	6.14	130.26	120.07
1	E	782	ARG	N-CA-C	-6.14	100.85	109.69
1	B	1202	GLN	CA-C-N	6.14	130.26	120.07
1	B	1202	GLN	C-N-CA	6.14	130.26	120.07
1	C	228	LEU	CB-CA-C	-6.14	97.24	109.33
1	E	228	LEU	CB-CA-C	-6.14	97.24	109.33
1	D	956	LEU	CB-CA-C	-6.14	101.25	110.88
1	C	73	VAL	CB-CA-C	-6.13	101.05	110.50
1	D	187	GLN	N-CA-C	6.13	119.71	112.72
1	E	292	PRO	CA-C-N	-6.13	112.06	120.28
1	E	292	PRO	C-N-CA	-6.13	112.06	120.28
1	A	228	LEU	CB-CA-C	-6.13	97.26	109.33
1	C	782	ARG	N-CA-C	-6.13	100.87	109.69
1	F	3	VAL	CB-CA-C	-6.13	99.95	110.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	310	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
2	L	310	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
1	A	292	PRO	CA-C-N	-6.12	112.08	120.28
1	A	292	PRO	C-N-CA	-6.12	112.08	120.28
1	B	187	GLN	N-CA-C	6.12	119.70	112.72
1	F	279	THR	N-CA-CB	-6.12	100.52	109.82
1	D	3	VAL	CB-CA-C	-6.11	99.98	110.30
1	C	1228	LYS	N-CA-C	-6.11	100.67	110.14
1	E	491	LYS	N-CA-C	6.11	118.36	108.34
1	A	491	LYS	N-CA-C	6.11	118.35	108.34
1	A	1228	LYS	N-CA-C	-6.11	100.68	110.14
1	B	3	VAL	CB-CA-C	-6.11	99.98	110.30
1	D	350	LEU	N-CA-C	6.10	120.73	113.28
1	B	350	LEU	N-CA-C	6.10	120.72	113.28
2	G	310	ARG	NH1-CZ-NH2	-6.10	111.37	119.30
2	J	310	ARG	NH1-CZ-NH2	-6.10	111.37	119.30
1	E	850	ARG	CA-CB-CG	6.10	126.30	114.10
1	C	746	ILE	CG1-CB-CG2	6.10	128.99	110.70
1	B	1037	SER	CA-C-O	6.09	126.88	119.38
2	I	310	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
2	K	310	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
1	C	836	ALA	N-CA-C	-6.09	101.25	110.39
1	F	350	LEU	N-CA-C	6.09	120.71	113.28
1	A	836	ALA	N-CA-C	-6.09	101.26	110.39
1	C	491	LYS	N-CA-C	6.09	118.33	108.34
1	A	850	ARG	CA-CB-CG	6.09	126.27	114.10
1	A	746	ILE	CG1-CB-CG2	6.08	128.95	110.70
1	E	1228	LYS	N-CA-C	-6.08	100.71	110.14
1	C	250	ARG	CB-CA-C	-6.08	100.11	109.29
1	D	1037	SER	CA-C-O	6.08	126.86	119.38
1	E	296	MET	CA-C-N	-6.08	111.51	120.38
1	E	296	MET	C-N-CA	-6.08	111.51	120.38
1	E	836	ALA	N-CA-C	-6.08	101.27	110.39
1	C	942	GLY	N-CA-C	6.08	120.32	112.54
1	F	1037	SER	CA-C-O	6.08	126.86	119.38
2	I	403	PRO	N-CA-C	6.08	120.45	110.55
2	K	403	PRO	N-CA-C	6.08	120.45	110.55
1	C	850	ARG	CA-CB-CG	6.07	126.24	114.10
2	G	403	PRO	N-CA-C	6.07	120.45	110.55
2	J	403	PRO	N-CA-C	6.07	120.45	110.55
1	A	250	ARG	CB-CA-C	-6.07	100.12	109.29
1	A	413	LEU	N-CA-C	6.07	117.90	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	746	ILE	CG1-CB-CG2	6.07	128.91	110.70
1	E	1062	ARG	NE-CZ-NH2	6.07	124.66	119.20
1	E	448	ARG	CB-CA-C	6.07	121.00	110.68
1	E	413	LEU	N-CA-C	6.07	117.89	111.28
1	A	1062	ARG	NE-CZ-NH2	6.07	124.66	119.20
2	H	212	VAL	N-CA-C	-6.07	101.73	109.80
2	I	212	VAL	N-CA-C	-6.07	101.73	109.80
2	K	212	VAL	N-CA-C	-6.07	101.73	109.80
2	L	212	VAL	N-CA-C	-6.07	101.73	109.80
1	A	448	ARG	CB-CA-C	6.06	120.99	110.68
1	E	942	GLY	N-CA-C	6.06	120.30	112.54
1	C	413	LEU	N-CA-C	6.06	117.89	111.28
1	E	250	ARG	CB-CA-C	-6.06	100.14	109.29
2	G	130	THR	N-CA-C	-6.06	104.76	111.36
2	I	203	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
2	J	130	THR	N-CA-C	-6.06	104.76	111.36
2	K	203	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
1	A	296	MET	CA-C-N	-6.06	111.53	120.38
1	A	296	MET	C-N-CA	-6.06	111.53	120.38
2	H	203	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
2	L	203	ARG	NH1-CZ-NH2	-6.06	111.42	119.30
1	A	942	GLY	N-CA-C	6.05	120.29	112.54
1	D	1214	ARG	N-CA-C	-6.05	105.80	113.43
2	I	130	THR	N-CA-C	-6.05	104.76	111.36
2	K	130	THR	N-CA-C	-6.05	104.76	111.36
1	C	448	ARG	CB-CA-C	6.05	120.97	110.68
1	F	1214	ARG	N-CA-C	-6.05	105.80	113.43
2	G	212	VAL	N-CA-C	-6.05	101.75	109.80
2	J	212	VAL	N-CA-C	-6.05	101.75	109.80
1	A	602	THR	N-CA-CB	-6.05	102.24	110.95
1	D	859	SER	N-CA-C	6.05	119.24	110.28
1	F	1194	GLU	N-CA-CB	6.05	118.51	109.19
2	I	481	GLU	N-CA-CB	-6.05	100.21	110.50
2	K	481	GLU	N-CA-CB	-6.05	100.21	110.50
1	B	1214	ARG	N-CA-C	-6.05	105.81	113.43
1	C	296	MET	CA-C-N	-6.05	111.55	120.38
1	C	296	MET	C-N-CA	-6.05	111.55	120.38
2	G	481	GLU	N-CA-CB	-6.05	100.22	110.50
2	H	353	PHE	CA-CB-CG	-6.05	107.75	113.80
2	H	481	GLU	N-CA-CB	-6.05	100.22	110.50
2	J	481	GLU	N-CA-CB	-6.05	100.22	110.50
2	L	353	PHE	CA-CB-CG	-6.05	107.75	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L	481	GLU	N-CA-CB	-6.05	100.22	110.50
1	B	182	MET	N-CA-CB	-6.05	102.83	110.45
1	B	1194	GLU	N-CA-CB	6.05	118.50	109.19
1	D	1252	ARG	N-CA-C	6.05	119.49	111.75
2	G	353	PHE	CA-CB-CG	-6.05	107.75	113.80
2	H	130	THR	N-CA-C	-6.05	104.77	111.36
2	J	353	PHE	CA-CB-CG	-6.05	107.75	113.80
2	L	130	THR	N-CA-C	-6.05	104.77	111.36
2	I	353	PHE	CA-CB-CG	-6.04	107.75	113.80
2	K	353	PHE	CA-CB-CG	-6.04	107.75	113.80
1	D	626	ALA	CA-C-N	-6.04	112.18	120.46
1	D	626	ALA	C-N-CA	-6.04	112.18	120.46
1	F	182	MET	N-CA-CB	-6.04	102.83	110.45
1	F	816	GLN	N-CA-C	-6.04	104.02	111.33
1	A	46	ILE	N-CA-C	-6.04	99.99	108.27
2	G	203	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
2	H	403	PRO	N-CA-C	6.04	120.40	110.55
2	J	203	ARG	NH1-CZ-NH2	-6.04	111.45	119.30
2	L	403	PRO	N-CA-C	6.04	120.40	110.55
1	C	1377	GLY	N-CA-C	6.04	118.72	110.69
2	G	114	THR	N-CA-C	-6.04	104.61	111.07
2	J	114	THR	N-CA-C	-6.04	104.61	111.07
1	A	1294	ASP	N-CA-C	6.04	118.34	110.43
1	B	859	SER	N-CA-C	6.04	119.22	110.28
1	C	46	ILE	N-CA-C	-6.04	100.00	108.27
1	E	46	ILE	N-CA-C	-6.04	100.00	108.27
1	F	859	SER	N-CA-C	6.04	119.22	110.28
2	I	114	THR	N-CA-C	-6.04	104.61	111.07
2	K	114	THR	N-CA-C	-6.04	104.61	111.07
1	C	1062	ARG	NE-CZ-NH2	6.04	124.63	119.20
1	D	182	MET	N-CA-CB	-6.04	102.84	110.45
1	E	50	VAL	CB-CA-C	-6.04	100.37	111.36
1	E	1294	ASP	N-CA-C	6.04	118.34	110.43
1	E	1377	GLY	N-CA-C	6.04	118.72	110.69
2	H	114	THR	N-CA-C	-6.04	104.61	111.07
2	L	114	THR	N-CA-C	-6.04	104.61	111.07
1	A	1377	GLY	N-CA-C	6.03	118.72	110.69
1	B	816	GLN	N-CA-C	-6.03	104.03	111.33
1	C	1294	ASP	N-CA-C	6.03	118.33	110.43
1	D	848	ALA	CA-C-N	-6.03	112.82	120.60
1	D	848	ALA	C-N-CA	-6.03	112.82	120.60
1	D	1110	SER	N-CA-C	6.03	120.37	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	1194	GLU	N-CA-CB	6.03	118.48	109.19
1	A	50	VAL	CB-CA-C	-6.03	100.39	111.36
1	B	192	TYR	CB-CA-C	-6.03	101.80	111.02
1	F	1252	ARG	N-CA-C	6.03	119.47	111.75
1	B	626	ALA	CA-C-N	-6.03	112.21	120.46
1	B	626	ALA	C-N-CA	-6.03	112.21	120.46
1	D	816	GLN	N-CA-C	-6.03	104.04	111.33
1	B	1110	SER	N-CA-C	6.02	120.36	112.89
1	B	1252	ARG	N-CA-C	6.02	119.46	111.75
1	C	50	VAL	CB-CA-C	-6.02	100.40	111.36
1	B	645	ARG	N-CA-C	-6.02	98.60	108.41
1	F	645	ARG	N-CA-C	-6.02	98.60	108.41
1	F	1110	SER	N-CA-C	6.02	120.35	112.89
1	D	192	TYR	CB-CA-C	-6.02	101.81	111.02
1	E	602	THR	N-CA-CB	-6.02	102.29	110.95
1	C	602	THR	N-CA-CB	-6.02	102.29	110.95
1	B	848	ALA	CA-C-N	-6.01	112.84	120.60
1	B	848	ALA	C-N-CA	-6.01	112.84	120.60
1	D	645	ARG	N-CA-C	-6.01	98.61	108.41
1	E	1156	ARG	N-CA-C	-6.01	105.25	112.59
1	F	192	TYR	CB-CA-C	-6.01	101.82	111.02
1	D	487	VAL	N-CA-CB	6.01	117.99	110.47
1	D	91	CYS	CA-CB-SG	-6.01	100.57	114.40
1	C	1156	ARG	N-CA-C	-6.01	105.26	112.59
1	B	91	CYS	CA-CB-SG	-6.01	100.58	114.40
1	F	91	CYS	CA-CB-SG	-6.01	100.58	114.40
2	H	146	LEU	N-CA-C	6.01	117.50	111.07
2	L	146	LEU	N-CA-C	6.01	117.50	111.07
1	F	917	VAL	CB-CA-C	6.00	117.72	111.23
1	A	1156	ARG	N-CA-C	-6.00	105.27	112.59
1	C	1064	ARG	NE-CZ-NH1	-6.00	115.50	121.50
1	F	626	ALA	CA-C-N	-6.00	112.24	120.46
1	F	626	ALA	C-N-CA	-6.00	112.24	120.46
1	D	1201	LEU	CA-C-N	-6.00	113.17	122.59
1	D	1201	LEU	C-N-CA	-6.00	113.17	122.59
2	G	345	ILE	CA-C-N	-6.00	111.87	121.58
2	G	345	ILE	C-N-CA	-6.00	111.87	121.58
2	J	345	ILE	CA-C-N	-6.00	111.87	121.58
2	J	345	ILE	C-N-CA	-6.00	111.87	121.58
1	B	487	VAL	N-CA-CB	6.00	117.96	110.47
2	G	146	LEU	N-CA-C	5.99	117.48	111.07
2	J	146	LEU	N-CA-C	5.99	117.48	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	836	ALA	CA-C-N	5.99	125.93	119.76
1	F	836	ALA	C-N-CA	5.99	125.93	119.76
1	E	291	ALA	O-C-N	5.99	124.40	120.27
1	F	1201	LEU	CA-C-N	-5.99	113.18	122.59
1	F	1201	LEU	C-N-CA	-5.99	113.18	122.59
2	H	345	ILE	CA-C-N	-5.99	111.88	121.58
2	H	345	ILE	C-N-CA	-5.99	111.88	121.58
2	L	345	ILE	CA-C-N	-5.99	111.88	121.58
2	L	345	ILE	C-N-CA	-5.99	111.88	121.58
1	B	1201	LEU	CA-C-N	-5.99	113.19	122.59
1	B	1201	LEU	C-N-CA	-5.99	113.19	122.59
1	F	487	VAL	N-CA-CB	5.99	117.95	110.47
1	F	1405	ILE	N-CA-C	5.99	117.78	109.45
1	B	917	VAL	CB-CA-C	5.98	117.69	111.23
2	I	345	ILE	CA-C-N	-5.98	111.89	121.58
2	I	345	ILE	C-N-CA	-5.98	111.89	121.58
2	K	345	ILE	CA-C-N	-5.98	111.89	121.58
2	K	345	ILE	C-N-CA	-5.98	111.89	121.58
1	D	650	LEU	N-CA-C	5.98	120.14	112.12
1	C	918	THR	N-CA-CB	-5.98	100.41	111.53
1	B	624	THR	OG1-CB-CG2	-5.98	97.34	109.30
1	E	918	THR	N-CA-CB	-5.98	100.41	111.53
1	F	848	ALA	CA-C-N	-5.98	112.89	120.60
1	F	848	ALA	C-N-CA	-5.98	112.89	120.60
1	A	918	THR	N-CA-CB	-5.97	100.42	111.53
1	A	1064	ARG	NE-CZ-NH1	-5.97	115.53	121.50
1	B	836	ALA	CA-C-N	5.97	125.91	119.76
1	B	836	ALA	C-N-CA	5.97	125.91	119.76
1	D	531	ASN	N-CA-C	5.97	118.86	107.75
1	F	487	VAL	CB-CA-C	-5.97	104.21	112.04
1	A	291	ALA	O-C-N	5.97	124.39	120.27
1	A	1062	ARG	NE-CZ-NH1	-5.97	115.53	121.50
1	B	1405	ILE	N-CA-C	5.97	117.75	109.45
1	E	577	GLY	N-CA-C	5.97	127.33	113.18
2	I	146	LEU	N-CA-C	5.97	117.46	111.07
2	K	146	LEU	N-CA-C	5.97	117.46	111.07
1	A	1434	GLU	N-CA-C	5.97	117.87	111.36
1	E	275	GLY	N-CA-C	-5.97	105.57	112.50
1	E	1064	ARG	NE-CZ-NH1	-5.97	115.53	121.50
1	C	1113	CYS	CA-C-O	5.97	123.74	119.32
1	D	624	THR	OG1-CB-CG2	-5.97	97.36	109.30
1	F	624	THR	OG1-CB-CG2	-5.97	97.36	109.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	275	GLY	N-CA-C	-5.97	105.58	112.50
1	F	650	LEU	N-CA-C	5.97	120.11	112.12
2	H	181	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
2	L	181	ARG	NH1-CZ-NH2	-5.97	111.54	119.30
1	B	937	LYS	CA-C-N	5.96	125.44	119.24
1	B	937	LYS	C-N-CA	5.96	125.44	119.24
1	B	531	ASN	N-CA-C	5.96	118.84	107.75
1	F	1311	THR	N-CA-C	-5.96	105.11	112.38
1	B	487	VAL	CB-CA-C	-5.96	104.23	112.04
1	E	1062	ARG	NE-CZ-NH1	-5.96	115.54	121.50
1	C	275	GLY	N-CA-C	-5.96	105.59	112.50
1	D	1405	ILE	N-CA-C	5.96	117.73	109.45
1	D	487	VAL	CB-CA-C	-5.96	104.24	112.04
1	D	836	ALA	CA-C-N	5.96	125.89	119.76
1	D	836	ALA	C-N-CA	5.96	125.89	119.76
1	F	531	ASN	N-CA-C	5.96	118.83	107.75
2	G	181	ARG	NH1-CZ-NH2	-5.96	111.56	119.30
2	J	181	ARG	NH1-CZ-NH2	-5.96	111.56	119.30
1	A	577	GLY	N-CA-C	5.95	127.29	113.18
1	B	650	LEU	N-CA-C	5.95	120.10	112.12
2	I	181	ARG	NH1-CZ-NH2	-5.95	111.56	119.30
2	K	181	ARG	NH1-CZ-NH2	-5.95	111.56	119.30
1	E	1434	GLU	N-CA-C	5.95	117.85	111.36
1	A	1113	CYS	CA-C-O	5.95	123.72	119.32
1	D	392	ALA	N-CA-C	5.95	118.33	108.99
1	A	478	SER	N-CA-C	5.95	117.28	108.60
1	C	577	GLY	N-CA-C	5.95	127.27	113.18
1	C	291	ALA	O-C-N	5.94	124.37	120.27
1	C	478	SER	N-CA-C	5.94	117.28	108.60
1	C	1434	GLU	N-CA-C	5.94	117.84	111.36
1	D	917	VAL	CB-CA-C	5.94	117.65	111.23
1	D	1311	THR	N-CA-C	-5.94	105.13	112.38
1	B	1311	THR	N-CA-C	-5.94	105.13	112.38
1	F	392	ALA	N-CA-C	5.94	118.32	108.99
2	H	148	LEU	N-CA-C	-5.94	102.53	110.55
2	I	148	LEU	N-CA-C	-5.94	102.53	110.55
2	K	148	LEU	N-CA-C	-5.94	102.53	110.55
2	L	148	LEU	N-CA-C	-5.94	102.53	110.55
1	C	1062	ARG	NE-CZ-NH1	-5.94	115.56	121.50
2	G	148	LEU	N-CA-C	-5.94	102.54	110.55
2	J	148	LEU	N-CA-C	-5.94	102.54	110.55
1	E	478	SER	N-CA-C	5.93	117.27	108.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1468	VAL	CB-CA-C	-5.93	100.57	111.36
1	F	937	LYS	CA-C-N	5.93	125.40	119.24
1	F	937	LYS	C-N-CA	5.93	125.40	119.24
2	G	43	GLN	CB-CG-CD	-5.93	102.53	112.60
2	J	43	GLN	CB-CG-CD	-5.93	102.53	112.60
1	A	1468	VAL	CB-CA-C	-5.92	100.58	111.36
2	H	43	GLN	CB-CG-CD	-5.92	102.53	112.60
2	L	43	GLN	CB-CG-CD	-5.92	102.53	112.60
1	B	392	ALA	N-CA-C	5.92	118.29	108.99
1	C	1468	VAL	CB-CA-C	-5.92	100.58	111.36
1	D	937	LYS	CA-C-N	5.92	125.39	119.24
1	D	937	LYS	C-N-CA	5.92	125.39	119.24
2	I	43	GLN	CB-CG-CD	-5.92	102.54	112.60
2	K	43	GLN	CB-CG-CD	-5.92	102.54	112.60
1	D	236	THR	N-CA-CB	-5.92	101.56	110.91
2	I	332	ARG	NH1-CZ-NH2	-5.92	111.61	119.30
2	K	332	ARG	NH1-CZ-NH2	-5.92	111.61	119.30
1	B	71	LEU	N-CA-CB	-5.91	101.33	110.56
2	G	202	ARG	NH1-CZ-NH2	-5.91	111.61	119.30
2	I	202	ARG	NH1-CZ-NH2	-5.91	111.61	119.30
2	J	202	ARG	NH1-CZ-NH2	-5.91	111.61	119.30
2	K	202	ARG	NH1-CZ-NH2	-5.91	111.61	119.30
2	G	332	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
2	H	257	ASN	CB-CG-OD1	-5.91	108.98	120.80
2	J	332	ARG	NH1-CZ-NH2	-5.91	111.62	119.30
2	L	257	ASN	CB-CG-OD1	-5.91	108.98	120.80
1	E	1113	CYS	CA-C-O	5.91	123.69	119.32
1	F	1168	LEU	CB-CA-C	-5.90	100.70	110.14
2	I	167	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
2	K	167	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
1	F	1056	LEU	CB-CG-CD1	-5.90	93.00	110.70
2	H	202	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
2	L	202	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
1	C	775	VAL	CB-CA-C	-5.90	104.30	112.02
1	D	71	LEU	N-CA-CB	-5.89	101.37	110.56
2	G	257	ASN	CB-CG-OD1	-5.89	109.01	120.80
2	J	257	ASN	CB-CG-OD1	-5.89	109.01	120.80
1	B	1056	LEU	CB-CG-CD1	-5.89	93.03	110.70
1	F	71	LEU	N-CA-CB	-5.89	101.37	110.56
1	A	775	VAL	CB-CA-C	-5.89	104.30	112.02
1	E	193	PRO	N-CD-CG	-5.89	94.37	103.20
1	A	300	PRO	N-CA-C	-5.89	102.62	111.57

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	236	THR	N-CA-CB	-5.89	101.61	110.91
2	H	332	ARG	NH1-CZ-NH2	-5.89	111.65	119.30
2	L	332	ARG	NH1-CZ-NH2	-5.89	111.65	119.30
1	C	300	PRO	N-CA-C	-5.88	102.62	111.57
1	B	1168	LEU	CB-CA-C	-5.88	100.73	110.14
1	F	236	THR	N-CA-CB	-5.88	101.62	110.91
1	C	193	PRO	N-CD-CG	-5.88	94.38	103.20
1	E	269	VAL	N-CA-C	5.88	119.07	109.78
1	E	300	PRO	N-CA-C	-5.88	102.64	111.57
2	I	257	ASN	CB-CG-OD1	-5.88	109.04	120.80
2	K	257	ASN	CB-CG-OD1	-5.88	109.04	120.80
1	D	1168	LEU	CB-CA-C	-5.88	100.74	110.14
1	A	386	GLY	N-CA-C	-5.87	100.36	112.34
1	D	1056	LEU	CB-CG-CD1	-5.87	93.08	110.70
1	E	386	GLY	N-CA-C	-5.87	100.36	112.34
1	A	193	PRO	N-CD-CG	-5.87	94.40	103.20
1	C	386	GLY	N-CA-C	-5.87	100.37	112.34
1	E	775	VAL	CB-CA-C	-5.87	104.33	112.02
1	B	732	ARG	CG-CD-NE	-5.87	99.09	112.00
1	F	377	THR	N-CA-CB	-5.87	100.57	110.49
1	D	1369	THR	N-CA-CB	-5.87	101.75	111.49
1	D	732	ARG	CG-CD-NE	-5.86	99.10	112.00
1	F	732	ARG	CG-CD-NE	-5.86	99.10	112.00
1	A	269	VAL	N-CA-C	5.86	119.04	109.78
1	B	1369	THR	N-CA-CB	-5.86	101.76	111.49
1	D	1381	ASP	N-CA-C	5.86	123.28	110.80
1	F	36	ALA	N-CA-C	-5.86	105.02	111.82
1	B	36	ALA	N-CA-C	-5.86	105.03	111.82
1	B	941	GLY	N-CA-C	5.86	127.06	113.18
1	F	202	SER	N-CA-C	5.86	117.42	108.52
1	F	264	LYS	N-CA-C	5.86	118.00	110.39
1	F	948	LYS	CB-CG-CD	-5.86	97.83	111.30
1	F	1369	THR	N-CA-CB	-5.86	101.77	111.49
1	C	1264	ILE	N-CA-C	-5.85	99.06	107.78
1	D	202	SER	N-CA-C	5.85	117.42	108.52
1	D	948	LYS	CB-CG-CD	-5.85	97.84	111.30
1	A	1264	ILE	N-CA-C	-5.85	99.06	107.78
1	B	264	LYS	N-CA-C	5.85	118.00	110.39
1	C	269	VAL	N-CA-C	5.85	119.03	109.78
1	D	36	ALA	N-CA-C	-5.85	105.03	111.82
2	G	167	ARG	NH1-CZ-NH2	-5.85	111.69	119.30
2	J	167	ARG	NH1-CZ-NH2	-5.85	111.69	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1112	THR	CA-C-N	-5.85	114.02	121.74
1	B	1112	THR	C-N-CA	-5.85	114.02	121.74
1	B	377	THR	N-CA-CB	-5.85	100.60	110.49
1	B	1381	ASP	N-CA-C	5.85	123.26	110.80
1	A	331	ALA	N-CA-C	5.85	117.14	107.20
1	B	948	LYS	CB-CG-CD	-5.85	97.85	111.30
1	C	331	ALA	N-CA-C	5.85	117.14	107.20
1	C	738	HIS	CB-CA-C	-5.85	100.29	110.17
1	D	377	THR	N-CA-CB	-5.85	100.61	110.49
1	E	331	ALA	N-CA-C	5.85	117.14	107.20
2	H	167	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
2	L	167	ARG	NH1-CZ-NH2	-5.85	111.70	119.30
1	D	1112	THR	CA-C-N	-5.84	114.02	121.74
1	D	1112	THR	C-N-CA	-5.84	114.02	121.74
1	F	1112	THR	CA-C-N	-5.84	114.03	121.74
1	F	1112	THR	C-N-CA	-5.84	114.03	121.74
1	A	738	HIS	CB-CA-C	-5.84	100.30	110.17
1	D	264	LYS	N-CA-C	5.84	117.99	110.39
1	E	164	ILE	N-CA-C	5.84	116.72	108.36
1	E	738	HIS	CB-CA-C	-5.84	100.30	110.17
1	E	1264	ILE	N-CA-C	-5.84	99.08	107.78
1	A	164	ILE	N-CA-C	5.84	116.71	108.36
2	I	252	GLY	N-CA-C	-5.84	101.86	111.38
2	K	252	GLY	N-CA-C	-5.84	101.86	111.38
1	D	941	GLY	N-CA-C	5.84	127.01	113.18
1	F	938	PRO	CB-CA-C	-5.84	103.34	113.20
1	B	202	SER	N-CA-C	5.83	117.39	108.52
1	F	941	GLY	N-CA-C	5.83	127.01	113.18
1	C	164	ILE	N-CA-C	5.83	116.70	108.36
1	F	1381	ASP	N-CA-C	5.83	123.22	110.80
2	H	252	GLY	N-CA-C	-5.83	101.88	111.38
2	L	252	GLY	N-CA-C	-5.83	101.88	111.38
1	B	938	PRO	CB-CA-C	-5.83	103.35	113.20
2	G	114	THR	CB-CA-C	-5.83	101.73	110.88
2	J	114	THR	CB-CA-C	-5.83	101.73	110.88
1	B	1061	LEU	CA-C-O	5.83	125.31	118.90
1	D	647	ALA	N-CA-C	-5.83	103.65	112.04
1	D	938	PRO	CB-CA-C	-5.83	103.36	113.20
1	F	774	PRO	CA-C-N	-5.83	113.77	120.88
1	F	774	PRO	C-N-CA	-5.83	113.77	120.88
2	G	252	GLY	N-CA-C	-5.83	101.89	111.38
2	J	252	GLY	N-CA-C	-5.83	101.89	111.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	1061	LEU	CA-C-O	5.82	125.31	118.90
1	D	774	PRO	CA-C-N	-5.82	113.78	120.88
1	D	774	PRO	C-N-CA	-5.82	113.78	120.88
1	F	1061	LEU	CA-C-O	5.82	125.30	118.90
1	F	1407	ASP	CB-CA-C	-5.82	98.84	110.42
2	H	114	THR	CB-CA-C	-5.82	101.74	110.88
2	L	114	THR	CB-CA-C	-5.82	101.74	110.88
1	B	214	ASN	CB-CA-C	-5.82	97.89	111.09
1	F	214	ASN	CB-CA-C	-5.82	97.89	111.09
1	D	214	ASN	CB-CA-C	-5.81	97.89	111.09
1	D	1075	THR	N-CA-CB	-5.81	101.95	111.66
2	I	114	THR	CB-CA-C	-5.81	101.75	110.88
2	K	114	THR	CB-CA-C	-5.81	101.75	110.88
1	A	1321	THR	OG1-CB-CG2	-5.81	97.68	109.30
1	D	1407	ASP	CB-CA-C	-5.81	98.86	110.42
1	E	1118	CYS	CB-CA-C	5.81	120.67	112.07
1	E	1321	THR	OG1-CB-CG2	-5.81	97.68	109.30
1	F	994	ALA	N-CA-C	5.81	119.07	110.48
1	B	774	PRO	CA-C-N	-5.80	113.80	120.88
1	B	774	PRO	C-N-CA	-5.80	113.80	120.88
1	B	1407	ASP	CB-CA-C	-5.80	98.87	110.42
1	D	463	LEU	N-CA-C	5.80	117.61	111.28
1	F	1074	LYS	CB-CA-C	-5.80	99.89	109.99
1	B	647	ALA	N-CA-C	-5.80	103.69	112.04
1	F	463	LEU	N-CA-C	5.80	117.60	111.28
1	F	1466	LEU	CB-CG-CD1	-5.80	93.30	110.70
1	B	994	ALA	N-CA-C	5.80	119.06	110.48
1	D	1074	LYS	CB-CA-C	-5.80	99.90	109.99
1	B	1075	THR	N-CA-CB	-5.80	101.98	111.66
1	B	1466	LEU	CB-CG-CD1	-5.80	93.31	110.70
1	D	994	ALA	N-CA-C	5.80	119.06	110.48
1	D	1466	LEU	CB-CG-CD1	-5.80	93.31	110.70
1	E	869	GLY	CA-C-N	-5.80	112.91	120.44
1	E	869	GLY	C-N-CA	-5.80	112.91	120.44
1	A	869	GLY	CA-C-N	-5.79	112.91	120.44
1	A	869	GLY	C-N-CA	-5.79	112.91	120.44
1	B	1074	LYS	CB-CA-C	-5.79	99.91	109.99
1	F	1031	GLY	N-CA-C	-5.79	107.48	114.66
1	C	1321	THR	OG1-CB-CG2	-5.79	97.72	109.30
1	B	1031	GLY	N-CA-C	-5.79	107.48	114.66
1	F	764	THR	CA-C-N	-5.79	113.57	122.60
1	F	764	THR	C-N-CA	-5.79	113.57	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	220	VAL	N-CA-C	-5.79	99.24	107.98
2	J	220	VAL	N-CA-C	-5.79	99.24	107.98
1	A	640	THR	CB-CA-C	-5.79	97.77	110.67
2	H	220	VAL	N-CA-C	-5.79	99.24	107.98
2	L	220	VAL	N-CA-C	-5.79	99.24	107.98
2	I	190	ILE	N-CA-C	-5.79	103.28	108.95
2	K	190	ILE	N-CA-C	-5.79	103.28	108.95
1	B	463	LEU	N-CA-C	5.78	117.58	111.28
1	B	862	ALA	N-CA-C	-5.78	104.33	111.33
1	E	640	THR	CB-CA-C	-5.78	97.77	110.67
2	I	220	VAL	N-CA-C	-5.78	99.25	107.98
2	K	220	VAL	N-CA-C	-5.78	99.25	107.98
1	A	1118	CYS	CB-CA-C	5.78	120.63	112.07
1	D	764	THR	CA-C-N	-5.78	113.58	122.60
1	D	764	THR	C-N-CA	-5.78	113.58	122.60
2	I	324	ARG	NH1-CZ-NH2	-5.78	111.78	119.30
2	K	324	ARG	NH1-CZ-NH2	-5.78	111.78	119.30
1	B	764	THR	CA-C-N	-5.78	113.59	122.60
1	B	764	THR	C-N-CA	-5.78	113.59	122.60
1	C	1118	CYS	CB-CA-C	5.78	120.62	112.07
1	E	661	VAL	N-CA-C	-5.78	97.32	109.34
1	F	862	ALA	N-CA-C	-5.78	104.34	111.33
1	F	1075	THR	N-CA-CB	-5.78	102.01	111.66
2	H	324	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
2	L	324	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
1	C	640	THR	CB-CA-C	-5.78	97.79	110.67
1	F	647	ALA	N-CA-C	-5.78	103.72	112.04
2	G	324	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
2	J	324	ARG	NH1-CZ-NH2	-5.78	111.79	119.30
2	I	178	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
2	K	178	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
1	A	661	VAL	N-CA-C	-5.77	97.34	109.34
1	E	575	VAL	CB-CA-C	-5.77	105.98	111.06
1	D	862	ALA	N-CA-C	-5.77	104.35	111.33
2	H	190	ILE	N-CA-C	-5.77	103.30	108.95
2	I	46	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
2	K	46	ARG	NH1-CZ-NH2	-5.77	111.80	119.30
2	L	190	ILE	N-CA-C	-5.77	103.30	108.95
1	D	1031	GLY	N-CA-C	-5.77	107.51	114.66
1	C	661	VAL	N-CA-C	-5.76	97.35	109.34
1	D	1184	ASN	O-C-N	5.76	124.25	120.27
2	G	46	ARG	NH1-CZ-NH2	-5.76	111.81	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	J	46	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
2	G	190	ILE	N-CA-C	-5.76	103.30	108.95
2	J	190	ILE	N-CA-C	-5.76	103.30	108.95
1	C	869	GLY	CA-C-N	-5.76	112.95	120.44
1	C	869	GLY	C-N-CA	-5.76	112.95	120.44
2	H	46	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
2	H	178	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
2	L	46	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
2	L	178	ARG	NH1-CZ-NH2	-5.76	111.81	119.30
1	A	575	VAL	CB-CA-C	-5.76	105.99	111.06
1	B	1184	ASN	O-C-N	5.76	124.24	120.27
2	I	410	PHE	CA-CB-CG	-5.76	108.04	113.80
2	K	410	PHE	CA-CB-CG	-5.76	108.04	113.80
2	H	410	PHE	CA-CB-CG	-5.75	108.05	113.80
2	L	410	PHE	CA-CB-CG	-5.75	108.05	113.80
2	I	476	VAL	N-CA-C	-5.75	99.48	108.86
2	K	476	VAL	N-CA-C	-5.75	99.48	108.86
1	F	1184	ASN	O-C-N	5.75	124.24	120.27
2	G	476	VAL	N-CA-C	-5.75	99.48	108.86
2	I	190	ILE	CA-C-N	5.75	125.70	119.78
2	I	190	ILE	C-N-CA	5.75	125.70	119.78
2	J	476	VAL	N-CA-C	-5.75	99.48	108.86
2	K	190	ILE	CA-C-N	5.75	125.70	119.78
2	K	190	ILE	C-N-CA	5.75	125.70	119.78
1	A	1254	PHE	N-CA-C	-5.75	106.06	114.39
1	D	1091	GLY	CA-C-N	-5.75	115.29	123.10
1	D	1091	GLY	C-N-CA	-5.75	115.29	123.10
2	G	178	ARG	NH1-CZ-NH2	-5.74	111.83	119.30
2	H	476	VAL	N-CA-C	-5.74	99.50	108.86
2	I	413	PRO	CA-C-N	5.74	132.04	121.70
2	I	413	PRO	C-N-CA	5.74	132.04	121.70
2	J	178	ARG	NH1-CZ-NH2	-5.74	111.83	119.30
2	K	413	PRO	CA-C-N	5.74	132.04	121.70
2	K	413	PRO	C-N-CA	5.74	132.04	121.70
2	L	476	VAL	N-CA-C	-5.74	99.50	108.86
2	G	410	PHE	CA-CB-CG	-5.74	108.06	113.80
2	J	410	PHE	CA-CB-CG	-5.74	108.06	113.80
1	A	545	LEU	CA-CB-CG	-5.74	96.23	116.30
2	H	76	ARG	NH1-CZ-NH2	-5.73	111.84	119.30
2	L	76	ARG	NH1-CZ-NH2	-5.73	111.84	119.30
1	B	828	LEU	CA-C-N	-5.73	114.91	122.99
1	B	828	LEU	C-N-CA	-5.73	114.91	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	838	VAL	CB-CA-C	-5.73	100.93	111.36
2	H	428	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
2	L	428	ARG	NH1-CZ-NH2	-5.73	111.85	119.30
1	C	545	LEU	CA-CB-CG	-5.73	96.25	116.30
2	H	190	ILE	CA-C-N	5.73	125.68	119.78
2	H	190	ILE	C-N-CA	5.73	125.68	119.78
2	L	190	ILE	CA-C-N	5.73	125.68	119.78
2	L	190	ILE	C-N-CA	5.73	125.68	119.78
2	H	413	PRO	CA-C-N	5.73	132.01	121.70
2	H	413	PRO	C-N-CA	5.73	132.01	121.70
2	L	413	PRO	CA-C-N	5.73	132.01	121.70
2	L	413	PRO	C-N-CA	5.73	132.01	121.70
1	C	1254	PHE	N-CA-C	-5.72	106.09	114.39
1	D	456	LEU	CB-CG-CD2	-5.72	93.53	110.70
1	D	828	LEU	CA-C-N	-5.72	114.92	122.99
1	D	828	LEU	C-N-CA	-5.72	114.92	122.99
1	E	545	LEU	CA-CB-CG	-5.72	96.26	116.30
1	B	456	LEU	CB-CG-CD2	-5.72	93.53	110.70
2	G	190	ILE	CA-C-N	5.72	125.67	119.78
2	G	190	ILE	C-N-CA	5.72	125.67	119.78
2	G	413	PRO	CA-C-N	5.72	132.00	121.70
2	G	413	PRO	C-N-CA	5.72	132.00	121.70
2	J	190	ILE	CA-C-N	5.72	125.67	119.78
2	J	190	ILE	C-N-CA	5.72	125.67	119.78
2	J	413	PRO	CA-C-N	5.72	132.00	121.70
2	J	413	PRO	C-N-CA	5.72	132.00	121.70
1	B	838	VAL	CB-CA-C	-5.72	100.95	111.36
1	C	575	VAL	CB-CA-C	-5.72	106.03	111.06
1	E	1254	PHE	N-CA-C	-5.72	106.09	114.39
1	F	456	LEU	CB-CG-CD2	-5.72	93.54	110.70
1	F	828	LEU	CA-C-N	-5.72	114.92	122.99
1	F	828	LEU	C-N-CA	-5.72	114.92	122.99
2	G	34	ARG	NH1-CZ-NH2	-5.72	111.86	119.30
2	H	34	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
2	I	428	ARG	NH1-CZ-NH2	-5.72	111.86	119.30
2	J	34	ARG	NH1-CZ-NH2	-5.72	111.86	119.30
2	K	428	ARG	NH1-CZ-NH2	-5.72	111.86	119.30
2	L	34	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
1	F	1091	GLY	CA-C-N	-5.72	115.32	123.10
1	F	1091	GLY	C-N-CA	-5.72	115.32	123.10
2	H	458	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
2	I	76	ARG	NH1-CZ-NH2	-5.72	111.87	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	K	76	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
2	L	458	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
1	D	339	ARG	N-CA-CB	-5.72	102.99	110.59
2	G	76	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
2	J	76	ARG	NH1-CZ-NH2	-5.72	111.87	119.30
1	B	339	ARG	N-CA-CB	-5.71	102.99	110.59
1	B	441	ASP	CA-C-N	-5.71	113.84	122.81
1	B	441	ASP	C-N-CA	-5.71	113.84	122.81
1	E	110	VAL	CB-CA-C	-5.71	105.62	110.94
1	F	838	VAL	CB-CA-C	-5.71	100.96	111.36
2	I	34	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
2	K	34	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
1	B	1091	GLY	CA-C-N	-5.71	115.33	123.10
1	B	1091	GLY	C-N-CA	-5.71	115.33	123.10
2	G	322	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
2	I	322	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
2	J	322	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
2	K	322	ARG	NH1-CZ-NH2	-5.71	111.87	119.30
2	G	458	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	J	458	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	F	441	ASP	CA-C-N	-5.71	113.85	122.81
1	F	441	ASP	C-N-CA	-5.71	113.85	122.81
2	G	428	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	H	96	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	I	455	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	J	428	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	K	455	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	L	96	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	C	1037	SER	CA-C-N	-5.71	112.38	121.34
1	C	1037	SER	C-N-CA	-5.71	112.38	121.34
2	G	96	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	H	455	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	I	445	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	J	96	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	K	445	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	L	455	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	C	1196	ALA	CA-C-N	-5.71	114.95	122.99
1	C	1196	ALA	C-N-CA	-5.71	114.95	122.99
1	F	1164	ARG	NE-CZ-NH1	-5.71	115.80	121.50
2	G	445	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
2	J	445	ARG	NH1-CZ-NH2	-5.71	111.88	119.30
1	E	1196	ALA	CA-C-N	-5.70	114.95	122.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1196	ALA	C-N-CA	-5.70	114.95	122.99
1	E	1303	GLY	N-CA-C	-5.70	103.57	112.58
1	F	992	PRO	N-CD-CG	-5.70	94.65	103.20
1	A	110	VAL	CB-CA-C	-5.70	105.64	110.94
1	A	1037	SER	CA-C-N	-5.70	112.39	121.34
1	A	1037	SER	C-N-CA	-5.70	112.39	121.34
1	A	1196	ALA	CA-C-N	-5.70	114.95	122.99
1	A	1196	ALA	C-N-CA	-5.70	114.95	122.99
1	C	858	MET	N-CA-C	-5.70	98.80	108.26
2	G	144	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
2	J	144	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
1	F	339	ARG	N-CA-CB	-5.70	103.01	110.59
2	I	96	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
2	K	96	ARG	NH1-CZ-NH2	-5.70	111.89	119.30
2	G	455	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
2	H	322	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
2	J	455	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
2	L	322	ARG	NH1-CZ-NH2	-5.70	111.90	119.30
1	B	233	GLU	CA-C-N	-5.69	115.13	123.10
1	B	233	GLU	C-N-CA	-5.69	115.13	123.10
2	H	144	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
2	L	144	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
1	B	602	THR	N-CA-CB	-5.69	102.28	110.65
1	C	354	ARG	CG-CD-NE	-5.69	99.48	112.00
2	H	377	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
2	I	144	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
2	I	366	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
2	K	144	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
2	K	366	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
2	L	377	ARG	NH1-CZ-NH2	-5.69	111.90	119.30
1	C	957	ARG	N-CA-C	5.69	120.08	113.20
1	C	1443	ILE	N-CA-C	-5.69	103.98	111.09
1	D	549	VAL	N-CA-C	5.69	116.49	108.36
1	A	917	VAL	N-CA-C	5.69	116.57	107.98
1	A	1303	GLY	N-CA-C	-5.69	103.59	112.58
1	D	441	ASP	CA-C-N	-5.69	113.88	122.81
1	D	441	ASP	C-N-CA	-5.69	113.88	122.81
1	E	145	GLU	CA-C-N	-5.69	112.86	120.54
1	E	145	GLU	C-N-CA	-5.69	112.86	120.54
1	F	233	GLU	CA-C-N	-5.68	115.14	123.10
1	F	233	GLU	C-N-CA	-5.68	115.14	123.10
1	A	957	ARG	N-CA-C	5.68	120.08	113.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1443	ILE	N-CA-C	-5.68	103.99	111.09
1	C	110	VAL	CB-CA-C	-5.68	105.65	110.94
1	C	132	ILE	N-CA-C	5.68	116.29	107.99
1	C	145	GLU	CA-C-N	-5.68	112.87	120.54
1	C	145	GLU	C-N-CA	-5.68	112.87	120.54
1	E	917	VAL	N-CA-C	5.68	116.56	107.98
2	G	377	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
2	H	231	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
2	J	377	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
2	L	231	ARG	NH1-CZ-NH2	-5.68	111.91	119.30
1	C	917	VAL	N-CA-C	5.68	116.56	107.98
1	D	746	ILE	CG1-CB-CG2	5.68	127.74	110.70
1	B	992	PRO	N-CD-CG	-5.68	94.68	103.20
2	I	377	ARG	NH1-CZ-NH2	-5.68	111.92	119.30
2	K	377	ARG	NH1-CZ-NH2	-5.68	111.92	119.30
1	B	549	VAL	N-CA-C	5.68	116.48	108.36
1	E	957	ARG	N-CA-C	5.68	120.07	113.20
1	E	1443	ILE	N-CA-C	-5.68	104.00	111.09
1	F	602	THR	N-CA-CB	-5.68	102.31	110.65
1	F	746	ILE	CG1-CB-CG2	5.68	127.73	110.70
1	D	992	PRO	N-CD-CG	-5.67	94.69	103.20
1	E	858	MET	N-CA-C	-5.67	98.84	108.26
1	E	1037	SER	CA-C-N	-5.67	112.43	121.34
1	E	1037	SER	C-N-CA	-5.67	112.43	121.34
2	G	231	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
2	G	366	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
2	J	231	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
2	J	366	ARG	NH1-CZ-NH2	-5.67	111.92	119.30
1	A	145	GLU	CA-C-N	-5.67	112.88	120.54
1	A	145	GLU	C-N-CA	-5.67	112.88	120.54
1	A	354	ARG	CG-CD-NE	-5.67	99.52	112.00
1	A	858	MET	N-CA-C	-5.67	98.84	108.26
1	B	746	ILE	CG1-CB-CG2	5.67	127.72	110.70
1	C	13	PRO	CB-CA-C	-5.67	104.13	111.39
1	E	354	ARG	CG-CD-NE	-5.67	99.52	112.00
2	I	458	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
2	K	458	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
1	A	132	ILE	N-CA-C	5.67	116.27	107.99
1	F	826	ARG	N-CA-C	-5.67	105.19	111.71
1	F	945	PRO	N-CD-CG	-5.67	94.69	103.20
1	F	1461	GLU	CA-C-N	-5.67	113.25	122.26
1	F	1461	GLU	C-N-CA	-5.67	113.25	122.26

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	1303	GLY	N-CA-C	-5.67	103.62	112.58
1	D	233	GLU	CA-C-N	-5.67	115.16	123.10
1	D	233	GLU	C-N-CA	-5.67	115.16	123.10
2	I	39	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
2	K	39	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
2	H	445	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
2	L	445	ARG	NH1-CZ-NH2	-5.67	111.93	119.30
2	I	230	ARG	NH1-CZ-NH2	-5.67	111.94	119.30
2	K	230	ARG	NH1-CZ-NH2	-5.67	111.94	119.30
1	E	132	ILE	N-CA-C	5.66	116.26	107.99
1	E	739	PHE	N-CA-C	-5.66	98.98	109.06
2	G	306	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	J	306	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	F	549	VAL	N-CA-C	5.66	116.46	108.36
2	H	246	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	H	419	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	L	246	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	L	419	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	A	13	PRO	CB-CA-C	-5.66	104.14	111.39
1	B	933	ALA	N-CA-C	5.66	117.07	108.07
1	B	1164	ARG	NE-CZ-NH1	-5.66	115.84	121.50
2	G	39	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	G	419	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	J	39	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	J	419	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	F	700	ILE	CB-CA-C	5.66	119.07	111.94
2	G	246	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	H	366	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	J	246	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
2	L	366	ARG	NH1-CZ-NH2	-5.66	111.94	119.30
1	D	602	THR	N-CA-CB	-5.66	102.33	110.65
1	E	1272	ALA	CA-C-N	-5.66	116.47	122.30
1	E	1272	ALA	C-N-CA	-5.66	116.47	122.30
1	B	945	PRO	N-CD-CG	-5.66	94.72	103.20
1	C	40	THR	N-CA-C	5.66	118.75	109.76
2	G	321	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
2	I	321	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
2	J	321	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
2	K	321	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
1	D	945	PRO	N-CD-CG	-5.65	94.72	103.20
2	I	231	ARG	NH1-CZ-NH2	-5.65	111.95	119.30
2	K	231	ARG	NH1-CZ-NH2	-5.65	111.95	119.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	739	PHE	N-CA-C	-5.65	99.00	109.06
1	E	13	PRO	CB-CA-C	-5.65	104.16	111.39
1	F	933	ALA	N-CA-C	5.65	117.06	108.07
1	B	700	ILE	CB-CA-C	5.65	119.06	111.94
1	D	700	ILE	CB-CA-C	5.65	119.06	111.94
2	H	321	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	L	321	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	D	12	LYS	CA-C-N	5.65	125.60	119.78
1	D	12	LYS	C-N-CA	5.65	125.60	119.78
1	D	933	ALA	N-CA-C	5.65	117.05	108.07
1	D	1164	ARG	NE-CZ-NH1	-5.65	115.85	121.50
1	D	1461	GLU	CA-C-N	-5.65	113.28	122.26
1	D	1461	GLU	C-N-CA	-5.65	113.28	122.26
2	H	39	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	I	246	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	I	419	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	K	246	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	K	419	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	L	39	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	H	306	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
2	L	306	ARG	NH1-CZ-NH2	-5.65	111.96	119.30
1	C	739	PHE	N-CA-C	-5.64	99.01	109.06
2	H	230	ARG	NH1-CZ-NH2	-5.64	111.96	119.30
2	I	306	ARG	NH1-CZ-NH2	-5.64	111.96	119.30
2	K	306	ARG	NH1-CZ-NH2	-5.64	111.96	119.30
2	L	230	ARG	NH1-CZ-NH2	-5.64	111.96	119.30
1	F	413	LEU	N-CA-C	5.64	117.51	111.36
1	B	1461	GLU	CA-C-N	-5.64	113.29	122.26
1	B	1461	GLU	C-N-CA	-5.64	113.29	122.26
1	C	92	ILE	CA-C-N	-5.64	112.73	120.46
1	C	92	ILE	C-N-CA	-5.64	112.73	120.46
1	D	344	GLY	N-CA-C	5.64	119.36	110.96
2	G	230	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
2	H	363	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
2	J	230	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
2	L	363	ARG	NH1-CZ-NH2	-5.64	111.97	119.30
1	B	826	ARG	N-CA-C	-5.64	105.23	111.71
1	D	156	GLU	N-CA-C	-5.64	104.14	111.02
1	D	1354	THR	N-CA-C	-5.63	100.22	109.40
1	A	40	THR	N-CA-C	5.63	118.72	109.76
1	B	1434	GLU	CA-C-N	5.63	129.61	120.60
1	B	1434	GLU	C-N-CA	5.63	129.61	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	I	140	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
2	K	140	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	D	1434	GLU	CA-C-N	5.63	129.61	120.60
1	D	1434	GLU	C-N-CA	5.63	129.61	120.60
1	F	1172	SER	CA-C-N	-5.63	113.75	122.59
1	F	1172	SER	C-N-CA	-5.63	113.75	122.59
2	G	363	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
2	I	363	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
2	J	363	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
2	K	363	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
1	B	413	LEU	N-CA-C	5.63	117.49	111.36
1	D	1172	SER	CA-C-N	-5.63	113.76	122.59
1	D	1172	SER	C-N-CA	-5.63	113.76	122.59
1	E	530	GLY	CA-C-N	-5.63	114.40	123.23
1	E	530	GLY	C-N-CA	-5.63	114.40	123.23
1	E	761	GLN	N-CA-C	-5.63	105.15	111.28
1	A	1272	ALA	CA-C-N	-5.62	116.51	122.30
1	A	1272	ALA	C-N-CA	-5.62	116.51	122.30
1	E	40	THR	N-CA-C	5.62	118.70	109.76
1	A	761	GLN	N-CA-C	-5.62	105.15	111.28
1	B	344	GLY	N-CA-C	5.62	119.34	110.96
1	B	1354	THR	N-CA-C	-5.62	100.23	109.40
1	C	761	GLN	N-CA-C	-5.62	105.15	111.28
2	H	140	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
2	L	140	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	A	530	GLY	CA-C-N	-5.62	114.40	123.23
1	A	530	GLY	C-N-CA	-5.62	114.40	123.23
1	B	156	GLU	N-CA-C	-5.62	104.16	111.02
1	B	1172	SER	CA-C-N	-5.62	113.77	122.59
1	B	1172	SER	C-N-CA	-5.62	113.77	122.59
1	F	344	GLY	N-CA-C	5.62	119.34	110.96
2	G	140	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
2	J	140	ARG	NH1-CZ-NH2	-5.62	111.99	119.30
1	B	12	LYS	CA-C-N	5.62	125.57	119.78
1	B	12	LYS	C-N-CA	5.62	125.57	119.78
1	C	530	GLY	CA-C-N	-5.62	114.41	123.23
1	C	530	GLY	C-N-CA	-5.62	114.41	123.23
1	D	1427	LEU	N-CA-C	-5.62	104.85	110.97
1	E	1108	CYS	CB-CA-C	5.62	121.45	110.67
1	F	1354	THR	N-CA-C	-5.62	100.25	109.40
1	A	156	GLU	CA-CB-CG	5.61	125.33	114.10
1	D	413	LEU	N-CA-C	5.61	117.48	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	1427	LEU	N-CA-C	-5.61	104.85	110.97
1	A	1175	ALA	CA-C-N	5.61	128.26	120.29
1	A	1175	ALA	C-N-CA	5.61	128.26	120.29
1	C	156	GLU	CA-CB-CG	5.61	125.33	114.10
1	D	826	ARG	N-CA-C	-5.61	105.26	111.71
1	D	1383	PHE	CA-C-N	-5.61	116.52	126.45
1	D	1383	PHE	C-N-CA	-5.61	116.52	126.45
1	F	1434	GLU	CA-C-N	5.61	129.58	120.60
1	F	1434	GLU	C-N-CA	5.61	129.58	120.60
2	H	350	PRO	CA-C-N	5.61	132.25	121.54
2	H	350	PRO	C-N-CA	5.61	132.25	121.54
2	I	63	ASN	CA-CB-CG	-5.61	106.99	112.60
2	K	63	ASN	CA-CB-CG	-5.61	106.99	112.60
2	L	350	PRO	CA-C-N	5.61	132.25	121.54
2	L	350	PRO	C-N-CA	5.61	132.25	121.54
1	A	1108	CYS	CB-CA-C	5.61	121.44	110.67
1	B	1383	PHE	CA-C-N	-5.61	116.53	126.45
1	B	1383	PHE	C-N-CA	-5.61	116.53	126.45
1	C	21	GLY	CA-C-N	-5.61	111.88	121.97
1	C	21	GLY	C-N-CA	-5.61	111.88	121.97
1	E	1357	VAL	N-CA-CB	-5.61	102.81	111.05
1	F	156	GLU	N-CA-C	-5.61	104.18	111.02
1	A	1357	VAL	N-CA-CB	-5.61	102.81	111.05
1	C	1108	CYS	CB-CA-C	5.61	121.43	110.67
1	E	21	GLY	CA-C-N	-5.61	111.88	121.97
1	E	21	GLY	C-N-CA	-5.61	111.88	121.97
1	E	92	ILE	CA-C-N	-5.61	112.78	120.46
1	E	92	ILE	C-N-CA	-5.61	112.78	120.46
2	G	350	PRO	CA-C-N	5.61	132.25	121.54
2	G	350	PRO	C-N-CA	5.61	132.25	121.54
2	J	350	PRO	CA-C-N	5.61	132.25	121.54
2	J	350	PRO	C-N-CA	5.61	132.25	121.54
1	E	1175	ALA	CA-C-N	5.60	128.25	120.29
1	E	1175	ALA	C-N-CA	5.60	128.25	120.29
1	A	92	ILE	CA-C-N	-5.60	112.78	120.46
1	A	92	ILE	C-N-CA	-5.60	112.78	120.46
1	F	244	MET	N-CA-C	-5.60	104.66	112.45
1	C	1357	VAL	N-CA-CB	-5.60	102.82	111.05
1	E	156	GLU	CA-CB-CG	5.60	125.30	114.10
1	F	1417	VAL	CB-CA-C	-5.60	102.85	111.08
2	I	350	PRO	CA-C-N	5.60	132.24	121.54
2	I	350	PRO	C-N-CA	5.60	132.24	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	K	350	PRO	CA-C-N	5.60	132.24	121.54
2	K	350	PRO	C-N-CA	5.60	132.24	121.54
1	C	1175	ALA	CA-C-N	5.60	128.24	120.29
1	C	1175	ALA	C-N-CA	5.60	128.24	120.29
1	E	505	GLN	N-CA-C	5.60	119.53	111.02
1	A	1122	ASP	CA-C-N	-5.60	112.34	120.29
1	A	1122	ASP	C-N-CA	-5.60	112.34	120.29
2	H	89	ASN	CA-CB-CG	-5.60	107.00	112.60
2	H	168	ALA	N-CA-C	-5.60	105.18	111.28
2	L	89	ASN	CA-CB-CG	-5.60	107.00	112.60
2	L	168	ALA	N-CA-C	-5.60	105.18	111.28
1	B	376	GLU	N-CA-C	-5.60	105.18	111.28
1	F	1466	LEU	N-CA-C	5.60	118.64	107.62
2	I	258	ILE	CB-CA-C	-5.60	103.09	110.98
2	K	258	ILE	CB-CA-C	-5.60	103.09	110.98
1	B	1427	LEU	N-CA-C	-5.59	104.87	110.97
1	C	505	GLN	N-CA-C	5.59	119.52	111.02
1	D	1466	LEU	N-CA-C	5.59	118.64	107.62
1	A	21	GLY	CA-C-N	-5.59	111.91	121.97
1	A	21	GLY	C-N-CA	-5.59	111.91	121.97
1	C	1122	ASP	CA-C-N	-5.59	112.35	120.29
1	C	1122	ASP	C-N-CA	-5.59	112.35	120.29
1	C	1272	ALA	CA-C-N	-5.59	116.54	122.30
1	C	1272	ALA	C-N-CA	-5.59	116.54	122.30
1	F	1383	PHE	CA-C-N	-5.59	116.55	126.45
1	F	1383	PHE	C-N-CA	-5.59	116.55	126.45
2	I	168	ALA	N-CA-C	-5.59	105.19	111.28
2	K	168	ALA	N-CA-C	-5.59	105.19	111.28
1	A	505	GLN	N-CA-C	5.59	119.52	111.02
1	B	80	ARG	CA-C-N	-5.59	113.72	121.77
1	B	80	ARG	C-N-CA	-5.59	113.72	121.77
1	B	1466	LEU	N-CA-C	5.59	118.63	107.62
1	F	1059	ASN	N-CA-C	-5.59	105.14	112.41
2	G	258	ILE	CB-CA-C	-5.59	103.10	110.98
2	H	258	ILE	CB-CA-C	-5.59	103.10	110.98
2	I	222	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
2	J	258	ILE	CB-CA-C	-5.59	103.10	110.98
2	K	222	ARG	NH1-CZ-NH2	-5.59	112.03	119.30
2	L	258	ILE	CB-CA-C	-5.59	103.10	110.98
1	B	1059	ASN	N-CA-C	-5.59	105.15	112.41
1	B	1417	VAL	CB-CA-C	-5.59	102.87	111.08
1	F	376	GLU	N-CA-C	-5.59	105.19	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	168	ALA	N-CA-C	-5.59	105.19	111.28
2	J	168	ALA	N-CA-C	-5.59	105.19	111.28
1	B	1257	PHE	N-CA-C	5.58	120.81	112.94
1	E	1122	ASP	CA-C-N	-5.58	112.36	120.29
1	E	1122	ASP	C-N-CA	-5.58	112.36	120.29
1	D	80	ARG	CA-C-N	-5.58	113.73	121.77
1	D	80	ARG	C-N-CA	-5.58	113.73	121.77
1	D	376	GLU	N-CA-C	-5.58	105.19	111.28
2	G	63	ASN	CA-CB-CG	-5.58	107.02	112.60
2	J	63	ASN	CA-CB-CG	-5.58	107.02	112.60
1	F	12	LYS	CA-C-N	5.58	125.53	119.78
1	F	12	LYS	C-N-CA	5.58	125.53	119.78
2	I	41	ASN	CA-CB-CG	-5.58	107.02	112.60
2	K	41	ASN	CA-CB-CG	-5.58	107.02	112.60
1	E	18	VAL	CA-C-N	-5.58	112.74	120.38
1	E	18	VAL	C-N-CA	-5.58	112.74	120.38
1	F	80	ARG	CA-C-N	-5.58	113.74	121.77
1	F	80	ARG	C-N-CA	-5.58	113.74	121.77
1	F	1257	PHE	N-CA-C	5.58	120.81	112.94
1	B	244	MET	N-CA-C	-5.58	104.70	112.45
1	E	373	LYS	N-CA-C	5.58	118.10	110.24
1	D	736	ALA	N-CA-C	-5.58	104.84	111.03
1	E	251	MET	CB-CG-SD	-5.58	95.97	112.70
2	G	41	ASN	CA-CB-CG	-5.58	107.02	112.60
2	G	89	ASN	CA-CB-CG	-5.58	107.03	112.60
2	H	41	ASN	CA-CB-CG	-5.58	107.02	112.60
2	J	41	ASN	CA-CB-CG	-5.58	107.02	112.60
2	J	89	ASN	CA-CB-CG	-5.58	107.03	112.60
2	L	41	ASN	CA-CB-CG	-5.58	107.02	112.60
1	A	251	MET	CB-CG-SD	-5.57	95.98	112.70
1	D	244	MET	N-CA-C	-5.57	104.70	112.45
1	D	1059	ASN	N-CA-C	-5.57	105.16	112.41
1	E	550	LEU	N-CA-C	5.57	118.18	108.76
1	F	397	SER	CA-CB-OG	-5.57	99.95	111.10
1	A	373	LYS	N-CA-C	5.57	118.10	110.24
1	A	550	LEU	N-CA-C	5.57	118.18	108.76
1	B	1400	SER	N-CA-C	-5.57	106.38	114.12
1	C	251	MET	CB-CG-SD	-5.57	95.99	112.70
1	B	397	SER	CA-CB-OG	-5.57	99.96	111.10
1	F	736	ALA	N-CA-C	-5.57	104.85	111.03
1	F	992	PRO	CA-C-N	-5.57	112.28	121.92
1	F	992	PRO	C-N-CA	-5.57	112.28	121.92

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	222	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
2	J	222	ARG	NH1-CZ-NH2	-5.57	112.06	119.30
1	A	117	ILE	N-CA-CB	-5.57	102.19	112.43
1	C	117	ILE	N-CA-CB	-5.57	102.19	112.43
1	C	550	LEU	N-CA-C	5.57	118.17	108.76
1	F	1400	SER	N-CA-C	-5.57	106.38	114.12
1	C	18	VAL	CA-C-N	-5.57	112.76	120.38
1	C	18	VAL	C-N-CA	-5.57	112.76	120.38
1	D	397	SER	CA-CB-OG	-5.57	99.97	111.10
2	I	106	GLY	CA-C-N	-5.57	114.34	122.86
2	I	106	GLY	C-N-CA	-5.57	114.34	122.86
2	K	106	GLY	CA-C-N	-5.57	114.34	122.86
2	K	106	GLY	C-N-CA	-5.57	114.34	122.86
2	I	89	ASN	CA-CB-CG	-5.56	107.04	112.60
2	K	89	ASN	CA-CB-CG	-5.56	107.04	112.60
1	E	117	ILE	N-CA-CB	-5.56	102.19	112.43
1	C	373	LYS	N-CA-C	5.56	118.08	110.24
1	D	1417	VAL	CB-CA-C	-5.56	102.91	111.08
2	H	222	ARG	NH1-CZ-NH2	-5.56	112.07	119.30
2	L	222	ARG	NH1-CZ-NH2	-5.56	112.07	119.30
1	F	1157	SER	N-CA-C	5.56	116.97	108.52
1	D	1400	SER	N-CA-C	-5.55	106.40	114.12
2	H	102	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
2	L	102	ARG	NH1-CZ-NH2	-5.55	112.08	119.30
1	B	992	PRO	CA-C-N	-5.55	112.31	121.92
1	B	992	PRO	C-N-CA	-5.55	112.31	121.92
2	H	106	GLY	CA-C-N	-5.55	114.37	122.86
2	H	106	GLY	C-N-CA	-5.55	114.37	122.86
2	L	106	GLY	CA-C-N	-5.55	114.37	122.86
2	L	106	GLY	C-N-CA	-5.55	114.37	122.86
1	A	18	VAL	CA-C-N	-5.55	112.78	120.38
1	A	18	VAL	C-N-CA	-5.55	112.78	120.38
1	B	736	ALA	N-CA-C	-5.55	104.87	111.03
1	A	351	ARG	NE-CZ-NH1	-5.55	115.95	121.50
2	H	63	ASN	CA-CB-CG	-5.55	107.05	112.60
2	L	63	ASN	CA-CB-CG	-5.55	107.05	112.60
1	D	992	PRO	CA-C-N	-5.54	112.33	121.92
1	D	992	PRO	C-N-CA	-5.54	112.33	121.92
1	B	1157	SER	N-CA-C	5.54	116.94	108.52
1	C	351	ARG	NE-CZ-NH1	-5.54	115.96	121.50
1	C	1407	ASP	CB-CA-C	-5.54	99.39	110.42
1	D	155	ILE	CA-C-N	5.54	128.49	120.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	155	ILE	C-N-CA	5.54	128.49	120.79
1	D	296	MET	CA-CB-CG	-5.54	103.02	114.10
2	G	102	ARG	NH1-CZ-NH2	-5.54	112.10	119.30
2	J	102	ARG	NH1-CZ-NH2	-5.54	112.10	119.30
1	D	940	GLU	CA-C-N	-5.54	110.56	121.41
1	D	940	GLU	C-N-CA	-5.54	110.56	121.41
1	D	1157	SER	N-CA-C	5.54	116.94	108.52
1	E	1407	ASP	CB-CA-C	-5.54	99.41	110.42
1	D	159	VAL	CB-CA-C	-5.53	104.67	112.14
1	F	155	ILE	CA-C-N	5.53	128.48	120.79
1	F	155	ILE	C-N-CA	5.53	128.48	120.79
1	B	155	ILE	CA-C-N	5.53	128.48	120.79
1	B	155	ILE	C-N-CA	5.53	128.48	120.79
1	F	159	VAL	CB-CA-C	-5.53	104.67	112.14
1	A	1195	ASN	CA-CB-CG	-5.53	107.07	112.60
2	G	106	GLY	CA-C-N	-5.53	114.40	122.86
2	G	106	GLY	C-N-CA	-5.53	114.40	122.86
2	J	106	GLY	CA-C-N	-5.53	114.40	122.86
2	J	106	GLY	C-N-CA	-5.53	114.40	122.86
1	A	1407	ASP	CB-CA-C	-5.53	99.42	110.42
1	B	159	VAL	CB-CA-C	-5.53	104.68	112.14
1	B	940	GLU	CA-C-N	-5.53	110.58	121.41
1	B	940	GLU	C-N-CA	-5.53	110.58	121.41
1	A	840	VAL	N-CA-C	5.53	116.16	110.36
1	B	973	ASP	N-CA-C	-5.53	103.81	110.88
2	G	396	ILE	N-CA-C	-5.52	100.17	108.12
2	J	396	ILE	N-CA-C	-5.52	100.17	108.12
1	B	296	MET	CA-CB-CG	-5.52	103.05	114.10
1	F	296	MET	CA-CB-CG	-5.52	103.05	114.10
1	F	331	ALA	N-CA-C	5.52	117.10	107.49
1	F	940	GLU	CA-C-N	-5.52	110.58	121.41
1	F	940	GLU	C-N-CA	-5.52	110.58	121.41
2	H	213	ILE	N-CA-C	-5.52	100.34	108.85
2	L	213	ILE	N-CA-C	-5.52	100.34	108.85
1	C	840	VAL	N-CA-C	5.52	116.16	110.36
2	I	102	ARG	NH1-CZ-NH2	-5.52	112.13	119.30
2	K	102	ARG	NH1-CZ-NH2	-5.52	112.13	119.30
1	C	233	GLU	CA-C-N	-5.52	115.59	123.10
1	C	233	GLU	C-N-CA	-5.52	115.59	123.10
1	F	259	HIS	N-CA-C	5.52	119.27	112.54
1	F	1310	THR	CA-C-N	5.52	129.43	120.60
1	F	1310	THR	C-N-CA	5.52	129.43	120.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	I	396	ILE	N-CA-C	-5.52	100.17	108.12
2	K	396	ILE	N-CA-C	-5.52	100.17	108.12
1	B	331	ALA	N-CA-C	5.51	117.08	107.49
1	F	240	ASN	N-CA-C	-5.51	105.18	111.14
1	D	259	HIS	N-CA-C	5.51	119.27	112.54
1	D	973	ASP	N-CA-C	-5.51	103.82	110.88
1	D	331	ALA	N-CA-C	5.51	117.08	107.49
2	G	213	ILE	N-CA-C	-5.51	100.36	108.85
2	J	213	ILE	N-CA-C	-5.51	100.36	108.85
1	A	233	GLU	CA-C-N	-5.51	115.61	123.10
1	A	233	GLU	C-N-CA	-5.51	115.61	123.10
2	H	396	ILE	N-CA-C	-5.51	100.19	108.12
2	I	213	ILE	N-CA-C	-5.51	100.36	108.85
2	K	213	ILE	N-CA-C	-5.51	100.36	108.85
2	L	396	ILE	N-CA-C	-5.51	100.19	108.12
1	A	651	ASP	CB-CA-C	-5.51	100.10	110.51
1	E	351	ARG	NE-CZ-NH1	-5.51	115.99	121.50
2	H	75	GLY	CA-C-N	-5.51	114.65	122.41
2	H	75	GLY	C-N-CA	-5.51	114.65	122.41
2	L	75	GLY	CA-C-N	-5.51	114.65	122.41
2	L	75	GLY	C-N-CA	-5.51	114.65	122.41
1	B	259	HIS	N-CA-C	5.50	119.26	112.54
1	C	637	ARG	CA-C-N	-5.50	111.53	120.72
1	C	637	ARG	C-N-CA	-5.50	111.53	120.72
1	C	1195	ASN	CA-CB-CG	-5.50	107.10	112.60
1	D	240	ASN	N-CA-C	-5.50	105.20	111.14
1	D	1310	THR	CA-C-N	5.50	129.41	120.60
1	D	1310	THR	C-N-CA	5.50	129.41	120.60
1	E	840	VAL	N-CA-C	5.50	116.14	110.36
1	A	637	ARG	CA-C-N	-5.50	111.53	120.72
1	A	637	ARG	C-N-CA	-5.50	111.53	120.72
1	C	1286	LEU	CA-C-N	-5.50	115.45	122.77
1	C	1286	LEU	C-N-CA	-5.50	115.45	122.77
1	D	1071	GLY	CA-C-N	-5.50	112.17	121.85
1	D	1071	GLY	C-N-CA	-5.50	112.17	121.85
1	B	1310	THR	CA-C-N	5.50	129.40	120.60
1	B	1310	THR	C-N-CA	5.50	129.40	120.60
1	E	233	GLU	CA-C-N	-5.50	115.62	123.10
1	E	233	GLU	C-N-CA	-5.50	115.62	123.10
1	F	973	ASP	N-CA-C	-5.50	103.84	110.88
1	B	240	ASN	N-CA-C	-5.50	105.20	111.14
1	C	651	ASP	CB-CA-C	-5.50	100.12	110.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	328	ASP	N-CA-C	5.50	118.94	110.42
1	E	637	ARG	CA-C-N	-5.50	111.54	120.72
1	E	637	ARG	C-N-CA	-5.50	111.54	120.72
1	E	651	ASP	CB-CA-C	-5.50	100.12	110.51
1	C	533	LEU	N-CA-C	5.49	119.15	112.23
1	E	1195	ASN	CA-CB-CG	-5.49	107.11	112.60
1	D	328	ASP	N-CA-C	5.49	118.93	110.42
1	A	533	LEU	N-CA-C	5.49	119.15	112.23
1	A	950	THR	N-CA-CB	-5.49	101.21	110.49
1	E	533	LEU	N-CA-C	5.49	119.14	112.23
1	E	564	ASP	N-CA-C	-5.49	105.40	111.71
1	C	564	ASP	N-CA-C	-5.49	105.40	111.71
2	G	75	GLY	CA-C-N	-5.49	114.67	122.41
2	G	75	GLY	C-N-CA	-5.49	114.67	122.41
2	J	75	GLY	CA-C-N	-5.49	114.67	122.41
2	J	75	GLY	C-N-CA	-5.49	114.67	122.41
1	B	964	MET	N-CA-C	5.49	118.40	110.28
1	F	328	ASP	N-CA-C	5.49	118.92	110.42
1	C	950	THR	N-CA-CB	-5.48	101.22	110.49
1	D	964	MET	N-CA-C	5.48	118.40	110.28
2	H	199	VAL	CB-CA-C	-5.48	104.84	112.02
2	L	199	VAL	CB-CA-C	-5.48	104.84	112.02
1	F	1071	GLY	CA-C-N	-5.48	112.21	121.85
1	F	1071	GLY	C-N-CA	-5.48	112.21	121.85
1	E	597	VAL	N-CA-C	5.48	116.21	110.62
2	I	75	GLY	CA-C-N	-5.48	114.68	122.41
2	I	75	GLY	C-N-CA	-5.48	114.68	122.41
2	I	199	VAL	CB-CA-C	-5.48	104.84	112.02
2	K	75	GLY	CA-C-N	-5.48	114.68	122.41
2	K	75	GLY	C-N-CA	-5.48	114.68	122.41
2	K	199	VAL	CB-CA-C	-5.48	104.84	112.02
1	F	1052	VAL	CA-C-N	-5.48	112.88	120.38
1	F	1052	VAL	C-N-CA	-5.48	112.88	120.38
1	A	564	ASP	N-CA-C	-5.48	105.41	111.71
1	B	1071	GLY	CA-C-N	-5.48	112.21	121.85
1	B	1071	GLY	C-N-CA	-5.48	112.21	121.85
1	B	290	THR	N-CA-CB	-5.47	101.24	110.49
1	D	290	THR	N-CA-CB	-5.47	101.24	110.49
2	G	199	VAL	CB-CA-C	-5.47	104.85	112.02
2	J	199	VAL	CB-CA-C	-5.47	104.85	112.02
1	F	964	MET	N-CA-C	5.47	118.38	110.28
1	A	1286	LEU	CA-C-N	-5.47	115.49	122.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1286	LEU	C-N-CA	-5.47	115.49	122.77
1	E	950	THR	N-CA-CB	-5.47	101.25	110.49
2	G	109	VAL	CB-CA-C	-5.47	104.67	112.22
2	J	109	VAL	CB-CA-C	-5.47	104.67	112.22
1	B	1342	ALA	N-CA-C	-5.47	102.10	110.14
1	C	330	PRO	N-CA-C	-5.47	102.61	111.14
2	H	305	VAL	CB-CA-C	-5.47	104.97	111.97
2	L	305	VAL	CB-CA-C	-5.47	104.97	111.97
1	B	1311	THR	N-CA-CB	-5.46	101.03	110.32
1	C	597	VAL	N-CA-C	5.46	116.19	110.62
1	E	1286	LEU	CA-C-N	-5.46	115.50	122.77
1	E	1286	LEU	C-N-CA	-5.46	115.50	122.77
1	C	992	PRO	N-CD-CG	-5.46	95.01	103.20
1	F	1342	ALA	N-CA-C	-5.46	102.11	110.14
2	I	305	VAL	CB-CA-C	-5.46	104.98	111.97
2	K	305	VAL	CB-CA-C	-5.46	104.98	111.97
1	D	1342	ALA	N-CA-C	-5.46	102.11	110.14
1	B	1052	VAL	CA-C-N	-5.46	112.90	120.38
1	B	1052	VAL	C-N-CA	-5.46	112.90	120.38
1	F	1311	THR	N-CA-CB	-5.46	101.04	110.32
1	A	597	VAL	N-CA-C	5.46	116.19	110.62
1	A	992	PRO	N-CD-CG	-5.46	95.01	103.20
1	F	290	THR	N-CA-CB	-5.46	101.27	110.49
2	G	305	VAL	CB-CA-C	-5.46	104.98	111.97
2	J	305	VAL	CB-CA-C	-5.46	104.98	111.97
1	A	330	PRO	N-CA-C	-5.46	102.63	111.14
1	D	700	ILE	N-CA-C	-5.46	105.80	111.58
1	D	1311	THR	N-CA-CB	-5.46	101.05	110.32
1	B	700	ILE	N-CA-C	-5.45	105.80	111.58
1	E	228	LEU	N-CA-CB	-5.45	101.76	111.08
2	H	109	VAL	CB-CA-C	-5.45	104.70	112.22
2	I	109	VAL	CB-CA-C	-5.45	104.70	112.22
2	K	109	VAL	CB-CA-C	-5.45	104.70	112.22
2	L	109	VAL	CB-CA-C	-5.45	104.70	112.22
1	D	622	LEU	CA-C-N	-5.45	112.55	120.29
1	D	622	LEU	C-N-CA	-5.45	112.55	120.29
1	D	1052	VAL	CA-C-N	-5.45	112.92	120.38
1	D	1052	VAL	C-N-CA	-5.45	112.92	120.38
1	F	622	LEU	CA-C-N	-5.45	112.56	120.29
1	F	622	LEU	C-N-CA	-5.45	112.56	120.29
1	F	92	ILE	CA-C-N	-5.45	113.70	120.56
1	F	92	ILE	C-N-CA	-5.45	113.70	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	713	ILE	N-CA-CB	-5.44	103.61	110.31
1	D	968	PRO	N-CD-CG	-5.44	95.03	103.20
1	B	622	LEU	CA-C-N	-5.44	112.56	120.29
1	B	622	LEU	C-N-CA	-5.44	112.56	120.29
1	E	992	PRO	N-CD-CG	-5.44	95.04	103.20
1	F	260	MET	CA-C-N	-5.44	111.87	120.63
1	F	260	MET	C-N-CA	-5.44	111.87	120.63
1	F	747	SER	N-CA-C	-5.44	99.20	110.80
1	F	861	GLY	N-CA-C	-5.44	100.28	113.18
2	H	259	VAL	N-CA-C	-5.44	101.17	108.35
2	L	259	VAL	N-CA-C	-5.44	101.17	108.35
1	B	92	ILE	CA-C-N	-5.44	113.71	120.56
1	B	92	ILE	C-N-CA	-5.44	113.71	120.56
1	B	260	MET	CA-C-N	-5.44	111.88	120.63
1	B	260	MET	C-N-CA	-5.44	111.88	120.63
1	E	330	PRO	N-CA-C	-5.44	102.66	111.14
1	A	1408	GLU	N-CA-C	5.43	122.38	110.80
1	B	747	SER	N-CA-C	-5.43	99.22	110.80
1	B	968	PRO	N-CD-CG	-5.43	95.05	103.20
1	D	627	VAL	N-CA-C	5.43	116.16	110.62
1	A	228	LEU	N-CA-CB	-5.43	101.79	111.08
1	B	1135	VAL	CA-C-N	-5.43	112.20	121.97
1	B	1135	VAL	C-N-CA	-5.43	112.20	121.97
1	D	713	ILE	N-CA-CB	-5.43	103.63	110.31
1	E	824	GLN	N-CA-CB	-5.43	102.25	111.69
1	D	1135	VAL	CA-C-N	-5.43	112.20	121.97
1	D	1135	VAL	C-N-CA	-5.43	112.20	121.97
1	D	260	MET	CA-C-N	-5.42	111.90	120.63
1	D	260	MET	C-N-CA	-5.42	111.90	120.63
1	E	1408	GLU	N-CA-C	5.42	122.36	110.80
1	C	1408	GLU	N-CA-C	5.42	122.35	110.80
1	D	747	SER	N-CA-C	-5.42	99.25	110.80
1	F	1135	VAL	CA-C-N	-5.42	112.21	121.97
1	F	1135	VAL	C-N-CA	-5.42	112.21	121.97
1	B	861	GLY	N-CA-C	-5.42	100.34	113.18
1	D	92	ILE	CA-C-N	-5.42	113.73	120.56
1	D	92	ILE	C-N-CA	-5.42	113.73	120.56
1	F	713	ILE	N-CA-CB	-5.42	103.64	110.31
2	G	259	VAL	N-CA-C	-5.42	101.20	108.35
2	J	259	VAL	N-CA-C	-5.42	101.20	108.35
1	A	568	GLU	CA-C-N	-5.42	116.11	123.10
1	A	568	GLU	C-N-CA	-5.42	116.11	123.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	627	VAL	N-CA-C	5.42	116.14	110.62
1	F	700	ILE	N-CA-C	-5.42	105.84	111.58
2	G	267	THR	N-CA-C	-5.42	105.46	111.36
2	J	267	THR	N-CA-C	-5.42	105.46	111.36
1	A	824	GLN	N-CA-CB	-5.41	102.27	111.69
1	C	28	VAL	CA-C-N	-5.41	112.08	120.31
1	C	28	VAL	C-N-CA	-5.41	112.08	120.31
1	D	481	ASP	N-CA-C	-5.41	98.41	107.99
1	E	234	ILE	N-CA-CB	-5.41	105.60	112.15
1	F	968	PRO	N-CD-CG	-5.41	95.08	103.20
1	C	228	LEU	N-CA-CB	-5.41	101.83	111.08
1	A	28	VAL	CA-C-N	-5.41	112.09	120.31
1	A	28	VAL	C-N-CA	-5.41	112.09	120.31
1	C	568	GLU	CA-C-N	-5.41	116.13	123.10
1	C	568	GLU	C-N-CA	-5.41	116.13	123.10
1	D	155	ILE	N-CA-C	-5.41	105.45	110.53
1	D	1003	ARG	CA-C-N	-5.41	113.69	121.42
1	D	1003	ARG	C-N-CA	-5.41	113.69	121.42
1	D	861	GLY	N-CA-C	-5.40	100.37	113.18
1	E	212	SER	O-C-N	5.40	128.81	123.46
1	F	627	VAL	N-CA-C	5.40	116.13	110.62
1	F	1003	ARG	CA-C-N	-5.40	113.69	121.42
1	F	1003	ARG	C-N-CA	-5.40	113.69	121.42
1	B	481	ASP	N-CA-C	-5.40	98.43	107.99
1	C	824	GLN	N-CA-CB	-5.40	102.29	111.69
2	H	393	ASP	CA-CB-CG	-5.40	107.20	112.60
2	I	395	VAL	CB-CA-C	-5.40	102.57	110.62
2	K	395	VAL	CB-CA-C	-5.40	102.57	110.62
2	L	393	ASP	CA-CB-CG	-5.40	107.20	112.60
1	E	439	PRO	CB-CA-C	-5.40	102.00	110.96
1	E	1179	ASP	CB-CA-C	-5.40	103.57	111.77
1	B	1003	ARG	CA-C-N	-5.40	113.70	121.42
1	B	1003	ARG	C-N-CA	-5.40	113.70	121.42
1	C	1027	SER	CA-C-N	-5.40	113.82	121.54
1	C	1027	SER	C-N-CA	-5.40	113.82	121.54
1	F	420	VAL	N-CA-C	-5.40	105.12	111.00
2	I	259	VAL	N-CA-C	-5.40	101.23	108.35
2	I	267	THR	N-CA-C	-5.40	105.48	111.36
2	K	259	VAL	N-CA-C	-5.40	101.23	108.35
2	K	267	THR	N-CA-C	-5.40	105.48	111.36
1	A	439	PRO	CB-CA-C	-5.39	102.01	110.96
1	B	155	ILE	N-CA-C	-5.39	105.46	110.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	272	SER	N-CA-C	-5.39	102.91	110.35
2	G	393	ASP	CA-CB-CG	-5.39	107.20	112.60
2	J	393	ASP	CA-CB-CG	-5.39	107.20	112.60
1	A	234	ILE	N-CA-CB	-5.39	105.62	112.15
1	C	439	PRO	CB-CA-C	-5.39	102.01	110.96
1	D	1229	MET	N-CA-C	5.39	117.88	109.52
1	E	568	GLU	CA-C-N	-5.39	116.14	123.10
1	E	568	GLU	C-N-CA	-5.39	116.14	123.10
2	G	238	VAL	CB-CA-C	-5.39	104.52	111.53
2	J	238	VAL	CB-CA-C	-5.39	104.52	111.53
1	A	1027	SER	CA-C-N	-5.39	113.83	121.54
1	A	1027	SER	C-N-CA	-5.39	113.83	121.54
1	E	1027	SER	CA-C-N	-5.39	113.83	121.54
1	E	1027	SER	C-N-CA	-5.39	113.83	121.54
1	F	1229	MET	N-CA-C	5.39	117.87	109.52
2	H	267	THR	N-CA-C	-5.39	105.49	111.36
2	L	267	THR	N-CA-C	-5.39	105.49	111.36
2	G	395	VAL	CB-CA-C	-5.39	102.59	110.62
2	H	238	VAL	CB-CA-C	-5.39	104.53	111.53
2	J	395	VAL	CB-CA-C	-5.39	102.59	110.62
2	L	238	VAL	CB-CA-C	-5.39	104.53	111.53
1	B	272	SER	N-CA-C	-5.38	102.92	110.35
1	B	1229	MET	N-CA-C	5.38	117.87	109.52
1	C	1179	ASP	CB-CA-C	-5.38	103.59	111.77
1	D	1176	GLU	N-CA-CB	5.38	119.59	111.35
1	F	155	ILE	N-CA-C	-5.38	105.47	110.53
2	H	87	THR	CA-C-N	-5.38	114.45	122.74
2	H	87	THR	C-N-CA	-5.38	114.45	122.74
2	L	87	THR	CA-C-N	-5.38	114.45	122.74
2	L	87	THR	C-N-CA	-5.38	114.45	122.74
1	F	1044	PRO	CB-CA-C	-5.38	104.50	111.39
1	B	420	VAL	N-CA-C	-5.38	105.14	111.00
1	E	109	GLN	N-CA-CB	5.38	117.86	109.85
2	I	393	ASP	CA-CB-CG	-5.38	107.22	112.60
2	K	393	ASP	CA-CB-CG	-5.38	107.22	112.60
1	A	1179	ASP	CB-CA-C	-5.38	103.60	111.77
1	C	109	GLN	N-CA-CB	5.38	117.86	109.85
1	E	69	ASN	CB-CA-C	-5.38	99.72	110.42
1	A	109	GLN	N-CA-CB	5.38	117.86	109.85
1	A	670	LEU	N-CA-C	-5.38	106.91	112.93
1	E	28	VAL	CA-C-N	-5.38	112.14	120.31
1	E	28	VAL	C-N-CA	-5.38	112.14	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	I	238	VAL	CB-CA-C	-5.38	104.54	111.53
2	K	238	VAL	CB-CA-C	-5.38	104.54	111.53
1	F	481	ASP	N-CA-C	-5.37	98.48	107.99
1	A	212	SER	O-C-N	5.37	128.78	123.46
1	B	126	PRO	CA-C-O	-5.37	114.01	121.90
1	D	420	VAL	N-CA-C	-5.37	105.15	111.00
1	E	823	MET	N-CA-CB	-5.37	103.86	111.00
1	A	69	ASN	CB-CA-C	-5.37	99.74	110.42
1	C	234	ILE	N-CA-CB	-5.37	105.65	112.15
1	D	272	SER	N-CA-C	-5.37	102.94	110.35
1	F	126	PRO	CA-C-O	-5.37	114.01	121.90
2	H	395	VAL	CB-CA-C	-5.37	102.62	110.62
2	L	395	VAL	CB-CA-C	-5.37	102.62	110.62
1	E	1143	ALA	CA-C-N	-5.37	113.03	120.38
1	E	1143	ALA	C-N-CA	-5.37	113.03	120.38
1	A	1143	ALA	CA-C-N	-5.37	113.03	120.38
1	A	1143	ALA	C-N-CA	-5.37	113.03	120.38
1	B	1044	PRO	CB-CA-C	-5.37	104.52	111.39
1	C	69	ASN	CB-CA-C	-5.36	99.75	110.42
1	C	670	LEU	N-CA-C	-5.36	106.92	112.93
1	D	126	PRO	CA-C-O	-5.36	114.02	121.90
1	D	1044	PRO	CB-CA-C	-5.36	104.52	111.39
2	G	87	THR	CA-C-N	-5.36	114.48	122.74
2	G	87	THR	C-N-CA	-5.36	114.48	122.74
2	J	87	THR	CA-C-N	-5.36	114.48	122.74
2	J	87	THR	C-N-CA	-5.36	114.48	122.74
1	C	823	MET	N-CA-CB	-5.36	103.88	111.00
1	C	1143	ALA	CA-C-N	-5.36	113.04	120.38
1	C	1143	ALA	C-N-CA	-5.36	113.04	120.38
2	H	257	ASN	OD1-CG-ND2	5.36	127.95	122.60
2	L	257	ASN	OD1-CG-ND2	5.36	127.95	122.60
2	I	87	THR	CA-C-N	-5.35	114.50	122.74
2	I	87	THR	C-N-CA	-5.35	114.50	122.74
2	K	87	THR	CA-C-N	-5.35	114.50	122.74
2	K	87	THR	C-N-CA	-5.35	114.50	122.74
1	B	1176	GLU	N-CA-CB	5.35	119.54	111.35
1	A	823	MET	N-CA-CB	-5.35	103.89	111.00
1	A	1382	ASN	CA-C-O	-5.35	115.77	122.03
1	E	670	LEU	N-CA-C	-5.35	106.94	112.93
1	F	1176	GLU	N-CA-CB	5.35	119.53	111.35
1	A	473	LYS	CA-C-N	-5.35	113.55	122.64
1	A	473	LYS	C-N-CA	-5.35	113.55	122.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	212	SER	O-C-N	5.35	128.75	123.46
1	C	484	PRO	CB-CA-C	-5.35	103.17	111.40
1	F	347	ARG	N-CA-C	5.35	119.42	113.01
2	G	257	ASN	OD1-CG-ND2	5.35	127.95	122.60
2	J	257	ASN	OD1-CG-ND2	5.35	127.95	122.60
2	G	214	TYR	CA-C-N	-5.34	115.40	122.56
2	G	214	TYR	C-N-CA	-5.34	115.40	122.56
2	I	127	ILE	CG1-CB-CG2	5.34	126.73	110.70
2	J	214	TYR	CA-C-N	-5.34	115.40	122.56
2	J	214	TYR	C-N-CA	-5.34	115.40	122.56
2	K	127	ILE	CG1-CB-CG2	5.34	126.73	110.70
1	E	473	LYS	CA-C-N	-5.34	113.56	122.64
1	E	473	LYS	C-N-CA	-5.34	113.56	122.64
1	C	1382	ASN	CA-C-O	-5.34	115.78	122.03
1	F	90	ARG	CA-C-N	-5.34	113.50	120.44
1	F	90	ARG	C-N-CA	-5.34	113.50	120.44
1	A	484	PRO	CB-CA-C	-5.34	103.18	111.40
1	E	1382	ASN	CA-C-O	-5.34	115.78	122.03
2	H	214	TYR	CA-C-N	-5.34	115.41	122.56
2	H	214	TYR	C-N-CA	-5.34	115.41	122.56
2	I	214	TYR	CA-C-N	-5.34	115.41	122.56
2	I	214	TYR	C-N-CA	-5.34	115.41	122.56
2	K	214	TYR	CA-C-N	-5.34	115.41	122.56
2	K	214	TYR	C-N-CA	-5.34	115.41	122.56
2	L	214	TYR	CA-C-N	-5.34	115.41	122.56
2	L	214	TYR	C-N-CA	-5.34	115.41	122.56
1	C	473	LYS	CA-C-N	-5.34	113.56	122.64
1	C	473	LYS	C-N-CA	-5.34	113.56	122.64
2	G	127	ILE	CG1-CB-CG2	5.34	126.71	110.70
2	H	127	ILE	CG1-CB-CG2	5.34	126.71	110.70
2	J	127	ILE	CG1-CB-CG2	5.34	126.71	110.70
2	L	127	ILE	CG1-CB-CG2	5.34	126.71	110.70
1	E	484	PRO	CB-CA-C	-5.33	103.18	111.40
1	B	90	ARG	CA-C-N	-5.33	113.51	120.44
1	B	90	ARG	C-N-CA	-5.33	113.51	120.44
1	C	871	LEU	CA-C-N	-5.33	112.07	120.60
1	C	871	LEU	C-N-CA	-5.33	112.07	120.60
1	B	347	ARG	N-CA-C	5.33	119.41	113.01
1	C	746	ILE	CA-CB-CG2	-5.33	101.44	110.50
1	D	90	ARG	CA-C-N	-5.33	113.51	120.44
1	D	90	ARG	C-N-CA	-5.33	113.51	120.44
1	D	1128	PHE	N-CA-C	5.33	117.95	109.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	344	PHE	CA-CB-CG	-5.33	108.47	113.80
2	J	344	PHE	CA-CB-CG	-5.33	108.47	113.80
1	A	1038	ILE	CA-C-N	-5.33	113.68	121.99
1	A	1038	ILE	C-N-CA	-5.33	113.68	121.99
1	C	1038	ILE	CA-C-N	-5.33	113.68	121.99
1	C	1038	ILE	C-N-CA	-5.33	113.68	121.99
1	C	75	GLN	CA-C-N	-5.33	115.04	122.71
1	C	75	GLN	C-N-CA	-5.33	115.04	122.71
1	C	211	TYR	CB-CA-C	-5.33	100.46	111.22
1	D	356	THR	OG1-CB-CG2	-5.33	98.65	109.30
1	A	1071	GLY	O-C-N	-5.32	115.78	122.70
1	C	1071	GLY	O-C-N	-5.32	115.78	122.70
1	D	1106	ARG	N-CA-C	5.32	118.74	111.39
1	E	1071	GLY	O-C-N	-5.32	115.78	122.70
1	F	356	THR	OG1-CB-CG2	-5.32	98.65	109.30
2	I	230	ARG	N-CA-C	-5.32	105.59	111.71
2	K	230	ARG	N-CA-C	-5.32	105.59	111.71
1	D	347	ARG	N-CA-C	5.32	119.40	113.01
1	E	211	TYR	CB-CA-C	-5.32	100.47	111.22
1	E	1038	ILE	CA-C-N	-5.32	113.69	121.99
1	E	1038	ILE	C-N-CA	-5.32	113.69	121.99
1	F	1128	PHE	N-CA-C	5.32	117.94	109.96
2	I	83	VAL	N-CA-C	-5.32	105.19	110.62
2	K	83	VAL	N-CA-C	-5.32	105.19	110.62
1	A	211	TYR	CB-CA-C	-5.32	100.47	111.22
1	A	746	ILE	CA-CB-CG2	-5.32	101.45	110.50
1	B	149	TYR	N-CA-C	-5.32	105.17	110.97
1	B	356	THR	OG1-CB-CG2	-5.32	98.66	109.30
1	A	871	LEU	CA-C-N	-5.32	112.09	120.60
1	A	871	LEU	C-N-CA	-5.32	112.09	120.60
1	E	871	LEU	CA-C-N	-5.32	112.09	120.60
1	E	871	LEU	C-N-CA	-5.32	112.09	120.60
1	B	1106	ARG	N-CA-C	5.32	118.73	111.39
1	B	1196	ALA	CA-C-N	-5.32	115.22	122.93
1	B	1196	ALA	C-N-CA	-5.32	115.22	122.93
1	F	1106	ARG	N-CA-C	5.32	118.72	111.39
2	I	257	ASN	OD1-CG-ND2	5.32	127.92	122.60
2	I	344	PHE	CA-CB-CG	-5.32	108.48	113.80
2	K	257	ASN	OD1-CG-ND2	5.32	127.92	122.60
2	K	344	PHE	CA-CB-CG	-5.32	108.48	113.80
1	F	1196	ALA	CA-C-N	-5.31	115.22	122.93
1	F	1196	ALA	C-N-CA	-5.31	115.22	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	1128	PHE	N-CA-C	5.31	117.93	109.96
1	B	1349	ARG	NE-CZ-NH1	-5.31	116.19	121.50
1	F	149	TYR	N-CA-C	-5.31	105.18	110.97
1	A	75	GLN	CA-C-N	-5.31	115.06	122.71
1	A	75	GLN	C-N-CA	-5.31	115.06	122.71
1	C	506	VAL	CA-C-O	5.31	124.45	118.98
1	E	506	VAL	CA-C-O	5.31	124.45	118.98
1	E	683	LEU	CA-C-N	-5.31	113.78	122.54
1	E	683	LEU	C-N-CA	-5.31	113.78	122.54
1	E	746	ILE	CA-CB-CG2	-5.31	101.47	110.50
1	A	379	VAL	CA-C-N	-5.31	114.01	121.55
1	A	379	VAL	C-N-CA	-5.31	114.01	121.55
1	E	75	GLN	CA-C-N	-5.31	115.07	122.71
1	E	75	GLN	C-N-CA	-5.31	115.07	122.71
1	C	379	VAL	CA-C-N	-5.31	114.02	121.55
1	C	379	VAL	C-N-CA	-5.31	114.02	121.55
2	H	344	PHE	CA-CB-CG	-5.31	108.49	113.80
2	L	344	PHE	CA-CB-CG	-5.31	108.49	113.80
1	D	149	TYR	N-CA-C	-5.30	105.19	110.97
1	F	1349	ARG	NE-CZ-NH1	-5.30	116.20	121.50
1	E	888	GLY	O-C-N	5.30	129.03	122.78
1	D	1196	ALA	CA-C-N	-5.30	115.25	122.93
1	D	1196	ALA	C-N-CA	-5.30	115.25	122.93
2	G	230	ARG	N-CA-C	-5.30	105.62	111.71
2	J	230	ARG	N-CA-C	-5.30	105.62	111.71
1	A	861	GLY	N-CA-C	-5.30	100.63	113.18
1	D	795	ILE	CB-CA-C	-5.30	105.10	111.88
1	E	379	VAL	CA-C-N	-5.30	114.03	121.55
1	E	379	VAL	C-N-CA	-5.30	114.03	121.55
1	A	683	LEU	CA-C-N	-5.29	113.80	122.54
1	A	683	LEU	C-N-CA	-5.29	113.80	122.54
1	C	773	LEU	N-CA-C	-5.29	102.58	110.20
2	G	83	VAL	N-CA-C	-5.29	105.22	110.62
2	J	83	VAL	N-CA-C	-5.29	105.22	110.62
1	A	773	LEU	N-CA-C	-5.29	102.58	110.20
1	B	795	ILE	CB-CA-C	-5.29	105.10	111.88
1	E	861	GLY	N-CA-C	-5.29	100.63	113.18
2	I	298	GLY	CA-C-N	5.29	127.37	120.28
2	I	298	GLY	C-N-CA	5.29	127.37	120.28
2	K	298	GLY	CA-C-N	5.29	127.37	120.28
2	K	298	GLY	C-N-CA	5.29	127.37	120.28
1	C	861	GLY	N-CA-C	-5.29	100.64	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	153	ILE	CG1-CB-CG2	5.29	126.57	110.70
2	H	230	ARG	N-CA-C	-5.29	105.62	111.71
2	L	153	ILE	CG1-CB-CG2	5.29	126.57	110.70
2	L	230	ARG	N-CA-C	-5.29	105.62	111.71
1	D	875	MET	CA-C-N	-5.29	112.11	120.63
1	D	875	MET	C-N-CA	-5.29	112.11	120.63
2	H	298	GLY	CA-C-N	5.29	127.37	120.28
2	H	298	GLY	C-N-CA	5.29	127.37	120.28
2	L	298	GLY	CA-C-N	5.29	127.37	120.28
2	L	298	GLY	C-N-CA	5.29	127.37	120.28
1	A	506	VAL	CA-C-O	5.29	124.42	118.98
2	G	298	GLY	CA-C-N	5.29	127.36	120.28
2	G	298	GLY	C-N-CA	5.29	127.36	120.28
2	J	298	GLY	CA-C-N	5.29	127.36	120.28
2	J	298	GLY	C-N-CA	5.29	127.36	120.28
1	C	304	THR	N-CA-C	-5.29	102.57	110.23
1	F	795	ILE	CB-CA-C	-5.29	105.11	111.88
2	G	153	ILE	CG1-CB-CG2	5.29	126.56	110.70
2	J	153	ILE	CG1-CB-CG2	5.29	126.56	110.70
1	B	976	SER	O-C-N	-5.28	118.66	123.41
2	I	28	PHE	N-CA-C	5.28	116.61	109.11
2	K	28	PHE	N-CA-C	5.28	116.61	109.11
1	C	1177	HIS	CA-CB-CG	5.28	119.08	113.80
1	D	977	ILE	N-CA-C	5.28	117.65	111.05
1	F	977	ILE	N-CA-C	5.28	117.65	111.05
2	I	153	ILE	CG1-CB-CG2	5.28	126.53	110.70
2	K	153	ILE	CG1-CB-CG2	5.28	126.53	110.70
1	C	1445	ASN	N-CA-C	5.28	119.20	112.34
1	F	330	PRO	N-CA-C	-5.28	102.91	111.14
1	A	888	GLY	O-C-N	5.27	129.00	122.78
1	D	1349	ARG	NE-CZ-NH1	-5.27	116.23	121.50
1	E	773	LEU	N-CA-C	-5.27	102.61	110.20
2	H	83	VAL	N-CA-C	-5.27	105.24	110.62
2	L	83	VAL	N-CA-C	-5.27	105.24	110.62
1	A	304	THR	N-CA-C	-5.27	102.59	110.23
1	B	330	PRO	N-CA-C	-5.27	102.92	111.14
1	C	863	LEU	N-CA-C	5.27	118.31	110.14
1	A	782	ARG	CA-CB-CG	-5.27	103.56	114.10
1	B	977	ILE	N-CA-C	5.27	117.64	111.05
1	B	1168	LEU	N-CA-C	5.27	116.98	108.34
1	C	1027	SER	N-CA-C	5.27	122.03	110.80
1	D	1168	LEU	N-CA-C	5.27	116.98	108.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	782	ARG	CA-CB-CG	-5.27	103.56	114.10
1	A	182	MET	CA-C-O	-5.27	115.38	122.44
1	C	182	MET	CA-C-O	-5.27	115.38	122.44
2	G	28	PHE	N-CA-C	5.27	116.59	109.11
2	J	28	PHE	N-CA-C	5.27	116.59	109.11
1	A	1445	ASN	N-CA-C	5.27	119.19	112.34
1	C	782	ARG	CA-CB-CG	-5.27	103.57	114.10
1	D	976	SER	O-C-N	-5.27	118.67	123.41
1	B	875	MET	CA-C-N	-5.26	112.16	120.63
1	B	875	MET	C-N-CA	-5.26	112.16	120.63
1	D	330	PRO	N-CA-C	-5.26	102.93	111.14
1	D	575	VAL	CB-CA-C	-5.26	105.50	111.55
1	C	683	LEU	CA-C-N	-5.26	113.86	122.54
1	C	683	LEU	C-N-CA	-5.26	113.86	122.54
1	F	1168	LEU	N-CA-C	5.26	116.97	108.34
2	H	28	PHE	N-CA-C	5.26	116.58	109.11
2	L	28	PHE	N-CA-C	5.26	116.58	109.11
1	E	182	MET	CA-C-O	-5.26	115.39	122.44
1	F	213	THR	N-CA-CB	-5.26	101.60	110.49
1	C	888	GLY	O-C-N	5.26	128.98	122.78
1	E	502	ASN	CA-C-O	-5.26	115.74	121.89
1	F	875	MET	CA-C-N	-5.26	112.17	120.63
1	F	875	MET	C-N-CA	-5.26	112.17	120.63
1	C	525	ARG	CA-C-N	-5.25	115.75	123.00
1	C	525	ARG	C-N-CA	-5.25	115.75	123.00
1	A	863	LEU	N-CA-C	5.25	118.28	110.14
1	B	1081	ILE	CB-CA-C	-5.25	105.16	112.04
1	A	525	ARG	CA-C-N	-5.25	115.75	123.00
1	A	525	ARG	C-N-CA	-5.25	115.75	123.00
1	D	1081	ILE	CB-CA-C	-5.25	105.16	112.04
1	E	1295	TYR	N-CA-C	5.25	118.99	112.58
1	A	1376	LEU	CA-CB-CG	-5.25	97.93	116.30
1	E	1445	ASN	N-CA-C	5.25	119.17	112.34
1	A	1177	HIS	CA-CB-CG	5.25	119.05	113.80
1	A	1318	ASN	CA-C-N	-5.25	114.33	122.67
1	A	1318	ASN	C-N-CA	-5.25	114.33	122.67
1	C	103	TYR	N-CA-C	5.25	117.63	108.76
1	A	574	PRO	CA-C-O	-5.25	115.39	121.95
1	A	652	THR	N-CA-C	5.25	117.41	111.11
1	A	1027	SER	N-CA-C	5.25	121.97	110.80
1	B	575	VAL	CB-CA-C	-5.25	105.52	111.55
1	C	1376	LEU	CA-CB-CG	-5.25	97.94	116.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1177	HIS	CA-CB-CG	5.25	119.05	113.80
1	F	976	SER	O-C-N	-5.25	118.69	123.41
1	F	1081	ILE	CB-CA-C	-5.25	105.17	112.04
1	D	213	THR	N-CA-CB	-5.25	101.63	110.49
1	E	598	ARG	N-CA-C	-5.25	105.25	110.97
1	E	1376	LEU	CA-CB-CG	-5.25	97.94	116.30
1	B	213	THR	N-CA-CB	-5.24	101.63	110.49
1	B	1371	GLY	N-CA-C	-5.24	103.92	112.83
1	C	598	ARG	N-CA-C	-5.24	105.26	110.97
1	C	1318	ASN	CA-C-N	-5.24	114.33	122.67
1	C	1318	ASN	C-N-CA	-5.24	114.33	122.67
1	E	525	ARG	CA-C-N	-5.24	115.76	123.00
1	E	525	ARG	C-N-CA	-5.24	115.76	123.00
1	B	520	MET	CB-CG-SD	-5.24	96.97	112.70
1	E	304	THR	N-CA-C	-5.24	102.63	110.23
2	I	118	VAL	N-CA-C	-5.24	102.32	109.55
2	K	118	VAL	N-CA-C	-5.24	102.32	109.55
1	C	574	PRO	CA-C-O	-5.24	115.40	121.95
1	C	652	THR	N-CA-C	5.24	117.40	111.11
1	D	520	MET	CB-CG-SD	-5.24	96.98	112.70
1	E	1027	SER	N-CA-C	5.24	121.96	110.80
1	D	1085	LEU	N-CA-C	-5.24	106.72	113.01
1	E	103	TYR	N-CA-C	5.24	117.61	108.76
1	D	824	GLN	N-CA-CB	-5.24	101.78	111.52
1	D	1371	GLY	N-CA-C	-5.24	103.93	112.83
1	E	574	PRO	CA-C-O	-5.24	115.40	121.95
1	E	713	ILE	N-CA-C	5.24	116.29	108.54
2	H	213	ILE	CB-CA-C	-5.23	102.76	110.82
2	L	213	ILE	CB-CA-C	-5.23	102.76	110.82
1	F	824	GLN	N-CA-CB	-5.23	101.79	111.52
2	I	443	ILE	CA-CB-CG1	5.23	119.30	110.40
2	K	443	ILE	CA-CB-CG1	5.23	119.30	110.40
1	A	103	TYR	N-CA-C	5.23	117.60	108.76
1	B	442	MET	CA-C-N	-5.23	115.50	122.72
1	B	442	MET	C-N-CA	-5.23	115.50	122.72
1	E	652	THR	N-CA-C	5.23	117.39	111.11
1	F	1371	GLY	N-CA-C	-5.23	103.94	112.83
1	F	520	MET	CB-CG-SD	-5.23	97.01	112.70
1	E	863	LEU	N-CA-C	5.23	118.24	110.14
1	E	1318	ASN	CA-C-N	-5.23	114.36	122.67
1	E	1318	ASN	C-N-CA	-5.23	114.36	122.67
1	A	598	ARG	N-CA-C	-5.23	105.27	110.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	713	ILE	N-CA-C	5.22	116.27	108.54
1	D	442	MET	CA-C-N	-5.22	115.51	122.72
1	D	442	MET	C-N-CA	-5.22	115.51	122.72
2	H	443	ILE	CA-CB-CG1	5.22	119.28	110.40
2	L	443	ILE	CA-CB-CG1	5.22	119.28	110.40
1	B	603	HIS	CA-C-N	-5.22	115.73	122.99
1	B	603	HIS	C-N-CA	-5.22	115.73	122.99
1	F	442	MET	CA-C-N	-5.22	115.51	122.72
1	F	442	MET	C-N-CA	-5.22	115.51	122.72
1	C	726	GLU	N-CA-C	-5.22	99.94	108.76
1	D	691	LYS	CA-C-N	-5.22	114.26	120.00
1	D	691	LYS	C-N-CA	-5.22	114.26	120.00
1	A	713	ILE	N-CA-C	5.22	116.27	108.54
1	B	230	HIS	N-CA-CB	-5.22	102.26	110.77
1	F	575	VAL	CB-CA-C	-5.22	105.55	111.55
2	G	443	ILE	CA-CB-CG1	5.22	119.27	110.40
2	J	443	ILE	CA-CB-CG1	5.22	119.27	110.40
1	B	824	GLN	N-CA-CB	-5.22	101.82	111.52
1	B	1085	LEU	N-CA-C	-5.22	106.75	113.01
1	C	215	THR	N-CA-C	-5.22	107.58	114.31
1	F	16	SER	N-CA-C	5.22	116.97	111.28
1	F	603	HIS	CA-C-N	-5.22	115.74	122.99
1	F	603	HIS	C-N-CA	-5.22	115.74	122.99
1	A	502	ASN	CA-C-O	-5.21	115.79	121.89
1	A	726	GLU	N-CA-C	-5.21	99.95	108.76
1	A	1339	ALA	CA-C-N	-5.21	113.71	120.91
1	A	1339	ALA	C-N-CA	-5.21	113.71	120.91
1	E	215	THR	N-CA-C	-5.21	107.58	114.31
1	E	726	GLU	N-CA-C	-5.21	99.95	108.76
1	E	1257	PHE	N-CA-C	5.21	119.19	112.41
2	G	118	VAL	N-CA-C	-5.21	102.36	109.55
2	G	213	ILE	CB-CA-C	-5.21	102.79	110.82
2	J	118	VAL	N-CA-C	-5.21	102.36	109.55
2	J	213	ILE	CB-CA-C	-5.21	102.79	110.82
1	A	215	THR	N-CA-C	-5.21	107.59	114.31
1	B	266	VAL	CA-C-N	-5.21	116.14	123.13
1	B	266	VAL	C-N-CA	-5.21	116.14	123.13
1	C	1295	TYR	N-CA-C	5.21	118.94	112.58
1	D	230	HIS	N-CA-CB	-5.21	102.27	110.77
1	F	230	HIS	N-CA-CB	-5.21	102.27	110.77
1	A	1295	TYR	N-CA-C	5.21	118.94	112.58
1	C	1339	ALA	CA-C-N	-5.21	113.72	120.91

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	1339	ALA	C-N-CA	-5.21	113.72	120.91
1	F	1006	ILE	N-CA-C	-5.21	105.31	110.62
1	A	110	VAL	CA-CB-CG1	-5.21	101.55	110.40
1	B	16	SER	N-CA-C	5.21	116.96	111.28
1	B	1006	ILE	N-CA-C	-5.21	105.31	110.62
1	E	823	MET	N-CA-C	-5.21	107.94	114.56
2	H	118	VAL	N-CA-C	-5.21	102.36	109.55
2	L	118	VAL	N-CA-C	-5.21	102.36	109.55
1	A	1196	ALA	N-CA-C	-5.21	103.52	110.55
1	C	502	ASN	CA-C-O	-5.21	115.80	121.89
1	F	691	LYS	CA-C-N	-5.21	114.28	120.00
1	F	691	LYS	C-N-CA	-5.21	114.28	120.00
1	A	823	MET	N-CA-C	-5.20	107.95	114.56
1	C	110	VAL	CA-CB-CG1	-5.20	101.55	110.40
1	B	1465	ARG	N-CA-C	-5.20	106.52	112.92
1	B	691	LYS	CA-C-N	-5.20	114.28	120.00
1	B	691	LYS	C-N-CA	-5.20	114.28	120.00
1	C	823	MET	N-CA-C	-5.20	107.95	114.56
1	D	603	HIS	CA-C-N	-5.20	115.76	122.99
1	D	603	HIS	C-N-CA	-5.20	115.76	122.99
1	E	110	VAL	CA-CB-CG1	-5.20	101.56	110.40
2	G	191	PRO	CA-C-N	5.20	126.64	120.14
2	G	191	PRO	C-N-CA	5.20	126.64	120.14
2	H	83	VAL	CB-CA-C	-5.20	105.12	112.14
2	H	305	VAL	N-CA-C	-5.20	105.43	110.42
2	I	213	ILE	CB-CA-C	-5.20	102.81	110.82
2	I	450	VAL	CB-CA-C	-5.20	105.21	112.02
2	J	191	PRO	CA-C-N	5.20	126.64	120.14
2	J	191	PRO	C-N-CA	5.20	126.64	120.14
2	K	213	ILE	CB-CA-C	-5.20	102.81	110.82
2	K	450	VAL	CB-CA-C	-5.20	105.21	112.02
2	L	83	VAL	CB-CA-C	-5.20	105.12	112.14
2	L	305	VAL	N-CA-C	-5.20	105.43	110.42
1	C	1196	ALA	N-CA-C	-5.20	103.53	110.55
1	D	1017	ASN	N-CA-C	5.20	118.89	111.92
1	D	689	LEU	CA-CB-CG	-5.20	98.11	116.30
1	E	1196	ALA	N-CA-C	-5.20	103.53	110.55
1	A	1257	PHE	N-CA-C	5.20	119.17	112.41
1	D	1006	ILE	N-CA-C	-5.20	105.32	110.62
1	F	266	VAL	CA-C-N	-5.20	116.17	123.13
1	F	266	VAL	C-N-CA	-5.20	116.17	123.13
1	F	1085	LEU	N-CA-C	-5.19	106.78	113.01

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	1465	ARG	N-CA-C	-5.19	106.53	112.92
2	H	450	VAL	CB-CA-C	-5.19	105.22	112.02
2	L	450	VAL	CB-CA-C	-5.19	105.22	112.02
1	A	1096	SER	N-CA-CB	5.19	118.33	110.28
1	C	1096	SER	N-CA-CB	5.19	118.33	110.28
1	E	1096	SER	N-CA-CB	5.19	118.33	110.28
1	E	1339	ALA	CA-C-N	-5.19	113.75	120.91
1	E	1339	ALA	C-N-CA	-5.19	113.75	120.91
1	F	689	LEU	CA-CB-CG	-5.19	98.13	116.30
2	I	191	PRO	CA-C-N	5.19	126.63	120.14
2	I	191	PRO	C-N-CA	5.19	126.63	120.14
2	K	191	PRO	CA-C-N	5.19	126.63	120.14
2	K	191	PRO	C-N-CA	5.19	126.63	120.14
1	C	114	VAL	CB-CA-C	-5.19	102.78	111.29
1	B	230	HIS	CB-CA-C	-5.19	102.15	110.14
1	B	689	LEU	CA-CB-CG	-5.19	98.14	116.30
1	D	16	SER	N-CA-C	5.19	116.94	111.28
1	D	1465	ARG	N-CA-C	-5.19	106.54	112.92
2	I	305	VAL	N-CA-C	-5.19	105.44	110.42
2	K	305	VAL	N-CA-C	-5.19	105.44	110.42
1	A	114	VAL	CB-CA-C	-5.19	102.78	111.29
1	D	469	VAL	CB-CA-C	-5.19	105.06	112.22
1	E	114	VAL	CB-CA-C	-5.19	102.78	111.29
1	F	678	ARG	NE-CZ-NH1	-5.19	116.31	121.50
2	G	305	VAL	N-CA-C	-5.18	105.44	110.42
2	J	305	VAL	N-CA-C	-5.18	105.44	110.42
1	E	934	GLN	CB-CA-C	-5.18	99.47	109.37
1	E	1037	SER	CA-C-O	5.18	125.93	119.97
1	E	728	ILE	O-C-N	-5.18	117.28	123.03
1	A	1037	SER	CA-C-O	5.18	125.93	119.97
1	D	266	VAL	CA-C-N	-5.18	116.19	123.13
1	D	266	VAL	C-N-CA	-5.18	116.19	123.13
2	H	191	PRO	CA-C-N	5.18	126.61	120.14
2	H	191	PRO	C-N-CA	5.18	126.61	120.14
2	L	191	PRO	CA-C-N	5.18	126.61	120.14
2	L	191	PRO	C-N-CA	5.18	126.61	120.14
1	B	469	VAL	CB-CA-C	-5.18	105.08	112.22
1	C	1257	PHE	N-CA-C	5.18	119.14	112.41
1	E	214	ASN	CB-CA-C	-5.18	99.34	111.09
1	F	230	HIS	CB-CA-C	-5.18	102.17	110.14
1	B	678	ARG	NE-CZ-NH1	-5.17	116.33	121.50
1	D	230	HIS	CB-CA-C	-5.17	102.17	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	678	ARG	NE-CZ-NH1	-5.17	116.33	121.50
1	B	507	THR	N-CA-CB	-5.17	102.51	110.01
1	F	469	VAL	CB-CA-C	-5.17	105.08	112.22
1	F	846	ILE	CB-CA-C	-5.17	105.08	112.22
2	G	83	VAL	CB-CA-C	-5.17	105.16	112.14
2	J	83	VAL	CB-CA-C	-5.17	105.16	112.14
1	A	214	ASN	CB-CA-C	-5.17	99.35	111.09
1	C	213	THR	OG1-CB-CG2	-5.17	98.96	109.30
1	D	1027	SER	CB-CA-C	-5.17	100.79	110.36
2	G	450	VAL	CB-CA-C	-5.17	105.24	112.02
2	J	450	VAL	CB-CA-C	-5.17	105.24	112.02
1	A	213	THR	OG1-CB-CG2	-5.17	98.96	109.30
1	A	1435	THR	N-CA-CB	-5.17	103.05	110.65
1	D	507	THR	N-CA-CB	-5.17	102.51	110.01
1	A	934	GLN	CB-CA-C	-5.17	99.50	109.37
1	B	846	ILE	CB-CA-C	-5.17	105.09	112.22
1	C	487	VAL	N-CA-CB	5.17	116.93	110.47
1	D	1244	THR	CA-C-N	-5.17	112.45	120.31
1	D	1244	THR	C-N-CA	-5.17	112.45	120.31
1	A	1308	ARG	CA-C-O	5.17	125.25	120.50
1	C	934	GLN	CB-CA-C	-5.17	99.50	109.37
1	C	1308	ARG	CA-C-O	5.17	125.25	120.50
1	E	1308	ARG	CA-C-O	5.17	125.25	120.50
1	F	1027	SER	CB-CA-C	-5.17	100.80	110.36
2	I	120	ILE	N-CA-CB	5.17	118.33	110.58
2	K	120	ILE	N-CA-CB	5.17	118.33	110.58
1	A	487	VAL	N-CA-CB	5.17	116.93	110.47
1	C	214	ASN	CB-CA-C	-5.17	99.36	111.09
2	I	83	VAL	CB-CA-C	-5.17	105.17	112.14
2	K	83	VAL	CB-CA-C	-5.17	105.17	112.14
1	B	1027	SER	CB-CA-C	-5.16	100.81	110.36
1	C	1435	THR	N-CA-CB	-5.16	103.06	110.65
2	G	120	ILE	N-CA-CB	5.16	118.33	110.58
2	J	120	ILE	N-CA-CB	5.16	118.33	110.58
2	I	258	ILE	CG1-CB-CG2	5.16	126.19	110.70
2	K	258	ILE	CG1-CB-CG2	5.16	126.19	110.70
1	B	1244	THR	CA-C-N	-5.16	112.47	120.31
1	B	1244	THR	C-N-CA	-5.16	112.47	120.31
1	D	651	ASP	N-CA-C	5.16	118.10	110.46
1	D	846	ILE	CB-CA-C	-5.16	105.10	112.22
1	E	1435	THR	N-CA-CB	-5.16	103.06	110.65
1	F	692	GLY	N-CA-C	-5.16	106.16	112.77

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	651	ASP	N-CA-C	5.16	118.10	110.46
1	A	728	ILE	O-C-N	-5.16	117.31	123.03
1	B	1468	VAL	N-CA-C	5.16	112.25	107.56
2	G	258	ILE	CG1-CB-CG2	5.16	126.17	110.70
2	J	258	ILE	CG1-CB-CG2	5.16	126.17	110.70
1	B	651	ASP	N-CA-C	5.15	118.09	110.46
1	E	213	THR	OG1-CB-CG2	-5.15	98.99	109.30
1	B	1017	ASN	N-CA-C	5.15	118.86	112.58
1	F	826	ARG	NE-CZ-NH2	5.15	123.84	119.20
2	H	120	ILE	N-CA-CB	5.15	118.31	110.58
2	L	120	ILE	N-CA-CB	5.15	118.31	110.58
1	A	1064	ARG	CD-NE-CZ	-5.15	117.19	124.40
1	B	692	GLY	N-CA-C	-5.15	106.18	112.77
1	C	1037	SER	CA-C-O	5.15	125.89	119.97
2	H	478	VAL	N-CA-C	-5.15	98.63	109.34
2	I	478	VAL	N-CA-C	-5.15	98.63	109.34
2	K	478	VAL	N-CA-C	-5.15	98.63	109.34
2	L	478	VAL	N-CA-C	-5.15	98.63	109.34
1	C	397	SER	CA-CB-OG	-5.15	100.80	111.10
1	E	907	ILE	CB-CA-C	-5.15	104.30	110.99
1	F	507	THR	N-CA-CB	-5.15	102.55	110.01
1	F	1244	THR	CA-C-N	-5.15	112.48	120.31
1	F	1244	THR	C-N-CA	-5.15	112.48	120.31
1	A	397	SER	CA-CB-OG	-5.15	100.81	111.10
1	C	75	GLN	CA-CB-CG	-5.15	103.81	114.10
1	E	75	GLN	CA-CB-CG	-5.14	103.81	114.10
2	H	258	ILE	CG1-CB-CG2	5.14	126.13	110.70
2	L	258	ILE	CG1-CB-CG2	5.14	126.13	110.70
1	E	397	SER	CA-CB-OG	-5.14	100.82	111.10
1	F	1393	TYR	N-CA-C	-5.14	102.17	110.14
2	G	478	VAL	N-CA-C	-5.14	98.64	109.34
2	J	478	VAL	N-CA-C	-5.14	98.64	109.34
1	D	826	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	A	75	GLN	CA-CB-CG	-5.14	103.82	114.10
1	A	168	TYR	CA-C-N	-5.14	116.58	122.95
1	A	168	TYR	C-N-CA	-5.14	116.58	122.95
1	A	1059	ASN	N-CA-C	-5.14	105.31	112.30
1	B	826	ARG	NE-CZ-NH2	5.14	123.83	119.20
1	D	1393	TYR	N-CA-C	-5.14	102.17	110.14
2	H	367	ILE	N-CA-C	-5.14	100.80	108.46
2	L	367	ILE	N-CA-C	-5.14	100.80	108.46
1	B	1393	TYR	N-CA-C	-5.14	102.18	110.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	1064	ARG	CD-NE-CZ	-5.14	117.21	124.40
1	E	168	TYR	CA-C-N	-5.14	116.58	122.95
1	E	168	TYR	C-N-CA	-5.14	116.58	122.95
1	D	337	ASP	CA-C-N	-5.13	107.74	122.06
1	D	337	ASP	C-N-CA	-5.13	107.74	122.06
1	D	692	GLY	N-CA-C	-5.13	106.20	112.77
1	E	487	VAL	N-CA-CB	5.13	116.89	110.47
1	F	17	VAL	CB-CA-C	-5.13	105.31	112.04
1	F	1017	ASN	N-CA-C	5.13	118.84	112.58
2	I	424	LEU	CD1-CG-CD2	5.13	122.09	110.80
2	K	424	LEU	CD1-CG-CD2	5.13	122.09	110.80
1	A	907	ILE	CB-CA-C	-5.13	104.32	110.99
1	C	635	ASN	N-CA-CB	-5.13	104.11	111.70
1	C	1059	ASN	N-CA-C	-5.13	105.32	112.30
1	D	17	VAL	CB-CA-C	-5.13	105.32	112.04
1	E	1059	ASN	N-CA-C	-5.13	105.32	112.30
1	E	1374	VAL	CB-CA-C	-5.13	102.87	111.29
1	C	168	TYR	CA-C-N	-5.13	116.59	122.95
1	C	168	TYR	C-N-CA	-5.13	116.59	122.95
1	B	1108	CYS	CB-CA-C	5.13	119.57	110.85
1	C	246	ALA	N-CA-C	-5.13	106.97	113.43
1	C	907	ILE	CB-CA-C	-5.13	104.32	110.99
1	D	1042	GLY	N-CA-C	5.13	125.33	113.18
1	E	1064	ARG	CD-NE-CZ	-5.13	117.22	124.40
2	G	424	LEU	CD1-CG-CD2	5.13	122.08	110.80
2	J	424	LEU	CD1-CG-CD2	5.13	122.08	110.80
1	D	1108	CYS	CB-CA-C	5.12	119.56	110.85
1	A	635	ASN	N-CA-CB	-5.12	104.12	111.70
1	B	337	ASP	CA-C-N	-5.12	107.77	122.06
1	B	337	ASP	C-N-CA	-5.12	107.77	122.06
1	A	1374	VAL	CB-CA-C	-5.12	102.89	111.29
1	D	68	ASP	N-CA-C	-5.12	106.19	112.90
1	F	1468	VAL	N-CA-C	5.12	112.22	107.56
1	B	855	THR	N-CA-C	-5.12	101.26	109.04
1	C	728	ILE	O-C-N	-5.12	117.35	123.03
1	F	1108	CYS	CB-CA-C	5.12	119.55	110.85
2	G	367	ILE	N-CA-C	-5.12	100.83	108.46
2	J	367	ILE	N-CA-C	-5.12	100.83	108.46
1	B	17	VAL	CB-CA-C	-5.12	105.34	112.04
1	D	512	ASP	CB-CA-C	-5.12	102.71	111.31
1	F	855	THR	N-CA-C	-5.12	101.26	109.04
1	B	512	ASP	CB-CA-C	-5.12	102.72	111.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	1283	GLY	N-CA-C	-5.12	108.39	114.48
1	E	635	ASN	N-CA-CB	-5.11	104.13	111.70
1	F	686	SER	CA-C-N	5.11	127.61	120.65
1	F	686	SER	C-N-CA	5.11	127.61	120.65
1	A	791	GLU	N-CA-C	-5.11	101.60	109.52
1	B	326	PRO	N-CA-C	5.11	123.00	112.47
1	C	15	ARG	N-CA-C	-5.11	105.40	111.69
1	C	791	GLU	N-CA-C	-5.11	101.60	109.52
1	A	15	ARG	N-CA-C	-5.11	105.41	111.69
1	B	1042	GLY	N-CA-C	5.11	125.29	113.18
1	D	326	PRO	N-CA-C	5.11	123.00	112.47
1	D	1468	VAL	N-CA-C	5.11	112.21	107.56
2	H	424	LEU	CD1-CG-CD2	5.11	122.04	110.80
2	L	424	LEU	CD1-CG-CD2	5.11	122.04	110.80
1	F	326	PRO	N-CA-C	5.11	122.99	112.47
1	F	512	ASP	CB-CA-C	-5.11	102.73	111.31
2	I	367	ILE	N-CA-C	-5.11	100.85	108.46
2	K	367	ILE	N-CA-C	-5.11	100.85	108.46
1	A	160	LYS	CA-C-N	-5.11	113.70	120.13
1	A	160	LYS	C-N-CA	-5.11	113.70	120.13
1	F	337	ASP	CA-C-N	-5.11	107.82	122.06
1	F	337	ASP	C-N-CA	-5.11	107.82	122.06
2	I	188	TYR	CA-CB-CG	5.11	123.09	113.90
2	K	188	TYR	CA-CB-CG	5.11	123.09	113.90
1	E	791	GLU	N-CA-C	-5.10	101.61	109.52
1	B	68	ASP	N-CA-C	-5.10	106.22	112.90
1	C	160	LYS	CA-C-N	-5.10	113.70	120.13
1	C	160	LYS	C-N-CA	-5.10	113.70	120.13
1	E	15	ARG	N-CA-C	-5.10	105.42	111.69
2	H	247	ASP	CA-CB-CG	5.10	117.70	112.60
2	L	247	ASP	CA-CB-CG	5.10	117.70	112.60
1	C	1374	VAL	CB-CA-C	-5.10	102.93	111.29
1	C	1223	PHE	CA-C-N	-5.10	112.74	122.53
1	C	1223	PHE	C-N-CA	-5.10	112.74	122.53
2	I	247	ASP	CA-CB-CG	5.10	117.70	112.60
2	K	247	ASP	CA-CB-CG	5.10	117.70	112.60
1	B	46	ILE	N-CA-C	-5.10	100.55	108.86
1	E	1223	PHE	CA-C-N	-5.10	112.75	122.53
1	E	1223	PHE	C-N-CA	-5.10	112.75	122.53
1	A	246	ALA	N-CA-C	-5.09	107.01	113.43
1	D	148	LEU	CA-C-N	5.09	127.37	120.65
1	D	148	LEU	C-N-CA	5.09	127.37	120.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	G	188	TYR	CA-CB-CG	5.09	123.07	113.90
2	G	247	ASP	CA-CB-CG	5.09	117.69	112.60
2	J	188	TYR	CA-CB-CG	5.09	123.07	113.90
2	J	247	ASP	CA-CB-CG	5.09	117.69	112.60
1	A	830	GLU	CA-C-N	-5.09	115.88	123.11
1	A	830	GLU	C-N-CA	-5.09	115.88	123.11
1	E	286	ARG	NE-CZ-NH1	-5.09	116.41	121.50
1	F	1042	GLY	N-CA-C	5.09	125.25	113.18
1	F	1258	GLY	CA-C-N	-5.09	115.55	122.93
1	F	1258	GLY	C-N-CA	-5.09	115.55	122.93
1	F	1466	LEU	CA-CB-CG	5.09	134.12	116.30
2	H	188	TYR	CA-CB-CG	5.09	123.06	113.90
2	H	436	GLY	CA-C-N	-5.09	116.53	123.10
2	H	436	GLY	C-N-CA	-5.09	116.53	123.10
2	L	188	TYR	CA-CB-CG	5.09	123.06	113.90
2	L	436	GLY	CA-C-N	-5.09	116.53	123.10
2	L	436	GLY	C-N-CA	-5.09	116.53	123.10
1	A	1223	PHE	CA-C-N	-5.09	112.76	122.53
1	A	1223	PHE	C-N-CA	-5.09	112.76	122.53
1	B	148	LEU	CA-C-N	5.09	127.37	120.65
1	B	148	LEU	C-N-CA	5.09	127.37	120.65
1	B	686	SER	CA-C-N	5.09	127.57	120.65
1	B	686	SER	C-N-CA	5.09	127.57	120.65
1	D	1466	LEU	CA-CB-CG	5.09	134.11	116.30
1	F	68	ASP	N-CA-C	-5.09	106.23	112.90
1	F	46	ILE	N-CA-C	-5.09	100.57	108.86
1	F	544	GLN	N-CA-C	5.09	117.36	108.76
1	B	1466	LEU	CA-CB-CG	5.09	134.10	116.30
1	C	1194	GLU	N-CA-C	5.09	117.81	110.28
1	D	855	THR	N-CA-C	-5.09	101.31	109.04
1	B	544	GLN	N-CA-C	5.08	117.35	108.76
1	E	160	LYS	CA-C-N	-5.08	113.72	120.13
1	E	160	LYS	C-N-CA	-5.08	113.72	120.13
1	E	576	ASP	N-CA-C	-5.08	106.77	112.87
1	D	1258	GLY	CA-C-N	-5.08	115.56	122.93
1	D	1258	GLY	C-N-CA	-5.08	115.56	122.93
2	I	436	GLY	CA-C-N	-5.08	116.54	123.10
2	I	436	GLY	C-N-CA	-5.08	116.54	123.10
2	K	436	GLY	CA-C-N	-5.08	116.54	123.10
2	K	436	GLY	C-N-CA	-5.08	116.54	123.10
1	F	821	PRO	N-CA-C	-5.08	104.50	110.70
1	A	1194	GLU	N-CA-C	5.08	117.80	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	D	46	ILE	N-CA-C	-5.08	100.58	108.86
1	D	544	GLN	N-CA-C	5.08	117.34	108.76
1	E	830	GLU	CA-C-N	-5.08	115.90	123.11
1	E	830	GLU	C-N-CA	-5.08	115.90	123.11
2	G	125	LYS	N-CA-CB	5.08	117.38	110.01
2	H	125	LYS	N-CA-CB	5.08	117.37	110.01
2	I	113	SER	CA-C-N	5.08	127.04	120.44
2	I	113	SER	C-N-CA	5.08	127.04	120.44
2	J	125	LYS	N-CA-CB	5.08	117.38	110.01
2	K	113	SER	CA-C-N	5.08	127.04	120.44
2	K	113	SER	C-N-CA	5.08	127.04	120.44
2	L	125	LYS	N-CA-CB	5.08	117.37	110.01
1	B	1258	GLY	CA-C-N	-5.08	115.57	122.93
1	B	1258	GLY	C-N-CA	-5.08	115.57	122.93
1	D	178	ILE	N-CA-C	5.08	115.28	107.77
1	D	1030	THR	N-CA-C	-5.08	100.80	108.52
1	E	352	PRO	CB-CA-C	-5.08	104.57	111.12
1	C	830	GLU	CA-C-N	-5.08	115.90	123.11
1	C	830	GLU	C-N-CA	-5.08	115.90	123.11
1	F	178	ILE	N-CA-C	5.08	115.28	107.77
1	A	576	ASP	N-CA-C	-5.07	106.78	112.87
1	E	246	ALA	N-CA-C	-5.07	107.04	113.43
2	G	113	SER	CA-C-N	5.07	127.03	120.44
2	G	113	SER	C-N-CA	5.07	127.03	120.44
2	H	113	SER	CA-C-N	5.07	127.04	120.44
2	H	113	SER	C-N-CA	5.07	127.04	120.44
2	J	113	SER	CA-C-N	5.07	127.03	120.44
2	J	113	SER	C-N-CA	5.07	127.03	120.44
2	L	113	SER	CA-C-N	5.07	127.04	120.44
2	L	113	SER	C-N-CA	5.07	127.04	120.44
1	C	352	PRO	CB-CA-C	-5.07	104.58	111.12
1	A	286	ARG	NE-CZ-NH1	-5.07	116.43	121.50
1	A	835	LYS	CD-CE-NZ	5.07	128.12	111.90
1	B	178	ILE	N-CA-C	5.07	115.27	107.77
2	G	436	GLY	CA-C-N	-5.07	116.56	123.10
2	G	436	GLY	C-N-CA	-5.07	116.56	123.10
2	J	436	GLY	CA-C-N	-5.07	116.56	123.10
2	J	436	GLY	C-N-CA	-5.07	116.56	123.10
1	B	547	SER	O-C-N	-5.07	118.30	121.85
1	C	157	LYS	N-CA-C	5.07	116.89	111.36
2	G	350	PRO	CB-CA-C	5.07	117.62	110.98
2	J	350	PRO	CB-CA-C	5.07	117.62	110.98

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	148	LEU	CA-C-N	5.07	127.34	120.65
1	F	148	LEU	C-N-CA	5.07	127.34	120.65
1	A	352	PRO	CB-CA-C	-5.07	104.58	111.12
1	A	1283	GLY	N-CA-C	-5.07	108.45	114.48
1	C	835	LYS	CD-CE-NZ	5.07	128.11	111.90
1	F	1030	THR	N-CA-C	-5.07	100.82	108.52
1	B	8	ALA	N-CA-C	-5.06	100.91	108.96
1	B	821	PRO	N-CA-C	-5.06	104.53	110.70
1	B	1030	THR	N-CA-C	-5.06	100.82	108.52
1	E	835	LYS	CD-CE-NZ	5.06	128.10	111.90
1	F	547	SER	O-C-N	-5.06	118.31	121.85
2	H	28	PHE	CB-CA-C	-5.06	103.97	111.72
2	I	125	LYS	N-CA-CB	5.06	117.35	110.01
2	K	125	LYS	N-CA-CB	5.06	117.35	110.01
2	L	28	PHE	CB-CA-C	-5.06	103.97	111.72
1	A	1059	ASN	CB-CA-C	-5.06	102.55	110.85
1	D	686	SER	CA-C-N	5.06	127.53	120.65
1	D	686	SER	C-N-CA	5.06	127.53	120.65
1	D	821	PRO	N-CA-C	-5.06	104.53	110.70
1	C	1283	GLY	N-CA-C	-5.06	108.46	114.48
1	F	602	THR	OG1-CB-CG2	-5.06	99.18	109.30
1	C	576	ASP	N-CA-C	-5.06	106.80	112.87
1	D	8	ALA	N-CA-C	-5.06	100.92	108.96
1	C	1059	ASN	CB-CA-C	-5.05	102.56	110.85
1	C	557	ALA	CA-C-N	5.05	127.32	120.65
1	C	557	ALA	C-N-CA	5.05	127.32	120.65
1	E	1059	ASN	CB-CA-C	-5.05	102.56	110.85
2	H	350	PRO	CB-CA-C	5.05	117.60	110.98
2	I	350	PRO	CB-CA-C	5.05	117.60	110.98
2	K	350	PRO	CB-CA-C	5.05	117.60	110.98
2	L	350	PRO	CB-CA-C	5.05	117.60	110.98
1	A	936	ALA	N-CA-C	-5.05	105.48	111.69
1	A	1049	LEU	CA-C-N	-5.05	113.88	120.44
1	A	1049	LEU	C-N-CA	-5.05	113.88	120.44
1	B	564	ASP	N-CA-C	-5.05	105.90	111.71
1	C	731	SER	N-CA-C	5.05	117.75	110.28
1	C	1049	LEU	CA-C-N	-5.05	113.88	120.44
1	C	1049	LEU	C-N-CA	-5.05	113.88	120.44
1	D	547	SER	O-C-N	-5.05	118.32	121.85
2	G	28	PHE	CB-CA-C	-5.05	104.00	111.72
2	J	28	PHE	CB-CA-C	-5.05	104.00	111.72
1	E	1194	GLU	N-CA-C	5.05	117.75	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	8	ALA	N-CA-C	-5.05	100.93	108.96
1	A	167	PHE	N-CA-C	-5.05	102.05	110.17
1	B	602	THR	OG1-CB-CG2	-5.05	99.21	109.30
1	E	182	MET	CA-CB-CG	-5.05	104.01	114.10
1	E	731	SER	N-CA-C	5.05	117.75	110.28
1	F	342	VAL	CB-CA-C	-5.05	102.73	110.50
1	E	936	ALA	N-CA-C	-5.04	105.48	111.69
1	A	157	LYS	N-CA-C	5.04	116.86	111.36
1	E	157	LYS	N-CA-C	5.04	116.86	111.36
1	A	731	SER	N-CA-C	5.04	117.74	110.28
1	A	968	PRO	N-CA-C	-5.04	104.55	110.70
1	C	167	PHE	N-CA-C	-5.04	102.05	110.17
1	C	182	MET	CA-CB-CG	-5.04	104.02	114.10
2	G	110	ILE	N-CA-C	-5.04	106.45	113.00
2	G	383	ILE	CG1-CB-CG2	5.04	125.82	110.70
2	I	129	ASP	CA-CB-CG	-5.04	107.56	112.60
2	I	219	GLU	CB-CG-CD	-5.04	104.03	112.60
2	J	110	ILE	N-CA-C	-5.04	106.45	113.00
2	J	383	ILE	CG1-CB-CG2	5.04	125.82	110.70
2	K	129	ASP	CA-CB-CG	-5.04	107.56	112.60
2	K	219	GLU	CB-CG-CD	-5.04	104.03	112.60
1	A	182	MET	CA-CB-CG	-5.04	104.02	114.10
1	E	557	ALA	CA-C-N	5.04	127.30	120.65
1	E	557	ALA	C-N-CA	5.04	127.30	120.65
1	E	968	PRO	N-CA-C	-5.04	104.55	110.70
1	F	1069	THR	N-CA-C	5.04	116.85	109.24
1	D	602	THR	OG1-CB-CG2	-5.04	99.23	109.30
2	G	129	ASP	CA-CB-CG	-5.04	107.56	112.60
2	H	383	ILE	CG1-CB-CG2	5.04	125.81	110.70
2	J	129	ASP	CA-CB-CG	-5.04	107.56	112.60
2	L	383	ILE	CG1-CB-CG2	5.04	125.81	110.70
1	C	91	CYS	CA-CB-SG	-5.04	102.82	114.40
1	E	167	PHE	N-CA-C	-5.04	102.06	110.17
2	H	58	HIS	CA-CB-CG	5.04	118.84	113.80
2	I	383	ILE	CG1-CB-CG2	5.04	125.81	110.70
2	K	383	ILE	CG1-CB-CG2	5.04	125.81	110.70
2	L	58	HIS	CA-CB-CG	5.04	118.84	113.80
1	C	358	THR	N-CA-C	5.03	117.54	110.14
1	C	968	PRO	N-CA-C	-5.03	104.56	110.70
1	A	91	CYS	CA-CB-SG	-5.03	102.83	114.40
1	E	1419	HIS	N-CA-C	-5.03	106.99	113.23
1	F	564	ASP	N-CA-C	-5.03	105.92	111.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	557	ALA	CA-C-N	5.03	127.29	120.65
1	A	557	ALA	C-N-CA	5.03	127.29	120.65
1	D	288	GLY	CA-C-N	-5.03	114.64	122.09
1	D	288	GLY	C-N-CA	-5.03	114.64	122.09
1	E	1049	LEU	CA-C-N	-5.03	113.90	120.44
1	E	1049	LEU	C-N-CA	-5.03	113.90	120.44
1	F	76	VAL	N-CA-C	5.03	117.06	108.86
2	I	58	HIS	CA-CB-CG	5.03	118.83	113.80
2	I	110	ILE	N-CA-C	-5.03	106.46	113.00
2	K	58	HIS	CA-CB-CG	5.03	118.83	113.80
2	K	110	ILE	N-CA-C	-5.03	106.46	113.00
1	B	342	VAL	CB-CA-C	-5.03	102.76	110.50
1	B	1069	THR	N-CA-C	5.03	116.83	109.24
1	C	286	ARG	NE-CZ-NH1	-5.03	116.47	121.50
1	D	1069	THR	N-CA-C	5.03	116.83	109.24
1	A	358	THR	N-CA-C	5.03	117.53	110.14
1	C	1026	ASN	N-CA-C	-5.03	105.88	111.36
1	D	155	ILE	O-C-N	5.03	127.13	121.90
1	D	1464	ASN	CA-C-N	-5.03	114.61	122.65
1	D	1464	ASN	C-N-CA	-5.03	114.61	122.65
1	F	1464	ASN	CA-C-N	-5.03	114.61	122.65
1	F	1464	ASN	C-N-CA	-5.03	114.61	122.65
2	H	129	ASP	CA-CB-CG	-5.03	107.57	112.60
2	I	365	VAL	CB-CA-C	-5.03	105.77	111.55
2	K	365	VAL	CB-CA-C	-5.03	105.77	111.55
2	L	129	ASP	CA-CB-CG	-5.03	107.57	112.60
1	F	155	ILE	O-C-N	5.03	127.13	121.90
2	G	219	GLU	CB-CG-CD	-5.03	104.06	112.60
2	I	28	PHE	CB-CA-C	-5.03	104.03	111.72
2	J	219	GLU	CB-CG-CD	-5.03	104.06	112.60
2	K	28	PHE	CB-CA-C	-5.03	104.03	111.72
2	H	219	GLU	CB-CG-CD	-5.02	104.06	112.60
2	L	219	GLU	CB-CG-CD	-5.02	104.06	112.60
1	A	18	VAL	CB-CA-C	-5.02	105.46	112.04
1	C	342	VAL	CB-CA-C	-5.02	102.77	110.50
1	E	91	CYS	CA-CB-SG	-5.02	102.85	114.40
1	C	936	ALA	N-CA-C	-5.02	105.52	111.69
1	D	342	VAL	CB-CA-C	-5.02	102.77	110.50
1	E	90	ARG	N-CA-CB	5.02	117.95	110.22
1	F	1062	ARG	NE-CZ-NH2	5.02	123.72	119.20
1	A	90	ARG	N-CA-CB	5.02	117.95	110.22
1	A	342	VAL	CB-CA-C	-5.02	102.77	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	155	ILE	O-C-N	5.02	127.12	121.90
1	E	342	VAL	CB-CA-C	-5.02	102.77	110.50
2	G	58	HIS	CA-CB-CG	5.02	118.82	113.80
2	J	58	HIS	CA-CB-CG	5.02	118.82	113.80
2	G	375	THR	N-CA-C	-5.02	102.59	110.17
2	J	375	THR	N-CA-C	-5.02	102.59	110.17
1	A	112	ILE	CA-C-N	-5.01	115.56	123.13
1	A	112	ILE	C-N-CA	-5.01	115.56	123.13
1	C	18	VAL	CB-CA-C	-5.01	105.47	112.04
1	E	18	VAL	CB-CA-C	-5.01	105.47	112.04
1	F	490	ASP	CB-CA-C	-5.01	101.04	110.67
2	I	375	THR	N-CA-C	-5.01	102.60	110.17
2	K	375	THR	N-CA-C	-5.01	102.60	110.17
1	B	1464	ASN	CA-C-N	-5.01	114.63	122.65
1	B	1464	ASN	C-N-CA	-5.01	114.63	122.65
1	D	564	ASP	N-CA-C	-5.01	105.94	111.71
1	B	1062	ARG	NE-CZ-NH2	5.01	123.71	119.20
1	C	112	ILE	CA-C-N	-5.01	115.56	123.13
1	C	112	ILE	C-N-CA	-5.01	115.56	123.13
1	D	835	LYS	CD-CE-NZ	5.01	127.93	111.90
1	D	882	SER	CA-C-N	-5.01	115.75	123.07
1	D	882	SER	C-N-CA	-5.01	115.75	123.07
1	E	358	THR	N-CA-C	5.01	117.51	110.14
1	F	882	SER	CA-C-N	-5.01	115.75	123.07
1	F	882	SER	C-N-CA	-5.01	115.75	123.07
2	G	365	VAL	CB-CA-C	-5.01	105.79	111.55
2	J	365	VAL	CB-CA-C	-5.01	105.79	111.55
1	B	835	LYS	CD-CE-NZ	5.01	127.93	111.90
1	D	212	SER	O-C-N	5.01	128.42	123.46
1	F	835	LYS	CD-CE-NZ	5.01	127.93	111.90
1	B	661	VAL	N-CA-C	-5.01	98.92	109.34
1	B	76	VAL	N-CA-C	5.01	117.02	108.86
1	B	882	SER	CA-C-N	-5.01	115.76	123.07
1	B	882	SER	C-N-CA	-5.01	115.76	123.07
1	C	1289	MET	CB-CA-C	-5.01	102.59	111.05
1	D	1062	ARG	NE-CZ-NH2	5.01	123.70	119.20
1	E	112	ILE	CA-C-N	-5.01	115.57	123.13
1	E	112	ILE	C-N-CA	-5.01	115.57	123.13
1	B	490	ASP	CB-CA-C	-5.00	101.06	110.67
2	G	257	ASN	CB-CA-C	-5.00	100.46	110.42
2	J	257	ASN	CB-CA-C	-5.00	100.46	110.42
1	A	1289	MET	CB-CA-C	-5.00	102.59	111.05

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	110	ILE	N-CA-C	-5.00	106.49	113.00
2	H	365	VAL	CB-CA-C	-5.00	105.80	111.55
2	L	110	ILE	N-CA-C	-5.00	106.49	113.00
2	L	365	VAL	CB-CA-C	-5.00	105.80	111.55
1	D	521	SER	N-CA-C	5.00	116.02	108.07
1	F	1269	ARG	CG-CD-NE	-5.00	101.00	112.00
2	I	257	ASN	CB-CA-C	-5.00	100.47	110.42
2	K	257	ASN	CB-CA-C	-5.00	100.47	110.42

All (3) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	915	PHE	CA
1	C	915	PHE	CA
1	E	915	PHE	CA

All (201) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	1002	SER	Mainchain
1	A	1171	VAL	Peptide
1	A	325	GLU	Mainchain
1	B	1168	LEU	Mainchain
1	B	725	PHE	Mainchain
1	C	1002	SER	Mainchain
1	C	1171	VAL	Peptide
1	C	325	GLU	Mainchain
1	D	1168	LEU	Mainchain
1	D	725	PHE	Mainchain
1	E	1002	SER	Mainchain
1	E	1171	VAL	Peptide
1	E	325	GLU	Mainchain
1	F	1168	LEU	Mainchain
1	F	725	PHE	Mainchain
2	G	102	ARG	Sidechain
2	G	140	ARG	Sidechain
2	G	144	ARG	Sidechain
2	G	167	ARG	Sidechain
2	G	178	ARG	Sidechain
2	G	181	ARG	Sidechain
2	G	202	ARG	Sidechain
2	G	203	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	G	222	ARG	Sidechain
2	G	230	ARG	Sidechain
2	G	231	ARG	Sidechain
2	G	246	ARG	Sidechain
2	G	306	ARG	Sidechain
2	G	310	ARG	Sidechain
2	G	321	ARG	Sidechain
2	G	322	ARG	Sidechain
2	G	324	ARG	Sidechain
2	G	332	ARG	Sidechain
2	G	34	ARG	Sidechain
2	G	363	ARG	Sidechain
2	G	366	ARG	Sidechain
2	G	377	ARG	Sidechain
2	G	39	ARG	Sidechain
2	G	419	ARG	Sidechain
2	G	428	ARG	Sidechain
2	G	445	ARG	Sidechain
2	G	455	ARG	Sidechain
2	G	458	ARG	Sidechain
2	G	46	ARG	Sidechain
2	G	76	ARG	Sidechain
2	G	96	ARG	Sidechain
2	H	102	ARG	Sidechain
2	H	140	ARG	Sidechain
2	H	144	ARG	Sidechain
2	H	167	ARG	Sidechain
2	H	178	ARG	Sidechain
2	H	181	ARG	Sidechain
2	H	202	ARG	Sidechain
2	H	203	ARG	Sidechain
2	H	222	ARG	Sidechain
2	H	230	ARG	Sidechain
2	H	231	ARG	Sidechain
2	H	246	ARG	Sidechain
2	H	306	ARG	Sidechain
2	H	310	ARG	Sidechain
2	H	321	ARG	Sidechain
2	H	322	ARG	Sidechain
2	H	324	ARG	Sidechain
2	H	332	ARG	Sidechain
2	H	34	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	H	363	ARG	Sidechain
2	H	366	ARG	Sidechain
2	H	377	ARG	Sidechain
2	H	39	ARG	Sidechain
2	H	419	ARG	Sidechain
2	H	428	ARG	Sidechain
2	H	445	ARG	Sidechain
2	H	455	ARG	Sidechain
2	H	458	ARG	Sidechain
2	H	46	ARG	Sidechain
2	H	76	ARG	Sidechain
2	H	96	ARG	Sidechain
2	I	102	ARG	Sidechain
2	I	140	ARG	Sidechain
2	I	144	ARG	Sidechain
2	I	167	ARG	Sidechain
2	I	178	ARG	Sidechain
2	I	181	ARG	Sidechain
2	I	202	ARG	Sidechain
2	I	203	ARG	Sidechain
2	I	222	ARG	Sidechain
2	I	230	ARG	Sidechain
2	I	231	ARG	Sidechain
2	I	246	ARG	Sidechain
2	I	306	ARG	Sidechain
2	I	310	ARG	Sidechain
2	I	321	ARG	Sidechain
2	I	322	ARG	Sidechain
2	I	324	ARG	Sidechain
2	I	332	ARG	Sidechain
2	I	34	ARG	Sidechain
2	I	363	ARG	Sidechain
2	I	366	ARG	Sidechain
2	I	377	ARG	Sidechain
2	I	39	ARG	Sidechain
2	I	419	ARG	Sidechain
2	I	428	ARG	Sidechain
2	I	445	ARG	Sidechain
2	I	455	ARG	Sidechain
2	I	458	ARG	Sidechain
2	I	46	ARG	Sidechain
2	I	76	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	I	96	ARG	Sidechain
2	J	102	ARG	Sidechain
2	J	140	ARG	Sidechain
2	J	144	ARG	Sidechain
2	J	167	ARG	Sidechain
2	J	178	ARG	Sidechain
2	J	181	ARG	Sidechain
2	J	202	ARG	Sidechain
2	J	203	ARG	Sidechain
2	J	222	ARG	Sidechain
2	J	230	ARG	Sidechain
2	J	231	ARG	Sidechain
2	J	246	ARG	Sidechain
2	J	306	ARG	Sidechain
2	J	310	ARG	Sidechain
2	J	321	ARG	Sidechain
2	J	322	ARG	Sidechain
2	J	324	ARG	Sidechain
2	J	332	ARG	Sidechain
2	J	34	ARG	Sidechain
2	J	363	ARG	Sidechain
2	J	366	ARG	Sidechain
2	J	377	ARG	Sidechain
2	J	39	ARG	Sidechain
2	J	419	ARG	Sidechain
2	J	428	ARG	Sidechain
2	J	445	ARG	Sidechain
2	J	455	ARG	Sidechain
2	J	458	ARG	Sidechain
2	J	46	ARG	Sidechain
2	J	76	ARG	Sidechain
2	J	96	ARG	Sidechain
2	K	102	ARG	Sidechain
2	K	140	ARG	Sidechain
2	K	144	ARG	Sidechain
2	K	167	ARG	Sidechain
2	K	178	ARG	Sidechain
2	K	181	ARG	Sidechain
2	K	202	ARG	Sidechain
2	K	203	ARG	Sidechain
2	K	222	ARG	Sidechain
2	K	230	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	K	231	ARG	Sidechain
2	K	246	ARG	Sidechain
2	K	306	ARG	Sidechain
2	K	310	ARG	Sidechain
2	K	321	ARG	Sidechain
2	K	322	ARG	Sidechain
2	K	324	ARG	Sidechain
2	K	332	ARG	Sidechain
2	K	34	ARG	Sidechain
2	K	363	ARG	Sidechain
2	K	366	ARG	Sidechain
2	K	377	ARG	Sidechain
2	K	39	ARG	Sidechain
2	K	419	ARG	Sidechain
2	K	428	ARG	Sidechain
2	K	445	ARG	Sidechain
2	K	455	ARG	Sidechain
2	K	458	ARG	Sidechain
2	K	46	ARG	Sidechain
2	K	76	ARG	Sidechain
2	K	96	ARG	Sidechain
2	L	102	ARG	Sidechain
2	L	140	ARG	Sidechain
2	L	144	ARG	Sidechain
2	L	167	ARG	Sidechain
2	L	178	ARG	Sidechain
2	L	181	ARG	Sidechain
2	L	202	ARG	Sidechain
2	L	203	ARG	Sidechain
2	L	222	ARG	Sidechain
2	L	230	ARG	Sidechain
2	L	231	ARG	Sidechain
2	L	246	ARG	Sidechain
2	L	306	ARG	Sidechain
2	L	310	ARG	Sidechain
2	L	321	ARG	Sidechain
2	L	322	ARG	Sidechain
2	L	324	ARG	Sidechain
2	L	332	ARG	Sidechain
2	L	34	ARG	Sidechain
2	L	363	ARG	Sidechain
2	L	366	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	L	377	ARG	Sidechain
2	L	39	ARG	Sidechain
2	L	419	ARG	Sidechain
2	L	428	ARG	Sidechain
2	L	445	ARG	Sidechain
2	L	455	ARG	Sidechain
2	L	458	ARG	Sidechain
2	L	46	ARG	Sidechain
2	L	76	ARG	Sidechain
2	L	96	ARG	Sidechain

5.2 Too-close contacts (i)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	11337	0	11347	1845	0
1	B	11337	0	11350	1645	0
1	C	11337	0	11347	1850	0
1	D	11337	0	11350	1640	0
1	E	11337	0	11347	1864	0
1	F	11337	0	11350	1631	0
2	G	3468	0	3397	1119	0
2	H	3468	0	3397	1113	0
2	I	3468	0	3397	1118	0
2	J	3468	0	3399	1104	0
2	K	3468	0	3399	1101	0
2	L	3468	0	3399	1110	0
3	A	11	0	10	3	0
3	B	11	0	10	2	0
3	C	11	0	10	3	0
3	D	11	0	10	2	0
3	E	11	0	10	3	0
3	F	11	0	10	2	0
4	A	31	0	19	5	0
4	B	31	0	19	8	0
4	C	31	0	19	4	0
4	D	31	0	19	8	0
4	E	31	0	19	5	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	F	31	0	19	7	0
5	A	10	0	4	0	0
5	B	10	0	4	2	0
5	C	10	0	4	0	0
5	D	10	0	4	3	0
5	E	10	0	4	0	0
5	F	10	0	4	2	0
6	A	7	0	0	3	0
6	B	7	0	0	3	0
6	C	7	0	0	3	0
6	D	7	0	0	3	0
6	E	7	0	0	4	0
6	F	7	0	0	3	0
7	G	16	0	0	3	0
7	H	16	0	0	3	0
7	I	16	0	0	3	0
7	J	16	0	0	3	0
7	K	16	0	0	3	0
7	L	16	0	0	3	0
8	G	53	0	31	17	0
8	H	53	0	31	17	0
8	I	53	0	31	17	0
8	J	53	0	31	17	0
8	K	53	0	31	17	0
8	L	53	0	31	17	0
All	All	89598	0	88863	16132	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 90.

All (16132) 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:1263:HIS:CE1	1:D:900:GLY:CA	1.77	1.66
1:A:782:ARG:CG	2:J:53:PRO:HD2	1.19	1.65
1:E:782:ARG:CG	2:L:53:PRO:HD2	1.19	1.64
1:C:875:MET:HE1	1:C:1139:PHE:CE2	1.35	1.62
1:F:182:MET:CE	1:F:217:PRO:HB2	1.30	1.61
1:A:902:ASN:HB2	1:C:1227:GLU:CG	1.13	1.61
1:C:782:ARG:CG	2:K:53:PRO:HD2	1.19	1.61
1:E:782:ARG:HG2	2:L:53:PRO:CD	1.14	1.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1263:HIS:CE1	1:F:900:GLY:CA	1.77	1.60
1:D:182:MET:CE	1:D:217:PRO:HB2	1.30	1.59
1:A:902:ASN:CB	1:C:1227:GLU:HG2	1.27	1.59
1:E:875:MET:HE1	1:E:1139:PHE:CE2	1.35	1.59
1:C:182:MET:HE3	1:C:217:PRO:CB	1.18	1.58
1:F:1449:ARG:HH11	1:F:1449:ARG:CB	0.97	1.58
1:A:1227:GLU:HG2	1:E:902:ASN:CB	1.27	1.58
1:A:182:MET:HE3	1:A:217:PRO:CB	1.18	1.57
1:B:900:GLY:CA	1:F:1263:HIS:CE1	1.77	1.57
1:E:182:MET:HE3	1:E:217:PRO:CB	1.18	1.57
1:A:782:ARG:HG2	2:J:53:PRO:CD	1.14	1.56
1:B:1449:ARG:HH11	1:B:1449:ARG:CB	0.97	1.56
1:D:1449:ARG:HH11	1:D:1449:ARG:CB	0.97	1.56
1:A:1227:GLU:CD	1:E:902:ASN:HB3	1.28	1.55
1:D:1263:HIS:CE1	1:F:900:GLY:HA3	1.07	1.55
1:B:900:GLY:HA3	1:F:1263:HIS:CE1	1.07	1.55
1:B:1263:HIS:CE1	1:D:900:GLY:HA3	1.07	1.55
1:C:782:ARG:HG2	2:K:53:PRO:CD	1.14	1.55
1:C:902:ASN:HB2	1:E:1227:GLU:CG	1.13	1.54
1:C:902:ASN:CB	1:E:1227:GLU:HG2	1.27	1.54
1:A:875:MET:HE1	1:A:1139:PHE:CE2	1.35	1.54
1:B:182:MET:CE	1:B:217:PRO:HB2	1.30	1.54
1:A:1227:GLU:CG	1:E:902:ASN:HB2	1.13	1.54
1:A:1227:GLU:CG	1:E:902:ASN:CB	1.80	1.53
1:A:1438:ARG:CG	2:L:376:GLY:HA2	1.24	1.52
1:C:902:ASN:HB3	1:E:1227:GLU:CD	1.28	1.50
1:A:902:ASN:HB3	1:C:1227:GLU:CD	1.28	1.49
1:F:182:MET:HE3	1:F:217:PRO:CB	1.01	1.49
1:D:182:MET:HE3	1:D:217:PRO:CB	1.01	1.48
1:E:1449:ARG:HB2	1:E:1449:ARG:NH1	1.18	1.48
1:C:1438:ARG:CG	2:J:376:GLY:CA	1.84	1.47
1:D:1289:MET:SD	1:D:1289:MET:CE	2.02	1.47
1:F:1289:MET:SD	1:F:1289:MET:CE	2.02	1.47
1:B:182:MET:HE3	1:B:217:PRO:CB	1.01	1.47
1:C:182:MET:CE	1:C:217:PRO:HB2	1.45	1.46
1:C:1438:ARG:CG	2:J:376:GLY:HA2	1.24	1.46
1:F:782:ARG:CG	2:I:53:PRO:HD2	1.23	1.46
1:A:182:MET:CE	1:A:217:PRO:HB2	1.45	1.46
1:B:1289:MET:SD	1:B:1289:MET:CE	2.02	1.46
1:D:782:ARG:CG	2:H:53:PRO:HD2	1.23	1.45
1:A:1449:ARG:HB2	1:A:1449:ARG:NH1	1.18	1.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:522:LEU:HD21	1:E:705:LEU:CD2	1.48	1.44
1:A:902:ASN:CB	1:C:1227:GLU:CG	1.80	1.44
1:A:1449:ARG:HH11	1:A:1449:ARG:CB	1.31	1.44
1:E:1449:ARG:HH11	1:E:1449:ARG:CB	1.31	1.43
1:C:522:LEU:HD21	1:C:705:LEU:CD2	1.48	1.43
1:C:902:ASN:CB	1:E:1227:GLU:CG	1.80	1.43
1:A:522:LEU:HD21	1:A:705:LEU:CD2	1.48	1.42
1:C:1449:ARG:HB2	1:C:1449:ARG:NH1	1.18	1.42
1:C:1449:ARG:HH11	1:C:1449:ARG:CB	1.31	1.42
1:A:253:HIS:ND1	1:A:254:PRO:HD2	1.17	1.42
1:A:782:ARG:CG	2:J:52:VAL:HA	1.27	1.41
1:E:182:MET:CE	1:E:217:PRO:HB2	1.45	1.41
1:F:782:ARG:HG2	2:I:53:PRO:CD	0.94	1.41
1:A:825:LEU:CD1	1:A:1186:ARG:HH12	1.31	1.41
1:B:782:ARG:CG	2:G:53:PRO:HD2	1.23	1.41
1:E:253:HIS:ND1	1:E:254:PRO:HD2	1.17	1.41
1:E:1438:ARG:CG	2:K:376:GLY:CA	1.84	1.41
1:E:825:LEU:CD1	1:E:1186:ARG:HH12	1.31	1.41
1:D:782:ARG:HG2	2:H:53:PRO:CD	0.93	1.40
1:C:825:LEU:CD1	1:C:1186:ARG:HH12	1.31	1.40
1:C:900:GLY:HA3	1:E:1263:HIS:NE2	1.35	1.40
1:C:253:HIS:ND1	1:C:254:PRO:HD2	1.17	1.40
1:C:782:ARG:HG3	2:K:52:VAL:CA	1.09	1.40
1:B:782:ARG:HG2	2:G:53:PRO:CD	0.94	1.39
1:A:900:GLY:HA3	1:C:1263:HIS:NE2	1.35	1.39
1:C:902:ASN:CB	1:E:1227:GLU:CD	1.93	1.39
1:A:1438:ARG:CG	2:L:376:GLY:CA	1.84	1.39
1:E:1438:ARG:CG	2:K:376:GLY:HA2	1.24	1.39
1:E:782:ARG:HG3	2:L:52:VAL:CA	1.09	1.39
1:C:825:LEU:HD13	1:C:1186:ARG:NH1	1.35	1.38
1:A:1263:HIS:NE2	1:E:900:GLY:HA3	1.35	1.38
1:E:782:ARG:CG	2:L:52:VAL:HA	1.27	1.38
1:D:182:MET:CE	1:D:217:PRO:CB	1.89	1.38
1:A:1227:GLU:CD	1:E:902:ASN:CB	1.93	1.37
1:A:782:ARG:HG3	2:J:52:VAL:C	1.49	1.37
1:E:505:GLN:NE2	1:E:1001:VAL:H	1.23	1.37
1:A:505:GLN:NE2	1:A:1001:VAL:H	1.23	1.37
1:B:900:GLY:O	1:F:1227:GLU:C	1.68	1.36
1:C:505:GLN:NE2	1:C:1001:VAL:H	1.23	1.36
1:F:782:ARG:C	2:I:57:VAL:HG23	1.50	1.36
1:B:782:ARG:C	2:G:57:VAL:HG23	1.50	1.36

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:ARG:HG3	2:K:52:VAL:C	1.49	1.36
1:A:825:LEU:HD13	1:A:1186:ARG:NH1	1.35	1.36
1:E:825:LEU:HD13	1:E:1186:ARG:NH1	1.35	1.35
1:A:782:ARG:HG3	2:J:52:VAL:CA	1.09	1.35
1:D:782:ARG:C	2:H:57:VAL:HG23	1.50	1.35
1:F:182:MET:CE	1:F:217:PRO:CB	1.89	1.34
1:E:782:ARG:HG3	2:L:52:VAL:C	1.49	1.34
1:B:1227:GLU:C	1:D:900:GLY:O	1.68	1.34
1:E:782:ARG:CG	2:L:52:VAL:CA	1.86	1.34
1:F:777:GLY:HA2	2:I:52:VAL:CG1	1.58	1.34
1:F:1104:MET:O	2:I:54:PHE:HZ	1.09	1.34
1:F:253:HIS:CG	1:F:254:PRO:HD2	1.62	1.33
1:B:253:HIS:CG	1:B:254:PRO:HD2	1.62	1.33
1:A:290:THR:CG2	1:A:292:PRO:HD2	1.58	1.33
1:D:253:HIS:CG	1:D:254:PRO:HD2	1.62	1.33
1:D:430:VAL:HG13	1:D:554:GLU:CB	1.58	1.33
1:B:1104:MET:O	2:G:54:PHE:HZ	1.09	1.33
1:C:290:THR:CG2	1:C:292:PRO:HD2	1.58	1.33
1:B:777:GLY:HA2	2:G:52:VAL:CG1	1.58	1.32
1:D:1227:GLU:C	1:F:900:GLY:O	1.68	1.32
1:F:430:VAL:HG13	1:F:554:GLU:CB	1.59	1.32
1:D:777:GLY:HA2	2:H:52:VAL:CG1	1.58	1.31
1:E:1104:MET:O	2:L:54:PHE:HZ	1.10	1.31
1:B:430:VAL:HG13	1:B:554:GLU:CB	1.59	1.31
1:E:290:THR:CG2	1:E:292:PRO:HD2	1.58	1.31
1:A:902:ASN:CB	1:C:1227:GLU:CD	1.93	1.30
1:B:780:ARG:NH1	2:G:50:CYS:SG	2.04	1.30
1:C:1438:ARG:CB	2:J:376:GLY:N	1.75	1.30
1:E:780:ARG:NH1	2:L:50:CYS:SG	2.04	1.30
1:B:825:LEU:HD13	1:B:1186:ARG:NH1	1.46	1.30
1:E:1391:MET:HE2	1:E:1458:VAL:CG2	1.61	1.30
1:C:253:HIS:ND1	1:C:254:PRO:CD	1.94	1.30
1:C:780:ARG:NH1	2:K:50:CYS:SG	2.04	1.30
1:D:780:ARG:NH1	2:H:50:CYS:SG	2.04	1.30
1:A:253:HIS:ND1	1:A:254:PRO:CD	1.94	1.29
1:A:1438:ARG:CB	2:L:376:GLY:N	1.75	1.29
1:B:782:ARG:CZ	2:G:51:GLY:HA2	1.08	1.29
1:D:1263:HIS:NE2	1:F:900:GLY:HA3	1.48	1.29
1:A:780:ARG:NH1	2:J:50:CYS:SG	2.04	1.29
1:C:253:HIS:CG	1:C:254:PRO:HD2	1.67	1.29
1:B:1263:HIS:NE2	1:D:900:GLY:HA3	1.48	1.29

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:825:LEU:CD1	1:F:1186:ARG:HH12	1.46	1.29
1:B:900:GLY:N	1:F:1263:HIS:HE1	1.30	1.29
1:B:1263:HIS:HE1	1:D:900:GLY:N	1.30	1.29
1:E:253:HIS:CG	1:E:254:PRO:HD2	1.67	1.29
1:A:253:HIS:CG	1:A:254:PRO:HD2	1.67	1.28
1:A:1391:MET:HE2	1:A:1458:VAL:CG2	1.61	1.28
1:A:1438:ARG:HG3	2:L:376:GLY:CA	1.52	1.28
1:C:1104:MET:O	2:K:54:PHE:HZ	1.10	1.28
1:D:825:LEU:HD13	1:D:1186:ARG:NH1	1.46	1.28
1:C:1391:MET:HE2	1:C:1458:VAL:CG2	1.61	1.28
1:D:825:LEU:CD1	1:D:1186:ARG:HH12	1.46	1.28
1:E:253:HIS:ND1	1:E:254:PRO:CD	1.94	1.28
1:A:900:GLY:CA	1:C:1263:HIS:NE2	1.96	1.28
1:D:1104:MET:O	2:H:54:PHE:HZ	1.09	1.28
1:D:1263:HIS:HE1	1:F:900:GLY:N	1.30	1.28
1:B:825:LEU:CD1	1:B:1186:ARG:HH12	1.46	1.27
1:F:780:ARG:NH1	2:I:50:CYS:SG	2.04	1.27
1:C:900:GLY:CA	1:E:1263:HIS:NE2	1.96	1.27
1:F:825:LEU:HD13	1:F:1186:ARG:NH1	1.46	1.27
1:A:1263:HIS:CE1	1:E:900:GLY:CA	2.17	1.27
1:C:430:VAL:HG13	1:C:554:GLU:CB	1.64	1.27
1:A:430:VAL:HG13	1:A:554:GLU:CB	1.64	1.27
1:F:782:ARG:HB3	2:I:56:GLN:NE2	1.50	1.26
1:A:900:GLY:CA	1:C:1263:HIS:CE1	2.17	1.26
1:A:1104:MET:O	2:J:54:PHE:HZ	1.10	1.26
1:A:1263:HIS:NE2	1:E:900:GLY:CA	1.96	1.26
1:E:430:VAL:HG13	1:E:554:GLU:CB	1.64	1.26
1:E:782:ARG:HB3	2:L:56:GLN:NE2	1.49	1.26
1:C:777:GLY:HA2	2:K:52:VAL:CG1	1.65	1.26
1:F:1449:ARG:HB2	1:F:1449:ARG:NH1	0.93	1.26
1:B:729:GLY:O	1:B:748:GLY:HA3	1.31	1.26
1:C:782:ARG:CG	2:K:52:VAL:CA	1.86	1.26
1:C:782:ARG:HB3	2:K:56:GLN:NE2	1.49	1.26
1:C:1438:ARG:HG3	2:J:376:GLY:CA	1.52	1.26
1:D:729:GLY:O	1:D:748:GLY:HA3	1.31	1.26
1:D:782:ARG:HB3	2:H:56:GLN:NE2	1.50	1.26
1:F:781:PHE:C	2:I:52:VAL:HB	1.38	1.26
1:C:900:GLY:CA	1:E:1263:HIS:CE1	2.17	1.26
1:D:1449:ARG:NH1	1:D:1449:ARG:HB2	0.93	1.25
1:B:182:MET:CE	1:B:217:PRO:CB	1.89	1.25
1:A:777:GLY:HA2	2:J:52:VAL:CG1	1.65	1.25

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:782:ARG:HB3	2:J:56:GLN:NE2	1.49	1.25
1:B:900:GLY:HA3	1:F:1263:HIS:NE2	1.48	1.25
1:F:783:LYS:CA	2:I:57:VAL:CG2	2.15	1.25
1:A:375:ASP:OD2	1:A:377:THR:HB	1.35	1.25
1:F:729:GLY:O	1:F:748:GLY:HA3	1.31	1.25
1:F:782:ARG:NH2	2:I:51:GLY:C	1.88	1.25
1:A:782:ARG:C	2:J:57:VAL:HG23	1.62	1.24
1:B:1228:LYS:N	1:D:900:GLY:O	1.71	1.24
1:E:777:GLY:HA2	2:L:52:VAL:CG1	1.65	1.24
1:E:1438:ARG:HG3	2:K:376:GLY:CA	1.52	1.24
1:B:783:LYS:CA	2:G:57:VAL:CG2	2.15	1.24
1:B:1449:ARG:NH1	1:B:1449:ARG:HB2	0.93	1.24
1:E:375:ASP:OD2	1:E:377:THR:HB	1.35	1.24
1:C:782:ARG:C	2:K:57:VAL:HG23	1.62	1.23
1:D:783:LYS:CA	2:H:57:VAL:CG2	2.15	1.23
1:F:452:GLN:HE21	1:F:764:THR:CG2	1.51	1.23
1:B:900:GLY:O	1:F:1228:LYS:N	1.71	1.23
1:E:782:ARG:C	2:L:57:VAL:HG23	1.62	1.23
1:B:452:GLN:HE21	1:B:764:THR:CG2	1.51	1.23
1:D:782:ARG:CZ	2:H:51:GLY:HA2	1.08	1.23
1:D:1228:LYS:N	1:F:900:GLY:O	1.70	1.23
1:B:782:ARG:HB3	2:G:56:GLN:NE2	1.50	1.22
1:A:875:MET:CE	1:A:1139:PHE:CE2	2.22	1.22
1:D:452:GLN:HE21	1:D:764:THR:CG2	1.51	1.22
1:E:875:MET:CE	1:E:1139:PHE:CE2	2.22	1.22
1:C:782:ARG:CG	2:K:52:VAL:HA	1.27	1.22
1:B:781:PHE:C	2:G:52:VAL:HB	1.38	1.21
1:F:783:LYS:HA	2:I:57:VAL:CG2	1.69	1.21
1:C:375:ASP:OD2	1:C:377:THR:HB	1.35	1.21
1:C:875:MET:CE	1:C:1139:PHE:CE2	2.22	1.21
1:D:1047:MET:HG2	1:D:1186:ARG:CZ	1.69	1.21
1:F:782:ARG:CZ	2:I:51:GLY:HA2	1.08	1.21
1:F:746:ILE:CG2	1:F:1182:ASP:H	1.54	1.20
2:H:259:VAL:HG21	2:H:264:TYR:HB2	1.21	1.20
1:B:746:ILE:CG2	1:B:1182:ASP:H	1.54	1.20
1:B:1047:MET:HG2	1:B:1186:ARG:CZ	1.69	1.20
1:E:782:ARG:CD	2:L:53:PRO:CD	2.20	1.20
1:F:1047:MET:HG2	1:F:1186:ARG:CZ	1.69	1.20
1:E:1438:ARG:CB	2:K:376:GLY:N	1.75	1.20
1:B:783:LYS:HA	2:G:57:VAL:CG2	1.69	1.20
1:C:782:ARG:CD	2:K:53:PRO:CD	2.20	1.20

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:152:VAL:HG13	2:G:175:VAL:HA	1.24	1.19
2:K:259:VAL:HG21	2:K:264:TYR:HB2	1.21	1.19
1:A:59:VAL:HG21	1:A:105:TYR:CD2	1.77	1.19
1:C:59:VAL:HG21	1:C:105:TYR:CD2	1.77	1.19
1:D:1047:MET:SD	1:D:1186:ARG:NH2	2.16	1.19
1:B:1047:MET:SD	1:B:1186:ARG:NH2	2.16	1.18
1:D:783:LYS:HA	2:H:57:VAL:CG2	1.69	1.18
1:A:672:GLN:HG3	1:A:693:MET:HE2	1.24	1.18
1:D:253:HIS:ND1	1:D:254:PRO:HD2	1.57	1.18
1:D:746:ILE:CG2	1:D:1182:ASP:H	1.54	1.18
1:D:782:ARG:NH2	2:H:51:GLY:C	1.88	1.18
1:A:782:ARG:CD	2:J:53:PRO:CD	2.20	1.18
1:D:781:PHE:C	2:H:52:VAL:HB	1.38	1.18
1:A:783:LYS:CA	2:J:57:VAL:HG22	1.64	1.17
1:C:900:GLY:N	1:E:1263:HIS:CE1	2.12	1.17
1:E:59:VAL:HG21	1:E:105:TYR:CD2	1.77	1.17
1:E:515:ARG:HD2	1:E:1367:TYR:CE1	1.80	1.17
2:K:244:LYS:HD2	2:K:404:GLU:HB3	1.26	1.17
1:F:253:HIS:ND1	1:F:254:PRO:HD2	1.57	1.17
1:E:672:GLN:HG3	1:E:693:MET:HE2	1.24	1.17
1:E:1111:ASN:OD1	1:E:1119:VAL:HG23	1.44	1.17
1:B:253:HIS:ND1	1:B:254:PRO:HD2	1.57	1.17
1:C:781:PHE:C	2:K:52:VAL:HB	1.51	1.17
1:D:783:LYS:CA	2:H:57:VAL:HG22	1.60	1.17
1:F:783:LYS:N	2:I:57:VAL:HG23	1.59	1.17
1:A:900:GLY:N	1:C:1263:HIS:CE1	2.13	1.17
1:B:1401:LEU:HD12	1:B:1401:LEU:O	1.45	1.17
1:A:1263:HIS:CE1	1:E:900:GLY:N	2.13	1.16
1:B:1104:MET:O	2:G:54:PHE:CZ	1.97	1.16
1:C:515:ARG:HD2	1:C:1367:TYR:CE1	1.80	1.16
1:C:746:ILE:CG2	1:C:1182:ASP:H	1.58	1.16
1:F:1047:MET:SD	1:F:1186:ARG:NH2	2.16	1.16
1:A:1104:MET:O	2:J:54:PHE:CZ	1.98	1.16
1:B:782:ARG:NH2	2:G:51:GLY:C	1.88	1.16
1:D:1111:ASN:OD1	1:D:1119:VAL:HG23	1.45	1.16
1:F:1401:LEU:HD12	1:F:1401:LEU:O	1.45	1.16
2:J:259:VAL:HG21	2:J:264:TYR:HB2	1.21	1.16
2:J:319:LEU:HD11	2:J:369:LEU:HD21	1.26	1.16
1:D:783:LYS:N	2:H:57:VAL:HG23	1.59	1.16
1:E:825:LEU:CD1	1:E:1186:ARG:NH1	1.98	1.16
1:F:1104:MET:O	2:I:54:PHE:CZ	1.97	1.16

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:244:LYS:HD2	2:J:404:GLU:HB3	1.26	1.16
1:A:746:ILE:CG2	1:A:1182:ASP:H	1.58	1.16
1:C:783:LYS:CA	2:K:57:VAL:HG22	1.64	1.16
1:E:1104:MET:O	2:L:54:PHE:CZ	1.98	1.16
1:A:515:ARG:HD2	1:A:1367:TYR:CE1	1.80	1.16
1:B:1111:ASN:OD1	1:B:1119:VAL:HG23	1.45	1.16
1:E:746:ILE:CG2	1:E:1182:ASP:H	1.58	1.16
2:I:319:LEU:HD11	2:I:369:LEU:HD21	1.26	1.16
1:C:479:MET:HG3	1:C:1104:MET:HE1	1.28	1.15
1:D:1401:LEU:O	1:D:1401:LEU:HD12	1.45	1.15
1:E:782:ARG:CG	2:L:53:PRO:CD	1.88	1.15
1:E:783:LYS:CA	2:L:57:VAL:HG22	1.64	1.15
1:A:782:ARG:CG	2:J:52:VAL:CA	1.86	1.15
1:D:1104:MET:O	2:H:54:PHE:CZ	1.97	1.15
1:E:838:VAL:HG13	1:E:839:PRO:HD2	1.23	1.15
1:E:1212:ASP:O	1:E:1216:VAL:HG23	1.47	1.15
2:H:319:LEU:HD11	2:H:369:LEU:HD21	1.26	1.15
2:K:152:VAL:HG13	2:K:175:VAL:HA	1.24	1.15
1:B:783:LYS:CA	2:G:57:VAL:HG22	1.60	1.15
1:C:182:MET:CE	1:C:217:PRO:CB	2.13	1.15
1:C:515:ARG:CD	1:C:1367:TYR:CE1	2.30	1.15
1:C:778:PHE:CE2	1:C:1039:LYS:HD2	1.80	1.15
1:E:778:PHE:CE2	1:E:1039:LYS:HD2	1.80	1.15
2:G:244:LYS:HD2	2:G:404:GLU:HB3	1.26	1.15
2:K:319:LEU:HD11	2:K:369:LEU:HD21	1.26	1.15
1:A:1111:ASN:OD1	1:A:1119:VAL:HG23	1.44	1.15
1:C:1104:MET:O	2:K:54:PHE:CZ	1.98	1.15
2:H:244:LYS:HD2	2:H:404:GLU:HB3	1.26	1.15
2:I:186:LEU:HD23	2:I:195:LEU:HD21	1.17	1.15
2:J:152:VAL:HG13	2:J:175:VAL:HA	1.24	1.15
1:D:1227:GLU:CD	1:F:876:ASN:HB3	1.71	1.14
1:E:1438:ARG:CD	2:K:376:GLY:C	2.20	1.14
1:F:777:GLY:HA2	2:I:52:VAL:HG13	1.22	1.14
2:I:259:VAL:HG21	2:I:264:TYR:HB2	1.21	1.14
1:A:778:PHE:CE2	1:A:1039:LYS:HD2	1.80	1.14
1:A:1212:ASP:O	1:A:1216:VAL:HG23	1.47	1.14
1:B:290:THR:HG23	1:B:292:PRO:HD2	1.27	1.14
1:B:876:ASN:HB3	1:F:1227:GLU:CD	1.71	1.14
1:D:782:ARG:CD	2:H:53:PRO:CD	2.25	1.14
1:D:999:LYS:HG3	1:D:1022:LEU:HD23	1.19	1.14
1:F:782:ARG:CD	2:I:53:PRO:CD	2.25	1.14

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:371:VAL:HG23	2:H:383:ILE:HG23	1.28	1.14
2:J:371:VAL:HG23	2:J:383:ILE:HG23	1.28	1.14
1:C:672:GLN:HG3	1:C:693:MET:HE2	1.24	1.14
2:L:53:PRO:HG2	2:L:56:GLN:HG2	1.18	1.14
1:A:290:THR:HG22	1:A:292:PRO:HD2	1.29	1.14
1:C:522:LEU:HD21	1:C:705:LEU:HD21	1.22	1.14
1:E:515:ARG:CD	1:E:1367:TYR:CE1	2.30	1.14
1:E:783:LYS:CA	2:L:57:VAL:CG2	2.26	1.14
2:I:53:PRO:HG2	2:I:56:GLN:HG2	1.18	1.14
1:B:452:GLN:HE21	1:B:764:THR:HG21	0.98	1.14
1:B:783:LYS:N	2:G:57:VAL:HG23	1.59	1.14
1:B:1349:ARG:HH11	1:B:1349:ARG:HG2	0.97	1.14
1:C:139:VAL:HG12	1:C:140:SER:H	1.01	1.14
1:C:783:LYS:CA	2:K:57:VAL:CG2	2.26	1.14
1:F:290:THR:HG23	1:F:292:PRO:HD2	1.27	1.14
2:G:319:LEU:HD11	2:G:369:LEU:HD21	1.26	1.14
1:A:430:VAL:HG13	1:A:554:GLU:HB3	1.17	1.13
1:A:1221:PRO:HB2	1:A:1229:MET:HE2	1.29	1.13
1:B:999:LYS:CG	1:B:1022:LEU:HD23	1.78	1.13
1:B:1227:GLU:CD	1:D:876:ASN:HB3	1.72	1.13
1:C:381:GLU:OE1	1:C:402:ARG:NH1	1.81	1.13
1:E:781:PHE:C	2:L:52:VAL:HB	1.51	1.13
1:A:479:MET:HG3	1:A:1104:MET:HE1	1.28	1.13
1:A:825:LEU:CD1	1:A:1186:ARG:NH1	1.98	1.13
1:A:1438:ARG:HB2	2:L:376:GLY:N	1.47	1.13
1:C:715:VAL:HG12	1:C:715:VAL:O	1.44	1.13
1:A:515:ARG:CD	1:A:1367:TYR:CE1	2.30	1.13
1:B:782:ARG:CD	2:G:53:PRO:CD	2.25	1.13
1:B:900:GLY:CA	1:F:1263:HIS:HE1	1.33	1.13
1:C:236:THR:HG21	1:C:328:ASP:H	1.00	1.13
1:C:1111:ASN:OD1	1:C:1119:VAL:HG23	1.44	1.13
1:C:1212:ASP:O	1:C:1216:VAL:HG23	1.47	1.13
2:G:148:LEU:HD12	2:G:149:SER:H	1.14	1.13
2:K:429:THR:HG21	2:K:431:MET:HE2	1.29	1.13
1:A:182:MET:CE	1:A:217:PRO:CB	2.13	1.13
2:G:259:VAL:HG21	2:G:264:TYR:HB2	1.21	1.13
2:I:152:VAL:HG13	2:I:175:VAL:HA	1.24	1.13
2:L:152:VAL:HG13	2:L:175:VAL:HA	1.24	1.13
1:A:526:LEU:HD12	1:A:526:LEU:N	1.63	1.12
1:A:783:LYS:HA	2:J:57:VAL:CG2	1.79	1.13
1:A:1230:GLN:H	1:E:877:ARG:HG2	1.13	1.12

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:290:THR:HG23	1:D:292:PRO:HD2	1.27	1.12
1:D:777:GLY:CA	2:H:52:VAL:CG1	2.28	1.12
1:E:783:LYS:N	2:L:57:VAL:HG23	1.64	1.12
1:F:777:GLY:CA	2:I:52:VAL:CG1	2.27	1.12
1:F:1111:ASN:OD1	1:F:1119:VAL:HG23	1.45	1.13
2:J:186:LEU:HD23	2:J:195:LEU:HD21	1.17	1.12
2:L:423:LEU:HD21	2:L:443:ILE:HD13	1.28	1.12
1:A:139:VAL:HG12	1:A:140:SER:H	1.01	1.12
1:B:1401:LEU:HD12	1:B:1401:LEU:C	1.74	1.12
1:C:783:LYS:HA	2:K:57:VAL:CG2	1.79	1.12
1:D:999:LYS:CG	1:D:1022:LEU:HD23	1.78	1.12
1:E:381:GLU:OE1	1:E:402:ARG:NH1	1.81	1.12
1:E:715:VAL:O	1:E:715:VAL:HG12	1.44	1.12
2:L:259:VAL:HG21	2:L:264:TYR:HB2	1.21	1.12
1:F:710:LYS:HG2	1:F:939:GLY:HA3	1.25	1.12
1:F:999:LYS:CG	1:F:1022:LEU:HD23	1.78	1.12
2:H:186:LEU:HD23	2:H:195:LEU:HD21	1.17	1.12
2:L:244:LYS:HD2	2:L:404:GLU:HB3	1.26	1.12
1:B:430:VAL:HG13	1:B:554:GLU:HB3	1.31	1.12
1:C:783:LYS:N	2:K:57:VAL:HG23	1.64	1.12
1:D:30:HIS:CD2	1:D:31:ARG:HG3	1.85	1.12
1:F:783:LYS:CA	2:I:57:VAL:HG22	1.60	1.12
2:H:406:LEU:HD23	2:H:407:PRO:HD3	1.29	1.12
2:I:244:LYS:HD2	2:I:404:GLU:HB3	1.26	1.12
1:D:1263:HIS:HE1	1:F:900:GLY:CA	1.33	1.12
1:E:479:MET:HG3	1:E:1104:MET:HE1	1.28	1.12
1:F:139:VAL:HG12	1:F:140:SER:N	1.60	1.12
1:F:1047:MET:HE2	1:F:1186:ARG:HH22	1.11	1.12
2:H:429:THR:HG21	2:H:431:MET:HE2	1.30	1.12
2:J:406:LEU:HD23	2:J:407:PRO:HD3	1.29	1.12
1:A:783:LYS:CA	2:J:57:VAL:CG2	2.26	1.11
1:D:782:ARG:O	2:H:57:VAL:CG2	1.98	1.11
2:H:152:VAL:HG13	2:H:175:VAL:HA	1.24	1.11
2:K:53:PRO:HG2	2:K:56:GLN:HG2	1.18	1.11
2:L:148:LEU:HD12	2:L:149:SER:H	1.14	1.11
1:B:782:ARG:O	2:G:57:VAL:CG2	1.98	1.11
1:F:30:HIS:CD2	1:F:31:ARG:HG3	1.85	1.11
1:A:253:HIS:CE1	1:A:254:PRO:HD2	1.85	1.11
1:C:59:VAL:CG2	1:C:105:TYR:CD2	2.34	1.11
2:K:148:LEU:HD12	2:K:149:SER:H	1.14	1.11
1:C:838:VAL:HG13	1:C:839:PRO:HD2	1.23	1.11

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1438:ARG:HB2	2:J:376:GLY:N	1.47	1.11
1:E:253:HIS:CE1	1:E:254:PRO:HD2	1.85	1.11
2:L:186:LEU:HD23	2:L:195:LEU:HD21	1.17	1.11
1:B:515:ARG:HD2	1:B:1367:TYR:CE1	1.86	1.11
1:B:782:ARG:CD	2:G:53:PRO:HD3	1.81	1.11
1:B:1229:MET:HA	1:D:877:ARG:HG3	1.12	1.11
1:D:782:ARG:CB	2:H:56:GLN:HE21	1.63	1.11
1:E:139:VAL:HG12	1:E:140:SER:H	1.01	1.11
1:F:782:ARG:CD	2:I:53:PRO:HD3	1.81	1.11
1:F:999:LYS:HG3	1:F:1022:LEU:HD23	1.19	1.11
2:G:418:THR:HB	2:G:424:LEU:HD11	1.32	1.11
2:L:319:LEU:HD11	2:L:369:LEU:HD21	1.26	1.11
1:A:381:GLU:OE1	1:A:402:ARG:NH1	1.81	1.10
1:A:783:LYS:N	2:J:57:VAL:HG23	1.64	1.10
1:C:253:HIS:CE1	1:C:254:PRO:HD2	1.85	1.10
1:E:783:LYS:HA	2:L:57:VAL:CG2	1.79	1.10
1:F:782:ARG:CB	2:I:56:GLN:HE21	1.63	1.10
2:J:423:LEU:HD21	2:J:443:ILE:HD13	1.28	1.10
1:A:387:PRO:HD3	1:A:1344:GLU:OE2	1.51	1.10
1:B:30:HIS:CD2	1:B:31:ARG:HG3	1.85	1.10
1:C:387:PRO:HD3	1:C:1344:GLU:OE2	1.51	1.10
1:F:782:ARG:O	2:I:57:VAL:CG2	1.98	1.10
2:G:406:LEU:HD23	2:G:407:PRO:HD3	1.29	1.10
2:J:53:PRO:HG2	2:J:56:GLN:HG2	1.18	1.10
1:B:782:ARG:CB	2:G:56:GLN:HE21	1.63	1.10
1:B:999:LYS:HG3	1:B:1022:LEU:HD23	1.19	1.10
1:C:877:ARG:HG2	1:E:1230:GLN:H	1.13	1.10
1:C:1438:ARG:CD	2:J:376:GLY:C	2.20	1.10
1:D:430:VAL:CG1	1:D:554:GLU:HB2	1.81	1.10
1:E:236:THR:HG21	1:E:328:ASP:H	1.00	1.10
1:E:746:ILE:HG21	1:E:1182:ASP:H	1.12	1.10
1:E:1376:LEU:HD23	1:E:1376:LEU:N	1.62	1.10
2:I:367:ILE:HG23	2:I:390:VAL:HG23	1.34	1.10
2:I:371:VAL:HG23	2:I:383:ILE:HG23	1.27	1.10
1:A:1376:LEU:HD23	1:A:1376:LEU:N	1.62	1.10
1:B:710:LYS:HG2	1:B:939:GLY:HA3	1.25	1.10
1:D:710:LYS:HG2	1:D:939:GLY:HA3	1.25	1.10
1:F:430:VAL:HG13	1:F:554:GLU:HB3	1.31	1.10
1:F:515:ARG:HD2	1:F:1367:TYR:CE1	1.86	1.10
1:F:1349:ARG:HH11	1:F:1349:ARG:HG2	0.97	1.10
2:G:423:LEU:HD21	2:G:443:ILE:HD13	1.28	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:371:VAL:HG23	2:K:383:ILE:HG23	1.27	1.10
2:L:418:THR:HB	2:L:424:LEU:HD11	1.32	1.10
1:A:781:PHE:C	2:J:52:VAL:HB	1.51	1.10
1:B:728:ILE:HD12	1:B:1047:MET:CE	1.82	1.10
1:C:960:THR:HG22	1:C:963:VAL:HG23	1.32	1.10
1:E:522:LEU:HD21	1:E:705:LEU:HD23	1.33	1.10
1:E:782:ARG:HB3	2:L:56:GLN:HE21	0.96	1.10
1:F:728:ILE:HD12	1:F:1047:MET:CE	1.82	1.10
2:H:148:LEU:HD12	2:H:149:SER:H	1.14	1.10
1:A:236:THR:HG21	1:A:328:ASP:H	1.00	1.09
1:C:1391:MET:CE	1:C:1458:VAL:HG22	1.82	1.09
2:G:186:LEU:HD23	2:G:195:LEU:HD21	1.17	1.09
2:H:367:ILE:HG23	2:H:390:VAL:HG23	1.34	1.09
2:I:418:THR:HB	2:I:424:LEU:HD11	1.32	1.09
1:A:715:VAL:O	1:A:715:VAL:HG12	1.44	1.09
1:C:1376:LEU:N	1:C:1376:LEU:HD23	1.62	1.09
1:D:782:ARG:CD	2:H:53:PRO:HD3	1.81	1.09
1:E:59:VAL:CG2	1:E:105:TYR:CD2	2.34	1.09
1:E:777:GLY:HA2	2:L:52:VAL:HG13	1.33	1.09
2:G:429:THR:HG21	2:G:431:MET:HE2	1.29	1.09
2:I:406:LEU:HD23	2:I:407:PRO:HD3	1.29	1.09
1:A:59:VAL:CG2	1:A:105:TYR:CD2	2.34	1.09
1:B:777:GLY:CA	2:G:52:VAL:CG1	2.27	1.09
1:D:1349:ARG:HH11	1:D:1349:ARG:HG2	0.97	1.09
1:F:430:VAL:CG1	1:F:554:GLU:HB2	1.82	1.09
2:H:423:LEU:HD21	2:H:443:ILE:HD13	1.28	1.09
2:I:148:LEU:HD12	2:I:149:SER:H	1.14	1.09
1:F:236:THR:HG21	1:F:328:ASP:H	1.17	1.09
2:G:371:VAL:HG23	2:G:383:ILE:HG23	1.28	1.09
2:L:371:VAL:HG23	2:L:383:ILE:HG23	1.28	1.09
1:A:522:LEU:HD21	1:A:705:LEU:HD21	1.22	1.09
1:A:838:VAL:HG13	1:A:839:PRO:HD2	1.23	1.09
1:B:139:VAL:HG12	1:B:140:SER:N	1.60	1.09
1:C:430:VAL:HG13	1:C:554:GLU:HB3	1.17	1.09
1:C:526:LEU:HD12	1:C:526:LEU:N	1.63	1.09
1:D:452:GLN:HE21	1:D:764:THR:HG21	0.98	1.09
1:D:728:ILE:HD12	1:D:1047:MET:CE	1.82	1.09
1:F:238:LYS:O	1:F:242:ASN:ND2	1.86	1.09
2:G:53:PRO:HG2	2:G:56:GLN:HG2	1.18	1.09
2:G:225:SER:HB3	2:G:227:PRO:HD2	1.35	1.09
2:I:429:THR:HG21	2:I:431:MET:HE2	1.29	1.09

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:429:THR:HG21	2:J:431:MET:HE2	1.29	1.09
1:A:777:GLY:HA2	2:J:52:VAL:HG13	1.33	1.08
1:B:238:LYS:O	1:B:242:ASN:ND2	1.86	1.08
1:B:430:VAL:CG1	1:B:554:GLU:HB2	1.82	1.08
1:C:452:GLN:HE21	1:C:764:THR:HG23	1.13	1.08
1:E:387:PRO:HD3	1:E:1344:GLU:OE2	1.51	1.08
1:E:1391:MET:CE	1:E:1458:VAL:HG22	1.83	1.08
1:B:746:ILE:HG23	1:B:1182:ASP:HB3	1.32	1.08
1:C:522:LEU:CD2	1:C:705:LEU:HD21	1.83	1.08
1:D:1229:MET:HA	1:F:877:ARG:HG3	1.12	1.08
1:F:746:ILE:HG21	1:F:1182:ASP:N	1.69	1.08
2:I:225:SER:HB3	2:I:227:PRO:HD2	1.35	1.08
1:A:1391:MET:CE	1:A:1458:VAL:HG22	1.83	1.08
1:B:1047:MET:HE2	1:B:1186:ARG:HH22	1.11	1.08
1:C:345:MET:HG3	1:C:346:ASP:H	1.18	1.08
1:C:452:GLN:HE21	1:C:764:THR:CG2	1.66	1.08
1:D:299:VAL:HG12	1:D:299:VAL:O	1.53	1.08
1:D:430:VAL:HG13	1:D:554:GLU:HB3	1.31	1.08
1:D:515:ARG:HD2	1:D:1367:TYR:CE1	1.86	1.08
1:E:522:LEU:CD2	1:E:705:LEU:HD21	1.84	1.08
1:E:1438:ARG:HB2	2:K:376:GLY:N	1.47	1.08
2:L:367:ILE:HG23	2:L:390:VAL:HG23	1.34	1.08
1:C:1221:PRO:HB2	1:C:1229:MET:HE2	1.28	1.08
1:D:139:VAL:HG12	1:D:140:SER:N	1.60	1.08
1:D:238:LYS:O	1:D:242:ASN:ND2	1.86	1.08
1:D:777:GLY:HA2	2:H:52:VAL:HG13	1.22	1.08
1:D:1047:MET:HE2	1:D:1186:ARG:HH22	1.11	1.08
1:E:452:GLN:HE21	1:E:764:THR:HG23	1.13	1.08
1:F:452:GLN:HE21	1:F:764:THR:HG21	0.98	1.08
2:J:148:LEU:HD12	2:J:149:SER:H	1.14	1.08
2:J:367:ILE:HG23	2:J:390:VAL:HG23	1.34	1.08
2:L:225:SER:HB3	2:L:227:PRO:HD2	1.35	1.08
1:B:430:VAL:HG13	1:B:554:GLU:HB2	1.36	1.08
1:C:290:THR:HG22	1:C:292:PRO:HD2	1.29	1.08
1:D:746:ILE:HG23	1:D:1182:ASP:HB3	1.32	1.08
2:K:186:LEU:HD23	2:K:195:LEU:HD21	1.17	1.08
2:K:225:SER:HB3	2:K:227:PRO:HD2	1.35	1.08
1:A:960:THR:HG22	1:A:963:VAL:HG23	1.32	1.07
1:B:1263:HIS:HE1	1:D:900:GLY:CA	1.33	1.07
1:C:777:GLY:HA2	2:K:52:VAL:HG13	1.33	1.07
1:C:877:ARG:HG3	1:E:1229:MET:HA	1.33	1.07

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:974:ILE:HD11	1:C:983:LEU:HD12	1.33	1.07
1:E:452:GLN:HE21	1:E:764:THR:CG2	1.66	1.07
1:E:526:LEU:HD12	1:E:526:LEU:N	1.63	1.07
2:I:242:VAL:HG12	2:I:403:PRO:HD3	1.36	1.07
1:B:236:THR:HG21	1:B:328:ASP:H	1.17	1.07
1:C:113:ASN:C	1:C:113:ASN:HD22	1.59	1.07
1:C:782:ARG:CG	2:K:52:VAL:C	2.17	1.07
1:D:430:VAL:CG1	1:D:554:GLU:CB	2.32	1.07
1:D:1076:GLY:HA3	1:D:1145:GLU:HG2	1.36	1.07
1:E:1221:PRO:HB2	1:E:1229:MET:HE2	1.29	1.07
1:F:405:GLU:OE1	1:F:405:GLU:N	1.86	1.07
1:A:974:ILE:HD11	1:A:983:LEU:HD12	1.33	1.07
1:B:405:GLU:OE1	1:B:405:GLU:N	1.86	1.07
1:B:877:ARG:HG3	1:F:1229:MET:HA	1.12	1.07
1:C:235:ASN:HD22	1:C:236:THR:N	1.52	1.07
1:C:782:ARG:CG	2:K:53:PRO:CD	1.88	1.07
1:C:782:ARG:CB	2:K:56:GLN:HE21	1.68	1.07
1:C:825:LEU:CD1	1:C:1186:ARG:NH1	1.98	1.07
1:D:405:GLU:OE1	1:D:405:GLU:N	1.86	1.07
1:E:782:ARG:CB	2:L:56:GLN:HE21	1.68	1.07
2:K:367:ILE:HG23	2:K:390:VAL:HG23	1.34	1.07
2:K:418:THR:HB	2:K:424:LEU:HD11	1.32	1.07
1:A:877:ARG:HG2	1:C:1230:GLN:H	1.13	1.07
1:B:1115:VAL:O	1:B:1115:VAL:HG12	1.49	1.07
1:E:430:VAL:HG13	1:E:554:GLU:HB3	1.17	1.07
1:F:430:VAL:CG1	1:F:554:GLU:CB	2.32	1.07
2:I:167:ARG:HG2	2:I:210:ALA:HB1	1.07	1.07
2:L:429:THR:HG21	2:L:431:MET:HE2	1.30	1.07
1:A:522:LEU:HD21	1:A:705:LEU:HD23	1.33	1.07
1:A:900:GLY:HA3	1:C:1263:HIS:CE1	1.84	1.07
1:A:1210:THR:HG22	1:A:1211:LEU:H	0.91	1.07
1:B:139:VAL:HG11	1:B:143:GLN:HB3	1.36	1.07
1:C:746:ILE:HG21	1:C:1182:ASP:H	1.12	1.07
1:E:1438:ARG:HD2	2:K:376:GLY:C	1.57	1.07
2:K:406:LEU:HD23	2:K:407:PRO:HD3	1.29	1.07
1:A:113:ASN:C	1:A:113:ASN:HD22	1.59	1.06
1:A:780:ARG:HD3	2:J:51:GLY:O	1.55	1.06
1:B:746:ILE:HG21	1:B:1182:ASP:N	1.69	1.06
1:F:746:ILE:HG23	1:F:1182:ASP:HB3	1.32	1.06
2:G:367:ILE:HG23	2:G:390:VAL:HG23	1.34	1.06
2:K:423:LEU:HD21	2:K:443:ILE:HD13	1.28	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:345:MET:HG3	1:A:346:ASP:H	1.18	1.06
1:A:452:GLN:HE21	1:A:764:THR:HG23	1.13	1.06
1:B:777:GLY:HA2	2:G:52:VAL:HG13	1.22	1.06
1:B:782:ARG:CG	2:G:53:PRO:CD	1.77	1.06
1:C:782:ARG:CD	2:K:53:PRO:HD3	1.85	1.06
1:D:746:ILE:HG21	1:D:1182:ASP:N	1.69	1.06
1:D:782:ARG:HH21	2:H:51:GLY:C	1.57	1.06
1:D:1115:VAL:HG12	1:D:1115:VAL:O	1.49	1.06
1:E:290:THR:HG22	1:E:292:PRO:HD2	1.29	1.06
1:F:299:VAL:HG12	1:F:299:VAL:O	1.53	1.06
1:F:1115:VAL:O	1:F:1115:VAL:HG12	1.49	1.06
2:H:53:PRO:HG2	2:H:56:GLN:HG2	1.18	1.06
2:I:423:LEU:HD21	2:I:443:ILE:HD13	1.28	1.06
2:J:418:THR:HB	2:J:424:LEU:HD11	1.32	1.06
2:L:242:VAL:HG12	2:L:403:PRO:HD3	1.37	1.06
2:L:406:LEU:HD23	2:L:407:PRO:HD3	1.29	1.06
1:A:235:ASN:HD22	1:A:236:THR:N	1.52	1.06
1:A:780:ARG:NH2	2:J:50:CYS:SG	2.28	1.06
1:A:782:ARG:CG	2:J:52:VAL:C	2.17	1.06
1:A:782:ARG:CB	2:J:56:GLN:HE21	1.68	1.06
1:A:1115:VAL:HG12	1:A:1115:VAL:O	1.55	1.06
1:B:417:ASP:O	1:B:419:TRP:N	1.89	1.06
1:D:113:ASN:ND2	1:D:115:ASP:H	1.54	1.06
2:H:225:SER:HB3	2:H:227:PRO:HD2	1.35	1.06
2:J:225:SER:HB3	2:J:227:PRO:HD2	1.35	1.06
2:L:71:LEU:HD12	2:L:80:ALA:HB2	1.38	1.06
2:L:366:ARG:HG2	2:L:391:GLN:HA	1.38	1.06
1:A:452:GLN:HE21	1:A:764:THR:CG2	1.66	1.06
1:A:522:LEU:CD2	1:A:705:LEU:HD21	1.84	1.06
1:B:781:PHE:C	2:G:52:VAL:CB	2.29	1.06
1:D:783:LYS:CE	2:H:57:VAL:HG12	1.66	1.06
1:F:782:ARG:C	2:I:57:VAL:CG2	2.29	1.06
2:G:366:ARG:HG2	2:G:391:GLN:HA	1.38	1.06
2:I:366:ARG:HG2	2:I:391:GLN:HA	1.38	1.06
2:K:71:LEU:HD12	2:K:80:ALA:HB2	1.38	1.06
1:B:113:ASN:ND2	1:B:115:ASP:H	1.54	1.06
1:B:227:MET:HE3	1:B:282:GLU:HA	1.37	1.06
1:C:780:ARG:HD3	2:K:51:GLY:O	1.55	1.06
1:D:139:VAL:HG11	1:D:143:GLN:HB3	1.36	1.06
1:D:515:ARG:CD	1:D:1367:TYR:CE1	2.39	1.06
1:D:1317:THR:HG22	1:D:1318:ASN:N	1.71	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1401:LEU:HD12	1:D:1401:LEU:C	1.74	1.06
1:E:522:LEU:HD21	1:E:705:LEU:HD21	1.22	1.06
1:B:782:ARG:C	2:G:57:VAL:CG2	2.29	1.05
1:D:417:ASP:O	1:D:419:TRP:N	1.89	1.05
1:E:780:ARG:NH2	2:L:50:CYS:SG	2.28	1.05
1:F:515:ARG:CD	1:F:1367:TYR:CE1	2.39	1.05
2:J:242:VAL:HG12	2:J:403:PRO:HD3	1.37	1.05
1:A:782:ARG:HB3	2:J:56:GLN:HE21	0.96	1.05
1:B:430:VAL:CG1	1:B:554:GLU:CB	2.32	1.05
1:B:515:ARG:CD	1:B:1367:TYR:CE1	2.39	1.05
1:D:236:THR:HG21	1:D:328:ASP:H	1.17	1.05
1:D:782:ARG:CB	2:H:53:PRO:HD2	1.86	1.05
1:E:235:ASN:HD22	1:E:236:THR:N	1.52	1.05
1:E:345:MET:HG3	1:E:346:ASP:H	1.18	1.05
2:H:418:THR:HB	2:H:424:LEU:HD11	1.32	1.05
2:L:167:ARG:HG2	2:L:210:ALA:HB1	1.08	1.05
1:A:1229:MET:HA	1:E:877:ARG:HG3	1.34	1.05
1:C:780:ARG:NH2	2:K:50:CYS:SG	2.28	1.05
1:D:1047:MET:CE	1:D:1186:ARG:HH22	1.70	1.05
1:E:236:THR:CG2	1:E:328:ASP:H	1.69	1.05
1:E:780:ARG:HD3	2:L:51:GLY:O	1.55	1.05
2:G:71:LEU:HD12	2:G:80:ALA:HB2	1.38	1.05
2:I:71:LEU:HD12	2:I:80:ALA:HB2	1.38	1.05
2:J:167:ARG:HG2	2:J:210:ALA:HB1	1.08	1.05
1:A:182:MET:HE3	1:A:217:PRO:HB3	1.38	1.05
1:A:877:ARG:HG3	1:C:1229:MET:HA	1.33	1.05
1:A:1438:ARG:CD	2:L:376:GLY:C	2.20	1.05
1:B:1221:PRO:HD2	1:B:1229:MET:HE1	1.39	1.05
1:C:295:LYS:NZ	1:C:299:VAL:O	1.90	1.05
1:D:505:GLN:NE2	1:D:1000:LEU:HB3	1.72	1.05
1:D:825:LEU:HD13	1:D:1186:ARG:HH12	1.04	1.05
1:E:1115:VAL:HG12	1:E:1115:VAL:O	1.55	1.05
1:F:782:ARG:CG	2:I:53:PRO:CD	1.77	1.05
2:K:366:ARG:HG2	2:K:391:GLN:HA	1.38	1.05
1:B:505:GLN:NE2	1:B:1000:LEU:HB3	1.72	1.05
1:D:182:MET:HE1	1:D:217:PRO:C	1.82	1.05
1:D:227:MET:HE3	1:D:282:GLU:HA	1.37	1.05
1:F:182:MET:HE3	1:F:217:PRO:HB3	1.05	1.05
1:F:1076:GLY:HA3	1:F:1145:GLU:HG2	1.36	1.05
1:F:1221:PRO:HD2	1:F:1229:MET:HE1	1.39	1.05
2:G:242:VAL:HG12	2:G:403:PRO:HD3	1.37	1.05

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:746:ILE:HG21	1:A:1182:ASP:H	1.12	1.04
1:A:1184:ASN:HB3	1:A:1185:PRO:HD3	1.39	1.04
1:B:182:MET:HE3	1:B:217:PRO:HB3	1.05	1.04
1:B:782:ARG:CB	2:G:53:PRO:HD2	1.86	1.04
1:C:522:LEU:HD21	1:C:705:LEU:HD23	1.33	1.04
1:C:782:ARG:HB3	2:K:56:GLN:HE21	0.96	1.04
1:E:777:GLY:CA	2:L:52:VAL:CG1	2.36	1.04
1:E:960:THR:HG22	1:E:963:VAL:HG23	1.32	1.04
1:F:113:ASN:ND2	1:F:115:ASP:H	1.54	1.04
1:F:236:THR:CG2	1:F:328:ASP:H	1.70	1.04
1:F:417:ASP:O	1:F:419:TRP:N	1.89	1.04
1:F:781:PHE:C	2:I:52:VAL:CB	2.29	1.04
1:F:782:ARG:CB	2:I:53:PRO:HD2	1.86	1.04
1:F:1131:THR:HG23	1:F:1133:GLU:OE1	1.57	1.04
2:J:449:LEU:HD21	2:J:451:VAL:HG13	1.39	1.04
1:A:782:ARG:CD	2:J:53:PRO:HD3	1.85	1.04
1:D:782:ARG:C	2:H:57:VAL:CG2	2.29	1.04
1:D:999:LYS:HG3	1:D:1022:LEU:CD2	1.87	1.04
1:E:826:ARG:HH11	1:E:826:ARG:HG2	1.18	1.04
1:E:974:ILE:HD11	1:E:983:LEU:HD12	1.33	1.04
1:F:1401:LEU:HD12	1:F:1401:LEU:C	1.74	1.04
2:I:449:LEU:HD21	2:I:451:VAL:HG13	1.39	1.04
1:C:236:THR:CG2	1:C:328:ASP:H	1.69	1.04
1:C:900:GLY:HA3	1:E:1263:HIS:CE1	1.84	1.04
1:F:139:VAL:HG11	1:F:143:GLN:HB3	1.36	1.04
1:F:1062:ARG:O	1:F:1062:ARG:HG3	1.58	1.04
1:F:1317:THR:HG22	1:F:1318:ASN:N	1.71	1.04
2:H:71:LEU:HD12	2:H:80:ALA:HB2	1.38	1.04
2:K:449:LEU:HD21	2:K:451:VAL:HG13	1.39	1.04
1:A:236:THR:CG2	1:A:328:ASP:H	1.69	1.04
1:A:782:ARG:HG2	2:J:53:PRO:N	1.73	1.04
1:D:182:MET:HE3	1:D:217:PRO:HB3	1.05	1.04
1:D:781:PHE:C	2:H:52:VAL:CB	2.29	1.04
1:D:912:SER:HB2	1:D:968:PRO:HD2	1.39	1.04
1:E:238:LYS:O	1:E:242:ASN:ND2	1.91	1.04
1:E:1210:THR:HG22	1:E:1211:LEU:H	0.91	1.04
1:F:464:ILE:HD11	1:F:779:TYR:CE2	1.93	1.04
1:A:777:GLY:CA	2:J:52:VAL:CG1	2.35	1.04
1:B:182:MET:HE1	1:B:217:PRO:C	1.82	1.04
1:C:1115:VAL:HG12	1:C:1115:VAL:O	1.55	1.04
1:D:1230:GLN:H	1:F:877:ARG:HG2	1.23	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:505:GLN:NE2	1:E:1001:VAL:N	2.06	1.04
1:F:1047:MET:CE	1:F:1186:ARG:HH22	1.70	1.04
2:H:449:LEU:HD21	2:H:451:VAL:HG13	1.39	1.04
1:A:145:GLU:OE1	1:A:173:SER:HB2	1.57	1.03
1:A:405:GLU:OE1	1:A:405:GLU:N	1.91	1.03
1:C:782:ARG:HG2	2:K:53:PRO:N	1.73	1.03
1:C:1184:ASN:HB3	1:C:1185:PRO:HD3	1.39	1.03
1:E:295:LYS:NZ	1:E:299:VAL:O	1.90	1.03
1:E:1184:ASN:HB3	1:E:1185:PRO:HD3	1.39	1.03
1:F:746:ILE:HG21	1:F:1182:ASP:H	0.87	1.03
2:J:440:ALA:HB1	2:J:456:ASP:HB3	1.40	1.03
1:C:777:GLY:CA	2:K:52:VAL:CG1	2.35	1.03
1:E:113:ASN:ND2	1:E:115:ASP:H	1.56	1.03
1:F:182:MET:HE1	1:F:217:PRO:C	1.82	1.03
1:F:505:GLN:NE2	1:F:1000:LEU:HB3	1.72	1.03
1:F:783:LYS:CE	2:I:57:VAL:HG12	1.66	1.03
1:F:999:LYS:HG3	1:F:1022:LEU:CD2	1.87	1.03
2:G:167:ARG:HG2	2:G:210:ALA:HB1	1.08	1.03
2:J:71:LEU:HD12	2:J:80:ALA:HB2	1.38	1.03
2:J:366:ARG:HG2	2:J:391:GLN:HA	1.38	1.03
1:B:1047:MET:CE	1:B:1186:ARG:HH22	1.70	1.03
1:D:236:THR:CG2	1:D:328:ASP:H	1.70	1.03
1:E:782:ARG:CD	2:L:53:PRO:HD2	1.83	1.03
1:E:782:ARG:CD	2:L:53:PRO:HD3	1.85	1.03
2:I:220:VAL:HG23	8:I:484:FAD:N6A	1.74	1.03
2:K:167:ARG:HG2	2:K:210:ALA:HB1	1.07	1.03
2:K:242:VAL:HG12	2:K:403:PRO:HD3	1.36	1.03
1:A:238:LYS:O	1:A:242:ASN:ND2	1.91	1.03
1:B:236:THR:CG2	1:B:328:ASP:H	1.70	1.03
1:B:299:VAL:HG12	1:B:299:VAL:O	1.53	1.03
1:B:1076:GLY:HA3	1:B:1145:GLU:HG2	1.36	1.03
1:B:1227:GLU:OE2	1:D:876:ASN:HB3	1.58	1.03
1:C:182:MET:HE3	1:C:217:PRO:HB3	1.38	1.03
1:C:826:ARG:HH11	1:C:826:ARG:HG2	1.18	1.03
1:E:782:ARG:HG2	2:L:53:PRO:N	1.73	1.03
2:H:167:ARG:HG2	2:H:210:ALA:HB1	1.08	1.03
2:L:220:VAL:HG23	8:L:484:FAD:N6A	1.74	1.03
1:B:999:LYS:HG3	1:B:1022:LEU:CD2	1.87	1.03
1:D:1227:GLU:OE2	1:F:876:ASN:HB3	1.58	1.03
1:E:248:GLU:HA	1:E:251:MET:HG2	1.41	1.03
2:H:242:VAL:HG12	2:H:403:PRO:HD3	1.37	1.03

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:366:ARG:HG2	2:H:391:GLN:HA	1.38	1.03
2:J:220:VAL:HG23	8:J:484:FAD:N6A	1.74	1.03
1:A:295:LYS:NZ	1:A:299:VAL:O	1.90	1.02
1:A:505:GLN:NE2	1:A:1001:VAL:N	2.06	1.02
1:A:782:ARG:C	2:J:57:VAL:CG2	2.32	1.02
1:A:1263:HIS:CE1	1:E:900:GLY:HA3	1.84	1.02
1:B:464:ILE:HD11	1:B:779:TYR:CE2	1.93	1.02
1:B:746:ILE:HG21	1:B:1182:ASP:H	0.87	1.02
1:B:912:SER:HB2	1:B:968:PRO:HD2	1.39	1.02
1:B:1131:THR:HG23	1:B:1133:GLU:OE1	1.57	1.02
1:C:145:GLU:OE1	1:C:173:SER:HB2	1.57	1.02
1:C:1210:THR:HG22	1:C:1211:LEU:N	1.74	1.02
1:D:464:ILE:HD11	1:D:779:TYR:CE2	1.93	1.02
1:D:1221:PRO:HD2	1:D:1229:MET:HE1	1.39	1.02
1:D:1349:ARG:HH11	1:D:1349:ARG:CG	1.72	1.02
1:E:145:GLU:OE1	1:E:173:SER:HB2	1.57	1.02
1:E:182:MET:HE3	1:E:217:PRO:HB3	1.38	1.02
2:G:440:ALA:HB1	2:G:456:ASP:HB3	1.40	1.02
2:G:449:LEU:HD21	2:G:451:VAL:HG13	1.39	1.02
1:A:782:ARG:CD	2:J:53:PRO:HD2	1.83	1.02
1:C:782:ARG:C	2:K:57:VAL:CG2	2.32	1.02
1:D:1131:THR:HG23	1:D:1133:GLU:OE1	1.57	1.02
2:G:220:VAL:HG23	8:G:484:FAD:N6A	1.74	1.02
2:I:440:ALA:HB1	2:I:456:ASP:HB3	1.40	1.02
2:L:449:LEU:HD21	2:L:451:VAL:HG13	1.39	1.02
1:B:1230:GLN:H	1:D:877:ARG:HG2	1.23	1.02
1:B:1317:THR:HG22	1:B:1318:ASN:N	1.71	1.02
1:C:290:THR:HG22	1:C:292:PRO:CD	1.90	1.02
1:C:1438:ARG:HD2	2:J:376:GLY:C	1.57	1.02
1:E:182:MET:CE	1:E:217:PRO:CB	2.13	1.02
2:H:220:VAL:HG23	8:H:484:FAD:N6A	1.74	1.02
2:L:440:ALA:HB1	2:L:456:ASP:HB3	1.40	1.02
1:A:1317:THR:CG2	1:A:1358:GLU:OE1	2.08	1.02
1:B:782:ARG:NH1	2:G:51:GLY:HA2	1.75	1.02
1:B:1349:ARG:HG2	1:B:1349:ARG:NH1	1.71	1.02
1:E:522:LEU:CD2	1:E:705:LEU:CD2	2.37	1.02
2:H:471:LYS:HE2	2:H:471:LYS:HA	1.42	1.02
2:J:471:LYS:HE2	2:J:471:LYS:HA	1.42	1.02
1:A:899:ASN:C	1:C:1263:HIS:CE1	2.38	1.02
1:C:238:LYS:O	1:C:242:ASN:ND2	1.91	1.02
1:C:248:GLU:HA	1:C:251:MET:HG2	1.41	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:102:TYR:CE2	1:E:144:PHE:CE1	2.48	1.02
1:E:405:GLU:OE1	1:E:405:GLU:N	1.91	1.02
1:F:100:PHE:O	1:F:137:LYS:HE3	1.60	1.02
2:H:93:ILE:HD11	2:H:195:LEU:HD22	1.41	1.02
2:K:220:VAL:HG23	8:K:484:FAD:N6A	1.74	1.02
2:K:471:LYS:HA	2:K:471:LYS:HE2	1.42	1.02
1:A:102:TYR:CE2	1:A:144:PHE:CE1	2.48	1.01
1:A:248:GLU:HA	1:A:251:MET:HG2	1.41	1.01
1:A:826:ARG:HH11	1:A:826:ARG:HG2	1.18	1.01
1:B:876:ASN:HB3	1:F:1227:GLU:OE2	1.58	1.01
1:C:102:TYR:CE2	1:C:144:PHE:CE1	2.48	1.01
1:C:113:ASN:ND2	1:C:115:ASP:H	1.56	1.01
1:C:405:GLU:OE1	1:C:405:GLU:N	1.91	1.01
1:C:505:GLN:NE2	1:C:1001:VAL:N	2.06	1.01
1:E:290:THR:HG22	1:E:292:PRO:CD	1.90	1.01
1:A:1438:ARG:HD2	2:L:376:GLY:C	1.57	1.01
1:B:780:ARG:HD3	2:G:51:GLY:O	1.60	1.01
1:B:877:ARG:HG2	1:F:1230:GLN:H	1.23	1.01
1:D:780:ARG:HD3	2:H:51:GLY:O	1.60	1.01
1:F:227:MET:HE3	1:F:282:GLU:HA	1.37	1.01
1:F:499:PHE:HE1	1:F:742:MET:HE1	1.25	1.01
1:F:912:SER:HB2	1:F:968:PRO:HD2	1.39	1.01
2:K:93:ILE:HD11	2:K:195:LEU:HD22	1.41	1.01
1:A:310:PRO:HG3	1:A:404:ARG:NH2	1.75	1.01
1:A:672:GLN:HG3	1:A:693:MET:CE	1.91	1.01
1:C:782:ARG:CD	2:K:53:PRO:HD2	1.83	1.01
1:F:782:ARG:HH21	2:I:51:GLY:C	1.57	1.01
1:A:113:ASN:ND2	1:A:115:ASP:H	1.56	1.01
1:A:1263:HIS:CE1	1:E:899:ASN:C	2.38	1.01
1:B:100:PHE:O	1:B:137:LYS:HE3	1.60	1.01
1:B:499:PHE:HE1	1:B:742:MET:HE1	1.25	1.01
1:C:310:PRO:HG3	1:C:404:ARG:NH2	1.75	1.01
1:C:899:ASN:C	1:E:1263:HIS:CE1	2.38	1.01
1:D:1062:ARG:O	1:D:1062:ARG:HG3	1.58	1.01
2:G:153:ILE:HD11	8:G:484:FAD:C2A	1.90	1.01
1:A:782:ARG:CG	2:J:53:PRO:CD	1.88	1.01
1:C:522:LEU:CD2	1:C:705:LEU:CD2	2.37	1.01
1:D:139:VAL:HG12	1:D:140:SER:H	1.19	1.01
1:D:1442:GLU:HG3	2:I:374:ALA:O	1.61	1.01
2:I:471:LYS:HE2	2:I:471:LYS:HA	1.42	1.01
1:A:290:THR:HG22	1:A:292:PRO:CD	1.90	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:389:GLU:HB3	1:B:403:ASP:OD2	1.61	1.00
1:B:1442:GLU:HG3	2:H:374:ALA:O	1.61	1.00
1:E:672:GLN:HG3	1:E:693:MET:CE	1.91	1.00
1:E:782:ARG:C	2:L:57:VAL:CG2	2.32	1.00
1:E:1008:THR:HG22	1:E:1009:ILE:N	1.74	1.00
1:E:1210:THR:HG22	1:E:1211:LEU:N	1.74	1.00
1:F:430:VAL:HG13	1:F:554:GLU:HB2	1.36	1.00
1:F:782:ARG:NH1	2:I:51:GLY:HA2	1.75	1.00
1:F:1184:ASN:HB3	1:F:1185:PRO:HD3	1.42	1.00
2:I:175:VAL:HG13	2:I:214:TYR:HA	1.43	1.00
2:J:324:ARG:HA	2:J:346:TRP:CE2	1.96	1.00
2:L:175:VAL:HG13	2:L:214:TYR:HA	1.43	1.00
1:A:1008:THR:HG22	1:A:1009:ILE:N	1.74	1.00
1:C:1210:THR:HG22	1:C:1211:LEU:H	0.91	1.00
1:D:782:ARG:NH1	2:H:51:GLY:HA2	1.75	1.00
1:E:1317:THR:CG2	1:E:1358:GLU:OE1	2.08	1.00
1:F:389:GLU:HB3	1:F:403:ASP:OD2	1.61	1.00
2:H:175:VAL:HG13	2:H:214:TYR:HA	1.43	1.00
2:I:324:ARG:HA	2:I:346:TRP:CE2	1.96	1.00
2:J:175:VAL:HG13	2:J:214:TYR:HA	1.43	1.00
2:K:292:VAL:HG22	2:K:394:LEU:HD13	1.43	1.00
2:L:324:ARG:HA	2:L:346:TRP:CE2	1.96	1.00
2:L:471:LYS:HE2	2:L:471:LYS:HA	1.42	1.00
1:A:877:ARG:HG2	1:C:1230:GLN:N	1.77	1.00
1:B:1184:ASN:HB3	1:B:1185:PRO:HD3	1.42	1.00
1:C:780:ARG:CZ	2:K:50:CYS:SG	2.49	1.00
1:D:913:GLY:HA2	1:D:1349:ARG:HD3	1.44	1.00
1:E:310:PRO:HG3	1:E:404:ARG:NH2	1.75	1.00
1:E:780:ARG:CZ	2:L:50:CYS:SG	2.49	1.00
2:G:292:VAL:HG22	2:G:394:LEU:HD13	1.43	1.00
1:C:1317:THR:CG2	1:C:1358:GLU:OE1	2.08	1.00
2:G:324:ARG:HA	2:G:346:TRP:CE2	1.96	1.00
1:A:522:LEU:CD2	1:A:705:LEU:CD2	2.37	1.00
1:C:182:MET:HE1	1:C:217:PRO:C	1.87	1.00
2:J:93:ILE:HD11	2:J:195:LEU:HD22	1.41	1.00
2:L:292:VAL:HG22	2:L:394:LEU:HD13	1.44	1.00
2:K:153:ILE:HD11	8:K:484:FAD:C2A	1.90	1.00
2:K:440:ALA:HB1	2:K:456:ASP:HB3	1.40	1.00
1:A:958:HIS:O	1:A:1369:THR:HG22	1.62	1.00
1:A:1230:GLN:N	1:E:877:ARG:HG2	1.77	1.00
1:B:603:HIS:HA	1:B:640:THR:HG22	1.44	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:780:ARG:CD	2:I:51:GLY:O	2.10	1.00
2:G:93:ILE:HD11	2:G:195:LEU:HD22	1.41	1.00
2:I:153:ILE:HD11	8:I:484:FAD:C2A	1.90	1.00
2:L:153:ILE:HD11	8:L:484:FAD:C2A	1.90	1.00
2:H:292:VAL:HG22	2:H:394:LEU:HD13	1.44	0.99
2:I:148:LEU:HG	2:I:234:VAL:HG23	1.44	0.99
2:J:153:ILE:HD11	8:J:484:FAD:C2A	1.90	0.99
2:K:148:LEU:HG	2:K:234:VAL:HG23	1.44	0.99
2:K:175:VAL:HG13	2:K:214:TYR:HA	1.43	0.99
1:B:787:ARG:HH12	1:B:821:PRO:HG2	1.26	0.99
1:D:780:ARG:CD	2:H:51:GLY:O	2.10	0.99
2:G:471:LYS:HA	2:G:471:LYS:HE2	1.42	0.99
2:H:148:LEU:HG	2:H:234:VAL:HG23	1.44	0.99
1:A:1210:THR:HG22	1:A:1211:LEU:N	1.74	0.99
1:C:672:GLN:HG3	1:C:693:MET:CE	1.91	0.99
1:D:746:ILE:HG21	1:D:1182:ASP:H	0.87	0.99
1:F:1349:ARG:HG2	1:F:1349:ARG:NH1	1.71	0.99
2:G:175:VAL:HG13	2:G:214:TYR:HA	1.43	0.99
2:H:324:ARG:HA	2:H:346:TRP:CE2	1.96	0.99
1:A:430:VAL:CG1	1:A:554:GLU:HB3	1.93	0.99
1:F:787:ARG:HH12	1:F:821:PRO:HG2	1.26	0.99
2:G:148:LEU:HG	2:G:234:VAL:HG23	1.44	0.99
1:A:182:MET:HE1	1:A:217:PRO:C	1.87	0.99
1:C:1393:TYR:O	1:C:1394:VAL:HG23	1.62	0.99
1:E:182:MET:HE1	1:E:217:PRO:C	1.87	0.99
1:A:251:MET:HE3	1:A:533:LEU:HD11	1.45	0.99
1:A:1393:TYR:O	1:A:1394:VAL:HG23	1.62	0.99
1:D:389:GLU:HB3	1:D:403:ASP:OD2	1.61	0.99
1:D:499:PHE:HE1	1:D:742:MET:HE1	1.26	0.99
1:F:950:THR:HG22	1:F:951:GLU:N	1.78	0.99
1:F:1449:ARG:HH11	1:F:1449:ARG:HB3	1.26	0.99
2:H:153:ILE:HD11	8:H:484:FAD:C2A	1.90	0.99
1:B:290:THR:CG2	1:B:292:PRO:HD2	1.92	0.99
2:H:440:ALA:HB1	2:H:456:ASP:HB3	1.40	0.99
1:A:780:ARG:CZ	2:J:50:CYS:SG	2.49	0.99
1:B:1449:ARG:HH11	1:B:1449:ARG:HB3	1.26	0.99
1:D:1349:ARG:HG2	1:D:1349:ARG:NH1	1.71	0.99
1:F:290:THR:CG2	1:F:292:PRO:HD2	1.92	0.99
1:F:501:GLN:HE21	1:F:653:HIS:CD2	1.81	0.99
1:C:295:LYS:NZ	1:C:299:VAL:HG12	1.78	0.99
1:E:430:VAL:CG1	1:E:554:GLU:HB3	1.92	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1210:THR:HG22	1:F:1211:LEU:H	1.28	0.99
2:K:324:ARG:HA	2:K:346:TRP:CE2	1.96	0.99
1:B:1062:ARG:O	1:B:1062:ARG:HG3	1.58	0.98
1:C:780:ARG:HH12	2:K:50:CYS:CB	1.75	0.98
1:F:381:GLU:OE1	1:F:402:ARG:NH1	1.96	0.98
1:F:825:LEU:HD13	1:F:1186:ARG:HH12	1.04	0.98
1:C:251:MET:HE3	1:C:533:LEU:HD11	1.45	0.98
1:C:877:ARG:HG2	1:E:1230:GLN:N	1.76	0.98
1:E:295:LYS:NZ	1:E:299:VAL:HG12	1.78	0.98
2:L:93:ILE:HD11	2:L:195:LEU:HD22	1.41	0.98
1:B:565:THR:HG22	1:B:602:THR:HB	1.44	0.98
1:B:963:VAL:HG12	1:B:964:MET:N	1.76	0.98
1:D:381:GLU:OE1	1:D:402:ARG:NH1	1.96	0.98
1:D:565:THR:HG22	1:D:602:THR:HB	1.45	0.98
1:E:1210:THR:CG2	1:E:1211:LEU:H	1.76	0.98
2:I:93:ILE:HD11	2:I:195:LEU:HD22	1.41	0.98
1:A:1227:GLU:OE1	1:E:902:ASN:HB3	1.63	0.98
1:B:381:GLU:OE1	1:B:402:ARG:NH1	1.96	0.98
1:D:100:PHE:O	1:D:137:LYS:HE3	1.60	0.98
1:F:780:ARG:HH12	2:I:50:CYS:CB	1.76	0.98
2:H:220:VAL:HG22	8:H:484:FAD:N1A	1.78	0.98
2:L:100:GLN:HB3	2:L:105:GLU:HG2	1.46	0.98
2:I:108:CYS:SG	2:I:110:ILE:HG12	2.04	0.98
2:L:108:CYS:SG	2:L:110:ILE:HG12	2.04	0.98
1:B:877:ARG:CG	1:F:1229:MET:HA	1.93	0.98
1:E:251:MET:HE3	1:E:533:LEU:HD11	1.45	0.98
1:E:430:VAL:CG1	1:E:554:GLU:CB	2.42	0.98
1:A:778:PHE:CZ	1:A:1039:LYS:HD2	1.99	0.98
1:A:780:ARG:HH12	2:J:50:CYS:CB	1.75	0.98
1:C:430:VAL:CG1	1:C:554:GLU:HB3	1.92	0.98
1:F:780:ARG:HD3	2:I:51:GLY:O	1.60	0.98
2:J:220:VAL:HG22	8:J:484:FAD:N1A	1.78	0.98
1:B:783:LYS:CE	2:G:57:VAL:HG12	1.66	0.98
1:D:501:GLN:HE21	1:D:653:HIS:CD2	1.81	0.98
1:E:782:ARG:CG	2:L:52:VAL:C	2.17	0.98
1:E:1393:TYR:O	1:E:1394:VAL:HG23	1.62	0.98
1:F:603:HIS:HA	1:F:640:THR:HG22	1.44	0.98
2:J:108:CYS:SG	2:J:110:ILE:HG12	2.04	0.98
1:A:295:LYS:NZ	1:A:299:VAL:HG12	1.78	0.98
1:A:430:VAL:CG1	1:A:554:GLU:CB	2.42	0.98
1:B:501:GLN:HE21	1:B:653:HIS:CD2	1.81	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:825:LEU:HD13	1:B:1186:ARG:HH12	1.04	0.98
2:H:100:GLN:HB3	2:H:105:GLU:HG2	1.46	0.98
1:A:291:ALA:HB3	1:A:292:PRO:HD3	1.46	0.98
1:F:1442:GLU:HG3	2:G:374:ALA:O	1.61	0.98
2:I:292:VAL:HG22	2:I:394:LEU:HD13	1.43	0.98
2:L:220:VAL:HG22	8:L:484:FAD:N1A	1.78	0.98
2:G:108:CYS:SG	2:G:110:ILE:HG12	2.04	0.97
1:A:1447:TRP:CE2	1:A:1451:VAL:HG22	1.99	0.97
1:B:876:ASN:HB3	1:F:1227:GLU:OE1	1.64	0.97
1:B:1229:MET:HA	1:D:877:ARG:CG	1.93	0.97
1:D:290:THR:CG2	1:D:292:PRO:HD2	1.92	0.97
1:E:1387:MET:HG2	1:E:1387:MET:O	1.64	0.97
2:G:220:VAL:HG22	8:G:484:FAD:N1A	1.78	0.97
2:H:108:CYS:SG	2:H:110:ILE:HG12	2.04	0.97
1:B:780:ARG:CD	2:G:51:GLY:O	2.10	0.97
1:D:1184:ASN:HB3	1:D:1185:PRO:HD3	1.42	0.97
1:E:958:HIS:O	1:E:1369:THR:HG22	1.62	0.97
1:F:603:HIS:CA	1:F:640:THR:HG22	1.94	0.97
2:G:100:GLN:HB3	2:G:105:GLU:HG2	1.46	0.97
2:J:100:GLN:HB3	2:J:105:GLU:HG2	1.46	0.97
2:J:148:LEU:HG	2:J:234:VAL:HG23	1.44	0.97
1:D:950:THR:HG22	1:D:951:GLU:N	1.78	0.97
2:J:292:VAL:HG22	2:J:394:LEU:HD13	1.43	0.97
2:L:90:PHE:HB3	2:L:93:ILE:CG2	1.95	0.97
1:A:875:MET:HE1	1:A:1139:PHE:HE2	1.17	0.97
1:A:1210:THR:CG2	1:A:1211:LEU:H	1.76	0.97
1:C:447:LEU:HD21	1:C:674:ALA:HA	1.46	0.97
1:C:1008:THR:HG22	1:C:1009:ILE:N	1.74	0.97
1:E:959:SER:HA	1:E:1369:THR:CG2	1.94	0.97
1:F:963:VAL:HG12	1:F:964:MET:N	1.77	0.97
2:J:71:LEU:HG	2:J:79:GLU:HB2	1.47	0.97
2:K:153:ILE:HD11	8:K:484:FAD:H2A	1.46	0.97
1:B:920:GLU:HB3	1:B:1256:MET:HE2	1.47	0.97
1:D:780:ARG:NH2	2:H:50:CYS:SG	2.38	0.97
1:D:782:ARG:CG	2:H:53:PRO:CD	1.77	0.97
1:E:1447:TRP:CE2	1:E:1451:VAL:HG22	1.99	0.97
2:J:44:ALA:HA	2:J:69:LEU:HD11	1.45	0.97
1:C:291:ALA:HB3	1:C:292:PRO:HD3	1.46	0.97
1:C:958:HIS:O	1:C:1369:THR:HG22	1.62	0.97
1:E:780:ARG:HH12	2:L:50:CYS:CB	1.75	0.97
1:B:603:HIS:CA	1:B:640:THR:HG22	1.95	0.97

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:913:GLY:HA2	1:B:1349:ARG:HD3	1.44	0.97
1:C:345:MET:HG3	1:C:346:ASP:N	1.72	0.97
1:F:353:MET:HE2	1:F:366:GLY:O	1.64	0.97
2:I:44:ALA:HA	2:I:69:LEU:HD11	1.45	0.97
2:I:220:VAL:HG22	8:I:484:FAD:N1A	1.78	0.97
2:K:220:VAL:HG22	8:K:484:FAD:N1A	1.78	0.97
1:D:603:HIS:CA	1:D:640:THR:HG22	1.95	0.97
2:H:153:ILE:HD11	8:H:484:FAD:H2A	1.46	0.97
2:I:71:LEU:HG	2:I:79:GLU:HB2	1.47	0.97
2:L:71:LEU:HD12	2:L:80:ALA:CB	1.94	0.97
1:B:652:THR:HG22	1:B:703:GLY:HA3	1.47	0.96
1:B:1317:THR:CG2	1:B:1358:GLU:OE1	2.13	0.96
1:D:603:HIS:HA	1:D:640:THR:HG22	1.44	0.96
2:G:90:PHE:HB3	2:G:93:ILE:CG2	1.95	0.96
2:K:327:MET:HB2	2:K:346:TRP:CH2	2.00	0.96
1:A:902:ASN:HB3	1:C:1227:GLU:OE1	1.63	0.96
1:A:1387:MET:HG2	1:A:1387:MET:O	1.64	0.96
1:B:1227:GLU:OE2	1:D:876:ASN:CB	2.14	0.96
1:D:780:ARG:HH12	2:H:50:CYS:CB	1.76	0.96
1:F:780:ARG:NH2	2:I:50:CYS:SG	2.38	0.96
1:F:1039:LYS:O	1:F:1040:PHE:CD1	2.18	0.96
1:F:1349:ARG:HH11	1:F:1349:ARG:CG	1.72	0.96
2:I:327:MET:HB2	2:I:346:TRP:CH2	2.00	0.96
2:J:71:LEU:HD12	2:J:80:ALA:CB	1.94	0.96
1:B:513:SER:HB3	1:B:520:MET:CE	1.95	0.96
1:B:780:ARG:HH12	2:G:50:CYS:CB	1.76	0.96
1:B:899:ASN:C	1:F:1263:HIS:CE1	2.43	0.96
1:C:781:PHE:C	2:K:52:VAL:CB	2.39	0.96
1:C:959:SER:HA	1:C:1369:THR:CG2	1.95	0.96
1:D:652:THR:HG22	1:D:703:GLY:HA3	1.47	0.96
1:E:505:GLN:HE22	1:E:1001:VAL:N	1.61	0.96
1:E:778:PHE:CZ	1:E:1039:LYS:HD2	1.99	0.96
1:F:513:SER:HB3	1:F:520:MET:CE	1.95	0.96
1:F:913:GLY:HA2	1:F:1349:ARG:HD3	1.44	0.96
2:H:71:LEU:HG	2:H:79:GLU:HB2	1.47	0.96
2:I:71:LEU:HD12	2:I:80:ALA:CB	1.95	0.96
2:L:148:LEU:HG	2:L:234:VAL:HG23	1.44	0.96
1:A:959:SER:HA	1:A:1369:THR:CG2	1.94	0.96
1:B:876:ASN:CB	1:F:1227:GLU:OE2	2.14	0.96
1:C:505:GLN:HE22	1:C:1001:VAL:N	1.62	0.96
1:D:430:VAL:HG13	1:D:554:GLU:HB2	1.36	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:963:VAL:HG12	1:D:964:MET:N	1.77	0.96
1:D:1229:MET:HA	1:F:877:ARG:CG	1.93	0.96
2:K:90:PHE:HB3	2:K:93:ILE:CG2	1.95	0.96
1:A:505:GLN:HE22	1:A:1001:VAL:N	1.61	0.96
1:D:1210:THR:HG22	1:D:1211:LEU:H	1.28	0.96
1:D:1227:GLU:OE2	1:F:876:ASN:CB	2.14	0.96
1:D:1227:GLU:OE1	1:F:876:ASN:HB3	1.64	0.96
1:F:565:THR:HG22	1:F:602:THR:HB	1.44	0.96
1:F:959:SER:HA	1:F:1369:THR:CG2	1.96	0.96
2:G:327:MET:HB2	2:G:346:TRP:CH2	2.00	0.96
1:C:1105:VAL:HA	2:K:54:PHE:CE1	2.01	0.96
1:D:959:SER:HA	1:D:1369:THR:CG2	1.96	0.96
1:D:1317:THR:CG2	1:D:1358:GLU:OE1	2.13	0.96
1:E:345:MET:HG3	1:E:346:ASP:N	1.72	0.96
2:J:90:PHE:CE2	2:J:203:ARG:HG3	2.01	0.96
1:B:353:MET:HE2	1:B:366:GLY:O	1.64	0.96
1:B:780:ARG:CZ	2:G:50:CYS:SG	2.54	0.96
1:B:1039:LYS:O	1:B:1040:PHE:CD1	2.18	0.96
1:C:1447:TRP:CE2	1:C:1451:VAL:HG22	1.99	0.96
1:D:353:MET:HE2	1:D:366:GLY:O	1.64	0.96
1:D:1039:LYS:O	1:D:1040:PHE:CD1	2.18	0.96
1:E:734:LEU:CD1	1:E:738:HIS:HD2	1.79	0.96
2:H:90:PHE:HB3	2:H:93:ILE:CG2	1.95	0.96
2:H:327:MET:HB2	2:H:346:TRP:CH2	2.00	0.96
1:A:1105:VAL:HA	2:J:54:PHE:CE1	2.01	0.96
1:B:950:THR:HG22	1:B:951:GLU:N	1.78	0.96
1:C:902:ASN:HB3	1:E:1227:GLU:OE1	1.63	0.96
2:H:200:VAL:HA	2:H:203:ARG:HD3	1.47	0.96
2:I:90:PHE:HB3	2:I:93:ILE:CG2	1.95	0.96
2:K:71:LEU:HD12	2:K:80:ALA:CB	1.95	0.96
2:K:108:CYS:SG	2:K:110:ILE:HG12	2.04	0.96
1:B:959:SER:HA	1:B:1369:THR:CG2	1.96	0.96
1:D:782:ARG:NH2	2:H:51:GLY:N	2.14	0.96
2:K:90:PHE:CE2	2:K:203:ARG:HG3	2.01	0.96
1:A:139:VAL:HG12	1:A:140:SER:N	1.76	0.96
1:C:266:VAL:HG12	1:C:279:THR:CG2	1.96	0.96
1:E:266:VAL:HG12	1:E:279:THR:CG2	1.96	0.96
1:E:1105:VAL:HA	2:L:54:PHE:CE1	2.01	0.96
1:F:1317:THR:CG2	1:F:1358:GLU:OE1	2.13	0.96
2:J:327:MET:HB2	2:J:346:TRP:CH2	2.00	0.96
1:A:781:PHE:C	2:J:52:VAL:CB	2.39	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:782:ARG:HH21	2:G:51:GLY:C	1.57	0.95
1:E:1449:ARG:O	1:E:1452:THR:HB	1.66	0.95
2:J:90:PHE:HB3	2:J:93:ILE:CG2	1.95	0.95
1:D:1449:ARG:HH11	1:D:1449:ARG:HB3	1.26	0.95
2:G:153:ILE:HD11	8:G:484:FAD:H2A	1.46	0.95
2:H:71:LEU:HD12	2:H:80:ALA:CB	1.94	0.95
1:C:430:VAL:CG1	1:C:554:GLU:CB	2.42	0.95
1:C:778:PHE:CZ	1:C:1039:LYS:HD2	1.99	0.95
1:D:780:ARG:CZ	2:H:50:CYS:SG	2.54	0.95
1:F:782:ARG:NH2	2:I:51:GLY:N	2.14	0.95
2:I:110:ILE:HD13	2:I:118:VAL:HG13	1.49	0.95
2:J:110:ILE:HD13	2:J:118:VAL:HG13	1.49	0.95
1:A:1105:VAL:HA	2:J:54:PHE:HE1	1.31	0.95
1:D:1263:HIS:CE1	1:F:899:ASN:C	2.43	0.95
1:E:291:ALA:HB3	1:E:292:PRO:HD3	1.46	0.95
2:I:90:PHE:CE2	2:I:203:ARG:HG3	2.01	0.95
1:C:900:GLY:N	1:E:1263:HIS:HE1	1.65	0.95
1:D:920:GLU:HB3	1:D:1256:MET:HE2	1.47	0.95
1:F:780:ARG:CZ	2:I:50:CYS:SG	2.54	0.95
1:F:782:ARG:HD3	2:I:53:PRO:HD3	1.49	0.95
1:B:317:ILE:O	1:B:321:ASN:ND2	1.99	0.95
1:B:734:LEU:CD1	1:B:738:HIS:HD2	1.80	0.95
1:E:781:PHE:C	2:L:52:VAL:CB	2.39	0.95
2:H:90:PHE:CE2	2:H:203:ARG:HG3	2.01	0.95
1:C:1449:ARG:O	1:C:1452:THR:HB	1.66	0.95
1:E:1438:ARG:CB	2:K:376:GLY:CA	2.31	0.95
1:F:652:THR:CG2	1:F:703:GLY:HA3	1.97	0.95
2:L:110:ILE:HD13	2:L:118:VAL:HG13	1.49	0.95
1:B:1263:HIS:CE1	1:D:899:ASN:C	2.43	0.95
1:D:782:ARG:NH2	2:H:51:GLY:CA	0.80	0.95
1:F:782:ARG:NH2	2:I:51:GLY:CA	0.80	0.95
2:G:44:ALA:HA	2:G:69:LEU:HD11	1.45	0.95
2:H:44:ALA:HA	2:H:69:LEU:HD11	1.45	0.95
2:L:153:ILE:HD11	8:L:484:FAD:H2A	1.46	0.95
1:A:1230:GLN:HB2	1:E:877:ARG:HD3	1.49	0.95
1:D:30:HIS:ND1	1:D:1238:THR:HA	1.82	0.95
1:D:531:ASN:HB3	1:D:534:ASP:HB2	1.49	0.95
2:G:71:LEU:HD12	2:G:80:ALA:CB	1.94	0.95
2:L:327:MET:HB2	2:L:346:TRP:CH2	2.00	0.95
1:B:30:HIS:ND1	1:B:1238:THR:HA	1.82	0.95
1:B:900:GLY:O	1:F:1227:GLU:CA	2.14	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1387:MET:HG2	1:C:1387:MET:O	1.64	0.95
1:E:139:VAL:HG12	1:E:140:SER:N	1.76	0.95
1:F:746:ILE:O	1:F:747:SER:O	1.85	0.95
1:F:920:GLU:HB3	1:F:1256:MET:HE2	1.47	0.95
2:J:200:VAL:HA	2:J:203:ARG:HD3	1.47	0.95
2:K:71:LEU:HG	2:K:79:GLU:HB2	1.47	0.95
2:K:100:GLN:HB3	2:K:105:GLU:HG2	1.46	0.95
2:L:71:LEU:HG	2:L:79:GLU:HB2	1.47	0.95
1:B:531:ASN:HB3	1:B:534:ASP:HB2	1.49	0.94
1:B:780:ARG:NH2	2:G:50:CYS:SG	2.38	0.94
1:B:950:THR:HG22	1:B:952:MET:H	1.32	0.94
1:C:1438:ARG:CB	2:J:376:GLY:CA	2.31	0.94
1:D:310:PRO:HG3	1:D:404:ARG:NH2	1.82	0.94
1:F:452:GLN:NE2	1:F:764:THR:HG21	1.82	0.94
1:B:452:GLN:NE2	1:B:764:THR:HG21	1.82	0.94
1:D:447:LEU:HD12	1:D:451:GLN:HG3	1.50	0.94
2:I:100:GLN:HB3	2:I:105:GLU:HG2	1.46	0.94
2:K:44:ALA:HA	2:K:69:LEU:HD11	1.45	0.94
2:K:118:VAL:HG21	7:K:483:SF4:S4	2.07	0.94
2:L:80:ALA:HB3	2:L:127:ILE:HG12	1.49	0.94
2:L:305:VAL:CG1	2:L:342:VAL:HG21	1.97	0.94
1:B:310:PRO:HG3	1:B:404:ARG:NH2	1.82	0.94
1:B:782:ARG:NH2	2:G:51:GLY:CA	0.80	0.94
1:E:447:LEU:HD21	1:E:674:ALA:HA	1.46	0.94
1:F:310:PRO:HG3	1:F:404:ARG:NH2	1.82	0.94
1:F:317:ILE:O	1:F:321:ASN:ND2	1.99	0.94
2:G:90:PHE:CE2	2:G:203:ARG:HG3	2.01	0.94
2:I:305:VAL:CG1	2:I:342:VAL:HG21	1.97	0.94
1:B:387:PRO:HD3	1:B:1344:GLU:OE2	1.67	0.94
1:B:782:ARG:NH2	2:G:51:GLY:N	2.14	0.94
1:B:1227:GLU:OE1	1:D:876:ASN:HB3	1.64	0.94
1:C:426:LEU:HD22	1:C:543:LEU:HB3	1.47	0.94
1:D:145:GLU:OE1	1:D:173:SER:HB2	1.68	0.94
1:D:253:HIS:CG	1:D:254:PRO:CD	2.51	0.94
1:D:787:ARG:HH12	1:D:821:PRO:HG2	1.25	0.94
1:F:447:LEU:HD12	1:F:451:GLN:HG3	1.50	0.94
2:G:110:ILE:HD13	2:G:118:VAL:HG13	1.49	0.94
2:H:110:ILE:HD13	2:H:118:VAL:HG13	1.49	0.94
2:H:305:VAL:CG1	2:H:342:VAL:HG21	1.97	0.94
2:I:80:ALA:HB3	2:I:127:ILE:HG12	1.49	0.94
2:I:153:ILE:HD11	8:I:484:FAD:H2A	1.46	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:200:VAL:HA	2:K:203:ARG:HD3	1.47	0.94
2:K:305:VAL:CG1	2:K:342:VAL:HG21	1.97	0.94
1:C:1210:THR:CG2	1:C:1211:LEU:H	1.76	0.94
2:H:71:LEU:HD21	2:H:76:ARG:HB2	1.50	0.94
2:I:167:ARG:CG	2:I:210:ALA:HB1	1.98	0.94
2:J:153:ILE:HD11	8:J:484:FAD:H2A	1.46	0.94
1:A:734:LEU:CD1	1:A:738:HIS:HD2	1.79	0.94
1:A:877:ARG:HD3	1:C:1230:GLN:HB2	1.49	0.94
1:D:513:SER:HB3	1:D:520:MET:CE	1.95	0.94
2:G:181:ARG:HG3	2:G:187:VAL:HG11	1.49	0.94
2:J:167:ARG:CG	2:J:210:ALA:HB1	1.98	0.94
1:A:1449:ARG:O	1:A:1452:THR:HB	1.66	0.94
1:B:1227:GLU:CA	1:D:900:GLY:O	2.15	0.94
1:B:1349:ARG:HH11	1:B:1349:ARG:CG	1.72	0.94
1:C:214:ASN:O	1:C:1015:LYS:HE2	1.67	0.94
1:C:999:LYS:HG3	1:C:1022:LEU:HD23	1.49	0.94
1:D:317:ILE:O	1:D:321:ASN:ND2	1.99	0.94
1:F:30:HIS:ND1	1:F:1238:THR:HA	1.82	0.94
2:L:90:PHE:CE2	2:L:203:ARG:HG3	2.01	0.94
1:A:266:VAL:HG12	1:A:279:THR:CG2	1.96	0.94
1:A:426:LEU:HD22	1:A:543:LEU:HB3	1.47	0.94
1:C:734:LEU:CD1	1:C:738:HIS:HD2	1.79	0.94
1:C:877:ARG:HD3	1:E:1230:GLN:HB2	1.49	0.94
1:D:825:LEU:CD1	1:D:1186:ARG:NH1	2.17	0.94
1:D:1227:GLU:CA	1:F:900:GLY:O	2.15	0.94
1:E:426:LEU:HD22	1:E:543:LEU:HB3	1.47	0.94
1:F:145:GLU:OE1	1:F:173:SER:HB2	1.68	0.94
1:F:387:PRO:HD3	1:F:1344:GLU:OE2	1.67	0.94
2:J:305:VAL:HG13	2:J:342:VAL:HG21	1.50	0.94
2:K:110:ILE:HD13	2:K:118:VAL:HG13	1.49	0.94
2:L:167:ARG:CG	2:L:210:ALA:HB1	1.98	0.94
1:D:652:THR:CG2	1:D:703:GLY:HA3	1.97	0.94
1:E:113:ASN:C	1:E:113:ASN:HD22	1.59	0.94
2:G:71:LEU:HG	2:G:79:GLU:HB2	1.47	0.94
2:H:167:ARG:CG	2:H:210:ALA:HB1	1.98	0.94
2:K:327:MET:HB2	2:K:346:TRP:CZ2	2.03	0.94
2:L:44:ALA:HA	2:L:69:LEU:HD11	1.45	0.94
1:A:52:GLN:HE22	1:A:71:LEU:H	1.15	0.94
1:A:345:MET:HG3	1:A:346:ASP:N	1.72	0.94
1:A:1438:ARG:HB2	2:L:376:GLY:H	1.33	0.94
1:B:1008:THR:HG22	1:B:1009:ILE:N	1.82	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1210:THR:HG22	1:B:1211:LEU:H	1.28	0.94
1:C:782:ARG:CG	2:K:53:PRO:N	2.30	0.94
1:D:387:PRO:HD3	1:D:1344:GLU:OE2	1.67	0.94
1:E:782:ARG:CG	2:L:53:PRO:N	2.30	0.94
1:F:313:HIS:O	1:F:317:ILE:HG13	1.68	0.94
1:F:652:THR:HG22	1:F:703:GLY:HA3	1.47	0.94
2:G:449:LEU:HD11	2:G:451:VAL:HG12	1.49	0.94
1:A:782:ARG:CG	2:J:53:PRO:N	2.30	0.93
1:B:746:ILE:O	1:B:747:SER:O	1.85	0.93
1:D:728:ILE:HD12	1:D:1047:MET:HE3	1.49	0.93
1:F:531:ASN:HB3	1:F:534:ASP:HB2	1.49	0.93
2:I:200:VAL:HA	2:I:203:ARG:HD3	1.47	0.93
2:I:327:MET:HB2	2:I:346:TRP:CZ2	2.03	0.93
2:J:305:VAL:CG1	2:J:342:VAL:HG21	1.97	0.93
2:K:321:ARG:HB2	2:K:351:GLU:HG2	1.49	0.93
2:L:305:VAL:HG13	2:L:342:VAL:HG21	1.50	0.93
1:E:950:THR:HG22	1:E:951:GLU:N	1.83	0.93
1:F:139:VAL:HG12	1:F:140:SER:H	1.19	0.93
1:F:253:HIS:CG	1:F:254:PRO:CD	2.51	0.93
1:F:706:LYS:NZ	1:F:940:GLU:OE1	2.02	0.93
1:F:1449:ARG:HB2	1:F:1449:ARG:CZ	1.98	0.93
2:I:305:VAL:HG13	2:I:342:VAL:HG21	1.50	0.93
2:J:61:VAL:HG22	2:J:87:THR:HB	1.51	0.93
2:K:181:ARG:HG3	2:K:187:VAL:HG11	1.49	0.93
1:B:652:THR:CG2	1:B:703:GLY:HA3	1.97	0.93
1:D:777:GLY:CA	2:H:52:VAL:HG12	1.99	0.93
2:J:71:LEU:HD21	2:J:76:ARG:HB2	1.50	0.93
1:E:999:LYS:HG3	1:E:1022:LEU:HD23	1.49	0.93
2:H:31:ILE:HD13	2:H:336:HIS:CD2	2.03	0.93
2:K:31:ILE:HD13	2:K:336:HIS:CD2	2.04	0.93
2:K:449:LEU:HD11	2:K:451:VAL:HG12	1.49	0.93
1:D:734:LEU:CD1	1:D:738:HIS:HD2	1.80	0.93
1:D:746:ILE:O	1:D:747:SER:O	1.85	0.93
2:G:118:VAL:HG21	7:G:483:SF4:S4	2.07	0.93
2:G:167:ARG:CG	2:G:210:ALA:HB1	1.98	0.93
2:J:118:VAL:HG21	7:J:483:SF4:S4	2.07	0.93
2:K:167:ARG:CG	2:K:210:ALA:HB1	1.98	0.93
2:L:118:VAL:HG21	7:L:483:SF4:S4	2.07	0.93
1:A:290:THR:CG2	1:A:292:PRO:CD	2.46	0.93
1:C:499:PHE:HE2	1:C:742:MET:HE1	1.34	0.93
1:C:1366:GLU:HG2	1:C:1367:TYR:CD2	2.04	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:706:LYS:NZ	1:D:940:GLU:OE1	2.02	0.93
1:E:499:PHE:HE2	1:E:742:MET:HE1	1.34	0.93
1:F:734:LEU:CD1	1:F:738:HIS:HD2	1.80	0.93
1:F:768:GLU:HG2	1:F:769:GLU:H	1.34	0.93
2:I:118:VAL:HG21	7:I:483:SF4:S4	2.07	0.93
2:I:259:VAL:CG2	2:I:264:TYR:HB2	1.99	0.93
2:K:186:LEU:HD23	2:K:195:LEU:CD2	1.99	0.93
2:L:77:LEU:HD23	2:L:127:ILE:HA	1.51	0.93
2:L:200:VAL:HA	2:L:203:ARG:HD3	1.47	0.93
1:A:447:LEU:HD21	1:A:674:ALA:HA	1.46	0.93
1:A:1366:GLU:HG2	1:A:1367:TYR:CD2	2.04	0.93
1:B:145:GLU:OE1	1:B:173:SER:HB2	1.68	0.93
1:B:447:LEU:HD12	1:B:451:GLN:HG3	1.50	0.93
1:B:777:GLY:HA2	2:G:52:VAL:HG12	1.50	0.93
1:B:1317:THR:HG21	1:B:1358:GLU:OE1	1.69	0.93
1:E:266:VAL:HG12	1:E:279:THR:HG23	1.51	0.93
1:E:404:ARG:HB3	1:E:405:GLU:OE1	1.69	0.93
1:E:780:ARG:CD	2:L:51:GLY:O	2.17	0.93
1:E:1076:GLY:HA3	1:E:1145:GLU:HG2	1.51	0.93
2:H:118:VAL:HG21	7:H:483:SF4:S4	2.07	0.93
2:H:181:ARG:HG3	2:H:187:VAL:HG11	1.49	0.93
2:L:449:LEU:HD11	2:L:451:VAL:HG12	1.49	0.93
1:A:404:ARG:HB3	1:A:405:GLU:OE1	1.69	0.93
1:B:728:ILE:HD12	1:B:1047:MET:HE3	1.49	0.93
1:D:950:THR:CG2	1:D:951:GLU:N	2.31	0.93
2:H:327:MET:HB2	2:H:346:TRP:CZ2	2.04	0.93
2:L:327:MET:HB2	2:L:346:TRP:CZ2	2.04	0.93
1:B:253:HIS:CG	1:B:254:PRO:CD	2.51	0.93
1:C:404:ARG:HB3	1:C:405:GLU:OE1	1.69	0.93
1:C:1076:GLY:HA3	1:C:1145:GLU:HG2	1.51	0.93
1:D:452:GLN:NE2	1:D:764:THR:HG21	1.82	0.93
1:F:777:GLY:CA	2:I:52:VAL:HG12	1.99	0.93
2:G:80:ALA:HB3	2:G:127:ILE:HG12	1.49	0.93
2:K:259:VAL:CG2	2:K:264:TYR:HB2	1.99	0.93
2:L:71:LEU:HD21	2:L:76:ARG:HB2	1.50	0.93
1:A:999:LYS:HG3	1:A:1022:LEU:HD23	1.49	0.93
1:B:950:THR:CG2	1:B:951:GLU:N	2.32	0.93
1:D:1008:THR:HG22	1:D:1009:ILE:N	1.82	0.93
1:E:1366:GLU:HG2	1:E:1367:TYR:CD2	2.04	0.93
2:H:61:VAL:HG22	2:H:87:THR:HB	1.51	0.93
2:H:186:LEU:HD23	2:H:195:LEU:CD2	1.99	0.93

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:61:VAL:HG22	2:I:87:THR:HB	1.51	0.93
2:L:259:VAL:CG2	2:L:264:TYR:HB2	1.99	0.93
1:A:958:HIS:O	1:A:1369:THR:CG2	2.17	0.92
1:B:464:ILE:HD11	1:B:779:TYR:CZ	2.04	0.92
2:G:71:LEU:HD21	2:G:76:ARG:HB2	1.50	0.92
2:G:186:LEU:HD23	2:G:195:LEU:CD2	1.99	0.92
1:A:510:PRO:HD2	1:A:970:PRO:HB3	1.52	0.92
1:E:510:PRO:HD2	1:E:970:PRO:HB3	1.51	0.92
2:G:77:LEU:HD23	2:G:127:ILE:HA	1.51	0.92
2:G:305:VAL:CG1	2:G:342:VAL:HG21	1.97	0.92
2:H:80:ALA:HB3	2:H:127:ILE:HG12	1.49	0.92
2:L:181:ARG:HG3	2:L:187:VAL:HG11	1.49	0.92
1:A:505:GLN:HE22	1:A:1001:VAL:H	0.93	0.92
1:A:780:ARG:CD	2:J:51:GLY:O	2.17	0.92
1:A:1076:GLY:HA3	1:A:1145:GLU:HG2	1.51	0.92
1:B:139:VAL:HG12	1:B:140:SER:H	1.19	0.92
2:G:200:VAL:HA	2:G:203:ARG:HD3	1.47	0.92
2:G:327:MET:HB2	2:G:346:TRP:CZ2	2.03	0.92
2:H:244:LYS:CD	2:H:404:GLU:HB3	1.99	0.92
2:I:321:ARG:HB2	2:I:351:GLU:HG2	1.49	0.92
1:B:313:HIS:O	1:B:317:ILE:HG13	1.68	0.92
1:B:706:LYS:NZ	1:B:940:GLU:OE1	2.02	0.92
1:D:464:ILE:HD11	1:D:779:TYR:CZ	2.04	0.92
1:E:214:ASN:O	1:E:1015:LYS:HE2	1.67	0.92
2:H:259:VAL:CG2	2:H:264:TYR:HB2	1.99	0.92
2:H:321:ARG:HB2	2:H:351:GLU:HG2	1.49	0.92
2:J:31:ILE:HD13	2:J:336:HIS:CD2	2.04	0.92
2:J:327:MET:HB2	2:J:346:TRP:CZ2	2.03	0.92
2:L:31:ILE:HD13	2:L:336:HIS:CD2	2.03	0.92
1:A:214:ASN:O	1:A:1015:LYS:HE2	1.67	0.92
1:A:875:MET:CE	1:A:1139:PHE:HE2	1.73	0.92
1:B:782:ARG:HD3	2:G:53:PRO:HD3	1.49	0.92
1:D:313:HIS:O	1:D:317:ILE:HG13	1.68	0.92
1:D:828:LEU:HD22	1:D:1172:SER:HA	1.50	0.92
1:F:950:THR:HG22	1:F:952:MET:H	1.32	0.92
2:H:440:ALA:HB1	2:H:456:ASP:CB	2.00	0.92
2:J:321:ARG:HB2	2:J:351:GLU:HG2	1.49	0.92
2:K:61:VAL:HG22	2:K:87:THR:HB	1.51	0.92
1:A:582:LEU:H	1:A:755:GLN:HE22	1.18	0.92
1:A:838:VAL:CG1	1:A:839:PRO:HD2	2.00	0.92
1:B:242:ASN:H	1:B:242:ASN:HD22	1.10	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1449:ARG:HB2	1:B:1449:ARG:CZ	1.98	0.92
1:C:875:MET:HE1	1:C:1139:PHE:HE2	1.17	0.92
1:C:1105:VAL:HA	2:K:54:PHE:HE1	1.31	0.92
1:E:958:HIS:O	1:E:1369:THR:CG2	2.17	0.92
1:F:464:ILE:HD11	1:F:779:TYR:CZ	2.04	0.92
2:G:31:ILE:HD13	2:G:336:HIS:CD2	2.04	0.92
2:H:447:ALA:HB1	2:H:452:TRP:CE3	2.05	0.92
2:I:31:ILE:HD13	2:I:336:HIS:CD2	2.04	0.92
2:I:71:LEU:HD21	2:I:76:ARG:HB2	1.50	0.92
2:K:244:LYS:CD	2:K:404:GLU:HB3	1.99	0.92
2:K:440:ALA:HB1	2:K:456:ASP:CB	2.00	0.92
1:B:826:ARG:HH11	1:B:826:ARG:HG2	1.35	0.92
4:F:2474:FMN:C1'	4:F:2474:FMN:O4'	2.10	0.92
2:H:305:VAL:HG13	2:H:342:VAL:HG21	1.50	0.92
2:J:80:ALA:HB3	2:J:127:ILE:HG12	1.49	0.92
2:L:321:ARG:HB2	2:L:351:GLU:HG2	1.49	0.92
1:A:299:VAL:O	1:A:299:VAL:HG12	1.69	0.92
1:A:826:ARG:HG2	1:A:826:ARG:NH1	1.83	0.92
1:C:139:VAL:HG12	1:C:140:SER:N	1.76	0.92
1:D:782:ARG:HD3	2:H:53:PRO:HD3	1.49	0.92
1:D:1449:ARG:HB2	1:D:1449:ARG:CZ	1.98	0.92
1:E:875:MET:CE	1:E:1139:PHE:HE2	1.73	0.92
1:F:242:ASN:H	1:F:242:ASN:HD22	1.10	0.92
2:H:319:LEU:HD11	2:H:369:LEU:CD2	2.00	0.92
1:E:838:VAL:CG1	1:E:839:PRO:HD2	2.00	0.92
1:F:1008:THR:HG22	1:F:1009:ILE:N	1.82	0.92
1:F:1317:THR:HG21	1:F:1358:GLU:OE1	1.69	0.92
2:G:440:ALA:HB1	2:G:456:ASP:CB	2.00	0.92
2:J:259:VAL:CG2	2:J:264:TYR:HB2	1.99	0.92
2:J:319:LEU:HD11	2:J:369:LEU:CD2	2.00	0.92
1:F:213:THR:HB	1:F:1008:THR:HG23	1.52	0.92
2:I:167:ARG:HG2	2:I:210:ALA:CB	2.00	0.92
1:A:218:THR:HG23	1:A:220:PRO:HD2	1.53	0.91
1:A:777:GLY:HA2	2:J:52:VAL:HG12	1.53	0.91
1:A:783:LYS:N	2:J:57:VAL:CG2	2.33	0.91
1:A:1263:HIS:HE1	1:E:900:GLY:N	1.65	0.91
1:C:510:PRO:HD2	1:C:970:PRO:HB3	1.52	0.91
1:E:52:GLN:HE22	1:E:71:LEU:H	1.16	0.91
2:J:440:ALA:HB1	2:J:456:ASP:CB	2.00	0.91
2:L:186:LEU:HD23	2:L:195:LEU:CD2	1.99	0.91
1:B:452:GLN:NE2	1:B:764:THR:CG2	2.33	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:780:ARG:CD	2:K:51:GLY:O	2.17	0.91
1:E:464:ILE:HD11	1:E:779:TYR:CE1	2.05	0.91
2:G:259:VAL:CG2	2:G:264:TYR:HB2	1.99	0.91
2:G:321:ARG:HB2	2:G:351:GLU:HG2	1.49	0.91
2:G:430:LYS:CD	2:G:460:ALA:HB2	2.01	0.91
2:I:77:LEU:HD23	2:I:127:ILE:HA	1.51	0.91
2:J:167:ARG:HG2	2:J:210:ALA:CB	2.00	0.91
2:K:80:ALA:HB3	2:K:127:ILE:HG12	1.49	0.91
2:L:244:LYS:CD	2:L:404:GLU:HB3	1.99	0.91
1:A:950:THR:HG22	1:A:951:GLU:N	1.82	0.91
1:C:950:THR:HG22	1:C:951:GLU:N	1.82	0.91
1:D:452:GLN:NE2	1:D:764:THR:CG2	2.33	0.91
1:D:768:GLU:HG2	1:D:769:GLU:H	1.34	0.91
1:E:1105:VAL:HA	2:L:54:PHE:HE1	1.31	0.91
2:G:305:VAL:HG13	2:G:342:VAL:HG21	1.50	0.91
2:G:447:ALA:HB1	2:G:452:TRP:CE3	2.05	0.91
2:H:449:LEU:HD11	2:H:451:VAL:HG12	1.49	0.91
2:I:181:ARG:HG3	2:I:187:VAL:HG11	1.49	0.91
2:I:449:LEU:HD11	2:I:451:VAL:HG12	1.49	0.91
2:J:181:ARG:HG3	2:J:187:VAL:HG11	1.49	0.91
2:K:430:LYS:CD	2:K:460:ALA:HB2	2.01	0.91
1:A:464:ILE:HD11	1:A:779:TYR:CE1	2.05	0.91
1:B:464:ILE:CD1	1:B:779:TYR:CE2	2.54	0.91
1:F:826:ARG:HH11	1:F:826:ARG:HG2	1.35	0.91
1:F:1170:GLN:HG2	1:F:1170:GLN:O	1.69	0.91
1:C:838:VAL:CG1	1:C:839:PRO:HD2	2.00	0.91
1:D:242:ASN:HD22	1:D:242:ASN:H	1.10	0.91
1:D:1366:GLU:HG2	1:D:1367:TYR:CD2	2.05	0.91
1:E:781:PHE:CE2	2:L:57:VAL:HG21	2.05	0.91
2:I:92:GLU:HG2	2:I:128:ASN:CG	1.95	0.91
2:J:244:LYS:CD	2:J:404:GLU:HB3	1.99	0.91
1:A:783:LYS:HA	2:J:57:VAL:HG22	0.92	0.91
1:B:113:ASN:C	1:B:113:ASN:HD22	1.78	0.91
1:C:958:HIS:O	1:C:1369:THR:CG2	2.17	0.91
1:F:254:PRO:HG2	1:F:255:ALA:H	1.36	0.91
2:K:71:LEU:HD21	2:K:76:ARG:HB2	1.50	0.91
2:K:305:VAL:HG13	2:K:342:VAL:HG21	1.50	0.91
2:L:430:LYS:CD	2:L:460:ALA:HB2	2.01	0.91
2:L:440:ALA:HB1	2:L:456:ASP:CB	2.00	0.91
1:A:266:VAL:O	1:A:279:THR:HG21	1.71	0.91
1:E:102:TYR:CE2	1:E:144:PHE:HE1	1.88	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:826:ARG:HG2	1:E:826:ARG:NH1	1.83	0.91
1:F:464:ILE:CD1	1:F:779:TYR:CE2	2.54	0.91
2:H:345:ILE:H	2:H:345:ILE:HD13	1.36	0.91
2:I:244:LYS:CD	2:I:404:GLU:HB3	1.99	0.91
2:L:61:VAL:HG22	2:L:87:THR:HB	1.51	0.91
2:L:367:ILE:HG23	2:L:390:VAL:CG2	2.01	0.91
2:L:447:ALA:HB1	2:L:452:TRP:CE3	2.05	0.91
1:A:102:TYR:CE2	1:A:144:PHE:HE1	1.88	0.91
1:A:499:PHE:HE2	1:A:742:MET:HE1	1.34	0.91
1:C:781:PHE:CE2	2:K:57:VAL:HG21	2.05	0.91
1:C:783:LYS:N	2:K:57:VAL:CG2	2.33	0.91
1:E:299:VAL:O	1:E:299:VAL:HG12	1.69	0.91
1:E:505:GLN:HE22	1:E:1001:VAL:H	0.93	0.91
1:E:875:MET:HE1	1:E:1139:PHE:HE2	1.17	0.91
2:H:61:VAL:CG2	2:H:87:THR:HB	2.01	0.91
2:I:447:ALA:HB1	2:I:452:TRP:CE3	2.05	0.91
2:K:345:ILE:HD13	2:K:345:ILE:H	1.36	0.91
2:L:319:LEU:HD11	2:L:369:LEU:CD2	2.00	0.91
1:B:768:GLU:HG2	1:B:769:GLU:H	1.34	0.91
1:C:582:LEU:H	1:C:755:GLN:HE22	1.18	0.91
1:F:728:ILE:HD12	1:F:1047:MET:HE3	1.49	0.91
2:G:244:LYS:CD	2:G:404:GLU:HB3	1.99	0.91
1:A:59:VAL:CG2	1:A:105:TYR:HD2	1.82	0.91
1:C:266:VAL:HG12	1:C:279:THR:HG23	1.51	0.91
1:D:113:ASN:HD22	1:D:113:ASN:C	1.78	0.91
1:D:704:LEU:O	1:D:706:LYS:N	2.04	0.91
1:D:950:THR:HG22	1:D:952:MET:H	1.32	0.91
4:D:2474:FMN:O4'	4:D:2474:FMN:H1'2	1.69	0.91
1:F:828:LEU:HD22	1:F:1172:SER:HA	1.50	0.91
2:G:61:VAL:HG22	2:G:87:THR:HB	1.51	0.91
2:G:319:LEU:HD11	2:G:369:LEU:CD2	2.00	0.91
2:H:430:LYS:CD	2:H:460:ALA:HB2	2.01	0.91
2:I:319:LEU:HD11	2:I:369:LEU:CD2	2.00	0.91
2:I:440:ALA:HB1	2:I:456:ASP:CB	2.00	0.91
2:J:447:ALA:HB1	2:J:452:TRP:CE3	2.05	0.91
2:K:61:VAL:CG2	2:K:87:THR:HB	2.01	0.91
2:L:92:GLU:HG2	2:L:128:ASN:CG	1.95	0.91
2:L:167:ARG:HG2	2:L:210:ALA:CB	2.00	0.91
1:B:1170:GLN:HG2	1:B:1170:GLN:O	1.68	0.90
1:D:838:VAL:HG13	1:D:839:PRO:HD2	1.53	0.90
1:D:1317:THR:HG21	1:D:1358:GLU:OE1	1.69	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:417:ASP:O	1:F:418:LYS:C	2.13	0.90
2:H:367:ILE:HG23	2:H:390:VAL:CG2	2.01	0.90
1:B:1366:GLU:HG2	1:B:1367:TYR:CD2	2.05	0.90
1:C:902:ASN:HD22	1:E:1227:GLU:HG3	1.35	0.90
1:D:826:ARG:HH11	1:D:826:ARG:HG2	1.35	0.90
2:H:167:ARG:HG2	2:H:210:ALA:CB	2.00	0.90
2:J:61:VAL:CG2	2:J:87:THR:HB	2.01	0.90
2:J:367:ILE:HG23	2:J:390:VAL:CG2	2.01	0.90
1:A:153:ARG:NH2	1:A:263:LEU:O	2.04	0.90
1:A:862:ALA:O	1:A:1118:CYS:HB2	1.71	0.90
1:A:902:ASN:HD22	1:C:1227:GLU:HG3	1.35	0.90
1:C:290:THR:CG2	1:C:292:PRO:CD	2.46	0.90
1:C:387:PRO:CD	1:C:1344:GLU:OE2	2.19	0.90
1:E:218:THR:HG23	1:E:220:PRO:HD2	1.52	0.90
2:H:92:GLU:HG2	2:H:128:ASN:CG	1.95	0.90
2:I:367:ILE:HG23	2:I:390:VAL:CG2	2.01	0.90
2:J:345:ILE:HD13	2:J:345:ILE:H	1.36	0.90
2:K:92:GLU:HG2	2:K:128:ASN:CG	1.95	0.90
2:K:447:ALA:HB1	2:K:452:TRP:CE3	2.05	0.90
1:B:876:ASN:CG	1:F:1227:GLU:OE2	2.15	0.90
1:C:862:ALA:O	1:C:1118:CYS:HB2	1.71	0.90
1:C:1438:ARG:HB3	2:J:376:GLY:N	1.84	0.90
1:E:266:VAL:O	1:E:279:THR:HG21	1.71	0.90
1:E:511:ILE:HG22	1:E:512:ASP:N	1.86	0.90
2:J:92:GLU:HG2	2:J:128:ASN:CG	1.95	0.90
1:A:781:PHE:CE2	2:J:57:VAL:HG21	2.05	0.90
1:C:266:VAL:O	1:C:279:THR:HG21	1.71	0.90
2:K:367:ILE:HG23	2:K:390:VAL:CG2	2.01	0.90
1:B:182:MET:HE2	1:B:217:PRO:HB2	1.54	0.90
1:B:254:PRO:HG2	1:B:255:ALA:H	1.36	0.90
1:B:704:LEU:O	1:B:706:LYS:N	2.04	0.90
1:C:464:ILE:HD11	1:C:779:TYR:CE1	2.05	0.90
1:C:783:LYS:HA	2:K:57:VAL:HG22	0.92	0.90
1:D:213:THR:HB	1:D:1008:THR:HG23	1.52	0.90
1:D:464:ILE:CD1	1:D:779:TYR:CE2	2.54	0.90
1:D:1263:HIS:HE1	1:F:899:ASN:C	1.79	0.90
4:F:2474:FMN:O4'	4:F:2474:FMN:H1'2	1.69	0.90
2:G:345:ILE:HD13	2:G:345:ILE:H	1.36	0.90
2:K:319:LEU:HD11	2:K:369:LEU:CD2	2.00	0.90
1:A:266:VAL:HG12	1:A:279:THR:HG23	1.50	0.90
1:B:155:ILE:O	1:B:159:VAL:HG23	1.71	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:182:MET:HE2	1:F:217:PRO:HB2	1.54	0.90
1:F:659:ILE:HA	1:F:663:ALA:HB3	1.54	0.90
1:F:777:GLY:HA2	2:I:52:VAL:HG12	1.50	0.90
2:H:153:ILE:HD13	2:H:220:VAL:HG13	1.53	0.90
2:H:418:THR:CG2	2:H:422:THR:HG23	2.02	0.90
2:I:367:ILE:HD12	2:I:369:LEU:HD12	1.53	0.90
2:J:418:THR:CG2	2:J:422:THR:HG23	2.02	0.90
1:A:1227:GLU:HG3	1:E:902:ASN:HD22	1.35	0.90
1:B:213:THR:HB	1:B:1008:THR:HG23	1.52	0.90
1:B:588:ARG:O	1:B:592:GLU:HG3	1.72	0.90
1:C:218:THR:HG23	1:C:220:PRO:HD2	1.52	0.90
1:E:387:PRO:CD	1:E:1344:GLU:OE2	2.19	0.90
2:H:429:THR:CG2	2:H:431:MET:HE2	2.02	0.90
2:J:153:ILE:HD13	2:J:220:VAL:HG13	1.53	0.90
1:B:1230:GLN:N	1:D:877:ARG:HG2	1.86	0.90
1:C:299:VAL:O	1:C:299:VAL:HG12	1.69	0.90
1:C:950:THR:CG2	1:C:951:GLU:N	2.35	0.90
1:E:862:ALA:O	1:E:1118:CYS:HB2	1.71	0.90
1:F:113:ASN:C	1:F:113:ASN:HD22	1.78	0.90
1:F:568:GLU:C	1:F:569:ILE:HD13	1.96	0.90
2:G:418:THR:CG2	2:G:422:THR:HG23	2.02	0.90
1:D:588:ARG:O	1:D:592:GLU:HG3	1.72	0.90
1:D:777:GLY:HA2	2:H:52:VAL:HG12	1.50	0.90
1:D:1227:GLU:CD	1:F:876:ASN:CB	2.45	0.90
1:D:1230:GLN:N	1:F:877:ARG:HG2	1.86	0.90
1:E:783:LYS:N	2:L:57:VAL:CG2	2.33	0.90
1:F:704:LEU:O	1:F:706:LYS:N	2.04	0.90
1:F:825:LEU:CD1	1:F:1186:ARG:NH1	2.17	0.90
1:F:950:THR:CG2	1:F:951:GLU:N	2.32	0.90
2:G:257:ASN:OD1	2:G:394:LEU:HA	1.72	0.90
2:H:77:LEU:HD23	2:H:127:ILE:HA	1.51	0.90
2:H:257:ASN:OD1	2:H:394:LEU:HA	1.72	0.90
2:I:186:LEU:HD23	2:I:195:LEU:CD2	1.99	0.90
1:A:387:PRO:CD	1:A:1344:GLU:OE2	2.19	0.89
1:D:1227:GLU:OE2	1:F:876:ASN:CG	2.15	0.89
1:F:139:VAL:CG1	1:F:140:SER:N	2.35	0.89
2:G:167:ARG:HG2	2:G:210:ALA:CB	2.00	0.89
2:I:61:VAL:CG2	2:I:87:THR:HB	2.01	0.89
2:I:418:THR:CG2	2:I:422:THR:HG23	2.02	0.89
2:J:449:LEU:HD11	2:J:451:VAL:HG12	1.49	0.89
2:K:418:THR:CG2	2:K:422:THR:HG23	2.02	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:142:GLU:CD	1:A:142:GLU:H	1.80	0.89
1:A:950:THR:CG2	1:A:951:GLU:N	2.35	0.89
1:B:918:THR:HG22	1:B:921:TYR:H	1.38	0.89
1:C:52:GLN:HE22	1:C:71:LEU:H	1.15	0.89
1:C:236:THR:HG21	1:C:328:ASP:N	1.86	0.89
1:C:1438:ARG:HB2	2:J:376:GLY:CA	1.97	0.89
1:D:568:GLU:C	1:D:569:ILE:HD13	1.96	0.89
1:D:659:ILE:HA	1:D:663:ALA:HB3	1.54	0.89
1:F:155:ILE:O	1:F:159:VAL:HG23	1.71	0.89
1:F:588:ARG:O	1:F:592:GLU:HG3	1.72	0.89
2:G:61:VAL:CG2	2:G:87:THR:HB	2.01	0.89
2:G:92:GLU:HG2	2:G:128:ASN:CG	1.95	0.89
2:G:367:ILE:HG23	2:G:390:VAL:CG2	2.01	0.89
2:J:175:VAL:HG11	2:J:214:TYR:CD2	2.08	0.89
2:K:167:ARG:HG2	2:K:210:ALA:CB	2.00	0.89
2:K:366:ARG:HE	2:K:391:GLN:HG2	1.37	0.89
2:L:61:VAL:CG2	2:L:87:THR:HB	2.01	0.89
2:L:418:THR:CG2	2:L:422:THR:HG23	2.02	0.89
1:B:139:VAL:HG11	1:B:143:GLN:CB	2.02	0.89
1:D:499:PHE:CE1	1:D:742:MET:HE1	2.07	0.89
1:D:513:SER:HB3	1:D:520:MET:HE2	1.54	0.89
1:D:526:LEU:HD12	1:D:526:LEU:N	1.88	0.89
1:E:236:THR:HG21	1:E:328:ASP:N	1.86	0.89
1:E:783:LYS:HA	2:L:57:VAL:HG22	0.91	0.89
1:F:437:GLY:HA2	1:F:690:GLU:OE2	1.73	0.89
2:G:322:ARG:HG3	2:G:323:ASP:H	1.37	0.89
2:G:429:THR:CG2	2:G:431:MET:HE2	2.02	0.89
2:I:430:LYS:CD	2:I:460:ALA:HB2	2.01	0.89
2:L:345:ILE:H	2:L:345:ILE:HD13	1.36	0.89
1:B:828:LEU:HD22	1:B:1172:SER:HA	1.50	0.89
1:C:403:ASP:OD1	1:C:407:LYS:NZ	2.05	0.89
1:C:777:GLY:HA2	2:K:52:VAL:HG12	1.53	0.89
1:C:777:GLY:CA	2:K:52:VAL:HG12	2.02	0.89
1:D:155:ILE:O	1:D:159:VAL:HG23	1.71	0.89
1:E:52:GLN:NE2	1:E:71:LEU:H	1.70	0.89
1:E:153:ARG:NH2	1:E:263:LEU:O	2.04	0.89
1:E:960:THR:HG22	1:E:963:VAL:CG2	2.03	0.89
1:F:515:ARG:HH22	1:F:966:ILE:HB	1.37	0.89
1:A:236:THR:HG21	1:A:328:ASP:N	1.86	0.89
1:B:499:PHE:CE1	1:B:742:MET:HE1	2.07	0.89
1:B:877:ARG:HG2	1:F:1230:GLN:N	1.86	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:570:ASP:OD1	1:D:572:THR:HB	1.73	0.89
1:F:452:GLN:NE2	1:F:764:THR:CG2	2.33	0.89
1:F:1366:GLU:HG2	1:F:1367:TYR:CD2	2.05	0.89
2:G:366:ARG:HE	2:G:391:GLN:HG2	1.37	0.89
2:G:367:ILE:HD12	2:G:369:LEU:HD12	1.53	0.89
2:H:366:ARG:HE	2:H:391:GLN:HG2	1.37	0.89
2:I:175:VAL:HG11	2:I:214:TYR:CD2	2.08	0.89
2:J:246:ARG:HD3	2:J:399:LEU:HB3	1.55	0.89
2:K:367:ILE:HD12	2:K:369:LEU:HD12	1.53	0.89
2:L:246:ARG:HD3	2:L:399:LEU:HB3	1.55	0.89
1:B:501:GLN:HE21	1:B:653:HIS:HD2	0.90	0.89
1:B:900:GLY:N	1:F:1263:HIS:CE1	2.20	0.89
1:C:153:ARG:NH2	1:C:263:LEU:O	2.04	0.89
1:D:254:PRO:HG2	1:D:255:ALA:H	1.36	0.89
1:D:437:GLY:HA2	1:D:690:GLU:OE2	1.73	0.89
1:D:1170:GLN:HG2	1:D:1170:GLN:O	1.68	0.89
1:E:290:THR:CG2	1:E:292:PRO:CD	2.46	0.89
1:E:403:ASP:OD1	1:E:407:LYS:NZ	2.05	0.89
1:E:777:GLY:CA	2:L:52:VAL:HG12	2.02	0.89
2:I:345:ILE:H	2:I:345:ILE:HD13	1.36	0.89
2:J:257:ASN:OD1	2:J:394:LEU:HA	1.72	0.89
4:B:2474:FMN:H1'2	4:B:2474:FMN:O4'	1.69	0.89
1:C:505:GLN:HE22	1:C:1001:VAL:H	0.93	0.89
1:C:562:MET:HE3	1:C:566:ALA:HB2	1.55	0.89
1:F:513:SER:HB3	1:F:520:MET:HE2	1.54	0.89
2:L:153:ILE:HD13	2:L:220:VAL:HG13	1.53	0.89
1:A:52:GLN:NE2	1:A:71:LEU:H	1.70	0.89
1:B:950:THR:HG22	1:B:952:MET:N	1.88	0.89
1:E:710:LYS:HG2	1:E:939:GLY:HA3	1.55	0.89
2:I:110:ILE:HG13	2:I:117:ALA:HA	1.55	0.89
2:I:322:ARG:HG3	2:I:323:ASP:H	1.37	0.89
2:J:186:LEU:HD23	2:J:195:LEU:CD2	1.99	0.89
2:L:110:ILE:HG13	2:L:117:ALA:HA	1.55	0.89
1:A:113:ASN:C	1:A:113:ASN:ND2	2.26	0.89
1:A:235:ASN:HD22	1:A:235:ASN:C	1.80	0.89
1:B:899:ASN:C	1:F:1263:HIS:HE1	1.79	0.89
1:C:710:LYS:HG2	1:C:939:GLY:HA3	1.55	0.89
1:C:1438:ARG:HB2	2:J:376:GLY:H	1.33	0.89
1:D:652:THR:HG21	1:D:703:GLY:CA	2.03	0.89
1:E:582:LEU:H	1:E:755:GLN:NE2	1.71	0.89
2:G:110:ILE:HG13	2:G:117:ALA:HA	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:246:ARG:HD3	2:G:399:LEU:HB3	1.55	0.89
2:I:246:ARG:HD3	2:I:399:LEU:HB3	1.55	0.89
2:J:77:LEU:HD23	2:J:127:ILE:HA	1.51	0.89
2:K:257:ASN:OD1	2:K:394:LEU:HA	1.72	0.89
1:A:838:VAL:HG13	1:A:839:PRO:CD	2.03	0.89
1:B:568:GLU:C	1:B:569:ILE:HD13	1.96	0.89
1:C:52:GLN:NE2	1:C:71:LEU:H	1.70	0.89
1:C:960:THR:HG22	1:C:963:VAL:CG2	2.03	0.89
1:E:353:MET:CE	1:E:366:GLY:O	2.22	0.89
1:F:918:THR:HG22	1:F:921:TYR:H	1.38	0.89
2:H:175:VAL:HG11	2:H:214:TYR:CD2	2.08	0.89
2:J:146:LEU:HD23	2:J:147:GLY:H	1.38	0.89
2:J:366:ARG:HE	2:J:391:GLN:HG2	1.37	0.89
2:J:430:LYS:CD	2:J:460:ALA:HB2	2.01	0.89
2:K:429:THR:CG2	2:K:431:MET:HE2	2.02	0.89
1:A:1376:LEU:N	1:A:1376:LEU:CD2	2.33	0.88
1:B:876:ASN:CB	1:F:1227:GLU:CD	2.45	0.88
1:C:353:MET:CE	1:C:366:GLY:O	2.21	0.88
1:D:218:THR:HG23	1:D:220:PRO:HD2	1.56	0.88
1:D:731:SER:HA	1:D:748:GLY:H	1.37	0.88
1:E:777:GLY:HA2	2:L:52:VAL:HG12	1.53	0.88
1:F:499:PHE:CE1	1:F:742:MET:HE1	2.07	0.88
1:F:783:LYS:HA	2:I:57:VAL:HG22	0.90	0.88
2:G:175:VAL:HG11	2:G:214:TYR:CD2	2.08	0.88
2:H:148:LEU:HD12	2:H:149:SER:N	1.88	0.88
2:K:246:ARG:HD3	2:K:399:LEU:HB3	1.55	0.88
2:K:367:ILE:HD12	2:K:369:LEU:CD1	2.04	0.88
2:L:429:THR:CG2	2:L:431:MET:HE2	2.02	0.88
1:A:825:LEU:HD13	1:A:1186:ARG:HH11	1.38	0.88
1:B:652:THR:HG21	1:B:703:GLY:CA	2.03	0.88
1:D:783:LYS:HA	2:H:57:VAL:HG22	0.90	0.88
2:H:367:ILE:HD12	2:H:369:LEU:CD1	2.04	0.88
2:J:110:ILE:HG13	2:J:117:ALA:HA	1.55	0.88
2:J:429:THR:CG2	2:J:431:MET:HE2	2.02	0.88
2:K:148:LEU:HD12	2:K:149:SER:N	1.88	0.88
2:L:175:VAL:HG11	2:L:214:TYR:CD2	2.08	0.88
1:B:838:VAL:HG13	1:B:839:PRO:HD2	1.54	0.88
1:C:511:ILE:HG22	1:C:512:ASP:N	1.86	0.88
2:H:110:ILE:HG13	2:H:117:ALA:HA	1.55	0.88
2:K:153:ILE:HD13	2:K:220:VAL:HG13	1.53	0.88
1:A:353:MET:CE	1:A:366:GLY:O	2.21	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1311:THR:HG23	1:A:1312:SER:N	1.89	0.88
1:B:526:LEU:HD12	1:B:526:LEU:N	1.88	0.88
1:B:783:LYS:HA	2:G:57:VAL:HG22	0.90	0.88
1:B:876:ASN:CB	1:F:1227:GLU:OE1	2.22	0.88
1:B:1227:GLU:OE2	1:D:876:ASN:CG	2.15	0.88
1:D:734:LEU:CD1	1:D:738:HIS:CD2	2.57	0.88
2:G:148:LEU:HD12	2:G:149:SER:N	1.88	0.88
2:H:246:ARG:HD3	2:H:399:LEU:HB3	1.55	0.88
2:J:367:ILE:HD12	2:J:369:LEU:HD12	1.53	0.88
2:J:432:THR:HG22	2:J:434:MET:H	1.37	0.88
2:K:77:LEU:HD23	2:K:127:ILE:HA	1.51	0.88
2:K:110:ILE:HG13	2:K:117:ALA:HA	1.55	0.88
2:K:322:ARG:HG3	2:K:323:ASP:H	1.37	0.88
1:A:403:ASP:OD1	1:A:407:LYS:NZ	2.05	0.88
1:B:437:GLY:HA2	1:B:690:GLU:OE2	1.73	0.88
1:B:513:SER:HB3	1:B:520:MET:HE2	1.54	0.88
1:B:731:SER:HA	1:B:748:GLY:H	1.37	0.88
1:B:1227:GLU:CD	1:D:876:ASN:CB	2.45	0.88
1:D:782:ARG:HB3	2:H:56:GLN:HE21	0.76	0.88
1:E:582:LEU:H	1:E:755:GLN:HE22	1.18	0.88
1:E:782:ARG:HD3	2:L:53:PRO:HD3	1.56	0.88
1:F:526:LEU:N	1:F:526:LEU:HD12	1.88	0.88
2:G:148:LEU:CG	2:G:234:VAL:HG23	2.03	0.88
1:A:960:THR:HG22	1:A:963:VAL:CG2	2.03	0.88
1:B:430:VAL:CG1	1:B:554:GLU:HB3	2.02	0.88
1:C:430:VAL:HG13	1:C:554:GLU:HB2	1.56	0.88
1:D:139:VAL:HG11	1:D:143:GLN:CB	2.02	0.88
2:G:367:ILE:HD12	2:G:369:LEU:CD1	2.04	0.88
2:H:146:LEU:HD23	2:H:147:GLY:H	1.38	0.88
2:H:367:ILE:HD12	2:H:369:LEU:HD12	1.53	0.88
2:I:257:ASN:OD1	2:I:394:LEU:HA	1.72	0.88
2:I:366:ARG:HE	2:I:391:GLN:HG2	1.37	0.88
2:K:175:VAL:HG11	2:K:214:TYR:CD2	2.08	0.88
2:K:430:LYS:HE2	2:K:440:ALA:CB	2.04	0.88
1:E:235:ASN:HD22	1:E:235:ASN:C	1.80	0.88
1:F:253:HIS:ND1	1:F:254:PRO:CD	2.37	0.88
2:L:257:ASN:OD1	2:L:394:LEU:HA	1.72	0.88
1:A:511:ILE:HG22	1:A:512:ASP:N	1.86	0.88
1:A:582:LEU:H	1:A:755:GLN:NE2	1.71	0.88
1:A:1221:PRO:CG	1:A:1229:MET:HE1	2.04	0.88
1:C:59:VAL:CG2	1:C:105:TYR:HD2	1.82	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:ARG:HD3	2:K:53:PRO:HD3	1.56	0.88
1:C:838:VAL:HG13	1:C:839:PRO:CD	2.03	0.88
1:E:838:VAL:HG13	1:E:839:PRO:CD	2.03	0.88
1:E:950:THR:CG2	1:E:951:GLU:N	2.35	0.88
1:F:139:VAL:HG11	1:F:143:GLN:CB	2.02	0.88
2:G:430:LYS:HE2	2:G:440:ALA:CB	2.04	0.88
2:I:148:LEU:HD12	2:I:149:SER:N	1.88	0.88
2:I:429:THR:CG2	2:I:431:MET:HE2	2.02	0.88
2:I:430:LYS:HE2	2:I:440:ALA:CB	2.04	0.88
2:L:148:LEU:CG	2:L:234:VAL:HG23	2.03	0.88
2:L:367:ILE:HD12	2:L:369:LEU:HD12	1.53	0.88
2:L:430:LYS:HE2	2:L:440:ALA:CB	2.03	0.88
1:A:430:VAL:HG13	1:A:554:GLU:HB2	1.56	0.88
1:A:584:ASP:OD1	1:A:584:ASP:N	2.04	0.88
1:B:417:ASP:O	1:B:418:LYS:C	2.13	0.88
1:B:734:LEU:CD1	1:B:738:HIS:CD2	2.57	0.88
1:C:227:MET:HE2	1:C:282:GLU:HG2	1.56	0.88
1:D:253:HIS:ND1	1:D:254:PRO:CD	2.37	0.88
1:E:562:MET:HE3	1:E:566:ALA:HB2	1.55	0.88
1:F:783:LYS:CA	2:I:57:VAL:HG23	1.96	0.88
1:F:1115:VAL:O	1:F:1115:VAL:CG1	2.22	0.88
2:G:153:ILE:HD13	2:G:220:VAL:HG13	1.53	0.88
2:H:430:LYS:HE2	2:H:440:ALA:CB	2.03	0.88
2:I:153:ILE:HD13	2:I:220:VAL:HG13	1.53	0.88
2:L:366:ARG:HE	2:L:391:GLN:HG2	1.37	0.88
1:A:1401:LEU:O	1:A:1401:LEU:HD12	1.74	0.88
1:B:218:THR:HG23	1:B:220:PRO:HD2	1.56	0.88
1:D:139:VAL:CG1	1:D:140:SER:H	1.87	0.88
1:D:426:LEU:CD2	1:D:543:LEU:HB3	2.04	0.88
1:E:825:LEU:HD13	1:E:1186:ARG:HH11	1.38	0.88
2:J:166:LEU:HD23	2:J:461:ALA:HB1	1.56	0.88
2:K:292:VAL:CG2	2:K:394:LEU:HD13	2.04	0.88
2:L:166:LEU:HD23	2:L:461:ALA:HB1	1.56	0.88
1:B:253:HIS:ND1	1:B:254:PRO:CD	2.37	0.87
1:B:777:GLY:CA	2:G:52:VAL:HG12	1.99	0.87
1:C:582:LEU:H	1:C:755:GLN:NE2	1.71	0.87
1:D:501:GLN:NE2	1:D:653:HIS:HD2	1.72	0.87
1:F:838:VAL:HG13	1:F:839:PRO:HD2	1.54	0.87
2:J:148:LEU:CG	2:J:234:VAL:HG23	2.03	0.87
2:J:430:LYS:HE2	2:J:440:ALA:CB	2.04	0.87
1:A:710:LYS:HG2	1:A:939:GLY:HA3	1.55	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:426:LEU:CD2	1:B:543:LEU:HB3	2.04	0.87
1:B:501:GLN:NE2	1:B:653:HIS:HD2	1.73	0.87
1:B:515:ARG:HH22	1:B:966:ILE:HB	1.37	0.87
1:F:652:THR:HG21	1:F:703:GLY:CA	2.03	0.87
1:F:875:MET:HE1	1:F:1139:PHE:CE2	2.10	0.87
1:F:950:THR:HG22	1:F:952:MET:N	1.88	0.87
2:L:322:ARG:HG3	2:L:323:ASP:H	1.37	0.87
1:A:777:GLY:CA	2:J:52:VAL:HG12	2.02	0.87
1:B:1263:HIS:HE1	1:D:899:ASN:C	1.79	0.87
1:C:1221:PRO:CG	1:C:1229:MET:HE1	2.04	0.87
2:G:146:LEU:HD23	2:G:147:GLY:H	1.38	0.87
2:G:166:LEU:HD23	2:G:461:ALA:HB1	1.56	0.87
2:H:166:LEU:HD23	2:H:461:ALA:HB1	1.56	0.87
2:J:322:ARG:HG3	2:J:323:ASP:H	1.37	0.87
2:K:186:LEU:CD2	2:K:195:LEU:HD21	2.04	0.87
2:L:148:LEU:HD12	2:L:149:SER:N	1.88	0.87
1:A:900:GLY:N	1:C:1263:HIS:HE1	1.65	0.87
1:B:1227:GLU:OE1	1:D:876:ASN:CB	2.22	0.87
1:C:142:GLU:CD	1:C:142:GLU:H	1.80	0.87
1:F:734:LEU:CD1	1:F:738:HIS:CD2	2.56	0.87
1:F:734:LEU:HD11	1:F:738:HIS:CD2	2.10	0.87
2:H:148:LEU:CG	2:H:234:VAL:HG23	2.03	0.87
2:J:367:ILE:HD12	2:J:369:LEU:CD1	2.04	0.87
1:B:746:ILE:C	1:B:747:SER:O	2.16	0.87
1:C:6:ILE:HG12	1:C:364:ILE:HG23	1.57	0.87
1:C:877:ARG:CG	1:E:1229:MET:HA	2.05	0.87
1:D:918:THR:HG22	1:D:921:TYR:H	1.38	0.87
1:E:1438:ARG:HB2	2:K:376:GLY:H	1.33	0.87
2:K:281:GLU:HG3	2:K:284:SER:H	1.39	0.87
2:K:415:LEU:HG	2:K:432:THR:CG2	2.05	0.87
1:B:570:ASP:OD1	1:B:572:THR:HB	1.73	0.87
1:C:52:GLN:HE22	1:C:71:LEU:N	1.73	0.87
1:C:146:LEU:HD12	1:C:146:LEU:O	1.75	0.87
1:D:253:HIS:H	1:D:260:MET:HE1	1.39	0.87
1:D:505:GLN:HE22	1:D:1000:LEU:HB3	1.36	0.87
1:D:950:THR:HG22	1:D:952:MET:N	1.88	0.87
1:E:6:ILE:HG12	1:E:364:ILE:HG23	1.57	0.87
1:E:142:GLU:CD	1:E:142:GLU:H	1.80	0.87
1:E:1391:MET:HE2	1:E:1458:VAL:HG22	0.88	0.87
1:F:30:HIS:HD2	1:F:31:ARG:HG3	1.38	0.87
1:F:139:VAL:CG1	1:F:140:SER:H	1.87	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:322:ARG:HG3	2:H:323:ASP:H	1.37	0.87
1:A:146:LEU:O	1:A:146:LEU:HD12	1.75	0.87
1:A:734:LEU:CD1	1:A:738:HIS:CD2	2.58	0.87
1:A:1438:ARG:CB	2:L:376:GLY:CA	2.31	0.87
1:B:659:ILE:HA	1:B:663:ALA:HB3	1.54	0.87
1:D:430:VAL:CG1	1:D:554:GLU:HB3	2.02	0.87
1:D:875:MET:HE1	1:D:1139:PHE:CE2	2.10	0.87
2:J:148:LEU:HD12	2:J:149:SER:N	1.88	0.87
2:J:415:LEU:HG	2:J:432:THR:CG2	2.05	0.87
1:B:505:GLN:HE22	1:B:1000:LEU:HB3	1.36	0.87
1:D:501:GLN:HE21	1:D:653:HIS:HD2	0.90	0.87
1:D:1227:GLU:OE1	1:F:876:ASN:CB	2.22	0.87
1:E:1221:PRO:CG	1:E:1229:MET:HE1	2.04	0.87
2:I:148:LEU:CG	2:I:234:VAL:HG23	2.03	0.87
2:I:186:LEU:HD11	2:I:200:VAL:HB	1.57	0.87
2:I:432:THR:HG22	2:I:434:MET:H	1.37	0.87
2:K:148:LEU:CG	2:K:234:VAL:HG23	2.03	0.87
2:L:432:THR:HG22	2:L:434:MET:H	1.37	0.87
1:A:392:ALA:O	1:A:400:LEU:HD12	1.74	0.87
1:B:139:VAL:CG1	1:B:140:SER:H	1.87	0.87
1:B:734:LEU:HD11	1:B:738:HIS:CD2	2.10	0.87
1:C:1391:MET:HE2	1:C:1458:VAL:HG22	0.88	0.87
1:D:218:THR:HG21	1:D:221:LEU:HG	1.56	0.87
1:D:377:THR:HG22	1:D:378:GLN:HG3	1.56	0.87
1:E:1401:LEU:O	1:E:1401:LEU:HD12	1.74	0.87
1:F:731:SER:HA	1:F:748:GLY:H	1.37	0.87
1:F:1349:ARG:NH1	1:F:1349:ARG:CG	2.34	0.87
2:G:80:ALA:HB3	2:G:127:ILE:CD1	2.05	0.87
2:G:186:LEU:CD2	2:G:195:LEU:HD21	2.04	0.87
2:G:197:LYS:HE2	2:G:275:ASP:H	1.40	0.87
2:H:153:ILE:CD1	2:H:220:VAL:HG13	2.04	0.87
2:I:166:LEU:HD23	2:I:461:ALA:HB1	1.56	0.87
2:K:153:ILE:CD1	2:K:220:VAL:HG13	2.04	0.87
2:L:367:ILE:HD12	2:L:369:LEU:CD1	2.04	0.87
1:B:782:ARG:HB3	2:G:56:GLN:HE21	0.76	0.86
1:D:1047:MET:CG	1:D:1186:ARG:NH2	2.38	0.86
1:E:430:VAL:HG13	1:E:554:GLU:HB2	1.56	0.86
1:E:828:LEU:HD22	1:E:1172:SER:HB2	1.57	0.86
1:F:218:THR:HG23	1:F:220:PRO:HD2	1.56	0.86
1:F:377:THR:HG22	1:F:378:GLN:HG3	1.56	0.86
1:F:570:ASP:OD1	1:F:572:THR:HB	1.73	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:281:GLU:HG3	2:H:284:SER:H	1.39	0.86
2:K:388:PHE:CD2	2:K:390:VAL:HG13	2.10	0.86
2:K:432:THR:HG22	2:K:434:MET:H	1.37	0.86
2:L:80:ALA:HB3	2:L:127:ILE:CD1	2.05	0.86
1:B:825:LEU:CD1	1:B:1186:ARG:NH1	2.17	0.86
1:B:875:MET:HE1	1:B:1139:PHE:CE2	2.10	0.86
1:C:875:MET:CE	1:C:1139:PHE:HE2	1.73	0.86
1:C:1401:LEU:HD12	1:C:1401:LEU:O	1.74	0.86
1:F:426:LEU:CD2	1:F:543:LEU:HB3	2.04	0.86
1:F:501:GLN:NE2	1:F:653:HIS:HD2	1.73	0.86
2:H:292:VAL:CG2	2:H:394:LEU:HD13	2.04	0.86
2:L:146:LEU:HD23	2:L:147:GLY:H	1.38	0.86
1:A:290:THR:HG23	1:A:292:PRO:HD2	1.56	0.86
1:A:1229:MET:HA	1:E:877:ARG:CG	2.05	0.86
1:C:843:VAL:HG12	1:C:844:GLU:N	1.89	0.86
1:E:1311:THR:HG23	1:E:1312:SER:N	1.89	0.86
2:J:186:LEU:HD11	2:J:200:VAL:HB	1.57	0.86
2:L:153:ILE:CD1	2:L:220:VAL:HG13	2.04	0.86
2:L:181:ARG:C	2:L:182:MET:HE3	2.01	0.86
1:A:1391:MET:HE2	1:A:1458:VAL:HG22	0.88	0.86
1:C:235:ASN:HD22	1:C:235:ASN:C	1.80	0.86
1:D:746:ILE:HG23	1:D:1182:ASP:CB	2.05	0.86
1:D:1263:HIS:NE2	1:F:900:GLY:CA	2.17	0.86
1:F:1047:MET:CG	1:F:1186:ARG:NH2	2.38	0.86
2:G:153:ILE:CD1	2:G:220:VAL:HG13	2.04	0.86
2:H:415:LEU:HG	2:H:432:THR:CG2	2.05	0.86
2:J:153:ILE:CD1	2:J:220:VAL:HG13	2.04	0.86
2:K:166:LEU:HD23	2:K:461:ALA:HB1	1.56	0.86
2:L:292:VAL:CG2	2:L:394:LEU:HD13	2.04	0.86
1:C:113:ASN:C	1:C:113:ASN:ND2	2.26	0.86
1:C:1221:PRO:HG2	1:C:1229:MET:HE1	1.57	0.86
1:F:505:GLN:HE22	1:F:1000:LEU:HB3	1.36	0.86
2:G:388:PHE:CD2	2:G:390:VAL:HG13	2.10	0.86
2:H:432:THR:HG22	2:H:434:MET:H	1.37	0.86
2:I:146:LEU:HD23	2:I:147:GLY:H	1.38	0.86
2:L:186:LEU:CD2	2:L:195:LEU:HD21	2.04	0.86
1:C:392:ALA:O	1:C:400:LEU:HD12	1.74	0.86
1:C:734:LEU:CD1	1:C:738:HIS:CD2	2.58	0.86
1:E:146:LEU:O	1:E:146:LEU:HD12	1.75	0.86
2:I:415:LEU:HG	2:I:432:THR:CG2	2.05	0.86
2:K:146:LEU:HD23	2:K:147:GLY:H	1.38	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:197:LYS:HE2	2:L:275:ASP:H	1.40	0.86
2:L:388:PHE:CD2	2:L:390:VAL:HG13	2.10	0.86
2:L:415:LEU:HG	2:L:432:THR:CG2	2.05	0.86
1:A:353:MET:HE2	1:A:366:GLY:O	1.76	0.86
1:D:734:LEU:HD11	1:D:738:HIS:CD2	2.10	0.86
1:E:392:ALA:O	1:E:400:LEU:HD12	1.74	0.86
2:H:80:ALA:HB3	2:H:127:ILE:CG1	2.05	0.86
2:H:181:ARG:C	2:H:182:MET:HE3	2.01	0.86
2:H:388:PHE:CD2	2:H:390:VAL:HG13	2.10	0.86
2:I:153:ILE:CD1	2:I:220:VAL:HG13	2.04	0.86
2:I:292:VAL:CG2	2:I:394:LEU:HD13	2.04	0.86
2:I:371:VAL:HG23	2:I:383:ILE:CG2	2.06	0.86
2:L:371:VAL:HG23	2:L:383:ILE:CG2	2.06	0.86
1:A:1438:ARG:HB2	2:L:376:GLY:CA	1.97	0.86
1:B:780:ARG:CG	2:G:51:GLY:O	2.24	0.86
1:C:290:THR:HG23	1:C:292:PRO:HD2	1.56	0.86
2:G:110:ILE:HD11	2:G:118:VAL:N	1.91	0.86
2:G:292:VAL:CG2	2:G:394:LEU:HD13	2.04	0.86
2:G:432:THR:HG22	2:G:434:MET:H	1.37	0.86
2:I:80:ALA:HB3	2:I:127:ILE:CG1	2.05	0.86
2:J:292:VAL:CG2	2:J:394:LEU:HD13	2.04	0.86
1:A:562:MET:HE3	1:A:566:ALA:HB2	1.55	0.86
1:B:218:THR:HG21	1:B:221:LEU:HG	1.56	0.86
1:B:901:ASP:OD1	1:F:1228:LYS:HB3	1.76	0.86
1:C:1115:VAL:O	1:C:1115:VAL:CG1	2.24	0.86
1:C:1338:ALA:O	1:C:1340:GLY:N	2.08	0.86
1:E:227:MET:HE2	1:E:282:GLU:HG2	1.56	0.86
1:F:253:HIS:CE1	1:F:254:PRO:HD2	2.11	0.86
1:F:782:ARG:HB3	2:I:56:GLN:HE21	0.76	0.86
2:G:415:LEU:HG	2:G:432:THR:CG2	2.05	0.86
2:I:31:ILE:HD12	2:I:32:TYR:N	1.91	0.86
2:I:80:ALA:HB3	2:I:127:ILE:CD1	2.05	0.86
2:K:80:ALA:HB3	2:K:127:ILE:CG1	2.05	0.86
2:L:80:ALA:HB3	2:L:127:ILE:CG1	2.05	0.86
2:L:186:LEU:HD11	2:L:200:VAL:HB	1.57	0.86
1:A:409:HIS:O	1:A:412:THR:HB	1.76	0.86
1:C:482:ASP:OD1	1:C:788:HIS:CD2	2.29	0.86
1:D:417:ASP:O	1:D:418:LYS:C	2.13	0.86
1:D:515:ARG:HH22	1:D:966:ILE:HB	1.37	0.86
1:D:780:ARG:CG	2:H:51:GLY:O	2.24	0.86
1:E:59:VAL:CG2	1:E:105:TYR:HD2	1.82	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1438:ARG:HB2	2:K:376:GLY:CA	1.97	0.86
2:G:371:VAL:HG23	2:G:383:ILE:CG2	2.06	0.86
2:H:303:ASP:O	2:H:307:THR:HG22	1.76	0.86
2:I:181:ARG:C	2:I:182:MET:HE3	2.01	0.86
2:J:181:ARG:C	2:J:182:MET:HE3	2.01	0.86
2:J:371:VAL:HG23	2:J:383:ILE:CG2	2.06	0.86
2:K:110:ILE:HD11	2:K:118:VAL:N	1.91	0.86
1:A:513:SER:HB3	1:A:520:MET:CE	2.06	0.85
1:A:782:ARG:HD3	2:J:53:PRO:CD	2.05	0.85
1:A:1338:ALA:O	1:A:1340:GLY:N	2.08	0.85
1:B:377:THR:HG22	1:B:378:GLN:HG3	1.56	0.85
1:B:1047:MET:CG	1:B:1186:ARG:NH2	2.38	0.85
1:D:1128:PHE:CZ	1:D:1130:GLY:HA3	2.11	0.85
2:K:430:LYS:HE2	2:K:440:ALA:HB2	1.58	0.85
2:L:31:ILE:HD12	2:L:32:TYR:N	1.91	0.85
2:L:250:ALA:HB1	2:L:251:PRO:HD2	1.57	0.85
1:A:482:ASP:OD1	1:A:788:HIS:HD2	1.59	0.85
1:A:537:GLU:HG3	1:A:538:THR:N	1.92	0.85
1:A:843:VAL:HG12	1:A:844:GLU:N	1.89	0.85
1:A:1115:VAL:O	1:A:1115:VAL:CG1	2.24	0.85
1:C:724:ASN:ND2	1:C:724:ASN:H	1.73	0.85
1:C:825:LEU:HD13	1:C:1186:ARG:HH11	1.38	0.85
1:C:1311:THR:HG23	1:C:1312:SER:N	1.89	0.85
1:D:1228:LYS:HB3	1:F:901:ASP:OD1	1.76	0.85
1:E:513:SER:HB3	1:E:520:MET:CE	2.06	0.85
2:I:250:ALA:HB1	2:I:251:PRO:HD2	1.57	0.85
2:K:371:VAL:HG23	2:K:383:ILE:CG2	2.06	0.85
1:B:899:ASN:O	1:F:1263:HIS:CE1	2.30	0.85
1:D:746:ILE:C	1:D:747:SER:O	2.16	0.85
1:E:409:HIS:O	1:E:412:THR:HB	1.76	0.85
2:G:281:GLU:HG3	2:G:284:SER:H	1.39	0.85
2:H:80:ALA:HB3	2:H:127:ILE:CD1	2.05	0.85
2:H:371:VAL:HG23	2:H:383:ILE:CG2	2.06	0.85
2:I:367:ILE:HD12	2:I:369:LEU:CD1	2.04	0.85
2:J:166:LEU:HA	2:J:169:LYS:HE2	1.58	0.85
2:K:80:ALA:HB3	2:K:127:ILE:CD1	2.05	0.85
1:A:604:VAL:HG23	1:A:640:THR:HG21	1.58	0.85
1:C:537:GLU:HG3	1:C:538:THR:N	1.92	0.85
1:C:782:ARG:HD3	2:K:53:PRO:CD	2.05	0.85
1:E:52:GLN:HE22	1:E:71:LEU:N	1.73	0.85
1:E:253:HIS:CG	1:E:254:PRO:CD	2.52	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:430:LYS:HE2	2:G:440:ALA:HB2	1.58	0.85
2:K:250:ALA:HB1	2:K:251:PRO:HD2	1.57	0.85
1:A:405:GLU:H	1:A:405:GLU:CD	1.81	0.85
1:A:724:ASN:ND2	1:A:724:ASN:H	1.73	0.85
1:C:405:GLU:H	1:C:405:GLU:CD	1.81	0.85
1:C:513:SER:HB3	1:C:520:MET:CE	2.06	0.85
1:C:724:ASN:H	1:C:724:ASN:HD22	1.25	0.85
1:D:1229:MET:CA	1:F:877:ARG:HG3	2.03	0.85
1:E:405:GLU:H	1:E:405:GLU:CD	1.81	0.85
1:E:604:VAL:HG23	1:E:640:THR:HG21	1.58	0.85
1:E:843:VAL:HG12	1:E:844:GLU:N	1.89	0.85
2:I:166:LEU:HA	2:I:169:LYS:HE2	1.58	0.85
2:K:303:ASP:O	2:K:307:THR:HG22	1.76	0.85
2:L:166:LEU:HA	2:L:169:LYS:HE2	1.58	0.85
1:A:731:SER:HA	1:A:748:GLY:H	1.42	0.85
1:B:253:HIS:H	1:B:260:MET:HE1	1.39	0.85
1:C:479:MET:HG3	1:C:1104:MET:CE	2.05	0.85
1:C:900:GLY:HA2	1:E:1263:HIS:NE2	1.91	0.85
1:E:113:ASN:ND2	1:E:113:ASN:C	2.26	0.85
1:E:482:ASP:OD1	1:E:788:HIS:HD2	1.59	0.85
1:E:734:LEU:CD1	1:E:738:HIS:CD2	2.58	0.85
2:J:80:ALA:HB3	2:J:127:ILE:CG1	2.05	0.85
2:J:281:GLU:HG3	2:J:284:SER:H	1.39	0.85
2:J:303:ASP:O	2:J:307:THR:HG22	1.76	0.85
2:L:110:ILE:HD11	2:L:118:VAL:N	1.91	0.85
1:A:479:MET:HG3	1:A:1104:MET:CE	2.05	0.85
1:A:875:MET:HE1	1:A:1139:PHE:CD2	2.12	0.85
1:B:1263:HIS:CE1	1:D:899:ASN:O	2.30	0.85
1:C:604:VAL:HG23	1:C:640:THR:HG21	1.58	0.85
1:C:704:LEU:O	1:C:706:LYS:N	2.10	0.85
1:C:1438:ARG:HD2	2:J:377:ARG:N	1.90	0.85
1:E:479:MET:HG3	1:E:1104:MET:CE	2.05	0.85
1:E:734:LEU:HD11	1:E:738:HIS:CD2	2.12	0.85
2:G:181:ARG:C	2:G:182:MET:HE3	2.01	0.85
2:H:132:TRP:CD1	2:H:202:ARG:HD2	2.12	0.85
2:I:388:PHE:CD2	2:I:390:VAL:HG13	2.10	0.85
2:J:31:ILE:HD12	2:J:32:TYR:N	1.91	0.85
2:J:110:ILE:HD11	2:J:118:VAL:N	1.91	0.85
2:J:250:ALA:HB1	2:J:251:PRO:HD2	1.57	0.85
1:A:52:GLN:HE22	1:A:71:LEU:N	1.73	0.85
1:A:482:ASP:OD1	1:A:788:HIS:CD2	2.29	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1263:HIS:NE2	1:E:900:GLY:HA2	1.91	0.85
1:B:746:ILE:HG23	1:B:1182:ASP:CB	2.05	0.85
1:C:734:LEU:HD11	1:C:738:HIS:CD2	2.12	0.85
1:E:828:LEU:CD2	1:E:1172:SER:HB2	2.07	0.85
1:E:1438:ARG:HD2	2:K:377:ARG:N	1.90	0.85
1:F:746:ILE:HG23	1:F:1182:ASP:CB	2.05	0.85
2:H:31:ILE:HD12	2:H:32:TYR:N	1.91	0.85
2:H:110:ILE:HD11	2:H:118:VAL:N	1.91	0.85
2:H:197:LYS:HE2	2:H:275:ASP:H	1.40	0.85
2:I:443:ILE:HD12	2:I:444:VAL:N	1.92	0.85
2:J:388:PHE:CD2	2:J:390:VAL:HG13	2.10	0.85
2:K:181:ARG:C	2:K:182:MET:HE3	2.01	0.85
2:K:197:LYS:HE2	2:K:275:ASP:H	1.40	0.85
1:A:227:MET:HE2	1:A:282:GLU:HG2	1.56	0.85
1:A:782:ARG:O	2:J:57:VAL:CG2	2.24	0.85
1:F:652:THR:HG21	1:F:703:GLY:HA2	1.59	0.85
1:F:780:ARG:CG	2:I:51:GLY:O	2.24	0.85
1:F:1047:MET:HG2	1:F:1186:ARG:NH2	1.91	0.85
2:G:324:ARG:HA	2:G:346:TRP:CD2	2.12	0.85
2:H:430:LYS:HE2	2:H:440:ALA:HB2	1.57	0.85
2:I:110:ILE:HD11	2:I:118:VAL:N	1.91	0.85
1:A:950:THR:HG22	1:A:952:MET:H	1.42	0.85
1:B:1115:VAL:O	1:B:1115:VAL:CG1	2.22	0.85
1:B:1128:PHE:CZ	1:B:1130:GLY:HA3	2.11	0.85
2:H:186:LEU:HD11	2:H:200:VAL:HB	1.57	0.85
2:I:271:VAL:HG21	2:I:285:LEU:HG	1.59	0.85
2:J:324:ARG:HA	2:J:346:TRP:CD2	2.12	0.85
1:A:704:LEU:O	1:A:706:LYS:N	2.10	0.84
1:B:30:HIS:HD2	1:B:31:ARG:HG3	1.38	0.84
1:C:482:ASP:OD1	1:C:788:HIS:HD2	1.59	0.84
1:C:1425:LYS:HD3	1:C:1447:TRP:CE2	2.12	0.84
1:D:843:VAL:HG12	1:D:844:GLU:N	1.92	0.84
1:D:1047:MET:HG2	1:D:1186:ARG:NH2	1.91	0.84
1:E:704:LEU:O	1:E:706:LYS:N	2.10	0.84
1:E:746:ILE:HG23	1:E:1182:ASP:HB3	1.58	0.84
2:G:80:ALA:HB3	2:G:127:ILE:CG1	2.05	0.84
2:J:80:ALA:HB3	2:J:127:ILE:CD1	2.05	0.84
2:J:443:ILE:HD12	2:J:444:VAL:N	1.92	0.84
1:A:724:ASN:H	1:A:724:ASN:HD22	1.25	0.84
1:A:782:ARG:HD3	2:J:53:PRO:HD3	1.56	0.84
1:C:782:ARG:O	2:K:57:VAL:CG2	2.24	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:828:LEU:CD2	1:C:1172:SER:HB2	2.07	0.84
1:E:515:ARG:HH22	1:E:966:ILE:HB	1.41	0.84
1:E:838:VAL:HG12	1:E:839:PRO:N	1.92	0.84
1:E:1338:ALA:O	1:E:1340:GLY:N	2.08	0.84
1:F:782:ARG:CD	2:I:53:PRO:HD2	1.99	0.84
2:G:166:LEU:HA	2:G:169:LYS:HE2	1.58	0.84
2:G:186:LEU:HD11	2:G:200:VAL:HB	1.57	0.84
2:I:430:LYS:HE2	2:I:440:ALA:HB2	1.58	0.84
1:A:6:ILE:HG12	1:A:364:ILE:HG23	1.57	0.84
1:A:877:ARG:CG	1:C:1229:MET:HA	2.05	0.84
1:A:1425:LYS:HD3	1:A:1447:TRP:CE2	2.12	0.84
1:A:1438:ARG:HD2	2:L:377:ARG:N	1.90	0.84
1:B:52:GLN:HE22	1:B:71:LEU:H	1.24	0.84
1:C:353:MET:HE2	1:C:366:GLY:O	1.76	0.84
1:D:1263:HIS:CE1	1:F:899:ASN:O	2.30	0.84
1:F:218:THR:HG21	1:F:221:LEU:HG	1.56	0.84
2:G:423:LEU:HD21	2:G:443:ILE:CD1	2.07	0.84
2:H:220:VAL:HG23	8:H:484:FAD:H62A	1.40	0.84
2:I:54:PHE:HB3	2:I:107:ASN:HB3	1.60	0.84
2:J:197:LYS:HE2	2:J:275:ASP:H	1.40	0.84
2:K:31:ILE:HD12	2:K:32:TYR:N	1.91	0.84
2:K:132:TRP:CD1	2:K:202:ARG:HD2	2.12	0.84
2:L:443:ILE:HD12	2:L:444:VAL:N	1.92	0.84
1:A:838:VAL:CG1	1:A:839:PRO:CD	2.56	0.84
1:B:555:PHE:CD1	1:B:555:PHE:C	2.55	0.84
1:C:825:LEU:HD11	1:C:1186:ARG:HH12	1.40	0.84
1:E:353:MET:HE2	1:E:366:GLY:O	1.76	0.84
1:E:588:ARG:O	1:E:592:GLU:HG3	1.78	0.84
1:E:1221:PRO:HG2	1:E:1229:MET:HE1	1.57	0.84
1:F:1128:PHE:CZ	1:F:1130:GLY:HA3	2.11	0.84
2:G:303:ASP:O	2:G:307:THR:HG22	1.76	0.84
2:L:324:ARG:HA	2:L:346:TRP:CD2	2.12	0.84
1:A:825:LEU:HD11	1:A:1186:ARG:HH12	1.41	0.84
1:B:1263:HIS:NE2	1:D:900:GLY:CA	2.17	0.84
1:C:515:ARG:HH22	1:C:966:ILE:HB	1.42	0.84
1:C:731:SER:HA	1:C:748:GLY:H	1.42	0.84
1:C:828:LEU:HD22	1:C:1172:SER:HB2	1.57	0.84
1:E:825:LEU:HD11	1:E:1186:ARG:HH12	1.41	0.84
2:I:324:ARG:HA	2:I:346:TRP:CD2	2.12	0.84
2:J:132:TRP:CD1	2:J:202:ARG:HD2	2.12	0.84
2:K:54:PHE:HB3	2:K:107:ASN:HB3	1.60	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:876:ASN:HB2	1:C:1227:GLU:OE1	1.78	0.84
1:B:253:HIS:CE1	1:B:254:PRO:HD2	2.11	0.84
1:C:409:HIS:O	1:C:412:THR:HB	1.76	0.84
1:C:746:ILE:HG23	1:C:1182:ASP:HB3	1.58	0.84
1:C:826:ARG:HG2	1:C:826:ARG:NH1	1.83	0.84
1:D:253:HIS:CE1	1:D:254:PRO:HD2	2.11	0.84
1:E:290:THR:HG23	1:E:292:PRO:HD2	1.56	0.84
1:E:372:VAL:HG12	1:E:372:VAL:O	1.74	0.84
1:E:482:ASP:OD1	1:E:788:HIS:CD2	2.29	0.84
1:F:52:GLN:HE22	1:F:71:LEU:HB2	1.42	0.84
2:G:31:ILE:HD12	2:G:32:TYR:N	1.91	0.84
2:H:54:PHE:HB3	2:H:107:ASN:HB3	1.60	0.84
2:I:303:ASP:O	2:I:307:THR:HG22	1.76	0.84
2:I:449:LEU:HD23	2:I:452:TRP:CG	2.13	0.84
2:J:423:LEU:HD21	2:J:443:ILE:CD1	2.07	0.84
2:J:449:LEU:HD23	2:J:452:TRP:CG	2.13	0.84
2:L:132:TRP:CD1	2:L:202:ARG:HD2	2.12	0.84
2:L:449:LEU:HD23	2:L:452:TRP:CG	2.13	0.84
1:A:828:LEU:CD2	1:A:1172:SER:HB2	2.07	0.84
1:A:937:LYS:HE3	1:A:1033:SER:HB2	1.59	0.84
1:A:1221:PRO:HG2	1:A:1229:MET:HE1	1.58	0.84
1:A:1227:GLU:OE1	1:E:876:ASN:HB2	1.78	0.84
1:B:1047:MET:HG2	1:B:1186:ARG:NH2	1.91	0.84
1:C:838:VAL:CG1	1:C:839:PRO:CD	2.55	0.84
1:C:932:VAL:O	1:C:933:ALA:HB2	1.78	0.84
2:G:250:ALA:HB1	2:G:251:PRO:HD2	1.57	0.84
2:H:166:LEU:HA	2:H:169:LYS:HE2	1.58	0.84
2:H:250:ALA:HB1	2:H:251:PRO:HD2	1.57	0.84
2:I:449:LEU:HD21	2:I:451:VAL:CG1	2.08	0.84
2:L:220:VAL:HG23	8:L:484:FAD:H62A	1.40	0.84
2:L:242:VAL:HG12	2:L:403:PRO:CD	2.07	0.84
2:L:281:GLU:HG3	2:L:284:SER:H	1.39	0.84
1:A:588:ARG:O	1:A:592:GLU:HG3	1.78	0.84
1:C:584:ASP:OD1	1:C:584:ASP:N	2.04	0.84
1:C:659:ILE:HG21	1:C:716:ILE:HD11	1.59	0.84
1:C:1401:LEU:HD12	1:C:1401:LEU:C	2.03	0.84
1:D:30:HIS:HD2	1:D:31:ARG:HG3	1.38	0.84
1:E:659:ILE:HG21	1:E:716:ILE:HD11	1.59	0.84
1:E:731:SER:HA	1:E:748:GLY:H	1.42	0.84
1:E:782:ARG:O	2:L:57:VAL:CG2	2.24	0.84
1:F:253:HIS:H	1:F:260:MET:HE1	1.39	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:449:LEU:HD21	2:H:451:VAL:CG1	2.08	0.84
2:I:132:TRP:CD1	2:I:202:ARG:HD2	2.12	0.84
2:I:197:LYS:HE2	2:I:275:ASP:H	1.40	0.84
2:J:54:PHE:HB3	2:J:107:ASN:HB3	1.60	0.84
2:J:449:LEU:HD21	2:J:451:VAL:CG1	2.08	0.84
1:A:828:LEU:HD22	1:A:1172:SER:HB2	1.57	0.84
1:A:900:GLY:HA2	1:C:1263:HIS:NE2	1.91	0.84
1:E:724:ASN:ND2	1:E:724:ASN:H	1.73	0.84
2:G:242:VAL:HG12	2:G:403:PRO:CD	2.07	0.84
2:H:443:ILE:HD12	2:H:444:VAL:N	1.92	0.84
2:H:449:LEU:HD23	2:H:452:TRP:CG	2.13	0.84
2:J:271:VAL:HG21	2:J:285:LEU:HG	1.59	0.84
2:K:186:LEU:HD11	2:K:200:VAL:HB	1.57	0.84
2:K:449:LEU:HD21	2:K:451:VAL:CG1	2.08	0.84
2:L:303:ASP:O	2:L:307:THR:HG22	1.76	0.84
2:L:423:LEU:HD21	2:L:443:ILE:CD1	2.07	0.84
2:L:430:LYS:HE2	2:L:440:ALA:HB2	1.57	0.84
1:A:734:LEU:HD11	1:A:738:HIS:CD2	2.12	0.84
1:C:729:GLY:O	1:C:748:GLY:HA3	1.78	0.84
1:C:937:LYS:HE3	1:C:1033:SER:HB2	1.59	0.84
1:D:1115:VAL:O	1:D:1115:VAL:CG1	2.22	0.84
1:E:838:VAL:CG1	1:E:839:PRO:CD	2.55	0.84
1:F:777:GLY:O	1:F:788:HIS:HE1	1.60	0.84
2:G:304:CYS:HA	2:G:307:THR:CG2	2.08	0.84
2:H:242:VAL:HG12	2:H:403:PRO:CD	2.07	0.84
2:H:304:CYS:HA	2:H:307:THR:CG2	2.08	0.84
2:H:350:PRO:HB2	2:H:373:ASP:N	1.93	0.84
2:K:304:CYS:HA	2:K:307:THR:CG2	2.08	0.84
2:K:324:ARG:HA	2:K:346:TRP:CD2	2.12	0.84
2:K:449:LEU:HD23	2:K:452:TRP:CG	2.13	0.84
2:L:271:VAL:HG21	2:L:285:LEU:HG	1.59	0.84
2:L:304:CYS:HA	2:L:307:THR:CG2	2.08	0.84
1:A:310:PRO:HG3	1:A:404:ARG:HH22	1.43	0.83
1:B:652:THR:HG21	1:B:703:GLY:HA2	1.59	0.83
1:B:1228:LYS:HB3	1:D:901:ASP:OD1	1.76	0.83
1:C:982:GLN:HE22	1:C:1240:ARG:HD2	1.43	0.83
1:C:1114:PRO:HA	2:K:112:GLN:C	1.74	0.83
1:D:182:MET:HE2	1:D:217:PRO:HB2	1.54	0.83
1:D:555:PHE:C	1:D:555:PHE:CD1	2.55	0.83
1:D:1349:ARG:CG	1:D:1349:ARG:NH1	2.34	0.83
2:G:449:LEU:HD23	2:G:452:TRP:CG	2.13	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:220:VAL:HG23	8:K:484:FAD:H62A	1.41	0.83
2:K:350:PRO:HB2	2:K:373:ASP:N	1.93	0.83
1:A:982:GLN:HE22	1:A:1240:ARG:HD2	1.43	0.83
1:B:1442:GLU:CG	2:H:374:ALA:O	2.26	0.83
1:C:102:TYR:CE2	1:C:144:PHE:HE1	1.89	0.83
1:C:838:VAL:HG12	1:C:839:PRO:N	1.92	0.83
1:C:1447:TRP:CE2	1:C:1451:VAL:CG2	2.61	0.83
1:E:1401:LEU:HD12	1:E:1401:LEU:C	2.03	0.83
1:F:501:GLN:HE21	1:F:653:HIS:HD2	0.90	0.83
2:G:350:PRO:HB2	2:G:373:ASP:N	1.93	0.83
2:L:54:PHE:HB3	2:L:107:ASN:HB3	1.60	0.83
1:A:227:MET:HE3	1:A:282:GLU:HA	1.59	0.83
1:C:464:ILE:HD11	1:C:779:TYR:CZ	2.13	0.83
1:C:876:ASN:HB2	1:E:1227:GLU:OE1	1.78	0.83
1:E:227:MET:HE3	1:E:282:GLU:HA	1.59	0.83
1:E:526:LEU:N	1:E:526:LEU:CD1	2.40	0.83
2:G:54:PHE:HB3	2:G:107:ASN:HB3	1.60	0.83
2:G:132:TRP:CD1	2:G:202:ARG:HD2	2.12	0.83
1:A:459:GLU:O	1:A:463:LEU:HB2	1.78	0.83
1:A:464:ILE:HD11	1:A:779:TYR:CZ	2.13	0.83
1:A:1447:TRP:CE2	1:A:1451:VAL:CG2	2.61	0.83
1:E:1115:VAL:O	1:E:1115:VAL:CG1	2.24	0.83
1:E:1425:LYS:HD3	1:E:1447:TRP:CE2	2.12	0.83
2:G:415:LEU:HG	2:G:432:THR:HG23	1.61	0.83
2:K:423:LEU:HD21	2:K:443:ILE:CD1	2.07	0.83
1:A:59:VAL:HG22	1:A:105:TYR:HD2	1.44	0.83
1:C:227:MET:HE3	1:C:282:GLU:HA	1.59	0.83
1:C:459:GLU:O	1:C:463:LEU:HB2	1.78	0.83
1:D:777:GLY:O	1:D:788:HIS:HE1	1.60	0.83
1:E:459:GLU:O	1:E:463:LEU:HB2	1.78	0.83
1:E:782:ARG:HD3	2:L:53:PRO:CD	2.05	0.83
1:F:843:VAL:HG12	1:F:844:GLU:N	1.92	0.83
2:G:443:ILE:HD12	2:G:444:VAL:N	1.92	0.83
2:I:281:GLU:HG3	2:I:284:SER:H	1.39	0.83
2:J:242:VAL:HG12	2:J:403:PRO:CD	2.07	0.83
2:L:350:PRO:HB2	2:L:373:ASP:N	1.93	0.83
2:L:449:LEU:HD21	2:L:451:VAL:CG1	2.08	0.83
1:B:783:LYS:HE2	2:G:57:VAL:HG12	1.60	0.83
1:D:52:GLN:HE22	1:D:71:LEU:HB2	1.42	0.83
1:E:430:VAL:CG1	1:E:554:GLU:HB2	2.08	0.83
2:H:324:ARG:HA	2:H:346:TRP:CD2	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:443:ILE:HD12	2:K:444:VAL:N	1.92	0.83
1:A:526:LEU:N	1:A:526:LEU:CD1	2.40	0.83
1:B:777:GLY:O	1:B:788:HIS:HE1	1.60	0.83
1:C:1221:PRO:HB2	1:C:1229:MET:CE	2.09	0.83
1:E:704:LEU:O	1:E:705:LEU:C	2.20	0.83
1:F:973:ASP:OD2	1:F:1298:LYS:HE3	1.79	0.83
1:F:1047:MET:CG	1:F:1186:ARG:CZ	2.56	0.83
2:G:71:LEU:HD22	2:G:71:LEU:O	1.79	0.83
2:H:153:ILE:CD1	8:H:484:FAD:H2A	2.08	0.83
2:I:153:ILE:CD1	8:I:484:FAD:H2A	2.08	0.83
2:I:415:LEU:HG	2:I:432:THR:HG23	1.61	0.83
2:K:71:LEU:HD22	2:K:71:LEU:O	1.79	0.83
2:K:166:LEU:HA	2:K:169:LYS:HE2	1.58	0.83
2:L:141:THR:HB	2:L:142:PRO:HD2	1.61	0.83
1:A:364:ILE:HD12	1:A:374:ILE:HD11	1.60	0.83
1:A:1401:LEU:HD12	1:A:1401:LEU:C	2.03	0.83
1:E:464:ILE:HD11	1:E:779:TYR:CZ	2.13	0.83
1:E:1447:TRP:CE2	1:E:1451:VAL:CG2	2.61	0.83
2:G:153:ILE:CD1	8:G:484:FAD:H2A	2.08	0.83
2:G:207:LEU:HD12	2:G:207:LEU:O	1.79	0.83
2:I:242:VAL:HG12	2:I:403:PRO:CD	2.07	0.83
2:I:423:LEU:HD21	2:I:443:ILE:CD1	2.07	0.83
2:J:132:TRP:HA	2:J:202:ARG:NH1	1.94	0.83
2:L:71:LEU:HD22	2:L:71:LEU:O	1.79	0.83
2:L:415:LEU:HG	2:L:432:THR:HG23	1.61	0.83
1:A:1388:THR:CG2	1:A:1388:THR:O	2.27	0.83
1:B:1229:MET:CA	1:D:877:ARG:HG3	2.03	0.83
1:E:982:GLN:HE22	1:E:1240:ARG:HD2	1.43	0.83
2:H:71:LEU:HD22	2:H:71:LEU:O	1.79	0.83
2:H:132:TRP:HA	2:H:202:ARG:NH1	1.94	0.83
2:H:207:LEU:O	2:H:207:LEU:HD12	1.79	0.83
2:J:186:LEU:CD2	2:J:195:LEU:HD21	2.04	0.83
2:K:242:VAL:HG12	2:K:403:PRO:CD	2.07	0.83
2:K:271:VAL:HG21	2:K:285:LEU:HG	1.59	0.83
2:K:383:ILE:HD12	2:K:386:SER:H	1.44	0.83
2:L:153:ILE:CD1	8:L:484:FAD:H2A	2.08	0.83
1:A:253:HIS:CG	1:A:254:PRO:CD	2.52	0.83
1:A:515:ARG:HH22	1:A:966:ILE:HB	1.41	0.83
1:A:1062:ARG:NH2	1:A:1088:GLU:OE2	2.12	0.83
1:B:843:VAL:HG12	1:B:844:GLU:N	1.92	0.83
1:D:253:HIS:CD2	1:D:254:PRO:HD2	2.14	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:670:LEU:HD22	1:E:670:LEU:O	1.78	0.83
1:E:1062:ARG:NH2	1:E:1088:GLU:OE2	2.12	0.83
2:G:449:LEU:HD21	2:G:451:VAL:CG1	2.08	0.83
2:H:465:HIS:CE1	2:H:469:LYS:HE3	2.14	0.83
2:I:153:ILE:CG2	2:I:238:VAL:HA	2.09	0.83
2:J:430:LYS:HE2	2:J:440:ALA:HB2	1.58	0.83
2:J:465:HIS:CE1	2:J:469:LYS:HE3	2.14	0.83
2:K:141:THR:HB	2:K:142:PRO:HD2	1.61	0.83
2:K:153:ILE:CD1	8:K:484:FAD:H2A	2.08	0.83
2:K:465:HIS:CE1	2:K:469:LYS:HE3	2.14	0.83
1:B:1216:VAL:HG11	1:B:1249:MET:HE2	1.61	0.82
1:D:787:ARG:NH1	1:D:821:PRO:HG2	1.93	0.82
1:D:1442:GLU:CG	2:I:374:ALA:O	2.26	0.82
1:F:253:HIS:CD2	1:F:254:PRO:HD2	2.14	0.82
1:F:787:ARG:NH1	1:F:821:PRO:HG2	1.94	0.82
2:H:271:VAL:HG21	2:H:285:LEU:HG	1.59	0.82
2:H:383:ILE:HD12	2:H:386:SER:H	1.44	0.82
2:I:304:CYS:HA	2:I:307:THR:CG2	2.08	0.82
1:B:746:ILE:O	1:B:747:SER:C	2.22	0.82
1:D:1370:GLY:N	1:D:1389:GLY:O	2.12	0.82
2:G:271:VAL:HG21	2:G:285:LEU:HG	1.59	0.82
2:H:150:VAL:HG13	2:H:173:VAL:HA	1.62	0.82
2:I:383:ILE:HD12	2:I:386:SER:H	1.44	0.82
2:J:350:PRO:HB2	2:J:373:ASP:N	1.93	0.82
1:A:659:ILE:HG21	1:A:716:ILE:HD11	1.59	0.82
1:A:838:VAL:HG12	1:A:839:PRO:N	1.92	0.82
1:C:397:SER:HB2	1:C:399:LYS:HG3	1.61	0.82
1:C:430:VAL:CG1	1:C:554:GLU:HB2	2.08	0.82
1:C:588:ARG:O	1:C:592:GLU:HG3	1.78	0.82
1:D:1216:VAL:HG11	1:D:1249:MET:HE2	1.61	0.82
1:E:452:GLN:NE2	1:E:764:THR:CG2	2.42	0.82
1:E:729:GLY:O	1:E:748:GLY:HA3	1.78	0.82
1:E:1221:PRO:HB2	1:E:1229:MET:CE	2.09	0.82
2:G:321:ARG:HD3	2:G:322:ARG:N	1.95	0.82
2:J:153:ILE:CG2	2:J:238:VAL:HA	2.09	0.82
2:J:304:CYS:HA	2:J:307:THR:CG2	2.08	0.82
2:J:415:LEU:HG	2:J:432:THR:HG23	1.61	0.82
2:K:132:TRP:HA	2:K:202:ARG:NH1	1.94	0.82
2:L:150:VAL:HG13	2:L:173:VAL:HA	1.62	0.82
2:L:207:LEU:O	2:L:207:LEU:HD12	1.79	0.82
1:B:1438:ARG:NE	2:H:376:GLY:O	2.13	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:59:VAL:HG22	1:E:105:TYR:HD2	1.44	0.82
1:E:875:MET:HE1	1:E:1139:PHE:CD2	2.12	0.82
1:F:1442:GLU:CG	2:G:374:ALA:O	2.26	0.82
2:G:132:TRP:HA	2:G:202:ARG:NH1	1.94	0.82
2:G:465:HIS:CE1	2:G:469:LYS:HE3	2.14	0.82
2:H:430:LYS:HD3	2:H:460:ALA:HB2	1.62	0.82
2:I:350:PRO:HB2	2:I:373:ASP:N	1.93	0.82
2:K:321:ARG:HD3	2:K:322:ARG:N	1.95	0.82
1:C:342:VAL:HG11	1:C:390:MET:HE2	1.61	0.82
1:F:426:LEU:HD11	1:F:558:MET:HG3	1.62	0.82
1:F:1370:GLY:N	1:F:1389:GLY:O	2.12	0.82
2:G:353:PHE:C	2:G:369:LEU:HD23	2.05	0.82
2:H:423:LEU:HD21	2:H:443:ILE:CD1	2.07	0.82
2:I:186:LEU:CD2	2:I:195:LEU:HD21	2.04	0.82
2:K:150:VAL:HG13	2:K:173:VAL:HA	1.62	0.82
2:K:207:LEU:HD12	2:K:207:LEU:O	1.79	0.82
2:L:153:ILE:CG2	2:L:238:VAL:HA	2.09	0.82
1:B:734:LEU:HD12	1:B:738:HIS:HD2	1.43	0.82
1:C:434:SER:OG	1:C:438:GLU:OE2	1.97	0.82
1:C:595:ASP:O	1:C:596:ALA:C	2.20	0.82
1:D:52:GLN:HE22	1:D:71:LEU:H	1.24	0.82
1:D:973:ASP:OD2	1:D:1298:LYS:HE3	1.79	0.82
1:E:724:ASN:H	1:E:724:ASN:HD22	1.25	0.82
1:F:52:GLN:HE22	1:F:71:LEU:H	1.25	0.82
2:I:150:VAL:HG13	2:I:173:VAL:HA	1.62	0.82
2:J:153:ILE:CD1	8:J:484:FAD:H2A	2.08	0.82
2:L:465:HIS:CE1	2:L:469:LYS:HE3	2.14	0.82
1:A:452:GLN:NE2	1:A:764:THR:CG2	2.42	0.82
1:C:670:LEU:HD22	1:C:670:LEU:O	1.78	0.82
1:C:704:LEU:O	1:C:705:LEU:C	2.20	0.82
1:E:342:VAL:HG11	1:E:390:MET:HE2	1.61	0.82
1:E:434:SER:OG	1:E:438:GLU:OE2	1.97	0.82
1:E:513:SER:HB3	1:E:520:MET:HE2	1.62	0.82
1:E:595:ASP:O	1:E:596:ALA:C	2.20	0.82
1:F:555:PHE:CD1	1:F:555:PHE:C	2.55	0.82
1:F:746:ILE:O	1:F:747:SER:C	2.22	0.82
2:G:93:ILE:CD1	2:G:195:LEU:HD22	2.09	0.82
2:G:150:VAL:HG13	2:G:173:VAL:HA	1.62	0.82
2:G:153:ILE:CG2	2:G:238:VAL:HA	2.09	0.82
2:J:43:GLN:HE22	2:J:119:THR:HG23	1.45	0.82
2:J:353:PHE:C	2:J:369:LEU:HD23	2.05	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:415:LEU:HG	2:K:432:THR:HG23	1.61	0.82
2:L:406:LEU:HD23	2:L:407:PRO:CD	2.10	0.82
1:A:670:LEU:O	1:A:670:LEU:HD22	1.78	0.82
1:B:710:LYS:CG	1:B:939:GLY:HA3	2.10	0.82
1:B:787:ARG:NH1	1:B:821:PRO:HG2	1.94	0.82
1:C:746:ILE:HG21	1:C:1182:ASP:N	1.94	0.82
1:C:1062:ARG:NH2	1:C:1088:GLU:OE2	2.12	0.82
1:E:426:LEU:CD2	1:E:543:LEU:HB3	2.09	0.82
1:E:912:SER:HB2	1:E:968:PRO:HD2	1.62	0.82
1:E:932:VAL:O	1:E:933:ALA:HB2	1.78	0.82
1:F:182:MET:CE	1:F:217:PRO:CA	2.58	0.82
1:F:1216:VAL:HG11	1:F:1249:MET:HE2	1.61	0.82
2:I:207:LEU:HD12	2:I:207:LEU:O	1.79	0.82
2:I:465:HIS:CE1	2:I:469:LYS:HE3	2.14	0.82
1:A:426:LEU:CD2	1:A:543:LEU:HB3	2.09	0.82
1:A:729:GLY:O	1:A:748:GLY:HA3	1.78	0.82
1:A:1114:PRO:HA	2:J:112:GLN:C	1.74	0.82
1:B:182:MET:CE	1:B:217:PRO:CA	2.58	0.82
1:B:299:VAL:O	1:B:299:VAL:CG1	2.28	0.82
1:B:430:VAL:HG11	1:B:554:GLU:HB2	1.61	0.82
1:C:950:THR:HG22	1:C:952:MET:H	1.42	0.82
1:D:1062:ARG:O	1:D:1062:ARG:CG	2.26	0.82
1:E:266:VAL:O	1:E:279:THR:CG2	2.28	0.82
1:E:364:ILE:HD12	1:E:374:ILE:HD11	1.60	0.82
2:G:220:VAL:HG23	8:G:484:FAD:H62A	1.41	0.82
2:H:110:ILE:CD1	2:H:118:VAL:HG13	2.10	0.82
2:I:353:PHE:C	2:I:369:LEU:HD23	2.05	0.82
2:J:150:VAL:HG13	2:J:173:VAL:HA	1.62	0.82
2:J:201:GLU:HG3	2:J:205:LYS:HE2	1.62	0.82
2:J:207:LEU:HD12	2:J:207:LEU:O	1.79	0.82
2:K:93:ILE:CD1	2:K:195:LEU:HD22	2.09	0.82
2:K:365:VAL:HG22	2:K:366:ARG:HG3	1.62	0.82
2:K:430:LYS:HD3	2:K:460:ALA:HB2	1.62	0.82
2:L:353:PHE:C	2:L:369:LEU:HD23	2.05	0.82
1:A:266:VAL:O	1:A:279:THR:CG2	2.28	0.82
1:D:652:THR:HG21	1:D:703:GLY:HA2	1.59	0.82
1:D:746:ILE:O	1:D:747:SER:C	2.22	0.82
1:D:959:SER:HA	1:D:1369:THR:HG21	1.61	0.82
1:D:1047:MET:CG	1:D:1186:ARG:CZ	2.56	0.82
1:D:1184:ASN:HB3	1:D:1185:PRO:CD	2.10	0.82
2:G:406:LEU:HD23	2:G:407:PRO:CD	2.10	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:415:LEU:HG	2:H:432:THR:HG23	1.61	0.82
2:I:71:LEU:HD22	2:I:71:LEU:O	1.79	0.82
2:J:110:ILE:CD1	2:J:118:VAL:HG13	2.10	0.82
2:J:220:VAL:HG23	8:J:484:FAD:H62A	1.41	0.82
2:J:430:LYS:HD3	2:J:460:ALA:HB2	1.62	0.82
2:L:132:TRP:HA	2:L:202:ARG:NH1	1.94	0.82
2:L:201:GLU:HG3	2:L:205:LYS:HE2	1.62	0.82
2:L:321:ARG:HD3	2:L:322:ARG:N	1.95	0.82
1:A:746:ILE:HG23	1:A:1182:ASP:HB3	1.58	0.81
1:B:1047:MET:CG	1:B:1186:ARG:CZ	2.56	0.81
1:B:1263:HIS:CE1	1:D:900:GLY:HA2	2.09	0.81
1:B:1370:GLY:N	1:B:1389:GLY:O	2.12	0.81
1:C:1388:THR:O	1:C:1388:THR:CG2	2.27	0.81
2:G:43:GLN:NE2	2:G:119:THR:HG23	1.95	0.81
2:H:186:LEU:CD2	2:H:195:LEU:HD21	2.04	0.81
2:K:353:PHE:C	2:K:369:LEU:HD23	2.05	0.81
2:L:93:ILE:CD1	2:L:195:LEU:HD22	2.09	0.81
1:A:704:LEU:O	1:A:705:LEU:C	2.20	0.81
1:A:728:ILE:HD12	1:A:1047:MET:HE3	1.63	0.81
1:B:782:ARG:CD	2:G:53:PRO:HD2	1.99	0.81
1:B:1062:ARG:O	1:B:1062:ARG:CG	2.26	0.81
1:B:1349:ARG:NH1	1:B:1349:ARG:CG	2.34	0.81
1:B:1388:THR:CG2	1:B:1388:THR:O	2.29	0.81
1:E:139:VAL:CG1	1:E:140:SER:H	1.90	0.81
1:E:1388:THR:CG2	1:E:1388:THR:O	2.27	0.81
1:F:240:ASN:HD21	1:F:327:TRP:HA	1.45	0.81
1:F:783:LYS:HE2	2:I:57:VAL:HG12	1.60	0.81
1:F:974:ILE:HD11	1:F:983:LEU:HD12	1.62	0.81
2:G:200:VAL:HA	2:G:203:ARG:CD	2.11	0.81
2:H:365:VAL:HG22	2:H:366:ARG:HG3	1.62	0.81
2:I:141:THR:HB	2:I:142:PRO:HD2	1.61	0.81
2:L:322:ARG:HA	2:L:349:ALA:O	1.80	0.81
2:L:383:ILE:HD12	2:L:386:SER:H	1.44	0.81
1:A:182:MET:CE	1:A:217:PRO:C	2.54	0.81
1:A:397:SER:HB2	1:A:399:LYS:HG3	1.61	0.81
1:A:746:ILE:HG21	1:A:1182:ASP:N	1.94	0.81
1:A:932:VAL:O	1:A:933:ALA:HB2	1.78	0.81
1:B:52:GLN:HE22	1:B:71:LEU:HB2	1.42	0.81
1:B:240:ASN:HD21	1:B:327:TRP:HA	1.45	0.81
1:B:417:ASP:C	1:B:419:TRP:N	2.38	0.81
1:C:266:VAL:O	1:C:279:THR:CG2	2.28	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:364:ILE:HD12	1:C:374:ILE:HD11	1.60	0.81
1:C:447:LEU:HD12	1:C:451:GLN:HG3	1.62	0.81
1:D:479:MET:HG3	1:D:1104:MET:HE1	1.62	0.81
1:D:1263:HIS:CE1	1:F:900:GLY:HA2	2.09	0.81
1:E:584:ASP:OD1	1:E:584:ASP:N	2.04	0.81
1:E:937:LYS:HE3	1:E:1033:SER:HB2	1.59	0.81
1:F:1471:HIS:O	1:F:1472:LEU:HB2	1.80	0.81
2:G:322:ARG:HA	2:G:349:ALA:O	1.80	0.81
2:H:93:ILE:CD1	2:H:195:LEU:HD22	2.09	0.81
2:I:43:GLN:HE22	2:I:119:THR:HG23	1.45	0.81
2:I:200:VAL:HA	2:I:203:ARG:CD	2.11	0.81
2:I:201:GLU:HG3	2:I:205:LYS:HE2	1.62	0.81
2:I:322:ARG:HA	2:I:349:ALA:O	1.80	0.81
2:J:71:LEU:HD22	2:J:71:LEU:O	1.79	0.81
2:J:200:VAL:HA	2:J:203:ARG:CD	2.11	0.81
2:K:153:ILE:CG2	2:K:238:VAL:HA	2.09	0.81
2:K:322:ARG:HA	2:K:349:ALA:O	1.80	0.81
2:L:43:GLN:NE2	2:L:119:THR:HG23	1.95	0.81
1:A:434:SER:OG	1:A:438:GLU:OE2	1.97	0.81
1:B:1184:ASN:HB3	1:B:1185:PRO:CD	2.10	0.81
2:H:321:ARG:HD3	2:H:322:ARG:N	1.95	0.81
2:I:93:ILE:CD1	2:I:195:LEU:HD22	2.09	0.81
2:I:110:ILE:CD1	2:I:118:VAL:HG13	2.10	0.81
2:I:132:TRP:HA	2:I:202:ARG:NH1	1.94	0.81
2:I:319:LEU:HB2	2:I:345:ILE:HD11	1.62	0.81
1:A:430:VAL:CG1	1:A:554:GLU:HB2	2.08	0.81
1:A:531:ASN:OD1	1:A:533:LEU:HB2	1.81	0.81
1:A:950:THR:HG22	1:A:952:MET:N	1.95	0.81
1:B:974:ILE:HD11	1:B:983:LEU:HD12	1.62	0.81
1:D:240:ASN:HD21	1:D:327:TRP:HA	1.45	0.81
1:D:815:GLU:HA	1:D:815:GLU:OE1	1.80	0.81
1:D:1388:THR:CG2	1:D:1388:THR:O	2.29	0.81
1:E:950:THR:HG22	1:E:952:MET:H	1.42	0.81
1:F:866:GLU:OE2	1:F:1125:ARG:NH2	2.14	0.81
2:H:141:THR:HB	2:H:142:PRO:HD2	1.61	0.81
2:J:321:ARG:HD3	2:J:322:ARG:N	1.95	0.81
1:A:447:LEU:HD12	1:A:451:GLN:HG3	1.62	0.81
1:B:782:ARG:CZ	2:G:51:GLY:CA	1.75	0.81
1:C:452:GLN:NE2	1:C:764:THR:CG2	2.42	0.81
1:C:1221:PRO:CB	1:C:1229:MET:HE2	2.11	0.81
1:D:1438:ARG:NE	2:I:376:GLY:O	2.13	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:531:ASN:OD1	1:E:533:LEU:HB2	1.81	0.81
1:F:1388:THR:CG2	1:F:1388:THR:O	2.29	0.81
2:I:220:VAL:HG23	8:I:484:FAD:H62A	1.41	0.81
2:J:93:ILE:CD1	2:J:195:LEU:HD22	2.09	0.81
2:J:322:ARG:HD3	2:J:349:ALA:O	1.81	0.81
2:L:319:LEU:HB2	2:L:345:ILE:HD11	1.62	0.81
1:D:182:MET:CE	1:D:217:PRO:CA	2.58	0.81
1:E:182:MET:CE	1:E:217:PRO:C	2.54	0.81
1:E:290:THR:HG22	1:E:291:ALA:N	1.95	0.81
1:F:430:VAL:HG11	1:F:554:GLU:HB2	1.61	0.81
2:G:141:THR:HB	2:G:142:PRO:HD2	1.61	0.81
2:H:43:GLN:HE22	2:H:119:THR:HG23	1.45	0.81
2:I:322:ARG:HD3	2:I:349:ALA:O	1.81	0.81
2:K:43:GLN:NE2	2:K:119:THR:HG23	1.95	0.81
2:K:110:ILE:CD1	2:K:118:VAL:HG13	2.10	0.81
2:L:322:ARG:HD3	2:L:349:ALA:O	1.81	0.81
1:C:526:LEU:HD12	1:C:526:LEU:H	1.44	0.81
1:F:1438:ARG:NE	2:G:376:GLY:O	2.13	0.81
2:H:43:GLN:NE2	2:H:119:THR:HG23	1.95	0.81
2:H:153:ILE:CG2	2:H:238:VAL:HA	2.09	0.81
2:H:353:PHE:C	2:H:369:LEU:HD23	2.05	0.81
2:I:321:ARG:HD3	2:I:322:ARG:N	1.95	0.81
2:J:267:THR:HG21	2:J:286:ASN:ND2	1.96	0.81
2:J:418:THR:HB	2:J:424:LEU:CD1	2.11	0.81
1:A:1376:LEU:HB3	1:A:1439:PHE:HE1	1.45	0.81
1:B:479:MET:HG3	1:B:1104:MET:HE1	1.62	0.81
1:C:531:ASN:OD1	1:C:533:LEU:HB2	1.81	0.81
1:C:950:THR:HG22	1:C:952:MET:N	1.95	0.81
1:D:430:VAL:HG11	1:D:554:GLU:HB2	1.61	0.81
1:E:537:GLU:HG3	1:E:538:THR:N	1.92	0.81
2:G:201:GLU:HG3	2:G:205:LYS:HE2	1.62	0.81
2:H:267:THR:HG21	2:H:286:ASN:ND2	1.96	0.81
1:A:746:ILE:CG2	1:A:1182:ASP:N	2.43	0.81
1:C:513:SER:CB	1:C:520:MET:HE2	2.11	0.81
1:F:734:LEU:HD12	1:F:738:HIS:HD2	1.43	0.81
2:G:322:ARG:HD3	2:G:349:ALA:O	1.81	0.81
2:G:365:VAL:HG22	2:G:366:ARG:HG3	1.62	0.81
2:H:201:GLU:HG3	2:H:205:LYS:HE2	1.62	0.81
2:K:267:THR:HG21	2:K:286:ASN:ND2	1.96	0.81
1:A:526:LEU:HD12	1:A:526:LEU:H	1.44	0.80
1:A:1221:PRO:HB2	1:A:1229:MET:CE	2.09	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1322:ILE:HG23	1:A:1323:ILE:HG23	1.63	0.80
1:C:295:LYS:HZ3	1:C:299:VAL:HG12	1.46	0.80
1:D:299:VAL:O	1:D:299:VAL:CG1	2.28	0.80
1:D:302:ALA:HA	1:D:347:ARG:HH12	1.46	0.80
1:E:317:ILE:HG22	1:E:321:ASN:HD21	1.47	0.80
1:E:728:ILE:HD12	1:E:1047:MET:HE3	1.63	0.80
1:E:1376:LEU:HB3	1:E:1439:PHE:HE1	1.45	0.80
2:G:383:ILE:HD12	2:G:386:SER:H	1.44	0.80
2:H:418:THR:HB	2:H:424:LEU:CD1	2.11	0.80
2:I:267:THR:HG21	2:I:286:ASN:ND2	1.96	0.80
2:I:430:LYS:HD3	2:I:460:ALA:HB2	1.62	0.80
2:J:406:LEU:HD23	2:J:407:PRO:CD	2.10	0.80
2:L:43:GLN:HE22	2:L:119:THR:HG23	1.45	0.80
2:L:200:VAL:HA	2:L:203:ARG:CD	2.10	0.80
1:A:513:SER:CB	1:A:520:MET:HE2	2.11	0.80
1:A:973:ASP:OD2	1:A:1298:LYS:HE3	1.81	0.80
1:B:253:HIS:CD2	1:B:254:PRO:HD2	2.14	0.80
1:B:900:GLY:HA2	1:F:1263:HIS:CE1	2.09	0.80
1:E:1322:ILE:HG23	1:E:1323:ILE:HG23	1.63	0.80
1:F:1184:ASN:HB3	1:F:1185:PRO:CD	2.10	0.80
2:J:423:LEU:CD2	2:J:443:ILE:HD13	2.11	0.80
2:K:200:VAL:HA	2:K:203:ARG:CD	2.11	0.80
1:A:317:ILE:HG22	1:A:321:ASN:HD21	1.47	0.80
1:B:447:LEU:HD21	1:B:674:ALA:HA	1.64	0.80
1:B:1080:VAL:CG1	1:B:1084:MET:HE3	2.12	0.80
1:C:426:LEU:CD2	1:C:543:LEU:HB3	2.09	0.80
1:E:973:ASP:OD2	1:E:1298:LYS:HE3	1.81	0.80
1:E:1008:THR:CG2	1:E:1009:ILE:N	2.44	0.80
2:G:267:THR:HG21	2:G:286:ASN:ND2	1.96	0.80
2:H:322:ARG:HA	2:H:349:ALA:O	1.80	0.80
2:H:423:LEU:CD2	2:H:443:ILE:HD13	2.11	0.80
2:K:321:ARG:HB2	2:K:351:GLU:HA	1.64	0.80
1:A:290:THR:HG22	1:A:291:ALA:N	1.96	0.80
1:B:218:THR:HG22	1:B:218:THR:O	1.82	0.80
1:C:875:MET:HE1	1:C:1139:PHE:CD2	2.12	0.80
1:C:1184:ASN:HB3	1:C:1185:PRO:CD	2.11	0.80
1:D:734:LEU:HD12	1:D:738:HIS:HD2	1.43	0.80
1:F:302:ALA:HA	1:F:347:ARG:HH12	1.46	0.80
1:F:479:MET:HG3	1:F:1104:MET:HE1	1.62	0.80
1:F:652:THR:CG2	1:F:703:GLY:CA	2.59	0.80
2:H:200:VAL:HA	2:H:203:ARG:CD	2.10	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:434:MET:HB2	2:H:437:VAL:CG1	2.12	0.80
2:K:406:LEU:HD23	2:K:407:PRO:CD	2.10	0.80
1:A:375:ASP:OD2	1:A:377:THR:CB	2.26	0.80
1:A:959:SER:HA	1:A:1369:THR:HG23	1.62	0.80
1:A:1229:MET:CA	1:E:877:ARG:HG3	2.11	0.80
1:B:693:MET:HA	1:B:693:MET:HE3	1.63	0.80
1:C:182:MET:CE	1:C:217:PRO:C	2.54	0.80
1:C:230:HIS:HE1	1:C:234:ILE:HG13	1.46	0.80
1:D:242:ASN:ND2	1:D:242:ASN:H	1.79	0.80
1:E:182:MET:HE3	1:E:217:PRO:CA	2.11	0.80
1:E:397:SER:HB2	1:E:399:LYS:HG3	1.61	0.80
1:F:1062:ARG:O	1:F:1062:ARG:CG	2.26	0.80
2:G:110:ILE:CD1	2:G:118:VAL:HG13	2.10	0.80
2:J:203:ARG:CZ	2:J:203:ARG:HB3	2.11	0.80
2:J:319:LEU:HB2	2:J:345:ILE:HD11	1.62	0.80
2:K:306:ARG:O	2:K:309:ILE:HG12	1.82	0.80
1:A:182:MET:HE3	1:A:217:PRO:CA	2.11	0.80
1:A:342:VAL:HG11	1:A:390:MET:HE2	1.61	0.80
1:A:501:GLN:HE21	1:A:653:HIS:HD2	1.30	0.80
1:D:652:THR:CG2	1:D:703:GLY:CA	2.59	0.80
1:D:783:LYS:HE2	2:H:57:VAL:HG12	1.60	0.80
1:D:963:VAL:CG1	1:D:964:MET:N	2.45	0.80
1:E:447:LEU:HD12	1:E:451:GLN:HG3	1.62	0.80
2:G:161:ALA:HB2	2:G:454:ILE:HG12	1.64	0.80
2:G:430:LYS:HD3	2:G:460:ALA:HB2	1.62	0.80
2:I:43:GLN:NE2	2:I:119:THR:HG23	1.95	0.80
2:K:201:GLU:HG3	2:K:205:LYS:HE2	1.62	0.80
2:K:418:THR:HB	2:K:424:LEU:CD1	2.11	0.80
2:L:110:ILE:CD1	2:L:118:VAL:HG13	2.10	0.80
1:A:513:SER:HB3	1:A:520:MET:HE2	1.62	0.80
1:B:973:ASP:OD2	1:B:1298:LYS:HE3	1.79	0.80
1:C:59:VAL:HG22	1:C:105:TYR:HD2	1.44	0.80
1:C:912:SER:HB2	1:C:968:PRO:HD2	1.62	0.80
1:C:1376:LEU:HB3	1:C:1439:PHE:HE1	1.45	0.80
1:D:1080:VAL:CG1	1:D:1084:MET:HE3	2.12	0.80
1:E:513:SER:CB	1:E:520:MET:HE2	2.11	0.80
1:F:693:MET:HA	1:F:693:MET:HE3	1.63	0.80
2:G:69:LEU:HD12	2:G:69:LEU:O	1.82	0.80
2:H:322:ARG:HD3	2:H:349:ALA:O	1.81	0.80
2:H:331:GLN:HA	2:H:334:VAL:CG2	2.12	0.80
2:J:43:GLN:NE2	2:J:119:THR:HG23	1.95	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:322:ARG:HA	2:J:349:ALA:O	1.80	0.80
2:J:383:ILE:HD12	2:J:386:SER:H	1.44	0.80
1:A:912:SER:HB2	1:A:968:PRO:HD2	1.62	0.80
1:C:728:ILE:HD12	1:C:1047:MET:HE3	1.63	0.80
1:C:1322:ILE:HG23	1:C:1323:ILE:HG23	1.63	0.80
1:D:426:LEU:HD11	1:D:558:MET:HG3	1.61	0.80
1:D:704:LEU:O	1:D:705:LEU:C	2.25	0.80
1:D:1471:HIS:O	1:D:1472:LEU:HB2	1.80	0.80
1:E:454:PHE:CG	1:E:648:GLU:HB2	2.17	0.80
1:E:950:THR:HG22	1:E:952:MET:N	1.95	0.80
1:F:959:SER:HA	1:F:1369:THR:HG21	1.61	0.80
2:G:319:LEU:HB2	2:G:345:ILE:HD11	1.62	0.80
2:H:161:ALA:HB2	2:H:454:ILE:HG12	1.64	0.80
2:J:123:VAL:O	2:J:127:ILE:HG22	1.82	0.80
2:J:141:THR:HB	2:J:142:PRO:HD2	1.61	0.80
2:J:365:VAL:HG22	2:J:366:ARG:HG3	1.62	0.80
2:J:429:THR:HG21	2:J:431:MET:CE	2.12	0.80
1:A:595:ASP:O	1:A:596:ALA:C	2.20	0.80
1:A:877:ARG:HG3	1:C:1229:MET:CA	2.11	0.80
1:C:372:VAL:HG12	1:C:372:VAL:O	1.74	0.80
1:D:974:ILE:HD11	1:D:983:LEU:HD12	1.62	0.80
1:F:582:LEU:H	1:F:755:GLN:HE22	1.30	0.80
1:F:1039:LYS:O	1:F:1040:PHE:HD1	1.63	0.80
2:G:306:ARG:O	2:G:309:ILE:HG12	1.82	0.80
2:I:92:GLU:HB2	2:I:203:ARG:CZ	2.12	0.80
2:J:306:ARG:O	2:J:309:ILE:HG12	1.82	0.80
2:J:450:VAL:HG12	8:J:484:FAD:O2	1.82	0.80
2:K:423:LEU:CD2	2:K:443:ILE:HD13	2.11	0.80
2:L:321:ARG:HB2	2:L:351:GLU:HA	1.64	0.80
1:A:1221:PRO:CB	1:A:1229:MET:HE2	2.11	0.80
1:B:466:HIS:CE1	1:B:684:PHE:CE1	2.70	0.80
1:B:704:LEU:O	1:B:705:LEU:C	2.25	0.80
1:B:899:ASN:O	1:F:1263:HIS:ND1	2.15	0.80
1:B:900:GLY:CA	1:F:1263:HIS:NE2	2.17	0.80
1:B:1039:LYS:O	1:B:1040:PHE:HD1	1.63	0.80
1:B:1121:ASP:OD2	1:B:1124:LEU:HB2	1.82	0.80
1:B:1263:HIS:ND1	1:D:899:ASN:O	2.15	0.80
1:D:37:ASP:OD2	1:D:40:THR:HB	1.82	0.80
1:D:235:ASN:HD22	1:D:236:THR:N	1.81	0.80
1:D:824:GLN:O	1:D:827:ASP:HB2	1.81	0.80
1:D:1114:PRO:O	2:H:112:GLN:HA	1.82	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:310:PRO:HG3	1:E:404:ARG:HH22	1.43	0.80
1:F:582:LEU:H	1:F:755:GLN:NE2	1.80	0.80
1:F:1080:VAL:CG1	1:F:1084:MET:HE3	2.12	0.80
1:F:1121:ASP:OD2	1:F:1124:LEU:HB2	1.82	0.80
2:H:306:ARG:O	2:H:309:ILE:HG12	1.82	0.80
2:J:92:GLU:HB2	2:J:203:ARG:CZ	2.12	0.80
2:K:319:LEU:HB2	2:K:345:ILE:HD11	1.62	0.80
2:K:322:ARG:HD3	2:K:349:ALA:O	1.81	0.80
2:L:267:THR:HG21	2:L:286:ASN:ND2	1.96	0.80
2:L:365:VAL:HG22	2:L:366:ARG:HG3	1.62	0.80
1:B:582:LEU:H	1:B:755:GLN:HE22	1.30	0.79
1:B:746:ILE:CG2	1:B:1182:ASP:N	2.37	0.79
1:B:815:GLU:OE1	1:B:815:GLU:HA	1.80	0.79
1:B:877:ARG:HG3	1:F:1229:MET:CA	2.03	0.79
1:B:959:SER:HA	1:B:1369:THR:HG21	1.61	0.79
1:C:780:ARG:HB3	2:K:51:GLY:C	2.07	0.79
1:D:447:LEU:HD21	1:D:674:ALA:HA	1.64	0.79
1:D:866:GLU:OE2	1:D:1125:ARG:NH2	2.14	0.79
1:D:1131:THR:HB	1:D:1134:LYS:HG3	1.65	0.79
2:G:288:ALA:HB2	2:G:311:GLN:OE1	1.83	0.79
2:G:450:VAL:HG12	8:G:484:FAD:O2	1.82	0.79
2:I:203:ARG:CZ	2:I:203:ARG:HB3	2.11	0.79
2:I:365:VAL:HG22	2:I:366:ARG:HG3	1.62	0.79
2:J:69:LEU:HD12	2:J:69:LEU:O	1.82	0.79
2:L:288:ALA:HB2	2:L:311:GLN:OE1	1.82	0.79
2:L:450:VAL:HG12	8:L:484:FAD:O2	1.81	0.79
1:A:780:ARG:HB3	2:J:51:GLY:C	2.07	0.79
1:A:787:ARG:HH12	1:A:821:PRO:HB2	1.47	0.79
1:B:426:LEU:HD11	1:B:558:MET:HG3	1.62	0.79
1:B:963:VAL:CG1	1:B:964:MET:N	2.45	0.79
1:C:746:ILE:CG2	1:C:1182:ASP:N	2.43	0.79
1:C:876:ASN:CB	1:E:1227:GLU:OE1	2.31	0.79
1:D:565:THR:CG2	1:D:602:THR:HB	2.13	0.79
1:D:1263:HIS:ND1	1:F:899:ASN:O	2.15	0.79
1:E:974:ILE:HD11	1:E:983:LEU:CD1	2.13	0.79
1:E:1184:ASN:HB3	1:E:1185:PRO:CD	2.11	0.79
1:F:182:MET:HE3	1:F:217:PRO:CA	2.11	0.79
1:F:466:HIS:CE1	1:F:684:PHE:CE1	2.70	0.79
2:K:69:LEU:HD12	2:K:69:LEU:O	1.82	0.79
2:K:434:MET:HB2	2:K:437:VAL:CG1	2.12	0.79
2:L:394:LEU:HD22	2:L:396:ILE:HD12	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:536:ASP:OD1	1:A:536:ASP:C	2.25	0.79
1:B:37:ASP:OD2	1:B:40:THR:HB	1.82	0.79
1:B:310:PRO:HG3	1:B:404:ARG:HH22	1.45	0.79
1:B:778:PHE:CZ	1:B:1039:LYS:HD2	2.18	0.79
1:C:317:ILE:HG22	1:C:321:ASN:HD21	1.47	0.79
1:E:90:ARG:NH1	1:E:129:GLU:OE1	2.16	0.79
1:F:1131:THR:HB	1:F:1134:LYS:HG3	1.64	0.79
2:H:92:GLU:HB2	2:H:203:ARG:CZ	2.12	0.79
2:H:375:THR:HG22	2:H:377:ARG:H	1.47	0.79
2:H:450:VAL:HG12	8:H:484:FAD:O2	1.81	0.79
2:I:406:LEU:HD23	2:I:407:PRO:CD	2.10	0.79
2:K:288:ALA:HB2	2:K:311:GLN:OE1	1.83	0.79
2:K:429:THR:HG21	2:K:431:MET:CE	2.12	0.79
2:L:92:GLU:HB2	2:L:203:ARG:CZ	2.12	0.79
2:L:375:THR:HG22	2:L:377:ARG:H	1.47	0.79
1:A:1008:THR:CG2	1:A:1009:ILE:N	2.44	0.79
1:A:1227:GLU:OE1	1:E:876:ASN:CB	2.31	0.79
1:B:1114:PRO:O	2:G:112:GLN:HA	1.82	0.79
1:B:1317:THR:CG2	1:B:1318:ASN:N	2.44	0.79
1:B:1471:HIS:O	1:B:1472:LEU:HB2	1.80	0.79
1:C:454:PHE:CG	1:C:648:GLU:HB2	2.17	0.79
1:C:973:ASP:OD2	1:C:1298:LYS:HE3	1.82	0.79
1:C:1008:THR:CG2	1:C:1009:ILE:N	2.44	0.79
1:D:710:LYS:CG	1:D:939:GLY:HA3	2.10	0.79
1:F:746:ILE:C	1:F:747:SER:O	2.16	0.79
1:F:815:GLU:OE1	1:F:815:GLU:HA	1.80	0.79
2:G:43:GLN:HE22	2:G:119:THR:HG23	1.45	0.79
2:G:203:ARG:HB3	2:G:203:ARG:CZ	2.11	0.79
2:G:429:THR:HG21	2:G:431:MET:CE	2.12	0.79
2:I:123:VAL:O	2:I:127:ILE:HG22	1.82	0.79
2:I:288:ALA:HB2	2:I:311:GLN:OE1	1.83	0.79
2:L:430:LYS:HD3	2:L:460:ALA:HB2	1.62	0.79
2:L:434:MET:HB2	2:L:437:VAL:CG1	2.12	0.79
1:A:230:HIS:HE1	1:A:234:ILE:HG13	1.46	0.79
1:A:372:VAL:HG12	1:A:372:VAL:O	1.74	0.79
1:A:515:ARG:HD2	1:A:1367:TYR:HE1	1.46	0.79
1:B:302:ALA:HA	1:B:347:ARG:HH12	1.46	0.79
1:C:959:SER:HA	1:C:1369:THR:HG23	1.63	0.79
1:F:405:GLU:H	1:F:405:GLU:CD	1.90	0.79
1:F:565:THR:CG2	1:F:602:THR:HB	2.13	0.79
2:G:375:THR:HG22	2:G:377:ARG:H	1.47	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:394:LEU:HD22	2:G:396:ILE:HD12	1.65	0.79
2:H:123:VAL:O	2:H:127:ILE:HG22	1.82	0.79
2:I:375:THR:HG22	2:I:377:ARG:H	1.47	0.79
2:K:203:ARG:HB3	2:K:203:ARG:CZ	2.11	0.79
2:L:153:ILE:CD1	8:L:484:FAD:C2A	2.61	0.79
2:L:203:ARG:CZ	2:L:203:ARG:HB3	2.11	0.79
1:A:139:VAL:CG1	1:A:140:SER:H	1.90	0.79
1:B:242:ASN:ND2	1:B:242:ASN:H	1.79	0.79
1:D:582:LEU:H	1:D:755:GLN:NE2	1.80	0.79
1:D:1047:MET:HG2	1:D:1186:ARG:NH1	1.97	0.79
1:D:1121:ASP:OD2	1:D:1124:LEU:HB2	1.82	0.79
1:F:536:ASP:OD1	1:F:536:ASP:C	2.25	0.79
1:F:778:PHE:CZ	1:F:1039:LYS:HD2	2.18	0.79
2:G:92:GLU:HB2	2:G:203:ARG:CZ	2.12	0.79
2:I:394:LEU:HD22	2:I:396:ILE:HD12	1.65	0.79
2:J:321:ARG:HB2	2:J:351:GLU:CG	2.13	0.79
2:J:331:GLN:HA	2:J:334:VAL:CG2	2.12	0.79
2:J:375:THR:HG22	2:J:377:ARG:H	1.47	0.79
2:L:69:LEU:O	2:L:69:LEU:HD12	1.82	0.79
2:L:465:HIS:O	2:L:469:LYS:HG2	1.83	0.79
1:A:930:ILE:HD13	1:A:983:LEU:HD13	1.65	0.79
1:D:466:HIS:CE1	1:D:684:PHE:CE1	2.70	0.79
1:E:230:HIS:HE1	1:E:234:ILE:HG13	1.45	0.79
1:E:959:SER:HA	1:E:1369:THR:HG23	1.62	0.79
1:F:37:ASP:OD2	1:F:40:THR:HB	1.82	0.79
1:F:1401:LEU:C	1:F:1401:LEU:CD1	2.55	0.79
2:I:450:VAL:HG12	8:I:484:FAD:O2	1.81	0.79
2:K:321:ARG:HB2	2:K:351:GLU:CG	2.13	0.79
1:A:47:HIS:CE1	1:A:176:SER:HB3	2.18	0.79
1:A:580:GLU:O	1:A:584:ASP:OD1	2.01	0.79
1:B:565:THR:CG2	1:B:602:THR:HB	2.12	0.79
1:B:1318:ASN:H	1:B:1318:ASN:HD22	1.30	0.79
1:C:139:VAL:CG1	1:C:140:SER:H	1.90	0.79
1:D:310:PRO:HG3	1:D:404:ARG:HH22	1.45	0.79
1:E:501:GLN:HE21	1:E:653:HIS:HD2	1.30	0.79
1:F:1114:PRO:O	2:I:112:GLN:HA	1.82	0.79
2:H:288:ALA:HB2	2:H:311:GLN:OE1	1.82	0.79
2:H:321:ARG:HB2	2:H:351:GLU:HA	1.64	0.79
2:I:71:LEU:HD21	2:I:76:ARG:CB	2.12	0.79
2:J:92:GLU:OE1	2:J:199:VAL:HG22	1.83	0.79
2:J:161:ALA:HB2	2:J:454:ILE:HG12	1.64	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1290:GLY:O	1:A:1291:ASP:HB3	1.82	0.79
1:B:582:LEU:H	1:B:755:GLN:NE2	1.80	0.79
1:D:753:GLY:O	1:D:754:ILE:C	2.25	0.79
1:E:526:LEU:HD12	1:E:526:LEU:H	1.44	0.79
1:F:447:LEU:HD21	1:F:674:ALA:HA	1.64	0.79
1:F:746:ILE:CG2	1:F:1182:ASP:N	2.37	0.79
2:G:92:GLU:OE1	2:G:199:VAL:HG22	1.83	0.79
2:G:321:ARG:HB2	2:G:351:GLU:CG	2.13	0.79
2:I:434:MET:HB2	2:I:437:VAL:CG1	2.12	0.79
2:J:71:LEU:HD21	2:J:76:ARG:CB	2.12	0.79
2:K:153:ILE:CD1	8:K:484:FAD:C2A	2.61	0.79
2:K:161:ALA:HB2	2:K:454:ILE:HG12	1.64	0.79
2:L:71:LEU:CD2	2:L:76:ARG:HB2	2.13	0.79
1:A:551:THR:OG1	1:A:554:GLU:HG2	1.83	0.79
1:B:1131:THR:HB	1:B:1134:LYS:HG3	1.65	0.79
1:B:1227:GLU:HA	1:D:900:GLY:O	1.83	0.79
1:D:582:LEU:H	1:D:755:GLN:HE22	1.30	0.79
1:E:515:ARG:CD	1:E:1367:TYR:HE1	1.96	0.79
1:F:1047:MET:HG2	1:F:1186:ARG:NH1	1.97	0.79
2:G:123:VAL:O	2:G:127:ILE:HG22	1.82	0.79
2:H:319:LEU:HB2	2:H:345:ILE:HD11	1.62	0.79
2:I:153:ILE:CD1	8:I:484:FAD:C2A	2.61	0.79
2:J:257:ASN:CG	2:J:394:LEU:HA	2.08	0.79
2:K:71:LEU:CD2	2:K:76:ARG:HB2	2.13	0.79
2:K:92:GLU:HB2	2:K:203:ARG:CZ	2.12	0.79
1:B:235:ASN:HD22	1:B:236:THR:N	1.81	0.78
1:B:982:GLN:HE22	1:B:1240:ARG:HD2	1.48	0.78
1:C:47:HIS:CE1	1:C:176:SER:HB3	2.17	0.78
1:C:465:LEU:C	1:C:465:LEU:HD12	2.08	0.78
1:C:513:SER:HB3	1:C:520:MET:HE2	1.61	0.78
1:C:930:ILE:HD13	1:C:983:LEU:HD13	1.65	0.78
1:D:982:GLN:HE22	1:D:1240:ARG:HD2	1.48	0.78
1:E:1438:ARG:HB3	2:K:376:GLY:N	1.84	0.78
1:F:824:GLN:O	1:F:827:ASP:HB2	1.82	0.78
1:F:963:VAL:CG1	1:F:964:MET:N	2.45	0.78
1:F:1318:ASN:H	1:F:1318:ASN:HD22	1.30	0.78
2:H:71:LEU:HD21	2:H:76:ARG:CB	2.12	0.78
2:I:71:LEU:CD2	2:I:76:ARG:HB2	2.13	0.78
2:I:321:ARG:HB2	2:I:351:GLU:HA	1.64	0.78
2:I:351:GLU:N	2:I:372:ALA:HB3	1.99	0.78
2:K:257:ASN:CG	2:K:394:LEU:HA	2.08	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:113:ASN:HD21	1:A:115:ASP:H	1.31	0.78
1:A:974:ILE:HD11	1:A:983:LEU:CD1	2.13	0.78
1:A:1401:LEU:CD1	1:A:1405:ILE:HB	2.13	0.78
1:B:266:VAL:HG12	1:B:279:THR:CG2	2.14	0.78
1:B:536:ASP:OD1	1:B:536:ASP:C	2.25	0.78
1:B:602:THR:C	1:B:640:THR:CG2	2.56	0.78
1:B:900:GLY:O	1:F:1227:GLU:HA	1.83	0.78
1:C:1104:MET:C	2:K:54:PHE:HZ	1.91	0.78
1:E:47:HIS:CE1	1:E:176:SER:HB3	2.18	0.78
1:F:430:VAL:CG1	1:F:554:GLU:HB3	2.02	0.78
1:F:950:THR:CG2	1:F:952:MET:H	1.97	0.78
2:G:153:ILE:CD1	8:G:484:FAD:C2A	2.61	0.78
2:J:434:MET:HB2	2:J:437:VAL:CG1	2.12	0.78
2:K:349:ALA:HB3	2:K:350:PRO:HD3	1.66	0.78
2:K:450:VAL:HG12	8:K:484:FAD:O2	1.81	0.78
1:A:454:PHE:CG	1:A:648:GLU:HB2	2.17	0.78
1:C:310:PRO:HG3	1:C:404:ARG:HH22	1.43	0.78
1:C:580:GLU:O	1:C:584:ASP:OD1	2.01	0.78
1:E:536:ASP:OD1	1:E:536:ASP:C	2.25	0.78
1:E:746:ILE:CG2	1:E:1182:ASP:N	2.43	0.78
2:G:418:THR:HB	2:G:424:LEU:CD1	2.11	0.78
2:H:92:GLU:OE1	2:H:199:VAL:HG22	1.83	0.78
2:H:351:GLU:N	2:H:372:ALA:HB3	1.99	0.78
2:I:306:ARG:O	2:I:309:ILE:HG12	1.82	0.78
2:K:331:GLN:HA	2:K:334:VAL:CG2	2.12	0.78
2:L:71:LEU:HD21	2:L:76:ARG:CB	2.12	0.78
1:A:450:ARG:O	1:A:452:GLN:N	2.17	0.78
1:A:876:ASN:CB	1:C:1227:GLU:OE1	2.31	0.78
1:A:1043:LEU:HD23	1:A:1044:PRO:HD2	1.66	0.78
1:B:260:MET:O	1:B:263:LEU:HB2	1.84	0.78
1:B:824:GLN:O	1:B:827:ASP:HB2	1.82	0.78
1:C:227:MET:HE2	1:C:282:GLU:CG	2.14	0.78
1:C:355:TYR:C	1:C:355:TYR:CD1	2.61	0.78
1:D:218:THR:HG22	1:D:218:THR:O	1.82	0.78
1:D:522:LEU:HD21	1:D:705:LEU:CD2	2.14	0.78
1:D:778:PHE:CZ	1:D:1039:LYS:HD2	2.18	0.78
1:E:447:LEU:HD21	1:E:674:ALA:CA	2.13	0.78
1:F:242:ASN:ND2	1:F:242:ASN:H	1.79	0.78
1:F:1449:ARG:CB	1:F:1449:ARG:NH1	1.80	0.78
2:G:71:LEU:HG	2:G:79:GLU:CB	2.14	0.78
2:G:465:HIS:O	2:G:469:LYS:HG2	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:71:LEU:CD2	2:H:76:ARG:HB2	2.13	0.78
2:H:406:LEU:HD23	2:H:407:PRO:CD	2.10	0.78
2:H:429:THR:HG21	2:H:431:MET:CE	2.12	0.78
2:I:257:ASN:CG	2:I:394:LEU:HA	2.08	0.78
2:J:349:ALA:HB3	2:J:350:PRO:HD3	1.66	0.78
2:J:351:GLU:N	2:J:372:ALA:HB3	1.99	0.78
1:B:182:MET:HE3	1:B:217:PRO:CA	2.11	0.78
1:B:531:ASN:OD1	1:B:533:LEU:HB2	1.83	0.78
1:B:1216:VAL:CG1	1:B:1249:MET:HE2	2.14	0.78
1:C:290:THR:HG22	1:C:291:ALA:N	1.96	0.78
1:D:260:MET:O	1:D:263:LEU:HB2	1.84	0.78
1:D:405:GLU:H	1:D:405:GLU:CD	1.90	0.78
1:D:602:THR:C	1:D:640:THR:CG2	2.56	0.78
1:D:1216:VAL:CG1	1:D:1249:MET:HE2	2.14	0.78
1:E:450:ARG:O	1:E:452:GLN:N	2.17	0.78
1:F:235:ASN:HD22	1:F:236:THR:N	1.81	0.78
1:F:266:VAL:HG12	1:F:279:THR:CG2	2.14	0.78
1:F:982:GLN:HE22	1:F:1240:ARG:HD2	1.48	0.78
2:G:257:ASN:CG	2:G:394:LEU:HA	2.08	0.78
2:G:321:ARG:HB2	2:G:351:GLU:HA	1.64	0.78
2:G:331:GLN:HA	2:G:334:VAL:CG2	2.12	0.78
2:I:92:GLU:OE1	2:I:199:VAL:HG22	1.83	0.78
2:I:465:HIS:O	2:I:469:LYS:HG2	1.83	0.78
2:J:394:LEU:HD22	2:J:396:ILE:HD12	1.65	0.78
2:K:43:GLN:HE22	2:K:119:THR:HG23	1.45	0.78
2:K:351:GLU:N	2:K:372:ALA:HB3	1.99	0.78
2:L:123:VAL:O	2:L:127:ILE:HG22	1.82	0.78
2:L:306:ARG:O	2:L:309:ILE:HG12	1.82	0.78
2:L:331:GLN:HA	2:L:334:VAL:CG2	2.12	0.78
1:A:90:ARG:NH1	1:A:129:GLU:OE1	2.16	0.78
1:B:1047:MET:HG2	1:B:1186:ARG:NH1	1.97	0.78
1:C:253:HIS:CG	1:C:254:PRO:CD	2.52	0.78
1:C:501:GLN:HE21	1:C:653:HIS:HD2	1.30	0.78
1:C:1401:LEU:CD1	1:C:1405:ILE:HB	2.13	0.78
1:D:266:VAL:HG12	1:D:279:THR:CG2	2.14	0.78
1:D:693:MET:HA	1:D:693:MET:HE3	1.63	0.78
1:D:746:ILE:CG2	1:D:1182:ASP:N	2.37	0.78
1:E:1401:LEU:CD1	1:E:1405:ILE:HB	2.13	0.78
1:F:782:ARG:O	2:I:57:VAL:HG21	1.84	0.78
2:G:434:MET:HB2	2:G:437:VAL:CG1	2.12	0.78
2:H:69:LEU:O	2:H:69:LEU:HD12	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:349:ALA:HB3	2:H:350:PRO:HD3	1.66	0.78
2:I:321:ARG:HB2	2:I:351:GLU:CG	2.13	0.78
2:L:161:ALA:HB2	2:L:454:ILE:HG12	1.64	0.78
1:A:227:MET:HE2	1:A:282:GLU:CG	2.14	0.78
1:B:866:GLU:OE2	1:B:1125:ARG:NH2	2.14	0.78
1:C:528:ASN:HB3	1:C:542:LEU:HD22	1.66	0.78
1:C:877:ARG:HG3	1:E:1229:MET:CA	2.11	0.78
1:E:113:ASN:HD21	1:E:115:ASP:H	1.31	0.78
1:E:227:MET:HE2	1:E:282:GLU:CG	2.14	0.78
1:E:746:ILE:HG21	1:E:1182:ASP:N	1.94	0.78
1:E:1104:MET:C	2:L:54:PHE:HZ	1.91	0.78
1:F:310:PRO:HG3	1:F:404:ARG:HH22	1.45	0.78
1:F:531:ASN:OD1	1:F:533:LEU:HB2	1.83	0.78
2:G:321:ARG:CA	2:G:351:GLU:HA	2.14	0.78
2:J:71:LEU:CD2	2:J:76:ARG:HB2	2.13	0.78
1:A:447:LEU:HD13	1:A:670:LEU:HD21	1.65	0.78
1:B:405:GLU:H	1:B:405:GLU:CD	1.90	0.78
1:C:1043:LEU:HD23	1:C:1044:PRO:HD2	1.66	0.78
1:D:562:MET:HE3	1:D:566:ALA:HB2	1.66	0.78
1:E:551:THR:OG1	1:E:554:GLU:HG2	1.83	0.78
1:F:562:MET:HE3	1:F:566:ALA:HB2	1.66	0.78
1:F:602:THR:C	1:F:640:THR:CG2	2.56	0.78
2:G:71:LEU:CD2	2:G:76:ARG:HB2	2.13	0.78
2:G:349:ALA:HB3	2:G:350:PRO:HD3	1.66	0.78
2:H:321:ARG:HB2	2:H:351:GLU:CG	2.13	0.78
2:I:317:LYS:CG	2:I:345:ILE:HD12	2.14	0.78
2:I:331:GLN:HA	2:I:334:VAL:CG2	2.12	0.78
2:K:317:LYS:CG	2:K:345:ILE:HD12	2.14	0.78
2:L:92:GLU:OE1	2:L:199:VAL:HG22	1.83	0.78
2:L:321:ARG:HB2	2:L:351:GLU:CG	2.13	0.78
1:A:355:TYR:CD1	1:A:355:TYR:C	2.61	0.78
1:B:652:THR:CG2	1:B:703:GLY:CA	2.59	0.78
1:C:90:ARG:NH1	1:C:129:GLU:OE1	2.16	0.78
1:E:930:ILE:HD13	1:E:983:LEU:HD13	1.65	0.78
1:F:218:THR:HG22	1:F:218:THR:O	1.82	0.78
2:G:71:LEU:HD21	2:G:76:ARG:CB	2.12	0.78
2:G:317:LYS:CG	2:G:345:ILE:HD12	2.14	0.78
2:H:203:ARG:CZ	2:H:203:ARG:HB3	2.11	0.78
2:H:465:HIS:O	2:H:469:LYS:HG2	1.83	0.78
2:K:152:VAL:CG1	2:K:175:VAL:HA	2.12	0.78
2:K:375:THR:HG22	2:K:377:ARG:H	1.47	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:144:ARG:HB3	2:L:169:LYS:O	1.84	0.78
2:L:351:GLU:N	2:L:372:ALA:HB3	1.99	0.78
2:L:429:THR:HG21	2:L:431:MET:CE	2.12	0.78
1:C:213:THR:HB	1:C:1008:THR:HG23	1.66	0.78
1:C:450:ARG:O	1:C:452:GLN:N	2.17	0.78
1:C:551:THR:OG1	1:C:554:GLU:HG2	1.83	0.78
1:D:950:THR:CG2	1:D:952:MET:H	1.96	0.78
1:E:580:GLU:O	1:E:584:ASP:OD1	2.01	0.78
1:E:780:ARG:HB3	2:L:51:GLY:C	2.07	0.78
2:I:161:ALA:HB2	2:I:454:ILE:HG12	1.64	0.78
2:K:394:LEU:HD22	2:K:396:ILE:HD12	1.65	0.78
1:B:522:LEU:HD21	1:B:705:LEU:CD2	2.14	0.77
1:C:1290:GLY:O	1:C:1291:ASP:HB3	1.82	0.77
1:D:584:ASP:OD1	1:D:584:ASP:N	2.14	0.77
1:D:782:ARG:O	2:H:57:VAL:HG21	1.84	0.77
1:F:417:ASP:C	1:F:419:TRP:N	2.38	0.77
2:I:71:LEU:HG	2:I:79:GLU:CB	2.13	0.77
2:J:71:LEU:HG	2:J:79:GLU:CB	2.14	0.77
2:J:225:SER:CB	2:J:227:PRO:HD2	2.14	0.77
2:K:71:LEU:HD21	2:K:76:ARG:CB	2.12	0.77
1:B:572:THR:CG2	1:B:573:PHE:N	2.47	0.77
1:B:584:ASP:OD1	1:B:584:ASP:N	2.14	0.77
1:B:782:ARG:O	2:G:57:VAL:HG21	1.84	0.77
1:C:182:MET:HE3	1:C:217:PRO:CA	2.11	0.77
1:C:236:THR:CG2	1:C:328:ASP:N	2.45	0.77
1:C:447:LEU:HD21	1:C:674:ALA:CA	2.13	0.77
1:C:447:LEU:HD13	1:C:670:LEU:HD21	1.65	0.77
1:D:295:LYS:HD2	1:D:390:MET:HE3	1.67	0.77
1:D:1131:THR:HG22	1:D:1134:LYS:H	1.49	0.77
1:E:1395:TYR:CE1	1:E:1397:LEU:HD21	2.20	0.77
1:F:522:LEU:HD21	1:F:705:LEU:CD2	2.14	0.77
2:G:144:ARG:HB3	2:G:169:LYS:O	1.84	0.77
2:G:319:LEU:CA	2:G:345:ILE:HD11	2.15	0.77
2:G:351:GLU:N	2:G:372:ALA:HB3	1.99	0.77
2:I:225:SER:CB	2:I:227:PRO:HD2	2.14	0.77
2:J:288:ALA:HB2	2:J:311:GLN:OE1	1.83	0.77
2:K:123:VAL:O	2:K:127:ILE:HG22	1.82	0.77
1:A:24:ALA:HB1	1:A:207:TYR:CE2	2.19	0.77
1:A:528:ASN:HB3	1:A:542:LEU:HD22	1.66	0.77
1:D:536:ASP:OD1	1:D:536:ASP:C	2.25	0.77
1:E:890:ASP:O	1:E:893:ARG:HB2	1.84	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1216:VAL:CG1	1:F:1249:MET:HE2	2.14	0.77
2:G:164:GLU:OE1	2:G:207:LEU:HA	1.85	0.77
2:H:317:LYS:CG	2:H:345:ILE:HD12	2.14	0.77
2:I:317:LYS:HE3	2:I:345:ILE:CG2	2.15	0.77
2:J:317:LYS:HE3	2:J:345:ILE:CG2	2.15	0.77
1:A:177:ILE:HD13	1:A:179:TYR:HE1	1.49	0.77
1:B:1263:HIS:CE1	1:D:900:GLY:N	2.20	0.77
1:E:465:LEU:C	1:E:465:LEU:HD12	2.08	0.77
2:H:164:GLU:OE1	2:H:207:LEU:HA	1.85	0.77
2:H:394:LEU:HD22	2:H:396:ILE:HD12	1.65	0.77
2:I:353:PHE:CZ	2:I:370:GLY:HA3	2.19	0.77
2:J:430:LYS:HD2	2:J:456:ASP:O	1.85	0.77
2:K:353:PHE:CZ	2:K:370:GLY:HA3	2.19	0.77
1:B:249:THR:HG22	1:B:250:ARG:HG2	1.67	0.77
1:C:536:ASP:OD1	1:C:536:ASP:C	2.25	0.77
1:C:787:ARG:HH12	1:C:821:PRO:HB2	1.47	0.77
1:D:1039:LYS:O	1:D:1040:PHE:HD1	1.63	0.77
2:G:181:ARG:CG	2:G:187:VAL:HG11	2.15	0.77
2:H:257:ASN:CG	2:H:394:LEU:HA	2.08	0.77
2:I:69:LEU:O	2:I:69:LEU:HD12	1.82	0.77
2:J:164:GLU:OE1	2:J:207:LEU:HA	1.85	0.77
2:K:465:HIS:O	2:K:469:LYS:HG2	1.83	0.77
2:L:317:LYS:HE3	2:L:345:ILE:CG2	2.15	0.77
2:L:418:THR:HB	2:L:424:LEU:CD1	2.11	0.77
2:L:423:LEU:CD2	2:L:443:ILE:HD13	2.11	0.77
1:A:1184:ASN:HB3	1:A:1185:PRO:CD	2.11	0.77
1:B:295:LYS:HD2	1:B:390:MET:HE3	1.67	0.77
1:B:562:MET:HE3	1:B:566:ALA:HB2	1.66	0.77
1:B:985:TYR:HE1	1:B:1207:VAL:HG13	1.50	0.77
1:D:826:ARG:HG2	1:D:826:ARG:NH1	1.99	0.77
1:D:1369:THR:C	1:D:1389:GLY:O	2.28	0.77
1:F:249:THR:HG22	1:F:250:ARG:HG2	1.67	0.77
1:F:580:GLU:O	1:F:584:ASP:OD1	2.03	0.77
2:G:321:ARG:CB	2:G:351:GLU:HG2	2.15	0.77
2:H:144:ARG:HB3	2:H:169:LYS:O	1.84	0.77
2:I:321:ARG:CB	2:I:351:GLU:HG2	2.15	0.77
2:I:349:ALA:HB3	2:I:350:PRO:HD3	1.66	0.77
2:J:144:ARG:HB3	2:J:169:LYS:O	1.84	0.77
2:J:465:HIS:O	2:J:469:LYS:HG2	1.83	0.77
2:L:164:GLU:OE1	2:L:207:LEU:HA	1.85	0.77
2:L:317:LYS:CG	2:L:345:ILE:HD12	2.14	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:430:LYS:HD2	2:L:456:ASP:O	1.85	0.77
1:A:447:LEU:HD21	1:A:674:ALA:CA	2.13	0.77
1:A:1228:LYS:HB3	1:E:901:ASP:OD1	1.85	0.77
1:A:1395:TYR:CE1	1:A:1397:LEU:HD21	2.20	0.77
1:D:1227:GLU:HA	1:F:900:GLY:O	1.83	0.77
1:E:782:ARG:NE	2:L:53:PRO:HD3	2.00	0.77
1:E:1317:THR:HG22	1:E:1318:ASN:N	2.00	0.77
2:I:430:LYS:HD2	2:I:456:ASP:O	1.85	0.77
2:J:321:ARG:HB2	2:J:351:GLU:HA	1.64	0.77
2:J:350:PRO:HD2	2:J:374:ALA:N	2.00	0.77
2:K:71:LEU:HG	2:K:79:GLU:CB	2.13	0.77
2:K:92:GLU:OE1	2:K:199:VAL:HG22	1.83	0.77
2:K:321:ARG:CB	2:K:351:GLU:HG2	2.15	0.77
2:L:71:LEU:HG	2:L:79:GLU:CB	2.13	0.77
2:L:257:ASN:CG	2:L:394:LEU:HA	2.08	0.77
1:B:1131:THR:HG22	1:B:1134:LYS:H	1.49	0.77
1:D:531:ASN:OD1	1:D:533:LEU:HB2	1.83	0.77
1:D:875:MET:HE1	1:D:1139:PHE:CD2	2.20	0.77
1:F:295:LYS:HD2	1:F:390:MET:HE3	1.67	0.77
1:F:1102:CYS:HG	6:F:2476:F3S:FE1	0.99	0.77
2:G:430:LYS:HD2	2:G:456:ASP:O	1.85	0.77
2:H:71:LEU:HG	2:H:79:GLU:CB	2.13	0.77
2:K:319:LEU:CA	2:K:345:ILE:HD11	2.15	0.77
2:K:321:ARG:CA	2:K:351:GLU:HA	2.14	0.77
2:L:321:ARG:CB	2:L:351:GLU:HG2	2.15	0.77
1:B:182:MET:HE3	1:B:217:PRO:HB2	0.79	0.77
1:B:580:GLU:O	1:B:584:ASP:OD1	2.03	0.77
1:B:731:SER:CA	1:B:748:GLY:H	1.98	0.77
1:B:1369:THR:C	1:B:1389:GLY:O	2.28	0.77
1:D:826:ARG:NH1	1:D:1046:GLU:OE2	2.18	0.77
1:F:1105:VAL:HG23	2:I:54:PHE:CE1	2.20	0.77
1:F:1369:THR:C	1:F:1389:GLY:O	2.28	0.77
2:H:350:PRO:HD2	2:H:374:ALA:N	2.00	0.77
2:I:144:ARG:HB3	2:I:169:LYS:O	1.84	0.77
1:C:901:ASP:OD1	1:E:1228:LYS:HB3	1.85	0.77
1:C:1220:ARG:HG3	1:C:1224:GLU:HG3	1.67	0.77
1:D:417:ASP:C	1:D:419:TRP:N	2.38	0.77
1:D:505:GLN:NE2	1:D:1001:VAL:H	1.83	0.77
1:D:782:ARG:CD	2:H:53:PRO:HD2	1.99	0.77
1:E:528:ASN:HB3	1:E:542:LEU:HD22	1.66	0.77
1:E:1290:GLY:O	1:E:1291:ASP:HB3	1.82	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:731:SER:CA	1:F:748:GLY:H	1.98	0.77
1:F:1043:LEU:HD23	1:F:1044:PRO:HD2	1.67	0.77
2:H:225:SER:CB	2:H:227:PRO:HD2	2.14	0.77
2:H:353:PHE:CZ	2:H:370:GLY:HA3	2.19	0.77
2:I:164:GLU:OE1	2:I:207:LEU:HA	1.85	0.77
2:J:321:ARG:CB	2:J:351:GLU:HG2	2.15	0.77
2:L:353:PHE:CZ	2:L:370:GLY:HA3	2.19	0.77
1:A:207:TYR:N	1:A:207:TYR:CD1	2.54	0.76
1:A:213:THR:HB	1:A:1008:THR:HG23	1.66	0.76
1:A:465:LEU:C	1:A:465:LEU:HD12	2.08	0.76
1:A:959:SER:HA	1:A:1369:THR:HG21	1.67	0.76
1:B:1105:VAL:HG23	2:G:54:PHE:CE1	2.20	0.76
1:D:515:ARG:HD2	1:D:1367:TYR:HE1	1.49	0.76
1:D:572:THR:CG2	1:D:573:PHE:N	2.47	0.76
1:D:820:ARG:HB3	1:D:821:PRO:CD	2.15	0.76
1:D:985:TYR:HE1	1:D:1207:VAL:HG13	1.50	0.76
1:E:355:TYR:CD1	1:E:355:TYR:C	2.61	0.76
1:F:153:ARG:NH2	1:F:263:LEU:O	2.18	0.76
1:F:985:TYR:HE1	1:F:1207:VAL:HG13	1.50	0.76
2:G:97:ILE:HD11	2:G:450:VAL:CG1	2.15	0.76
2:G:423:LEU:CD2	2:G:443:ILE:HD13	2.11	0.76
2:H:97:ILE:HD11	2:H:450:VAL:CG1	2.15	0.76
2:H:430:LYS:HD2	2:H:456:ASP:O	1.85	0.76
2:I:97:ILE:HD11	2:I:450:VAL:CG1	2.15	0.76
2:K:181:ARG:CG	2:K:187:VAL:HG11	2.15	0.76
1:A:781:PHE:O	2:J:52:VAL:HB	1.85	0.76
1:A:1356:VAL:HG22	1:A:1374:VAL:HG21	1.67	0.76
1:B:820:ARG:HB3	1:B:821:PRO:CD	2.16	0.76
1:B:875:MET:HE1	1:B:1139:PHE:CD2	2.20	0.76
1:B:1043:LEU:HD23	1:B:1044:PRO:HD2	1.67	0.76
1:B:1445:ASN:HB2	2:H:373:ASP:OD2	1.86	0.76
1:D:1084:MET:SD	1:D:1168:LEU:HD21	2.25	0.76
1:E:787:ARG:HH12	1:E:821:PRO:HB2	1.47	0.76
1:F:1131:THR:HG22	1:F:1134:LYS:H	1.49	0.76
2:I:350:PRO:HD2	2:I:374:ALA:N	2.00	0.76
2:K:97:ILE:HD11	2:K:450:VAL:CG1	2.15	0.76
2:K:110:ILE:CG1	2:K:117:ALA:HA	2.16	0.76
2:L:319:LEU:CA	2:L:345:ILE:HD11	2.15	0.76
2:L:349:ALA:HB3	2:L:350:PRO:HD3	1.66	0.76
1:A:505:GLN:HE21	1:A:1001:VAL:H	1.33	0.76
1:B:826:ARG:NH1	1:B:1046:GLU:OE2	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:950:THR:CG2	1:C:951:GLU:H	1.98	0.76
1:D:1318:ASN:HD22	1:D:1318:ASN:H	1.30	0.76
1:E:24:ALA:HB1	1:E:207:TYR:CE2	2.19	0.76
1:E:1356:VAL:HG22	1:E:1374:VAL:HG21	1.67	0.76
1:F:704:LEU:O	1:F:705:LEU:C	2.25	0.76
2:G:353:PHE:CZ	2:G:370:GLY:HA3	2.19	0.76
2:H:153:ILE:CD1	8:H:484:FAD:C2A	2.61	0.76
2:J:97:ILE:HD11	2:J:450:VAL:CG1	2.15	0.76
2:J:353:PHE:CZ	2:J:370:GLY:HA3	2.19	0.76
1:A:782:ARG:NE	2:J:53:PRO:HD3	2.00	0.76
1:A:890:ASP:O	1:A:893:ARG:HB2	1.84	0.76
1:A:1104:MET:C	2:J:54:PHE:HZ	1.91	0.76
1:C:643:ASN:HB3	1:C:665:THR:CG2	2.16	0.76
1:E:236:THR:CG2	1:E:328:ASP:N	2.45	0.76
1:F:426:LEU:CD1	1:F:558:MET:HG3	2.16	0.76
2:G:110:ILE:CG1	2:G:117:ALA:HA	2.16	0.76
2:G:418:THR:HA	2:G:424:LEU:HD21	1.67	0.76
2:H:110:ILE:CG1	2:H:117:ALA:HA	2.15	0.76
2:H:181:ARG:CG	2:H:187:VAL:HG11	2.15	0.76
2:H:317:LYS:HE3	2:H:345:ILE:CG2	2.15	0.76
2:J:321:ARG:CA	2:J:351:GLU:HA	2.14	0.76
2:K:164:GLU:OE1	2:K:207:LEU:HA	1.85	0.76
2:L:299:ASP:HA	2:L:333:GLU:OE2	1.86	0.76
1:A:413:LEU:O	1:A:414:LYS:HD2	1.85	0.76
1:B:551:THR:OG1	1:B:554:GLU:HG2	1.85	0.76
1:B:782:ARG:HD3	2:G:53:PRO:CD	2.10	0.76
1:B:826:ARG:HG2	1:B:826:ARG:NH1	1.99	0.76
1:C:298:LEU:HD23	1:C:324:MET:HG2	1.68	0.76
1:C:824:GLN:CA	1:C:824:GLN:HE21	1.99	0.76
1:D:551:THR:OG1	1:D:554:GLU:HG2	1.85	0.76
1:E:298:LEU:HD23	1:E:324:MET:HG2	1.68	0.76
1:E:643:ASN:HB3	1:E:665:THR:CG2	2.16	0.76
1:F:1084:MET:SD	1:F:1168:LEU:HD21	2.25	0.76
2:G:244:LYS:HD2	2:G:404:GLU:CB	2.13	0.76
2:H:316:VAL:HB	2:H:342:VAL:HG22	1.68	0.76
2:I:146:LEU:O	2:I:171:TYR:HA	1.86	0.76
2:J:181:ARG:CG	2:J:187:VAL:HG11	2.15	0.76
2:K:144:ARG:HB3	2:K:169:LYS:O	1.84	0.76
2:L:321:ARG:CA	2:L:351:GLU:HA	2.14	0.76
1:A:450:ARG:O	1:A:453:ALA:N	2.19	0.76
1:A:824:GLN:CA	1:A:824:GLN:HE21	1.99	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:505:GLN:NE2	1:B:1001:VAL:H	1.83	0.76
1:B:783:LYS:CA	2:G:57:VAL:HG23	1.96	0.76
1:B:950:THR:CG2	1:B:952:MET:H	1.96	0.76
1:C:113:ASN:HD21	1:C:115:ASP:H	1.31	0.76
1:C:177:ILE:HD13	1:C:179:TYR:HE1	1.49	0.76
1:C:734:LEU:HD11	1:C:738:HIS:HD2	1.46	0.76
1:C:1438:ARG:NE	2:J:376:GLY:C	2.44	0.76
1:D:153:ARG:NH2	1:D:263:LEU:O	2.18	0.76
1:D:658:LEU:HD23	1:D:666:VAL:HG21	1.67	0.76
1:E:734:LEU:HD11	1:E:738:HIS:HD2	1.46	0.76
1:E:829:LEU:HD13	1:E:1168:LEU:HD13	1.67	0.76
1:F:299:VAL:O	1:F:299:VAL:CG1	2.28	0.76
2:H:358:VAL:HG22	2:H:365:VAL:CG1	2.16	0.76
2:I:152:VAL:CG1	2:I:175:VAL:HA	2.12	0.76
2:I:321:ARG:CA	2:I:351:GLU:HA	2.14	0.76
2:I:350:PRO:HG3	2:I:380:PRO:HG3	1.68	0.76
2:I:418:THR:HB	2:I:424:LEU:CD1	2.11	0.76
2:K:316:VAL:HB	2:K:342:VAL:HG22	1.68	0.76
2:K:350:PRO:HG3	2:K:380:PRO:HG3	1.68	0.76
2:L:97:ILE:HD11	2:L:450:VAL:CG1	2.15	0.76
2:L:350:PRO:HG3	2:L:380:PRO:HG3	1.68	0.76
1:C:781:PHE:O	2:K:52:VAL:HB	1.85	0.76
1:D:249:THR:HG22	1:D:250:ARG:HG2	1.67	0.76
1:D:782:ARG:CZ	2:H:51:GLY:CA	1.75	0.76
1:D:1043:LEU:HD23	1:D:1044:PRO:HD2	1.67	0.76
1:D:1105:VAL:HG23	2:H:54:PHE:CE1	2.20	0.76
1:E:1220:ARG:HG3	1:E:1224:GLU:HG3	1.67	0.76
1:F:182:MET:HE3	1:F:217:PRO:HB2	0.78	0.76
1:F:572:THR:CG2	1:F:573:PHE:N	2.47	0.76
2:G:317:LYS:HE3	2:G:345:ILE:CG2	2.15	0.76
2:K:302:MET:CE	2:K:333:GLU:HG3	2.16	0.76
1:A:950:THR:CG2	1:A:951:GLU:H	1.98	0.76
1:B:426:LEU:CD1	1:B:558:MET:HG3	2.16	0.76
1:C:24:ALA:HB1	1:C:207:TYR:CE2	2.19	0.76
1:C:536:ASP:OD1	1:C:538:THR:HG22	1.85	0.76
1:C:890:ASP:O	1:C:893:ARG:HB2	1.84	0.76
1:C:974:ILE:HD11	1:C:983:LEU:CD1	2.13	0.76
1:D:580:GLU:O	1:D:584:ASP:OD1	2.03	0.76
1:E:260:MET:O	1:E:263:LEU:N	2.19	0.76
1:E:513:SER:CB	1:E:520:MET:CE	2.64	0.76
1:E:959:SER:HA	1:E:1369:THR:HG21	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1043:LEU:HD23	1:E:1044:PRO:HD2	1.66	0.76
1:F:260:MET:O	1:F:263:LEU:HB2	1.84	0.76
1:F:529:LEU:HD23	1:F:529:LEU:N	1.92	0.76
1:F:658:LEU:HD23	1:F:666:VAL:HG21	1.67	0.76
2:G:316:VAL:HB	2:G:342:VAL:HG22	1.68	0.76
2:H:302:MET:CE	2:H:333:GLU:HG3	2.16	0.76
2:H:321:ARG:CB	2:H:351:GLU:HG2	2.15	0.76
2:H:350:PRO:HG3	2:H:380:PRO:HG3	1.68	0.76
2:J:146:LEU:O	2:J:171:TYR:HA	1.86	0.76
2:J:153:ILE:CD1	8:J:484:FAD:C2A	2.61	0.76
2:J:317:LYS:CG	2:J:345:ILE:HD12	2.14	0.76
2:K:146:LEU:O	2:K:171:TYR:HA	1.86	0.76
2:L:225:SER:CB	2:L:227:PRO:HD2	2.14	0.76
1:A:452:GLN:CG	1:A:765:ALA:HB2	2.16	0.76
1:A:829:LEU:HD13	1:A:1168:LEU:HD13	1.67	0.76
1:C:959:SER:HA	1:C:1369:THR:HG21	1.67	0.76
1:E:452:GLN:CG	1:E:765:ALA:HB2	2.16	0.76
1:F:505:GLN:NE2	1:F:1001:VAL:H	1.83	0.76
1:F:826:ARG:NH1	1:F:1046:GLU:OE2	2.18	0.76
1:F:875:MET:HE1	1:F:1139:PHE:CD2	2.20	0.76
2:H:132:TRP:CD1	2:H:202:ARG:HB2	2.21	0.76
2:I:302:MET:CE	2:I:333:GLU:HG3	2.16	0.76
2:K:350:PRO:HD2	2:K:374:ALA:N	2.00	0.76
2:L:110:ILE:CG1	2:L:117:ALA:HA	2.15	0.76
1:A:1374:VAL:O	1:A:1375:ILE:CG1	2.34	0.76
1:B:375:ASP:OD2	1:B:377:THR:HB	1.86	0.76
1:B:1114:PRO:HA	2:G:112:GLN:C	1.84	0.76
1:C:900:GLY:HA3	1:E:1263:HIS:CD2	2.20	0.76
1:D:731:SER:CA	1:D:748:GLY:H	1.98	0.76
1:E:213:THR:HB	1:E:1008:THR:HG23	1.66	0.76
1:E:1114:PRO:HA	2:L:112:GLN:C	1.74	0.76
2:G:132:TRP:CD1	2:G:202:ARG:HB2	2.21	0.76
2:G:350:PRO:HG3	2:G:380:PRO:HG3	1.68	0.76
2:G:350:PRO:C	2:G:372:ALA:HB3	2.11	0.76
2:H:321:ARG:CA	2:H:351:GLU:HA	2.14	0.76
2:I:181:ARG:CG	2:I:187:VAL:HG11	2.15	0.76
2:J:319:LEU:CA	2:J:345:ILE:HD11	2.15	0.76
2:K:299:ASP:HA	2:K:333:GLU:OE2	1.86	0.76
1:A:901:ASP:OD1	1:C:1228:LYS:HB3	1.85	0.75
1:C:413:LEU:O	1:C:414:LYS:HD2	1.85	0.75
1:D:1102:CYS:HG	6:D:2476:F3S:FE1	1.01	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1445:ASN:HB2	2:I:373:ASP:OD2	1.86	0.75
1:E:447:LEU:HD13	1:E:670:LEU:HD21	1.65	0.75
1:E:536:ASP:OD1	1:E:538:THR:HG22	1.85	0.75
1:E:1221:PRO:CB	1:E:1229:MET:HE2	2.11	0.75
1:E:1374:VAL:O	1:E:1375:ILE:CG1	2.34	0.75
1:F:710:LYS:CG	1:F:939:GLY:HA3	2.10	0.75
2:G:146:LEU:O	2:G:171:TYR:HA	1.86	0.75
2:G:302:MET:CE	2:G:333:GLU:HG3	2.16	0.75
2:J:299:ASP:HA	2:J:333:GLU:OE2	1.86	0.75
2:J:302:MET:CE	2:J:333:GLU:HG3	2.16	0.75
2:J:316:VAL:HB	2:J:342:VAL:HG22	1.68	0.75
2:J:418:THR:HA	2:J:424:LEU:HD21	1.67	0.75
2:K:350:PRO:C	2:K:372:ALA:HB3	2.12	0.75
2:K:358:VAL:HG22	2:K:365:VAL:CG1	2.16	0.75
2:L:181:ARG:CG	2:L:187:VAL:HG11	2.15	0.75
2:L:350:PRO:C	2:L:372:ALA:HB3	2.12	0.75
1:A:515:ARG:CD	1:A:1367:TYR:HE1	1.96	0.75
1:B:153:ARG:NH2	1:B:263:LEU:O	2.18	0.75
1:B:522:LEU:HD21	1:B:705:LEU:HD21	1.68	0.75
1:C:452:GLN:CG	1:C:765:ALA:HB2	2.16	0.75
1:C:1356:VAL:HG22	1:C:1374:VAL:HG21	1.67	0.75
1:C:1374:VAL:O	1:C:1375:ILE:CG1	2.34	0.75
1:C:1395:TYR:CE1	1:C:1397:LEU:HD21	2.20	0.75
2:H:295:LEU:HD22	2:H:319:LEU:HB3	1.69	0.75
2:H:319:LEU:CA	2:H:345:ILE:HD11	2.15	0.75
2:J:44:ALA:CA	2:J:69:LEU:HD11	2.17	0.75
1:A:236:THR:CG2	1:A:328:ASP:N	2.45	0.75
1:A:536:ASP:OD1	1:A:538:THR:HG22	1.85	0.75
1:C:526:LEU:N	1:C:526:LEU:CD1	2.40	0.75
1:C:782:ARG:NE	2:K:53:PRO:HD3	2.00	0.75
1:C:1413:GLN:HG3	1:C:1414:ARG:O	1.87	0.75
1:E:443:ASP:O	1:E:445:ALA:N	2.20	0.75
1:E:643:ASN:HB3	1:E:665:THR:HG22	1.68	0.75
2:I:319:LEU:CA	2:I:345:ILE:HD11	2.15	0.75
2:J:110:ILE:CG1	2:J:117:ALA:HA	2.16	0.75
2:L:291:HIS:NE2	2:L:293:VAL:HG23	2.02	0.75
2:L:302:MET:CE	2:L:333:GLU:HG3	2.16	0.75
1:A:643:ASN:HB3	1:A:665:THR:CG2	2.16	0.75
1:B:1039:LYS:C	1:B:1040:PHE:CD1	2.65	0.75
1:C:826:ARG:NH1	1:C:1046:GLU:OE2	2.19	0.75
1:C:1317:THR:HG22	1:C:1318:ASN:N	2.00	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:175:ARG:HH11	1:D:175:ARG:HG3	1.52	0.75
1:D:375:ASP:OD2	1:D:377:THR:HB	1.86	0.75
1:E:826:ARG:NH1	1:E:1046:GLU:OE2	2.19	0.75
1:F:551:THR:OG1	1:F:554:GLU:HG2	1.85	0.75
1:F:820:ARG:HB3	1:F:821:PRO:CD	2.16	0.75
1:F:826:ARG:HG2	1:F:826:ARG:NH1	1.99	0.75
2:G:152:VAL:CG1	2:G:175:VAL:HA	2.12	0.75
2:G:225:SER:CB	2:G:227:PRO:HD2	2.14	0.75
2:G:299:ASP:HA	2:G:333:GLU:OE2	1.86	0.75
2:H:44:ALA:CA	2:H:69:LEU:HD11	2.17	0.75
2:H:418:THR:HA	2:H:424:LEU:HD21	1.67	0.75
2:I:44:ALA:CA	2:I:69:LEU:HD11	2.17	0.75
2:I:100:GLN:HB3	2:I:105:GLU:CG	2.17	0.75
2:J:132:TRP:CD1	2:J:202:ARG:HB2	2.21	0.75
2:J:358:VAL:HG22	2:J:365:VAL:CG1	2.16	0.75
2:K:225:SER:CB	2:K:227:PRO:HD2	2.14	0.75
2:K:430:LYS:HD2	2:K:456:ASP:O	1.85	0.75
2:L:146:LEU:O	2:L:171:TYR:HA	1.86	0.75
1:A:999:LYS:HG3	1:A:1022:LEU:CD2	2.17	0.75
1:A:1394:VAL:HG12	1:A:1394:VAL:O	1.87	0.75
1:B:236:THR:HG21	1:B:328:ASP:N	2.00	0.75
1:C:260:MET:O	1:C:263:LEU:N	2.19	0.75
1:C:443:ASP:O	1:C:445:ALA:N	2.20	0.75
1:C:643:ASN:HB3	1:C:665:THR:HG22	1.68	0.75
1:D:529:LEU:N	1:D:529:LEU:HD23	1.92	0.75
1:F:452:GLN:CG	1:F:765:ALA:HB2	2.17	0.75
1:F:1445:ASN:HB2	2:G:373:ASP:OD2	1.86	0.75
2:I:110:ILE:CG1	2:I:117:ALA:HA	2.16	0.75
2:I:350:PRO:C	2:I:372:ALA:HB3	2.12	0.75
2:K:295:LEU:HD22	2:K:319:LEU:HB3	1.69	0.75
1:A:1317:THR:HG22	1:A:1318:ASN:N	2.00	0.75
1:D:452:GLN:CG	1:D:765:ALA:HB2	2.17	0.75
1:E:375:ASP:OD2	1:E:377:THR:CB	2.26	0.75
1:E:1438:ARG:NE	2:K:376:GLY:C	2.44	0.75
2:G:201:GLU:O	2:G:205:LYS:HD3	1.87	0.75
2:G:295:LEU:HD22	2:G:319:LEU:HB3	1.69	0.75
2:G:388:PHE:HD2	2:G:390:VAL:HG13	1.52	0.75
2:J:100:GLN:HB3	2:J:105:GLU:CG	2.17	0.75
2:K:44:ALA:CA	2:K:69:LEU:HD11	2.17	0.75
2:K:201:GLU:O	2:K:205:LYS:HD3	1.87	0.75
2:K:306:ARG:HD3	2:K:336:HIS:HB3	1.69	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:44:ALA:CA	2:L:69:LEU:HD11	2.17	0.75
2:L:132:TRP:CD1	2:L:202:ARG:HB2	2.21	0.75
2:L:295:LEU:HD22	2:L:319:LEU:HB3	1.69	0.75
2:L:350:PRO:HD2	2:L:374:ALA:N	2.00	0.75
1:A:260:MET:O	1:A:263:LEU:N	2.19	0.75
1:A:1220:ARG:HG3	1:A:1224:GLU:HG3	1.67	0.75
1:A:1413:GLN:HG3	1:A:1414:ARG:O	1.87	0.75
1:B:1084:MET:SD	1:B:1168:LEU:HD21	2.25	0.75
1:C:139:VAL:HG11	1:C:143:GLN:CB	2.17	0.75
1:C:450:ARG:O	1:C:453:ALA:N	2.19	0.75
1:C:513:SER:CB	1:C:520:MET:CE	2.64	0.75
1:E:413:LEU:O	1:E:414:LYS:HD2	1.85	0.75
1:E:515:ARG:HD2	1:E:1367:TYR:HE1	1.46	0.75
1:E:862:ALA:O	1:E:1118:CYS:CB	2.35	0.75
1:F:317:ILE:HG22	1:F:321:ASN:HD21	1.52	0.75
1:F:438:GLU:OE1	1:F:672:GLN:NE2	2.20	0.75
2:G:317:LYS:HG3	2:G:345:ILE:HD12	1.68	0.75
2:H:350:PRO:C	2:H:372:ALA:HB3	2.12	0.75
2:I:429:THR:HG21	2:I:431:MET:CE	2.12	0.75
2:K:132:TRP:CD1	2:K:202:ARG:HB2	2.21	0.75
2:K:291:HIS:NE2	2:K:293:VAL:HG23	2.02	0.75
1:A:139:VAL:HG11	1:A:143:GLN:CB	2.17	0.75
1:C:60:LYS:O	1:C:63:GLY:N	2.19	0.75
2:G:80:ALA:CB	2:G:127:ILE:HG12	2.17	0.75
2:G:291:HIS:NE2	2:G:293:VAL:HG23	2.02	0.75
2:H:271:VAL:HG11	2:H:284:SER:C	2.12	0.75
2:K:165:GLU:HB3	2:K:169:LYS:HZ3	1.52	0.75
1:A:1438:ARG:NE	2:L:376:GLY:C	2.44	0.75
1:B:139:VAL:CG1	1:B:143:GLN:CB	2.65	0.75
1:B:175:ARG:HG3	1:B:175:ARG:HH11	1.52	0.75
1:D:426:LEU:CD1	1:D:558:MET:HG3	2.16	0.75
1:E:1289:MET:H	1:E:1289:MET:HE3	1.52	0.75
1:E:1394:VAL:HG12	1:E:1394:VAL:O	1.87	0.75
2:G:44:ALA:CA	2:G:69:LEU:HD11	2.17	0.75
2:H:306:ARG:HD3	2:H:336:HIS:HB3	1.69	0.75
2:J:350:PRO:HG3	2:J:380:PRO:HG3	1.68	0.75
2:J:451:VAL:HA	2:J:454:ILE:CG2	2.17	0.75
2:L:418:THR:HA	2:L:424:LEU:HD21	1.67	0.75
1:B:59:VAL:CG2	1:B:105:TYR:CD2	2.70	0.74
1:D:1084:MET:SD	1:D:1168:LEU:CD2	2.75	0.74
1:E:450:ARG:O	1:E:453:ALA:N	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:999:LYS:HG3	1:E:1022:LEU:CD2	2.17	0.74
1:F:375:ASP:OD2	1:F:377:THR:HB	1.86	0.74
2:G:358:VAL:HG22	2:G:365:VAL:CG1	2.16	0.74
2:G:367:ILE:HD13	2:G:368:HIS:N	2.02	0.74
2:I:80:ALA:CB	2:I:127:ILE:HG12	2.17	0.74
2:I:299:ASP:HA	2:I:333:GLU:OE2	1.86	0.74
2:J:317:LYS:HG3	2:J:345:ILE:HD12	1.68	0.74
2:K:317:LYS:HE3	2:K:345:ILE:CG2	2.15	0.74
1:A:298:LEU:HD23	1:A:324:MET:HG2	1.68	0.74
1:A:826:ARG:NH1	1:A:1046:GLU:OE2	2.19	0.74
1:A:900:GLY:HA2	1:C:1226:GLY:O	1.87	0.74
1:D:522:LEU:HD21	1:D:705:LEU:HD21	1.68	0.74
1:E:528:ASN:CB	1:E:542:LEU:HD22	2.17	0.74
1:E:727:ALA:HB3	1:E:744:SER:HB2	1.69	0.74
1:E:824:GLN:CA	1:E:824:GLN:HE21	1.99	0.74
1:E:950:THR:CG2	1:E:951:GLU:H	1.98	0.74
1:E:1394:VAL:HG11	1:E:1401:LEU:CD2	2.17	0.74
1:F:139:VAL:CG1	1:F:143:GLN:CB	2.65	0.74
1:F:787:ARG:HH12	1:F:821:PRO:CG	2.00	0.74
2:G:350:PRO:HD2	2:G:374:ALA:N	2.00	0.74
2:H:451:VAL:HA	2:H:454:ILE:CG2	2.17	0.74
2:I:132:TRP:CD1	2:I:202:ARG:HB2	2.21	0.74
2:I:295:LEU:HD22	2:I:319:LEU:HB3	1.69	0.74
2:I:423:LEU:CD2	2:I:443:ILE:HD13	2.11	0.74
2:I:451:VAL:HA	2:I:454:ILE:CG2	2.17	0.74
2:L:80:ALA:CB	2:L:127:ILE:HG12	2.17	0.74
2:L:100:GLN:HB3	2:L:105:GLU:CG	2.17	0.74
1:A:536:ASP:OD1	1:A:536:ASP:O	2.05	0.74
1:A:824:GLN:HA	1:A:824:GLN:NE2	2.01	0.74
1:A:902:ASN:HB2	1:C:1227:GLU:HG3	1.59	0.74
1:A:1131:THR:HB	1:A:1134:LYS:HG3	1.68	0.74
1:B:731:SER:HA	1:B:747:SER:CA	2.17	0.74
1:B:1289:MET:CE	1:B:1289:MET:HB2	2.17	0.74
1:C:862:ALA:O	1:C:1118:CYS:CB	2.35	0.74
1:C:1131:THR:HG22	1:C:1133:GLU:N	2.02	0.74
1:C:1394:VAL:HG12	1:C:1394:VAL:O	1.87	0.74
1:D:1263:HIS:CE1	1:F:900:GLY:N	2.20	0.74
1:E:207:TYR:N	1:E:207:TYR:CD1	2.54	0.74
1:E:728:ILE:HD12	1:E:1047:MET:CE	2.17	0.74
1:F:838:VAL:HG12	1:F:839:PRO:N	2.02	0.74
2:G:92:GLU:HG2	2:G:128:ASN:ND2	2.03	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:271:VAL:HG11	2:G:284:SER:C	2.12	0.74
2:H:146:LEU:O	2:H:171:TYR:HA	1.86	0.74
2:I:291:HIS:NE2	2:I:293:VAL:HG23	2.02	0.74
2:I:418:THR:HA	2:I:424:LEU:HD21	1.67	0.74
2:I:469:LYS:HD2	2:I:476:VAL:HB	1.69	0.74
2:J:271:VAL:HG11	2:J:284:SER:C	2.12	0.74
2:J:350:PRO:C	2:J:372:ALA:HB3	2.11	0.74
2:L:92:GLU:HG2	2:L:128:ASN:ND2	2.03	0.74
2:L:367:ILE:HD13	2:L:368:HIS:N	2.02	0.74
1:A:734:LEU:HD11	1:A:738:HIS:HD2	1.46	0.74
1:A:877:ARG:CG	1:C:1230:GLN:N	2.51	0.74
1:A:900:GLY:HA3	1:C:1263:HIS:CD2	2.20	0.74
1:C:207:TYR:CD1	1:C:207:TYR:N	2.54	0.74
1:C:877:ARG:CG	1:E:1230:GLN:N	2.50	0.74
1:C:999:LYS:HG3	1:C:1022:LEU:CD2	2.17	0.74
1:C:1425:LYS:HD3	1:C:1447:TRP:NE1	2.03	0.74
1:D:731:SER:HA	1:D:747:SER:CA	2.17	0.74
1:D:1289:MET:CE	1:D:1289:MET:HB2	2.17	0.74
2:G:182:MET:CE	2:G:216:PRO:HG3	2.17	0.74
2:J:295:LEU:HD22	2:J:319:LEU:HB3	1.69	0.74
2:J:306:ARG:HD3	2:J:336:HIS:HB3	1.69	0.74
2:K:80:ALA:CB	2:K:127:ILE:HG12	2.17	0.74
2:K:182:MET:CE	2:K:216:PRO:HG3	2.17	0.74
2:K:271:VAL:HG11	2:K:284:SER:C	2.12	0.74
2:K:317:LYS:HG3	2:K:345:ILE:HD12	1.68	0.74
2:L:316:VAL:HB	2:L:342:VAL:HG22	1.68	0.74
1:A:513:SER:CB	1:A:520:MET:CE	2.64	0.74
1:A:1263:HIS:CD2	1:E:900:GLY:HA3	2.20	0.74
1:A:1394:VAL:HG11	1:A:1401:LEU:CD2	2.17	0.74
1:B:317:ILE:HG22	1:B:321:ASN:HD21	1.52	0.74
1:B:658:LEU:HD23	1:B:666:VAL:HG21	1.67	0.74
1:C:515:ARG:HD2	1:C:1367:TYR:CZ	2.22	0.74
1:C:536:ASP:OD1	1:C:536:ASP:O	2.05	0.74
1:C:829:LEU:HD13	1:C:1168:LEU:HD13	1.67	0.74
1:E:731:SER:CA	1:E:748:GLY:H	2.01	0.74
1:E:824:GLN:HA	1:E:824:GLN:NE2	2.01	0.74
1:F:584:ASP:OD1	1:F:584:ASP:N	2.14	0.74
2:G:451:VAL:HA	2:G:454:ILE:CG2	2.17	0.74
2:K:186:LEU:HD21	2:K:200:VAL:HB	1.69	0.74
1:A:295:LYS:CE	1:A:299:VAL:HG12	2.18	0.74
1:A:731:SER:CA	1:A:748:GLY:H	2.01	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:731:SER:CA	1:C:748:GLY:H	2.01	0.74
1:D:438:GLU:OE1	1:D:672:GLN:NE2	2.20	0.74
1:E:1460:LYS:O	1:E:1462:MET:N	2.21	0.74
2:H:197:LYS:CE	2:H:275:ASP:H	2.01	0.74
2:H:201:GLU:O	2:H:205:LYS:HD3	1.87	0.74
2:H:291:HIS:NE2	2:H:293:VAL:HG23	2.02	0.74
2:H:317:LYS:HG3	2:H:345:ILE:HD12	1.68	0.74
2:H:367:ILE:HD13	2:H:368:HIS:N	2.02	0.74
2:H:430:LYS:HE2	2:H:456:ASP:HB3	1.69	0.74
2:I:271:VAL:HG11	2:I:284:SER:C	2.12	0.74
2:I:358:VAL:HG22	2:I:365:VAL:CG1	2.16	0.74
2:J:367:ILE:HD13	2:J:368:HIS:N	2.02	0.74
2:K:244:LYS:HD2	2:K:404:GLU:CB	2.13	0.74
2:K:367:ILE:HD13	2:K:368:HIS:N	2.02	0.74
2:K:388:PHE:HD2	2:K:390:VAL:HG13	1.52	0.74
2:K:430:LYS:HE2	2:K:456:ASP:HB3	1.69	0.74
2:L:271:VAL:HG11	2:L:284:SER:C	2.12	0.74
1:A:290:THR:CG2	1:A:291:ALA:N	2.51	0.74
1:A:1289:MET:H	1:A:1289:MET:HE3	1.52	0.74
1:B:787:ARG:HH12	1:B:821:PRO:CG	2.00	0.74
1:C:900:GLY:HA2	1:E:1226:GLY:O	1.87	0.74
1:D:59:VAL:CG2	1:D:105:TYR:CD2	2.70	0.74
1:D:139:VAL:CG1	1:D:143:GLN:CB	2.65	0.74
1:D:787:ARG:HH12	1:D:821:PRO:CG	2.00	0.74
1:D:1039:LYS:C	1:D:1040:PHE:CD1	2.65	0.74
1:E:1131:THR:HB	1:E:1134:LYS:HG3	1.68	0.74
1:F:59:VAL:CG2	1:F:105:TYR:CD2	2.70	0.74
1:F:783:LYS:HE2	2:I:57:VAL:CG1	2.17	0.74
2:G:144:ARG:HD3	2:G:465:HIS:CE1	2.23	0.74
2:H:299:ASP:HA	2:H:333:GLU:OE2	1.86	0.74
2:K:92:GLU:HG2	2:K:128:ASN:ND2	2.03	0.74
2:K:454:ILE:HD13	2:K:454:ILE:O	1.88	0.74
2:L:358:VAL:HG22	2:L:365:VAL:CG1	2.16	0.74
2:L:469:LYS:HD2	2:L:476:VAL:HB	1.69	0.74
1:A:515:ARG:HD2	1:A:1367:TYR:CZ	2.22	0.74
1:A:1230:GLN:N	1:E:877:ARG:CG	2.51	0.74
1:B:452:GLN:CG	1:B:765:ALA:HB2	2.17	0.74
1:B:959:SER:HA	1:B:1369:THR:HG23	1.69	0.74
1:B:1084:MET:SD	1:B:1168:LEU:CD2	2.75	0.74
1:C:528:ASN:CB	1:C:542:LEU:HD22	2.18	0.74
1:C:727:ALA:HB3	1:C:744:SER:HB2	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:728:ILE:HD12	1:C:1047:MET:CE	2.17	0.74
1:C:1391:MET:CE	1:C:1458:VAL:CG2	2.56	0.74
1:D:317:ILE:HG22	1:D:321:ASN:HD21	1.52	0.74
1:D:528:ASN:C	1:D:529:LEU:HD23	2.13	0.74
1:E:1131:THR:HG22	1:E:1133:GLU:N	2.02	0.74
1:E:1413:GLN:HG3	1:E:1414:ARG:O	1.87	0.74
1:F:146:LEU:HD12	1:F:146:LEU:O	1.88	0.74
1:F:746:ILE:HG22	1:F:747:SER:O	1.88	0.74
2:G:306:ARG:HD3	2:G:336:HIS:HB3	1.69	0.74
2:H:132:TRP:HD1	2:H:202:ARG:HD2	1.53	0.74
2:H:321:ARG:C	2:H:351:GLU:HA	2.13	0.74
2:I:316:VAL:HB	2:I:342:VAL:HG22	1.68	0.74
2:I:317:LYS:HG3	2:I:345:ILE:HD12	1.68	0.74
2:I:367:ILE:HD13	2:I:368:HIS:N	2.02	0.74
2:J:80:ALA:CB	2:J:127:ILE:HG12	2.17	0.74
2:K:197:LYS:CE	2:K:275:ASP:H	2.01	0.74
2:K:262:LEU:HB2	2:K:401:PHE:HE2	1.53	0.74
2:K:469:LYS:HD2	2:K:476:VAL:HB	1.69	0.74
2:L:145:GLU:OE1	2:L:469:LYS:HA	1.88	0.74
2:L:388:PHE:HD2	2:L:390:VAL:HG13	1.52	0.74
1:A:443:ASP:O	1:A:445:ALA:N	2.20	0.74
1:B:780:ARG:HH21	1:B:1105:VAL:HG23	1.53	0.74
1:D:146:LEU:O	1:D:146:LEU:HD12	1.88	0.74
1:D:746:ILE:HG22	1:D:747:SER:O	1.88	0.74
1:E:177:ILE:HD13	1:E:179:TYR:HE1	1.49	0.74
1:E:536:ASP:OD1	1:E:536:ASP:O	2.05	0.74
1:E:1391:MET:CE	1:E:1458:VAL:CG2	2.56	0.74
1:F:450:ARG:O	1:F:453:ALA:N	2.20	0.74
1:F:465:LEU:C	1:F:465:LEU:HD12	2.12	0.74
1:F:753:GLY:O	1:F:754:ILE:C	2.25	0.74
1:F:1131:THR:HG22	1:F:1133:GLU:N	2.03	0.74
1:F:1289:MET:CE	1:F:1289:MET:HB2	2.17	0.74
2:G:164:GLU:HB2	2:G:207:LEU:HD22	1.70	0.74
2:H:145:GLU:OE1	2:H:469:LYS:HA	1.88	0.74
2:I:144:ARG:HD3	2:I:465:HIS:CE1	2.23	0.74
2:J:71:LEU:HD11	2:J:76:ARG:O	1.88	0.74
2:J:100:GLN:HE21	2:J:100:GLN:HA	1.53	0.74
2:J:145:GLU:OE1	2:J:469:LYS:HA	1.88	0.74
2:J:182:MET:CE	2:J:216:PRO:HG3	2.17	0.74
1:C:1131:THR:HB	1:C:1134:LYS:HG3	1.68	0.74
1:F:528:ASN:C	1:F:529:LEU:HD23	2.13	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:731:SER:HA	1:F:747:SER:CA	2.17	0.74
2:G:201:GLU:HG3	2:G:205:LYS:CE	2.18	0.74
2:G:430:LYS:HE2	2:G:456:ASP:HB3	1.69	0.74
2:I:71:LEU:HD11	2:I:76:ARG:O	1.88	0.74
2:I:100:GLN:HA	2:I:100:GLN:HE21	1.53	0.74
2:I:186:LEU:HD21	2:I:200:VAL:HB	1.69	0.74
2:K:144:ARG:HD3	2:K:465:HIS:CE1	2.23	0.74
1:A:643:ASN:HB3	1:A:665:THR:HG22	1.68	0.73
1:A:1425:LYS:HD3	1:A:1447:TRP:NE1	2.03	0.73
1:B:1076:GLY:HA3	1:B:1145:GLU:CG	2.17	0.73
1:C:781:PHE:CD2	2:K:57:VAL:HG21	2.23	0.73
1:C:824:GLN:HA	1:C:824:GLN:NE2	2.01	0.73
1:C:1289:MET:HE3	1:C:1289:MET:H	1.52	0.73
1:D:820:ARG:CB	1:D:821:PRO:CD	2.66	0.73
1:E:643:ASN:HD22	1:E:665:THR:CB	2.01	0.73
1:F:214:ASN:O	1:F:1015:LYS:HE2	1.88	0.73
1:F:1084:MET:SD	1:F:1168:LEU:CD2	2.75	0.73
2:G:197:LYS:CE	2:G:275:ASP:H	2.01	0.73
2:H:100:GLN:HB3	2:H:105:GLU:CG	2.17	0.73
2:H:182:MET:CE	2:H:216:PRO:HG3	2.17	0.73
2:H:366:ARG:HE	2:H:391:GLN:CG	2.01	0.73
2:H:454:ILE:HD13	2:H:454:ILE:O	1.88	0.73
2:I:92:GLU:HG2	2:I:128:ASN:ND2	2.03	0.73
2:I:277:VAL:HG12	2:I:279:ALA:N	2.03	0.73
2:J:186:LEU:HD21	2:J:200:VAL:HB	1.69	0.73
2:J:197:LYS:CE	2:J:275:ASP:H	2.01	0.73
2:J:469:LYS:HD2	2:J:476:VAL:HB	1.69	0.73
2:K:418:THR:HA	2:K:424:LEU:HD21	1.67	0.73
2:L:182:MET:CE	2:L:216:PRO:HG3	2.17	0.73
2:L:277:VAL:HG12	2:L:279:ALA:N	2.03	0.73
2:L:317:LYS:HG3	2:L:345:ILE:HD12	1.68	0.73
2:L:321:ARG:C	2:L:351:GLU:HA	2.13	0.73
1:A:189:THR:HG22	1:A:190:THR:N	2.04	0.73
1:A:643:ASN:HD22	1:A:665:THR:CB	2.01	0.73
1:A:728:ILE:HD12	1:A:1047:MET:CE	2.17	0.73
1:D:511:ILE:HG22	1:D:512:ASP:N	2.03	0.73
1:D:959:SER:HA	1:D:1369:THR:HG23	1.69	0.73
1:F:522:LEU:HD21	1:F:705:LEU:HD21	1.68	0.73
2:G:454:ILE:HD13	2:G:454:ILE:O	1.88	0.73
2:H:165:GLU:HB3	2:H:169:LYS:NZ	2.03	0.73
2:I:145:GLU:OE1	2:I:469:LYS:HA	1.88	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:182:MET:CE	2:I:216:PRO:HG3	2.17	0.73
2:J:164:GLU:HB2	2:J:207:LEU:HD22	1.70	0.73
2:J:454:ILE:O	2:J:454:ILE:HD13	1.88	0.73
2:K:321:ARG:C	2:K:351:GLU:HA	2.13	0.73
2:K:451:VAL:HA	2:K:454:ILE:CG2	2.17	0.73
2:L:144:ARG:HD3	2:L:465:HIS:CE1	2.23	0.73
2:L:201:GLU:O	2:L:205:LYS:HD3	1.87	0.73
1:A:528:ASN:CB	1:A:542:LEU:HD22	2.18	0.73
1:B:295:LYS:HD2	1:B:390:MET:CE	2.19	0.73
1:B:528:ASN:C	1:B:529:LEU:HD23	2.13	0.73
1:C:342:VAL:HG13	1:C:392:ALA:HB2	1.69	0.73
1:C:643:ASN:HD22	1:C:665:THR:CB	2.01	0.73
1:D:838:VAL:HG12	1:D:839:PRO:N	2.02	0.73
1:E:515:ARG:HD2	1:E:1367:TYR:CZ	2.22	0.73
1:E:1401:LEU:HD11	1:E:1405:ILE:HB	1.71	0.73
1:F:465:LEU:HD12	1:F:465:LEU:O	1.89	0.73
1:F:602:THR:C	1:F:640:THR:HG22	2.14	0.73
1:F:780:ARG:NH2	1:F:1105:VAL:HG23	2.04	0.73
1:F:1039:LYS:C	1:F:1040:PHE:CD1	2.65	0.73
2:H:469:LYS:HD2	2:H:476:VAL:HB	1.69	0.73
2:I:109:VAL:HG22	7:I:483:SF4:S2	2.28	0.73
2:J:277:VAL:HG12	2:J:279:ALA:N	2.03	0.73
2:J:319:LEU:HA	2:J:345:ILE:HD11	1.70	0.73
2:L:451:VAL:HA	2:L:454:ILE:CG2	2.17	0.73
1:A:850:ARG:HH11	1:A:850:ARG:HG3	1.53	0.73
1:A:1401:LEU:HD11	1:A:1405:ILE:HB	1.71	0.73
1:B:829:LEU:HD13	1:B:1168:LEU:HD13	1.70	0.73
1:B:1131:THR:HG22	1:B:1133:GLU:N	2.03	0.73
1:C:985:TYR:HE1	1:C:1207:VAL:HG13	1.53	0.73
1:D:214:ASN:O	1:D:1015:LYS:HE2	1.88	0.73
1:E:464:ILE:CD1	1:E:779:TYR:CE1	2.71	0.73
1:E:985:TYR:HE1	1:E:1207:VAL:HG13	1.53	0.73
1:F:783:LYS:CE	2:I:57:VAL:CG1	2.36	0.73
2:G:109:VAL:HG22	7:G:483:SF4:S2	2.29	0.73
2:G:145:GLU:OE1	2:G:469:LYS:HA	1.88	0.73
2:G:321:ARG:C	2:G:351:GLU:HA	2.13	0.73
2:H:378:GLN:O	2:H:380:PRO:HD3	1.89	0.73
2:I:264:TYR:OH	2:I:308:ALA:HA	1.89	0.73
2:I:366:ARG:HE	2:I:391:GLN:CG	2.01	0.73
2:J:132:TRP:HD1	2:J:202:ARG:HD2	1.53	0.73
2:K:132:TRP:HD1	2:K:202:ARG:HD2	1.53	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:201:GLU:HG3	2:K:205:LYS:CE	2.18	0.73
2:K:378:GLN:O	2:K:380:PRO:HD3	1.89	0.73
2:L:109:VAL:HG22	7:L:483:SF4:S2	2.29	0.73
2:L:430:LYS:HE2	2:L:456:ASP:HB3	1.69	0.73
1:A:727:ALA:HB3	1:A:744:SER:HB2	1.69	0.73
1:B:438:GLU:OE1	1:B:672:GLN:NE2	2.20	0.73
1:C:295:LYS:CE	1:C:299:VAL:HG12	2.18	0.73
1:C:902:ASN:HB2	1:E:1227:GLU:HG3	1.59	0.73
1:C:1460:LYS:O	1:C:1462:MET:N	2.21	0.73
1:D:182:MET:HE3	1:D:217:PRO:HB2	0.78	0.73
1:D:602:THR:C	1:D:640:THR:HG22	2.14	0.73
1:D:782:ARG:HD3	2:H:53:PRO:CD	2.10	0.73
1:D:783:LYS:CA	2:H:57:VAL:HG23	1.96	0.73
1:D:1131:THR:HG22	1:D:1133:GLU:N	2.03	0.73
1:D:1369:THR:HG22	1:D:1369:THR:O	1.89	0.73
1:F:820:ARG:CB	1:F:821:PRO:CD	2.67	0.73
1:F:959:SER:HA	1:F:1369:THR:HG23	1.69	0.73
1:F:1113:CYS:O	1:F:1115:VAL:N	2.22	0.73
2:G:262:LEU:HB2	2:G:401:PHE:HE2	1.53	0.73
2:H:71:LEU:HD11	2:H:76:ARG:O	1.88	0.73
2:H:92:GLU:HG2	2:H:128:ASN:ND2	2.03	0.73
2:H:244:LYS:HD2	2:H:404:GLU:CB	2.13	0.73
2:H:322:ARG:HD2	2:H:349:ALA:HB1	1.71	0.73
2:I:416:LYS:HE3	2:I:433:ASN:ND2	2.04	0.73
2:J:416:LYS:HE3	2:J:433:ASN:ND2	2.04	0.73
2:K:165:GLU:HB3	2:K:169:LYS:NZ	2.03	0.73
2:L:100:GLN:HA	2:L:100:GLN:HE21	1.53	0.73
2:L:186:LEU:HD21	2:L:200:VAL:HB	1.69	0.73
1:B:465:LEU:C	1:B:465:LEU:HD12	2.12	0.73
1:C:447:LEU:HD12	1:C:447:LEU:C	2.14	0.73
1:C:505:GLN:HE21	1:C:1001:VAL:H	1.33	0.73
1:D:450:ARG:O	1:D:453:ALA:N	2.20	0.73
1:D:665:THR:HG22	1:D:665:THR:O	1.89	0.73
1:E:1447:TRP:CZ2	1:E:1451:VAL:HG22	2.24	0.73
2:G:91:PRO:HD2	2:G:203:ARG:NH2	2.04	0.73
2:G:469:LYS:HD2	2:G:476:VAL:HB	1.69	0.73
2:H:92:GLU:HG2	2:H:128:ASN:OD1	1.89	0.73
2:H:109:VAL:HG22	7:H:483:SF4:S2	2.29	0.73
2:I:201:GLU:O	2:I:205:LYS:HD3	1.87	0.73
2:I:257:ASN:ND2	2:I:364:ALA:HB3	2.04	0.73
2:I:306:ARG:HD3	2:I:336:HIS:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:319:LEU:HA	2:I:345:ILE:HD11	1.70	0.73
2:I:322:ARG:HD2	2:I:349:ALA:HB1	1.71	0.73
2:J:165:GLU:HB3	2:J:169:LYS:NZ	2.03	0.73
2:J:291:HIS:NE2	2:J:293:VAL:HG23	2.02	0.73
2:J:388:PHE:HD2	2:J:390:VAL:HG13	1.52	0.73
2:K:186:LEU:CD1	2:K:200:VAL:HB	2.19	0.73
2:L:164:GLU:HB2	2:L:207:LEU:HD22	1.70	0.73
2:L:383:ILE:HD13	2:L:385:GLY:H	1.54	0.73
1:A:464:ILE:CD1	1:A:779:TYR:CE1	2.71	0.73
1:A:862:ALA:O	1:A:1118:CYS:CB	2.35	0.73
1:C:290:THR:CG2	1:C:291:ALA:N	2.51	0.73
1:C:850:ARG:HH11	1:C:850:ARG:HG3	1.53	0.73
1:F:52:GLN:NE2	1:F:71:LEU:H	1.87	0.73
1:F:731:SER:HA	1:F:748:GLY:N	2.04	0.73
1:F:780:ARG:HH21	1:F:1105:VAL:HG23	1.53	0.73
1:F:1076:GLY:CA	1:F:1145:GLU:HG2	2.18	0.73
1:F:1417:VAL:HG12	1:F:1419:HIS:H	1.54	0.73
2:G:100:GLN:HB3	2:G:105:GLU:CG	2.17	0.73
2:G:186:LEU:CD1	2:G:200:VAL:HB	2.19	0.73
2:G:366:ARG:HE	2:G:391:GLN:CG	2.01	0.73
2:H:100:GLN:HA	2:H:100:GLN:HE21	1.53	0.73
2:H:144:ARG:HD3	2:H:465:HIS:CE1	2.23	0.73
2:H:262:LEU:HB2	2:H:401:PHE:HE2	1.53	0.73
2:I:91:PRO:HD2	2:I:203:ARG:NH2	2.04	0.73
2:K:100:GLN:HB3	2:K:105:GLU:CG	2.17	0.73
2:L:257:ASN:ND2	2:L:364:ALA:HB3	2.04	0.73
2:L:264:TYR:OH	2:L:308:ALA:HA	1.89	0.73
1:A:60:LYS:O	1:A:63:GLY:N	2.19	0.73
1:A:609:GLU:OE2	1:A:645:ARG:HD3	1.88	0.73
1:A:1131:THR:HG22	1:A:1133:GLU:N	2.02	0.73
1:B:214:ASN:O	1:B:1015:LYS:HE2	1.88	0.73
1:B:450:ARG:O	1:B:453:ALA:N	2.20	0.73
1:C:1394:VAL:HG11	1:C:1401:LEU:CD2	2.17	0.73
1:D:52:GLN:NE2	1:D:71:LEU:H	1.87	0.73
1:D:295:LYS:HD2	1:D:390:MET:CE	2.19	0.73
1:D:1417:VAL:HG12	1:D:1419:HIS:H	1.54	0.73
1:F:493:ARG:NH2	1:F:786:ASP:OD1	2.21	0.73
2:I:207:LEU:HG	2:I:212:VAL:HG11	1.70	0.73
2:I:307:THR:O	2:I:310:ARG:HB2	1.88	0.73
2:I:388:PHE:HD2	2:I:390:VAL:HG13	1.52	0.73
2:I:430:LYS:HE2	2:I:456:ASP:HB3	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:92:GLU:HG2	2:J:128:ASN:ND2	2.03	0.73
2:J:264:TYR:OH	2:J:308:ALA:HA	1.89	0.73
2:J:321:ARG:C	2:J:351:GLU:HA	2.13	0.73
2:K:277:VAL:HG12	2:K:279:ALA:N	2.03	0.73
1:A:1226:GLY:O	1:E:900:GLY:HA2	1.87	0.73
1:A:1460:LYS:O	1:A:1462:MET:N	2.21	0.73
1:C:609:GLU:OE2	1:C:645:ARG:HD3	1.88	0.73
1:D:780:ARG:HH21	1:D:1105:VAL:HG23	1.53	0.73
1:D:829:LEU:HD13	1:D:1168:LEU:HD13	1.70	0.73
1:D:1289:MET:HB2	1:D:1289:MET:HE3	1.71	0.73
1:E:295:LYS:CE	1:E:299:VAL:HG12	2.18	0.73
1:E:342:VAL:HG13	1:E:392:ALA:HB2	1.69	0.73
1:E:724:ASN:ND2	1:E:724:ASN:N	2.37	0.73
1:F:175:ARG:HG3	1:F:175:ARG:HH11	1.52	0.73
1:F:838:VAL:CG1	1:F:839:PRO:HD2	2.19	0.73
2:G:277:VAL:HG12	2:G:279:ALA:N	2.03	0.73
2:G:307:THR:O	2:G:310:ARG:HB2	1.88	0.73
2:G:320:TYR:HB2	2:G:346:TRP:CD1	2.24	0.73
2:I:164:GLU:HB2	2:I:207:LEU:HD22	1.70	0.73
2:I:454:ILE:HD13	2:I:454:ILE:O	1.88	0.73
2:J:109:VAL:HG22	7:J:483:SF4:S2	2.29	0.73
2:J:201:GLU:O	2:J:205:LYS:HD3	1.87	0.73
2:J:371:VAL:HG21	2:J:386:SER:HB3	1.71	0.73
2:K:307:THR:O	2:K:310:ARG:HB2	1.88	0.73
1:A:782:ARG:HG3	2:J:52:VAL:HA	0.89	0.73
1:B:525:ARG:HG2	1:B:542:LEU:HD13	1.71	0.73
1:B:753:GLY:O	1:B:754:ILE:C	2.25	0.73
1:B:1113:CYS:O	1:B:1115:VAL:N	2.22	0.73
1:D:417:ASP:C	1:D:419:TRP:H	1.96	0.73
1:D:891:PRO:HA	1:D:894:PHE:CE2	2.24	0.73
1:E:139:VAL:HG11	1:E:143:GLN:CB	2.17	0.73
1:E:1425:LYS:HD3	1:E:1447:TRP:NE1	2.03	0.73
2:G:322:ARG:HG3	2:G:323:ASP:N	2.04	0.73
2:H:277:VAL:HG12	2:H:279:ALA:N	2.03	0.73
2:H:322:ARG:HG3	2:H:323:ASP:N	2.04	0.73
2:I:321:ARG:C	2:I:351:GLU:HA	2.13	0.73
2:I:371:VAL:HG21	2:I:386:SER:HB3	1.71	0.73
2:J:91:PRO:HD2	2:J:203:ARG:NH2	2.04	0.73
2:J:307:THR:O	2:J:310:ARG:HB2	1.88	0.73
2:K:366:ARG:HE	2:K:391:GLN:CG	2.01	0.73
2:K:371:VAL:HG21	2:K:386:SER:HB3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:91:PRO:HD2	2:L:203:ARG:NH2	2.04	0.73
2:L:225:SER:O	2:L:229:LEU:HD12	1.89	0.73
2:L:306:ARG:HD3	2:L:336:HIS:HB3	1.69	0.73
1:A:102:TYR:CD2	1:A:144:PHE:HE1	2.06	0.72
1:A:342:VAL:HG13	1:A:392:ALA:HB2	1.69	0.72
1:B:731:SER:HA	1:B:748:GLY:N	2.04	0.72
1:C:1317:THR:HG23	1:C:1358:GLU:OE1	1.88	0.72
1:E:1062:ARG:O	1:E:1062:ARG:HG3	1.89	0.72
2:G:207:LEU:HG	2:G:212:VAL:HG11	1.70	0.72
2:J:201:GLU:HG3	2:J:205:LYS:CE	2.18	0.72
2:J:207:LEU:HG	2:J:212:VAL:HG11	1.70	0.72
2:J:257:ASN:ND2	2:J:364:ALA:HB3	2.04	0.72
2:J:322:ARG:HG3	2:J:323:ASP:N	2.04	0.72
2:K:109:VAL:HG22	7:K:483:SF4:S2	2.28	0.72
2:L:201:GLU:HG3	2:L:205:LYS:CE	2.18	0.72
1:B:780:ARG:NH2	1:B:1105:VAL:HG23	2.03	0.72
1:B:783:LYS:HE2	2:G:57:VAL:CG1	2.17	0.72
1:C:902:ASN:CG	1:E:1227:GLU:CD	2.57	0.72
1:D:1449:ARG:CB	1:D:1449:ARG:NH1	1.80	0.72
1:E:387:PRO:HD3	1:E:1344:GLU:CD	2.15	0.72
1:F:891:PRO:HA	1:F:894:PHE:CE2	2.24	0.72
2:G:257:ASN:ND2	2:G:364:ALA:HB3	2.04	0.72
2:H:186:LEU:CD1	2:H:200:VAL:HB	2.19	0.72
2:H:186:LEU:HD21	2:H:200:VAL:HB	1.69	0.72
2:H:201:GLU:HG3	2:H:205:LYS:CE	2.18	0.72
2:H:264:TYR:OH	2:H:308:ALA:HA	1.89	0.72
2:H:307:THR:O	2:H:310:ARG:HB2	1.88	0.72
2:H:319:LEU:HA	2:H:345:ILE:HD11	1.70	0.72
2:J:366:ARG:HE	2:J:391:GLN:CG	2.01	0.72
2:K:320:TYR:HB2	2:K:346:TRP:CD1	2.24	0.72
2:L:132:TRP:HD1	2:L:202:ARG:HD2	1.53	0.72
2:L:186:LEU:CD1	2:L:200:VAL:HB	2.19	0.72
2:L:307:THR:O	2:L:310:ARG:HB2	1.88	0.72
1:B:295:LYS:NZ	1:B:299:VAL:O	2.17	0.72
1:B:465:LEU:HD12	1:B:465:LEU:O	1.89	0.72
1:B:1184:ASN:O	1:B:1187:LEU:N	2.22	0.72
1:E:290:THR:CG2	1:E:291:ALA:N	2.51	0.72
1:E:324:MET:HE2	1:E:327:TRP:HE1	1.54	0.72
1:E:573:PHE:HB2	1:E:574:PRO:HD2	1.71	0.72
1:E:781:PHE:CD2	2:L:57:VAL:HG21	2.23	0.72
2:G:92:GLU:HG2	2:G:128:ASN:OD1	1.89	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:186:LEU:HD21	2:G:200:VAL:HB	1.69	0.72
2:H:80:ALA:CB	2:H:127:ILE:HG12	2.17	0.72
2:I:201:GLU:HG3	2:I:205:LYS:CE	2.18	0.72
2:I:327:MET:HB2	2:I:346:TRP:HH2	1.54	0.72
2:I:378:GLN:O	2:I:380:PRO:HD3	1.89	0.72
2:I:383:ILE:HD13	2:I:385:GLY:H	1.54	0.72
2:J:144:ARG:HD3	2:J:465:HIS:CE1	2.23	0.72
2:J:152:VAL:CG1	2:J:175:VAL:HA	2.12	0.72
2:K:92:GLU:HG2	2:K:128:ASN:OD1	1.89	0.72
2:L:454:ILE:HD13	2:L:454:ILE:O	1.88	0.72
1:A:1438:ARG:HB3	2:L:376:GLY:N	1.84	0.72
1:B:838:VAL:HG12	1:B:839:PRO:N	2.02	0.72
1:B:838:VAL:CG1	1:B:839:PRO:HD2	2.19	0.72
1:D:780:ARG:NH2	1:D:1105:VAL:HG23	2.04	0.72
1:D:1228:LYS:HD3	1:F:901:ASP:CG	2.15	0.72
1:E:976:SER:OG	1:E:978:GLU:HG3	1.90	0.72
1:F:295:LYS:HD2	1:F:390:MET:CE	2.19	0.72
1:F:295:LYS:CB	1:F:390:MET:HE1	2.20	0.72
1:F:665:THR:HG22	1:F:665:THR:O	1.89	0.72
2:G:378:GLN:O	2:G:380:PRO:HD3	1.89	0.72
2:H:320:TYR:HB2	2:H:346:TRP:CD1	2.24	0.72
2:H:371:VAL:HG21	2:H:386:SER:HB3	1.71	0.72
2:J:430:LYS:HE2	2:J:456:ASP:HB3	1.69	0.72
2:K:145:GLU:OE1	2:K:469:LYS:HA	1.88	0.72
2:K:319:LEU:HA	2:K:345:ILE:HD11	1.70	0.72
2:K:322:ARG:HD2	2:K:349:ALA:HB1	1.71	0.72
2:L:152:VAL:HG13	2:L:175:VAL:CA	2.15	0.72
2:L:197:LYS:CE	2:L:275:ASP:H	2.01	0.72
2:L:320:TYR:HB2	2:L:346:TRP:CD1	2.24	0.72
2:L:416:LYS:HE3	2:L:433:ASN:ND2	2.04	0.72
1:A:902:ASN:CG	1:C:1227:GLU:CD	2.57	0.72
1:C:464:ILE:CD1	1:C:779:TYR:CE1	2.71	0.72
1:D:1113:CYS:O	1:D:1115:VAL:N	2.22	0.72
1:F:290:THR:CG2	1:F:292:PRO:CD	2.68	0.72
1:F:782:ARG:CZ	2:I:51:GLY:CA	1.75	0.72
2:G:100:GLN:HE21	2:G:100:GLN:HA	1.53	0.72
2:G:165:GLU:HB3	2:G:169:LYS:NZ	2.03	0.72
2:G:371:VAL:HG21	2:G:386:SER:HB3	1.71	0.72
2:H:71:LEU:CG	2:H:79:GLU:HB2	2.20	0.72
2:H:164:GLU:HB2	2:H:207:LEU:HD22	1.70	0.72
2:H:353:PHE:CD1	2:H:382:VAL:HG12	2.25	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:186:LEU:CD1	2:I:200:VAL:HB	2.19	0.72
2:I:197:LYS:CE	2:I:275:ASP:H	2.01	0.72
2:I:244:LYS:HD2	2:I:404:GLU:CB	2.13	0.72
2:J:31:ILE:HD13	2:J:336:HIS:NE2	2.05	0.72
2:K:416:LYS:HE3	2:K:433:ASN:ND2	2.04	0.72
1:A:573:PHE:HB2	1:A:574:PRO:HD2	1.71	0.72
1:B:223:GLN:HB3	1:B:224:PRO:HA	1.72	0.72
1:B:417:ASP:C	1:B:419:TRP:H	1.96	0.72
1:B:901:ASP:CG	1:F:1228:LYS:HD3	2.15	0.72
1:C:387:PRO:HD3	1:C:1344:GLU:CD	2.15	0.72
1:C:454:PHE:HE2	1:C:647:ALA:CB	2.03	0.72
1:C:1376:LEU:N	1:C:1376:LEU:CD2	2.33	0.72
1:C:1466:LEU:O	1:C:1467:GLU:C	2.33	0.72
1:D:465:LEU:HD12	1:D:465:LEU:O	1.89	0.72
1:D:1164:ARG:NH1	1:D:1166:ASP:OD2	2.23	0.72
1:F:511:ILE:HG22	1:F:512:ASP:N	2.03	0.72
1:F:603:HIS:N	1:F:640:THR:HG22	2.05	0.72
1:F:1076:GLY:HA3	1:F:1145:GLU:CG	2.17	0.72
1:F:1114:PRO:HA	2:I:112:GLN:C	1.84	0.72
2:H:423:LEU:HD22	2:H:423:LEU:H	1.55	0.72
2:I:165:GLU:HB3	2:I:169:LYS:NZ	2.03	0.72
2:I:439:ALA:HB1	2:I:443:ILE:HD11	1.72	0.72
2:J:262:LEU:HB2	2:J:401:PHE:HE2	1.53	0.72
2:K:71:LEU:HD11	2:K:76:ARG:O	1.88	0.72
2:L:71:LEU:HD11	2:L:76:ARG:O	1.88	0.72
2:L:71:LEU:CG	2:L:79:GLU:HB2	2.20	0.72
1:C:96:GLU:HA	1:C:96:GLU:OE1	1.88	0.72
1:C:1221:PRO:CD	1:C:1229:MET:HE1	2.19	0.72
1:D:290:THR:CG2	1:D:292:PRO:CD	2.68	0.72
1:D:781:PHE:CE2	1:D:791:GLU:HB3	2.25	0.72
1:E:1289:MET:H	1:E:1289:MET:CE	2.03	0.72
1:F:513:SER:CB	1:F:520:MET:HE2	2.20	0.72
2:H:416:LYS:HE3	2:H:433:ASN:ND2	2.04	0.72
2:J:186:LEU:CD1	2:J:200:VAL:HB	2.19	0.72
2:J:378:GLN:O	2:J:380:PRO:HD3	1.89	0.72
2:K:305:VAL:HG13	2:K:316:VAL:HG11	1.72	0.72
2:K:353:PHE:CD1	2:K:382:VAL:HG12	2.25	0.72
2:L:165:GLU:HB3	2:L:169:LYS:NZ	2.03	0.72
2:L:322:ARG:HD2	2:L:349:ALA:HB1	1.71	0.72
2:L:378:GLN:O	2:L:380:PRO:HD3	1.89	0.72
2:L:383:ILE:HD13	2:L:385:GLY:N	2.05	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:447:LEU:HD12	1:A:447:LEU:C	2.14	0.72
1:A:985:TYR:HE1	1:A:1207:VAL:HG13	1.53	0.72
1:A:1221:PRO:CD	1:A:1229:MET:HE1	2.19	0.72
1:B:146:LEU:HD12	1:B:146:LEU:O	1.88	0.72
1:B:295:LYS:CB	1:B:390:MET:HE1	2.20	0.72
1:B:842:GLU:HB3	1:B:1156:ARG:HD3	1.72	0.72
1:B:999:LYS:HG2	1:B:1022:LEU:HD23	1.72	0.72
1:C:375:ASP:OD2	1:C:377:THR:CB	2.26	0.72
1:C:1356:VAL:HG11	1:C:1431:HIS:HB2	1.71	0.72
1:C:1401:LEU:HD11	1:C:1405:ILE:HB	1.71	0.72
1:D:295:LYS:CB	1:D:390:MET:HE1	2.20	0.72
1:D:513:SER:CB	1:D:520:MET:HE2	2.20	0.72
1:D:603:HIS:N	1:D:640:THR:HG22	2.05	0.72
1:D:842:GLU:HB3	1:D:1156:ARG:HD3	1.72	0.72
1:D:1076:GLY:CA	1:D:1145:GLU:HG2	2.18	0.72
1:E:479:MET:CG	1:E:1104:MET:HE1	2.15	0.72
1:E:1317:THR:HG23	1:E:1358:GLU:OE1	1.88	0.72
1:F:223:GLN:HB3	1:F:224:PRO:HA	1.72	0.72
1:F:515:ARG:HD2	1:F:1367:TYR:HE1	1.49	0.72
2:G:383:ILE:HD13	2:G:385:GLY:H	1.54	0.72
2:H:305:VAL:HG13	2:H:316:VAL:HG11	1.72	0.72
2:H:383:ILE:HD13	2:H:385:GLY:N	2.05	0.72
2:I:31:ILE:HD13	2:I:336:HIS:NE2	2.05	0.72
2:I:165:GLU:HB3	2:I:169:LYS:HZ3	1.55	0.72
2:J:305:VAL:HG13	2:J:316:VAL:HG11	1.72	0.72
2:J:423:LEU:H	2:J:423:LEU:HD22	1.55	0.72
2:K:257:ASN:ND2	2:K:364:ALA:HB3	2.04	0.72
1:A:976:SER:OG	1:A:978:GLU:HG3	1.90	0.72
1:A:1260:GLN:OE1	1:E:899:ASN:OD1	2.08	0.72
1:B:511:ILE:HG22	1:B:512:ASP:N	2.03	0.72
1:B:1369:THR:HG22	1:B:1369:THR:O	1.89	0.72
1:B:1417:VAL:HG12	1:B:1419:HIS:H	1.54	0.72
1:C:918:THR:HG23	1:C:1256:MET:SD	2.30	0.72
1:C:1289:MET:H	1:C:1289:MET:CE	2.03	0.72
1:C:1447:TRP:CZ2	1:C:1451:VAL:HG22	2.24	0.72
1:D:493:ARG:NH2	1:D:786:ASP:OD1	2.21	0.72
1:D:525:ARG:HG2	1:D:542:LEU:HD13	1.71	0.72
1:D:731:SER:HA	1:D:748:GLY:N	2.04	0.72
1:E:37:ASP:OD1	1:E:37:ASP:C	2.33	0.72
1:E:734:LEU:HD12	1:E:738:HIS:HD2	1.54	0.72
1:E:1466:LEU:O	1:E:1467:GLU:C	2.33	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:210:ARG:HA	3:F:2473:OMT:HE3	1.72	0.72
1:F:829:LEU:HD13	1:F:1168:LEU:HD13	1.70	0.72
2:H:257:ASN:ND2	2:H:364:ALA:HB3	2.04	0.72
2:I:305:VAL:HG13	2:I:316:VAL:HG11	1.72	0.72
2:J:439:ALA:HB1	2:J:443:ILE:HD11	1.72	0.72
2:K:100:GLN:HA	2:K:100:GLN:HE21	1.53	0.72
1:A:1227:GLU:HG3	1:E:902:ASN:HB2	1.59	0.72
1:A:1466:LEU:O	1:A:1467:GLU:C	2.33	0.72
1:B:218:THR:CG2	1:B:221:LEU:HG	2.20	0.72
1:B:500:ARG:NH2	1:B:1040:PHE:HA	2.05	0.72
1:B:513:SER:CB	1:B:520:MET:HE2	2.20	0.72
1:B:1212:ASP:O	1:B:1216:VAL:HG23	1.90	0.72
1:C:189:THR:HG22	1:C:190:THR:N	2.04	0.72
1:D:3:VAL:HG22	1:D:231:ASN:HB2	1.72	0.72
1:D:210:ARG:HA	3:D:2473:OMT:HE3	1.72	0.72
1:E:189:THR:HG22	1:E:190:THR:N	2.04	0.72
1:E:447:LEU:HD12	1:E:447:LEU:C	2.14	0.72
1:F:236:THR:HG21	1:F:328:ASP:N	2.00	0.72
1:F:500:ARG:NH2	1:F:1040:PHE:HA	2.05	0.72
1:F:525:ARG:HG2	1:F:542:LEU:HD13	1.71	0.72
2:G:71:LEU:HD11	2:G:76:ARG:O	1.88	0.72
2:G:71:LEU:CG	2:G:79:GLU:HB2	2.20	0.72
2:G:416:LYS:HE3	2:G:433:ASN:ND2	2.04	0.72
2:H:225:SER:O	2:H:229:LEU:HD12	1.89	0.72
2:J:225:SER:O	2:J:229:LEU:HD12	1.89	0.72
2:K:207:LEU:HG	2:K:212:VAL:HG11	1.70	0.72
2:L:353:PHE:CD1	2:L:382:VAL:HG12	2.25	0.72
1:A:290:THR:HG22	1:A:292:PRO:N	2.05	0.71
1:B:52:GLN:NE2	1:B:71:LEU:H	1.87	0.71
1:B:588:ARG:O	1:B:592:GLU:CG	2.38	0.71
1:B:958:HIS:O	1:B:1369:THR:HG22	1.90	0.71
1:C:102:TYR:CD2	1:C:144:PHE:HE1	2.06	0.71
1:E:60:LYS:O	1:E:63:GLY:N	2.19	0.71
1:F:731:SER:HA	1:F:747:SER:HA	1.71	0.71
1:F:1047:MET:HE2	1:F:1186:ARG:NH2	1.97	0.71
1:F:1164:ARG:NH1	1:F:1166:ASP:OD2	2.23	0.71
2:G:264:TYR:OH	2:G:308:ALA:HA	1.89	0.71
2:H:31:ILE:HD13	2:H:336:HIS:NE2	2.05	0.71
2:I:225:SER:O	2:I:229:LEU:HD12	1.89	0.71
2:J:383:ILE:HD13	2:J:385:GLY:H	1.54	0.71
2:K:322:ARG:HG3	2:K:323:ASP:N	2.04	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:383:ILE:HD13	2:K:385:GLY:N	2.05	0.71
2:L:244:LYS:HD2	2:L:404:GLU:CB	2.13	0.71
2:L:262:LEU:HB2	2:L:401:PHE:HE2	1.53	0.71
2:L:371:VAL:HG21	2:L:386:SER:HB3	1.71	0.71
1:A:781:PHE:CD2	2:J:57:VAL:HG21	2.23	0.71
1:A:899:ASN:OD1	1:C:1260:GLN:OE1	2.08	0.71
1:A:1289:MET:H	1:A:1289:MET:CE	2.03	0.71
1:A:1447:TRP:CZ2	1:A:1451:VAL:HG22	2.24	0.71
1:B:891:PRO:HA	1:B:894:PHE:CE2	2.24	0.71
1:C:782:ARG:CB	2:K:56:GLN:NE2	2.38	0.71
1:D:353:MET:HG2	1:D:385:LEU:HD23	1.72	0.71
1:E:102:TYR:CD2	1:E:144:PHE:HE1	2.06	0.71
1:E:1131:THR:HG23	1:E:1133:GLU:OE1	1.90	0.71
2:H:388:PHE:HD2	2:H:390:VAL:HG13	1.52	0.71
2:I:320:TYR:HB2	2:I:346:TRP:CD1	2.24	0.71
2:K:152:VAL:HG13	2:K:175:VAL:CA	2.15	0.71
2:K:264:TYR:OH	2:K:308:ALA:HA	1.89	0.71
2:L:31:ILE:HD13	2:L:336:HIS:NE2	2.05	0.71
2:L:92:GLU:HG2	2:L:128:ASN:OD1	1.89	0.71
1:A:387:PRO:HD3	1:A:1344:GLU:CD	2.14	0.71
1:A:724:ASN:ND2	1:A:724:ASN:N	2.36	0.71
1:A:1131:THR:HG23	1:A:1133:GLU:OE1	1.90	0.71
1:A:1227:GLU:CD	1:E:902:ASN:CG	2.57	0.71
1:B:602:THR:C	1:B:640:THR:HG22	2.14	0.71
1:B:782:ARG:HG2	2:G:53:PRO:HD2	0.77	0.71
1:B:1164:ARG:NH1	1:B:1166:ASP:OD2	2.23	0.71
1:D:218:THR:CG2	1:D:221:LEU:HG	2.20	0.71
1:D:242:ASN:HD22	1:D:242:ASN:N	1.87	0.71
1:D:1253:LYS:O	1:D:1253:LYS:HG3	1.91	0.71
1:E:782:ARG:HG3	2:L:52:VAL:HA	0.89	0.71
1:F:459:GLU:O	1:F:463:LEU:HB2	1.91	0.71
1:F:781:PHE:CE2	1:F:791:GLU:HB3	2.25	0.71
1:F:842:GLU:HB3	1:F:1156:ARG:HD3	1.72	0.71
1:F:1369:THR:HG22	1:F:1369:THR:O	1.89	0.71
2:G:220:VAL:CG2	8:G:484:FAD:C6A	2.68	0.71
2:G:353:PHE:CD1	2:G:382:VAL:HG12	2.25	0.71
2:J:322:ARG:HD2	2:J:349:ALA:HB1	1.71	0.71
2:J:353:PHE:CD1	2:J:382:VAL:HG12	2.25	0.71
2:K:164:GLU:HB2	2:K:207:LEU:HD22	1.70	0.71
2:L:440:ALA:CB	2:L:456:ASP:HB3	2.19	0.71
1:A:875:MET:HE1	1:A:1139:PHE:CZ	2.20	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:493:ARG:NH2	1:B:786:ASP:OD1	2.21	0.71
1:B:781:PHE:CE2	1:B:791:GLU:HB3	2.25	0.71
1:B:1253:LYS:O	1:B:1253:LYS:HG3	1.91	0.71
1:D:1053:HIS:ND1	1:D:1062:ARG:NH1	2.39	0.71
1:D:1212:ASP:O	1:D:1216:VAL:HG23	1.90	0.71
1:E:218:THR:HG21	1:E:221:LEU:HG	1.73	0.71
1:E:850:ARG:HH11	1:E:850:ARG:HG3	1.53	0.71
2:G:305:VAL:HG13	2:G:316:VAL:HG11	1.72	0.71
2:G:423:LEU:HD22	2:G:423:LEU:H	1.55	0.71
2:H:91:PRO:HD2	2:H:203:ARG:NH2	2.04	0.71
2:I:92:GLU:HG2	2:I:128:ASN:OD1	1.89	0.71
2:I:383:ILE:HD13	2:I:385:GLY:N	2.05	0.71
2:I:440:ALA:CB	2:I:456:ASP:HB3	2.19	0.71
2:J:144:ARG:HD2	2:J:169:LYS:HB3	1.73	0.71
2:J:320:TYR:HB2	2:J:346:TRP:CD1	2.24	0.71
2:J:383:ILE:HD13	2:J:385:GLY:N	2.05	0.71
2:K:71:LEU:CG	2:K:79:GLU:HB2	2.20	0.71
2:K:91:PRO:HD2	2:K:203:ARG:NH2	2.04	0.71
2:K:96:ARG:HG3	2:K:97:ILE:HG23	1.73	0.71
2:L:366:ARG:HE	2:L:391:GLN:CG	2.01	0.71
1:B:746:ILE:HG22	1:B:747:SER:O	1.88	0.71
1:C:324:MET:HE2	1:C:327:TRP:HE1	1.54	0.71
1:C:1230:GLN:NE2	1:C:1267:ARG:HD3	2.05	0.71
1:D:223:GLN:HB3	1:D:224:PRO:HA	1.72	0.71
1:D:236:THR:HG21	1:D:328:ASP:N	2.00	0.71
1:E:1221:PRO:CD	1:E:1229:MET:HE1	2.20	0.71
1:E:1222:LEU:C	1:E:1222:LEU:HD12	2.16	0.71
2:I:322:ARG:HG3	2:I:323:ASP:N	2.04	0.71
2:J:96:ARG:HG3	2:J:97:ILE:HG23	1.73	0.71
2:L:165:GLU:HB3	2:L:169:LYS:HZ3	1.55	0.71
2:L:327:MET:HB2	2:L:346:TRP:HH2	1.54	0.71
1:A:37:ASP:OD1	1:A:37:ASP:C	2.33	0.71
1:A:454:PHE:HE2	1:A:647:ALA:CB	2.03	0.71
1:A:838:VAL:CG1	1:A:839:PRO:N	2.53	0.71
1:A:1230:GLN:NE2	1:A:1267:ARG:HD3	2.05	0.71
1:B:242:ASN:HD22	1:B:242:ASN:N	1.87	0.71
1:B:353:MET:HG2	1:B:385:LEU:HD23	1.72	0.71
1:B:1289:MET:HB2	1:B:1289:MET:HE3	1.71	0.71
1:D:459:GLU:O	1:D:463:LEU:HB2	1.91	0.71
1:D:1184:ASN:O	1:D:1187:LEU:N	2.22	0.71
1:F:588:ARG:O	1:F:592:GLU:CG	2.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:225:SER:O	2:G:229:LEU:HD12	1.89	0.71
2:I:262:LEU:HB2	2:I:401:PHE:HE2	1.53	0.71
2:J:220:VAL:CG2	8:J:484:FAD:C6A	2.68	0.71
1:B:210:ARG:HA	3:B:2473:OMT:HE3	1.72	0.71
1:C:1131:THR:HG23	1:C:1133:GLU:OE1	1.89	0.71
1:C:1216:VAL:CG1	1:C:1249:MET:HE2	2.21	0.71
1:D:465:LEU:HD12	1:D:465:LEU:C	2.12	0.71
1:E:381:GLU:CD	1:E:402:ARG:NH1	2.49	0.71
1:E:1230:GLN:NE2	1:E:1267:ARG:HD3	2.05	0.71
1:F:242:ASN:ND2	1:F:242:ASN:N	2.37	0.71
1:F:782:ARG:HG2	2:I:53:PRO:HD2	0.77	0.71
1:F:875:MET:CE	1:F:1139:PHE:CE2	2.73	0.71
2:G:132:TRP:HD1	2:G:202:ARG:HD2	1.53	0.71
2:H:383:ILE:HD13	2:H:385:GLY:H	1.54	0.71
2:K:225:SER:O	2:K:229:LEU:HD12	1.89	0.71
2:L:207:LEU:HG	2:L:212:VAL:HG11	1.70	0.71
2:L:305:VAL:HG13	2:L:316:VAL:HG11	1.72	0.71
2:L:319:LEU:HA	2:L:345:ILE:HD11	1.70	0.71
2:L:439:ALA:HB1	2:L:443:ILE:HD11	1.72	0.71
1:A:96:GLU:HA	1:A:96:GLU:OE1	1.89	0.71
1:A:1356:VAL:HG11	1:A:1431:HIS:HB2	1.71	0.71
1:B:3:VAL:HG22	1:B:231:ASN:HB2	1.72	0.71
1:C:997:THR:HG22	1:C:998:VAL:N	2.05	0.71
1:D:731:SER:HA	1:D:747:SER:HA	1.71	0.71
1:D:838:VAL:CG1	1:D:839:PRO:HD2	2.19	0.71
1:E:290:THR:HG22	1:E:292:PRO:N	2.05	0.71
1:E:918:THR:HG23	1:E:1256:MET:SD	2.30	0.71
1:F:88:ALA:O	1:F:92:ILE:HG13	1.91	0.71
1:F:958:HIS:O	1:F:1369:THR:HG22	1.90	0.71
2:G:238:VAL:HG23	2:G:439:ALA:CB	2.21	0.71
2:H:220:VAL:CG2	8:H:484:FAD:C6A	2.68	0.71
2:H:238:VAL:HG23	2:H:439:ALA:CB	2.21	0.71
2:J:92:GLU:HG2	2:J:128:ASN:OD1	1.89	0.71
2:J:264:TYR:HE2	2:J:307:THR:CG2	2.04	0.71
2:L:220:VAL:CG2	8:L:484:FAD:C6A	2.68	0.71
1:B:665:THR:HG22	1:B:665:THR:O	1.89	0.71
1:B:731:SER:HA	1:B:747:SER:HA	1.71	0.71
1:B:1047:MET:CE	1:B:1186:ARG:NH2	2.44	0.71
1:C:734:LEU:HD12	1:C:738:HIS:HD2	1.54	0.71
1:D:88:ALA:O	1:D:92:ILE:HG13	1.91	0.71
1:D:802:VAL:HG23	1:D:1137:ASN:HB2	1.73	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:997:THR:HG22	1:E:998:VAL:N	2.05	0.71
1:F:1212:ASP:O	1:F:1216:VAL:HG23	1.90	0.71
2:G:383:ILE:HD13	2:G:385:GLY:N	2.05	0.71
2:H:144:ARG:HD2	2:H:169:LYS:HB3	1.73	0.71
2:I:264:TYR:HE2	2:I:307:THR:CG2	2.04	0.71
2:I:366:ARG:HD3	2:I:389:THR:OG1	1.91	0.71
2:I:423:LEU:H	2:I:423:LEU:HD22	1.55	0.71
2:J:366:ARG:HD3	2:J:389:THR:OG1	1.91	0.71
2:K:238:VAL:HG23	2:K:439:ALA:CB	2.21	0.71
1:A:324:MET:HE2	1:A:327:TRP:HE1	1.54	0.71
1:A:918:THR:HG23	1:A:1256:MET:SD	2.30	0.71
1:A:1104:MET:C	2:J:54:PHE:CZ	2.67	0.71
1:B:802:VAL:HG23	1:B:1137:ASN:HB2	1.73	0.71
1:B:875:MET:CE	1:B:1139:PHE:CE2	2.73	0.71
1:B:1076:GLY:CA	1:B:1145:GLU:HG2	2.18	0.71
1:B:1228:LYS:HD3	1:D:901:ASP:CG	2.15	0.71
1:C:381:GLU:CD	1:C:402:ARG:NH1	2.49	0.71
1:D:500:ARG:NH2	1:D:1040:PHE:HA	2.05	0.71
1:D:603:HIS:N	1:D:640:THR:CG2	2.54	0.71
1:F:593:THR:O	1:F:597:VAL:HG23	1.91	0.71
1:F:603:HIS:N	1:F:640:THR:CG2	2.54	0.71
1:F:1053:HIS:CE1	1:F:1062:ARG:HH11	2.08	0.71
1:F:1289:MET:HB2	1:F:1289:MET:HE3	1.71	0.71
2:I:353:PHE:CD1	2:I:382:VAL:HG12	2.25	0.71
2:K:31:ILE:HD13	2:K:336:HIS:NE2	2.05	0.71
2:K:165:GLU:CD	2:K:458:ARG:HA	2.16	0.71
2:K:423:LEU:HD22	2:K:423:LEU:H	1.55	0.71
2:K:478:VAL:HG23	2:K:479:ALA:H	1.56	0.71
1:A:183:PHE:CE1	1:A:188:LEU:HA	2.26	0.70
1:A:902:ASN:CG	1:C:1227:GLU:CG	2.63	0.70
1:B:295:LYS:NZ	1:B:299:VAL:HG12	2.06	0.70
1:B:1170:GLN:O	1:B:1170:GLN:CG	2.39	0.70
1:C:218:THR:HG21	1:C:221:LEU:HG	1.73	0.70
1:C:1062:ARG:O	1:C:1062:ARG:HG3	1.90	0.70
1:D:593:THR:O	1:D:597:VAL:HG23	1.91	0.70
1:D:1053:HIS:CE1	1:D:1062:ARG:HH11	2.08	0.70
1:E:838:VAL:CG1	1:E:839:PRO:N	2.53	0.70
1:F:266:VAL:O	1:F:279:THR:CG2	2.39	0.70
1:F:1184:ASN:O	1:F:1187:LEU:N	2.22	0.70
1:F:1394:VAL:HG12	1:F:1394:VAL:O	1.91	0.70
2:G:326:ASN:O	2:G:328:PRO:HD3	1.91	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:207:LEU:HG	2:H:212:VAL:HG11	1.70	0.70
2:I:71:LEU:CG	2:I:79:GLU:HB2	2.20	0.70
2:I:144:ARG:HD2	2:I:169:LYS:HB3	1.73	0.70
2:J:244:LYS:HD2	2:J:404:GLU:CB	2.13	0.70
2:K:321:ARG:CB	2:K:351:GLU:HA	2.21	0.70
1:A:1062:ARG:O	1:A:1062:ARG:HG3	1.89	0.70
1:B:907:ILE:HG23	1:B:927:GLU:HG2	1.73	0.70
1:C:177:ILE:HD13	1:C:179:TYR:CE1	2.27	0.70
1:C:573:PHE:HB2	1:C:574:PRO:HD2	1.71	0.70
1:C:724:ASN:ND2	1:C:724:ASN:N	2.36	0.70
1:C:838:VAL:CG1	1:C:839:PRO:N	2.53	0.70
1:C:976:SER:OG	1:C:978:GLU:HG3	1.90	0.70
1:D:59:VAL:HG21	1:D:105:TYR:CD2	2.26	0.70
1:D:1047:MET:HE2	1:D:1186:ARG:NH2	1.97	0.70
1:D:1170:GLN:O	1:D:1170:GLN:CG	2.39	0.70
1:E:96:GLU:HA	1:E:96:GLU:OE1	1.89	0.70
1:E:609:GLU:OE2	1:E:645:ARG:HD3	1.88	0.70
1:E:1104:MET:C	2:L:54:PHE:CZ	2.67	0.70
1:E:1216:VAL:CG1	1:E:1249:MET:HE2	2.21	0.70
1:F:295:LYS:NZ	1:F:299:VAL:HG12	2.06	0.70
1:F:802:VAL:HG23	1:F:1137:ASN:HB2	1.73	0.70
2:G:31:ILE:HD13	2:G:336:HIS:NE2	2.05	0.70
2:G:144:ARG:HD2	2:G:169:LYS:HB3	1.73	0.70
2:G:319:LEU:HA	2:G:345:ILE:HD11	1.70	0.70
2:H:152:VAL:HG13	2:H:175:VAL:CA	2.15	0.70
2:H:264:TYR:HE2	2:H:307:THR:CG2	2.04	0.70
2:K:264:TYR:HE2	2:K:307:THR:CG2	2.04	0.70
2:K:326:ASN:O	2:K:328:PRO:HD3	1.91	0.70
2:L:238:VAL:HG23	2:L:439:ALA:CB	2.21	0.70
1:A:381:GLU:CD	1:A:402:ARG:NH1	2.49	0.70
1:A:501:GLN:HE21	1:A:653:HIS:CD2	2.10	0.70
1:B:266:VAL:O	1:B:279:THR:CG2	2.39	0.70
1:B:593:THR:O	1:B:597:VAL:HG23	1.91	0.70
1:B:704:LEU:C	1:B:706:LYS:N	2.49	0.70
1:B:739:PHE:O	1:B:740:PRO:O	2.10	0.70
1:C:146:LEU:HD12	1:C:146:LEU:C	2.17	0.70
1:C:899:ASN:OD1	1:E:1260:GLN:OE1	2.08	0.70
1:D:1348:VAL:O	1:D:1348:VAL:HG13	1.91	0.70
1:E:1438:ARG:HB3	2:K:375:THR:CA	2.14	0.70
1:F:417:ASP:C	1:F:419:TRP:H	1.96	0.70
2:G:165:GLU:CD	2:G:458:ARG:HA	2.16	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:194:LYS:HD2	2:G:306:ARG:HH21	1.57	0.70
2:G:321:ARG:CB	2:G:351:GLU:HA	2.21	0.70
2:G:417:VAL:HG12	2:G:418:THR:O	1.92	0.70
2:I:96:ARG:HG3	2:I:97:ILE:HG23	1.73	0.70
2:I:165:GLU:CD	2:I:458:ARG:HA	2.16	0.70
2:K:197:LYS:HG2	2:K:273:LEU:HD12	1.73	0.70
2:L:152:VAL:CG1	2:L:175:VAL:HA	2.12	0.70
2:L:264:TYR:HE2	2:L:307:THR:CG2	2.04	0.70
2:L:326:ASN:O	2:L:328:PRO:HD3	1.91	0.70
1:A:997:THR:HG22	1:A:998:VAL:N	2.05	0.70
1:A:1362:SER:HA	1:A:1380:GLY:HA3	1.74	0.70
1:B:59:VAL:HG21	1:B:105:TYR:CD2	2.26	0.70
1:B:242:ASN:ND2	1:B:242:ASN:N	2.37	0.70
1:B:454:PHE:CE2	1:B:647:ALA:HB3	2.27	0.70
1:B:603:HIS:N	1:B:640:THR:CG2	2.54	0.70
1:B:820:ARG:CB	1:B:821:PRO:CD	2.66	0.70
1:B:1053:HIS:ND1	1:B:1062:ARG:NH1	2.39	0.70
1:C:140:SER:O	1:C:143:GLN:N	2.24	0.70
1:C:1362:SER:HA	1:C:1380:GLY:HA3	1.74	0.70
1:D:242:ASN:ND2	1:D:242:ASN:N	2.37	0.70
1:D:266:VAL:O	1:D:279:THR:CG2	2.39	0.70
1:E:454:PHE:HE2	1:E:647:ALA:CB	2.03	0.70
1:F:353:MET:HG2	1:F:385:LEU:HD23	1.72	0.70
2:H:34:ARG:HG3	2:H:125:LYS:HE2	1.74	0.70
2:H:194:LYS:HD2	2:H:306:ARG:HH21	1.57	0.70
2:I:420:TRP:HB2	2:I:422:THR:HG22	1.73	0.70
2:J:34:ARG:HG3	2:J:125:LYS:HE2	1.73	0.70
2:J:238:VAL:HG23	2:J:439:ALA:CB	2.21	0.70
2:K:194:LYS:HD2	2:K:306:ARG:HH21	1.57	0.70
2:L:322:ARG:HG3	2:L:323:ASP:N	2.04	0.70
2:L:423:LEU:HD22	2:L:423:LEU:H	1.55	0.70
1:C:182:MET:HE3	1:C:217:PRO:HB2	0.70	0.70
1:C:501:GLN:HE21	1:C:653:HIS:CD2	2.10	0.70
1:D:389:GLU:CB	1:D:403:ASP:OD2	2.40	0.70
1:D:450:ARG:O	1:D:451:GLN:C	2.35	0.70
1:D:588:ARG:O	1:D:592:GLU:CG	2.38	0.70
1:D:875:MET:CE	1:D:1139:PHE:CE2	2.73	0.70
1:E:295:LYS:HZ3	1:E:299:VAL:HG12	1.54	0.70
1:E:1076:GLY:HA3	1:E:1145:GLU:CG	2.22	0.70
1:F:218:THR:CG2	1:F:221:LEU:HG	2.20	0.70
1:F:242:ASN:HD22	1:F:242:ASN:N	1.87	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:478:VAL:HG23	2:G:479:ALA:H	1.56	0.70
2:H:197:LYS:HG2	2:H:273:LEU:HD12	1.73	0.70
2:H:406:LEU:HD22	2:H:406:LEU:H	1.57	0.70
2:I:34:ARG:HG3	2:I:125:LYS:HE2	1.73	0.70
2:I:132:TRP:HD1	2:I:202:ARG:HD2	1.53	0.70
2:I:220:VAL:CG2	8:I:484:FAD:C6A	2.68	0.70
2:J:406:LEU:H	2:J:406:LEU:HD22	1.57	0.70
2:K:220:VAL:CG2	8:K:484:FAD:C6A	2.68	0.70
2:K:368:HIS:CE1	2:K:387:GLU:HG3	2.27	0.70
2:K:406:LEU:H	2:K:406:LEU:HD22	1.57	0.70
2:K:439:ALA:HB1	2:K:443:ILE:HD11	1.72	0.70
1:A:182:MET:HE3	1:A:217:PRO:HB2	0.70	0.70
1:A:345:MET:HE1	1:A:385:LEU:HB2	1.74	0.70
1:A:1396:ASP:OD1	1:A:1396:ASP:C	2.34	0.70
1:B:1053:HIS:CE1	1:B:1062:ARG:HH11	2.08	0.70
1:C:37:ASP:OD1	1:C:37:ASP:C	2.33	0.70
1:C:1396:ASP:OD1	1:C:1396:ASP:C	2.34	0.70
1:D:985:TYR:CE1	1:D:1207:VAL:HG13	2.27	0.70
1:E:1356:VAL:HG11	1:E:1431:HIS:HB2	1.71	0.70
1:F:3:VAL:HG22	1:F:231:ASN:HB2	1.72	0.70
1:F:732:ARG:H	1:F:747:SER:HB3	1.57	0.70
1:F:1438:ARG:NE	2:G:376:GLY:C	2.28	0.70
2:G:96:ARG:HG3	2:G:97:ILE:HG23	1.73	0.70
2:G:322:ARG:HD2	2:G:349:ALA:HB1	1.71	0.70
2:I:197:LYS:HG2	2:I:273:LEU:HD12	1.73	0.70
1:A:140:SER:O	1:A:143:GLN:N	2.24	0.70
1:B:88:ALA:O	1:B:92:ILE:HG13	1.91	0.70
1:B:459:GLU:O	1:B:463:LEU:HB2	1.91	0.70
1:B:1121:ASP:OD1	1:B:1122:ASP:N	2.25	0.70
1:D:657:VAL:O	1:D:658:LEU:C	2.32	0.70
1:D:704:LEU:C	1:D:706:LYS:N	2.49	0.70
1:D:794:VAL:HG12	1:D:795:ILE:N	2.07	0.70
1:D:907:ILE:HG23	1:D:927:GLU:HG2	1.73	0.70
1:E:182:MET:HE3	1:E:217:PRO:HB2	0.70	0.70
1:E:501:GLN:HE21	1:E:653:HIS:CD2	2.10	0.70
1:F:1053:HIS:ND1	1:F:1062:ARG:NH1	2.39	0.70
1:F:1105:VAL:HG13	1:F:1107:GLN:HG3	1.74	0.70
2:J:90:PHE:CD2	2:J:203:ARG:HG3	2.27	0.70
2:J:165:GLU:CD	2:J:458:ARG:HA	2.16	0.70
2:J:440:ALA:CB	2:J:456:ASP:HB3	2.19	0.70
2:K:417:VAL:HG12	2:K:418:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:477:ALA:O	2:L:478:VAL:HG13	1.92	0.70
1:A:177:ILE:HD13	1:A:179:TYR:CE1	2.27	0.70
1:A:218:THR:HG21	1:A:221:LEU:HG	1.73	0.70
1:A:1222:LEU:C	1:A:1222:LEU:HD12	2.16	0.70
1:B:302:ALA:HB2	1:B:347:ARG:NH1	2.07	0.70
1:B:1394:VAL:HG12	1:B:1394:VAL:O	1.91	0.70
1:C:345:MET:HE1	1:C:385:LEU:HB2	1.74	0.70
1:C:902:ASN:ND2	1:E:1227:GLU:HG3	2.07	0.70
1:C:974:ILE:CD1	1:C:983:LEU:HD12	2.19	0.70
1:E:875:MET:HE1	1:E:1139:PHE:CZ	2.20	0.70
1:F:454:PHE:CE2	1:F:647:ALA:HB3	2.27	0.70
1:F:604:VAL:HG23	1:F:640:THR:HG21	1.73	0.70
1:F:780:ARG:HG2	2:I:51:GLY:O	1.92	0.70
1:F:794:VAL:HG12	1:F:795:ILE:N	2.07	0.70
1:F:1414:ARG:NH2	1:F:1455:TRP:CZ2	2.60	0.70
2:G:406:LEU:H	2:G:406:LEU:HD22	1.57	0.70
2:G:420:TRP:HB2	2:G:422:THR:HG22	1.73	0.70
2:G:440:ALA:CB	2:G:456:ASP:HB3	2.19	0.70
2:H:77:LEU:HA	2:H:127:ILE:CD1	2.22	0.70
2:I:90:PHE:CD2	2:I:203:ARG:HG3	2.27	0.70
2:I:238:VAL:HG23	2:I:439:ALA:CB	2.21	0.70
2:J:420:TRP:HB2	2:J:422:THR:HG22	1.73	0.70
2:K:366:ARG:HD3	2:K:389:THR:OG1	1.91	0.70
2:K:420:TRP:HB2	2:K:422:THR:HG22	1.73	0.70
2:K:477:ALA:O	2:K:478:VAL:HG13	1.92	0.70
2:L:197:LYS:HG2	2:L:273:LEU:HD12	1.73	0.70
1:A:1216:VAL:CG1	1:A:1249:MET:HE2	2.21	0.70
1:B:107:TRP:N	1:B:107:TRP:CD1	2.59	0.70
1:B:932:VAL:O	1:B:933:ALA:HB2	1.92	0.70
1:C:183:PHE:CE1	1:C:188:LEU:HA	2.26	0.70
1:D:604:VAL:HG23	1:D:640:THR:HG21	1.73	0.70
1:D:739:PHE:O	1:D:740:PRO:O	2.10	0.70
1:E:140:SER:O	1:E:143:GLN:N	2.24	0.70
1:E:183:PHE:CE1	1:E:188:LEU:HA	2.26	0.70
1:F:450:ARG:O	1:F:451:GLN:C	2.35	0.70
2:G:100:GLN:CB	2:G:105:GLU:HG2	2.22	0.70
2:I:477:ALA:O	2:I:478:VAL:HG13	1.92	0.70
2:J:100:GLN:CB	2:J:105:GLU:HG2	2.22	0.70
2:L:77:LEU:HA	2:L:127:ILE:CD1	2.22	0.70
2:L:165:GLU:CD	2:L:458:ARG:HA	2.16	0.70
2:L:417:VAL:HG12	2:L:418:THR:O	1.92	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1449:ARG:CB	1:B:1449:ARG:NH1	1.80	0.70
1:D:447:LEU:CD1	1:D:451:GLN:HG3	2.22	0.70
1:E:1291:ASP:OD1	1:E:1291:ASP:C	2.35	0.70
1:E:1338:ALA:HB3	1:E:1357:VAL:HG22	1.74	0.70
1:F:985:TYR:CE1	1:F:1207:VAL:HG13	2.27	0.70
2:G:295:LEU:O	2:G:398:ALA:HB3	1.92	0.70
2:G:366:ARG:HD3	2:G:389:THR:OG1	1.91	0.70
2:H:179:TYR:CB	2:H:181:ARG:HH12	2.05	0.70
2:H:321:ARG:CB	2:H:351:GLU:HA	2.21	0.70
2:K:241:GLY:N	2:K:443:ILE:HG23	2.07	0.70
2:L:144:ARG:HD2	2:L:169:LYS:HB3	1.73	0.70
2:L:194:LYS:HD2	2:L:306:ARG:HH21	1.57	0.70
2:L:327:MET:HE2	2:L:334:VAL:HG12	1.74	0.70
2:L:478:VAL:HG23	2:L:479:ALA:H	1.56	0.70
1:A:113:ASN:HD22	1:A:114:VAL:N	1.89	0.69
1:B:290:THR:CG2	1:B:292:PRO:CD	2.68	0.69
1:B:603:HIS:N	1:B:640:THR:HG22	2.05	0.69
1:B:1090:PHE:N	1:B:1090:PHE:CD1	2.60	0.69
1:B:1414:ARG:NH2	1:B:1455:TRP:CZ2	2.60	0.69
1:C:290:THR:HG22	1:C:292:PRO:N	2.05	0.69
1:C:413:LEU:O	1:C:414:LYS:CD	2.40	0.69
1:C:1076:GLY:HA3	1:C:1145:GLU:CG	2.22	0.69
1:D:732:ARG:H	1:D:747:SER:HB3	1.57	0.69
1:E:515:ARG:NE	1:E:1367:TYR:CE1	2.60	0.69
1:E:1396:ASP:OD1	1:E:1396:ASP:C	2.34	0.69
1:F:302:ALA:HB2	1:F:347:ARG:NH1	2.07	0.69
2:G:264:TYR:HE2	2:G:307:THR:CG2	2.04	0.69
2:H:165:GLU:CD	2:H:458:ARG:HA	2.16	0.69
2:H:418:THR:HG21	2:H:422:THR:HG23	1.74	0.69
2:H:477:ALA:O	2:H:478:VAL:HG13	1.92	0.69
2:H:478:VAL:HG23	2:H:479:ALA:H	1.56	0.69
2:I:326:ASN:O	2:I:328:PRO:HD3	1.91	0.69
2:J:368:HIS:CE1	2:J:387:GLU:HG3	2.27	0.69
2:K:383:ILE:HD13	2:K:385:GLY:H	1.54	0.69
2:L:121:GLY:O	2:L:125:LYS:HD3	1.92	0.69
2:L:321:ARG:CB	2:L:351:GLU:HA	2.21	0.69
2:L:366:ARG:HD3	2:L:389:THR:OG1	1.91	0.69
1:A:59:VAL:HG21	1:A:105:TYR:CE2	2.27	0.69
1:A:146:LEU:HD12	1:A:146:LEU:C	2.16	0.69
1:A:1227:GLU:CG	1:E:902:ASN:CG	2.63	0.69
1:C:113:ASN:HD22	1:C:114:VAL:N	1.89	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:240:ASN:HD21	1:C:327:TRP:HA	1.58	0.69
1:C:515:ARG:NE	1:C:1367:TYR:CE1	2.60	0.69
1:C:1221:PRO:CG	1:C:1229:MET:CE	2.70	0.69
1:D:958:HIS:O	1:D:1369:THR:HG22	1.90	0.69
1:D:1053:HIS:CE1	1:D:1062:ARG:NH1	2.60	0.69
1:D:1394:VAL:O	1:D:1394:VAL:HG12	1.91	0.69
1:E:94:GLU:O	1:E:95:THR:C	2.35	0.69
1:E:177:ILE:HD13	1:E:179:TYR:CE1	2.27	0.69
1:F:312:ASN:OD1	1:F:312:ASN:N	2.25	0.69
1:F:319:TYR:O	1:F:322:SER:OG	2.09	0.69
1:F:1053:HIS:CE1	1:F:1062:ARG:NH1	2.60	0.69
2:H:327:MET:HE2	2:H:334:VAL:HG12	1.74	0.69
2:J:241:GLY:N	2:J:443:ILE:HG23	2.07	0.69
2:K:34:ARG:HG3	2:K:125:LYS:HE2	1.73	0.69
1:A:734:LEU:HD12	1:A:738:HIS:HD2	1.54	0.69
1:A:1076:GLY:HA3	1:A:1145:GLU:CG	2.22	0.69
1:B:113:ASN:ND2	1:B:113:ASN:C	2.49	0.69
1:B:1059:ASN:N	1:B:1059:ASN:HD22	1.91	0.69
1:C:902:ASN:CG	1:E:1227:GLU:CG	2.63	0.69
1:D:295:LYS:NZ	1:D:299:VAL:HG12	2.06	0.69
1:D:454:PHE:CE2	1:D:647:ALA:HB3	2.26	0.69
1:D:602:THR:C	1:D:640:THR:HG23	2.17	0.69
1:D:985:TYR:CE1	1:D:1207:VAL:CG1	2.75	0.69
1:E:1121:ASP:OD2	1:E:1124:LEU:HB2	1.93	0.69
1:F:447:LEU:CD1	1:F:451:GLN:HG3	2.22	0.69
1:F:728:ILE:HD12	1:F:1047:MET:HE1	1.74	0.69
1:F:739:PHE:O	1:F:740:PRO:O	2.10	0.69
2:G:197:LYS:HE2	2:G:275:ASP:N	2.08	0.69
2:H:90:PHE:CD2	2:H:203:ARG:HG3	2.27	0.69
2:H:121:GLY:O	2:H:125:LYS:HD3	1.92	0.69
2:H:241:GLY:N	2:H:443:ILE:HG23	2.07	0.69
2:I:327:MET:HE2	2:I:334:VAL:HG12	1.74	0.69
2:J:121:GLY:O	2:J:125:LYS:HD3	1.92	0.69
2:J:477:ALA:O	2:J:478:VAL:HG13	1.92	0.69
2:K:77:LEU:HA	2:K:127:ILE:CD1	2.22	0.69
2:K:144:ARG:HD2	2:K:169:LYS:HB3	1.73	0.69
2:K:179:TYR:CB	2:K:181:ARG:HH12	2.05	0.69
2:L:449:LEU:CD1	2:L:451:VAL:HG12	2.22	0.69
1:A:461:MET:HE1	1:A:465:LEU:HD23	1.74	0.69
1:A:496:HIS:O	1:A:653:HIS:HE1	1.76	0.69
1:A:1317:THR:HG23	1:A:1358:GLU:OE1	1.88	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1338:ALA:HB3	1:A:1357:VAL:HG22	1.74	0.69
1:B:309:THR:HB	1:B:314:LYS:HE3	1.74	0.69
1:D:426:LEU:HD22	1:D:543:LEU:HB3	1.73	0.69
1:F:419:TRP:O	1:F:540:THR:HG21	1.92	0.69
2:G:121:GLY:O	2:G:125:LYS:HD3	1.92	0.69
2:G:327:MET:HB2	2:G:346:TRP:HH2	1.54	0.69
2:G:368:HIS:CE1	2:G:387:GLU:HG3	2.27	0.69
2:G:439:ALA:HB1	2:G:443:ILE:HD11	1.72	0.69
2:I:121:GLY:O	2:I:125:LYS:HD3	1.92	0.69
2:I:122:SER:HA	2:I:125:LYS:HE3	1.75	0.69
2:J:321:ARG:CB	2:J:351:GLU:HA	2.21	0.69
2:K:327:MET:HE2	2:K:334:VAL:HG12	1.74	0.69
1:A:515:ARG:NE	1:A:1367:TYR:CE1	2.60	0.69
1:A:1415:ILE:HG21	1:A:1421:GLU:HB2	1.75	0.69
1:C:208:HIS:CE1	1:C:223:GLN:OE1	2.45	0.69
1:C:414:LYS:HB3	1:C:415:PRO:CD	2.23	0.69
1:C:496:HIS:O	1:C:653:HIS:HE1	1.76	0.69
1:C:746:ILE:HG23	1:C:1182:ASP:H	1.54	0.69
1:C:1121:ASP:OD2	1:C:1124:LEU:HB2	1.93	0.69
1:C:1222:LEU:C	1:C:1222:LEU:HD12	2.16	0.69
1:D:999:LYS:HG2	1:D:1022:LEU:HD23	1.72	0.69
1:E:146:LEU:HD12	1:E:146:LEU:C	2.16	0.69
1:E:461:MET:HE1	1:E:465:LEU:HD23	1.74	0.69
1:E:496:HIS:O	1:E:653:HIS:HE1	1.76	0.69
2:G:327:MET:HE2	2:G:334:VAL:HG12	1.74	0.69
2:H:96:ARG:HA	2:H:125:LYS:HD2	1.75	0.69
2:H:96:ARG:HG3	2:H:97:ILE:HG23	1.73	0.69
2:H:322:ARG:HD2	2:H:326:ASN:HD21	1.58	0.69
2:H:439:ALA:HB1	2:H:443:ILE:HD11	1.72	0.69
2:J:165:GLU:OE2	2:J:458:ARG:HA	1.92	0.69
2:J:179:TYR:CB	2:J:181:ARG:HH12	2.05	0.69
2:K:77:LEU:HA	2:K:127:ILE:HD11	1.75	0.69
2:K:121:GLY:O	2:K:125:LYS:HD3	1.92	0.69
2:K:418:THR:HG21	2:K:422:THR:HG23	1.74	0.69
2:L:122:SER:HA	2:L:125:LYS:HE3	1.75	0.69
2:L:197:LYS:HE2	2:L:275:ASP:N	2.07	0.69
2:L:321:ARG:HB2	2:L:351:GLU:CA	2.23	0.69
1:A:208:HIS:CE1	1:A:223:GLN:OE1	2.45	0.69
1:A:414:LYS:HB3	1:A:415:PRO:CD	2.23	0.69
1:A:974:ILE:CD1	1:A:983:LEU:HD12	2.19	0.69
1:B:604:VAL:HG23	1:B:640:THR:HG21	1.73	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1008:THR:CG2	1:B:1009:ILE:N	2.55	0.69
1:B:1053:HIS:CE1	1:B:1062:ARG:NH1	2.60	0.69
1:B:1112:THR:O	2:G:112:GLN:NE2	2.19	0.69
1:D:780:ARG:HG2	2:H:51:GLY:O	1.92	0.69
1:D:1414:ARG:NH2	1:D:1455:TRP:CZ2	2.60	0.69
1:E:113:ASN:HD22	1:E:114:VAL:N	1.89	0.69
1:E:208:HIS:CE1	1:E:223:GLN:OE1	2.45	0.69
1:F:59:VAL:HG21	1:F:105:TYR:CD2	2.27	0.69
1:F:1090:PHE:N	1:F:1090:PHE:CD1	2.60	0.69
1:F:1121:ASP:OD1	1:F:1122:ASP:N	2.25	0.69
1:F:1253:LYS:O	1:F:1253:LYS:HG3	1.91	0.69
1:F:1348:VAL:O	1:F:1348:VAL:HG13	1.92	0.69
2:G:477:ALA:O	2:G:478:VAL:HG13	1.92	0.69
2:H:366:ARG:HD3	2:H:389:THR:OG1	1.91	0.69
2:I:165:GLU:OE2	2:I:458:ARG:HA	1.92	0.69
2:J:77:LEU:HA	2:J:127:ILE:CD1	2.22	0.69
2:J:77:LEU:HA	2:J:127:ILE:HD11	1.75	0.69
2:J:197:LYS:HE2	2:J:275:ASP:N	2.08	0.69
2:J:326:ASN:O	2:J:328:PRO:HD3	1.91	0.69
2:K:319:LEU:CB	2:K:345:ILE:HD11	2.23	0.69
2:K:321:ARG:HA	2:K:352:GLY:N	2.08	0.69
2:K:322:ARG:HD2	2:K:326:ASN:HD21	1.58	0.69
2:K:451:VAL:HA	2:K:454:ILE:HG22	1.75	0.69
1:A:358:THR:HB	1:A:360:ASP:OD1	1.92	0.69
1:A:1019:ASP:OD2	1:A:1204:ARG:HB2	1.92	0.69
1:A:1311:THR:CG2	1:A:1312:SER:N	2.55	0.69
1:B:296:MET:O	1:B:297:MET:C	2.33	0.69
1:C:313:HIS:O	1:C:317:ILE:HG13	1.93	0.69
1:D:302:ALA:HB2	1:D:347:ARG:NH1	2.07	0.69
1:D:782:ARG:HH21	2:H:51:GLY:CA	0.99	0.69
1:E:240:ASN:HD21	1:E:327:TRP:HA	1.58	0.69
1:E:253:HIS:CE1	1:E:254:PRO:CD	2.62	0.69
1:E:1221:PRO:CG	1:E:1229:MET:CE	2.70	0.69
1:F:734:LEU:HD12	1:F:738:HIS:CD2	2.25	0.69
1:F:1059:ASN:N	1:F:1059:ASN:HD22	1.91	0.69
1:F:1135:VAL:O	1:F:1136:VAL:C	2.33	0.69
2:G:321:ARG:HB2	2:G:351:GLU:CA	2.23	0.69
2:G:416:LYS:HE3	2:G:433:ASN:CG	2.18	0.69
2:G:451:VAL:HA	2:G:454:ILE:HG22	1.75	0.69
2:H:295:LEU:O	2:H:398:ALA:HB3	1.92	0.69
2:I:77:LEU:HA	2:I:127:ILE:CD1	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:321:ARG:HA	2:I:352:GLY:N	2.08	0.69
2:I:322:ARG:HD2	2:I:326:ASN:HD21	1.58	0.69
2:J:165:GLU:HB3	2:J:169:LYS:HZ3	1.57	0.69
2:J:322:ARG:HD2	2:J:326:ASN:HD21	1.58	0.69
2:K:416:LYS:HE3	2:K:433:ASN:CG	2.18	0.69
2:L:90:PHE:CD2	2:L:203:ARG:HG3	2.27	0.69
2:L:220:VAL:CG2	8:L:484:FAD:N1A	2.56	0.69
2:L:406:LEU:HD22	2:L:406:LEU:H	1.57	0.69
2:L:420:TRP:HB2	2:L:422:THR:HG22	1.73	0.69
1:A:313:HIS:O	1:A:317:ILE:HG13	1.93	0.69
1:A:345:MET:CG	1:A:346:ASP:N	2.55	0.69
1:A:479:MET:CG	1:A:1104:MET:HE1	2.15	0.69
1:A:1276:LEU:HD12	1:A:1277:GLY:N	2.08	0.69
1:A:1291:ASP:OD1	1:A:1291:ASP:C	2.35	0.69
1:B:426:LEU:HD22	1:B:543:LEU:HB3	1.73	0.69
1:B:1054:GLN:O	1:B:1057:THR:N	2.26	0.69
1:B:1438:ARG:HD2	2:H:377:ARG:N	1.49	0.69
1:C:9:ILE:HG13	1:C:361:GLY:O	1.93	0.69
1:C:1291:ASP:OD1	1:C:1291:ASP:C	2.35	0.69
1:D:419:TRP:O	1:D:540:THR:HG21	1.92	0.69
1:D:783:LYS:HE2	2:H:57:VAL:CG1	2.17	0.69
1:D:932:VAL:O	1:D:933:ALA:HB2	1.92	0.69
1:D:1105:VAL:HG13	1:D:1107:GLN:HG3	1.74	0.69
1:D:1121:ASP:OD1	1:D:1122:ASP:N	2.25	0.69
1:D:1447:TRP:CE2	1:D:1451:VAL:HG22	2.28	0.69
1:D:1449:ARG:O	1:D:1452:THR:HB	1.93	0.69
1:E:8:ALA:HA	1:E:362:LEU:HD12	1.75	0.69
1:E:345:MET:HE1	1:E:385:LEU:HB2	1.74	0.69
1:E:413:LEU:O	1:E:414:LYS:CD	2.40	0.69
1:E:1276:LEU:HD12	1:E:1277:GLY:N	2.08	0.69
1:E:1311:THR:CG2	1:E:1312:SER:N	2.55	0.69
1:E:1388:THR:O	1:E:1388:THR:HG22	1.93	0.69
1:F:426:LEU:HD22	1:F:543:LEU:HB3	1.73	0.69
1:F:442:MET:HG3	1:F:673:GLU:OE2	1.93	0.69
1:F:1447:TRP:CE2	1:F:1451:VAL:HG22	2.28	0.69
2:G:179:TYR:CB	2:G:181:ARG:HH12	2.05	0.69
2:G:241:GLY:N	2:G:443:ILE:HG23	2.07	0.69
2:G:319:LEU:CB	2:G:345:ILE:HD11	2.23	0.69
2:H:321:ARG:HA	2:H:352:GLY:N	2.08	0.69
2:H:326:ASN:O	2:H:328:PRO:HD3	1.91	0.69
2:H:368:HIS:CE1	2:H:387:GLU:HG3	2.27	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:420:TRP:HB2	2:H:422:THR:HG22	1.73	0.69
2:I:77:LEU:HA	2:I:127:ILE:HD11	1.75	0.69
2:I:181:ARG:O	2:I:182:MET:HE3	1.93	0.69
2:I:295:LEU:O	2:I:398:ALA:HB3	1.92	0.69
2:I:368:HIS:CE1	2:I:387:GLU:HG3	2.27	0.69
2:I:406:LEU:HD22	2:I:406:LEU:H	1.57	0.69
2:J:194:LYS:HD2	2:J:306:ARG:HH21	1.57	0.69
2:J:197:LYS:HG2	2:J:273:LEU:HD12	1.73	0.69
2:J:321:ARG:HA	2:J:352:GLY:N	2.08	0.69
2:J:327:MET:HE2	2:J:334:VAL:HG12	1.74	0.69
2:J:417:VAL:HG12	2:J:418:THR:O	1.92	0.69
2:J:418:THR:HG21	2:J:422:THR:HG23	1.74	0.69
2:J:451:VAL:HA	2:J:454:ILE:HG22	1.75	0.69
2:K:90:PHE:CD2	2:K:203:ARG:HG3	2.27	0.69
2:K:449:LEU:CD1	2:K:451:VAL:HG12	2.22	0.69
2:K:469:LYS:HZ3	2:K:476:VAL:HA	1.57	0.69
2:L:96:ARG:HG3	2:L:97:ILE:HG23	1.73	0.69
2:L:100:GLN:CB	2:L:105:GLU:HG2	2.22	0.69
2:L:368:HIS:CE1	2:L:387:GLU:HG3	2.27	0.69
1:A:1221:PRO:CG	1:A:1229:MET:CE	2.70	0.69
1:A:1221:PRO:HG2	1:A:1229:MET:CE	2.23	0.69
1:B:603:HIS:CA	1:B:640:THR:CG2	2.71	0.69
1:C:52:GLN:CD	1:C:71:LEU:H	2.01	0.69
1:D:1054:GLN:O	1:D:1057:THR:N	2.26	0.69
1:F:782:ARG:HD3	2:I:53:PRO:CD	2.09	0.69
2:G:44:ALA:HA	2:G:69:LEU:CD1	2.22	0.69
2:G:77:LEU:HA	2:G:127:ILE:CD1	2.22	0.69
2:H:319:LEU:CB	2:H:345:ILE:HD11	2.23	0.69
2:H:440:ALA:CB	2:H:456:ASP:HB3	2.19	0.69
2:I:417:VAL:HG12	2:I:418:THR:O	1.92	0.69
2:J:71:LEU:CG	2:J:79:GLU:HB2	2.20	0.69
2:J:96:ARG:HA	2:J:125:LYS:HD2	1.75	0.69
2:J:181:ARG:O	2:J:182:MET:HE3	1.93	0.69
2:K:165:GLU:OE2	2:K:458:ARG:HA	1.92	0.69
2:L:321:ARG:HA	2:L:352:GLY:N	2.08	0.69
1:A:447:LEU:CD1	1:A:451:GLN:HG3	2.23	0.69
1:A:985:TYR:CE1	1:A:1207:VAL:HG13	2.28	0.69
1:B:780:ARG:HG2	2:G:51:GLY:O	1.92	0.69
1:B:985:TYR:CE1	1:B:1207:VAL:CG1	2.75	0.69
1:B:1449:ARG:O	1:B:1452:THR:HB	1.93	0.69
1:F:657:VAL:O	1:F:658:LEU:C	2.32	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:907:ILE:HG23	1:F:927:GLU:HG2	1.73	0.69
2:G:220:VAL:CG2	8:G:484:FAD:N1A	2.56	0.69
2:G:321:ARG:HA	2:G:352:GLY:N	2.08	0.69
2:H:165:GLU:OE2	2:H:458:ARG:HA	1.92	0.69
2:J:319:LEU:CB	2:J:345:ILE:HD11	2.23	0.69
2:J:478:VAL:HG23	2:J:479:ALA:H	1.56	0.69
2:L:34:ARG:HG3	2:L:125:LYS:HE2	1.74	0.69
2:L:179:TYR:CB	2:L:181:ARG:HH12	2.05	0.69
2:L:416:LYS:HE3	2:L:433:ASN:CG	2.18	0.69
1:A:295:LYS:HZ3	1:A:299:VAL:HG12	1.57	0.68
1:A:454:PHE:CD2	1:A:648:GLU:HB2	2.28	0.68
1:B:515:ARG:HD2	1:B:1367:TYR:HE1	1.49	0.68
1:B:794:VAL:HG12	1:B:795:ILE:N	2.07	0.68
1:B:885:GLY:C	1:B:887:GLY:H	2.01	0.68
1:C:152:ARG:O	1:C:156:GLU:HB2	1.94	0.68
1:C:1311:THR:CG2	1:C:1312:SER:N	2.55	0.68
1:D:386:GLY:O	1:D:389:GLU:HG3	1.93	0.68
1:E:414:LYS:HB3	1:E:415:PRO:CD	2.23	0.68
1:F:985:TYR:CE1	1:F:1207:VAL:CG1	2.75	0.68
2:H:77:LEU:HA	2:H:127:ILE:HD11	1.75	0.68
2:H:90:PHE:HB3	2:H:93:ILE:HG21	1.76	0.68
2:I:179:TYR:CB	2:I:181:ARG:HH12	2.05	0.68
2:I:194:LYS:HD2	2:I:306:ARG:HH21	1.57	0.68
2:I:241:GLY:N	2:I:443:ILE:HG23	2.07	0.68
2:J:122:SER:HA	2:J:125:LYS:HE3	1.75	0.68
2:K:327:MET:HB2	2:K:346:TRP:HH2	1.54	0.68
2:L:71:LEU:HD21	2:L:76:ARG:O	1.93	0.68
2:L:322:ARG:HD2	2:L:326:ASN:HD21	1.58	0.68
1:A:94:GLU:O	1:A:95:THR:C	2.35	0.68
1:A:1449:ARG:HB2	1:A:1449:ARG:CZ	2.19	0.68
1:B:389:GLU:CB	1:B:403:ASP:OD2	2.40	0.68
1:B:602:THR:C	1:B:640:THR:HG23	2.17	0.68
1:B:1105:VAL:HG13	1:B:1107:GLN:HG3	1.74	0.68
1:C:358:THR:HB	1:C:360:ASP:OD1	1.92	0.68
1:C:1317:THR:HG21	1:C:1358:GLU:OE1	1.92	0.68
1:D:211:TYR:HD1	1:D:212:SER:H	1.42	0.68
1:D:950:THR:CG2	1:D:951:GLU:H	2.06	0.68
1:E:985:TYR:CE1	1:E:1207:VAL:HG13	2.28	0.68
1:F:932:VAL:O	1:F:933:ALA:HB2	1.92	0.68
1:F:1388:THR:O	1:F:1388:THR:HG22	1.94	0.68
1:F:1449:ARG:O	1:F:1452:THR:HB	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:418:THR:HG21	2:G:422:THR:HG23	1.74	0.68
2:H:417:VAL:HG12	2:H:418:THR:O	1.92	0.68
2:I:321:ARG:HB2	2:I:351:GLU:CA	2.23	0.68
2:I:321:ARG:CB	2:I:351:GLU:HA	2.21	0.68
2:I:451:VAL:HA	2:I:454:ILE:HG22	1.75	0.68
2:J:148:LEU:HB3	2:J:234:VAL:HG21	1.75	0.68
2:J:295:LEU:O	2:J:398:ALA:HB3	1.92	0.68
2:J:449:LEU:CD1	2:J:451:VAL:HG12	2.22	0.68
2:K:96:ARG:HA	2:K:125:LYS:HD2	1.75	0.68
2:K:440:ALA:CB	2:K:456:ASP:HB3	2.19	0.68
2:L:295:LEU:O	2:L:398:ALA:HB3	1.92	0.68
1:A:152:ARG:O	1:A:156:GLU:HB2	1.94	0.68
1:A:253:HIS:CE1	1:A:254:PRO:CD	2.62	0.68
1:A:746:ILE:HG23	1:A:1182:ASP:H	1.54	0.68
1:A:1388:THR:O	1:A:1388:THR:HG22	1.93	0.68
1:B:419:TRP:O	1:B:540:THR:HG21	1.92	0.68
1:B:447:LEU:CD1	1:B:451:GLN:HG3	2.22	0.68
1:B:657:VAL:O	1:B:658:LEU:C	2.32	0.68
1:B:1102:CYS:HG	6:B:2476:F3S:FE1	1.09	0.68
1:C:8:ALA:HA	1:C:362:LEU:HD12	1.75	0.68
1:C:1019:ASP:OD2	1:C:1204:ARG:HB2	1.93	0.68
1:C:1412:PHE:HA	1:C:1456:GLN:O	1.94	0.68
1:D:454:PHE:HE2	1:D:647:ALA:HB3	1.58	0.68
1:D:731:SER:O	1:D:735:VAL:HG23	1.93	0.68
1:E:52:GLN:HE22	1:E:71:LEU:HB2	1.59	0.68
1:E:208:HIS:CD2	1:E:209:GLN:O	2.46	0.68
1:F:113:ASN:HD22	1:F:114:VAL:N	1.91	0.68
2:G:90:PHE:CD2	2:G:203:ARG:HG3	2.27	0.68
2:G:449:LEU:CD1	2:G:451:VAL:HG12	2.22	0.68
2:H:416:LYS:HE3	2:H:433:ASN:CG	2.18	0.68
2:K:44:ALA:HA	2:K:69:LEU:CD1	2.22	0.68
1:A:1121:ASP:OD2	1:A:1124:LEU:HB2	1.92	0.68
1:B:1388:THR:O	1:B:1388:THR:HG22	1.94	0.68
1:C:447:LEU:CD1	1:C:451:GLN:HG3	2.23	0.68
1:C:454:PHE:CD2	1:C:648:GLU:HB2	2.28	0.68
1:C:985:TYR:CE1	1:C:1207:VAL:HG13	2.28	0.68
1:D:37:ASP:OD1	1:D:37:ASP:C	2.37	0.68
1:D:182:MET:HE1	1:D:217:PRO:CA	2.23	0.68
1:F:309:THR:HB	1:F:314:LYS:HE3	1.74	0.68
2:G:122:SER:HA	2:G:125:LYS:HE3	1.75	0.68
2:H:181:ARG:O	2:H:182:MET:HE3	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:197:LYS:HE2	2:I:275:ASP:N	2.08	0.68
2:I:317:LYS:HE3	2:I:345:ILE:CG1	2.24	0.68
2:J:249:LYS:HE2	2:J:258:ILE:CD1	2.24	0.68
2:J:317:LYS:HE3	2:J:345:ILE:CG1	2.24	0.68
2:K:295:LEU:O	2:K:398:ALA:HB3	1.92	0.68
1:A:413:LEU:O	1:A:414:LYS:CD	2.40	0.68
1:A:732:ARG:H	1:A:747:SER:CB	2.07	0.68
1:B:731:SER:O	1:B:735:VAL:HG23	1.93	0.68
1:B:1442:GLU:OE2	2:H:375:THR:CA	2.42	0.68
1:B:1447:TRP:CE2	1:B:1451:VAL:HG22	2.28	0.68
1:C:59:VAL:HG21	1:C:105:TYR:CE2	2.27	0.68
1:C:461:MET:HE1	1:C:465:LEU:HD23	1.74	0.68
1:C:479:MET:CG	1:C:1104:MET:HE1	2.15	0.68
1:D:515:ARG:CD	1:D:1367:TYR:HE1	2.04	0.68
1:D:1059:ASN:N	1:D:1059:ASN:HD22	1.91	0.68
1:D:1090:PHE:N	1:D:1090:PHE:CD1	2.60	0.68
1:E:52:GLN:CD	1:E:71:LEU:H	2.01	0.68
1:E:122:ASN:OD1	1:E:125:ARG:NH1	2.25	0.68
1:E:447:LEU:CD1	1:E:451:GLN:HG3	2.23	0.68
1:E:454:PHE:CD2	1:E:648:GLU:HB2	2.28	0.68
1:E:491:LYS:O	1:E:492:TYR:C	2.35	0.68
1:E:505:GLN:HE21	1:E:1001:VAL:H	1.33	0.68
1:E:1019:ASP:OD2	1:E:1204:ARG:HB2	1.93	0.68
1:F:731:SER:O	1:F:735:VAL:HG23	1.93	0.68
2:G:34:ARG:HG3	2:G:125:LYS:HE2	1.73	0.68
2:H:148:LEU:HB3	2:H:234:VAL:HG21	1.75	0.68
2:H:152:VAL:CG1	2:H:175:VAL:HA	2.12	0.68
2:I:71:LEU:HD21	2:I:76:ARG:O	1.93	0.68
2:I:478:VAL:HG23	2:I:479:ALA:H	1.56	0.68
2:K:148:LEU:HB3	2:K:234:VAL:CG2	2.24	0.68
2:K:321:ARG:HB2	2:K:351:GLU:CA	2.23	0.68
2:L:148:LEU:HB3	2:L:234:VAL:CG2	2.24	0.68
2:L:241:GLY:N	2:L:443:ILE:HG23	2.07	0.68
1:A:240:ASN:HD21	1:A:327:TRP:HA	1.58	0.68
1:A:491:LYS:O	1:A:492:TYR:C	2.35	0.68
1:A:896:PRO:HB3	1:C:1227:GLU:N	2.08	0.68
1:A:1227:GLU:N	1:E:896:PRO:HB3	2.08	0.68
1:B:122:ASN:OD1	1:B:125:ARG:NH1	2.26	0.68
1:B:732:ARG:H	1:B:747:SER:HB3	1.57	0.68
1:B:783:LYS:CE	2:G:57:VAL:CG1	2.36	0.68
1:B:1348:VAL:O	1:B:1348:VAL:HG13	1.91	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:52:GLN:HE22	1:C:71:LEU:HB2	1.59	0.68
1:C:426:LEU:HD23	1:C:426:LEU:H	1.59	0.68
1:E:9:ILE:HG13	1:E:361:GLY:O	1.93	0.68
1:E:102:TYR:CD2	1:E:144:PHE:CE1	2.82	0.68
1:E:414:LYS:HB3	1:E:415:PRO:HD3	1.76	0.68
1:E:913:GLY:HA2	1:E:1349:ARG:HD3	1.76	0.68
2:G:146:LEU:HD23	2:G:147:GLY:N	2.09	0.68
2:G:322:ARG:HD2	2:G:326:ASN:HD21	1.58	0.68
2:I:148:LEU:HB3	2:I:234:VAL:HG21	1.75	0.68
2:I:249:LYS:HE2	2:I:258:ILE:CD1	2.24	0.68
2:J:90:PHE:HB3	2:J:93:ILE:HG21	1.76	0.68
2:J:95:GLY:C	2:J:125:LYS:HD2	2.19	0.68
2:L:249:LYS:HE2	2:L:258:ILE:CD1	2.24	0.68
1:B:450:ARG:O	1:B:451:GLN:C	2.35	0.68
1:C:289:ARG:NH2	1:C:532:ILE:O	2.27	0.68
1:D:442:MET:HG3	1:D:673:GLU:OE2	1.93	0.68
1:D:826:ARG:HG2	1:D:1046:GLU:OE2	1.93	0.68
1:E:310:PRO:CG	1:E:404:ARG:NH2	2.56	0.68
1:F:107:TRP:H	1:F:107:TRP:CD1	2.12	0.68
1:F:107:TRP:CD1	1:F:107:TRP:N	2.59	0.68
1:F:1054:GLN:O	1:F:1057:THR:N	2.26	0.68
2:G:68:TRP:CZ3	2:G:84:SER:HB3	2.29	0.68
2:G:165:GLU:OE2	2:G:458:ARG:HA	1.92	0.68
2:G:197:LYS:HG2	2:G:273:LEU:HD12	1.73	0.68
2:G:469:LYS:HZ3	2:G:476:VAL:HA	1.58	0.68
2:H:148:LEU:HB3	2:H:234:VAL:CG2	2.24	0.68
2:I:319:LEU:CB	2:I:345:ILE:HD11	2.23	0.68
2:I:449:LEU:CD1	2:I:451:VAL:HG12	2.22	0.68
2:L:165:GLU:OE2	2:L:458:ARG:HA	1.92	0.68
2:L:181:ARG:O	2:L:182:MET:HE3	1.93	0.68
2:L:448:SER:H	2:L:452:TRP:HZ3	1.42	0.68
1:A:426:LEU:HD23	1:A:426:LEU:H	1.59	0.68
1:A:1227:GLU:HG3	1:E:902:ASN:ND2	2.07	0.68
1:B:37:ASP:OD1	1:B:37:ASP:C	2.37	0.68
1:B:454:PHE:HE2	1:B:647:ALA:HB3	1.58	0.68
1:B:1466:LEU:O	1:B:1467:GLU:C	2.37	0.68
1:C:172:LEU:O	1:C:172:LEU:HG	1.94	0.68
1:C:295:LYS:HD3	1:C:295:LYS:C	2.19	0.68
1:C:1276:LEU:HD12	1:C:1277:GLY:N	2.08	0.68
1:C:1438:ARG:HB3	2:J:375:THR:CA	2.14	0.68
1:D:295:LYS:HZ3	1:D:299:VAL:HG12	1.58	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:355:TYR:C	1:D:355:TYR:CD1	2.72	0.68
1:E:295:LYS:HD3	1:E:295:LYS:C	2.19	0.68
1:E:358:THR:HB	1:E:360:ASP:OD1	1.92	0.68
1:E:661:VAL:HG12	1:E:661:VAL:O	1.94	0.68
1:E:1412:PHE:HA	1:E:1456:GLN:O	1.94	0.68
1:E:1415:ILE:HG21	1:E:1421:GLU:HB2	1.75	0.68
1:F:938:PRO:O	1:F:939:GLY:C	2.35	0.68
1:F:1114:PRO:O	2:I:112:GLN:CA	2.41	0.68
2:G:152:VAL:HG13	2:G:175:VAL:CA	2.15	0.68
2:H:146:LEU:HD23	2:H:147:GLY:N	2.09	0.68
2:H:317:LYS:HE3	2:H:345:ILE:CG1	2.24	0.68
2:I:95:GLY:C	2:I:125:LYS:HD2	2.19	0.68
2:I:148:LEU:HB3	2:I:234:VAL:CG2	2.24	0.68
2:J:416:LYS:HE3	2:J:433:ASN:CG	2.18	0.68
2:L:96:ARG:HD3	2:L:195:LEU:HA	1.75	0.68
2:L:317:LYS:HE3	2:L:345:ILE:CG1	2.24	0.68
1:A:52:GLN:CD	1:A:71:LEU:H	2.01	0.68
1:A:143:GLN:C	1:A:143:GLN:HE21	2.01	0.68
1:B:250:ARG:O	1:B:531:ASN:ND2	2.27	0.68
1:B:1114:PRO:O	2:G:112:GLN:CA	2.41	0.68
1:C:208:HIS:CD2	1:C:209:GLN:O	2.46	0.68
1:D:122:ASN:OD1	1:D:125:ARG:NH1	2.26	0.68
1:D:236:THR:CG2	1:D:328:ASP:N	2.52	0.68
1:D:522:LEU:CD2	1:D:705:LEU:HD21	2.24	0.68
1:D:1076:GLY:HA3	1:D:1145:GLU:CG	2.17	0.68
1:E:1362:SER:HA	1:E:1380:GLY:HA3	1.74	0.68
1:E:1458:VAL:HG13	1:E:1459:PRO:HD2	1.76	0.68
1:F:250:ARG:O	1:F:531:ASN:ND2	2.27	0.68
1:F:602:THR:C	1:F:640:THR:HG23	2.17	0.68
2:G:96:ARG:HA	2:G:125:LYS:HD2	1.75	0.68
2:G:290:LYS:HD3	2:G:393:ASP:OD2	1.94	0.68
2:H:71:LEU:HD21	2:H:76:ARG:O	1.93	0.68
2:H:95:GLY:C	2:H:125:LYS:HD2	2.19	0.68
2:I:97:ILE:HD11	2:I:450:VAL:HG11	1.76	0.68
2:J:148:LEU:HB3	2:J:234:VAL:CG2	2.24	0.68
2:K:100:GLN:CB	2:K:105:GLU:HG2	2.22	0.68
2:L:68:TRP:CZ3	2:L:84:SER:HB3	2.29	0.68
2:L:97:ILE:HD11	2:L:450:VAL:HG11	1.76	0.68
1:A:52:GLN:HE22	1:A:71:LEU:HB2	1.59	0.68
1:A:248:GLU:HA	1:A:251:MET:CG	2.22	0.68
1:A:506:VAL:HG11	1:A:980:LEU:HD22	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1458:VAL:HG13	1:A:1459:PRO:HD2	1.76	0.68
1:B:107:TRP:CD1	1:B:107:TRP:H	2.12	0.68
1:B:826:ARG:HG2	1:B:1046:GLU:OE2	1.93	0.68
1:C:1338:ALA:HB3	1:C:1357:VAL:HG22	1.74	0.68
1:D:1114:PRO:O	2:H:112:GLN:CA	2.41	0.68
1:E:313:HIS:O	1:E:317:ILE:HG13	1.93	0.68
1:F:211:TYR:HD1	1:F:212:SER:H	1.42	0.68
1:F:1170:GLN:O	1:F:1170:GLN:CG	2.39	0.68
2:H:322:ARG:CD	2:H:349:ALA:HB1	2.24	0.68
2:H:451:VAL:HA	2:H:454:ILE:HG22	1.75	0.68
2:J:71:LEU:HD21	2:J:76:ARG:O	1.93	0.68
2:J:97:ILE:HD11	2:J:450:VAL:HG11	1.76	0.68
2:J:321:ARG:HB2	2:J:351:GLU:CA	2.23	0.68
2:J:371:VAL:CG2	2:J:386:SER:HB3	2.24	0.68
2:K:68:TRP:CZ3	2:K:84:SER:HB3	2.29	0.68
2:K:197:LYS:HE2	2:K:275:ASP:N	2.08	0.68
2:L:319:LEU:CB	2:L:345:ILE:HD11	2.23	0.68
1:A:208:HIS:CD2	1:A:209:GLN:O	2.46	0.67
1:A:461:MET:CE	1:A:465:LEU:HD23	2.24	0.67
1:A:918:THR:HG22	1:A:920:GLU:H	1.59	0.67
1:A:1221:PRO:HD2	1:A:1229:MET:HE1	1.76	0.67
1:B:113:ASN:HD22	1:B:114:VAL:N	1.91	0.67
1:B:522:LEU:CD2	1:B:705:LEU:HD21	2.24	0.67
1:B:768:GLU:HG2	1:B:769:GLU:N	2.09	0.67
1:C:414:LYS:HB3	1:C:415:PRO:HD3	1.76	0.67
1:C:777:GLY:O	1:C:788:HIS:HE1	1.77	0.67
1:E:172:LEU:O	1:E:172:LEU:HG	1.94	0.67
1:E:442:MET:HE1	1:E:447:LEU:HA	1.76	0.67
1:F:113:ASN:ND2	1:F:113:ASN:C	2.49	0.67
1:F:386:GLY:O	1:F:389:GLU:HG3	1.93	0.67
1:F:1466:LEU:O	1:F:1467:GLU:C	2.37	0.67
2:G:148:LEU:HB3	2:G:234:VAL:CG2	2.24	0.67
2:G:317:LYS:HE3	2:G:345:ILE:CG1	2.24	0.67
2:H:100:GLN:CB	2:H:105:GLU:HG2	2.22	0.67
2:H:449:LEU:CD1	2:H:451:VAL:HG12	2.22	0.67
2:I:322:ARG:CD	2:I:349:ALA:HB1	2.24	0.67
2:L:96:ARG:HA	2:L:125:LYS:HD2	1.75	0.67
2:L:148:LEU:HB3	2:L:234:VAL:HG21	1.75	0.67
2:L:418:THR:HG21	2:L:422:THR:HG23	1.74	0.67
1:A:1394:VAL:HG11	1:A:1401:LEU:HD22	1.76	0.67
1:B:266:VAL:HG12	1:B:279:THR:HG23	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:985:TYR:CE1	1:B:1207:VAL:HG13	2.27	0.67
1:C:693:MET:O	1:C:694:ALA:C	2.37	0.67
1:C:1375:ILE:C	1:C:1376:LEU:HD23	2.19	0.67
1:D:250:ARG:O	1:D:531:ASN:ND2	2.27	0.67
1:D:309:THR:HB	1:D:314:LYS:HE3	1.74	0.67
1:D:1438:ARG:HD2	2:I:377:ARG:N	1.49	0.67
1:E:353:MET:HE3	1:E:366:GLY:O	1.94	0.67
1:E:426:LEU:HD23	1:E:426:LEU:H	1.59	0.67
1:E:732:ARG:H	1:E:747:SER:CB	2.07	0.67
1:F:843:VAL:CG1	1:F:844:GLU:N	2.58	0.67
1:F:1112:THR:O	2:I:112:GLN:NE2	2.19	0.67
2:G:77:LEU:HA	2:G:127:ILE:HD11	1.75	0.67
2:H:97:ILE:HD11	2:H:450:VAL:HG11	1.76	0.67
2:H:321:ARG:HB2	2:H:351:GLU:CA	2.23	0.67
2:I:96:ARG:HD3	2:I:195:LEU:HA	1.75	0.67
2:J:181:ARG:CD	2:J:187:VAL:HG11	2.25	0.67
2:K:95:GLY:C	2:K:125:LYS:HD2	2.19	0.67
1:A:8:ALA:HA	1:A:362:LEU:HD12	1.75	0.67
1:A:9:ILE:HG13	1:A:361:GLY:O	1.93	0.67
1:B:732:ARG:H	1:B:747:SER:CB	2.07	0.67
1:C:4:GLY:HA3	1:C:207:TYR:CZ	2.29	0.67
1:C:94:GLU:O	1:C:95:THR:C	2.35	0.67
1:C:299:VAL:O	1:C:299:VAL:CG1	2.43	0.67
1:C:353:MET:HE3	1:C:366:GLY:O	1.94	0.67
1:C:732:ARG:H	1:C:747:SER:CB	2.07	0.67
1:C:746:ILE:C	1:C:747:SER:O	2.35	0.67
1:C:824:GLN:CA	1:C:824:GLN:NE2	2.57	0.67
1:C:1221:PRO:HD2	1:C:1229:MET:HE1	1.76	0.67
1:D:107:TRP:CD1	1:D:107:TRP:H	2.12	0.67
1:D:107:TRP:CD1	1:D:107:TRP:N	2.59	0.67
1:D:732:ARG:H	1:D:747:SER:CB	2.07	0.67
1:D:782:ARG:HG2	2:H:53:PRO:HD2	0.77	0.67
1:D:1466:LEU:O	1:D:1467:GLU:C	2.37	0.67
1:E:450:ARG:O	1:E:451:GLN:C	2.37	0.67
1:E:695:ASN:O	1:E:696:TYR:C	2.37	0.67
1:E:1394:VAL:HG11	1:E:1401:LEU:HD22	1.76	0.67
1:F:139:VAL:CG1	1:F:143:GLN:HB2	2.25	0.67
1:F:603:HIS:CA	1:F:640:THR:CG2	2.71	0.67
1:F:1442:GLU:OE2	2:G:374:ALA:C	2.38	0.67
2:G:175:VAL:CG1	2:G:214:TYR:HA	2.23	0.67
2:G:448:SER:H	2:G:452:TRP:HZ3	1.42	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:153:ILE:HG23	2:H:238:VAL:HA	1.76	0.67
2:K:71:LEU:HD21	2:K:76:ARG:O	1.93	0.67
2:K:153:ILE:HG23	2:K:238:VAL:HA	1.76	0.67
2:K:249:LYS:HE2	2:K:258:ILE:CD1	2.24	0.67
2:K:317:LYS:HE3	2:K:345:ILE:CG1	2.24	0.67
2:L:451:VAL:HA	2:L:454:ILE:HG22	1.75	0.67
1:A:4:GLY:HA3	1:A:207:TYR:CZ	2.29	0.67
1:A:414:LYS:HB3	1:A:415:PRO:HD3	1.76	0.67
1:A:1105:VAL:HG13	1:A:1107:GLN:HG3	1.76	0.67
1:A:1220:ARG:N	1:A:1221:PRO:HD2	2.10	0.67
1:B:478:SER:O	1:B:1106:ARG:NH1	2.28	0.67
1:C:446:GLU:O	1:C:447:LEU:C	2.36	0.67
1:C:1220:ARG:N	1:C:1221:PRO:HD2	2.10	0.67
1:E:143:GLN:C	1:E:143:GLN:HE21	2.01	0.67
1:E:152:ARG:O	1:E:156:GLU:HB2	1.94	0.67
1:E:359:THR:HG23	1:E:378:GLN:O	1.94	0.67
1:E:1194:GLU:HB2	1:F:115:ASP:OD2	1.95	0.67
1:F:146:LEU:HD12	1:F:146:LEU:C	2.19	0.67
1:F:1442:GLU:OE2	2:G:375:THR:CA	2.42	0.67
2:H:96:ARG:HD3	2:H:195:LEU:HA	1.75	0.67
2:H:290:LYS:HD3	2:H:393:ASP:OD2	1.94	0.67
2:J:96:ARG:HD3	2:J:195:LEU:HA	1.75	0.67
2:J:290:LYS:HD3	2:J:393:ASP:OD2	1.94	0.67
2:K:122:SER:HA	2:K:125:LYS:HE3	1.75	0.67
2:K:181:ARG:O	2:K:182:MET:HE3	1.93	0.67
2:L:44:ALA:HA	2:L:69:LEU:CD1	2.22	0.67
2:L:77:LEU:HA	2:L:127:ILE:HD11	1.75	0.67
2:L:95:GLY:C	2:L:125:LYS:HD2	2.19	0.67
2:L:146:LEU:HD23	2:L:147:GLY:N	2.09	0.67
2:L:322:ARG:CD	2:L:349:ALA:HB1	2.24	0.67
1:A:139:VAL:HG11	1:A:143:GLN:HB3	1.77	0.67
1:A:299:VAL:O	1:A:299:VAL:CG1	2.43	0.67
1:B:442:MET:HG3	1:B:673:GLU:OE2	1.93	0.67
1:B:447:LEU:HD12	1:B:451:GLN:CG	2.23	0.67
1:C:515:ARG:HD2	1:C:1367:TYR:HE1	1.46	0.67
1:C:896:PRO:HB3	1:E:1227:GLU:N	2.08	0.67
1:C:1388:THR:O	1:C:1388:THR:HG22	1.93	0.67
1:C:1394:VAL:HG11	1:C:1401:LEU:HD22	1.76	0.67
1:D:559:ARG:HD2	1:D:605:ILE:CD1	2.25	0.67
1:D:728:ILE:HD12	1:D:1047:MET:HE1	1.74	0.67
1:D:838:VAL:CG1	1:D:839:PRO:CD	2.73	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:289:ARG:NH2	1:E:532:ILE:O	2.27	0.67
1:E:461:MET:CE	1:E:465:LEU:HD23	2.24	0.67
1:E:777:GLY:O	1:E:788:HIS:HE1	1.77	0.67
2:G:249:LYS:HE2	2:G:258:ILE:CD1	2.24	0.67
2:H:249:LYS:HE2	2:H:258:ILE:CD1	2.24	0.67
2:H:259:VAL:HG21	2:H:264:TYR:CB	2.14	0.67
2:I:96:ARG:HA	2:I:125:LYS:HD2	1.75	0.67
2:I:371:VAL:CG2	2:I:386:SER:HB3	2.24	0.67
2:K:322:ARG:CD	2:K:349:ALA:HB1	2.24	0.67
2:K:331:GLN:O	2:K:334:VAL:HG23	1.95	0.67
2:L:71:LEU:C	2:L:71:LEU:HD13	2.20	0.67
2:L:371:VAL:CG2	2:L:386:SER:HB3	2.24	0.67
1:A:960:THR:CG2	1:A:963:VAL:CG2	2.73	0.67
1:B:146:LEU:HD12	1:B:146:LEU:C	2.19	0.67
1:B:1058:LEU:HD22	1:B:1058:LEU:O	1.95	0.67
1:C:359:THR:HG23	1:C:378:GLN:O	1.95	0.67
1:C:695:ASN:O	1:C:696:TYR:C	2.37	0.67
1:C:1144:GLU:O	1:C:1144:GLU:HG3	1.95	0.67
1:C:1194:GLU:HB2	1:D:115:ASP:OD2	1.95	0.67
1:C:1221:PRO:HG2	1:C:1229:MET:CE	2.23	0.67
1:C:1458:VAL:HG13	1:C:1459:PRO:HD2	1.76	0.67
1:D:734:LEU:HD12	1:D:738:HIS:CD2	2.25	0.67
1:D:1135:VAL:O	1:D:1136:VAL:C	2.33	0.67
1:D:1442:GLU:OE2	2:I:375:THR:CA	2.42	0.67
1:F:37:ASP:OD1	1:F:37:ASP:C	2.37	0.67
2:G:181:ARG:O	2:G:182:MET:HE3	1.93	0.67
2:I:68:TRP:CZ3	2:I:84:SER:HB3	2.29	0.67
2:I:416:LYS:HE3	2:I:433:ASN:CG	2.18	0.67
2:J:331:GLN:O	2:J:334:VAL:HG23	1.95	0.67
2:L:290:LYS:HD3	2:L:393:ASP:OD2	1.94	0.67
1:A:289:ARG:NH2	1:A:532:ILE:O	2.27	0.67
1:A:661:VAL:HG12	1:A:661:VAL:O	1.94	0.67
1:B:139:VAL:CG1	1:B:143:GLN:HB2	2.25	0.67
1:C:461:MET:CE	1:C:465:LEU:HD23	2.24	0.67
1:C:1105:VAL:HG13	1:C:1107:GLN:HG3	1.76	0.67
1:D:266:VAL:HG12	1:D:279:THR:HG23	1.76	0.67
1:D:302:ALA:CA	1:D:347:ARG:HH12	2.08	0.67
1:D:478:SER:O	1:D:1106:ARG:NH1	2.28	0.67
1:F:999:LYS:HG2	1:F:1022:LEU:HD23	1.72	0.67
2:G:71:LEU:HD13	2:G:71:LEU:C	2.20	0.67
2:G:331:GLN:O	2:G:334:VAL:HG23	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:371:VAL:CG2	2:G:386:SER:HB3	2.24	0.67
2:H:68:TRP:CZ3	2:H:84:SER:HB3	2.29	0.67
2:H:122:SER:HA	2:H:125:LYS:HE3	1.75	0.67
2:H:165:GLU:HB3	2:H:169:LYS:HZ3	1.59	0.67
2:I:181:ARG:HD3	2:I:187:VAL:CB	2.25	0.67
2:I:290:LYS:HD3	2:I:393:ASP:OD2	1.94	0.67
2:J:471:LYS:HA	2:J:471:LYS:CE	2.23	0.67
2:K:148:LEU:HB3	2:K:234:VAL:HG21	1.75	0.67
2:K:220:VAL:CG2	8:K:484:FAD:N1A	2.56	0.67
1:A:1317:THR:HG21	1:A:1358:GLU:OE1	1.92	0.67
1:B:98:LEU:O	1:B:101:GLY:N	2.25	0.67
1:B:211:TYR:HD1	1:B:212:SER:H	1.42	0.67
1:B:666:VAL:CG1	1:B:667:ASN:N	2.58	0.67
1:B:1102:CYS:SG	6:B:2476:F3S:S2	2.93	0.67
1:C:139:VAL:HG11	1:C:143:GLN:HB3	1.77	0.67
1:C:875:MET:HE1	1:C:1139:PHE:CZ	2.20	0.67
1:C:1104:MET:C	2:K:54:PHE:CZ	2.67	0.67
1:D:113:ASN:HD22	1:D:114:VAL:N	1.92	0.67
1:D:146:LEU:HD12	1:D:146:LEU:C	2.19	0.67
1:D:843:VAL:CG1	1:D:844:GLU:N	2.58	0.67
1:D:1442:GLU:OE2	2:I:374:ALA:C	2.37	0.67
1:E:452:GLN:HG3	1:E:765:ALA:HB2	1.77	0.67
1:E:850:ARG:HH11	1:E:850:ARG:CG	2.08	0.67
1:F:478:SER:O	1:F:1106:ARG:NH1	2.28	0.67
1:F:704:LEU:C	1:F:706:LYS:N	2.49	0.67
1:F:826:ARG:HG2	1:F:1046:GLU:OE2	1.93	0.67
2:G:71:LEU:HD21	2:G:76:ARG:O	1.93	0.67
2:G:368:HIS:ND1	2:G:387:GLU:HG3	2.09	0.67
2:H:71:LEU:HD22	2:H:71:LEU:C	2.20	0.67
2:I:181:ARG:CD	2:I:187:VAL:HG11	2.25	0.67
2:J:448:SER:H	2:J:452:TRP:HZ3	1.42	0.67
2:K:146:LEU:HD23	2:K:147:GLY:N	2.09	0.67
2:L:410:PHE:O	2:L:413:PRO:HD2	1.95	0.67
1:A:442:MET:HE1	1:A:447:LEU:HA	1.76	0.67
1:B:355:TYR:CD1	1:B:355:TYR:C	2.72	0.67
1:B:386:GLY:O	1:B:389:GLU:HG3	1.93	0.67
1:B:838:VAL:CG1	1:B:839:PRO:CD	2.73	0.67
1:C:442:MET:HE1	1:C:447:LEU:HA	1.76	0.67
1:C:454:PHE:HE2	1:C:647:ALA:HB3	1.58	0.67
1:C:491:LYS:O	1:C:492:TYR:C	2.35	0.67
1:C:515:ARG:CD	1:C:1367:TYR:HE1	1.96	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:ARG:CB	2:K:53:PRO:HD2	2.19	0.67
1:C:850:ARG:HH11	1:C:850:ARG:CG	2.08	0.67
1:D:885:GLY:C	1:D:887:GLY:H	2.01	0.67
1:E:336:THR:OG1	1:E:337:ASP:O	2.13	0.67
1:E:746:ILE:HG22	1:E:747:SER:N	2.09	0.67
1:F:122:ASN:OD1	1:F:125:ARG:NH1	2.26	0.67
1:F:782:ARG:N	2:I:52:VAL:HB	2.07	0.67
2:G:451:VAL:O	2:G:454:ILE:HG23	1.95	0.67
2:H:71:LEU:C	2:H:71:LEU:HD13	2.20	0.67
2:H:331:GLN:O	2:H:334:VAL:HG23	1.95	0.67
2:H:448:SER:H	2:H:452:TRP:HZ3	1.42	0.67
2:J:295:LEU:CD2	2:J:319:LEU:HB3	2.25	0.67
2:J:410:PHE:O	2:J:413:PRO:HD2	1.95	0.67
2:K:97:ILE:HD11	2:K:450:VAL:HG11	1.76	0.67
2:K:448:SER:H	2:K:452:TRP:HZ3	1.42	0.67
1:A:454:PHE:HE2	1:A:647:ALA:HB3	1.58	0.67
1:A:1297:GLY:O	1:A:1328:LEU:HA	1.95	0.67
1:B:746:ILE:HD11	1:B:1186:ARG:NH2	2.10	0.67
1:B:1442:GLU:OE2	2:H:374:ALA:C	2.37	0.67
1:C:143:GLN:C	1:C:143:GLN:HE21	2.01	0.67
1:C:746:ILE:O	1:C:747:SER:O	2.13	0.67
1:C:1415:ILE:HG21	1:C:1421:GLU:HB2	1.75	0.67
1:D:139:VAL:CG1	1:D:143:GLN:HB2	2.25	0.67
1:D:394:ASP:OD1	1:D:394:ASP:C	2.38	0.67
1:E:918:THR:HG22	1:E:920:GLU:H	1.59	0.67
1:E:1105:VAL:HG13	1:E:1107:GLN:HG3	1.76	0.67
1:E:1221:PRO:HD2	1:E:1229:MET:HE1	1.76	0.67
1:F:522:LEU:CD2	1:F:705:LEU:HD21	2.24	0.67
1:F:768:GLU:HG2	1:F:769:GLU:N	2.09	0.67
1:F:960:THR:HG22	1:F:963:VAL:HG23	1.77	0.67
2:G:220:VAL:CG2	8:G:484:FAD:N6A	2.55	0.67
2:H:44:ALA:HA	2:H:69:LEU:CD1	2.22	0.67
2:H:220:VAL:CG2	8:H:484:FAD:N1A	2.56	0.67
2:I:418:THR:HG21	2:I:422:THR:HG23	1.74	0.67
2:J:68:TRP:CZ3	2:J:84:SER:HB3	2.29	0.67
2:J:181:ARG:HD3	2:J:187:VAL:CB	2.25	0.67
2:L:49:GLN:NE2	2:L:69:LEU:HG	2.10	0.67
2:L:153:ILE:HG23	2:L:238:VAL:HA	1.76	0.67
1:A:902:ASN:ND2	1:C:1227:GLU:HG3	2.07	0.66
1:A:1412:PHE:HA	1:A:1456:GLN:O	1.94	0.66
1:B:236:THR:CG2	1:B:328:ASP:N	2.52	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:843:VAL:CG1	1:B:844:GLU:N	2.58	0.66
1:C:918:THR:HG22	1:C:920:GLU:H	1.59	0.66
1:C:1311:THR:HG23	1:C:1312:SER:H	1.60	0.66
1:D:454:PHE:HE2	1:D:647:ALA:CB	2.09	0.66
1:D:603:HIS:CA	1:D:640:THR:CG2	2.71	0.66
1:E:4:GLY:HA3	1:E:207:TYR:CZ	2.29	0.66
1:E:454:PHE:CE2	1:E:647:ALA:HB3	2.31	0.66
1:E:1144:GLU:O	1:E:1144:GLU:HG3	1.95	0.66
1:F:950:THR:CG2	1:F:951:GLU:H	2.07	0.66
2:G:96:ARG:HD3	2:G:195:LEU:HA	1.75	0.66
2:G:148:LEU:HB3	2:G:234:VAL:HG21	1.75	0.66
2:G:244:LYS:CE	2:G:404:GLU:HB3	2.24	0.66
2:I:71:LEU:C	2:I:71:LEU:HD13	2.20	0.66
2:K:295:LEU:CD2	2:K:319:LEU:HB3	2.25	0.66
2:L:181:ARG:HD3	2:L:187:VAL:CB	2.25	0.66
2:L:186:LEU:CD2	2:L:200:VAL:HB	2.25	0.66
1:B:734:LEU:HD12	1:B:738:HIS:CD2	2.25	0.66
1:C:248:GLU:HA	1:C:251:MET:CG	2.22	0.66
1:D:289:ARG:NH2	1:D:532:ILE:O	2.28	0.66
1:D:909:GLN:NE2	1:D:929:GLU:OE1	2.28	0.66
1:D:960:THR:HG22	1:D:963:VAL:HG23	1.77	0.66
1:E:59:VAL:HG21	1:E:105:TYR:CE2	2.27	0.66
1:F:732:ARG:H	1:F:747:SER:CB	2.08	0.66
1:F:782:ARG:HH21	2:I:51:GLY:CA	0.99	0.66
2:H:220:VAL:CG2	8:H:484:FAD:N6A	2.55	0.66
2:I:410:PHE:O	2:I:413:PRO:HD2	1.95	0.66
2:J:71:LEU:HD22	2:J:71:LEU:C	2.20	0.66
2:J:153:ILE:HG23	2:J:238:VAL:HA	1.76	0.66
2:J:322:ARG:CD	2:J:349:ALA:HB1	2.24	0.66
2:K:181:ARG:CD	2:K:187:VAL:HG11	2.25	0.66
2:L:242:VAL:CG1	2:L:403:PRO:HD3	2.21	0.66
1:A:182:MET:CE	1:A:217:PRO:CA	2.73	0.66
1:A:295:LYS:C	1:A:295:LYS:HD3	2.19	0.66
1:A:913:GLY:HA2	1:A:1349:ARG:HD3	1.76	0.66
1:A:1227:GLU:OE2	1:E:902:ASN:ND2	2.28	0.66
1:A:1375:ILE:C	1:A:1376:LEU:HD23	2.19	0.66
1:B:572:THR:HG21	1:B:615:ARG:HB3	1.78	0.66
1:B:728:ILE:HD12	1:B:1047:MET:HE1	1.74	0.66
1:C:251:MET:HB2	1:C:533:LEU:HD12	1.78	0.66
1:C:960:THR:CG2	1:C:963:VAL:CG2	2.73	0.66
1:D:1102:CYS:SG	6:D:2476:F3S:S2	2.93	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:454:PHE:HE2	1:E:647:ALA:HB3	1.58	0.66
1:E:506:VAL:HG11	1:E:980:LEU:HD22	1.75	0.66
1:E:1221:PRO:HG2	1:E:1229:MET:CE	2.23	0.66
1:F:355:TYR:C	1:F:355:TYR:CD1	2.72	0.66
1:F:515:ARG:HD2	1:F:1367:TYR:CZ	2.31	0.66
2:G:95:GLY:C	2:G:125:LYS:HD2	2.19	0.66
2:G:153:ILE:HG23	2:G:238:VAL:HA	1.76	0.66
2:H:371:VAL:CG2	2:H:386:SER:HB3	2.24	0.66
2:I:186:LEU:CD2	2:I:200:VAL:HB	2.25	0.66
2:I:451:VAL:O	2:I:454:ILE:HG23	1.95	0.66
2:K:290:LYS:HD3	2:K:393:ASP:OD2	1.94	0.66
2:K:368:HIS:ND1	2:K:387:GLU:HG3	2.09	0.66
2:K:418:THR:HG23	2:K:422:THR:HG23	1.77	0.66
2:K:451:VAL:O	2:K:454:ILE:HG23	1.95	0.66
2:L:295:LEU:CD2	2:L:319:LEU:HB3	2.25	0.66
2:L:368:HIS:ND1	2:L:387:GLU:HG3	2.10	0.66
1:A:62:ILE:HG22	1:A:62:ILE:O	1.96	0.66
1:A:172:LEU:O	1:A:172:LEU:HG	1.94	0.66
1:A:354:ARG:NH2	1:A:1292:ALA:O	2.29	0.66
1:A:1227:GLU:CD	1:E:876:ASN:HB3	2.21	0.66
1:B:559:ARG:HD2	1:B:605:ILE:HD13	1.78	0.66
1:E:443:ASP:O	1:E:444:LYS:C	2.39	0.66
1:E:531:ASN:O	1:E:532:ILE:C	2.38	0.66
1:E:960:THR:CG2	1:E:963:VAL:CG2	2.73	0.66
1:F:302:ALA:CA	1:F:347:ARG:HH12	2.08	0.66
2:G:90:PHE:HB3	2:G:93:ILE:HG21	1.76	0.66
2:G:418:THR:HG23	2:G:422:THR:HG23	1.77	0.66
2:I:244:LYS:CE	2:I:404:GLU:HB3	2.24	0.66
2:I:290:LYS:HG2	2:I:291:HIS:H	1.61	0.66
2:I:331:GLN:O	2:I:334:VAL:HG23	1.95	0.66
2:J:71:LEU:C	2:J:71:LEU:HD13	2.20	0.66
2:J:451:VAL:O	2:J:454:ILE:HG23	1.95	0.66
2:L:418:THR:HG23	2:L:422:THR:HG23	1.77	0.66
1:A:317:ILE:HG22	1:A:321:ASN:ND2	2.11	0.66
1:A:731:SER:HA	1:A:748:GLY:N	2.11	0.66
1:A:850:ARG:HH11	1:A:850:ARG:CG	2.08	0.66
1:A:902:ASN:ND2	1:C:1227:GLU:OE2	2.28	0.66
1:A:1194:GLU:HB2	1:B:115:ASP:OD2	1.95	0.66
1:B:908:LYS:HD2	1:B:921:TYR:CD1	2.31	0.66
1:C:102:TYR:CD2	1:C:144:PHE:CE1	2.82	0.66
1:C:182:MET:CE	1:C:217:PRO:CA	2.73	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:454:PHE:CE2	1:C:647:ALA:HB3	2.31	0.66
1:D:496:HIS:ND1	1:D:654:TYR:HD1	1.93	0.66
1:D:1109:HIS:ND1	1:D:1109:HIS:N	2.43	0.66
1:D:1112:THR:O	2:H:112:GLN:NE2	2.19	0.66
1:E:693:MET:O	1:E:694:ALA:C	2.37	0.66
1:F:394:ASP:C	1:F:394:ASP:OD1	2.38	0.66
1:F:559:ARG:HD2	1:F:605:ILE:CD1	2.25	0.66
1:F:746:ILE:HD11	1:F:1186:ARG:NH2	2.10	0.66
1:F:781:PHE:CE2	2:I:57:VAL:HG21	2.31	0.66
2:G:186:LEU:CD2	2:G:200:VAL:HB	2.25	0.66
2:G:417:VAL:C	2:G:424:LEU:HD22	2.21	0.66
2:I:242:VAL:CG1	2:I:403:PRO:HD3	2.21	0.66
2:J:49:GLN:NE2	2:J:69:LEU:HG	2.10	0.66
2:J:244:LYS:CE	2:J:404:GLU:HB3	2.24	0.66
2:J:417:VAL:C	2:J:424:LEU:HD22	2.21	0.66
2:K:71:LEU:HD22	2:K:71:LEU:C	2.20	0.66
2:L:244:LYS:CE	2:L:404:GLU:HB3	2.25	0.66
1:A:777:GLY:O	1:A:788:HIS:HE1	1.77	0.66
1:B:302:ALA:CA	1:B:347:ARG:HH12	2.08	0.66
1:B:461:MET:CE	1:B:465:LEU:HD23	2.25	0.66
1:B:496:HIS:ND1	1:B:654:TYR:HD1	1.93	0.66
1:C:450:ARG:O	1:C:451:GLN:C	2.37	0.66
1:C:876:ASN:HB3	1:E:1227:GLU:CD	2.21	0.66
1:D:119:GLU:O	1:D:120:LYS:C	2.39	0.66
1:D:296:MET:O	1:D:297:MET:C	2.33	0.66
1:D:461:MET:CE	1:D:465:LEU:HD23	2.26	0.66
1:D:1058:LEU:HD22	1:D:1058:LEU:O	1.95	0.66
1:E:62:ILE:HG22	1:E:62:ILE:O	1.96	0.66
1:E:446:GLU:O	1:E:447:LEU:C	2.36	0.66
1:E:511:ILE:HG22	1:E:512:ASP:H	1.61	0.66
1:E:731:SER:HA	1:E:748:GLY:N	2.11	0.66
1:E:746:ILE:O	1:E:747:SER:O	2.13	0.66
1:E:1220:ARG:N	1:E:1221:PRO:HD2	2.10	0.66
1:F:295:LYS:NZ	1:F:299:VAL:O	2.17	0.66
1:F:909:GLN:NE2	1:F:929:GLU:OE1	2.28	0.66
2:G:95:GLY:O	2:G:125:LYS:HD2	1.96	0.66
2:G:97:ILE:HD11	2:G:450:VAL:HG11	1.76	0.66
2:I:295:LEU:CD2	2:I:319:LEU:HB3	2.25	0.66
2:I:368:HIS:ND1	2:I:387:GLU:HG3	2.09	0.66
2:K:49:GLN:NE2	2:K:69:LEU:HG	2.10	0.66
2:K:71:LEU:C	2:K:71:LEU:HD13	2.20	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:244:LYS:CE	2:K:404:GLU:HB3	2.24	0.66
2:K:259:VAL:HG21	2:K:264:TYR:CB	2.14	0.66
2:K:321:ARG:HH21	2:K:351:GLU:CG	2.09	0.66
2:L:331:GLN:O	2:L:334:VAL:HG23	1.95	0.66
2:L:469:LYS:HZ3	2:L:476:VAL:HA	1.60	0.66
1:A:359:THR:HG23	1:A:378:GLN:O	1.94	0.66
1:C:525:ARG:C	1:C:526:LEU:HD12	2.20	0.66
1:C:629:THR:O	1:C:630:HIS:C	2.37	0.66
1:C:1230:GLN:NE2	1:C:1267:ARG:CD	2.59	0.66
1:E:1003:ARG:HH11	1:E:1003:ARG:HG3	1.61	0.66
1:F:236:THR:CG2	1:F:328:ASP:N	2.52	0.66
1:F:289:ARG:NH2	1:F:532:ILE:O	2.28	0.66
1:F:389:GLU:CB	1:F:403:ASP:OD2	2.40	0.66
1:F:454:PHE:HE2	1:F:647:ALA:HB3	1.58	0.66
1:F:777:GLY:HA3	2:I:52:VAL:HG12	1.77	0.66
1:F:838:VAL:CG1	1:F:839:PRO:CD	2.73	0.66
2:G:181:ARG:CD	2:G:187:VAL:HG11	2.25	0.66
2:G:410:PHE:O	2:G:413:PRO:HD2	1.95	0.66
2:H:410:PHE:O	2:H:413:PRO:HD2	1.95	0.66
2:H:471:LYS:HA	2:H:471:LYS:CE	2.23	0.66
2:I:90:PHE:HB3	2:I:93:ILE:HG21	1.76	0.66
2:J:290:LYS:CG	2:J:291:HIS:H	2.09	0.66
2:J:368:HIS:ND1	2:J:387:GLU:HG3	2.09	0.66
2:K:95:GLY:O	2:K:125:LYS:HD2	1.96	0.66
2:K:96:ARG:HD3	2:K:195:LEU:HA	1.75	0.66
2:K:371:VAL:CG2	2:K:386:SER:HB3	2.24	0.66
2:L:220:VAL:CG2	8:L:484:FAD:N6A	2.55	0.66
1:A:102:TYR:CD2	1:A:144:PHE:CE1	2.82	0.66
1:A:353:MET:HE3	1:A:366:GLY:O	1.94	0.66
1:A:450:ARG:O	1:A:451:GLN:C	2.37	0.66
1:A:531:ASN:O	1:A:532:ILE:C	2.38	0.66
1:C:310:PRO:CG	1:C:404:ARG:NH2	2.56	0.66
1:C:506:VAL:HG11	1:C:980:LEU:HD22	1.75	0.66
1:C:731:SER:HA	1:C:748:GLY:N	2.11	0.66
1:C:1297:GLY:O	1:C:1328:LEU:HA	1.95	0.66
1:D:746:ILE:HD11	1:D:1186:ARG:NH2	2.10	0.66
1:D:908:LYS:HD2	1:D:921:TYR:CD1	2.31	0.66
1:E:746:ILE:HG23	1:E:1182:ASP:H	1.54	0.66
1:F:461:MET:CE	1:F:465:LEU:HD23	2.25	0.66
2:G:49:GLN:HA	2:G:49:GLN:OE1	1.96	0.66
2:G:268:SER:O	2:G:271:VAL:HG23	1.96	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:167:ARG:HD3	2:H:210:ALA:O	1.96	0.66
2:H:186:LEU:CD2	2:H:200:VAL:HB	2.25	0.66
2:H:244:LYS:CE	2:H:404:GLU:HB3	2.25	0.66
2:H:290:LYS:CG	2:H:291:HIS:H	2.09	0.66
2:H:327:MET:HB2	2:H:346:TRP:HH2	1.54	0.66
2:I:418:THR:HG23	2:I:422:THR:HG23	1.77	0.66
2:J:186:LEU:CD2	2:J:200:VAL:HB	2.25	0.66
2:K:249:LYS:HG3	2:K:258:ILE:HD11	1.78	0.66
2:K:290:LYS:CG	2:K:291:HIS:H	2.09	0.66
2:L:268:SER:O	2:L:271:VAL:HG23	1.96	0.66
1:A:394:ASP:OD1	1:A:394:ASP:C	2.37	0.66
1:A:1431:HIS:O	1:A:1435:THR:HG22	1.95	0.66
1:B:559:ARG:HD2	1:B:605:ILE:CD1	2.25	0.66
1:B:653:HIS:O	1:B:654:TYR:C	2.39	0.66
1:C:913:GLY:HA2	1:C:1349:ARG:HD3	1.76	0.66
1:D:447:LEU:HD12	1:D:451:GLN:CG	2.22	0.66
1:D:1263:HIS:NE2	1:F:900:GLY:HA2	2.10	0.66
1:D:1388:THR:O	1:D:1388:THR:HG22	1.94	0.66
1:E:317:ILE:HG22	1:E:321:ASN:ND2	2.11	0.66
1:E:317:ILE:O	1:E:321:ASN:ND2	2.29	0.66
1:E:1297:GLY:O	1:E:1328:LEU:HA	1.95	0.66
1:E:1317:THR:HG21	1:E:1358:GLU:OE1	1.92	0.66
1:F:454:PHE:HE2	1:F:647:ALA:CB	2.09	0.66
1:F:559:ARG:HD2	1:F:605:ILE:HD13	1.78	0.66
1:F:1058:LEU:HD22	1:F:1058:LEU:O	1.95	0.66
1:F:1102:CYS:SG	6:F:2476:F3S:S2	2.93	0.66
1:F:1413:GLN:HG3	1:F:1414:ARG:O	1.96	0.66
2:G:295:LEU:CD2	2:G:319:LEU:HB3	2.25	0.66
2:G:322:ARG:CD	2:G:349:ALA:HB1	2.24	0.66
2:H:295:LEU:CD2	2:H:319:LEU:HB3	2.25	0.66
2:I:71:LEU:HD22	2:I:71:LEU:C	2.20	0.66
2:J:152:VAL:HG13	2:J:175:VAL:CA	2.15	0.66
2:J:167:ARG:HD3	2:J:210:ALA:O	1.96	0.66
2:K:181:ARG:HD3	2:K:187:VAL:CB	2.25	0.66
2:K:186:LEU:CD2	2:K:200:VAL:HB	2.25	0.66
2:L:49:GLN:HA	2:L:49:GLN:OE1	1.96	0.66
2:L:181:ARG:CD	2:L:187:VAL:HG11	2.25	0.66
2:L:290:LYS:HG2	2:L:291:HIS:H	1.61	0.66
1:A:525:ARG:C	1:A:526:LEU:HD12	2.20	0.66
1:A:824:GLN:CA	1:A:824:GLN:NE2	2.57	0.66
1:B:289:ARG:NH2	1:B:532:ILE:O	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:780:ARG:NH2	1:B:1105:VAL:CG2	2.59	0.66
1:C:62:ILE:HG22	1:C:62:ILE:O	1.96	0.66
1:C:1207:VAL:HG13	1:C:1208:PRO:HD2	1.77	0.66
1:C:1431:HIS:O	1:C:1435:THR:HG22	1.95	0.66
1:D:666:VAL:CG1	1:D:667:ASN:N	2.58	0.66
1:D:1114:PRO:HA	2:H:112:GLN:C	1.84	0.66
1:E:102:TYR:HE2	1:E:144:PHE:CE1	2.13	0.66
1:E:824:GLN:CA	1:E:824:GLN:NE2	2.57	0.66
1:E:1376:LEU:N	1:E:1376:LEU:CD2	2.33	0.66
1:F:296:MET:O	1:F:297:MET:C	2.33	0.66
1:F:885:GLY:C	1:F:887:GLY:H	2.01	0.66
1:F:1131:THR:HB	1:F:1134:LYS:CG	2.26	0.66
1:F:1438:ARG:HD2	2:G:377:ARG:N	1.49	0.66
2:G:321:ARG:HH21	2:G:351:GLU:CG	2.09	0.66
2:H:181:ARG:CD	2:H:187:VAL:HG11	2.25	0.66
2:H:197:LYS:HE2	2:H:275:ASP:N	2.07	0.66
2:H:249:LYS:HG3	2:H:258:ILE:HD11	1.78	0.66
2:I:153:ILE:HG23	2:I:238:VAL:HA	1.76	0.66
2:I:417:VAL:C	2:I:424:LEU:HD22	2.21	0.66
2:J:44:ALA:HA	2:J:69:LEU:CD1	2.22	0.66
2:J:59:CYS:SG	2:J:61:VAL:HG13	2.36	0.66
2:J:290:LYS:HG2	2:J:291:HIS:H	1.61	0.66
2:K:175:VAL:CG1	2:K:214:TYR:HA	2.23	0.66
2:L:71:LEU:HD22	2:L:71:LEU:C	2.20	0.66
2:L:95:GLY:O	2:L:125:LYS:HD2	1.96	0.66
2:L:132:TRP:HD1	2:L:202:ARG:HB2	1.60	0.66
2:L:417:VAL:C	2:L:424:LEU:HD22	2.21	0.66
1:A:1144:GLU:O	1:A:1144:GLU:HG3	1.95	0.65
1:A:1230:GLN:NE2	1:A:1267:ARG:CD	2.59	0.65
1:B:909:GLN:NE2	1:B:929:GLU:OE1	2.28	0.65
1:C:354:ARG:NH2	1:C:1292:ALA:O	2.29	0.65
1:C:394:ASP:OD1	1:C:394:ASP:C	2.37	0.65
1:C:902:ASN:ND2	1:E:1227:GLU:OE2	2.28	0.65
1:D:447:LEU:HD12	1:D:447:LEU:C	2.22	0.65
1:D:625:GLY:O	1:D:626:ALA:C	2.39	0.65
1:E:512:ASP:OD2	1:E:1367:TYR:OH	2.12	0.65
1:E:1230:GLN:NE2	1:E:1267:ARG:CD	2.59	0.65
1:F:1164:ARG:HD2	1:F:1166:ASP:OD1	1.96	0.65
2:G:71:LEU:HD22	2:G:71:LEU:C	2.20	0.65
2:G:165:GLU:OE1	2:G:458:ARG:HA	1.97	0.65
2:H:49:GLN:NE2	2:H:69:LEU:HG	2.10	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:59:CYS:SG	2:I:61:VAL:HG13	2.37	0.65
2:I:165:GLU:OE1	2:I:458:ARG:HA	1.96	0.65
2:I:301:ALA:HA	2:I:304:CYS:SG	2.36	0.65
2:J:249:LYS:HG3	2:J:258:ILE:HD11	1.78	0.65
2:J:337:ALA:O	2:J:340:GLU:HB2	1.97	0.65
2:K:345:ILE:H	2:K:345:ILE:CD1	2.09	0.65
2:L:321:ARG:HH21	2:L:351:GLU:CG	2.09	0.65
1:A:336:THR:OG1	1:A:337:ASP:O	2.13	0.65
1:A:446:GLU:O	1:A:447:LEU:C	2.36	0.65
1:A:746:ILE:O	1:A:747:SER:O	2.13	0.65
1:A:781:PHE:HE2	2:J:57:VAL:HG11	1.61	0.65
1:B:119:GLU:O	1:B:120:LYS:C	2.39	0.65
1:B:452:GLN:HG3	1:B:765:ALA:HB2	1.78	0.65
1:B:454:PHE:HE2	1:B:647:ALA:CB	2.09	0.65
1:C:317:ILE:O	1:C:321:ASN:ND2	2.29	0.65
1:C:443:ASP:O	1:C:444:LYS:C	2.39	0.65
1:C:531:ASN:O	1:C:532:ILE:C	2.38	0.65
1:D:52:GLN:HE22	1:D:71:LEU:CB	2.09	0.65
1:D:113:ASN:ND2	1:D:113:ASN:C	2.49	0.65
1:D:1164:ARG:HD2	1:D:1166:ASP:OD1	1.96	0.65
1:D:1401:LEU:N	1:D:1402:PRO:CD	2.59	0.65
1:E:354:ARG:NH2	1:E:1292:ALA:O	2.28	0.65
1:E:420:VAL:HA	1:E:540:THR:HG21	1.78	0.65
1:E:704:LEU:C	1:E:706:LYS:N	2.54	0.65
2:G:290:LYS:CG	2:G:291:HIS:H	2.09	0.65
2:H:156:GLY:O	2:H:160:LEU:HD12	1.97	0.65
2:H:290:LYS:HG2	2:H:291:HIS:H	1.61	0.65
2:H:304:CYS:HA	2:H:307:THR:HG22	1.78	0.65
2:H:418:THR:HG23	2:H:422:THR:HG23	1.77	0.65
2:H:451:VAL:O	2:H:454:ILE:HG23	1.95	0.65
2:I:44:ALA:HA	2:I:69:LEU:CD1	2.22	0.65
2:I:49:GLN:NE2	2:I:69:LEU:HG	2.10	0.65
2:I:448:SER:H	2:I:452:TRP:HZ3	1.42	0.65
2:J:207:LEU:CG	2:J:212:VAL:HG11	2.26	0.65
2:J:220:VAL:CG2	8:J:484:FAD:N1A	2.56	0.65
2:K:410:PHE:O	2:K:413:PRO:HD2	1.95	0.65
2:L:304:CYS:HA	2:L:307:THR:HG22	1.78	0.65
2:L:451:VAL:O	2:L:454:ILE:HG23	1.95	0.65
1:A:297:MET:HE1	1:A:323:VAL:HG11	1.78	0.65
1:A:403:ASP:CG	1:A:407:LYS:NZ	2.54	0.65
1:A:491:LYS:NZ	1:A:785:GLY:HA3	2.11	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:782:ARG:CB	2:J:53:PRO:HD2	2.19	0.65
1:B:295:LYS:HB3	1:B:390:MET:HE1	1.78	0.65
1:B:1009:ILE:O	1:B:1010:ALA:C	2.37	0.65
1:C:253:HIS:CE1	1:C:254:PRO:CD	2.62	0.65
1:C:336:THR:OG1	1:C:337:ASP:O	2.13	0.65
1:C:359:THR:HG23	1:C:378:GLN:HB3	1.79	0.65
1:C:452:GLN:HG3	1:C:765:ALA:HB2	1.77	0.65
1:C:491:LYS:NZ	1:C:785:GLY:HA3	2.11	0.65
1:E:781:PHE:HE2	2:L:57:VAL:HG11	1.61	0.65
1:E:1375:ILE:C	1:E:1376:LEU:HD23	2.19	0.65
1:F:572:THR:HG21	1:F:615:ARG:HB3	1.78	0.65
1:F:820:ARG:HB3	1:F:821:PRO:HD2	1.78	0.65
1:F:1401:LEU:N	1:F:1402:PRO:CD	2.59	0.65
2:G:304:CYS:HA	2:G:307:THR:HG22	1.78	0.65
2:H:95:GLY:O	2:H:125:LYS:HD2	1.96	0.65
2:H:181:ARG:HD3	2:H:187:VAL:CB	2.25	0.65
2:H:301:ALA:HA	2:H:304:CYS:SG	2.37	0.65
2:H:368:HIS:ND1	2:H:387:GLU:HG3	2.10	0.65
2:H:417:VAL:C	2:H:424:LEU:HD22	2.21	0.65
2:I:145:GLU:OE1	2:I:472:ALA:HB2	1.97	0.65
2:J:301:ALA:HA	2:J:304:CYS:SG	2.37	0.65
2:K:290:LYS:HG2	2:K:291:HIS:H	1.61	0.65
1:A:122:ASN:OD1	1:A:125:ARG:NH1	2.25	0.65
1:A:1062:ARG:O	1:A:1062:ARG:CG	2.43	0.65
1:A:1207:VAL:HG13	1:A:1208:PRO:HD2	1.77	0.65
1:A:1311:THR:HG23	1:A:1312:SER:H	1.60	0.65
1:B:142:GLU:CD	1:B:142:GLU:H	2.05	0.65
1:B:394:ASP:OD1	1:B:394:ASP:C	2.38	0.65
1:B:782:ARG:HA	2:G:53:PRO:O	1.97	0.65
1:B:960:THR:HG22	1:B:963:VAL:HG23	1.77	0.65
1:B:1212:ASP:CG	1:B:1243:GLY:H	2.04	0.65
1:C:511:ILE:HG22	1:C:512:ASP:H	1.61	0.65
1:D:142:GLU:CD	1:D:142:GLU:H	2.05	0.65
1:E:139:VAL:HG11	1:E:143:GLN:HB3	1.77	0.65
1:E:216:PHE:CZ	1:F:81:ILE:HD13	2.32	0.65
1:E:259:HIS:O	1:E:260:MET:C	2.39	0.65
1:E:299:VAL:O	1:E:299:VAL:CG1	2.43	0.65
2:G:165:GLU:HB3	2:G:169:LYS:HZ3	1.59	0.65
2:H:345:ILE:H	2:H:345:ILE:CD1	2.09	0.65
2:I:100:GLN:CB	2:I:105:GLU:HG2	2.22	0.65
2:J:156:GLY:O	2:J:160:LEU:HD12	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:90:PHE:HB3	2:L:93:ILE:HG21	1.76	0.65
2:L:145:GLU:OE1	2:L:472:ALA:HB2	1.97	0.65
1:A:251:MET:HB2	1:A:533:LEU:HD12	1.78	0.65
1:A:253:HIS:ND1	1:A:254:PRO:N	2.45	0.65
1:A:317:ILE:O	1:A:321:ASN:ND2	2.29	0.65
1:A:547:SER:C	1:A:549:VAL:H	2.05	0.65
1:A:876:ASN:HB3	1:C:1227:GLU:CD	2.21	0.65
1:A:896:PRO:HG3	1:C:1225:GLU:HB3	1.78	0.65
1:A:1227:GLU:OE2	1:E:902:ASN:CG	2.40	0.65
1:B:515:ARG:HD2	1:B:1367:TYR:CZ	2.31	0.65
1:B:777:GLY:HA3	2:G:52:VAL:HG12	1.77	0.65
1:B:938:PRO:O	1:B:939:GLY:C	2.35	0.65
1:B:1227:GLU:OE2	1:D:902:ASN:ND2	2.29	0.65
1:B:1413:GLN:HG3	1:B:1414:ARG:O	1.96	0.65
1:C:208:HIS:CD2	1:C:208:HIS:C	2.74	0.65
1:C:403:ASP:CG	1:C:407:LYS:NZ	2.54	0.65
1:C:781:PHE:HE2	2:K:57:VAL:HG11	1.61	0.65
1:C:843:VAL:CG1	1:C:844:GLU:N	2.59	0.65
1:D:559:ARG:HD2	1:D:605:ILE:HD13	1.78	0.65
1:D:777:GLY:HA3	2:H:52:VAL:HG12	1.77	0.65
1:D:938:PRO:O	1:D:939:GLY:C	2.35	0.65
1:D:1131:THR:HB	1:D:1134:LYS:CG	2.26	0.65
1:D:1212:ASP:CG	1:D:1243:GLY:H	2.04	0.65
1:D:1227:GLU:OE2	1:F:902:ASN:ND2	2.29	0.65
1:E:297:MET:HE1	1:E:323:VAL:HG11	1.78	0.65
1:E:734:LEU:HD12	1:E:734:LEU:C	2.21	0.65
1:F:142:GLU:CD	1:F:142:GLU:H	2.05	0.65
1:F:266:VAL:HG12	1:F:279:THR:HG23	1.76	0.65
1:F:1274:GLN:HE21	1:F:1293:ASN:HB3	1.61	0.65
2:G:49:GLN:NE2	2:G:69:LEU:HG	2.10	0.65
2:G:181:ARG:HD3	2:G:187:VAL:CB	2.25	0.65
2:H:49:GLN:HA	2:H:49:GLN:OE1	1.96	0.65
2:H:59:CYS:SG	2:H:61:VAL:HG13	2.36	0.65
2:I:268:SER:O	2:I:271:VAL:HG23	1.96	0.65
2:J:145:GLU:OE1	2:J:472:ALA:HB2	1.97	0.65
2:J:165:GLU:OE1	2:J:458:ARG:HA	1.97	0.65
2:K:59:CYS:SG	2:K:61:VAL:HG13	2.37	0.65
2:K:165:GLU:OE1	2:K:458:ARG:HA	1.96	0.65
2:K:167:ARG:NH2	2:K:170:GLY:HA2	2.12	0.65
1:A:420:VAL:HA	1:A:540:THR:HG21	1.78	0.65
1:A:452:GLN:HG3	1:A:765:ALA:HB2	1.77	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:629:THR:O	1:A:630:HIS:C	2.37	0.65
1:A:1225:GLU:HB3	1:E:896:PRO:HG3	1.78	0.65
1:B:625:GLY:O	1:B:626:ALA:C	2.39	0.65
1:C:355:TYR:C	1:C:355:TYR:HD1	2.03	0.65
1:C:621:ILE:HG13	1:C:658:LEU:HD13	1.79	0.65
1:C:902:ASN:CG	1:E:1227:GLU:OE2	2.40	0.65
1:C:1003:ARG:HG3	1:C:1003:ARG:HH11	1.61	0.65
1:D:56:LYS:HG2	1:D:71:LEU:HD22	1.79	0.65
1:D:1274:GLN:HE21	1:D:1293:ASN:HB3	1.61	0.65
1:E:1431:HIS:O	1:E:1435:THR:HG22	1.95	0.65
1:F:447:LEU:HD12	1:F:451:GLN:CG	2.23	0.65
1:F:908:LYS:HD2	1:F:921:TYR:CD1	2.31	0.65
1:F:1317:THR:CG2	1:F:1318:ASN:N	2.44	0.65
2:G:290:LYS:HG2	2:G:291:HIS:H	1.61	0.65
2:H:337:ALA:O	2:H:340:GLU:HB2	1.96	0.65
2:I:95:GLY:O	2:I:125:LYS:HD2	1.96	0.65
2:I:156:GLY:O	2:I:160:LEU:HD12	1.97	0.65
2:I:167:ARG:HD3	2:I:210:ALA:O	1.96	0.65
2:I:304:CYS:HA	2:I:307:THR:HG22	1.78	0.65
2:J:268:SER:O	2:J:271:VAL:HG23	1.96	0.65
2:K:268:SER:O	2:K:271:VAL:HG23	1.96	0.65
2:L:301:ALA:HA	2:L:304:CYS:SG	2.37	0.65
1:A:643:ASN:HD22	1:A:665:THR:CG2	2.10	0.65
1:A:1395:TYR:CE1	1:A:1397:LEU:CD2	2.80	0.65
1:B:113:ASN:HD22	1:B:115:ASP:H	1.41	0.65
1:B:446:GLU:O	1:B:447:LEU:C	2.40	0.65
1:B:902:ASN:ND2	1:F:1227:GLU:OE2	2.29	0.65
1:C:216:PHE:CZ	1:D:81:ILE:HD13	2.32	0.65
1:C:704:LEU:C	1:C:706:LYS:N	2.54	0.65
1:D:572:THR:HG21	1:D:615:ARG:HB3	1.78	0.65
1:D:780:ARG:NH2	1:D:1105:VAL:CG2	2.59	0.65
1:D:781:PHE:CE2	2:H:57:VAL:HG21	2.31	0.65
1:E:782:ARG:CB	2:L:56:GLN:NE2	2.38	0.65
2:G:345:ILE:H	2:G:345:ILE:CD1	2.09	0.65
2:H:167:ARG:NH2	2:H:170:GLY:HA2	2.12	0.65
2:I:49:GLN:HA	2:I:49:GLN:OE1	1.96	0.65
2:I:199:VAL:O	2:I:203:ARG:HD2	1.97	0.65
2:I:207:LEU:CG	2:I:212:VAL:HG11	2.27	0.65
2:I:264:TYR:HE2	2:I:307:THR:HG23	1.61	0.65
2:I:469:LYS:HZ3	2:I:476:VAL:HA	1.62	0.65
2:J:49:GLN:OE1	2:J:49:GLN:HA	1.96	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:132:TRP:HD1	2:K:202:ARG:HB2	1.60	0.65
2:K:167:ARG:HD3	2:K:210:ALA:O	1.96	0.65
2:K:301:ALA:HA	2:K:304:CYS:SG	2.36	0.65
2:K:417:VAL:C	2:K:424:LEU:HD22	2.21	0.65
2:L:38:GLU:HA	2:L:126:TYR:CZ	2.32	0.65
2:L:59:CYS:SG	2:L:61:VAL:HG13	2.36	0.65
1:A:310:PRO:CG	1:A:404:ARG:NH2	2.56	0.65
1:A:777:GLY:HA3	2:J:52:VAL:HG12	1.79	0.65
1:A:1003:ARG:HH11	1:A:1003:ARG:HG3	1.61	0.65
1:B:513:SER:HB3	1:B:520:MET:HE1	1.79	0.65
1:B:990:ILE:O	1:B:990:ILE:HG13	1.97	0.65
1:C:297:MET:HE1	1:C:323:VAL:HG11	1.78	0.65
1:C:302:ALA:HA	1:C:347:ARG:HH12	1.62	0.65
1:C:643:ASN:HD22	1:C:665:THR:CG2	2.10	0.65
1:C:661:VAL:O	1:C:661:VAL:HG12	1.94	0.65
1:D:768:GLU:HG2	1:D:769:GLU:N	2.09	0.65
1:D:1047:MET:CE	1:D:1186:ARG:NH2	2.44	0.65
1:E:452:GLN:HG3	1:E:764:THR:HG22	1.79	0.65
1:E:843:VAL:CG1	1:E:844:GLU:N	2.59	0.65
1:E:1050:SER:O	1:E:1054:GLN:HG3	1.97	0.65
1:E:1395:TYR:CE1	1:E:1397:LEU:CD2	2.80	0.65
2:G:59:CYS:SG	2:G:61:VAL:HG13	2.36	0.65
2:H:321:ARG:HH21	2:H:351:GLU:CG	2.09	0.65
2:I:146:LEU:HD23	2:I:147:GLY:N	2.09	0.65
2:I:229:LEU:O	2:I:233:HIS:HB2	1.97	0.65
2:I:290:LYS:CG	2:I:291:HIS:H	2.09	0.65
2:J:229:LEU:O	2:J:233:HIS:HB2	1.97	0.65
2:K:337:ALA:O	2:K:340:GLU:HB2	1.97	0.65
2:L:267:THR:HG21	2:L:286:ASN:HD21	1.61	0.65
2:L:337:ALA:O	2:L:340:GLU:HB2	1.96	0.65
1:B:193:PRO:O	1:B:194:ASP:C	2.40	0.65
1:B:529:LEU:HD23	1:B:529:LEU:N	1.92	0.65
1:B:609:GLU:O	1:B:611:MET:N	2.30	0.65
1:B:781:PHE:CE2	2:G:57:VAL:HG21	2.31	0.65
1:B:1394:VAL:HG11	1:B:1401:LEU:HD22	1.79	0.65
1:C:107:TRP:H	1:C:107:TRP:CD1	2.15	0.65
1:C:317:ILE:HG22	1:C:321:ASN:ND2	2.11	0.65
1:C:734:LEU:HD12	1:C:734:LEU:C	2.21	0.65
1:E:525:ARG:C	1:E:526:LEU:HD12	2.21	0.65
1:F:447:LEU:HD12	1:F:447:LEU:C	2.21	0.65
1:F:666:VAL:CG1	1:F:667:ASN:N	2.58	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:38:GLU:HA	2:G:126:TYR:CZ	2.32	0.65
2:G:167:ARG:NH2	2:G:170:GLY:HA2	2.12	0.65
2:H:132:TRP:HD1	2:H:202:ARG:HB2	1.60	0.65
2:H:267:THR:HG21	2:H:286:ASN:HD21	1.61	0.65
2:I:38:GLU:HA	2:I:126:TYR:CZ	2.32	0.65
2:J:95:GLY:O	2:J:125:LYS:HD2	1.96	0.65
2:J:304:CYS:HA	2:J:307:THR:HG22	1.78	0.65
2:K:49:GLN:HA	2:K:49:GLN:OE1	1.96	0.65
2:K:145:GLU:OE1	2:K:472:ALA:HB2	1.97	0.65
2:K:156:GLY:O	2:K:160:LEU:HD12	1.97	0.65
2:L:199:VAL:O	2:L:203:ARG:HD2	1.97	0.65
1:A:216:PHE:CZ	1:B:81:ILE:HD13	2.32	0.65
1:A:259:HIS:O	1:A:260:MET:C	2.39	0.65
1:A:443:ASP:O	1:A:444:LYS:C	2.39	0.65
1:A:454:PHE:CE2	1:A:647:ALA:HB3	2.30	0.65
1:A:958:HIS:ND1	1:A:958:HIS:N	2.45	0.65
1:B:52:GLN:HE22	1:B:71:LEU:CB	2.09	0.65
1:B:182:MET:HE1	1:B:217:PRO:CA	2.23	0.65
1:C:208:HIS:CE1	1:C:223:GLN:CD	2.75	0.65
1:C:452:GLN:HG3	1:C:764:THR:HG22	1.79	0.65
1:C:515:ARG:HD3	1:C:1367:TYR:CE1	2.31	0.65
1:C:547:SER:C	1:C:549:VAL:H	2.05	0.65
1:C:1395:TYR:CE1	1:C:1397:LEU:CD2	2.80	0.65
1:D:218:THR:HG22	1:D:221:LEU:H	1.62	0.65
1:D:295:LYS:NZ	1:D:299:VAL:O	2.17	0.65
1:D:492:TYR:OH	1:D:648:GLU:OE2	2.14	0.65
1:D:820:ARG:HB3	1:D:821:PRO:HD2	1.78	0.65
1:E:208:HIS:CE1	1:E:223:GLN:CD	2.75	0.65
1:E:1112:THR:O	1:E:1114:PRO:HD3	1.97	0.65
1:E:1207:VAL:HG13	1:E:1208:PRO:HD2	1.77	0.65
1:F:52:GLN:HE22	1:F:71:LEU:CB	2.09	0.65
1:F:452:GLN:HG3	1:F:765:ALA:HB2	1.78	0.65
1:F:625:GLY:O	1:F:626:ALA:C	2.39	0.65
1:F:653:HIS:O	1:F:654:TYR:C	2.39	0.65
1:F:1212:ASP:CG	1:F:1243:GLY:H	2.04	0.65
2:G:249:LYS:HG3	2:G:258:ILE:HD11	1.78	0.65
2:G:301:ALA:HA	2:G:304:CYS:SG	2.37	0.65
2:H:207:LEU:CG	2:H:212:VAL:HG11	2.26	0.65
2:H:302:MET:HG3	2:H:333:GLU:CD	2.22	0.65
2:I:302:MET:HG3	2:I:333:GLU:CD	2.22	0.65
2:J:38:GLU:HA	2:J:126:TYR:CZ	2.32	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:321:ARG:HH21	2:J:351:GLU:CG	2.09	0.65
2:K:267:THR:HG21	2:K:286:ASN:HD21	1.61	0.65
2:K:302:MET:HG3	2:K:333:GLU:CD	2.22	0.65
2:L:156:GLY:O	2:L:160:LEU:HD12	1.97	0.65
2:L:165:GLU:O	2:L:169:LYS:HD3	1.97	0.65
1:A:1112:THR:O	1:A:1114:PRO:HD3	1.97	0.64
1:B:56:LYS:HG2	1:B:71:LEU:HD22	1.79	0.64
1:B:538:THR:HG23	1:B:538:THR:O	1.97	0.64
1:B:1164:ARG:HB3	1:B:1167:LEU:HD12	1.80	0.64
1:C:74:GLY:CA	1:C:172:LEU:HD13	2.27	0.64
1:C:182:MET:HE1	1:C:217:PRO:O	1.97	0.64
1:D:490:ASP:CG	1:D:787:ARG:HH21	2.06	0.64
1:D:609:GLU:O	1:D:611:MET:N	2.30	0.64
1:D:947:PHE:O	1:D:947:PHE:HD1	1.80	0.64
1:E:491:LYS:NZ	1:E:785:GLY:HA3	2.11	0.64
1:E:515:ARG:HD3	1:E:1367:TYR:CE1	2.31	0.64
1:E:1221:PRO:CB	1:E:1229:MET:CE	2.73	0.64
1:F:254:PRO:HG2	1:F:255:ALA:N	2.10	0.64
1:F:609:GLU:O	1:F:611:MET:N	2.30	0.64
2:G:220:VAL:HG23	8:G:484:FAD:C6A	2.27	0.64
2:I:319:LEU:HA	2:I:345:ILE:CD1	2.28	0.64
2:I:321:ARG:HH21	2:I:351:GLU:CG	2.09	0.64
2:I:337:ALA:O	2:I:340:GLU:HB2	1.97	0.64
2:J:186:LEU:CD2	2:J:195:LEU:HD11	2.27	0.64
2:L:165:GLU:OE1	2:L:458:ARG:HA	1.96	0.64
2:L:167:ARG:HD3	2:L:210:ALA:O	1.96	0.64
2:L:220:VAL:HG23	8:L:484:FAD:C6A	2.27	0.64
2:L:229:LEU:O	2:L:233:HIS:HB2	1.97	0.64
1:A:208:HIS:CE1	1:A:223:GLN:CD	2.75	0.64
1:A:208:HIS:CD2	1:A:208:HIS:C	2.74	0.64
1:A:359:THR:HG23	1:A:378:GLN:HB3	1.79	0.64
1:B:782:ARG:N	2:G:52:VAL:HB	2.07	0.64
1:B:1131:THR:HB	1:B:1134:LYS:CG	2.26	0.64
1:C:420:VAL:HA	1:C:540:THR:HG21	1.78	0.64
1:C:426:LEU:CD1	1:C:558:MET:HG3	2.28	0.64
1:D:319:TYR:O	1:D:322:SER:OG	2.09	0.64
1:D:782:ARG:HA	2:H:53:PRO:O	1.97	0.64
1:D:1394:VAL:HG11	1:D:1401:LEU:HD22	1.79	0.64
1:D:1413:GLN:HG3	1:D:1414:ARG:O	1.96	0.64
1:E:394:ASP:OD1	1:E:394:ASP:C	2.37	0.64
1:E:515:ARG:NH2	1:E:966:ILE:HB	2.13	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:985:TYR:CE1	1:E:1207:VAL:CG1	2.80	0.64
1:E:1349:ARG:HH11	1:E:1349:ARG:HG2	1.62	0.64
1:F:409:HIS:O	1:F:412:THR:HB	1.98	0.64
1:F:780:ARG:NH2	1:F:1105:VAL:CG2	2.59	0.64
1:F:782:ARG:HA	2:I:53:PRO:O	1.97	0.64
2:H:229:LEU:O	2:H:233:HIS:HB2	1.97	0.64
2:I:327:MET:HE2	2:I:334:VAL:CG1	2.28	0.64
2:I:350:PRO:HG3	2:I:380:PRO:CG	2.28	0.64
2:J:167:ARG:NH2	2:J:170:GLY:HA2	2.12	0.64
2:J:199:VAL:O	2:J:203:ARG:HD2	1.97	0.64
2:K:186:LEU:CD2	2:K:195:LEU:HD11	2.27	0.64
2:K:207:LEU:CG	2:K:212:VAL:HG11	2.27	0.64
2:L:264:TYR:HE2	2:L:307:THR:HG23	1.61	0.64
1:A:985:TYR:CE1	1:A:1207:VAL:CG1	2.80	0.64
1:A:1391:MET:CE	1:A:1458:VAL:CG2	2.56	0.64
1:C:209:GLN:HG3	1:C:210:ARG:N	2.13	0.64
1:C:453:ALA:O	1:C:761:GLN:HG3	1.98	0.64
1:D:443:ASP:OD2	1:D:445:ALA:HB3	1.98	0.64
1:E:208:HIS:CD2	1:E:208:HIS:C	2.74	0.64
1:E:403:ASP:CG	1:E:407:LYS:NZ	2.54	0.64
1:E:426:LEU:HD11	1:E:558:MET:HG3	1.79	0.64
1:E:958:HIS:ND1	1:E:958:HIS:N	2.45	0.64
1:E:1442:GLU:HA	2:K:373:ASP:OD2	1.97	0.64
1:F:98:LEU:O	1:F:101:GLY:N	2.25	0.64
1:F:490:ASP:CG	1:F:787:ARG:HH21	2.06	0.64
2:G:354:THR:HA	2:G:369:LEU:HG	1.80	0.64
2:H:38:GLU:HA	2:H:126:TYR:CZ	2.32	0.64
2:H:165:GLU:OE1	2:H:458:ARG:HA	1.96	0.64
2:H:268:SER:O	2:H:271:VAL:HG23	1.96	0.64
2:I:238:VAL:HG22	2:I:438:PHE:O	1.98	0.64
2:J:146:LEU:HD23	2:J:147:GLY:N	2.09	0.64
2:J:238:VAL:HG22	2:J:438:PHE:O	1.98	0.64
2:K:220:VAL:CG2	8:K:484:FAD:N6A	2.55	0.64
2:L:317:LYS:HE3	2:L:345:ILE:HD12	1.79	0.64
2:L:319:LEU:HA	2:L:345:ILE:CD1	2.28	0.64
1:A:64:HIS:CE1	1:B:1173:ARG:HH12	2.15	0.64
1:A:302:ALA:HA	1:A:347:ARG:HH12	1.62	0.64
1:A:902:ASN:CG	1:C:1227:GLU:OE2	2.40	0.64
1:B:447:LEU:HD12	1:B:447:LEU:C	2.22	0.64
1:C:47:HIS:HE1	1:C:176:SER:HB3	1.62	0.64
1:C:64:HIS:CE1	1:D:1173:ARG:HH12	2.15	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1164:ARG:HB3	1:D:1167:LEU:HD12	1.80	0.64
1:E:777:GLY:HA3	2:L:52:VAL:HG12	1.79	0.64
1:F:443:ASP:OD2	1:F:445:ALA:HB3	1.98	0.64
2:G:302:MET:HG3	2:G:333:GLU:CD	2.22	0.64
2:H:242:VAL:CG1	2:H:403:PRO:HD3	2.21	0.64
2:H:354:THR:HA	2:H:369:LEU:HG	1.80	0.64
2:I:220:VAL:CG2	8:I:484:FAD:N6A	2.55	0.64
2:I:249:LYS:HG3	2:I:258:ILE:HD11	1.78	0.64
2:I:267:THR:HG21	2:I:286:ASN:HD21	1.61	0.64
2:J:165:GLU:O	2:J:169:LYS:HD3	1.97	0.64
2:J:302:MET:HG3	2:J:333:GLU:CD	2.22	0.64
2:J:319:LEU:HA	2:J:345:ILE:CD1	2.28	0.64
2:J:327:MET:HE2	2:J:334:VAL:CG1	2.28	0.64
2:J:345:ILE:H	2:J:345:ILE:CD1	2.09	0.64
2:K:38:GLU:HA	2:K:126:TYR:CZ	2.32	0.64
2:K:229:LEU:O	2:K:233:HIS:HB2	1.97	0.64
2:K:304:CYS:HA	2:K:307:THR:HG22	1.78	0.64
1:A:107:TRP:CD1	1:A:107:TRP:H	2.15	0.64
1:A:227:MET:CE	1:A:282:GLU:HG2	2.28	0.64
1:A:453:ALA:O	1:A:761:GLN:HG3	1.98	0.64
1:A:621:ILE:HG13	1:A:658:LEU:HD13	1.79	0.64
1:A:734:LEU:HD12	1:A:734:LEU:C	2.21	0.64
1:A:902:ASN:HD22	1:C:1227:GLU:CG	2.09	0.64
1:A:1050:SER:O	1:A:1054:GLN:HG3	1.97	0.64
1:A:1349:ARG:HH11	1:A:1349:ARG:HG2	1.62	0.64
1:B:1164:ARG:HD2	1:B:1166:ASP:OD1	1.96	0.64
1:C:675:ILE:O	1:C:678:ARG:HB2	1.98	0.64
1:D:295:LYS:HB3	1:D:390:MET:HE1	1.78	0.64
1:E:248:GLU:HA	1:E:251:MET:CG	2.22	0.64
1:E:251:MET:HB2	1:E:533:LEU:HD12	1.78	0.64
1:E:731:SER:HA	1:E:747:SER:HB2	1.80	0.64
1:E:815:GLU:HA	1:E:815:GLU:OE1	1.98	0.64
1:F:56:LYS:HG2	1:F:71:LEU:HD22	1.79	0.64
1:F:496:HIS:ND1	1:F:654:TYR:HD1	1.93	0.64
2:G:167:ARG:HD3	2:G:210:ALA:O	1.96	0.64
2:G:327:MET:HE2	2:G:334:VAL:CG1	2.28	0.64
2:H:145:GLU:OE1	2:H:472:ALA:HB2	1.97	0.64
2:H:281:GLU:HG3	2:H:284:SER:N	2.11	0.64
2:H:408:ASN:O	2:H:411:ASP:HB3	1.98	0.64
2:I:165:GLU:O	2:I:169:LYS:HD3	1.97	0.64
1:A:74:GLY:CA	1:A:172:LEU:HD13	2.27	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:355:TYR:C	1:A:355:TYR:HD1	2.03	0.64
1:A:369:THR:HG22	1:A:1293:ASN:HD21	1.62	0.64
1:A:452:GLN:HG3	1:A:764:THR:HG22	1.79	0.64
1:C:746:ILE:HG22	1:C:747:SER:O	1.97	0.64
1:C:985:TYR:CE1	1:C:1207:VAL:CG1	2.80	0.64
1:C:1447:TRP:CD2	1:C:1451:VAL:HG22	2.33	0.64
1:D:446:GLU:O	1:D:447:LEU:C	2.40	0.64
1:D:1009:ILE:O	1:D:1010:ALA:C	2.37	0.64
1:E:182:MET:CE	1:E:217:PRO:CA	2.73	0.64
1:E:253:HIS:ND1	1:E:254:PRO:N	2.45	0.64
1:E:302:ALA:HA	1:E:347:ARG:HH12	1.62	0.64
1:E:1113:CYS:SG	6:E:2476:F3S:FE3	1.89	0.64
1:F:119:GLU:O	1:F:120:LYS:C	2.39	0.64
1:F:990:ILE:O	1:F:990:ILE:HG13	1.97	0.64
1:F:1164:ARG:HB3	1:F:1167:LEU:HD12	1.79	0.64
2:G:145:GLU:OE1	2:G:472:ALA:HB2	1.97	0.64
2:G:242:VAL:CG1	2:G:403:PRO:HD3	2.21	0.64
2:G:259:VAL:HG21	2:G:264:TYR:CB	2.14	0.64
2:I:132:TRP:HD1	2:I:202:ARG:HB2	1.60	0.64
2:I:152:VAL:HG13	2:I:175:VAL:CA	2.15	0.64
2:I:220:VAL:CG2	8:I:484:FAD:N1A	2.56	0.64
2:J:264:TYR:HE2	2:J:307:THR:HG23	1.61	0.64
2:J:327:MET:HB2	2:J:346:TRP:HH2	1.54	0.64
2:J:350:PRO:HG3	2:J:380:PRO:CG	2.28	0.64
2:K:317:LYS:HE3	2:K:345:ILE:HD12	1.79	0.64
2:K:327:MET:HE2	2:K:334:VAL:CG1	2.28	0.64
2:L:69:LEU:HD12	2:L:69:LEU:C	2.23	0.64
2:L:290:LYS:CG	2:L:291:HIS:H	2.09	0.64
1:A:52:GLN:HE22	1:A:71:LEU:CB	2.11	0.64
1:A:182:MET:HE1	1:A:217:PRO:O	1.97	0.64
1:A:248:GLU:O	1:A:250:ARG:N	2.31	0.64
1:A:662:GLY:O	1:A:720:ARG:HD3	1.98	0.64
1:A:693:MET:O	1:A:694:ALA:C	2.37	0.64
1:A:1108:CYS:SG	6:A:2476:F3S:FE4	1.90	0.64
1:A:1393:TYR:O	1:A:1394:VAL:CG2	2.44	0.64
1:B:490:ASP:CG	1:B:787:ARG:HH21	2.06	0.64
1:C:896:PRO:HG3	1:E:1225:GLU:HB3	1.78	0.64
1:C:1050:SER:O	1:C:1054:GLN:HG3	1.97	0.64
1:C:1442:GLU:HA	2:J:373:ASP:OD2	1.97	0.64
1:D:482:ASP:OD1	1:D:788:HIS:HD2	1.81	0.64
1:E:359:THR:HG23	1:E:378:GLN:HB3	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:675:ILE:O	1:E:678:ARG:HB2	1.98	0.64
1:E:1438:ARG:HB3	2:K:375:THR:HA	1.80	0.64
1:F:453:ALA:O	1:F:761:GLN:HG3	1.97	0.64
1:F:515:ARG:CD	1:F:1367:TYR:HE1	2.04	0.64
1:F:745:ARG:O	1:F:746:ILE:HG13	1.98	0.64
2:G:77:LEU:O	2:G:127:ILE:HD11	1.98	0.64
2:G:229:LEU:O	2:G:233:HIS:HB2	1.97	0.64
2:G:408:ASN:O	2:G:411:ASP:HB3	1.98	0.64
2:H:146:LEU:HD22	2:H:146:LEU:H	1.63	0.64
2:H:309:ILE:HD11	2:H:340:GLU:OE2	1.98	0.64
2:H:319:LEU:HA	2:H:345:ILE:CD1	2.28	0.64
2:I:220:VAL:HG23	8:I:484:FAD:C6A	2.27	0.64
2:J:408:ASN:O	2:J:411:ASP:HB3	1.98	0.64
2:K:69:LEU:HD12	2:K:69:LEU:C	2.23	0.64
2:K:146:LEU:HD22	2:K:146:LEU:H	1.63	0.64
2:K:165:GLU:O	2:K:169:LYS:HD3	1.97	0.64
1:A:426:LEU:CD1	1:A:558:MET:HG3	2.28	0.64
1:A:1221:PRO:CB	1:A:1229:MET:CE	2.73	0.64
1:B:877:ARG:CG	1:F:1230:GLN:N	2.61	0.64
1:B:950:THR:CG2	1:B:951:GLU:H	2.06	0.64
1:B:1135:VAL:O	1:B:1136:VAL:C	2.33	0.64
1:B:1401:LEU:N	1:B:1402:PRO:CD	2.59	0.64
1:C:746:ILE:HG22	1:C:747:SER:N	2.09	0.64
1:D:409:HIS:O	1:D:412:THR:HB	1.98	0.64
1:E:107:TRP:CD1	1:E:107:TRP:H	2.15	0.64
1:E:369:THR:HG22	1:E:1293:ASN:HD21	1.62	0.64
1:E:662:GLY:O	1:E:720:ARG:HD3	1.98	0.64
1:E:1374:VAL:O	1:E:1375:ILE:HG13	1.98	0.64
1:F:266:VAL:O	1:F:279:THR:HG23	1.98	0.64
2:G:238:VAL:HG22	2:G:438:PHE:O	1.98	0.64
2:G:267:THR:HG21	2:G:286:ASN:HD21	1.61	0.64
2:G:319:LEU:HA	2:G:345:ILE:CD1	2.28	0.64
2:G:337:ALA:O	2:G:340:GLU:HB2	1.97	0.64
2:G:353:PHE:CE1	2:G:370:GLY:HA3	2.33	0.64
2:H:351:GLU:HB3	2:H:353:PHE:HB3	1.80	0.64
2:J:351:GLU:HB3	2:J:353:PHE:HB3	1.80	0.64
2:L:77:LEU:O	2:L:127:ILE:HD11	1.98	0.64
2:L:249:LYS:HG3	2:L:258:ILE:HD11	1.78	0.64
2:L:350:PRO:HG3	2:L:380:PRO:CG	2.28	0.64
2:L:353:PHE:CE1	2:L:370:GLY:HA3	2.33	0.64
1:A:386:GLY:O	1:A:389:GLU:HG3	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:746:ILE:HG22	1:A:747:SER:N	2.09	0.64
1:B:260:MET:O	1:B:263:LEU:N	2.31	0.64
1:C:662:GLY:O	1:C:720:ARG:HD3	1.98	0.64
1:C:815:GLU:HA	1:C:815:GLU:OE1	1.98	0.64
1:C:902:ASN:HD22	1:E:1227:GLU:CG	2.09	0.64
1:C:1112:THR:O	1:C:1114:PRO:HD3	1.97	0.64
1:C:1113:CYS:SG	6:C:2476:F3S:FE3	1.89	0.64
1:D:515:ARG:HD2	1:D:1367:TYR:CZ	2.31	0.64
1:D:555:PHE:HD1	1:D:556:ARG:N	1.96	0.64
1:D:783:LYS:CE	2:H:57:VAL:CG1	2.36	0.64
1:D:1131:THR:HG22	1:D:1134:LYS:N	2.12	0.64
1:D:1369:THR:CG2	1:D:1369:THR:O	2.46	0.64
1:E:426:LEU:CD1	1:E:558:MET:HG3	2.28	0.64
1:E:621:ILE:HG13	1:E:658:LEU:HD13	1.79	0.64
1:E:1311:THR:HG23	1:E:1312:SER:H	1.60	0.64
2:G:120:ILE:O	2:G:123:VAL:HG23	1.98	0.64
2:G:165:GLU:O	2:G:169:LYS:HD3	1.97	0.64
2:G:178:ARG:HB2	2:G:219:GLU:OE1	1.98	0.64
2:G:207:LEU:CG	2:G:212:VAL:HG11	2.26	0.64
2:H:69:LEU:HD12	2:H:69:LEU:C	2.23	0.64
2:H:327:MET:HE2	2:H:334:VAL:CG1	2.28	0.64
2:I:167:ARG:NH2	2:I:170:GLY:HA2	2.12	0.64
2:I:408:ASN:O	2:I:411:ASP:HB3	1.98	0.64
2:K:153:ILE:HD11	8:K:484:FAD:N1A	2.13	0.64
2:K:350:PRO:HG3	2:K:380:PRO:CG	2.28	0.64
2:K:351:GLU:HB3	2:K:353:PHE:HB3	1.80	0.64
2:K:471:LYS:HA	2:K:471:LYS:CE	2.23	0.64
2:L:207:LEU:CG	2:L:212:VAL:HG11	2.26	0.64
2:L:238:VAL:HG22	2:L:438:PHE:O	1.98	0.64
2:L:302:MET:HG3	2:L:333:GLU:CD	2.22	0.64
1:A:29:TRP:CD1	1:A:29:TRP:H	2.16	0.64
1:A:312:ASN:OD1	1:A:312:ASN:N	2.22	0.64
1:A:704:LEU:C	1:A:706:LYS:N	2.54	0.64
1:B:947:PHE:HD1	1:B:947:PHE:O	1.80	0.64
1:B:1131:THR:HG22	1:B:1134:LYS:N	2.12	0.64
1:C:122:ASN:OD1	1:C:125:ARG:NH1	2.25	0.64
1:C:345:MET:CE	1:C:385:LEU:HB2	2.28	0.64
1:C:386:GLY:O	1:C:389:GLU:HG3	1.98	0.64
1:C:777:GLY:HA3	2:K:52:VAL:HG12	1.79	0.64
1:C:1108:CYS:SG	6:C:2476:F3S:FE4	1.90	0.64
1:C:1349:ARG:HH11	1:C:1349:ARG:HG2	1.62	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:59:VAL:HG22	1:D:105:TYR:CD2	2.33	0.64
1:D:98:LEU:O	1:D:101:GLY:N	2.25	0.64
1:E:52:GLN:HE22	1:E:71:LEU:CB	2.11	0.64
1:E:74:GLY:CA	1:E:172:LEU:HD13	2.28	0.64
1:F:1131:THR:HG22	1:F:1134:LYS:N	2.12	0.64
1:F:1394:VAL:HG11	1:F:1401:LEU:HD22	1.79	0.64
1:F:1447:TRP:O	1:F:1451:VAL:HG23	1.98	0.64
2:G:199:VAL:O	2:G:203:ARG:HD2	1.97	0.64
2:H:321:ARG:HA	2:H:352:GLY:H	1.63	0.64
2:I:153:ILE:HD11	8:I:484:FAD:N1A	2.13	0.64
2:J:418:THR:HG23	2:J:422:THR:HG23	1.77	0.64
2:K:238:VAL:HG22	2:K:438:PHE:O	1.98	0.64
2:K:408:ASN:O	2:K:411:ASP:HB3	1.98	0.64
2:L:167:ARG:NH2	2:L:170:GLY:HA2	2.12	0.64
2:L:281:GLU:HG3	2:L:284:SER:N	2.11	0.64
2:L:408:ASN:O	2:L:411:ASP:HB3	1.98	0.64
2:L:418:THR:CA	2:L:424:LEU:HD21	2.28	0.64
1:A:426:LEU:HD11	1:A:558:MET:HG3	1.79	0.63
1:B:782:ARG:NH2	2:G:51:GLY:HA3	0.97	0.63
1:B:920:GLU:CB	1:B:1256:MET:HE2	2.27	0.63
1:B:1369:THR:CG2	1:B:1369:THR:O	2.46	0.63
1:E:64:HIS:CE1	1:F:1173:ARG:HH12	2.15	0.63
1:E:465:LEU:HD12	1:E:465:LEU:O	1.98	0.63
1:E:629:THR:O	1:E:630:HIS:C	2.37	0.63
1:E:1164:ARG:NH1	1:E:1166:ASP:OD2	2.31	0.63
1:E:1282:GLN:HA	1:E:1302:GLY:O	1.98	0.63
1:F:482:ASP:OD1	1:F:788:HIS:HD2	1.81	0.63
1:F:782:ARG:NH2	2:I:51:GLY:HA3	0.97	0.63
1:F:947:PHE:HD1	1:F:947:PHE:O	1.80	0.63
2:G:146:LEU:HD22	2:G:146:LEU:H	1.63	0.63
2:G:156:GLY:O	2:G:160:LEU:HD12	1.97	0.63
2:G:321:ARG:HA	2:G:352:GLY:H	1.62	0.63
2:H:77:LEU:O	2:H:127:ILE:HD11	1.98	0.63
2:H:181:ARG:HB3	2:H:181:ARG:NH1	2.14	0.63
2:H:238:VAL:HG22	2:H:438:PHE:O	1.98	0.63
2:I:178:ARG:HB2	2:I:219:GLU:OE1	1.98	0.63
2:I:186:LEU:CD2	2:I:195:LEU:HD11	2.27	0.63
2:I:302:MET:CE	2:I:334:VAL:HA	2.28	0.63
2:K:319:LEU:HA	2:K:345:ILE:CD1	2.28	0.63
2:L:181:ARG:HB3	2:L:181:ARG:NH1	2.14	0.63
1:A:465:LEU:HD12	1:A:465:LEU:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:746:ILE:HG22	1:A:747:SER:O	1.97	0.63
1:A:1395:TYR:CZ	1:A:1397:LEU:HD21	2.34	0.63
1:B:409:HIS:O	1:B:412:THR:HB	1.98	0.63
1:B:555:PHE:HD1	1:B:556:ARG:N	1.96	0.63
1:B:1274:GLN:HE21	1:B:1293:ASN:HB3	1.61	0.63
1:C:30:HIS:HE1	1:C:368:GLU:OE1	1.81	0.63
1:C:52:GLN:HE22	1:C:71:LEU:CB	2.11	0.63
1:C:370:GLY:HA3	1:C:1237:ASN:HB3	1.80	0.63
1:C:1164:ARG:NH1	1:C:1166:ASP:OD2	2.31	0.63
1:D:353:MET:HG2	1:D:385:LEU:CD2	2.29	0.63
1:D:453:ALA:O	1:D:761:GLN:HG3	1.97	0.63
1:E:30:HIS:HE1	1:E:368:GLU:OE1	1.81	0.63
1:E:386:GLY:O	1:E:389:GLU:HG3	1.98	0.63
1:E:643:ASN:HD22	1:E:665:THR:CG2	2.10	0.63
1:F:59:VAL:HG22	1:F:105:TYR:CD2	2.33	0.63
1:F:218:THR:HG22	1:F:221:LEU:H	1.62	0.63
1:F:1369:THR:CG2	1:F:1369:THR:O	2.46	0.63
2:H:165:GLU:O	2:H:169:LYS:HD3	1.97	0.63
2:J:317:LYS:HE3	2:J:345:ILE:HD12	1.79	0.63
2:K:309:ILE:HD11	2:K:340:GLU:OE2	1.98	0.63
2:L:153:ILE:HD11	8:L:484:FAD:N1A	2.13	0.63
2:L:302:MET:CE	2:L:334:VAL:HA	2.28	0.63
1:A:1113:CYS:SG	6:A:2476:F3S:FE3	1.89	0.63
1:A:1220:ARG:HB3	1:A:1221:PRO:HD3	1.81	0.63
1:C:466:HIS:ND1	1:C:678:ARG:NH1	2.46	0.63
1:C:958:HIS:N	1:C:958:HIS:ND1	2.45	0.63
1:D:113:ASN:HD22	1:D:115:ASP:H	1.41	0.63
1:E:227:MET:CE	1:E:282:GLU:HG2	2.28	0.63
1:E:248:GLU:O	1:E:250:ARG:N	2.31	0.63
1:E:958:HIS:O	1:E:1369:THR:HG21	1.99	0.63
1:E:1108:CYS:SG	6:E:2476:F3S:FE4	1.90	0.63
1:F:295:LYS:HB3	1:F:390:MET:HE1	1.78	0.63
2:G:153:ILE:HD11	8:G:484:FAD:N1A	2.13	0.63
2:G:317:LYS:HE3	2:G:345:ILE:HD12	1.79	0.63
2:H:175:VAL:CG1	2:H:214:TYR:HA	2.23	0.63
2:H:178:ARG:HB2	2:H:219:GLU:OE1	1.98	0.63
2:H:199:VAL:O	2:H:203:ARG:HD2	1.97	0.63
2:H:264:TYR:HE2	2:H:307:THR:HG23	1.61	0.63
2:H:350:PRO:HG3	2:H:380:PRO:CG	2.28	0.63
2:I:120:ILE:O	2:I:123:VAL:HG23	1.98	0.63
2:I:317:LYS:HE3	2:I:345:ILE:HD12	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:146:LEU:H	2:J:146:LEU:HD22	1.63	0.63
2:J:354:THR:HA	2:J:369:LEU:HG	1.80	0.63
2:K:77:LEU:O	2:K:127:ILE:HD11	1.98	0.63
2:K:418:THR:CA	2:K:424:LEU:HD21	2.28	0.63
2:L:120:ILE:O	2:L:123:VAL:HG23	1.98	0.63
1:A:512:ASP:OD2	1:A:1367:TYR:OH	2.13	0.63
1:B:443:ASP:OD2	1:B:445:ALA:HB3	1.97	0.63
1:B:1447:TRP:O	1:B:1451:VAL:HG23	1.98	0.63
1:C:248:GLU:O	1:C:250:ARG:N	2.31	0.63
1:C:958:HIS:O	1:C:1369:THR:HG21	1.99	0.63
1:C:1007:GLY:O	1:C:1010:ALA:HB3	1.99	0.63
1:D:782:ARG:NH2	2:H:51:GLY:HA3	0.97	0.63
1:E:209:GLN:HG3	1:E:210:ARG:N	2.13	0.63
1:E:643:ASN:HD22	1:E:665:THR:HB	1.63	0.63
1:E:746:ILE:HG22	1:E:747:SER:O	1.97	0.63
1:E:891:PRO:HB3	1:E:894:PHE:CE2	2.34	0.63
1:F:52:GLN:HE22	1:F:71:LEU:N	1.96	0.63
2:G:144:ARG:NH1	2:G:169:LYS:HA	2.14	0.63
2:G:181:ARG:HB3	2:G:181:ARG:NH1	2.14	0.63
2:G:309:ILE:HD11	2:G:340:GLU:OE2	1.98	0.63
2:G:351:GLU:HB3	2:G:353:PHE:HB3	1.80	0.63
2:G:418:THR:CA	2:G:424:LEU:HD21	2.28	0.63
2:I:92:GLU:OE2	2:I:202:ARG:HD3	1.99	0.63
2:I:144:ARG:NH1	2:I:169:LYS:HA	2.14	0.63
2:I:181:ARG:NH1	2:I:181:ARG:HB3	2.14	0.63
2:I:236:VAL:HG23	2:I:437:VAL:HA	1.80	0.63
2:I:309:ILE:HD11	2:I:340:GLU:OE2	1.98	0.63
2:J:242:VAL:CG1	2:J:403:PRO:HD3	2.21	0.63
2:J:281:GLU:HG3	2:J:284:SER:N	2.11	0.63
2:K:318:CYS:O	2:K:345:ILE:HD13	1.99	0.63
2:L:144:ARG:NH1	2:L:169:LYS:HA	2.14	0.63
2:L:241:GLY:H	2:L:443:ILE:HG23	1.64	0.63
2:L:309:ILE:HD11	2:L:340:GLU:OE2	1.98	0.63
1:A:370:GLY:HA3	1:A:1237:ASN:HB3	1.79	0.63
1:B:492:TYR:OH	1:B:648:GLU:OE2	2.14	0.63
1:B:528:ASN:CB	1:B:542:LEU:HD22	2.29	0.63
1:B:745:ARG:O	1:B:746:ILE:HG13	1.98	0.63
1:B:820:ARG:HB3	1:B:821:PRO:HD2	1.78	0.63
1:C:145:GLU:O	1:C:146:LEU:C	2.41	0.63
1:C:603:HIS:HA	1:C:640:THR:HG22	1.81	0.63
1:D:339:ARG:HG3	1:D:396:GLN:HG3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:29:TRP:CD1	1:E:29:TRP:H	2.16	0.63
1:E:370:GLY:HA3	1:E:1237:ASN:HB3	1.79	0.63
1:F:113:ASN:HD22	1:F:115:ASP:H	1.41	0.63
1:F:193:PRO:O	1:F:194:ASP:C	2.40	0.63
2:G:179:TYR:HB2	2:G:181:ARG:HH12	1.64	0.63
2:G:302:MET:CE	2:G:334:VAL:HA	2.28	0.63
2:H:153:ILE:HD11	8:H:484:FAD:N1A	2.13	0.63
2:I:69:LEU:HD12	2:I:69:LEU:C	2.23	0.63
2:I:418:THR:CA	2:I:424:LEU:HD21	2.28	0.63
2:J:92:GLU:OE2	2:J:202:ARG:HD3	1.99	0.63
2:J:181:ARG:HB3	2:J:181:ARG:NH1	2.14	0.63
2:J:431:MET:HG2	2:J:438:PHE:CE2	2.34	0.63
2:K:199:VAL:O	2:K:203:ARG:HD2	1.97	0.63
2:K:354:THR:HA	2:K:369:LEU:HG	1.80	0.63
2:L:302:MET:HE2	2:L:333:GLU:HG3	1.81	0.63
1:A:30:HIS:HE1	1:A:368:GLU:OE1	1.81	0.63
1:A:978:GLU:O	1:A:981:ALA:HB3	1.99	0.63
1:A:1227:GLU:CG	1:E:902:ASN:HD22	2.09	0.63
1:A:1442:GLU:HA	2:L:373:ASP:OD2	1.97	0.63
1:B:236:THR:HG22	1:B:328:ASP:H	1.62	0.63
1:B:266:VAL:O	1:B:279:THR:HG23	1.98	0.63
1:C:116:ILE:HD13	1:C:190:THR:CG2	2.29	0.63
1:C:253:HIS:ND1	1:C:254:PRO:N	2.45	0.63
1:C:1221:PRO:CB	1:C:1229:MET:CE	2.73	0.63
1:C:1435:THR:HG23	1:C:1437:SER:H	1.63	0.63
1:D:152:ARG:O	1:D:156:GLU:HB2	1.99	0.63
1:D:452:GLN:HG3	1:D:765:ALA:HB2	1.78	0.63
1:E:116:ILE:HD13	1:E:190:THR:CG2	2.29	0.63
1:E:974:ILE:CD1	1:E:983:LEU:HD12	2.19	0.63
2:G:69:LEU:HD12	2:G:69:LEU:C	2.23	0.63
2:G:182:MET:O	2:G:187:VAL:HG21	1.99	0.63
2:G:186:LEU:CD2	2:G:195:LEU:HD11	2.27	0.63
2:G:197:LYS:HB3	2:G:273:LEU:HG	1.81	0.63
2:G:431:MET:HG2	2:G:438:PHE:CE2	2.34	0.63
2:H:186:LEU:CD2	2:H:195:LEU:HD11	2.27	0.63
2:I:318:CYS:O	2:I:345:ILE:HD13	1.99	0.63
2:J:178:ARG:HB2	2:J:219:GLU:OE1	1.98	0.63
2:K:92:GLU:OE2	2:K:202:ARG:HD3	1.99	0.63
2:K:144:ARG:NH1	2:K:169:LYS:HA	2.14	0.63
2:L:186:LEU:CD2	2:L:195:LEU:HD11	2.27	0.63
2:L:197:LYS:HB3	2:L:273:LEU:HG	1.81	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:431:MET:HG2	2:L:438:PHE:CE2	2.34	0.63
1:A:56:LYS:O	1:A:57:ASP:C	2.42	0.63
1:B:510:PRO:HD2	1:B:970:PRO:HB3	1.81	0.63
1:B:643:ASN:HB3	1:B:665:THR:CG2	2.29	0.63
1:B:1131:THR:CG2	1:B:1133:GLU:HB2	2.29	0.63
1:C:227:MET:CE	1:C:282:GLU:HG2	2.28	0.63
1:C:511:ILE:CG2	1:C:512:ASP:N	2.59	0.63
1:C:515:ARG:NH2	1:C:966:ILE:HB	2.13	0.63
1:C:891:PRO:HB3	1:C:894:PHE:CE2	2.34	0.63
1:D:439:PRO:HG2	1:D:439:PRO:O	1.99	0.63
1:D:1052:VAL:O	1:D:1053:HIS:C	2.38	0.63
1:D:1389:GLY:HA2	1:D:1459:PRO:HG2	1.81	0.63
1:E:145:GLU:O	1:E:146:LEU:C	2.41	0.63
1:E:1007:GLY:O	1:E:1010:ALA:HB3	1.99	0.63
1:E:1417:VAL:HG12	1:E:1419:HIS:H	1.64	0.63
1:F:353:MET:HG2	1:F:385:LEU:CD2	2.29	0.63
1:F:643:ASN:HB3	1:F:665:THR:CG2	2.29	0.63
2:G:92:GLU:OE2	2:G:202:ARG:HD3	1.99	0.63
2:G:241:GLY:H	2:G:443:ILE:HG23	1.64	0.63
2:H:144:ARG:NH1	2:H:169:LYS:HA	2.14	0.63
2:H:182:MET:O	2:H:187:VAL:HG21	1.99	0.63
2:H:302:MET:CE	2:H:334:VAL:HA	2.28	0.63
2:H:317:LYS:HE3	2:H:345:ILE:HD12	1.79	0.63
2:J:144:ARG:NH1	2:J:169:LYS:HA	2.14	0.63
2:J:321:ARG:HA	2:J:352:GLY:H	1.62	0.63
2:K:90:PHE:HB3	2:K:93:ILE:HG21	1.76	0.63
2:K:153:ILE:O	2:K:239:ALA:HB3	1.99	0.63
2:K:178:ARG:HB2	2:K:219:GLU:OE1	1.98	0.63
2:L:179:TYR:HB2	2:L:181:ARG:HH12	1.64	0.63
2:L:182:MET:O	2:L:187:VAL:HG21	1.99	0.63
2:L:318:CYS:O	2:L:345:ILE:HD13	1.99	0.63
2:L:327:MET:HE2	2:L:334:VAL:CG1	2.28	0.63
1:A:80:ARG:HD3	1:A:125:ARG:O	1.98	0.63
1:A:345:MET:CE	1:A:385:LEU:HB2	2.28	0.63
1:A:403:ASP:OD2	1:A:407:LYS:NZ	2.32	0.63
1:A:675:ILE:O	1:A:678:ARG:HB2	1.98	0.63
1:A:815:GLU:HA	1:A:815:GLU:OE1	1.98	0.63
1:C:897:ASP:OD1	1:C:897:ASP:C	2.42	0.63
1:C:1008:THR:HG22	1:C:1009:ILE:H	1.64	0.63
1:C:1062:ARG:O	1:C:1062:ARG:CG	2.44	0.63
1:C:1282:GLN:HA	1:C:1302:GLY:O	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1374:VAL:O	1:C:1375:ILE:HG13	1.98	0.63
1:D:745:ARG:O	1:D:746:ILE:HG13	1.98	0.63
1:D:990:ILE:O	1:D:990:ILE:HG13	1.97	0.63
1:E:80:ARG:HD3	1:E:125:ARG:O	1.98	0.63
1:E:182:MET:HE1	1:E:217:PRO:O	1.97	0.63
1:E:355:TYR:C	1:E:355:TYR:HD1	2.03	0.63
1:E:746:ILE:C	1:E:747:SER:O	2.35	0.63
1:E:782:ARG:HG3	2:L:52:VAL:CB	2.18	0.63
1:E:1447:TRP:CD2	1:E:1451:VAL:HG22	2.33	0.63
1:F:447:LEU:HD21	1:F:674:ALA:CA	2.29	0.63
1:F:492:TYR:OH	1:F:648:GLU:OE2	2.14	0.63
1:F:1131:THR:CG2	1:F:1133:GLU:HB2	2.29	0.63
2:G:264:TYR:HE2	2:G:307:THR:HG23	1.61	0.63
2:H:353:PHE:CE1	2:H:370:GLY:HA3	2.33	0.63
2:H:449:LEU:HB3	2:H:452:TRP:CE3	2.34	0.63
2:I:182:MET:O	2:I:187:VAL:HG21	1.99	0.63
2:I:259:VAL:HG21	2:I:264:TYR:CB	2.14	0.63
2:I:302:MET:HE2	2:I:333:GLU:HG3	1.81	0.63
2:J:179:TYR:HB2	2:J:181:ARG:HH12	1.64	0.63
2:J:182:MET:O	2:J:187:VAL:HG21	1.99	0.63
2:K:181:ARG:HB3	2:K:181:ARG:NH1	2.14	0.63
2:K:197:LYS:HB3	2:K:273:LEU:HG	1.81	0.63
2:K:281:GLU:HG3	2:K:284:SER:N	2.11	0.63
2:K:302:MET:CE	2:K:334:VAL:HA	2.28	0.63
2:L:186:LEU:HD11	2:L:200:VAL:CB	2.28	0.63
1:A:116:ILE:HD13	1:A:190:THR:CG2	2.29	0.63
1:A:695:ASN:O	1:A:696:TYR:C	2.37	0.63
1:B:152:ARG:O	1:B:156:GLU:HB2	1.99	0.63
1:B:515:ARG:CD	1:B:1367:TYR:HE1	2.04	0.63
1:C:24:ALA:CB	1:C:207:TYR:CE2	2.82	0.63
1:C:369:THR:HG22	1:C:1293:ASN:HD21	1.62	0.63
1:C:493:ARG:NH2	1:C:786:ASP:OD1	2.32	0.63
1:C:938:PRO:HG2	1:C:1041:ALA:HB1	1.81	0.63
1:C:1220:ARG:HB3	1:C:1221:PRO:HD3	1.81	0.63
1:D:193:PRO:O	1:D:194:ASP:C	2.40	0.63
1:D:538:THR:O	1:D:538:THR:HG23	1.97	0.63
1:D:1159:ASN:O	1:D:1161:VAL:N	2.32	0.63
1:E:312:ASN:OD1	1:E:312:ASN:N	2.22	0.63
1:E:345:MET:CE	1:E:385:LEU:HB2	2.28	0.63
1:E:746:ILE:HG23	1:E:1182:ASP:CB	2.29	0.63
1:F:249:THR:O	1:F:249:THR:HG23	1.98	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:464:ILE:CD1	1:F:779:TYR:CZ	2.81	0.63
1:F:555:PHE:HD1	1:F:556:ARG:N	1.96	0.63
1:F:780:ARG:HB3	2:I:51:GLY:C	2.24	0.63
1:F:782:ARG:NH2	2:I:51:GLY:HA2	0.72	0.63
1:F:1112:THR:O	1:F:1114:PRO:HD3	1.99	0.63
2:G:153:ILE:O	2:G:239:ALA:HB3	1.99	0.63
2:G:281:GLU:HG3	2:G:284:SER:N	2.11	0.63
2:H:236:VAL:HG23	2:H:437:VAL:HA	1.80	0.63
2:H:431:MET:HG2	2:H:438:PHE:CE2	2.34	0.63
2:I:77:LEU:O	2:I:127:ILE:HD11	1.98	0.63
2:I:146:LEU:H	2:I:146:LEU:HD22	1.63	0.63
2:J:132:TRP:HD1	2:J:202:ARG:HB2	1.60	0.63
2:J:175:VAL:CG1	2:J:214:TYR:HA	2.23	0.63
2:J:236:VAL:HG23	2:J:437:VAL:HA	1.80	0.63
2:J:302:MET:CE	2:J:334:VAL:HA	2.28	0.63
2:K:182:MET:O	2:K:187:VAL:HG21	1.99	0.63
2:L:146:LEU:HD22	2:L:146:LEU:H	1.63	0.63
1:A:746:ILE:HG23	1:A:1182:ASP:CB	2.29	0.62
1:A:1007:GLY:O	1:A:1010:ALA:HB3	1.99	0.62
1:A:1164:ARG:NH1	1:A:1166:ASP:OD2	2.31	0.62
1:A:1282:GLN:HA	1:A:1302:GLY:O	1.98	0.62
1:A:1300:LEU:HD12	1:A:1301:SER:H	1.64	0.62
1:A:1376:LEU:HB3	1:A:1439:PHE:CE1	2.32	0.62
1:B:319:TYR:O	1:B:322:SER:OG	2.09	0.62
1:B:453:ALA:O	1:B:761:GLN:HG3	1.97	0.62
1:B:482:ASP:OD1	1:B:788:HIS:HD2	1.81	0.62
1:C:235:ASN:C	1:C:235:ASN:ND2	2.52	0.62
1:C:491:LYS:HZ2	1:C:785:GLY:HA3	1.63	0.62
1:C:1300:LEU:HD12	1:C:1301:SER:H	1.64	0.62
1:D:52:GLN:HE22	1:D:71:LEU:N	1.96	0.62
1:D:351:ARG:HA	1:D:351:ARG:HE	1.64	0.62
1:D:653:HIS:O	1:D:654:TYR:C	2.39	0.62
1:D:780:ARG:HB3	2:H:51:GLY:C	2.24	0.62
1:D:1105:VAL:HA	2:H:54:PHE:CE1	2.34	0.62
1:E:978:GLU:O	1:E:981:ALA:HB3	1.99	0.62
1:F:439:PRO:HG2	1:F:439:PRO:O	1.99	0.62
1:F:538:THR:HG23	1:F:538:THR:O	1.97	0.62
1:F:569:ILE:HD13	1:F:569:ILE:N	2.12	0.62
1:F:864:SER:HG	1:F:867:ALA:H	1.47	0.62
2:G:449:LEU:HB3	2:G:452:TRP:CE3	2.34	0.62
2:H:153:ILE:O	2:H:239:ALA:HB3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:207:LEU:HD12	2:H:207:LEU:C	2.24	0.62
2:I:179:TYR:HB2	2:I:181:ARG:HH12	1.64	0.62
2:I:431:MET:HG2	2:I:438:PHE:CE2	2.34	0.62
2:J:153:ILE:O	2:J:239:ALA:HB3	1.99	0.62
2:J:350:PRO:CD	2:J:374:ALA:HB2	2.29	0.62
2:L:92:GLU:OE2	2:L:202:ARG:HD3	1.99	0.62
2:L:236:VAL:HG23	2:L:437:VAL:HA	1.80	0.62
2:L:317:LYS:HE3	2:L:345:ILE:HG21	1.81	0.62
2:L:354:THR:HA	2:L:369:LEU:HG	1.80	0.62
1:A:1227:GLU:CG	1:E:902:ASN:ND2	2.62	0.62
1:A:1438:ARG:HB3	2:L:375:THR:CA	2.14	0.62
1:C:259:HIS:O	1:C:260:MET:C	2.39	0.62
1:C:403:ASP:OD2	1:C:407:LYS:NZ	2.32	0.62
1:C:465:LEU:HD12	1:C:465:LEU:O	1.98	0.62
1:C:643:ASN:HD22	1:C:665:THR:HB	1.64	0.62
1:D:235:ASN:HD21	1:D:328:ASP:HB3	1.64	0.62
1:D:254:PRO:HG2	1:D:255:ALA:N	2.10	0.62
1:D:442:MET:HE3	1:D:446:GLU:HB3	1.81	0.62
1:E:1435:THR:HG23	1:E:1437:SER:H	1.63	0.62
2:G:186:LEU:HD11	2:G:200:VAL:CB	2.28	0.62
2:G:220:VAL:HG22	8:G:484:FAD:C6A	2.29	0.62
2:G:318:CYS:O	2:G:345:ILE:HD13	1.99	0.62
2:G:350:PRO:HG3	2:G:380:PRO:CG	2.28	0.62
2:H:92:GLU:OE2	2:H:202:ARG:HD3	1.99	0.62
2:I:350:PRO:CD	2:I:374:ALA:HB2	2.29	0.62
2:I:351:GLU:HB3	2:I:353:PHE:HB3	1.80	0.62
2:J:153:ILE:HD11	8:J:484:FAD:N1A	2.13	0.62
2:J:353:PHE:CE1	2:J:370:GLY:HA3	2.33	0.62
2:J:469:LYS:HZ3	2:J:476:VAL:HA	1.64	0.62
2:J:478:VAL:HG23	2:J:479:ALA:N	2.14	0.62
2:K:220:VAL:HG23	8:K:484:FAD:C6A	2.27	0.62
2:K:236:VAL:HG23	2:K:437:VAL:HA	1.80	0.62
2:K:321:ARG:HA	2:K:352:GLY:H	1.62	0.62
2:K:449:LEU:HB3	2:K:452:TRP:CE3	2.34	0.62
2:L:350:PRO:CD	2:L:374:ALA:HB2	2.30	0.62
1:A:625:GLY:O	1:A:626:ALA:C	2.42	0.62
1:A:731:SER:HA	1:A:747:SER:HB2	1.80	0.62
1:A:1374:VAL:O	1:A:1375:ILE:HG13	1.98	0.62
1:B:74:GLY:CA	1:B:172:LEU:HD13	2.30	0.62
1:B:218:THR:HG22	1:B:221:LEU:H	1.62	0.62
1:B:423:THR:OG1	1:B:540:THR:HG22	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:658:LEU:HD23	1:B:666:VAL:CG2	2.29	0.62
1:C:494:GLY:O	1:C:495:LEU:C	2.42	0.62
1:C:513:SER:HB3	1:C:520:MET:HE1	1.81	0.62
1:C:902:ASN:ND2	1:E:1227:GLU:CG	2.62	0.62
1:D:260:MET:O	1:D:263:LEU:N	2.31	0.62
1:D:1290:GLY:O	1:D:1291:ASP:HB3	1.99	0.62
1:E:732:ARG:NH1	1:F:94:GLU:OE2	2.28	0.62
1:E:1395:TYR:CZ	1:E:1397:LEU:HD21	2.34	0.62
1:F:182:MET:HE1	1:F:217:PRO:CA	2.23	0.62
1:F:513:SER:HB3	1:F:520:MET:HE1	1.79	0.62
1:F:528:ASN:CB	1:F:542:LEU:HD22	2.29	0.62
1:F:1389:GLY:HA2	1:F:1459:PRO:HG2	1.81	0.62
2:G:63:ASN:HA	2:G:87:THR:HG21	1.82	0.62
2:H:92:GLU:OE2	2:H:202:ARG:HB3	2.00	0.62
2:H:197:LYS:HB3	2:H:273:LEU:HG	1.81	0.62
2:I:353:PHE:CE1	2:I:370:GLY:HA3	2.33	0.62
2:I:449:LEU:HB3	2:I:452:TRP:CE3	2.34	0.62
2:J:69:LEU:HD12	2:J:69:LEU:C	2.23	0.62
2:K:305:VAL:HG11	2:K:342:VAL:HG21	1.82	0.62
2:L:178:ARG:HB2	2:L:219:GLU:OE1	1.98	0.62
1:A:515:ARG:NH2	1:A:966:ILE:HB	2.13	0.62
1:A:643:ASN:HD22	1:A:665:THR:HB	1.63	0.62
1:A:782:ARG:CG	2:J:56:GLN:HE21	2.13	0.62
1:A:1417:VAL:HG12	1:A:1419:HIS:H	1.64	0.62
1:A:1435:THR:HG23	1:A:1437:SER:H	1.63	0.62
1:A:1449:ARG:NH1	1:A:1449:ARG:CB	2.14	0.62
1:C:1376:LEU:HB3	1:C:1439:PHE:CE1	2.32	0.62
1:D:266:VAL:O	1:D:279:THR:HG23	1.98	0.62
1:D:528:ASN:CB	1:D:542:LEU:HD22	2.29	0.62
1:D:643:ASN:HB3	1:D:665:THR:CG2	2.29	0.62
1:D:1131:THR:CG2	1:D:1133:GLU:HB2	2.29	0.62
1:E:513:SER:HB3	1:E:520:MET:HE1	1.81	0.62
1:E:643:ASN:HD22	1:E:665:THR:HG21	1.65	0.62
1:F:152:ARG:O	1:F:156:GLU:HB2	1.99	0.62
1:F:339:ARG:HG3	1:F:396:GLN:HG3	1.80	0.62
1:F:342:VAL:HG11	1:F:390:MET:HE2	1.82	0.62
1:F:658:LEU:HD23	1:F:666:VAL:CG2	2.29	0.62
1:F:1290:GLY:O	1:F:1291:ASP:HB3	1.99	0.62
2:H:478:VAL:HG23	2:H:479:ALA:N	2.14	0.62
2:J:309:ILE:HD11	2:J:340:GLU:OE2	1.98	0.62
2:K:92:GLU:OE2	2:K:202:ARG:HB3	2.00	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:186:LEU:HD11	2:K:200:VAL:CB	2.28	0.62
1:A:891:PRO:HB3	1:A:894:PHE:CE2	2.34	0.62
1:B:442:MET:HE3	1:B:446:GLU:HB3	1.80	0.62
1:B:1105:VAL:HA	2:G:54:PHE:CE1	2.34	0.62
1:B:1159:ASN:O	1:B:1161:VAL:N	2.32	0.62
1:B:1228:LYS:HD3	1:D:901:ASP:OD1	2.00	0.62
1:C:57:ASP:O	1:C:58:HIS:C	2.41	0.62
1:C:293:MET:HG2	1:C:410:LEU:HD23	1.82	0.62
1:C:731:SER:HA	1:C:747:SER:HB2	1.80	0.62
1:C:908:LYS:HE2	1:C:924:GLN:O	2.00	0.62
1:C:1109:HIS:ND1	1:C:1109:HIS:N	2.45	0.62
1:C:1446:ASP:O	1:C:1447:TRP:C	2.42	0.62
1:C:1450:GLU:OE1	1:C:1453:LYS:NZ	2.24	0.62
1:D:423:THR:OG1	1:D:540:THR:HG22	2.00	0.62
1:D:510:PRO:HD2	1:D:970:PRO:HB3	1.81	0.62
1:D:602:THR:O	1:D:640:THR:HG22	1.99	0.62
1:E:453:ALA:O	1:E:761:GLN:HG3	1.98	0.62
1:E:782:ARG:CB	2:L:53:PRO:HD2	2.19	0.62
1:E:897:ASP:OD1	1:E:897:ASP:C	2.42	0.62
1:E:1171:VAL:HG12	1:E:1171:VAL:O	2.00	0.62
1:F:1055:VAL:O	1:F:1056:LEU:C	2.41	0.62
1:F:1105:VAL:HA	2:I:54:PHE:HE1	1.64	0.62
2:G:134:GLN:HB3	2:G:136:TRP:CD1	2.35	0.62
2:G:350:PRO:CD	2:G:374:ALA:HB2	2.29	0.62
2:H:90:PHE:HA	2:H:203:ARG:HH21	1.64	0.62
2:I:345:ILE:H	2:I:345:ILE:CD1	2.09	0.62
2:J:77:LEU:O	2:J:127:ILE:HD11	1.98	0.62
2:K:264:TYR:HE2	2:K:307:THR:HG23	1.61	0.62
2:K:431:MET:HG2	2:K:438:PHE:CE2	2.34	0.62
1:A:47:HIS:HE1	1:A:176:SER:HB3	1.63	0.62
1:A:606:LEU:C	1:A:607:THR:HG22	2.24	0.62
1:A:884:SER:OG	1:A:885:GLY:N	2.33	0.62
1:A:1212:ASP:CG	1:A:1243:GLY:H	2.07	0.62
1:B:171:SER:OG	1:B:177:ILE:HA	2.00	0.62
1:B:351:ARG:HA	1:B:351:ARG:HE	1.64	0.62
1:B:515:ARG:NE	1:B:1367:TYR:CE1	2.68	0.62
1:B:780:ARG:HB3	2:G:51:GLY:C	2.24	0.62
1:B:782:ARG:NH2	2:G:51:GLY:HA2	0.72	0.62
1:B:900:GLY:HA2	1:F:1263:HIS:NE2	2.10	0.62
1:B:1389:GLY:HA2	1:B:1459:PRO:HG2	1.81	0.62
1:C:56:LYS:O	1:C:57:ASP:C	2.42	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:312:ASN:OD1	1:C:312:ASN:N	2.22	0.62
1:C:512:ASP:OD2	1:C:1367:TYR:OH	2.12	0.62
1:C:625:GLY:O	1:C:626:ALA:C	2.42	0.62
1:C:978:GLU:O	1:C:981:ALA:HB3	1.99	0.62
1:C:1395:TYR:CZ	1:C:1397:LEU:HD21	2.34	0.62
1:C:1438:ARG:HB3	2:J:375:THR:HA	1.80	0.62
1:D:518:ARG:NH2	1:D:1382:ASN:HD22	1.98	0.62
1:D:569:ILE:HD13	1:D:569:ILE:N	2.12	0.62
1:D:1121:ASP:OD1	1:D:1121:ASP:C	2.42	0.62
1:D:1230:GLN:N	1:F:877:ARG:CG	2.61	0.62
1:E:57:ASP:O	1:E:60:LYS:N	2.32	0.62
1:E:1220:ARG:HB3	1:E:1221:PRO:HD3	1.81	0.62
1:F:74:GLY:CA	1:F:172:LEU:HD13	2.30	0.62
1:F:295:LYS:HZ3	1:F:299:VAL:HG12	1.64	0.62
1:F:442:MET:HE3	1:F:446:GLU:HB3	1.81	0.62
1:F:1291:ASP:OD1	1:F:1291:ASP:C	2.42	0.62
2:G:99:PRO:HD2	2:G:449:LEU:HD13	1.82	0.62
2:G:302:MET:HE2	2:G:333:GLU:HG3	1.81	0.62
2:G:317:LYS:HE3	2:G:345:ILE:HG21	1.81	0.62
2:H:63:ASN:HA	2:H:87:THR:HG21	1.82	0.62
2:H:350:PRO:CD	2:H:374:ALA:HB2	2.30	0.62
2:H:418:THR:CA	2:H:424:LEU:HD21	2.28	0.62
2:I:69:LEU:O	2:I:72:THR:HG23	2.00	0.62
2:I:317:LYS:HE3	2:I:345:ILE:HG21	1.81	0.62
2:J:120:ILE:O	2:J:123:VAL:HG23	1.98	0.62
2:J:241:GLY:H	2:J:443:ILE:HG23	1.64	0.62
2:J:449:LEU:HB3	2:J:452:TRP:CE3	2.34	0.62
2:L:134:GLN:HB3	2:L:136:TRP:CD1	2.35	0.62
1:A:57:ASP:O	1:A:60:LYS:N	2.32	0.62
1:A:603:HIS:HA	1:A:640:THR:HG22	1.81	0.62
1:B:339:ARG:HG3	1:B:396:GLN:HG3	1.80	0.62
1:B:739:PHE:C	1:B:740:PRO:O	2.43	0.62
1:B:1047:MET:HE2	1:B:1186:ARG:NH2	1.97	0.62
1:B:1105:VAL:HG23	2:G:54:PHE:HE1	1.64	0.62
1:C:606:LEU:C	1:C:607:THR:HG22	2.24	0.62
1:D:464:ILE:CD1	1:D:779:TYR:CZ	2.81	0.62
1:D:658:LEU:HD23	1:D:666:VAL:CG2	2.29	0.62
1:D:1055:VAL:O	1:D:1056:LEU:C	2.41	0.62
1:D:1112:THR:O	1:D:1114:PRO:HD3	1.99	0.62
1:E:24:ALA:CB	1:E:207:TYR:CE2	2.82	0.62
1:E:547:SER:C	1:E:549:VAL:H	2.05	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:908:LYS:HE2	1:E:924:GLN:O	1.99	0.62
1:F:182:MET:CE	1:F:217:PRO:HB3	1.95	0.62
1:F:235:ASN:HD21	1:F:328:ASP:HB3	1.64	0.62
1:F:236:THR:HG22	1:F:328:ASP:H	1.62	0.62
1:F:260:MET:O	1:F:263:LEU:N	2.31	0.62
1:F:482:ASP:OD1	1:F:788:HIS:CD2	2.53	0.62
2:H:43:GLN:CD	2:H:119:THR:HG23	2.25	0.62
2:H:69:LEU:O	2:H:72:THR:HG23	2.00	0.62
2:H:186:LEU:HD11	2:H:200:VAL:CB	2.28	0.62
2:H:197:LYS:HD3	2:H:274:GLY:N	2.15	0.62
2:H:220:VAL:HG23	8:H:484:FAD:C6A	2.27	0.62
2:I:281:GLU:HG3	2:I:284:SER:N	2.11	0.62
2:I:305:VAL:HG11	2:I:342:VAL:HG21	1.82	0.62
2:I:321:ARG:HA	2:I:352:GLY:H	1.62	0.62
2:I:354:THR:HA	2:I:369:LEU:HG	1.80	0.62
2:J:63:ASN:HA	2:J:87:THR:HG21	1.82	0.62
2:J:302:MET:HE2	2:J:333:GLU:HG3	1.81	0.62
2:K:43:GLN:CD	2:K:119:THR:HG23	2.25	0.62
2:K:197:LYS:HD3	2:K:274:GLY:N	2.15	0.62
2:L:197:LYS:HD3	2:L:274:GLY:N	2.15	0.62
2:L:259:VAL:HG21	2:L:264:TYR:CB	2.14	0.62
2:L:351:GLU:HB3	2:L:353:PHE:HB3	1.80	0.62
2:L:434:MET:HB2	2:L:437:VAL:HG12	1.82	0.62
1:A:209:GLN:HG3	1:A:210:ARG:N	2.13	0.62
1:A:746:ILE:C	1:A:747:SER:O	2.35	0.62
1:A:1356:VAL:HG22	1:A:1374:VAL:CG2	2.30	0.62
1:B:569:ILE:HD13	1:B:569:ILE:N	2.12	0.62
1:B:780:ARG:NH1	2:G:50:CYS:CB	2.54	0.62
1:B:918:THR:HG22	1:B:921:TYR:N	2.13	0.62
1:B:976:SER:OG	1:B:978:GLU:HG3	2.00	0.62
1:B:1218:ASP:OD1	1:D:851:LYS:NZ	2.33	0.62
1:C:426:LEU:HD11	1:C:558:MET:HG3	1.79	0.62
1:C:643:ASN:HD22	1:C:665:THR:HG21	1.65	0.62
1:D:513:SER:HB3	1:D:520:MET:HE1	1.79	0.62
1:D:1438:ARG:NE	2:I:376:GLY:C	2.29	0.62
1:E:493:ARG:NH2	1:E:786:ASP:OD1	2.32	0.62
1:E:606:LEU:C	1:E:607:THR:HG22	2.24	0.62
1:E:884:SER:OG	1:E:885:GLY:N	2.33	0.62
1:E:1446:ASP:O	1:E:1447:TRP:C	2.41	0.62
2:G:430:LYS:HD2	2:G:460:ALA:HB2	1.82	0.62
2:I:197:LYS:HB3	2:I:273:LEU:HG	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:258:ILE:HA	2:I:395:VAL:HG23	1.82	0.62
2:I:478:VAL:HG23	2:I:479:ALA:N	2.14	0.62
2:J:100:GLN:C	2:J:105:GLU:HG2	2.25	0.62
2:K:69:LEU:O	2:K:72:THR:HG23	2.00	0.62
2:K:90:PHE:HA	2:K:203:ARG:HH21	1.64	0.62
2:K:100:GLN:C	2:K:105:GLU:HG2	2.25	0.62
2:K:179:TYR:HB2	2:K:181:ARG:HH12	1.64	0.62
2:K:302:MET:HE2	2:K:333:GLU:HG3	1.81	0.62
2:K:353:PHE:CE1	2:K:370:GLY:HA3	2.33	0.62
2:L:317:LYS:CE	2:L:345:ILE:HD12	2.30	0.62
1:A:293:MET:HG2	1:A:410:LEU:HD23	1.82	0.62
1:A:515:ARG:HD3	1:A:1367:TYR:CE1	2.31	0.62
1:A:876:ASN:CB	1:C:1227:GLU:CD	2.73	0.62
1:B:877:ARG:HD3	1:F:1230:GLN:HB2	1.82	0.62
1:C:1171:VAL:O	1:C:1171:VAL:HG12	2.00	0.62
1:C:1417:VAL:HG12	1:C:1419:HIS:H	1.64	0.62
1:D:482:ASP:OD1	1:D:788:HIS:CD2	2.53	0.62
1:D:918:THR:O	1:D:919:ALA:C	2.43	0.62
1:D:1210:THR:HG22	1:D:1211:LEU:N	2.09	0.62
1:D:1227:GLU:OE1	1:F:876:ASN:HB2	2.00	0.62
1:D:1228:LYS:HD3	1:F:901:ASP:OD1	2.00	0.62
1:F:479:MET:HG3	1:F:1104:MET:CE	2.30	0.62
1:F:1009:ILE:O	1:F:1010:ALA:C	2.37	0.62
1:F:1109:HIS:ND1	1:F:1109:HIS:N	2.44	0.62
2:H:241:GLY:H	2:H:443:ILE:HG23	1.64	0.62
2:I:99:PRO:HD2	2:I:449:LEU:HD13	1.82	0.62
2:J:43:GLN:CD	2:J:119:THR:HG23	2.25	0.62
2:K:120:ILE:O	2:K:123:VAL:HG23	1.98	0.62
2:K:241:GLY:H	2:K:443:ILE:HG23	1.64	0.62
2:K:350:PRO:CD	2:K:374:ALA:HB2	2.29	0.62
2:L:99:PRO:HD2	2:L:449:LEU:HD13	1.82	0.62
2:L:153:ILE:O	2:L:239:ALA:HB3	1.99	0.62
2:L:286:ASN:O	2:L:311:GLN:HB2	2.00	0.62
2:L:394:LEU:CD2	2:L:396:ILE:HD12	2.30	0.62
2:L:449:LEU:HB3	2:L:452:TRP:CE3	2.34	0.62
1:A:1171:VAL:HG12	1:A:1171:VAL:O	2.00	0.62
1:A:1438:ARG:HB3	2:L:375:THR:HA	1.80	0.62
1:A:1446:ASP:O	1:A:1447:TRP:C	2.42	0.62
1:C:57:ASP:O	1:C:60:LYS:N	2.32	0.62
1:C:80:ARG:HD3	1:C:125:ARG:O	1.98	0.62
1:C:706:LYS:O	1:C:707:ILE:C	2.43	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1105:VAL:HA	2:H:54:PHE:HE1	1.64	0.62
1:E:403:ASP:OD2	1:E:407:LYS:NZ	2.32	0.62
1:F:518:ARG:NH2	1:F:1382:ASN:HD22	1.98	0.62
1:F:521:SER:OG	1:F:522:LEU:N	2.33	0.62
1:F:1131:THR:CG2	1:F:1133:GLU:OE1	2.42	0.62
2:G:349:ALA:HB3	2:G:374:ALA:HB2	1.82	0.62
2:G:415:LEU:HG	2:G:432:THR:HG21	1.82	0.62
2:H:99:PRO:HD2	2:H:449:LEU:HD13	1.82	0.62
2:H:100:GLN:C	2:H:105:GLU:HG2	2.25	0.62
2:H:120:ILE:O	2:H:123:VAL:HG23	1.98	0.62
2:H:302:MET:HE2	2:H:333:GLU:HG3	1.81	0.62
2:H:318:CYS:O	2:H:345:ILE:HD13	1.99	0.62
2:I:153:ILE:O	2:I:239:ALA:HB3	1.99	0.62
2:I:286:ASN:O	2:I:311:GLN:HB2	2.00	0.62
2:I:394:LEU:CD2	2:I:396:ILE:HD12	2.30	0.62
2:J:267:THR:HG21	2:J:286:ASN:HD21	1.61	0.62
2:J:318:CYS:O	2:J:345:ILE:HD13	1.99	0.62
2:J:418:THR:CA	2:J:424:LEU:HD21	2.28	0.62
2:K:207:LEU:HD12	2:K:207:LEU:C	2.24	0.62
2:K:349:ALA:HB3	2:K:374:ALA:HB2	1.82	0.62
1:A:291:ALA:HB3	1:A:292:PRO:CD	2.27	0.61
1:A:295:LYS:HZ1	1:A:299:VAL:HG12	1.65	0.61
1:A:782:ARG:NE	2:J:53:PRO:CD	2.59	0.61
1:B:235:ASN:HD21	1:B:328:ASP:HB3	1.64	0.61
1:B:439:PRO:HG2	1:B:439:PRO:O	1.99	0.61
1:B:602:THR:O	1:B:640:THR:HG22	1.99	0.61
1:B:876:ASN:HB2	1:F:1227:GLU:OE1	2.00	0.61
1:B:957:ARG:HH11	1:B:965:LEU:HD12	1.65	0.61
1:C:246:ALA:O	1:C:247:HIS:C	2.42	0.61
1:C:876:ASN:CB	1:E:1227:GLU:CD	2.73	0.61
1:C:970:PRO:O	1:C:970:PRO:HG2	2.00	0.61
1:C:1401:LEU:HD11	1:C:1405:ILE:HD12	1.82	0.61
1:D:171:SER:OG	1:D:177:ILE:HA	2.00	0.61
1:D:794:VAL:HG21	1:D:817:VAL:HG23	1.82	0.61
1:E:938:PRO:HG2	1:E:1041:ALA:HB1	1.81	0.61
1:F:446:GLU:O	1:F:447:LEU:C	2.40	0.61
1:F:510:PRO:HD2	1:F:970:PRO:HB3	1.81	0.61
2:G:92:GLU:OE2	2:G:202:ARG:HB3	2.00	0.61
2:H:134:GLN:HB3	2:H:136:TRP:CD1	2.35	0.61
2:H:179:TYR:HB2	2:H:181:ARG:HH12	1.64	0.61
2:H:305:VAL:HG11	2:H:342:VAL:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:317:LYS:CE	2:H:345:ILE:HD12	2.30	0.61
2:J:92:GLU:OE2	2:J:202:ARG:HB3	2.00	0.61
2:J:99:PRO:HD2	2:J:449:LEU:HD13	1.82	0.61
2:J:134:GLN:HB3	2:J:136:TRP:CD1	2.35	0.61
2:J:220:VAL:HG23	8:J:484:FAD:C6A	2.27	0.61
2:J:258:ILE:HA	2:J:395:VAL:HG23	1.82	0.61
2:L:69:LEU:O	2:L:72:THR:HG23	2.00	0.61
2:L:258:ILE:HA	2:L:395:VAL:HG23	1.82	0.61
1:A:24:ALA:CB	1:A:207:TYR:CE2	2.82	0.61
1:B:417:ASP:O	1:B:420:VAL:N	2.33	0.61
1:B:794:VAL:HG21	1:B:817:VAL:HG23	1.82	0.61
1:B:1121:ASP:OD1	1:B:1121:ASP:C	2.42	0.61
1:B:1227:GLU:OE1	1:D:876:ASN:HB2	2.00	0.61
1:B:1438:ARG:NE	2:H:376:GLY:C	2.29	0.61
1:C:423:THR:OG1	1:C:540:THR:HG22	2.00	0.61
1:D:1447:TRP:O	1:D:1451:VAL:HG23	1.98	0.61
1:E:57:ASP:O	1:E:58:HIS:C	2.41	0.61
1:E:782:ARG:CG	2:L:56:GLN:HE21	2.13	0.61
1:E:1062:ARG:O	1:E:1062:ARG:CG	2.43	0.61
1:F:243:TRP:HA	1:F:243:TRP:CE3	2.35	0.61
1:F:1105:VAL:HA	2:I:54:PHE:CE1	2.34	0.61
1:F:1121:ASP:OD1	1:F:1123:LYS:N	2.34	0.61
2:G:236:VAL:HG23	2:G:437:VAL:HA	1.80	0.61
2:G:434:MET:HB2	2:G:437:VAL:HG12	1.82	0.61
2:H:258:ILE:HA	2:H:395:VAL:HG23	1.82	0.61
2:I:230:ARG:NH2	2:I:434:MET:HE2	2.15	0.61
2:I:415:LEU:HG	2:I:432:THR:HG21	1.82	0.61
2:J:197:LYS:HB3	2:J:273:LEU:HG	1.81	0.61
2:J:317:LYS:HE3	2:J:345:ILE:HG21	1.81	0.61
2:J:418:THR:HG1	2:J:420:TRP:CD1	2.18	0.61
2:K:99:PRO:HD2	2:K:449:LEU:HD13	1.82	0.61
2:K:415:LEU:HG	2:K:432:THR:HG21	1.82	0.61
2:L:349:ALA:HB3	2:L:374:ALA:HB2	1.82	0.61
1:A:938:PRO:HG2	1:A:1041:ALA:HB1	1.81	0.61
1:A:1109:HIS:ND1	1:A:1109:HIS:N	2.45	0.61
1:A:1227:GLU:CD	1:E:876:ASN:CB	2.73	0.61
1:A:1447:TRP:CD2	1:A:1451:VAL:HG22	2.33	0.61
1:B:353:MET:HG2	1:B:385:LEU:CD2	2.29	0.61
1:B:901:ASP:OD1	1:F:1228:LYS:HD3	2.00	0.61
1:B:1112:THR:O	1:B:1114:PRO:HD3	1.99	0.61
1:C:320:CYS:O	1:C:323:VAL:N	2.33	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:782:ARG:CG	2:K:56:GLN:HE21	2.13	0.61
1:C:1393:TYR:O	1:C:1394:VAL:CG2	2.44	0.61
1:D:920:GLU:CB	1:D:1256:MET:HE2	2.27	0.61
1:D:976:SER:OG	1:D:978:GLU:HG3	2.00	0.61
1:D:1383:PHE:O	1:D:1384:ALA:HB3	2.00	0.61
1:F:279:THR:HG22	1:F:280:VAL:N	2.16	0.61
1:F:423:THR:OG1	1:F:540:THR:HG22	2.00	0.61
2:G:153:ILE:HG12	2:G:220:VAL:CG1	2.30	0.61
2:H:49:GLN:HE22	2:H:69:LEU:HG	1.65	0.61
2:H:230:ARG:NH2	2:H:434:MET:HE2	2.15	0.61
2:H:327:MET:HB2	2:H:346:TRP:HZ2	1.65	0.61
2:H:349:ALA:HB3	2:H:374:ALA:HB2	1.82	0.61
2:I:63:ASN:HA	2:I:87:THR:HG21	1.82	0.61
2:I:181:ARG:HD3	2:I:187:VAL:HB	1.83	0.61
2:I:349:ALA:HB3	2:I:374:ALA:HB2	1.82	0.61
2:J:49:GLN:HE22	2:J:69:LEU:HG	1.65	0.61
2:J:286:ASN:O	2:J:311:GLN:HB2	2.00	0.61
2:J:305:VAL:HG11	2:J:342:VAL:HG21	1.82	0.61
2:J:394:LEU:CD2	2:J:396:ILE:HD12	2.30	0.61
2:K:63:ASN:HA	2:K:87:THR:HG21	1.82	0.61
2:K:317:LYS:HE3	2:K:345:ILE:HG21	1.81	0.61
2:K:478:VAL:HG23	2:K:479:ALA:N	2.14	0.61
2:L:100:GLN:C	2:L:105:GLU:HG2	2.25	0.61
2:L:230:ARG:NH2	2:L:434:MET:HE2	2.15	0.61
1:A:423:THR:OG1	1:A:540:THR:HG22	2.00	0.61
1:A:513:SER:HB3	1:A:520:MET:HE1	1.81	0.61
1:B:59:VAL:HG22	1:B:105:TYR:CD2	2.33	0.61
1:B:342:VAL:HG11	1:B:390:MET:HE2	1.82	0.61
1:B:521:SER:OG	1:B:522:LEU:N	2.33	0.61
1:C:782:ARG:HG3	2:K:52:VAL:CB	2.18	0.61
1:C:1356:VAL:HG22	1:C:1374:VAL:CG2	2.30	0.61
1:C:1395:TYR:CE2	1:C:1443:ILE:HD13	2.36	0.61
1:D:74:GLY:CA	1:D:172:LEU:HD13	2.30	0.61
1:D:515:ARG:NE	1:D:1367:TYR:CE1	2.68	0.61
1:D:1121:ASP:OD1	1:D:1123:LYS:N	2.33	0.61
1:D:1218:ASP:OD1	1:F:851:LYS:NZ	2.33	0.61
1:D:1401:LEU:N	1:D:1402:PRO:HD2	2.15	0.61
1:E:47:HIS:HE1	1:E:176:SER:HB3	1.63	0.61
1:E:423:THR:OG1	1:E:540:THR:HG22	2.00	0.61
1:E:511:ILE:CG2	1:E:512:ASP:N	2.59	0.61
1:E:1300:LEU:HD12	1:E:1301:SER:H	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:693:MET:HA	1:F:693:MET:CE	2.27	0.61
1:F:957:ARG:HH11	1:F:965:LEU:HD12	1.65	0.61
1:F:1121:ASP:OD1	1:F:1121:ASP:C	2.42	0.61
1:F:1383:PHE:O	1:F:1384:ALA:HB3	2.00	0.61
2:G:132:TRP:HD1	2:G:202:ARG:HB2	1.60	0.61
2:I:92:GLU:OE2	2:I:202:ARG:HB3	2.00	0.61
2:I:96:ARG:HH21	2:I:199:VAL:HG21	1.66	0.61
2:J:69:LEU:O	2:J:72:THR:HG23	2.00	0.61
2:J:181:ARG:HD3	2:J:187:VAL:HB	1.83	0.61
2:K:230:ARG:NH2	2:K:434:MET:HE2	2.15	0.61
2:K:242:VAL:CG1	2:K:403:PRO:HD3	2.21	0.61
2:K:271:VAL:CG2	2:K:285:LEU:HG	2.31	0.61
2:K:383:ILE:HD12	2:K:386:SER:N	2.16	0.61
2:L:153:ILE:HG12	2:L:220:VAL:CG1	2.31	0.61
1:A:643:ASN:HD22	1:A:665:THR:HG21	1.65	0.61
1:A:1395:TYR:CE2	1:A:1443:ILE:HD13	2.36	0.61
1:A:1450:GLU:OE1	1:A:1453:LYS:NZ	2.24	0.61
1:B:450:ARG:O	1:B:452:GLN:N	2.34	0.61
1:B:482:ASP:OD1	1:B:788:HIS:CD2	2.53	0.61
1:B:1290:GLY:O	1:B:1291:ASP:HB3	1.99	0.61
1:C:45:GLY:HA2	1:C:180:LYS:HA	1.81	0.61
1:C:143:GLN:HE21	1:C:143:GLN:CA	2.14	0.61
1:C:780:ARG:CG	2:K:51:GLY:O	2.48	0.61
1:C:884:SER:OG	1:C:885:GLY:N	2.33	0.61
1:C:1212:ASP:CG	1:C:1243:GLY:H	2.07	0.61
1:C:1442:GLU:HG3	2:J:374:ALA:O	2.01	0.61
1:D:806:SER:OG	1:D:809:THR:N	2.31	0.61
1:D:957:ARG:HH11	1:D:965:LEU:HD12	1.65	0.61
1:E:1356:VAL:HG22	1:E:1374:VAL:CG2	2.30	0.61
1:E:1424:LEU:HD23	1:E:1428:ILE:HG13	1.83	0.61
1:F:806:SER:OG	1:F:809:THR:N	2.31	0.61
1:F:908:LYS:HD2	1:F:921:TYR:CE1	2.36	0.61
2:G:230:ARG:NH2	2:G:434:MET:HE2	2.15	0.61
2:G:271:VAL:HG13	2:G:281:GLU:HG2	1.83	0.61
2:H:383:ILE:HD12	2:H:386:SER:N	2.16	0.61
2:I:100:GLN:C	2:I:105:GLU:HG2	2.25	0.61
2:I:207:LEU:HD12	2:I:207:LEU:C	2.24	0.61
2:I:207:LEU:CD1	2:I:212:VAL:HG11	2.31	0.61
2:J:271:VAL:HG13	2:J:281:GLU:HG2	1.83	0.61
2:J:349:ALA:HB3	2:J:374:ALA:HB2	1.82	0.61
2:K:153:ILE:HG12	2:K:220:VAL:CG1	2.30	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:207:LEU:CD1	2:K:212:VAL:HG11	2.31	0.61
2:L:43:GLN:CD	2:L:119:THR:HG23	2.25	0.61
2:L:96:ARG:HH21	2:L:199:VAL:HG21	1.66	0.61
2:L:175:VAL:CG1	2:L:214:TYR:HA	2.23	0.61
2:L:271:VAL:HG13	2:L:281:GLU:HG2	1.83	0.61
1:A:45:GLY:HA2	1:A:180:LYS:HA	1.81	0.61
1:A:1260:GLN:CD	1:E:899:ASN:OD1	2.44	0.61
1:B:353:MET:HE2	1:B:366:GLY:C	2.26	0.61
1:B:851:LYS:NZ	1:F:1218:ASP:OD1	2.33	0.61
1:B:1052:VAL:O	1:B:1053:HIS:C	2.38	0.61
1:B:1121:ASP:OD1	1:B:1123:LYS:N	2.33	0.61
1:C:29:TRP:H	1:C:29:TRP:CD1	2.16	0.61
1:C:351:ARG:HA	1:C:351:ARG:HE	1.66	0.61
1:C:1401:LEU:C	1:C:1401:LEU:CD1	2.73	0.61
1:D:182:MET:CE	1:D:217:PRO:HB3	1.95	0.61
1:D:1159:ASN:C	1:D:1161:VAL:H	2.09	0.61
1:E:603:HIS:HA	1:E:640:THR:HG22	1.81	0.61
1:F:353:MET:HE2	1:F:366:GLY:C	2.26	0.61
1:F:1084:MET:SD	1:F:1168:LEU:HD23	2.41	0.61
2:G:69:LEU:O	2:G:72:THR:HG23	2.00	0.61
2:G:96:ARG:HH21	2:G:199:VAL:HG21	1.66	0.61
2:I:241:GLY:H	2:I:443:ILE:HG23	1.64	0.61
2:I:349:ALA:CB	2:I:350:PRO:HD3	2.31	0.61
2:I:434:MET:HB2	2:I:437:VAL:HG12	1.82	0.61
2:J:197:LYS:HD3	2:J:274:GLY:N	2.15	0.61
2:J:207:LEU:HD12	2:J:207:LEU:C	2.24	0.61
2:J:230:ARG:NH2	2:J:434:MET:HE2	2.15	0.61
2:K:134:GLN:HB3	2:K:136:TRP:CD1	2.35	0.61
2:K:322:ARG:HD3	2:K:349:ALA:C	2.26	0.61
1:A:102:TYR:HE2	1:A:144:PHE:CE1	2.12	0.61
1:A:107:TRP:CD1	1:A:107:TRP:N	2.69	0.61
1:A:511:ILE:HG22	1:A:512:ASP:H	1.61	0.61
1:A:899:ASN:OD1	1:C:1260:GLN:CD	2.44	0.61
1:A:1114:PRO:HG3	2:J:109:VAL:O	2.01	0.61
1:B:102:TYR:CE1	1:B:144:PHE:CE1	2.89	0.61
1:B:447:LEU:HD21	1:B:674:ALA:CA	2.29	0.61
1:B:1230:GLN:HB2	1:D:877:ARG:HD3	1.82	0.61
1:C:746:ILE:O	1:C:747:SER:C	2.43	0.61
1:D:342:VAL:HG11	1:D:390:MET:HE2	1.82	0.61
1:D:739:PHE:C	1:D:740:PRO:O	2.43	0.61
1:D:1291:ASP:OD1	1:D:1291:ASP:C	2.42	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:293:MET:HG2	1:E:410:LEU:HD23	1.82	0.61
1:E:320:CYS:O	1:E:323:VAL:N	2.33	0.61
1:E:555:PHE:CD1	1:E:555:PHE:C	2.78	0.61
1:E:1376:LEU:HB3	1:E:1439:PHE:CE1	2.32	0.61
1:E:1400:SER:O	1:E:1401:LEU:C	2.44	0.61
1:F:351:ARG:HA	1:F:351:ARG:HE	1.64	0.61
1:F:794:VAL:HG21	1:F:817:VAL:HG23	1.82	0.61
2:G:43:GLN:CD	2:G:119:THR:HG23	2.25	0.61
2:G:100:GLN:C	2:G:105:GLU:HG2	2.25	0.61
2:G:394:LEU:CD2	2:G:396:ILE:HD12	2.30	0.61
2:G:478:VAL:HG23	2:G:479:ALA:N	2.14	0.61
2:H:207:LEU:CD1	2:H:212:VAL:HG11	2.31	0.61
2:I:447:ALA:HB1	2:I:452:TRP:HE3	1.65	0.61
2:K:286:ASN:O	2:K:311:GLN:HB2	2.00	0.61
2:K:317:LYS:CE	2:K:345:ILE:HD12	2.30	0.61
2:K:383:ILE:CD1	2:K:386:SER:H	2.12	0.61
2:K:410:PHE:C	2:K:413:PRO:HD2	2.26	0.61
2:L:90:PHE:HA	2:L:203:ARG:HH21	1.64	0.61
2:L:92:GLU:OE2	2:L:202:ARG:HB3	2.00	0.61
2:L:220:VAL:HG22	8:L:484:FAD:C6A	2.29	0.61
2:L:430:LYS:HD2	2:L:460:ALA:HB2	1.82	0.61
2:L:478:VAL:HG23	2:L:479:ALA:N	2.14	0.61
1:A:466:HIS:ND1	1:A:678:ARG:NH1	2.46	0.61
1:A:565:THR:CG2	1:A:602:THR:HB	2.31	0.61
1:A:782:ARG:CB	2:J:56:GLN:NE2	2.38	0.61
1:A:896:PRO:CB	1:C:1226:GLY:C	2.74	0.61
1:A:970:PRO:HG2	1:A:970:PRO:O	2.00	0.61
1:A:1424:LEU:HD23	1:A:1428:ILE:HG13	1.83	0.61
1:B:249:THR:O	1:B:249:THR:HG23	1.98	0.61
1:B:1159:ASN:C	1:B:1161:VAL:H	2.09	0.61
1:C:107:TRP:CD1	1:C:107:TRP:N	2.69	0.61
1:C:312:ASN:HB2	1:C:411:ALA:HB1	1.83	0.61
1:C:572:THR:CG2	1:C:615:ARG:HB3	2.31	0.61
1:D:526:LEU:HD12	1:D:526:LEU:H	1.66	0.61
1:D:691:LYS:HG3	1:D:691:LYS:O	2.00	0.61
1:E:351:ARG:HA	1:E:351:ARG:HE	1.66	0.61
1:E:1076:GLY:CA	1:E:1145:GLU:HG2	2.29	0.61
1:F:782:ARG:N	2:I:52:VAL:CB	2.64	0.61
1:F:1159:ASN:O	1:F:1161:VAL:N	2.32	0.61
2:G:197:LYS:HD3	2:G:274:GLY:N	2.15	0.61
2:G:322:ARG:HD3	2:G:349:ALA:C	2.26	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:410:PHE:C	2:G:413:PRO:HD2	2.26	0.61
2:H:220:VAL:HG22	8:H:484:FAD:C6A	2.29	0.61
2:H:286:ASN:O	2:H:311:GLN:HB2	2.00	0.61
2:H:317:LYS:HE3	2:H:345:ILE:HG21	1.81	0.61
2:H:349:ALA:CB	2:H:350:PRO:HD3	2.31	0.61
2:H:383:ILE:CD1	2:H:386:SER:H	2.12	0.61
2:I:49:GLN:HE22	2:I:69:LEU:HG	1.65	0.61
2:I:134:GLN:HB3	2:I:136:TRP:CD1	2.35	0.61
2:J:317:LYS:CE	2:J:345:ILE:HD12	2.30	0.61
2:J:350:PRO:HG3	2:J:380:PRO:CB	2.31	0.61
2:K:174:HIS:HE1	2:K:215:HIS:CB	2.14	0.61
2:K:258:ILE:HA	2:K:395:VAL:HG23	1.82	0.61
2:L:345:ILE:H	2:L:345:ILE:CD1	2.09	0.61
2:L:349:ALA:CB	2:L:350:PRO:HD3	2.31	0.61
1:A:1226:GLY:C	1:E:896:PRO:CB	2.74	0.61
1:B:908:LYS:HD2	1:B:921:TYR:CE1	2.36	0.61
1:B:1222:LEU:C	1:B:1222:LEU:HD12	2.24	0.61
1:C:355:TYR:CD1	1:C:355:TYR:O	2.54	0.61
1:C:555:PHE:C	1:C:555:PHE:CD1	2.78	0.61
1:C:896:PRO:CB	1:E:1226:GLY:C	2.74	0.61
1:C:899:ASN:OD1	1:E:1260:GLN:CD	2.44	0.61
1:C:1311:THR:CG2	1:C:1312:SER:H	2.14	0.61
1:D:249:THR:HG23	1:D:249:THR:O	1.98	0.61
1:D:781:PHE:O	2:H:52:VAL:HB	1.92	0.61
1:E:531:ASN:C	1:E:533:LEU:N	2.57	0.61
1:E:780:ARG:NH1	2:L:50:CYS:CB	2.56	0.61
1:E:1348:VAL:O	1:E:1348:VAL:HG13	1.99	0.61
1:F:739:PHE:C	1:F:740:PRO:O	2.43	0.61
1:F:976:SER:OG	1:F:978:GLU:HG3	2.00	0.61
2:G:350:PRO:HG3	2:G:380:PRO:CB	2.31	0.61
2:H:153:ILE:HG12	2:H:220:VAL:CG1	2.31	0.61
2:H:174:HIS:HE1	2:H:215:HIS:CB	2.14	0.61
2:H:181:ARG:HD3	2:H:187:VAL:HB	1.83	0.61
2:H:271:VAL:HG13	2:H:281:GLU:HG2	1.83	0.61
2:H:350:PRO:HG3	2:H:380:PRO:CB	2.31	0.61
2:I:90:PHE:HA	2:I:203:ARG:HH21	1.64	0.61
2:I:153:ILE:HG12	2:I:220:VAL:CG1	2.30	0.61
2:I:322:ARG:HD3	2:I:349:ALA:C	2.26	0.61
2:I:415:LEU:HD22	2:I:416:LYS:O	2.01	0.61
2:J:174:HIS:HE1	2:J:215:HIS:CB	2.14	0.61
2:K:47:CYS:HB2	2:K:69:LEU:HD21	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:349:ALA:CB	2:K:350:PRO:HD3	2.31	0.61
2:L:181:ARG:HD3	2:L:187:VAL:HB	1.83	0.61
2:L:383:ILE:CD1	2:L:386:SER:H	2.12	0.61
2:L:416:LYS:HG3	2:L:433:ASN:HD22	1.66	0.61
2:L:447:ALA:HB1	2:L:452:TRP:HE3	1.65	0.61
1:A:57:ASP:O	1:A:58:HIS:C	2.41	0.61
1:A:320:CYS:O	1:A:323:VAL:N	2.33	0.61
1:A:908:LYS:HE2	1:A:924:GLN:O	2.00	0.61
1:A:1090:PHE:CD1	1:A:1090:PHE:N	2.69	0.61
1:B:1169:HIS:ND1	1:B:1169:HIS:N	2.49	0.61
1:B:1401:LEU:N	1:B:1402:PRO:HD2	2.16	0.61
1:C:902:ASN:CA	1:E:1227:GLU:HG2	2.23	0.61
1:D:353:MET:HE2	1:D:366:GLY:C	2.26	0.61
1:D:780:ARG:NH1	2:H:50:CYS:CB	2.54	0.61
1:D:1230:GLN:HB2	1:F:877:ARG:HD3	1.82	0.61
1:F:102:TYR:CE1	1:F:144:PHE:CE1	2.89	0.61
1:F:572:THR:HG22	1:F:573:PHE:N	2.16	0.61
1:F:602:THR:O	1:F:640:THR:HG22	1.99	0.61
2:H:410:PHE:C	2:H:413:PRO:HD2	2.26	0.61
2:I:271:VAL:HG13	2:I:281:GLU:HG2	1.83	0.61
2:J:90:PHE:HA	2:J:203:ARG:HH21	1.64	0.61
2:J:336:HIS:O	2:J:340:GLU:HG2	2.01	0.61
2:J:415:LEU:HD22	2:J:416:LYS:O	2.01	0.61
2:L:63:ASN:HA	2:L:87:THR:HG21	1.82	0.61
2:L:321:ARG:HA	2:L:352:GLY:H	1.63	0.61
2:L:322:ARG:HD3	2:L:349:ALA:C	2.26	0.61
1:A:235:ASN:C	1:A:235:ASN:ND2	2.52	0.60
1:A:355:TYR:CD1	1:A:355:TYR:O	2.54	0.60
1:A:782:ARG:HG3	2:J:52:VAL:CB	2.18	0.60
1:A:1348:VAL:O	1:A:1348:VAL:HG13	1.99	0.60
1:B:1230:GLN:N	1:D:877:ARG:CG	2.61	0.60
1:C:565:THR:CG2	1:C:602:THR:HB	2.31	0.60
1:D:243:TRP:CE3	1:D:243:TRP:HA	2.35	0.60
1:D:417:ASP:O	1:D:420:VAL:N	2.33	0.60
1:D:521:SER:C	1:D:522:LEU:HD23	2.26	0.60
1:D:1045:TRP:O	1:D:1046:GLU:C	2.44	0.60
1:E:246:ALA:O	1:E:247:HIS:C	2.42	0.60
1:E:249:THR:CG2	1:E:250:ARG:HG2	2.31	0.60
1:E:295:LYS:HD3	1:E:295:LYS:O	2.00	0.60
1:E:732:ARG:H	1:E:747:SER:HB3	1.65	0.60
1:F:1131:THR:HG21	1:F:1133:GLU:HB2	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1169:HIS:ND1	1:F:1169:HIS:N	2.49	0.60
2:G:258:ILE:HA	2:G:395:VAL:HG23	1.82	0.60
2:G:471:LYS:HA	2:G:471:LYS:CE	2.23	0.60
2:H:271:VAL:CG2	2:H:285:LEU:HG	2.31	0.60
2:I:175:VAL:CG1	2:I:214:TYR:HA	2.23	0.60
2:I:197:LYS:HD3	2:I:274:GLY:N	2.15	0.60
2:J:153:ILE:HG12	2:J:220:VAL:CG1	2.30	0.60
2:J:220:VAL:HG22	8:J:484:FAD:C6A	2.29	0.60
2:J:383:ILE:HD12	2:J:386:SER:N	2.16	0.60
2:K:46:ARG:CZ	2:K:118:VAL:HA	2.32	0.60
2:K:96:ARG:HH21	2:K:199:VAL:HG21	1.66	0.60
2:K:336:HIS:O	2:K:340:GLU:HG2	2.01	0.60
2:L:305:VAL:HG11	2:L:342:VAL:HG21	1.82	0.60
1:A:364:ILE:CD1	1:A:374:ILE:HD11	2.30	0.60
1:A:555:PHE:C	1:A:555:PHE:CD1	2.78	0.60
1:A:780:ARG:CG	2:J:51:GLY:O	2.48	0.60
1:A:842:GLU:HB3	1:A:1156:ARG:HD3	1.84	0.60
1:B:312:ASN:HB2	1:B:411:ALA:HB1	1.83	0.60
1:B:693:MET:O	1:B:694:ALA:C	2.45	0.60
1:B:989:GLN:O	1:B:1245:ARG:HD3	2.01	0.60
1:B:1210:THR:HG22	1:B:1211:LEU:N	2.09	0.60
1:C:531:ASN:HB3	1:C:534:ASP:HB2	1.83	0.60
1:C:781:PHE:CE2	2:K:57:VAL:CG2	2.82	0.60
1:D:908:LYS:HD2	1:D:921:TYR:CE1	2.36	0.60
1:E:140:SER:O	1:E:141:ASP:C	2.44	0.60
1:E:531:ASN:HB3	1:E:534:ASP:HB2	1.83	0.60
1:E:677:GLU:C	1:E:677:GLU:OE1	2.44	0.60
1:E:1212:ASP:OD2	1:E:1243:GLY:C	2.44	0.60
1:E:1311:THR:CG2	1:E:1312:SER:H	2.14	0.60
1:E:1442:GLU:HG3	2:K:374:ALA:O	2.01	0.60
1:F:171:SER:OG	1:F:177:ILE:HA	2.00	0.60
1:F:515:ARG:NE	1:F:1367:TYR:CE1	2.68	0.60
2:G:317:LYS:CE	2:G:345:ILE:HD12	2.30	0.60
2:G:383:ILE:HD12	2:G:386:SER:N	2.16	0.60
2:I:43:GLN:CD	2:I:119:THR:HG23	2.25	0.60
2:I:186:LEU:HD11	2:I:200:VAL:CB	2.28	0.60
2:J:439:ALA:HB1	2:J:443:ILE:CD1	2.32	0.60
2:K:271:VAL:HG13	2:K:281:GLU:HG2	1.83	0.60
2:K:350:PRO:HG3	2:K:380:PRO:CB	2.31	0.60
2:L:350:PRO:HG3	2:L:380:PRO:CB	2.31	0.60
2:L:477:ALA:C	2:L:478:VAL:HG22	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:18:VAL:O	1:A:19:GLU:C	2.42	0.60
1:A:295:LYS:HD3	1:A:295:LYS:O	2.00	0.60
1:A:1311:THR:CG2	1:A:1312:SER:H	2.14	0.60
1:A:1401:LEU:C	1:A:1401:LEU:CD1	2.73	0.60
1:B:52:GLN:HE22	1:B:71:LEU:N	1.96	0.60
1:B:521:SER:C	1:B:522:LEU:HD23	2.26	0.60
1:B:918:THR:O	1:B:919:ALA:C	2.42	0.60
1:B:1055:VAL:O	1:B:1056:LEU:C	2.41	0.60
1:D:450:ARG:O	1:D:452:GLN:N	2.34	0.60
1:D:782:ARG:N	2:H:52:VAL:CB	2.64	0.60
1:D:1084:MET:SD	1:D:1168:LEU:HD23	2.41	0.60
1:E:295:LYS:HE2	1:E:299:VAL:CG1	2.31	0.60
1:E:603:HIS:CA	1:E:640:THR:HG22	2.32	0.60
1:E:823:MET:C	1:E:824:GLN:HE21	2.10	0.60
1:E:970:PRO:HG2	1:E:970:PRO:O	2.00	0.60
1:E:1090:PHE:CD1	1:E:1090:PHE:N	2.69	0.60
1:E:1114:PRO:HG3	2:L:109:VAL:O	2.01	0.60
1:F:417:ASP:O	1:F:420:VAL:N	2.33	0.60
1:F:450:ARG:O	1:F:452:GLN:N	2.34	0.60
2:G:181:ARG:HD3	2:G:187:VAL:HB	1.83	0.60
2:G:197:LYS:HD3	2:G:274:GLY:H	1.67	0.60
2:G:207:LEU:HD12	2:G:207:LEU:C	2.24	0.60
2:G:383:ILE:CD1	2:G:386:SER:H	2.12	0.60
2:H:96:ARG:HH21	2:H:199:VAL:HG21	1.66	0.60
2:H:336:HIS:O	2:H:340:GLU:HG2	2.01	0.60
2:H:434:MET:HB2	2:H:437:VAL:HG12	1.82	0.60
2:I:46:ARG:CZ	2:I:118:VAL:HA	2.32	0.60
2:I:361:GLY:O	2:I:362:VAL:HB	2.01	0.60
2:K:181:ARG:HD3	2:K:187:VAL:HB	1.83	0.60
2:K:197:LYS:HD3	2:K:274:GLY:H	1.67	0.60
2:L:410:PHE:C	2:L:413:PRO:HD2	2.26	0.60
1:A:260:MET:O	1:A:263:LEU:HB2	2.02	0.60
1:A:351:ARG:HA	1:A:351:ARG:HE	1.65	0.60
1:A:493:ARG:NH2	1:A:786:ASP:OD1	2.32	0.60
1:A:547:SER:C	1:A:549:VAL:N	2.58	0.60
1:A:731:SER:O	1:A:735:VAL:HG23	2.02	0.60
1:B:243:TRP:HA	1:B:243:TRP:CE3	2.35	0.60
1:B:397:SER:HB2	1:B:399:LYS:HG3	1.84	0.60
1:B:464:ILE:CD1	1:B:779:TYR:CZ	2.81	0.60
1:B:518:ARG:NH2	1:B:1382:ASN:HD22	1.98	0.60
1:B:930:ILE:HD13	1:B:983:LEU:HD13	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:603:HIS:CA	1:C:640:THR:HG22	2.32	0.60
1:C:743:VAL:CG1	1:C:745:ARG:HG3	2.32	0.60
1:C:1114:PRO:HG3	2:K:109:VAL:O	2.01	0.60
1:D:102:TYR:CE1	1:D:144:PHE:CE1	2.89	0.60
1:D:225:PHE:HB3	1:D:278:ASP:OD2	2.02	0.60
1:D:312:ASN:HB2	1:D:411:ALA:HB1	1.83	0.60
1:D:594:GLU:OE1	1:D:598:ARG:NH2	2.34	0.60
1:D:782:ARG:N	2:H:52:VAL:HB	2.07	0.60
1:D:1222:LEU:H	1:D:1229:MET:HE2	1.67	0.60
1:E:45:GLY:HA2	1:E:180:LYS:HA	1.81	0.60
1:E:235:ASN:C	1:E:235:ASN:ND2	2.52	0.60
1:E:260:MET:O	1:E:263:LEU:HB2	2.02	0.60
1:E:706:LYS:O	1:E:707:ILE:C	2.43	0.60
1:E:761:GLN:O	1:E:764:THR:HB	2.02	0.60
1:E:781:PHE:CE2	2:L:57:VAL:HG11	2.37	0.60
1:E:1395:TYR:CE2	1:E:1443:ILE:HD13	2.36	0.60
1:F:670:LEU:HD22	1:F:670:LEU:O	2.01	0.60
2:G:90:PHE:HA	2:G:203:ARG:HH21	1.64	0.60
2:G:167:ARG:HH21	2:G:170:GLY:HA2	1.67	0.60
2:G:207:LEU:CD1	2:G:212:VAL:HG11	2.31	0.60
2:I:271:VAL:CG2	2:I:285:LEU:HG	2.31	0.60
2:I:317:LYS:CE	2:I:345:ILE:HD12	2.30	0.60
2:I:336:HIS:O	2:I:340:GLU:HG2	2.01	0.60
2:J:46:ARG:CZ	2:J:118:VAL:HA	2.32	0.60
2:J:96:ARG:HH21	2:J:199:VAL:HG21	1.66	0.60
2:J:291:HIS:HE1	2:J:317:LYS:HB3	1.67	0.60
2:J:415:LEU:HG	2:J:432:THR:HG21	1.82	0.60
2:K:394:LEU:CD2	2:K:396:ILE:HD12	2.30	0.60
2:L:174:HIS:HE1	2:L:215:HIS:CB	2.14	0.60
1:A:572:THR:CG2	1:A:615:ARG:HB3	2.31	0.60
1:A:706:LYS:O	1:A:707:ILE:C	2.43	0.60
1:A:902:ASN:ND2	1:C:1227:GLU:CG	2.62	0.60
1:A:982:GLN:NE2	1:A:1240:ARG:HD2	2.16	0.60
1:A:1212:ASP:OD2	1:A:1243:GLY:C	2.44	0.60
1:A:1432:VAL:HG22	1:A:1440:ALA:HB3	1.83	0.60
1:B:1222:LEU:H	1:B:1229:MET:HE2	1.66	0.60
1:C:364:ILE:CD1	1:C:374:ILE:HD11	2.30	0.60
1:C:377:THR:HG22	1:C:378:GLN:HG3	1.84	0.60
1:C:1090:PHE:N	1:C:1090:PHE:CD1	2.69	0.60
1:D:120:LYS:HE2	1:D:120:LYS:CA	2.31	0.60
1:D:183:PHE:CE1	1:D:188:LEU:HA	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:479:MET:HG3	1:D:1104:MET:CE	2.30	0.60
1:D:857:GLY:O	4:D:2474:FMN:C4A	2.50	0.60
1:D:1131:THR:CG2	1:D:1133:GLU:OE1	2.42	0.60
1:E:355:TYR:CD1	1:E:355:TYR:O	2.54	0.60
1:E:780:ARG:CG	2:L:51:GLY:O	2.48	0.60
1:E:1170:GLN:OE1	1:E:1183:LEU:HB2	2.01	0.60
1:E:1212:ASP:CG	1:E:1243:GLY:H	2.08	0.60
1:F:24:ALA:O	1:F:26:LYS:N	2.34	0.60
2:G:416:LYS:HG3	2:G:433:ASN:HD22	1.66	0.60
2:H:197:LYS:HD3	2:H:274:GLY:H	1.67	0.60
2:H:394:LEU:CD2	2:H:396:ILE:HD12	2.30	0.60
2:I:47:CYS:HB2	2:I:69:LEU:HD21	1.83	0.60
2:I:416:LYS:HG3	2:I:433:ASN:HD22	1.66	0.60
2:J:267:THR:O	2:J:271:VAL:HG22	2.01	0.60
2:L:207:LEU:CD1	2:L:212:VAL:HG11	2.31	0.60
2:L:283:GLY:O	2:L:284:SER:HB3	2.01	0.60
1:A:246:ALA:O	1:A:247:HIS:C	2.42	0.60
1:A:316:LEU:O	1:A:319:TYR:HB3	2.02	0.60
1:A:377:THR:HG22	1:A:378:GLN:HG3	1.84	0.60
1:A:575:VAL:HG13	1:A:759:LEU:HD22	1.84	0.60
1:A:731:SER:N	1:A:748:GLY:H	2.00	0.60
1:B:279:THR:HG22	1:B:280:VAL:N	2.16	0.60
1:B:570:ASP:O	1:B:588:ARG:NH2	2.34	0.60
1:B:1105:VAL:HA	2:G:54:PHE:HE1	1.64	0.60
1:C:652:THR:HG21	1:C:703:GLY:HA3	1.84	0.60
1:C:731:SER:O	1:C:735:VAL:HG23	2.02	0.60
1:C:950:THR:HG23	1:C:951:GLU:H	1.66	0.60
1:C:1424:LEU:HD23	1:C:1428:ILE:HG13	1.83	0.60
1:D:782:ARG:NE	2:H:53:PRO:HD3	2.17	0.60
1:D:913:GLY:CA	1:D:1349:ARG:HD3	2.27	0.60
1:D:918:THR:HG22	1:D:921:TYR:N	2.13	0.60
1:D:1093:GLY:O	1:D:1094:THR:C	2.45	0.60
1:E:107:TRP:CD1	1:E:107:TRP:N	2.69	0.60
1:E:193:PRO:O	1:E:194:ASP:C	2.43	0.60
1:E:377:THR:HG22	1:E:378:GLN:HG3	1.84	0.60
1:E:731:SER:N	1:E:748:GLY:H	2.00	0.60
1:E:842:GLU:HB3	1:E:1156:ARG:HD3	1.84	0.60
1:E:1401:LEU:C	1:E:1401:LEU:CD1	2.73	0.60
1:E:1438:ARG:NE	2:K:376:GLY:O	2.35	0.60
1:F:521:SER:C	1:F:522:LEU:HD23	2.26	0.60
1:F:920:GLU:CB	1:F:1256:MET:HE2	2.27	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:174:HIS:HE1	2:G:215:HIS:CB	2.14	0.60
2:G:295:LEU:CD2	2:G:319:LEU:HD13	2.32	0.60
2:G:336:HIS:O	2:G:340:GLU:HG2	2.01	0.60
2:H:195:LEU:C	2:H:195:LEU:HD12	2.27	0.60
2:H:415:LEU:HD22	2:H:416:LYS:O	2.01	0.60
2:I:256:GLY:O	2:I:257:ASN:HB2	2.01	0.60
2:I:291:HIS:HE1	2:I:317:LYS:HB3	1.67	0.60
2:I:410:PHE:C	2:I:413:PRO:HD2	2.26	0.60
2:I:430:LYS:HD2	2:I:460:ALA:HB2	1.82	0.60
2:J:47:CYS:HB2	2:J:69:LEU:HD21	1.83	0.60
2:J:197:LYS:HD3	2:J:274:GLY:H	1.67	0.60
2:J:322:ARG:HD3	2:J:349:ALA:C	2.26	0.60
2:J:477:ALA:C	2:J:478:VAL:HG22	2.27	0.60
2:K:49:GLN:HE22	2:K:69:LEU:HG	1.65	0.60
2:L:47:CYS:HB2	2:L:69:LEU:HD21	1.83	0.60
2:L:415:LEU:HD22	2:L:416:LYS:O	2.01	0.60
1:A:312:ASN:HB2	1:A:411:ALA:HB1	1.83	0.60
1:A:843:VAL:CG1	1:A:844:GLU:N	2.59	0.60
1:A:1401:LEU:HD11	1:A:1405:ILE:HD12	1.82	0.60
1:B:324:MET:HE2	1:B:327:TRP:HE1	1.67	0.60
1:B:572:THR:HG23	1:B:573:PHE:N	2.16	0.60
1:C:295:LYS:HE2	1:C:299:VAL:CG1	2.31	0.60
1:C:731:SER:N	1:C:748:GLY:H	2.00	0.60
1:D:1131:THR:HG21	1:D:1133:GLU:HB2	1.83	0.60
1:E:316:LEU:O	1:E:319:TYR:HB3	2.02	0.60
1:E:565:THR:CG2	1:E:602:THR:HB	2.31	0.60
1:F:780:ARG:NH1	2:I:50:CYS:CB	2.54	0.60
1:F:930:ILE:HD13	1:F:983:LEU:HD13	1.83	0.60
1:F:1401:LEU:N	1:F:1402:PRO:HD2	2.16	0.60
2:H:418:THR:HG1	2:H:420:TRP:CD1	2.20	0.60
2:I:439:ALA:HB1	2:I:443:ILE:CD1	2.32	0.60
2:J:327:MET:HB2	2:J:346:TRP:HZ2	1.65	0.60
2:L:207:LEU:HD12	2:L:207:LEU:C	2.24	0.60
1:A:1227:GLU:HG2	1:E:902:ASN:CA	2.23	0.60
1:A:1400:SER:O	1:A:1401:LEU:C	2.44	0.60
1:B:120:LYS:HE2	1:B:120:LYS:CA	2.31	0.60
1:B:481:ASP:OD1	1:B:481:ASP:C	2.44	0.60
1:C:260:MET:O	1:C:263:LEU:HB2	2.02	0.60
1:C:876:ASN:HB3	1:E:1227:GLU:OE2	2.02	0.60
1:C:1315:LEU:HB3	1:C:1320:ASN:HD22	1.67	0.60
1:C:1348:VAL:O	1:C:1348:VAL:HG13	1.99	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:24:ALA:O	1:D:26:LYS:N	2.34	0.60
1:D:390:MET:HG3	1:D:406:LEU:HD23	1.84	0.60
1:D:447:LEU:HD21	1:D:674:ALA:CA	2.29	0.60
1:E:142:GLU:CD	1:E:142:GLU:N	2.58	0.60
1:E:149:TYR:O	1:E:150:ILE:C	2.42	0.60
1:E:515:ARG:NE	1:E:1367:TYR:HE1	1.99	0.60
1:E:1026:ASN:CG	1:E:1027:SER:N	2.60	0.60
1:E:1401:LEU:HD11	1:E:1405:ILE:HD12	1.82	0.60
1:F:244:MET:HE2	1:F:244:MET:HA	1.84	0.60
1:F:266:VAL:O	1:F:279:THR:HG21	2.01	0.60
2:G:203:ARG:HB3	2:G:203:ARG:NH1	2.17	0.60
2:H:267:THR:O	2:H:271:VAL:HG22	2.01	0.60
2:I:267:THR:O	2:I:271:VAL:HG22	2.01	0.60
2:I:477:ALA:C	2:I:478:VAL:HG22	2.27	0.60
2:J:195:LEU:C	2:J:195:LEU:HD12	2.27	0.60
2:J:202:ARG:HH21	2:J:206:LEU:HD11	1.67	0.60
2:J:226:LEU:HD21	2:J:434:MET:SD	2.42	0.60
2:J:271:VAL:CG2	2:J:285:LEU:HG	2.31	0.60
2:K:416:LYS:HG3	2:K:433:ASN:HD22	1.66	0.60
2:L:46:ARG:CZ	2:L:118:VAL:HA	2.32	0.60
2:L:167:ARG:HH21	2:L:170:GLY:HA2	1.67	0.60
2:L:291:HIS:HE1	2:L:317:LYS:HB3	1.67	0.60
1:A:295:LYS:HE2	1:A:299:VAL:CG1	2.31	0.60
1:A:652:THR:HG21	1:A:703:GLY:HA3	1.84	0.60
1:A:677:GLU:C	1:A:677:GLU:OE1	2.44	0.60
1:B:322:SER:O	1:B:528:ASN:ND2	2.35	0.60
1:B:1084:MET:SD	1:B:1168:LEU:HD23	2.41	0.60
1:B:1131:THR:HG21	1:B:1133:GLU:HB2	1.83	0.60
1:C:1438:ARG:NE	2:J:376:GLY:O	2.35	0.60
1:D:312:ASN:OD1	1:D:312:ASN:N	2.25	0.60
1:D:322:SER:O	1:D:528:ASN:ND2	2.35	0.60
1:D:508:ASN:HB2	1:D:509:PRO:HD2	1.84	0.60
1:E:253:HIS:CE1	1:E:254:PRO:CG	2.85	0.60
1:E:296:MET:O	1:E:297:MET:C	2.40	0.60
1:E:572:THR:CG2	1:E:615:ARG:HB3	2.31	0.60
1:E:575:VAL:HG13	1:E:759:LEU:HD22	1.84	0.60
1:F:397:SER:HB2	1:F:399:LYS:HG3	1.84	0.60
1:F:1052:VAL:O	1:F:1053:HIS:C	2.38	0.60
1:F:1159:ASN:C	1:F:1161:VAL:H	2.09	0.60
2:G:286:ASN:O	2:G:311:GLN:HB2	2.00	0.60
2:H:68:TRP:CE3	2:H:84:SER:HB3	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:257:ASN:HD22	2:H:364:ALA:HB3	1.67	0.60
2:H:439:ALA:HB1	2:H:443:ILE:CD1	2.31	0.60
2:I:68:TRP:CE3	2:I:84:SER:HB3	2.37	0.60
2:J:207:LEU:O	2:J:210:ALA:HB3	2.02	0.60
2:J:207:LEU:CD1	2:J:212:VAL:HG11	2.31	0.60
2:K:295:LEU:CD2	2:K:319:LEU:HD13	2.32	0.60
2:K:415:LEU:HD22	2:K:416:LYS:O	2.01	0.60
2:K:434:MET:HB2	2:K:437:VAL:HG12	1.82	0.60
2:L:256:GLY:O	2:L:257:ASN:HB2	2.01	0.60
2:L:267:THR:O	2:L:271:VAL:HG22	2.01	0.60
1:A:296:MET:O	1:A:297:MET:C	2.40	0.60
1:A:479:MET:HG3	1:A:1104:MET:SD	2.42	0.60
1:A:531:ASN:HB3	1:A:534:ASP:HB2	1.83	0.60
1:A:732:ARG:NH1	1:B:94:GLU:OE2	2.28	0.60
1:A:743:VAL:CG1	1:A:745:ARG:HG3	2.31	0.60
1:A:781:PHE:CE2	2:J:57:VAL:HG11	2.37	0.60
1:A:897:ASP:OD1	1:A:897:ASP:C	2.42	0.60
1:B:508:ASN:HB2	1:B:509:PRO:HD2	1.84	0.60
1:B:1383:PHE:O	1:B:1384:ALA:HB3	2.00	0.60
1:B:1432:VAL:O	1:B:1433:THR:C	2.45	0.60
1:C:140:SER:O	1:C:141:ASP:C	2.44	0.60
1:C:1076:GLY:CA	1:C:1145:GLU:HG2	2.29	0.60
1:C:1131:THR:HB	1:C:1134:LYS:CG	2.32	0.60
1:D:447:LEU:CD1	1:D:451:GLN:CG	2.80	0.60
1:D:521:SER:OG	1:D:522:LEU:N	2.33	0.60
1:D:930:ILE:HD13	1:D:983:LEU:HD13	1.84	0.60
1:E:369:THR:HG23	1:E:370:GLY:N	2.17	0.60
1:E:1008:THR:HG22	1:E:1009:ILE:H	1.64	0.60
1:E:1374:VAL:O	1:E:1375:ILE:HG12	2.01	0.60
1:F:183:PHE:CE1	1:F:188:LEU:HA	2.37	0.60
1:F:1105:VAL:HG23	2:I:54:PHE:HE1	1.64	0.60
1:F:1222:LEU:HD12	1:F:1222:LEU:C	2.24	0.60
2:H:202:ARG:HH21	2:H:206:LEU:HD11	1.67	0.60
2:H:469:LYS:HZ3	2:H:476:VAL:HA	1.67	0.60
2:H:477:ALA:C	2:H:478:VAL:HG22	2.27	0.60
2:I:202:ARG:HH21	2:I:206:LEU:HD11	1.67	0.60
2:I:207:LEU:O	2:I:210:ALA:HB3	2.02	0.60
2:I:350:PRO:HG3	2:I:380:PRO:CB	2.31	0.60
2:J:166:LEU:CD2	2:J:461:ALA:HB1	2.31	0.60
2:J:349:ALA:CB	2:J:350:PRO:HD3	2.31	0.60
2:J:434:MET:HB2	2:J:437:VAL:HG12	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:257:ASN:HD22	2:K:364:ALA:HB3	1.67	0.60
2:L:203:ARG:HB3	2:L:203:ARG:NH1	2.17	0.60
1:A:876:ASN:HB3	1:C:1227:GLU:OE2	2.02	0.59
1:A:1412:PHE:N	1:A:1412:PHE:CD1	2.70	0.59
1:B:149:TYR:CD2	1:B:286:ARG:HG3	2.37	0.59
1:B:670:LEU:HD22	1:B:670:LEU:O	2.01	0.59
1:B:1263:HIS:NE2	1:D:900:GLY:HA2	2.10	0.59
1:C:607:THR:HB	1:C:645:ARG:HB2	1.84	0.59
1:C:732:ARG:NH1	1:D:94:GLU:OE2	2.28	0.59
1:C:1170:GLN:OE1	1:C:1183:LEU:HB2	2.01	0.59
1:C:1212:ASP:OD2	1:C:1243:GLY:C	2.44	0.59
1:D:279:THR:HG22	1:D:280:VAL:N	2.16	0.59
1:D:1104:MET:C	2:H:54:PHE:HZ	2.03	0.59
1:D:1336:LEU:HB3	1:D:1355:VAL:HG13	1.84	0.59
1:E:244:MET:O	1:E:245:LYS:C	2.44	0.59
1:E:364:ILE:CD1	1:E:374:ILE:HD11	2.30	0.59
1:E:731:SER:O	1:E:735:VAL:HG23	2.02	0.59
1:E:743:VAL:CG1	1:E:745:ARG:HG3	2.32	0.59
1:E:846:ILE:O	1:E:847:THR:C	2.45	0.59
1:E:1375:ILE:HG22	1:E:1375:ILE:O	2.02	0.59
1:E:1438:ARG:O	1:E:1439:PHE:C	2.45	0.59
1:F:120:LYS:HE2	1:F:120:LYS:CA	2.31	0.59
1:F:691:LYS:O	1:F:691:LYS:HG3	2.00	0.59
2:G:47:CYS:HB2	2:G:69:LEU:HD21	1.83	0.59
2:G:100:GLN:HA	2:G:100:GLN:NE2	2.17	0.59
2:H:47:CYS:HB2	2:H:69:LEU:HD21	1.83	0.59
2:H:291:HIS:HE1	2:H:317:LYS:HB3	1.67	0.59
2:I:167:ARG:HH21	2:I:170:GLY:HA2	1.67	0.59
2:J:190:ILE:HG23	2:J:191:PRO:HD2	1.84	0.59
2:J:383:ILE:CD1	2:J:386:SER:H	2.12	0.59
2:K:195:LEU:C	2:K:195:LEU:HD12	2.27	0.59
2:K:226:LEU:HD21	2:K:434:MET:SD	2.42	0.59
2:K:267:THR:O	2:K:271:VAL:HG22	2.01	0.59
2:L:226:LEU:HD21	2:L:434:MET:SD	2.42	0.59
1:A:75:GLN:C	1:A:76:VAL:HG12	2.27	0.59
1:A:531:ASN:C	1:A:533:LEU:N	2.57	0.59
1:A:932:VAL:O	1:A:933:ALA:CB	2.45	0.59
1:A:1227:GLU:OE2	1:E:876:ASN:HB3	2.02	0.59
1:A:1438:ARG:O	1:A:1439:PHE:C	2.45	0.59
1:B:24:ALA:O	1:B:26:LYS:N	2.34	0.59
1:B:806:SER:OG	1:B:809:THR:N	2.31	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1132:PRO:O	1:B:1136:VAL:HG23	2.02	0.59
1:C:102:TYR:HE2	1:C:144:PHE:CE1	2.13	0.59
1:C:295:LYS:HD3	1:C:295:LYS:O	2.00	0.59
1:C:826:ARG:NH1	1:C:826:ARG:CG	2.58	0.59
1:D:1274:GLN:NE2	1:D:1293:ASN:HB3	2.17	0.59
1:E:139:VAL:CG1	1:E:143:GLN:HB2	2.32	0.59
1:E:312:ASN:HB2	1:E:411:ALA:HB1	1.83	0.59
1:E:950:THR:HG23	1:E:951:GLU:H	1.66	0.59
1:F:225:PHE:HB3	1:F:278:ASP:OD2	2.02	0.59
1:F:720:ARG:C	1:F:722:GLY:H	2.11	0.59
1:F:938:PRO:O	1:F:940:GLU:N	2.36	0.59
2:G:46:ARG:CZ	2:G:118:VAL:HA	2.32	0.59
2:G:267:THR:O	2:G:271:VAL:HG22	2.01	0.59
2:G:477:ALA:C	2:G:478:VAL:HG22	2.27	0.59
2:H:32:TYR:HE2	2:H:194:LYS:HB3	1.67	0.59
2:H:322:ARG:HD3	2:H:349:ALA:C	2.26	0.59
2:I:195:LEU:C	2:I:195:LEU:HD12	2.27	0.59
2:I:449:LEU:HD23	2:I:452:TRP:CD2	2.37	0.59
2:K:68:TRP:CE3	2:K:84:SER:HB3	2.37	0.59
2:K:297:GLY:HA2	2:K:320:TYR:CE1	2.38	0.59
2:L:197:LYS:HD3	2:L:274:GLY:H	1.67	0.59
2:L:415:LEU:HG	2:L:432:THR:HG21	1.82	0.59
2:L:471:LYS:HA	2:L:471:LYS:CE	2.23	0.59
1:A:208:HIS:ND1	1:A:223:GLN:OE1	2.35	0.59
1:A:249:THR:CG2	1:A:250:ARG:HG2	2.31	0.59
1:A:369:THR:HG23	1:A:370:GLY:N	2.17	0.59
1:A:556:ARG:O	1:A:557:ALA:C	2.44	0.59
1:A:1026:ASN:CG	1:A:1027:SER:N	2.60	0.59
1:A:1442:GLU:HG3	2:L:374:ALA:O	2.01	0.59
1:B:183:PHE:CE1	1:B:188:LEU:HA	2.37	0.59
1:B:691:LYS:O	1:B:691:LYS:HG3	2.00	0.59
1:B:1171:VAL:HG12	1:B:1171:VAL:O	2.02	0.59
1:C:75:GLN:C	1:C:76:VAL:HG12	2.27	0.59
1:C:359:THR:HG23	1:C:378:GLN:CA	2.33	0.59
1:C:1026:ASN:CG	1:C:1027:SER:N	2.59	0.59
1:C:1374:VAL:O	1:C:1375:ILE:HG12	2.01	0.59
1:D:559:ARG:NH1	1:D:568:GLU:OE2	2.35	0.59
1:E:56:LYS:O	1:E:57:ASP:C	2.42	0.59
1:E:466:HIS:CE1	1:E:684:PHE:CE1	2.91	0.59
1:F:149:TYR:CD2	1:F:286:ARG:HG3	2.37	0.59
1:F:857:GLY:O	4:F:2474:FMN:C4A	2.50	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1171:VAL:HG12	1:F:1171:VAL:O	2.02	0.59
1:F:1396:ASP:OD1	1:F:1396:ASP:C	2.45	0.59
2:G:226:LEU:HD21	2:G:434:MET:SD	2.42	0.59
2:G:297:GLY:HA2	2:G:320:TYR:CE1	2.37	0.59
2:G:415:LEU:HD22	2:G:416:LYS:O	2.01	0.59
2:H:207:LEU:O	2:H:210:ALA:HB3	2.02	0.59
2:H:416:LYS:HG3	2:H:433:ASN:HD22	1.66	0.59
2:I:77:LEU:HD21	2:I:126:TYR:CE2	2.38	0.59
2:I:174:HIS:HE1	2:I:215:HIS:CB	2.14	0.59
2:I:383:ILE:HD12	2:I:386:SER:N	2.16	0.59
2:J:416:LYS:HG3	2:J:433:ASN:HD22	1.66	0.59
2:J:430:LYS:CE	2:J:440:ALA:HB2	2.32	0.59
2:K:77:LEU:HD21	2:K:126:TYR:CE2	2.38	0.59
2:K:203:ARG:HB3	2:K:203:ARG:NH1	2.17	0.59
2:K:238:VAL:HG23	2:K:439:ALA:HA	1.85	0.59
2:K:256:GLY:O	2:K:257:ASN:HB2	2.01	0.59
2:K:449:LEU:HD23	2:K:452:TRP:CD2	2.37	0.59
2:L:49:GLN:HE22	2:L:69:LEU:HG	1.65	0.59
2:L:166:LEU:CD2	2:L:461:ALA:HB1	2.31	0.59
2:L:271:VAL:CG2	2:L:285:LEU:HG	2.31	0.59
1:A:150:ILE:HG22	1:A:150:ILE:O	2.02	0.59
1:A:732:ARG:H	1:A:747:SER:HB3	1.65	0.59
1:A:914:ARG:NH2	1:A:973:ASP:OD1	2.36	0.59
1:A:950:THR:HG23	1:A:951:GLU:H	1.66	0.59
1:A:1438:ARG:NE	2:L:376:GLY:O	2.35	0.59
1:B:312:ASN:OD1	1:B:312:ASN:N	2.25	0.59
1:B:573:PHE:HB2	1:B:574:PRO:HD2	1.85	0.59
1:B:1104:MET:C	2:G:54:PHE:HZ	2.03	0.59
1:B:1274:GLN:NE2	1:B:1293:ASN:HB3	2.17	0.59
4:B:2474:FMN:O4'	4:B:2474:FMN:C1'	2.10	0.59
1:C:193:PRO:O	1:C:194:ASP:C	2.43	0.59
1:C:223:GLN:HB3	1:C:224:PRO:HA	1.85	0.59
1:C:677:GLU:C	1:C:677:GLU:OE1	2.44	0.59
1:C:761:GLN:O	1:C:764:THR:HB	2.02	0.59
1:D:676:ALA:O	1:D:677:GLU:C	2.45	0.59
1:D:989:GLN:O	1:D:1245:ARG:HD3	2.01	0.59
1:E:479:MET:HG3	1:E:1104:MET:SD	2.42	0.59
1:F:918:THR:HG22	1:F:921:TYR:N	2.13	0.59
2:G:49:GLN:HE22	2:G:69:LEU:HG	1.65	0.59
2:G:420:TRP:HB2	2:G:422:THR:CG2	2.33	0.59
2:G:447:ALA:HB1	2:G:452:TRP:HE3	1.65	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:283:GLY:O	2:H:284:SER:HB3	2.01	0.59
2:H:297:GLY:HA2	2:H:320:TYR:CE1	2.37	0.59
2:I:203:ARG:HB3	2:I:203:ARG:NH1	2.17	0.59
2:J:186:LEU:HD11	2:J:200:VAL:CB	2.28	0.59
2:J:238:VAL:HG23	2:J:439:ALA:HA	1.85	0.59
2:J:257:ASN:HD22	2:J:364:ALA:HB3	1.67	0.59
2:J:410:PHE:C	2:J:413:PRO:HD2	2.26	0.59
2:J:430:LYS:HD2	2:J:460:ALA:HB2	1.82	0.59
2:K:32:TYR:HE2	2:K:194:LYS:HB3	1.67	0.59
2:L:202:ARG:HH21	2:L:206:LEU:HD11	1.67	0.59
2:L:366:ARG:NE	2:L:391:GLN:HG2	2.14	0.59
2:L:387:GLU:HG2	2:L:388:PHE:N	2.17	0.59
1:A:1170:GLN:OE1	1:A:1183:LEU:HB2	2.01	0.59
1:B:266:VAL:O	1:B:279:THR:HG21	2.01	0.59
1:B:479:MET:HG3	1:B:1104:MET:CE	2.30	0.59
1:B:559:ARG:NH1	1:B:568:GLU:OE2	2.35	0.59
1:B:1291:ASP:OD1	1:B:1291:ASP:C	2.42	0.59
1:C:22:ILE:O	1:C:23:GLU:C	2.45	0.59
1:C:846:ILE:O	1:C:847:THR:C	2.45	0.59
1:C:1307:VAL:HG12	1:C:1322:ILE:CD1	2.33	0.59
1:D:397:SER:HB2	1:D:399:LYS:HG3	1.84	0.59
1:E:22:ILE:O	1:E:23:GLU:C	2.45	0.59
1:E:746:ILE:O	1:E:747:SER:C	2.43	0.59
1:E:918:THR:CG2	1:E:1256:MET:SD	2.91	0.59
1:E:1388:THR:O	1:E:1388:THR:HG23	2.01	0.59
1:F:322:SER:O	1:F:528:ASN:ND2	2.35	0.59
1:F:390:MET:HG3	1:F:406:LEU:HD23	1.84	0.59
1:F:403:ASP:OD1	1:F:403:ASP:C	2.46	0.59
1:F:461:MET:HE1	1:F:465:LEU:HD23	1.84	0.59
1:F:958:HIS:O	1:F:1369:THR:CG2	2.51	0.59
2:G:77:LEU:HD21	2:G:126:TYR:CE2	2.38	0.59
2:G:189:GLY:O	2:G:265:LEU:HD13	2.03	0.59
2:G:387:GLU:HG2	2:G:388:PHE:N	2.17	0.59
2:G:439:ALA:HB1	2:G:443:ILE:CD1	2.32	0.59
2:H:46:ARG:CZ	2:H:118:VAL:HA	2.32	0.59
2:H:238:VAL:HG23	2:H:439:ALA:HA	1.84	0.59
2:H:365:VAL:CG2	2:H:366:ARG:HG3	2.31	0.59
2:H:415:LEU:HG	2:H:432:THR:HG21	1.82	0.59
2:I:225:SER:HB3	2:I:227:PRO:CD	2.23	0.59
2:J:256:GLY:O	2:J:257:ASN:HB2	2.01	0.59
2:J:361:GLY:O	2:J:362:VAL:HB	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:167:ARG:HH21	2:K:170:GLY:HA2	1.67	0.59
2:K:202:ARG:HH21	2:K:206:LEU:HD11	1.67	0.59
2:K:212:VAL:HG22	2:K:214:TYR:CE1	2.38	0.59
2:L:100:GLN:HA	2:L:100:GLN:NE2	2.17	0.59
2:L:295:LEU:CD2	2:L:319:LEU:HD13	2.32	0.59
2:L:336:HIS:O	2:L:340:GLU:HG2	2.01	0.59
2:L:418:THR:HG1	2:L:420:TRP:CD1	2.21	0.59
1:A:746:ILE:O	1:A:747:SER:C	2.43	0.59
1:A:761:GLN:O	1:A:764:THR:HB	2.02	0.59
1:B:225:PHE:HB3	1:B:278:ASP:OD2	2.02	0.59
1:B:248:GLU:HA	1:B:251:MET:HG2	1.84	0.59
1:B:1050:SER:O	1:B:1051:GLU:C	2.46	0.59
1:C:1320:ASN:C	1:C:1341:GLN:HG3	2.28	0.59
1:D:1105:VAL:HG23	2:H:54:PHE:HE1	1.64	0.59
1:D:1132:PRO:O	1:D:1136:VAL:HG23	2.02	0.59
1:D:1420:TYR:O	1:D:1422:SER:N	2.36	0.59
1:E:150:ILE:HG22	1:E:150:ILE:O	2.02	0.59
1:E:208:HIS:ND1	1:E:223:GLN:OE1	2.35	0.59
1:F:312:ASN:HB2	1:F:411:ALA:HB1	1.83	0.59
1:F:508:ASN:HB2	1:F:509:PRO:HD2	1.84	0.59
1:F:560:ASP:O	1:F:562:MET:N	2.36	0.59
1:F:572:THR:HG23	1:F:573:PHE:N	2.16	0.59
1:F:989:GLN:O	1:F:1245:ARG:HD3	2.01	0.59
1:F:1077:ARG:O	1:F:1078:ASP:C	2.45	0.59
1:F:1132:PRO:O	1:F:1136:VAL:HG23	2.02	0.59
1:F:1336:LEU:HB3	1:F:1355:VAL:HG13	1.84	0.59
1:F:1420:TYR:O	1:F:1422:SER:N	2.36	0.59
1:F:1442:GLU:OE2	2:G:375:THR:N	2.36	0.59
2:G:202:ARG:HH21	2:G:206:LEU:HD11	1.67	0.59
2:G:256:GLY:O	2:G:257:ASN:HB2	2.01	0.59
2:G:291:HIS:HE1	2:G:317:LYS:HB3	1.67	0.59
2:G:316:VAL:CB	2:G:342:VAL:HG22	2.33	0.59
2:H:190:ILE:HG23	2:H:191:PRO:HD2	1.84	0.59
2:H:203:ARG:HB3	2:H:203:ARG:NH1	2.17	0.59
2:H:291:HIS:HE1	2:H:317:LYS:CB	2.16	0.59
2:H:449:LEU:HD23	2:H:452:TRP:CD2	2.38	0.59
2:I:197:LYS:HD3	2:I:274:GLY:H	1.67	0.59
2:J:295:LEU:CD2	2:J:319:LEU:HD13	2.32	0.59
2:J:449:LEU:HD23	2:J:452:TRP:CD2	2.38	0.59
2:K:291:HIS:HE1	2:K:317:LYS:CB	2.16	0.59
2:L:68:TRP:CE3	2:L:84:SER:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:189:GLY:O	2:L:265:LEU:HD13	2.03	0.59
2:L:207:LEU:O	2:L:210:ALA:HB3	2.02	0.59
2:L:430:LYS:CE	2:L:440:ALA:HB2	2.32	0.59
1:B:447:LEU:CD1	1:B:451:GLN:CG	2.80	0.59
1:B:560:ASP:O	1:B:562:MET:N	2.36	0.59
1:B:676:ALA:O	1:B:677:GLU:C	2.45	0.59
1:B:1442:GLU:OE2	2:H:375:THR:N	2.36	0.59
1:C:115:ASP:OD2	1:D:1194:GLU:HB2	2.02	0.59
1:C:732:ARG:H	1:C:747:SER:HB3	1.65	0.59
1:C:950:THR:CG2	1:C:952:MET:H	2.15	0.59
1:C:1412:PHE:N	1:C:1412:PHE:CD1	2.70	0.59
1:D:560:ASP:O	1:D:562:MET:N	2.36	0.59
1:D:869:GLY:O	1:D:873:VAL:HG23	2.03	0.59
1:D:1442:GLU:OE2	2:I:375:THR:N	2.36	0.59
1:E:359:THR:HG23	1:E:378:GLN:CA	2.33	0.59
1:F:447:LEU:CD1	1:F:451:GLN:CG	2.80	0.59
1:F:559:ARG:NH1	1:F:568:GLU:OE2	2.35	0.59
1:F:782:ARG:HB3	2:I:53:PRO:HD2	1.80	0.59
2:G:68:TRP:HD1	2:G:69:LEU:N	2.01	0.59
2:G:110:ILE:HD11	2:G:117:ALA:C	2.28	0.59
2:G:195:LEU:C	2:G:195:LEU:HD12	2.27	0.59
2:G:238:VAL:HG23	2:G:439:ALA:HA	1.85	0.59
2:G:238:VAL:CG2	2:G:439:ALA:HB2	2.33	0.59
2:G:257:ASN:HD22	2:G:364:ALA:HB3	1.67	0.59
2:H:77:LEU:HD21	2:H:126:TYR:CE2	2.38	0.59
2:H:100:GLN:HA	2:H:100:GLN:NE2	2.17	0.59
2:H:226:LEU:HD21	2:H:434:MET:SD	2.42	0.59
2:I:68:TRP:HD1	2:I:69:LEU:N	2.01	0.59
2:I:166:LEU:CD2	2:I:461:ALA:HB1	2.31	0.59
2:I:226:LEU:HD21	2:I:434:MET:SD	2.42	0.59
2:I:471:LYS:HA	2:I:471:LYS:CE	2.23	0.59
2:J:167:ARG:HH21	2:J:170:GLY:HA2	1.67	0.59
2:J:416:LYS:HB2	2:J:416:LYS:HZ2	1.68	0.59
2:J:447:ALA:HB1	2:J:452:TRP:HE3	1.65	0.59
2:K:110:ILE:HD11	2:K:117:ALA:C	2.28	0.59
1:A:115:ASP:OD2	1:B:1194:GLU:HB2	2.02	0.59
1:A:494:GLY:O	1:A:495:LEU:C	2.42	0.59
1:A:663:ALA:O	1:A:720:ARG:NE	2.36	0.59
1:A:823:MET:C	1:A:824:GLN:HE21	2.10	0.59
1:A:846:ILE:O	1:A:847:THR:C	2.45	0.59
1:A:1369:THR:C	1:A:1389:GLY:O	2.46	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:857:GLY:O	4:B:2474:FMN:C4A	2.50	0.59
1:B:947:PHE:O	1:B:947:PHE:CD1	2.56	0.59
1:B:1420:TYR:O	1:B:1422:SER:N	2.36	0.59
1:C:479:MET:HG3	1:C:1104:MET:SD	2.42	0.59
1:C:663:ALA:O	1:C:720:ARG:NE	2.36	0.59
1:C:1425:LYS:HE2	1:C:1447:TRP:CD1	2.38	0.59
1:D:913:GLY:HA2	1:D:1349:ARG:CD	2.27	0.59
1:E:24:ALA:O	1:E:26:LYS:N	2.36	0.59
1:E:1412:PHE:N	1:E:1412:PHE:CD1	2.70	0.59
1:E:1425:LYS:HE2	1:E:1447:TRP:CD1	2.38	0.59
1:F:693:MET:O	1:F:694:ALA:C	2.45	0.59
1:F:850:ARG:O	1:F:853:PHE:HB2	2.03	0.59
1:F:869:GLY:O	1:F:873:VAL:HG23	2.03	0.59
1:F:947:PHE:O	1:F:947:PHE:CD1	2.56	0.59
2:G:291:HIS:HE1	2:G:317:LYS:CB	2.16	0.59
2:I:238:VAL:HG23	2:I:439:ALA:HA	1.85	0.59
2:I:288:ALA:HB3	2:I:311:GLN:HG3	1.85	0.59
2:J:360:THR:HG22	2:J:365:VAL:CG1	2.33	0.59
2:K:238:VAL:CG2	2:K:439:ALA:HB2	2.33	0.59
2:L:32:TYR:HE2	2:L:194:LYS:HB3	1.67	0.59
2:L:316:VAL:CB	2:L:342:VAL:HG22	2.33	0.59
2:L:420:TRP:HB2	2:L:422:THR:CG2	2.33	0.59
1:A:193:PRO:O	1:A:194:ASP:C	2.43	0.59
1:A:253:HIS:CE1	1:A:254:PRO:CG	2.85	0.59
1:A:1076:GLY:CA	1:A:1145:GLU:HG2	2.28	0.59
1:A:1307:VAL:HG12	1:A:1322:ILE:CD1	2.33	0.59
1:A:1425:LYS:HE2	1:A:1447:TRP:CD1	2.38	0.59
1:B:461:MET:HE1	1:B:465:LEU:HD23	1.84	0.59
1:B:555:PHE:C	1:B:555:PHE:HD1	2.11	0.59
1:B:1045:TRP:O	1:B:1046:GLU:C	2.44	0.59
1:B:1438:ARG:O	1:B:1439:PHE:C	2.45	0.59
1:C:249:THR:HG22	1:C:250:ARG:HG2	1.85	0.59
1:C:253:HIS:CE1	1:C:254:PRO:CG	2.85	0.59
1:C:345:MET:CE	1:C:385:LEU:CB	2.81	0.59
1:C:824:GLN:HE21	1:C:824:GLN:HA	1.66	0.59
1:C:842:GLU:HB3	1:C:1156:ARG:HD3	1.84	0.59
1:D:113:ASN:HD21	1:D:115:ASP:H	1.47	0.59
1:D:149:TYR:CD2	1:D:286:ARG:HG3	2.38	0.59
1:D:303:LEU:HD11	1:D:314:LYS:HG2	1.85	0.59
1:D:958:HIS:O	1:D:1369:THR:CG2	2.51	0.59
1:E:345:MET:CE	1:E:385:LEU:CB	2.81	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:447:LEU:HD13	1:E:670:LEU:CD2	2.33	0.59
1:E:825:LEU:HD12	1:E:1186:ARG:NH1	2.13	0.59
1:E:893:ARG:HG2	1:E:903:TRP:HB2	1.85	0.59
1:E:1307:VAL:HG12	1:E:1322:ILE:CD1	2.33	0.59
1:F:570:ASP:O	1:F:588:ARG:NH2	2.34	0.59
2:G:349:ALA:CB	2:G:350:PRO:HD3	2.31	0.59
2:G:365:VAL:CG2	2:G:366:ARG:HG3	2.31	0.59
2:H:196:GLU:O	2:H:199:VAL:HB	2.03	0.59
2:H:212:VAL:HG22	2:H:214:TYR:CE1	2.38	0.59
2:J:32:TYR:HE2	2:J:194:LYS:HB3	1.67	0.59
2:J:68:TRP:CE3	2:J:84:SER:HB3	2.37	0.59
2:J:77:LEU:HD21	2:J:126:TYR:CE2	2.38	0.59
2:J:291:HIS:CE1	2:J:317:LYS:HB3	2.38	0.59
2:K:288:ALA:HB3	2:K:311:GLN:HG3	1.85	0.59
2:K:291:HIS:CE1	2:K:317:LYS:HB3	2.38	0.59
2:L:196:GLU:O	2:L:199:VAL:HB	2.03	0.59
2:L:238:VAL:CG2	2:L:439:ALA:HB2	2.33	0.59
1:A:140:SER:O	1:A:141:ASP:C	2.44	0.59
1:A:145:GLU:O	1:A:146:LEU:C	2.41	0.59
1:B:303:LEU:HD11	1:B:314:LYS:HG2	1.85	0.59
1:B:720:ARG:C	1:B:722:GLY:H	2.11	0.59
1:B:782:ARG:HH21	2:G:51:GLY:CA	0.99	0.59
1:B:782:ARG:NE	2:G:53:PRO:HD3	2.17	0.59
1:B:897:ASP:OD1	1:B:897:ASP:C	2.46	0.59
1:C:150:ILE:HG22	1:C:150:ILE:O	2.02	0.59
1:C:316:LEU:O	1:C:319:TYR:HB3	2.02	0.59
1:C:782:ARG:NE	2:K:53:PRO:CD	2.60	0.59
1:C:1374:VAL:C	1:C:1375:ILE:HG13	2.28	0.59
1:D:720:ARG:C	1:D:722:GLY:H	2.11	0.59
1:D:897:ASP:OD1	1:D:897:ASP:C	2.46	0.59
1:D:1169:HIS:N	1:D:1169:HIS:ND1	2.49	0.59
1:E:556:ARG:O	1:E:557:ALA:C	2.44	0.59
1:E:652:THR:HG21	1:E:703:GLY:HA3	1.84	0.59
1:E:823:MET:O	1:E:824:GLN:NE2	2.36	0.59
1:E:1038:ILE:HG22	1:E:1038:ILE:O	2.02	0.59
1:E:1315:LEU:HB3	1:E:1320:ASN:HD22	1.67	0.59
1:E:1393:TYR:O	1:E:1394:VAL:CG2	2.44	0.59
1:E:1432:VAL:HG22	1:E:1440:ALA:HB3	1.83	0.59
1:F:782:ARG:CB	2:I:56:GLN:NE2	2.41	0.59
1:F:1420:TYR:OH	1:F:1466:LEU:HD22	2.03	0.59
2:G:68:TRP:CE3	2:G:84:SER:HB3	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:196:GLU:O	2:G:199:VAL:HB	2.03	0.59
2:G:212:VAL:HG22	2:G:214:TYR:CE1	2.38	0.59
2:G:360:THR:HG22	2:G:365:VAL:CG1	2.33	0.59
2:H:110:ILE:HD11	2:H:117:ALA:C	2.28	0.59
2:H:291:HIS:CE1	2:H:317:LYS:HB3	2.38	0.59
2:H:360:THR:HG22	2:H:365:VAL:CG1	2.33	0.59
2:I:220:VAL:HG22	8:I:484:FAD:C6A	2.29	0.59
2:I:383:ILE:CD1	2:I:386:SER:H	2.12	0.59
2:I:387:GLU:HG2	2:I:388:PHE:N	2.18	0.59
2:J:110:ILE:HD11	2:J:117:ALA:C	2.28	0.59
2:J:196:GLU:O	2:J:199:VAL:HB	2.03	0.59
2:J:203:ARG:HB3	2:J:203:ARG:NH1	2.17	0.59
2:J:283:GLY:O	2:J:284:SER:HB3	2.02	0.59
2:J:291:HIS:HE1	2:J:317:LYS:CB	2.16	0.59
2:K:277:VAL:HG12	2:K:279:ALA:H	1.68	0.59
2:K:316:VAL:CB	2:K:342:VAL:HG22	2.33	0.59
2:K:365:VAL:CG2	2:K:366:ARG:HG3	2.31	0.59
2:K:439:ALA:HB1	2:K:443:ILE:CD1	2.32	0.59
2:L:34:ARG:O	2:L:122:SER:HB2	2.03	0.59
2:L:68:TRP:HD1	2:L:69:LEU:N	2.01	0.59
2:L:383:ILE:HD12	2:L:386:SER:N	2.16	0.59
2:L:439:ALA:HB1	2:L:443:ILE:CD1	2.31	0.59
1:A:511:ILE:CG2	1:A:512:ASP:N	2.59	0.58
1:A:603:HIS:CA	1:A:640:THR:HG22	2.32	0.58
1:A:1316:GLU:O	1:A:1317:THR:C	2.45	0.58
1:B:390:MET:HG3	1:B:406:LEU:HD23	1.84	0.58
1:B:938:PRO:O	1:B:940:GLU:N	2.36	0.58
1:C:531:ASN:C	1:C:533:LEU:N	2.57	0.58
1:C:781:PHE:CE2	2:K:57:VAL:HG11	2.37	0.58
1:C:1432:VAL:HG22	1:C:1440:ALA:HB3	1.84	0.58
1:D:684:PHE:HB3	1:D:687:MET:HE3	1.85	0.58
1:D:838:VAL:CG1	1:D:839:PRO:N	2.66	0.58
1:D:850:ARG:O	1:D:853:PHE:HB2	2.03	0.58
1:D:1396:ASP:OD1	1:D:1396:ASP:C	2.45	0.58
1:E:244:MET:O	1:E:246:ALA:N	2.36	0.58
1:E:295:LYS:HZ1	1:E:299:VAL:HG12	1.68	0.58
1:F:481:ASP:OD1	1:F:481:ASP:C	2.43	0.58
1:F:643:ASN:HB3	1:F:665:THR:HG21	1.85	0.58
2:G:153:ILE:HG12	2:G:220:VAL:CG2	2.33	0.58
2:G:432:THR:HG22	2:G:434:MET:N	2.15	0.58
2:H:286:ASN:HB2	2:H:311:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:295:LEU:CD2	2:H:319:LEU:HD13	2.32	0.58
2:H:316:VAL:CB	2:H:342:VAL:HG22	2.33	0.58
2:I:271:VAL:CG1	2:I:281:GLU:HG2	2.33	0.58
2:I:418:THR:HG1	2:I:420:TRP:CD1	2.21	0.58
2:J:286:ASN:HB2	2:J:311:GLN:HE22	1.68	0.58
2:J:432:THR:HG22	2:J:434:MET:N	2.15	0.58
2:K:68:TRP:HD1	2:K:69:LEU:N	2.01	0.58
2:K:100:GLN:HA	2:K:100:GLN:NE2	2.17	0.58
2:K:189:GLY:O	2:K:265:LEU:HD13	2.03	0.58
2:K:207:LEU:O	2:K:210:ALA:HB3	2.02	0.58
2:K:283:GLY:O	2:K:284:SER:HB3	2.02	0.58
2:K:291:HIS:HE1	2:K:317:LYS:HB3	1.67	0.58
2:K:361:GLY:O	2:K:362:VAL:HB	2.01	0.58
2:K:418:THR:HG1	2:K:420:TRP:CD1	2.21	0.58
2:K:477:ALA:C	2:K:478:VAL:HG22	2.27	0.58
2:L:291:HIS:HD2	2:L:392:ALA:CB	2.16	0.58
2:L:360:THR:HG22	2:L:365:VAL:CG1	2.33	0.58
1:A:218:THR:HG22	1:A:221:LEU:H	1.69	0.58
1:A:447:LEU:HD13	1:A:670:LEU:CD2	2.33	0.58
1:A:918:THR:CG2	1:A:1256:MET:SD	2.91	0.58
1:B:643:ASN:HB3	1:B:665:THR:HG21	1.85	0.58
1:C:249:THR:CG2	1:C:250:ARG:HG2	2.31	0.58
1:C:1075:THR:CG2	1:C:1076:GLY:N	2.66	0.58
1:C:1316:GLU:O	1:C:1317:THR:C	2.45	0.58
1:D:31:ARG:NH1	1:D:368:GLU:OE1	2.37	0.58
1:D:248:GLU:HA	1:D:251:MET:HG2	1.85	0.58
1:D:461:MET:HE1	1:D:465:LEU:HD23	1.84	0.58
1:D:481:ASP:OD1	1:D:481:ASP:C	2.44	0.58
1:D:938:PRO:O	1:D:940:GLU:N	2.36	0.58
1:D:1171:VAL:HG12	1:D:1171:VAL:O	2.02	0.58
1:D:1221:PRO:HD2	1:D:1229:MET:CE	2.26	0.58
1:E:330:PRO:HA	1:E:350:LEU:HB2	1.84	0.58
1:E:494:GLY:O	1:E:495:LEU:C	2.42	0.58
1:E:547:SER:C	1:E:549:VAL:N	2.58	0.58
1:E:781:PHE:CE2	2:L:57:VAL:CG2	2.83	0.58
1:E:982:GLN:NE2	1:E:1240:ARG:HD2	2.16	0.58
1:F:897:ASP:OD1	1:F:897:ASP:C	2.45	0.58
2:G:207:LEU:O	2:G:210:ALA:HB3	2.02	0.58
2:H:166:LEU:CD2	2:H:461:ALA:HB1	2.31	0.58
2:H:256:GLY:O	2:H:257:ASN:HB2	2.01	0.58
2:I:291:HIS:CE1	2:I:317:LYS:HB3	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:291:HIS:HD2	2:I:392:ALA:CB	2.16	0.58
2:I:417:VAL:HG11	2:I:421:GLY:HA2	1.86	0.58
2:K:271:VAL:CG1	2:K:281:GLU:HG2	2.33	0.58
2:K:286:ASN:HB2	2:K:311:GLN:HE22	1.68	0.58
2:L:190:ILE:HG23	2:L:191:PRO:HD2	1.84	0.58
2:L:266:THR:HG23	2:L:270:LYS:HZ2	1.67	0.58
2:L:297:GLY:HA2	2:L:320:TYR:CE1	2.37	0.58
1:A:24:ALA:O	1:A:26:LYS:N	2.36	0.58
1:A:102:TYR:HA	1:A:136:ASN:OD1	2.04	0.58
1:A:1077:ARG:O	1:A:1078:ASP:C	2.44	0.58
1:B:31:ARG:NH1	1:B:368:GLU:OE1	2.37	0.58
1:B:1396:ASP:OD1	1:B:1396:ASP:C	2.45	0.58
1:C:149:TYR:O	1:C:150:ILE:C	2.42	0.58
1:C:244:MET:O	1:C:246:ALA:N	2.36	0.58
1:C:330:PRO:HA	1:C:350:LEU:HB2	1.84	0.58
1:C:466:HIS:CE1	1:C:684:PHE:CE1	2.91	0.58
1:C:560:ASP:O	1:C:561:TYR:C	2.46	0.58
1:C:914:ARG:NH2	1:C:973:ASP:OD1	2.35	0.58
1:C:1114:PRO:CG	2:K:109:VAL:O	2.51	0.58
1:C:1369:THR:C	1:C:1389:GLY:O	2.46	0.58
1:C:1425:LYS:CD	1:C:1447:TRP:CE2	2.86	0.58
1:C:1442:GLU:CG	2:J:374:ALA:O	2.51	0.58
1:D:40:THR:HG22	1:D:40:THR:O	2.04	0.58
1:D:484:PRO:HG3	1:D:823:MET:HG3	1.85	0.58
1:D:551:THR:O	1:D:554:GLU:HG2	2.03	0.58
1:D:657:VAL:HG12	1:D:658:LEU:N	2.15	0.58
1:D:1420:TYR:OH	1:D:1466:LEU:HD22	2.03	0.58
1:E:115:ASP:OD2	1:F:1194:GLU:HB2	2.02	0.58
1:E:139:VAL:CG1	1:E:143:GLN:CB	2.81	0.58
1:E:531:ASN:O	1:E:533:LEU:N	2.37	0.58
1:E:607:THR:HB	1:E:645:ARG:HB2	1.84	0.58
1:E:894:PHE:CD2	1:E:924:GLN:HG3	2.39	0.58
1:E:1077:ARG:O	1:E:1078:ASP:C	2.44	0.58
1:F:324:MET:HE2	1:F:327:TRP:HE1	1.67	0.58
1:F:589:ILE:HD12	1:F:627:VAL:HG23	1.85	0.58
1:F:838:VAL:CG1	1:F:839:PRO:N	2.66	0.58
1:F:1051:GLU:O	1:F:1052:VAL:C	2.46	0.58
1:F:1093:GLY:O	1:F:1094:THR:C	2.45	0.58
2:G:34:ARG:O	2:G:122:SER:HB2	2.03	0.58
2:G:190:ILE:HG23	2:G:191:PRO:HD2	1.84	0.58
2:G:286:ASN:HB2	2:G:311:GLN:HE22	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:291:HIS:CE1	2:G:317:LYS:HB3	2.38	0.58
2:G:449:LEU:HD23	2:G:452:TRP:CD2	2.38	0.58
2:H:181:ARG:C	2:H:181:ARG:HD2	2.28	0.58
2:H:387:GLU:HG2	2:H:388:PHE:N	2.17	0.58
2:H:430:LYS:HD2	2:H:460:ALA:HB2	1.82	0.58
2:I:34:ARG:O	2:I:122:SER:HB2	2.03	0.58
2:I:110:ILE:HD11	2:I:117:ALA:C	2.28	0.58
2:I:277:VAL:HG12	2:I:279:ALA:H	1.68	0.58
2:J:181:ARG:C	2:J:181:ARG:HD2	2.28	0.58
2:J:271:VAL:CG1	2:J:281:GLU:HG2	2.33	0.58
2:J:291:HIS:HD2	2:J:392:ALA:CB	2.16	0.58
2:K:37:ASP:OD1	2:K:38:GLU:HG2	2.03	0.58
2:K:178:ARG:HD3	2:K:219:GLU:OE1	2.04	0.58
2:L:153:ILE:HG12	2:L:220:VAL:CG2	2.34	0.58
1:A:22:ILE:O	1:A:23:GLU:C	2.45	0.58
1:A:359:THR:HG23	1:A:378:GLN:CA	2.33	0.58
1:A:466:HIS:CE1	1:A:684:PHE:CE1	2.91	0.58
1:A:570:ASP:OD1	1:A:572:THR:HB	2.04	0.58
1:A:823:MET:O	1:A:824:GLN:NE2	2.36	0.58
1:A:958:HIS:O	1:A:1369:THR:HG21	1.99	0.58
1:B:40:THR:HG22	1:B:40:THR:O	2.03	0.58
1:B:505:GLN:NE2	1:B:1000:LEU:CB	2.59	0.58
1:B:1077:ARG:O	1:B:1078:ASP:C	2.45	0.58
1:B:1420:TYR:OH	1:B:1466:LEU:HD22	2.02	0.58
1:C:218:THR:HG22	1:C:221:LEU:H	1.69	0.58
1:C:481:ASP:OD1	1:C:481:ASP:C	2.44	0.58
1:C:823:MET:O	1:C:824:GLN:NE2	2.36	0.58
1:C:823:MET:C	1:C:824:GLN:HE21	2.10	0.58
1:C:876:ASN:HB3	1:E:1227:GLU:OE1	2.03	0.58
1:C:1438:ARG:O	1:C:1439:PHE:C	2.45	0.58
1:D:4:GLY:HA3	1:D:207:TYR:CZ	2.39	0.58
1:E:249:THR:HG22	1:E:250:ARG:HG2	1.85	0.58
1:E:914:ARG:NH2	1:E:973:ASP:OD1	2.36	0.58
1:E:1114:PRO:CG	2:L:109:VAL:O	2.51	0.58
1:E:1316:GLU:O	1:E:1317:THR:C	2.45	0.58
1:F:303:LEU:HD11	1:F:314:LYS:HG2	1.85	0.58
1:F:1438:ARG:O	1:F:1439:PHE:C	2.45	0.58
2:G:166:LEU:CD2	2:G:461:ALA:HB1	2.31	0.58
2:G:361:GLY:O	2:G:362:VAL:HB	2.01	0.58
2:I:196:GLU:O	2:I:199:VAL:HB	2.03	0.58
2:I:212:VAL:HG22	2:I:214:TYR:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:277:VAL:HG12	2:J:279:ALA:H	1.68	0.58
2:J:297:GLY:HA2	2:J:320:TYR:CE1	2.37	0.58
2:K:196:GLU:O	2:K:199:VAL:HB	2.03	0.58
2:L:71:LEU:CD1	2:L:80:ALA:H	2.17	0.58
2:L:77:LEU:HD21	2:L:126:TYR:CE2	2.38	0.58
2:L:178:ARG:HD3	2:L:219:GLU:OE1	2.04	0.58
2:L:195:LEU:C	2:L:195:LEU:HD12	2.27	0.58
1:A:149:TYR:O	1:A:150:ILE:C	2.42	0.58
1:A:913:GLY:O	1:A:915:PHE:N	2.35	0.58
1:B:4:GLY:HA3	1:B:207:TYR:CZ	2.39	0.58
1:B:684:PHE:HB3	1:B:687:MET:HE3	1.85	0.58
1:B:782:ARG:HH21	2:G:51:GLY:HA3	0.69	0.58
1:B:1366:GLU:CG	1:B:1367:TYR:CD2	2.84	0.58
1:C:24:ALA:O	1:C:26:LYS:N	2.36	0.58
1:C:89:CYS:O	1:C:93:VAL:HG23	2.03	0.58
1:C:92:ILE:O	1:C:93:VAL:C	2.45	0.58
1:C:531:ASN:O	1:C:533:LEU:N	2.37	0.58
1:C:918:THR:CG2	1:C:1256:MET:SD	2.91	0.58
1:D:573:PHE:HB2	1:D:574:PRO:HD2	1.85	0.58
1:D:838:VAL:O	1:D:1151:ALA:HB1	2.04	0.58
1:E:18:VAL:O	1:E:19:GLU:C	2.42	0.58
1:E:570:ASP:O	1:E:572:THR:N	2.37	0.58
1:E:1320:ASN:C	1:E:1341:GLN:HG3	2.28	0.58
1:E:1425:LYS:CD	1:E:1447:TRP:CE2	2.86	0.58
1:F:248:GLU:O	1:F:250:ARG:N	2.37	0.58
1:F:648:GLU:O	1:F:648:GLU:CG	2.51	0.58
1:F:660:GLY:HA2	1:F:721:GLY:H	1.68	0.58
1:F:1432:VAL:O	1:F:1433:THR:C	2.45	0.58
2:G:283:GLY:O	2:G:284:SER:HB3	2.02	0.58
2:H:167:ARG:HH21	2:H:170:GLY:HA2	1.67	0.58
2:H:238:VAL:CG2	2:H:439:ALA:HB2	2.33	0.58
2:H:361:GLY:O	2:H:362:VAL:HB	2.01	0.58
2:I:37:ASP:OD1	2:I:38:GLU:HG2	2.03	0.58
2:I:190:ILE:HG23	2:I:191:PRO:HD2	1.84	0.58
2:I:283:GLY:O	2:I:284:SER:HB3	2.02	0.58
2:I:297:GLY:HA2	2:I:320:TYR:CE1	2.38	0.58
2:J:100:GLN:HA	2:J:100:GLN:NE2	2.17	0.58
2:J:316:VAL:CB	2:J:342:VAL:HG22	2.33	0.58
2:J:365:VAL:CG2	2:J:366:ARG:HG3	2.31	0.58
2:K:360:THR:HG22	2:K:365:VAL:CG1	2.33	0.58
2:L:37:ASP:OD1	2:L:38:GLU:HG2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:110:ILE:HD11	2:L:117:ALA:C	2.28	0.58
2:L:212:VAL:HG22	2:L:214:TYR:CE1	2.38	0.58
2:L:238:VAL:HG23	2:L:439:ALA:HA	1.84	0.58
1:A:5:PHE:O	1:A:365:GLY:N	2.34	0.58
1:A:139:VAL:CG1	1:A:143:GLN:HB2	2.32	0.58
1:A:244:MET:O	1:A:246:ALA:N	2.36	0.58
1:A:1038:ILE:HG22	1:A:1038:ILE:O	2.02	0.58
1:A:1315:LEU:HB3	1:A:1320:ASN:HD22	1.67	0.58
1:B:244:MET:HE2	1:B:244:MET:HA	1.84	0.58
1:B:660:GLY:HA2	1:B:721:GLY:H	1.68	0.58
1:B:782:ARG:N	2:G:52:VAL:CB	2.64	0.58
1:B:838:VAL:O	1:B:1151:ALA:HB1	2.04	0.58
1:B:1228:LYS:H	1:D:901:ASP:HA	1.69	0.58
1:C:119:GLU:O	1:C:120:LYS:C	2.47	0.58
1:C:139:VAL:CG1	1:C:143:GLN:HB2	2.32	0.58
1:C:208:HIS:ND1	1:C:223:GLN:OE1	2.35	0.58
1:C:570:ASP:O	1:C:572:THR:N	2.37	0.58
1:C:734:LEU:HD12	1:C:734:LEU:O	2.04	0.58
1:C:1356:VAL:HG11	1:C:1431:HIS:CG	2.38	0.58
1:C:1447:TRP:CD2	1:C:1451:VAL:CG2	2.87	0.58
1:D:570:ASP:O	1:D:588:ARG:NH2	2.34	0.58
1:D:643:ASN:HB3	1:D:665:THR:HG21	1.85	0.58
1:D:670:LEU:HD22	1:D:670:LEU:O	2.01	0.58
1:D:782:ARG:HB3	2:H:53:PRO:HD2	1.80	0.58
1:D:1438:ARG:O	1:D:1439:PHE:C	2.45	0.58
1:E:143:GLN:HE21	1:E:143:GLN:CA	2.14	0.58
1:E:1442:GLU:CG	2:K:374:ALA:O	2.51	0.58
1:F:684:PHE:HB3	1:F:687:MET:HE3	1.85	0.58
2:I:32:TYR:HE2	2:I:194:LYS:HB3	1.67	0.58
2:I:153:ILE:HG12	2:I:220:VAL:CG2	2.33	0.58
2:I:181:ARG:C	2:I:181:ARG:HD2	2.28	0.58
2:I:189:GLY:O	2:I:265:LEU:HD13	2.03	0.58
2:J:288:ALA:HB3	2:J:311:GLN:HG3	1.85	0.58
2:K:153:ILE:HG12	2:K:220:VAL:CG2	2.33	0.58
2:L:175:VAL:HG12	2:L:213:ILE:O	2.04	0.58
1:B:850:ARG:O	1:B:853:PHE:HB2	2.03	0.58
1:B:958:HIS:O	1:B:1369:THR:CG2	2.51	0.58
1:C:76:VAL:HG13	1:C:129:GLU:O	2.04	0.58
1:C:558:MET:O	1:C:560:ASP:N	2.36	0.58
1:C:575:VAL:HG13	1:C:759:LEU:HD22	1.84	0.58
1:D:248:GLU:O	1:D:250:ARG:N	2.37	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:947:PHE:O	1:D:947:PHE:CD1	2.56	0.58
1:E:89:CYS:O	1:E:93:VAL:HG23	2.03	0.58
1:E:1131:THR:HB	1:E:1134:LYS:CG	2.32	0.58
1:E:1251:THR:OG1	1:E:1281:VAL:HG11	2.04	0.58
1:E:1356:VAL:HG11	1:E:1431:HIS:CG	2.38	0.58
1:F:78:LEU:HB3	1:F:79:PRO:HD2	1.86	0.58
1:F:227:MET:HE2	1:F:282:GLU:HG2	1.86	0.58
1:F:551:THR:O	1:F:554:GLU:HG2	2.03	0.58
2:G:114:THR:HG23	2:G:115:HIS:H	1.69	0.58
2:G:175:VAL:HG12	2:G:213:ILE:O	2.04	0.58
2:G:271:VAL:CG1	2:G:281:GLU:HG2	2.33	0.58
2:G:288:ALA:HB3	2:G:311:GLN:HG3	1.85	0.58
2:H:114:THR:HG23	2:H:115:HIS:H	1.69	0.58
2:I:71:LEU:CD1	2:I:80:ALA:H	2.17	0.58
2:I:286:ASN:HB2	2:I:311:GLN:HE22	1.68	0.58
2:J:417:VAL:HG11	2:J:421:GLY:HA2	1.85	0.58
2:K:420:TRP:HB2	2:K:422:THR:CG2	2.33	0.58
1:A:76:VAL:HG13	1:A:129:GLU:O	2.04	0.58
1:A:251:MET:HE3	1:A:533:LEU:CD1	2.28	0.58
1:A:251:MET:SD	1:A:532:ILE:HD11	2.44	0.58
1:A:345:MET:CE	1:A:385:LEU:CB	2.81	0.58
1:A:515:ARG:NE	1:A:1367:TYR:HE1	1.99	0.58
1:A:607:THR:HB	1:A:645:ARG:HB2	1.84	0.58
1:A:1131:THR:HB	1:A:1134:LYS:CG	2.32	0.58
1:A:1227:GLU:OE1	1:E:876:ASN:HB3	2.04	0.58
1:B:845:SER:O	1:B:848:ALA:HB3	2.04	0.58
1:C:102:TYR:HA	1:C:136:ASN:OD1	2.04	0.58
1:C:570:ASP:OD1	1:C:572:THR:HB	2.04	0.58
1:C:1216:VAL:HG13	1:C:1249:MET:HE2	1.86	0.58
1:D:660:GLY:HA2	1:D:721:GLY:H	1.68	0.58
1:E:177:ILE:CD1	1:E:179:TYR:HE1	2.17	0.58
1:E:481:ASP:OD1	1:E:481:ASP:C	2.44	0.58
1:F:1222:LEU:H	1:F:1229:MET:HE2	1.67	0.58
2:H:99:PRO:HD2	2:H:449:LEU:CD1	2.34	0.58
2:H:420:TRP:HB2	2:H:422:THR:CG2	2.33	0.58
2:H:447:ALA:HB1	2:H:452:TRP:HE3	1.65	0.58
2:I:295:LEU:CD2	2:I:319:LEU:HD13	2.32	0.58
2:I:316:VAL:CB	2:I:342:VAL:HG22	2.33	0.58
2:J:34:ARG:O	2:J:122:SER:HB2	2.03	0.58
2:J:68:TRP:HD1	2:J:69:LEU:N	2.01	0.58
2:J:212:VAL:HG22	2:J:214:TYR:CE1	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:257:ASN:HD22	2:L:364:ALA:HB3	1.67	0.58
2:L:286:ASN:HB2	2:L:311:GLN:HE22	1.68	0.58
2:L:291:HIS:HE1	2:L:317:LYS:CB	2.16	0.58
2:L:361:GLY:O	2:L:362:VAL:HB	2.01	0.58
2:L:449:LEU:HD23	2:L:452:TRP:CD2	2.38	0.58
1:A:582:LEU:HB3	1:A:755:GLN:HE21	1.69	0.58
1:A:826:ARG:HH11	1:A:826:ARG:CG	1.97	0.58
1:A:894:PHE:CD2	1:A:924:GLN:HG3	2.39	0.58
1:A:1320:ASN:C	1:A:1341:GLN:HG3	2.28	0.58
1:A:1356:VAL:HG11	1:A:1431:HIS:CG	2.38	0.58
1:A:1375:ILE:HG22	1:A:1375:ILE:O	2.02	0.58
1:B:113:ASN:HD21	1:B:115:ASP:H	1.47	0.58
1:B:551:THR:O	1:B:554:GLU:HG2	2.03	0.58
1:B:1401:LEU:C	1:B:1401:LEU:CD1	2.55	0.58
1:C:782:ARG:CB	2:K:52:VAL:HA	2.26	0.58
1:C:982:GLN:NE2	1:C:1240:ARG:HD2	2.16	0.58
1:C:1038:ILE:HG22	1:C:1038:ILE:O	2.02	0.58
1:C:1388:THR:O	1:C:1388:THR:HG23	2.01	0.58
1:D:324:MET:HE2	1:D:327:TRP:HE1	1.67	0.58
1:E:558:MET:O	1:E:560:ASP:N	2.36	0.58
1:E:625:GLY:O	1:E:626:ALA:C	2.42	0.58
1:E:1369:THR:C	1:E:1389:GLY:O	2.46	0.58
1:F:40:THR:HG22	1:F:40:THR:O	2.03	0.58
1:F:1104:MET:C	2:I:54:PHE:CZ	2.81	0.58
1:F:1221:PRO:HD2	1:F:1229:MET:CE	2.26	0.58
2:G:32:TYR:HE2	2:G:194:LYS:HB3	1.67	0.58
2:G:49:GLN:OE1	2:G:66:PRO:HA	2.04	0.58
2:G:71:LEU:CD1	2:G:80:ALA:H	2.17	0.58
2:G:77:LEU:HD22	2:G:130:THR:OG1	2.04	0.58
2:G:99:PRO:HD2	2:G:449:LEU:CD1	2.34	0.58
2:H:49:GLN:OE1	2:H:66:PRO:HA	2.04	0.58
2:H:90:PHE:HB3	2:H:93:ILE:HG22	1.86	0.58
2:H:418:THR:HG22	2:H:422:THR:O	2.04	0.58
2:I:108:CYS:SG	2:I:118:VAL:HG22	2.44	0.58
2:I:238:VAL:CG2	2:I:439:ALA:HB2	2.33	0.58
2:I:420:TRP:HB2	2:I:422:THR:CG2	2.33	0.58
2:K:220:VAL:HG22	8:K:484:FAD:C6A	2.29	0.58
2:K:387:GLU:HG2	2:K:388:PHE:N	2.18	0.58
1:A:45:GLY:HA3	1:A:224:PRO:HD2	1.85	0.58
1:A:249:THR:HG22	1:A:250:ARG:HG2	1.85	0.58
1:A:330:PRO:HA	1:A:350:LEU:HB2	1.84	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:419:TRP:O	1:A:422:ASN:HB2	2.04	0.58
1:A:531:ASN:O	1:A:533:LEU:N	2.37	0.58
1:A:570:ASP:O	1:A:572:THR:N	2.37	0.58
1:A:1391:MET:HE2	1:A:1458:VAL:HG21	1.76	0.58
1:A:1447:TRP:CD2	1:A:1451:VAL:CG2	2.87	0.58
1:B:248:GLU:O	1:B:250:ARG:N	2.37	0.58
1:B:1220:ARG:N	1:B:1221:PRO:CD	2.67	0.58
1:C:369:THR:HG23	1:C:370:GLY:N	2.17	0.58
1:C:582:LEU:O	1:C:585:ALA:HB3	2.03	0.58
1:C:1375:ILE:HG22	1:C:1375:ILE:O	2.02	0.58
1:C:1400:SER:O	1:C:1401:LEU:C	2.44	0.58
1:C:1449:ARG:NH1	1:C:1449:ARG:CB	2.14	0.58
1:D:244:MET:HE2	1:D:244:MET:HA	1.84	0.58
1:D:266:VAL:O	1:D:279:THR:HG21	2.01	0.58
1:D:1368:MET:HB3	1:D:1387:MET:HG3	1.86	0.58
1:E:236:THR:HG23	1:E:240:ASN:HD21	1.69	0.58
1:E:782:ARG:NE	2:L:53:PRO:CD	2.60	0.58
1:E:1219:ALA:O	1:E:1220:ARG:C	2.47	0.58
1:E:1285:LYS:HA	1:E:1304:THR:O	2.04	0.58
1:E:1447:TRP:CD2	1:E:1451:VAL:CG2	2.87	0.58
1:F:248:GLU:HA	1:F:251:MET:HG2	1.85	0.58
1:F:484:PRO:HG3	1:F:823:MET:HG3	1.85	0.58
1:F:573:PHE:HB2	1:F:574:PRO:HD2	1.85	0.58
1:F:594:GLU:OE1	1:F:598:ARG:NH2	2.34	0.58
1:F:757:LYS:HE2	1:F:1176:GLU:OE2	2.04	0.58
1:F:845:SER:O	1:F:848:ALA:HB3	2.04	0.58
1:F:997:THR:HG22	1:F:998:VAL:N	2.19	0.58
1:F:1368:MET:HB3	1:F:1387:MET:HG3	1.86	0.58
2:G:271:VAL:CG2	2:G:285:LEU:HG	2.31	0.58
2:G:418:THR:HG1	2:G:420:TRP:CD1	2.21	0.58
2:H:37:ASP:OD1	2:H:38:GLU:HG2	2.03	0.58
2:H:77:LEU:HD22	2:H:130:THR:OG1	2.04	0.58
2:H:175:VAL:HG12	2:H:213:ILE:O	2.04	0.58
2:H:189:GLY:O	2:H:265:LEU:HD13	2.03	0.58
2:I:178:ARG:HD3	2:I:219:GLU:OE1	2.04	0.58
2:I:257:ASN:HD22	2:I:364:ALA:HB3	1.67	0.58
2:J:257:ASN:ND2	2:J:394:LEU:HA	2.19	0.58
2:J:420:TRP:HB2	2:J:422:THR:CG2	2.33	0.58
2:K:34:ARG:O	2:K:122:SER:HB2	2.03	0.58
2:K:108:CYS:SG	2:K:118:VAL:HG22	2.44	0.58
2:K:181:ARG:C	2:K:181:ARG:HD2	2.28	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:271:VAL:CG1	2:L:281:GLU:HG2	2.33	0.58
2:L:417:VAL:HG11	2:L:421:GLY:HA2	1.86	0.58
1:A:119:GLU:O	1:A:120:LYS:C	2.47	0.57
1:A:319:TYR:O	1:A:322:SER:OG	2.17	0.57
1:A:729:GLY:C	1:A:748:GLY:HA3	2.29	0.57
1:A:780:ARG:NH1	2:J:50:CYS:CB	2.56	0.57
1:A:1282:GLN:CA	1:A:1302:GLY:O	2.52	0.57
1:A:1442:GLU:CG	2:L:374:ALA:O	2.51	0.57
1:B:607:THR:HB	1:B:645:ARG:HB2	1.86	0.57
1:B:628:HIS:O	1:B:629:THR:C	2.47	0.57
1:B:869:GLY:O	1:B:873:VAL:HG23	2.03	0.57
1:B:1227:GLU:OE2	1:D:902:ASN:CG	2.42	0.57
1:B:1318:ASN:H	1:B:1318:ASN:ND2	2.01	0.57
1:C:319:TYR:O	1:C:322:SER:OG	2.17	0.57
1:C:582:LEU:HB3	1:C:755:GLN:HE21	1.69	0.57
1:C:746:ILE:HG23	1:C:1182:ASP:CB	2.29	0.57
1:D:589:ILE:HD12	1:D:627:VAL:HG23	1.85	0.57
1:D:1220:ARG:N	1:D:1221:PRO:CD	2.67	0.57
1:D:1247:SER:OG	1:D:1280:ALA:HA	2.05	0.57
1:D:1442:GLU:HA	2:I:373:ASP:OD2	2.04	0.57
1:E:75:GLN:C	1:E:76:VAL:HG12	2.27	0.57
1:E:223:GLN:HB3	1:E:224:PRO:HA	1.85	0.57
1:E:236:THR:HG23	1:E:240:ASN:ND2	2.19	0.57
1:E:260:MET:O	1:E:263:LEU:CB	2.52	0.57
1:E:582:LEU:HB3	1:E:755:GLN:HE21	1.69	0.57
1:E:663:ALA:O	1:E:720:ARG:NE	2.36	0.57
1:F:113:ASN:HD21	1:F:115:ASP:H	1.47	0.57
1:F:528:ASN:HB2	1:F:542:LEU:HD22	1.85	0.57
1:F:838:VAL:O	1:F:1151:ALA:HB1	2.04	0.57
1:F:1050:SER:O	1:F:1051:GLU:C	2.46	0.57
2:G:138:LYS:HE3	2:G:164:GLU:OE2	2.04	0.57
2:G:181:ARG:C	2:G:181:ARG:HD2	2.28	0.57
2:G:305:VAL:HG11	2:G:342:VAL:HG21	1.82	0.57
2:H:271:VAL:CG1	2:H:281:GLU:HG2	2.33	0.57
2:J:37:ASP:OD1	2:J:38:GLU:HG2	2.03	0.57
2:J:49:GLN:OE1	2:J:66:PRO:HA	2.04	0.57
2:J:132:TRP:HD1	2:J:202:ARG:CD	2.17	0.57
2:J:238:VAL:CG2	2:J:439:ALA:HB2	2.33	0.57
2:K:99:PRO:HD2	2:K:449:LEU:CD1	2.34	0.57
2:K:321:ARG:HD3	2:K:322:ARG:HB2	1.86	0.57
2:L:99:PRO:HD2	2:L:449:LEU:CD1	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:138:LYS:HE3	2:L:164:GLU:OE2	2.04	0.57
2:L:365:VAL:CG2	2:L:366:ARG:HG3	2.31	0.57
1:A:139:VAL:CG1	1:A:143:GLN:CB	2.81	0.57
1:A:143:GLN:HE21	1:A:143:GLN:CA	2.14	0.57
1:A:1008:THR:HG22	1:A:1009:ILE:H	1.64	0.57
1:A:1114:PRO:CG	2:J:109:VAL:O	2.51	0.57
1:A:1398:ASP:O	1:A:1399:ASP:C	2.47	0.57
1:B:78:LEU:HB3	1:B:79:PRO:HD2	1.86	0.57
1:B:838:VAL:CG1	1:B:839:PRO:N	2.66	0.57
1:B:1093:GLY:O	1:B:1094:THR:C	2.45	0.57
1:B:1109:HIS:ND1	1:B:1109:HIS:N	2.44	0.57
1:C:260:MET:O	1:C:263:LEU:CB	2.52	0.57
1:C:457:THR:O	1:C:460:ASP:HB2	2.04	0.57
1:D:1:CYS:SG	1:D:211:TYR:HB2	2.45	0.57
1:D:648:GLU:O	1:D:648:GLU:CG	2.51	0.57
1:D:1077:ARG:O	1:D:1078:ASP:C	2.45	0.57
1:E:76:VAL:HG13	1:E:129:GLU:O	2.04	0.57
1:E:447:LEU:HD12	1:E:447:LEU:O	2.04	0.57
1:E:753:GLY:O	1:E:754:ILE:C	2.46	0.57
1:E:957:ARG:HD2	1:E:965:LEU:HD12	1.87	0.57
2:G:37:ASP:OD1	2:G:38:GLU:HG2	2.03	0.57
2:G:277:VAL:HG12	2:G:279:ALA:H	1.68	0.57
2:G:291:HIS:HD2	2:G:392:ALA:CB	2.16	0.57
2:H:34:ARG:O	2:H:122:SER:HB2	2.03	0.57
2:H:68:TRP:HD1	2:H:69:LEU:N	2.01	0.57
2:H:288:ALA:HB3	2:H:311:GLN:HG3	1.85	0.57
2:I:138:LYS:HE3	2:I:164:GLU:OE2	2.04	0.57
2:I:291:HIS:HE1	2:I:317:LYS:CB	2.16	0.57
2:K:138:LYS:HE3	2:K:164:GLU:OE2	2.04	0.57
2:K:418:THR:HG22	2:K:422:THR:O	2.04	0.57
2:K:447:ALA:HB1	2:K:452:TRP:HE3	1.65	0.57
2:L:108:CYS:SG	2:L:118:VAL:HG22	2.44	0.57
2:L:288:ALA:HB3	2:L:311:GLN:HG3	1.85	0.57
1:A:92:ILE:O	1:A:93:VAL:C	2.45	0.57
1:A:223:GLN:HB3	1:A:224:PRO:HA	1.85	0.57
1:A:1374:VAL:O	1:A:1375:ILE:HG12	2.01	0.57
1:A:1374:VAL:C	1:A:1375:ILE:HG13	2.28	0.57
1:B:1251:THR:OG1	1:B:1281:VAL:HG11	2.05	0.57
1:C:250:ARG:NH1	1:C:530:GLY:HA2	2.20	0.57
1:C:782:ARG:C	1:C:784:SER:H	2.12	0.57
1:C:876:ASN:CB	1:E:1227:GLU:OE2	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:894:PHE:CD2	1:C:924:GLN:HG3	2.39	0.57
1:C:1285:LYS:HA	1:C:1304:THR:O	2.04	0.57
1:D:52:GLN:NE2	1:D:71:LEU:HB2	2.17	0.57
1:D:236:THR:HG22	1:D:328:ASP:H	1.62	0.57
1:D:757:LYS:HE2	1:D:1176:GLU:OE2	2.04	0.57
1:D:845:SER:O	1:D:848:ALA:HB3	2.04	0.57
1:D:1251:THR:OG1	1:D:1281:VAL:HG11	2.05	0.57
1:E:218:THR:HG22	1:E:221:LEU:H	1.69	0.57
1:E:419:TRP:O	1:E:422:ASN:HB2	2.04	0.57
1:E:1282:GLN:CA	1:E:1302:GLY:O	2.52	0.57
1:F:4:GLY:HA3	1:F:207:TYR:CZ	2.39	0.57
1:F:37:ASP:OD1	1:F:38:GLY:N	2.38	0.57
1:F:526:LEU:HD12	1:F:526:LEU:H	1.66	0.57
1:F:666:VAL:HG12	1:F:667:ASN:N	2.19	0.57
1:F:731:SER:N	1:F:748:GLY:H	2.02	0.57
1:F:782:ARG:NE	2:I:53:PRO:HD3	2.17	0.57
2:H:108:CYS:SG	2:H:118:VAL:HG22	2.44	0.57
2:H:416:LYS:HZ2	2:H:433:ASN:HB2	1.70	0.57
2:I:99:PRO:HD2	2:I:449:LEU:CD1	2.34	0.57
2:I:132:TRP:HD1	2:I:202:ARG:CD	2.17	0.57
2:I:360:THR:HG22	2:I:365:VAL:CG1	2.33	0.57
2:J:418:THR:HG22	2:J:422:THR:O	2.04	0.57
2:K:291:HIS:HD2	2:K:392:ALA:CB	2.16	0.57
2:K:417:VAL:HG11	2:K:421:GLY:HA2	1.86	0.57
2:L:114:THR:HG23	2:L:115:HIS:H	1.69	0.57
1:A:260:MET:O	1:A:263:LEU:CB	2.52	0.57
1:A:582:LEU:O	1:A:585:ALA:HB3	2.03	0.57
1:A:652:THR:CG2	1:A:703:GLY:HA3	2.35	0.57
1:A:876:ASN:CB	1:C:1227:GLU:OE2	2.52	0.57
1:B:387:PRO:CD	1:B:1344:GLU:OE2	2.47	0.57
1:B:403:ASP:OD1	1:B:403:ASP:C	2.46	0.57
1:B:648:GLU:O	1:B:648:GLU:CG	2.51	0.57
1:B:757:LYS:HE2	1:B:1176:GLU:OE2	2.04	0.57
1:C:447:LEU:HD12	1:C:447:LEU:O	2.04	0.57
1:C:515:ARG:NE	1:C:1367:TYR:HE1	1.99	0.57
1:C:1219:ALA:O	1:C:1220:ARG:C	2.47	0.57
1:C:1282:GLN:CA	1:C:1302:GLY:O	2.52	0.57
1:D:295:LYS:HE2	1:D:299:VAL:CG1	2.35	0.57
1:E:102:TYR:HA	1:E:136:ASN:OD1	2.04	0.57
1:E:250:ARG:NH1	1:E:530:GLY:HA2	2.20	0.57
1:E:582:LEU:O	1:E:585:ALA:HB3	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1374:VAL:C	1:E:1375:ILE:HG13	2.28	0.57
1:E:1398:ASP:O	1:E:1399:ASP:C	2.47	0.57
1:F:31:ARG:NH1	1:F:368:GLU:OE1	2.37	0.57
1:F:1274:GLN:NE2	1:F:1293:ASN:HB3	2.17	0.57
2:H:153:ILE:HG12	2:H:220:VAL:CG2	2.34	0.57
2:H:291:HIS:HD2	2:H:392:ALA:CB	2.16	0.57
2:I:114:THR:HG23	2:I:115:HIS:H	1.69	0.57
2:J:71:LEU:CD1	2:J:80:ALA:H	2.17	0.57
2:J:321:ARG:HB2	2:J:351:GLU:CB	2.35	0.57
2:K:430:LYS:HD2	2:K:460:ALA:HB2	1.82	0.57
2:K:430:LYS:CE	2:K:440:ALA:HB2	2.32	0.57
2:K:449:LEU:HD11	2:K:451:VAL:CG1	2.31	0.57
1:A:457:THR:O	1:A:460:ASP:HB2	2.04	0.57
1:A:753:GLY:O	1:A:754:ILE:C	2.46	0.57
1:A:893:ARG:HG2	1:A:903:TRP:HB2	1.85	0.57
1:A:950:THR:CG2	1:A:952:MET:H	2.15	0.57
1:B:1:CYS:SG	1:B:211:TYR:HB2	2.45	0.57
1:B:997:THR:HG22	1:B:998:VAL:N	2.19	0.57
1:B:1336:LEU:HB3	1:B:1355:VAL:HG13	1.84	0.57
1:C:139:VAL:HG12	1:C:143:GLN:HB2	1.87	0.57
1:C:236:THR:HG23	1:C:240:ASN:HD21	1.69	0.57
1:C:293:MET:HG2	1:C:410:LEU:CD2	2.35	0.57
1:C:547:SER:C	1:C:549:VAL:N	2.58	0.57
1:C:729:GLY:C	1:C:748:GLY:HA3	2.29	0.57
1:C:1251:THR:OG1	1:C:1281:VAL:HG11	2.04	0.57
1:D:116:ILE:HD13	1:D:190:THR:CG2	2.35	0.57
1:D:1228:LYS:H	1:F:901:ASP:HA	1.69	0.57
1:D:1366:GLU:CG	1:D:1367:TYR:CD2	2.84	0.57
1:D:1432:VAL:O	1:D:1433:THR:C	2.45	0.57
1:E:251:MET:SD	1:E:532:ILE:HD11	2.44	0.57
1:F:235:ASN:ND2	1:F:328:ASP:O	2.38	0.57
2:G:178:ARG:HD3	2:G:219:GLU:OE1	2.04	0.57
2:H:132:TRP:HD1	2:H:202:ARG:CD	2.17	0.57
2:I:100:GLN:HA	2:I:100:GLN:NE2	2.17	0.57
2:I:321:ARG:HB2	2:I:351:GLU:CB	2.35	0.57
2:I:365:VAL:CG2	2:I:366:ARG:HG3	2.31	0.57
2:J:153:ILE:HG12	2:J:220:VAL:CG2	2.33	0.57
2:K:71:LEU:CD1	2:K:80:ALA:H	2.17	0.57
2:K:175:VAL:HG12	2:K:213:ILE:O	2.04	0.57
2:K:190:ILE:HG23	2:K:191:PRO:HD2	1.84	0.57
2:K:257:ASN:ND2	2:K:394:LEU:HA	2.19	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:49:GLN:OE1	2:L:66:PRO:HA	2.04	0.57
2:L:77:LEU:HD22	2:L:130:THR:OG1	2.04	0.57
1:A:89:CYS:O	1:A:93:VAL:HG23	2.03	0.57
1:A:558:MET:O	1:A:560:ASP:N	2.36	0.57
1:B:484:PRO:HG3	1:B:823:MET:HG3	1.85	0.57
1:B:731:SER:N	1:B:748:GLY:H	2.02	0.57
1:B:1122:ASP:O	1:B:1126:GLN:HG3	2.05	0.57
1:C:102:TYR:CE2	1:C:144:PHE:CD1	2.93	0.57
1:C:957:ARG:HD2	1:C:965:LEU:HD12	1.87	0.57
1:D:80:ARG:HD3	1:D:125:ARG:O	2.05	0.57
1:D:607:THR:HB	1:D:645:ARG:HB2	1.86	0.57
1:D:997:THR:HG22	1:D:998:VAL:N	2.19	0.57
1:E:734:LEU:HD12	1:E:734:LEU:O	2.04	0.57
1:F:1210:THR:HG22	1:F:1211:LEU:N	2.09	0.57
1:F:1220:ARG:N	1:F:1221:PRO:CD	2.67	0.57
2:G:304:CYS:O	2:G:307:THR:HG23	2.05	0.57
2:H:110:ILE:HB	2:H:115:HIS:CE1	2.40	0.57
2:H:178:ARG:HD3	2:H:219:GLU:OE1	2.04	0.57
2:I:175:VAL:HG12	2:I:213:ILE:O	2.04	0.57
2:J:114:THR:HG23	2:J:115:HIS:H	1.69	0.57
2:J:138:LYS:HE3	2:J:164:GLU:OE2	2.04	0.57
2:J:178:ARG:HD3	2:J:219:GLU:OE1	2.04	0.57
2:J:387:GLU:HG2	2:J:388:PHE:N	2.17	0.57
2:K:64:ASN:ND2	2:K:67:ASP:HB2	2.20	0.57
2:K:77:LEU:HD22	2:K:130:THR:OG1	2.04	0.57
2:L:64:ASN:ND2	2:L:67:ASP:HB2	2.20	0.57
2:L:181:ARG:C	2:L:181:ARG:HD2	2.28	0.57
2:L:291:HIS:CE1	2:L:317:LYS:HB3	2.38	0.57
2:L:321:ARG:HD3	2:L:322:ARG:HB2	1.86	0.57
1:A:244:MET:O	1:A:245:LYS:C	2.44	0.57
1:A:250:ARG:NH1	1:A:530:GLY:HA2	2.20	0.57
1:A:1135:VAL:O	1:A:1136:VAL:C	2.44	0.57
1:A:1388:THR:O	1:A:1388:THR:HG23	2.01	0.57
1:B:235:ASN:ND2	1:B:328:ASP:O	2.38	0.57
1:B:295:LYS:HZ3	1:B:299:VAL:HG12	1.69	0.57
1:B:797:THR:HG21	1:B:812:LYS:HG2	1.86	0.57
1:C:652:THR:CG2	1:C:703:GLY:HA3	2.34	0.57
1:C:787:ARG:HH12	1:C:821:PRO:CB	2.17	0.57
1:D:782:ARG:HH21	2:H:51:GLY:HA3	0.69	0.57
1:E:61:VAL:CG1	1:E:61:VAL:O	2.51	0.57
1:E:119:GLU:O	1:E:120:LYS:C	2.47	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:652:THR:CG2	1:E:703:GLY:HA3	2.35	0.57
1:E:838:VAL:HG12	1:E:839:PRO:CD	2.32	0.57
1:E:1288:VAL:HG12	1:E:1288:VAL:O	2.05	0.57
1:F:607:THR:HB	1:F:645:ARG:HB2	1.86	0.57
1:F:676:ALA:O	1:F:677:GLU:C	2.45	0.57
1:F:823:MET:O	1:F:824:GLN:NE2	2.37	0.57
1:F:1366:GLU:CG	1:F:1367:TYR:CD2	2.84	0.57
1:F:1442:GLU:HA	2:G:373:ASP:OD2	2.04	0.57
2:G:89:ASN:C	2:G:91:PRO:HD3	2.30	0.57
2:G:108:CYS:SG	2:G:118:VAL:HG22	2.44	0.57
2:G:320:TYR:CD2	2:G:346:TRP:CD2	2.92	0.57
2:H:71:LEU:CD1	2:H:80:ALA:H	2.17	0.57
2:H:89:ASN:C	2:H:91:PRO:HD3	2.30	0.57
2:H:320:TYR:CD2	2:H:346:TRP:CD2	2.93	0.57
2:H:321:ARG:HD3	2:H:322:ARG:HB2	1.86	0.57
2:I:89:ASN:OD1	2:I:164:GLU:HB3	2.05	0.57
2:J:89:ASN:OD1	2:J:164:GLU:HB3	2.05	0.57
2:J:108:CYS:SG	2:J:118:VAL:HG22	2.44	0.57
2:K:89:ASN:C	2:K:91:PRO:HD3	2.30	0.57
2:K:90:PHE:HB3	2:K:93:ILE:HG22	1.86	0.57
2:K:110:ILE:HB	2:K:115:HIS:CE1	2.40	0.57
2:K:230:ARG:HE	2:K:434:MET:HE1	1.69	0.57
2:L:89:ASN:C	2:L:91:PRO:HD3	2.30	0.57
2:L:89:ASN:OD1	2:L:164:GLU:HB3	2.05	0.57
1:A:481:ASP:OD1	1:A:481:ASP:C	2.44	0.57
1:A:560:ASP:O	1:A:562:MET:N	2.38	0.57
1:A:657:VAL:O	1:A:658:LEU:C	2.48	0.57
1:A:1285:LYS:HA	1:A:1304:THR:O	2.04	0.57
1:B:227:MET:HE2	1:B:282:GLU:HG2	1.86	0.57
1:B:594:GLU:OE1	1:B:598:ARG:NH2	2.34	0.57
1:B:1442:GLU:HA	2:H:373:ASP:OD2	2.04	0.57
1:C:251:MET:SD	1:C:532:ILE:HD11	2.44	0.57
1:C:551:THR:HG23	1:C:554:GLU:OE2	2.05	0.57
1:C:560:ASP:O	1:C:562:MET:N	2.38	0.57
1:C:594:GLU:O	1:C:595:ASP:C	2.48	0.57
1:C:894:PHE:CE2	1:C:924:GLN:HG3	2.40	0.57
1:D:403:ASP:OD1	1:D:403:ASP:C	2.46	0.57
1:D:555:PHE:C	1:D:555:PHE:HD1	2.11	0.57
1:D:572:THR:HG23	1:D:573:PHE:N	2.16	0.57
1:E:45:GLY:HA3	1:E:224:PRO:HD2	1.85	0.57
1:E:102:TYR:CE2	1:E:144:PHE:CD1	2.93	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:950:THR:HG23	1:F:951:GLU:H	1.69	0.57
2:H:277:VAL:HG12	2:H:279:ALA:H	1.68	0.57
2:H:417:VAL:HG11	2:H:421:GLY:HA2	1.86	0.57
2:H:430:LYS:CE	2:H:440:ALA:HB2	2.32	0.57
2:H:432:THR:HG22	2:H:434:MET:N	2.15	0.57
2:J:99:PRO:HD2	2:J:449:LEU:CD1	2.34	0.57
2:J:320:TYR:CD2	2:J:346:TRP:CD2	2.92	0.57
1:A:957:ARG:HD2	1:A:965:LEU:HD12	1.87	0.57
1:A:1075:THR:CG2	1:A:1076:GLY:N	2.66	0.57
1:B:589:ILE:HD12	1:B:627:VAL:HG23	1.85	0.57
1:B:1131:THR:CG2	1:B:1133:GLU:OE1	2.42	0.57
1:B:1406:ASN:OD1	1:B:1406:ASN:C	2.48	0.57
1:B:1420:TYR:O	1:B:1421:GLU:C	2.46	0.57
1:C:753:GLY:O	1:C:754:ILE:C	2.46	0.57
1:C:857:GLY:HA2	1:C:883:ASP:O	2.05	0.57
1:D:211:TYR:O	1:D:212:SER:HB3	2.04	0.57
1:D:227:MET:HE2	1:D:282:GLU:HG2	1.86	0.57
1:D:777:GLY:O	1:D:788:HIS:CE1	2.51	0.57
1:D:846:ILE:O	1:D:847:THR:C	2.48	0.57
1:E:291:ALA:HB3	1:E:292:PRO:CD	2.27	0.57
1:E:293:MET:HG2	1:E:410:LEU:CD2	2.35	0.57
1:E:457:THR:O	1:E:460:ASP:HB2	2.04	0.57
1:E:729:GLY:C	1:E:748:GLY:HA3	2.29	0.57
1:E:913:GLY:O	1:E:915:PHE:N	2.35	0.57
1:E:1335:LYS:HA	1:E:1354:THR:O	2.05	0.57
1:F:116:ILE:HD13	1:F:190:THR:CG2	2.35	0.57
1:F:797:THR:HG21	1:F:812:LYS:HG2	1.86	0.57
2:G:64:ASN:ND2	2:G:67:ASP:HB2	2.20	0.57
2:G:321:ARG:HB2	2:G:351:GLU:CB	2.35	0.57
2:G:366:ARG:NE	2:G:391:GLN:HG2	2.14	0.57
2:I:440:ALA:HB1	2:I:456:ASP:HB2	1.85	0.57
2:J:77:LEU:HD22	2:J:130:THR:OG1	2.04	0.57
2:J:102:ARG:C	2:J:103:LEU:HD23	2.30	0.57
2:J:110:ILE:HB	2:J:115:HIS:CE1	2.40	0.57
2:K:114:THR:HG23	2:K:115:HIS:H	1.69	0.57
2:K:432:THR:HG22	2:K:434:MET:N	2.15	0.57
1:A:447:LEU:HD12	1:A:447:LEU:O	2.04	0.57
1:A:781:PHE:CE2	2:J:57:VAL:CG2	2.82	0.57
1:A:825:LEU:HD12	1:A:1186:ARG:NH1	2.13	0.57
1:A:902:ASN:CA	1:C:1227:GLU:HG2	2.23	0.57
1:A:1227:GLU:OE2	1:E:876:ASN:CB	2.52	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1335:LYS:HA	1:A:1354:THR:O	2.05	0.57
1:B:528:ASN:HB2	1:B:542:LEU:HD22	1.86	0.57
1:B:666:VAL:HG12	1:B:667:ASN:N	2.19	0.57
1:C:1335:LYS:HA	1:C:1354:THR:O	2.05	0.57
1:D:693:MET:O	1:D:694:ALA:C	2.45	0.57
1:D:823:MET:O	1:D:824:GLN:NE2	2.37	0.57
1:D:1122:ASP:O	1:D:1126:GLN:HG3	2.05	0.57
1:D:1316:GLU:O	1:D:1317:THR:C	2.46	0.57
1:D:1420:TYR:O	1:D:1421:GLU:C	2.46	0.57
1:E:570:ASP:OD1	1:E:572:THR:HB	2.04	0.57
1:F:1:CYS:SG	1:F:211:TYR:HB2	2.45	0.57
1:F:211:TYR:O	1:F:212:SER:HB3	2.04	0.57
1:F:918:THR:O	1:F:919:ALA:C	2.42	0.57
2:G:416:LYS:HZ2	2:G:433:ASN:HB2	1.70	0.57
2:G:418:THR:HG22	2:G:422:THR:O	2.04	0.57
2:H:304:CYS:O	2:H:307:THR:HG23	2.05	0.57
2:H:321:ARG:HB2	2:H:351:GLU:CB	2.35	0.57
2:I:64:ASN:ND2	2:I:67:ASP:HB2	2.20	0.57
2:I:102:ARG:C	2:I:103:LEU:HD23	2.30	0.57
2:I:304:CYS:O	2:I:307:THR:HG23	2.05	0.57
2:I:418:THR:HG22	2:I:422:THR:O	2.04	0.57
2:J:321:ARG:HD3	2:J:322:ARG:HB2	1.86	0.57
2:J:440:ALA:HB1	2:J:456:ASP:HB2	1.85	0.57
2:K:102:ARG:C	2:K:103:LEU:HD23	2.30	0.57
2:K:304:CYS:O	2:K:307:THR:HG23	2.05	0.57
2:L:320:TYR:CD2	2:L:346:TRP:CD2	2.93	0.57
2:L:418:THR:HG22	2:L:422:THR:O	2.04	0.57
1:B:116:ILE:HD13	1:B:190:THR:CG2	2.35	0.56
1:B:209:GLN:HG3	1:B:210:ARG:N	2.20	0.56
1:B:657:VAL:HG12	1:B:658:LEU:N	2.15	0.56
1:B:1221:PRO:CD	1:B:1229:MET:HE1	2.26	0.56
1:B:1393:TYR:CD2	1:B:1424:LEU:HD12	2.40	0.56
4:B:2474:FMN:O4'	4:B:2474:FMN:H9	2.05	0.56
1:C:18:VAL:O	1:C:19:GLU:C	2.42	0.56
1:C:447:LEU:HD13	1:C:670:LEU:CD2	2.33	0.56
1:C:893:ARG:HG2	1:C:903:TRP:HB2	1.85	0.56
1:D:78:LEU:HB3	1:D:79:PRO:HD2	1.86	0.56
1:D:528:ASN:HB2	1:D:542:LEU:HD22	1.86	0.56
4:D:2474:FMN:O4'	4:D:2474:FMN:H9	2.05	0.56
1:E:560:ASP:O	1:E:562:MET:N	2.38	0.56
1:E:857:GLY:HA2	1:E:883:ASP:O	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:110:ILE:HB	2:G:115:HIS:CE1	2.40	0.56
2:G:230:ARG:HE	2:G:434:MET:HE1	1.69	0.56
2:I:49:GLN:OE1	2:I:66:PRO:HA	2.04	0.56
2:I:246:ARG:HD3	2:I:399:LEU:CB	2.33	0.56
2:I:320:TYR:CD2	2:I:346:TRP:CD2	2.92	0.56
2:I:321:ARG:HD3	2:I:322:ARG:HB2	1.86	0.56
2:J:175:VAL:HG12	2:J:213:ILE:O	2.04	0.56
2:K:49:GLN:OE1	2:K:66:PRO:HA	2.04	0.56
2:K:320:TYR:CD2	2:K:346:TRP:CD2	2.92	0.56
1:A:85:ALA:O	1:A:86:GLN:C	2.48	0.56
1:A:236:THR:HG23	1:A:240:ASN:HD21	1.69	0.56
1:A:1251:THR:OG1	1:A:1281:VAL:HG11	2.04	0.56
1:B:950:THR:HG23	1:B:951:GLU:H	1.69	0.56
1:C:139:VAL:CG1	1:C:143:GLN:CB	2.81	0.56
1:C:711:MET:O	1:C:713:ILE:HG13	2.06	0.56
1:C:732:ARG:HD2	1:D:94:GLU:OE1	2.06	0.56
1:C:1226:GLY:O	1:C:1227:GLU:O	2.23	0.56
1:C:1398:ASP:O	1:C:1399:ASP:C	2.47	0.56
1:D:731:SER:N	1:D:748:GLY:H	2.02	0.56
1:D:783:LYS:NZ	2:H:57:VAL:HG12	2.20	0.56
1:D:1348:VAL:O	1:D:1348:VAL:CG1	2.53	0.56
1:E:92:ILE:O	1:E:93:VAL:C	2.45	0.56
1:F:857:GLY:HA2	1:F:883:ASP:O	2.05	0.56
2:G:132:TRP:HD1	2:G:202:ARG:CD	2.17	0.56
2:G:174:HIS:ND1	2:G:213:ILE:HG22	2.21	0.56
2:G:264:TYR:O	2:G:267:THR:HG23	2.06	0.56
2:H:257:ASN:ND2	2:H:394:LEU:HA	2.19	0.56
2:I:230:ARG:HE	2:I:434:MET:HE1	1.69	0.56
2:I:257:ASN:ND2	2:I:394:LEU:HA	2.19	0.56
2:I:358:VAL:HG13	2:I:365:VAL:HG13	1.87	0.56
2:J:259:VAL:HG21	2:J:264:TYR:CB	2.14	0.56
2:J:304:CYS:O	2:J:307:THR:HG23	2.05	0.56
2:K:89:ASN:OD1	2:K:164:GLU:HB3	2.05	0.56
2:L:132:TRP:HD1	2:L:202:ARG:CD	2.17	0.56
2:L:257:ASN:ND2	2:L:394:LEU:HA	2.19	0.56
2:L:304:CYS:O	2:L:307:THR:HG23	2.05	0.56
2:L:321:ARG:O	2:L:351:GLU:HA	2.05	0.56
1:A:139:VAL:HG12	1:A:143:GLN:HB2	1.87	0.56
1:A:250:ARG:NE	1:A:639:PHE:CE1	2.73	0.56
1:A:560:ASP:O	1:A:561:TYR:C	2.46	0.56
1:A:734:LEU:HD12	1:A:734:LEU:O	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:961:PRO:O	1:A:963:VAL:N	2.39	0.56
1:A:1131:THR:CG2	1:A:1133:GLU:OE1	2.54	0.56
1:A:1143:ALA:O	1:A:1144:GLU:C	2.45	0.56
1:A:1226:GLY:O	1:A:1227:GLU:O	2.23	0.56
1:B:3:VAL:CG2	1:B:231:ASN:HB2	2.36	0.56
1:B:148:LEU:HD22	1:B:172:LEU:HG	1.87	0.56
1:B:295:LYS:HE2	1:B:299:VAL:CG1	2.35	0.56
1:B:526:LEU:HD12	1:B:526:LEU:H	1.66	0.56
1:B:826:ARG:NH1	1:B:826:ARG:CG	2.67	0.56
1:B:901:ASP:HA	1:F:1228:LYS:H	1.69	0.56
1:B:1247:SER:OG	1:B:1280:ALA:HA	2.04	0.56
1:C:45:GLY:HA3	1:C:224:PRO:HD2	1.85	0.56
1:C:236:THR:HG23	1:C:240:ASN:ND2	2.19	0.56
1:C:248:GLU:C	1:C:250:ARG:H	2.13	0.56
1:C:296:MET:O	1:C:297:MET:C	2.40	0.56
1:C:1010:ALA:HB2	1:C:1052:VAL:HG22	1.88	0.56
1:C:1163:GLY:O	1:C:1165:THR:N	2.39	0.56
1:C:1424:LEU:O	1:C:1425:LYS:C	2.48	0.56
1:D:235:ASN:ND2	1:D:328:ASP:O	2.38	0.56
1:D:239:GLY:O	1:D:243:TRP:CD1	2.59	0.56
1:D:763:ALA:O	1:D:764:THR:C	2.48	0.56
1:D:950:THR:HG23	1:D:951:GLU:H	1.69	0.56
1:D:1050:SER:O	1:D:1051:GLU:C	2.46	0.56
1:E:139:VAL:HG12	1:E:143:GLN:HB2	1.87	0.56
1:E:250:ARG:NE	1:E:639:PHE:CE1	2.73	0.56
1:E:430:VAL:HG11	1:E:554:GLU:HB2	1.88	0.56
1:E:551:THR:HG23	1:E:554:GLU:OE2	2.05	0.56
1:E:560:ASP:O	1:E:561:TYR:C	2.46	0.56
1:E:594:GLU:O	1:E:595:ASP:C	2.48	0.56
1:E:710:LYS:CG	1:E:939:GLY:HA3	2.34	0.56
1:E:711:MET:O	1:E:713:ILE:HG13	2.06	0.56
1:E:782:ARG:C	1:E:784:SER:H	2.12	0.56
1:E:787:ARG:HH12	1:E:821:PRO:CB	2.17	0.56
1:E:961:PRO:O	1:E:963:VAL:N	2.39	0.56
1:E:969:PRO:HD2	1:E:970:PRO:HD2	1.88	0.56
1:E:1226:GLY:O	1:E:1227:GLU:O	2.23	0.56
1:F:239:GLY:O	1:F:243:TRP:CD1	2.59	0.56
1:F:466:HIS:HB3	1:F:467:PRO:HD3	1.87	0.56
1:F:505:GLN:NE2	1:F:1000:LEU:CB	2.59	0.56
1:F:1146:VAL:O	1:F:1147:ARG:C	2.46	0.56
1:F:1247:SER:OG	1:F:1280:ALA:HA	2.04	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1251:THR:OG1	1:F:1281:VAL:HG11	2.05	0.56
1:F:1348:VAL:O	1:F:1348:VAL:CG1	2.53	0.56
2:G:430:LYS:CE	2:G:440:ALA:HB2	2.32	0.56
2:H:127:ILE:HG23	2:H:128:ASN:H	1.70	0.56
2:H:225:SER:HB3	2:H:227:PRO:CD	2.23	0.56
2:H:230:ARG:HE	2:H:434:MET:HE1	1.69	0.56
2:H:250:ALA:HB1	2:H:251:PRO:CD	2.33	0.56
2:H:278:GLU:CD	2:H:278:GLU:H	2.13	0.56
2:I:110:ILE:HB	2:I:115:HIS:CE1	2.40	0.56
2:I:127:ILE:HG23	2:I:128:ASN:H	1.70	0.56
2:I:174:HIS:ND1	2:I:213:ILE:HG22	2.21	0.56
2:I:350:PRO:HD3	2:I:374:ALA:HB2	1.88	0.56
2:J:89:ASN:C	2:J:91:PRO:HD3	2.30	0.56
2:J:127:ILE:HG23	2:J:128:ASN:H	1.70	0.56
2:J:174:HIS:ND1	2:J:213:ILE:HG22	2.21	0.56
2:J:246:ARG:HD3	2:J:399:LEU:CB	2.33	0.56
2:J:250:ALA:HB1	2:J:251:PRO:CD	2.33	0.56
2:K:127:ILE:HG23	2:K:128:ASN:H	1.70	0.56
2:K:132:TRP:HD1	2:K:202:ARG:CD	2.17	0.56
2:K:278:GLU:CD	2:K:278:GLU:H	2.13	0.56
2:L:246:ARG:HD3	2:L:399:LEU:CB	2.33	0.56
2:L:321:ARG:HB2	2:L:351:GLU:CB	2.35	0.56
2:L:358:VAL:HG11	2:L:366:ARG:HB2	1.88	0.56
2:L:440:ALA:HB1	2:L:456:ASP:HB2	1.85	0.56
1:B:782:ARG:HB3	2:G:53:PRO:HD2	1.80	0.56
1:C:5:PHE:O	1:C:365:GLY:N	2.34	0.56
1:D:1222:LEU:C	1:D:1222:LEU:HD12	2.24	0.56
4:D:2474:FMN:O4'	4:D:2474:FMN:C1'	2.10	0.56
1:E:937:LYS:HE3	1:E:1033:SER:CB	2.34	0.56
1:E:1336:LEU:HB3	1:E:1355:VAL:HG13	1.88	0.56
1:F:777:GLY:CA	2:I:52:VAL:HG13	2.12	0.56
1:F:1322:ILE:HG23	1:F:1323:ILE:HG23	1.88	0.56
1:F:1366:GLU:HG2	1:F:1367:TYR:CE2	2.41	0.56
1:F:1388:THR:O	1:F:1388:THR:HG23	2.06	0.56
2:G:257:ASN:ND2	2:G:394:LEU:HA	2.19	0.56
2:G:266:THR:HG23	2:G:270:LYS:HZ2	1.70	0.56
2:G:321:ARG:HD3	2:G:322:ARG:HB2	1.86	0.56
2:G:322:ARG:CD	2:G:326:ASN:HD21	2.19	0.56
2:I:89:ASN:C	2:I:91:PRO:HD3	2.30	0.56
2:J:64:ASN:ND2	2:J:67:ASP:HB2	2.20	0.56
2:J:230:ARG:HE	2:J:434:MET:HE1	1.69	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:264:TYR:O	2:J:267:THR:HG23	2.06	0.56
2:K:166:LEU:CD2	2:K:461:ALA:HB1	2.31	0.56
1:A:294:VAL:O	1:A:295:LYS:C	2.47	0.56
1:A:409:HIS:O	1:A:413:LEU:HD23	2.06	0.56
1:A:782:ARG:C	1:A:784:SER:H	2.12	0.56
1:A:969:PRO:HD2	1:A:970:PRO:HD2	1.88	0.56
1:A:1425:LYS:CD	1:A:1447:TRP:CE2	2.86	0.56
1:B:211:TYR:O	1:B:212:SER:HB3	2.04	0.56
1:B:570:ASP:OD1	1:B:572:THR:N	2.38	0.56
1:B:1348:VAL:O	1:B:1348:VAL:CG1	2.53	0.56
1:C:15:ARG:HD2	1:C:200:PHE:O	2.05	0.56
1:C:235:ASN:ND2	1:C:236:THR:N	2.38	0.56
1:C:969:PRO:HD2	1:C:970:PRO:HD2	1.88	0.56
1:D:209:GLN:HG3	1:D:210:ARG:N	2.20	0.56
1:D:515:ARG:NH2	1:D:966:ILE:HB	2.16	0.56
1:D:1093:GLY:O	1:D:1096:SER:N	2.39	0.56
1:D:1322:ILE:HG23	1:D:1323:ILE:HG23	1.88	0.56
1:D:1393:TYR:CD2	1:D:1424:LEU:HD12	2.40	0.56
1:E:15:ARG:HD2	1:E:200:PHE:O	2.06	0.56
1:E:248:GLU:C	1:E:250:ARG:H	2.13	0.56
1:E:711:MET:O	1:E:713:ILE:N	2.39	0.56
1:E:732:ARG:HD2	1:F:94:GLU:OE1	2.06	0.56
1:E:894:PHE:CE2	1:E:924:GLN:HG3	2.40	0.56
1:E:1143:ALA:O	1:E:1144:GLU:C	2.45	0.56
1:E:1216:VAL:HG13	1:E:1249:MET:HE2	1.86	0.56
1:F:1122:ASP:O	1:F:1126:GLN:HG3	2.05	0.56
2:G:89:ASN:OD1	2:G:164:GLU:HB3	2.05	0.56
2:G:250:ALA:HB1	2:G:251:PRO:CD	2.33	0.56
2:G:321:ARG:O	2:G:351:GLU:HA	2.05	0.56
2:G:327:MET:HB2	2:G:346:TRP:HZ2	1.65	0.56
2:G:417:VAL:HG11	2:G:421:GLY:HA2	1.85	0.56
2:H:64:ASN:ND2	2:H:67:ASP:HB2	2.20	0.56
2:I:77:LEU:HD22	2:I:130:THR:OG1	2.04	0.56
2:J:321:ARG:O	2:J:351:GLU:HA	2.05	0.56
2:K:416:LYS:HE3	2:K:433:ASN:HB2	1.88	0.56
2:K:416:LYS:HZ2	2:K:433:ASN:HB2	1.71	0.56
2:L:277:VAL:HG12	2:L:279:ALA:H	1.68	0.56
1:A:102:TYR:CE2	1:A:144:PHE:CD1	2.93	0.56
1:A:235:ASN:ND2	1:A:236:THR:N	2.38	0.56
1:A:252:GLU:HA	1:A:260:MET:HE3	1.87	0.56
1:A:838:VAL:HG12	1:A:839:PRO:CD	2.32	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1010:ALA:HB2	1:A:1052:VAL:HG22	1.88	0.56
1:A:1054:GLN:O	1:A:1057:THR:N	2.39	0.56
1:A:1163:GLY:O	1:A:1165:THR:N	2.39	0.56
1:A:1288:VAL:HG12	1:A:1288:VAL:O	2.05	0.56
1:B:182:MET:CE	1:B:217:PRO:HB3	1.95	0.56
1:B:466:HIS:ND1	1:B:678:ARG:NH1	2.53	0.56
1:B:823:MET:O	1:B:824:GLN:NE2	2.37	0.56
1:C:291:ALA:HB3	1:C:292:PRO:CD	2.27	0.56
1:C:657:VAL:O	1:C:658:LEU:C	2.48	0.56
1:D:37:ASP:OD1	1:D:38:GLY:N	2.38	0.56
1:D:918:THR:HG23	1:D:1256:MET:CE	2.36	0.56
1:E:466:HIS:ND1	1:E:678:ARG:NH1	2.46	0.56
1:E:1135:VAL:O	1:E:1136:VAL:C	2.44	0.56
1:F:148:LEU:HD22	1:F:172:LEU:HG	1.87	0.56
1:F:913:GLY:HA2	1:F:1349:ARG:CD	2.27	0.56
1:F:1093:GLY:O	1:F:1096:SER:N	2.39	0.56
2:H:138:LYS:HE3	2:H:164:GLU:OE2	2.04	0.56
2:J:186:LEU:HD23	2:J:195:LEU:HD11	1.88	0.56
2:J:189:GLY:O	2:J:265:LEU:HD13	2.03	0.56
2:J:358:VAL:HG13	2:J:365:VAL:HG13	1.87	0.56
2:K:122:SER:HA	2:K:125:LYS:CE	2.36	0.56
2:K:305:VAL:HG22	2:K:316:VAL:HG11	1.88	0.56
2:K:322:ARG:CD	2:K:326:ASN:HD21	2.19	0.56
2:L:90:PHE:HB3	2:L:93:ILE:HG22	1.86	0.56
2:L:110:ILE:HB	2:L:115:HIS:CE1	2.40	0.56
2:L:174:HIS:ND1	2:L:213:ILE:HG22	2.21	0.56
1:A:392:ALA:O	1:A:400:LEU:CD1	2.53	0.56
1:A:1305:ILE:O	1:A:1336:LEU:HD12	2.06	0.56
1:B:913:GLY:HA2	1:B:1349:ARG:CD	2.27	0.56
1:C:240:ASN:HB3	1:C:327:TRP:CZ2	2.41	0.56
1:C:556:ARG:O	1:C:557:ALA:C	2.44	0.56
1:D:449:ARG:HD3	1:D:765:ALA:O	2.06	0.56
1:D:628:HIS:O	1:D:629:THR:C	2.47	0.56
1:D:1075:THR:HG23	1:D:1145:GLU:OE2	2.06	0.56
1:D:1406:ASN:OD1	1:D:1406:ASN:C	2.48	0.56
1:E:5:PHE:O	1:E:365:GLY:N	2.34	0.56
1:E:252:GLU:HA	1:E:260:MET:HE3	1.87	0.56
1:E:828:LEU:HD23	1:E:1172:SER:HB2	1.85	0.56
1:E:1438:ARG:HG3	2:K:376:GLY:HA2	0.58	0.56
1:F:295:LYS:HE2	1:F:299:VAL:CG1	2.35	0.56
1:F:628:HIS:O	1:F:629:THR:C	2.47	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:670:LEU:HD22	1:F:670:LEU:C	2.31	0.56
2:G:317:LYS:HE3	2:G:345:ILE:CD1	2.36	0.56
2:H:122:SER:HA	2:H:125:LYS:CE	2.36	0.56
2:H:418:THR:CB	2:H:424:LEU:HD11	2.23	0.56
2:I:264:TYR:O	2:I:267:THR:HG23	2.06	0.56
2:I:317:LYS:HE3	2:I:345:ILE:CD1	2.36	0.56
2:K:174:HIS:ND1	2:K:213:ILE:HG22	2.21	0.56
2:K:186:LEU:HD23	2:K:195:LEU:HD11	1.88	0.56
2:K:321:ARG:HB2	2:K:351:GLU:CB	2.35	0.56
2:L:102:ARG:C	2:L:103:LEU:HD23	2.30	0.56
2:L:230:ARG:HE	2:L:434:MET:HE1	1.69	0.56
2:L:278:GLU:CD	2:L:278:GLU:H	2.13	0.56
2:L:322:ARG:CD	2:L:326:ASN:HD21	2.19	0.56
2:L:416:LYS:HE3	2:L:433:ASN:HB2	1.88	0.56
1:A:551:THR:HG23	1:A:554:GLU:OE2	2.05	0.56
1:A:594:GLU:O	1:A:595:ASP:C	2.48	0.56
1:A:621:ILE:HG12	1:A:657:VAL:CG1	2.36	0.56
1:B:572:THR:HG22	1:B:573:PHE:N	2.16	0.56
1:C:419:TRP:O	1:C:422:ASN:HB2	2.04	0.56
1:D:466:HIS:ND1	1:D:678:ARG:NH1	2.53	0.56
1:D:570:ASP:OD1	1:D:572:THR:N	2.39	0.56
1:D:857:GLY:HA2	1:D:883:ASP:O	2.05	0.56
1:E:1131:THR:CG2	1:E:1133:GLU:OE1	2.54	0.56
1:F:52:GLN:NE2	1:F:71:LEU:HB2	2.17	0.56
1:F:80:ARG:HD3	1:F:125:ARG:O	2.05	0.56
2:G:102:ARG:C	2:G:103:LEU:HD23	2.30	0.56
2:G:127:ILE:HG23	2:G:128:ASN:H	1.70	0.56
2:G:416:LYS:HE3	2:G:433:ASN:HB2	1.88	0.56
2:G:434:MET:HB2	2:G:437:VAL:HG11	1.87	0.56
2:I:181:ARG:C	2:I:181:ARG:HH11	2.14	0.56
2:I:432:THR:HG22	2:I:434:MET:N	2.15	0.56
2:J:278:GLU:CD	2:J:278:GLU:H	2.13	0.56
2:J:358:VAL:HG11	2:J:366:ARG:HB2	1.88	0.56
2:K:264:TYR:O	2:K:267:THR:HG23	2.06	0.56
1:A:51:PRO:HG3	1:A:200:PHE:CE2	2.41	0.56
1:A:236:THR:HG23	1:A:240:ASN:ND2	2.19	0.56
1:A:293:MET:HG2	1:A:410:LEU:CD2	2.35	0.56
1:B:763:ALA:O	1:B:764:THR:C	2.48	0.56
1:B:913:GLY:CA	1:B:1349:ARG:HD3	2.27	0.56
1:B:1322:ILE:HG23	1:B:1323:ILE:HG23	1.88	0.56
1:C:61:VAL:O	1:C:61:VAL:CG1	2.51	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:386:GLY:H	1:C:389:GLU:HG3	1.71	0.56
1:C:1053:HIS:CE1	1:C:1062:ARG:HH11	2.24	0.56
1:D:782:ARG:NH2	2:H:51:GLY:HA2	0.72	0.56
1:F:209:GLN:HG3	1:F:210:ARG:N	2.20	0.56
1:F:783:LYS:NZ	2:I:57:VAL:HG12	2.20	0.56
1:F:867:ALA:HB1	1:F:1100:MET:HE1	1.87	0.56
1:F:913:GLY:CA	1:F:1349:ARG:HD3	2.27	0.56
2:G:278:GLU:CD	2:G:278:GLU:H	2.13	0.56
2:G:440:ALA:HB1	2:G:456:ASP:HB2	1.85	0.56
2:H:174:HIS:ND1	2:H:213:ILE:HG22	2.21	0.56
2:H:305:VAL:HG22	2:H:316:VAL:HG11	1.88	0.56
2:H:350:PRO:HD3	2:H:374:ALA:HB2	1.88	0.56
2:I:358:VAL:HG11	2:I:366:ARG:HB2	1.88	0.56
2:L:225:SER:HB3	2:L:227:PRO:CD	2.23	0.56
2:L:360:THR:HG22	2:L:365:VAL:HG11	1.88	0.56
2:L:449:LEU:HD11	2:L:451:VAL:CG1	2.31	0.56
1:A:37:ASP:OD2	1:A:40:THR:HB	2.06	0.56
1:A:171:SER:OG	1:A:177:ILE:HA	2.06	0.56
1:A:175:ARG:HH22	1:A:203:ASP:CG	2.14	0.56
1:A:754:ILE:O	1:A:755:GLN:C	2.48	0.56
1:A:894:PHE:CE2	1:A:924:GLN:HG3	2.40	0.56
1:A:1216:VAL:HG13	1:A:1249:MET:HE2	1.86	0.56
1:A:1230:GLN:O	1:A:1231:LEU:HD23	2.06	0.56
1:B:37:ASP:OD1	1:B:38:GLY:N	2.38	0.56
1:B:348:ASN:HB2	1:B:350:LEU:HG	1.88	0.56
1:B:351:ARG:HH12	1:B:978:GLU:CD	2.14	0.56
1:B:449:ARG:HD3	1:B:765:ALA:O	2.06	0.56
1:C:313:HIS:CD2	1:C:313:HIS:H	2.24	0.56
1:C:409:HIS:O	1:C:413:LEU:HD23	2.06	0.56
1:C:780:ARG:NH1	2:K:50:CYS:CB	2.56	0.56
1:C:913:GLY:O	1:C:915:PHE:N	2.35	0.56
1:C:1230:GLN:O	1:C:1231:LEU:HD23	2.06	0.56
1:D:494:GLY:O	1:D:495:LEU:C	2.48	0.56
1:D:797:THR:HG21	1:D:812:LYS:HG2	1.86	0.56
1:D:1146:VAL:O	1:D:1147:ARG:C	2.46	0.56
1:E:442:MET:HG2	1:E:446:GLU:HG2	1.88	0.56
1:F:162:GLU:HB3	1:F:164:ILE:HD12	1.88	0.56
1:F:466:HIS:ND1	1:F:678:ARG:NH1	2.53	0.56
1:F:494:GLY:O	1:F:495:LEU:C	2.48	0.56
1:F:1045:TRP:O	1:F:1046:GLU:C	2.44	0.56
1:F:1075:THR:HG23	1:F:1145:GLU:OE2	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:358:VAL:HG11	2:G:366:ARG:HB2	1.88	0.56
2:I:99:PRO:CD	2:I:449:LEU:HD13	2.36	0.56
2:J:416:LYS:HE3	2:J:433:ASN:HB2	1.88	0.56
2:K:45:ASN:HD21	2:K:45:ASN:N	2.04	0.56
2:K:96:ARG:HH21	2:K:199:VAL:CG2	2.19	0.56
2:K:225:SER:HB3	2:K:227:PRO:CD	2.23	0.56
2:K:238:VAL:HG23	2:K:439:ALA:HB2	1.87	0.56
2:K:250:ALA:HB1	2:K:251:PRO:CD	2.33	0.56
2:L:45:ASN:HD21	2:L:45:ASN:N	2.04	0.56
2:L:264:TYR:O	2:L:267:THR:HG23	2.06	0.56
1:A:15:ARG:HD2	1:A:200:PHE:O	2.05	0.55
1:A:828:LEU:HD23	1:A:1172:SER:HB2	1.85	0.55
1:A:1053:HIS:CE1	1:A:1062:ARG:HH11	2.24	0.55
1:B:867:ALA:HB1	1:B:1100:MET:HE1	1.87	0.55
1:B:1468:VAL:O	1:B:1468:VAL:HG12	2.07	0.55
1:C:51:PRO:HG3	1:C:200:PHE:CE2	2.41	0.55
1:C:155:ILE:O	1:C:159:VAL:HG23	2.07	0.55
1:C:754:ILE:O	1:C:755:GLN:C	2.48	0.55
1:C:813:TYR:O	1:C:816:GLN:HB2	2.06	0.55
1:C:1288:VAL:O	1:C:1288:VAL:HG12	2.05	0.55
1:D:3:VAL:CG2	1:D:231:ASN:HB2	2.36	0.55
1:D:116:ILE:HD13	1:D:190:THR:HG22	1.88	0.55
1:D:1051:GLU:O	1:D:1052:VAL:C	2.46	0.55
1:D:1068:ARG:NE	1:D:1089:GLU:OE1	2.38	0.55
1:E:409:HIS:O	1:E:413:LEU:HD23	2.06	0.55
1:E:1163:GLY:O	1:E:1165:THR:N	2.39	0.55
1:E:1450:GLU:OE1	1:E:1453:LYS:NZ	2.24	0.55
1:F:782:ARG:HH21	2:I:51:GLY:HA3	0.69	0.55
1:F:918:THR:HG23	1:F:1256:MET:CE	2.36	0.55
2:G:186:LEU:HD23	2:G:195:LEU:HD11	1.88	0.55
2:H:89:ASN:OD1	2:H:164:GLU:HB3	2.05	0.55
2:H:102:ARG:C	2:H:103:LEU:HD23	2.30	0.55
2:H:322:ARG:CD	2:H:326:ASN:HD21	2.19	0.55
2:H:360:THR:HG22	2:H:365:VAL:HG11	1.88	0.55
2:H:450:VAL:O	2:H:454:ILE:HG22	2.06	0.55
2:I:90:PHE:HB3	2:I:93:ILE:HG22	1.86	0.55
2:I:321:ARG:O	2:I:351:GLU:HA	2.05	0.55
2:I:350:PRO:CG	2:I:380:PRO:HA	2.36	0.55
2:I:416:LYS:HE3	2:I:433:ASN:HB2	1.88	0.55
2:J:31:ILE:HD12	2:J:31:ILE:C	2.31	0.55
2:J:360:THR:HG22	2:J:365:VAL:HG11	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:321:ARG:O	2:K:351:GLU:HA	2.05	0.55
1:A:711:MET:O	1:A:713:ILE:N	2.39	0.55
1:A:857:GLY:HA2	1:A:883:ASP:O	2.05	0.55
1:A:1438:ARG:CZ	2:L:376:GLY:C	2.80	0.55
1:B:437:GLY:O	1:B:438:GLU:C	2.48	0.55
1:B:466:HIS:HB3	1:B:467:PRO:HD3	1.87	0.55
1:B:777:GLY:O	1:B:788:HIS:CE1	2.51	0.55
1:B:918:THR:HG23	1:B:1256:MET:CE	2.36	0.55
1:B:1068:ARG:NE	1:B:1089:GLU:OE1	2.38	0.55
1:C:175:ARG:HH22	1:C:203:ASP:CG	2.14	0.55
1:C:711:MET:O	1:C:713:ILE:N	2.39	0.55
1:C:1438:ARG:HG3	2:J:376:GLY:HA2	0.58	0.55
1:E:35:ASP:HB3	1:E:37:ASP:H	1.71	0.55
1:E:37:ASP:OD2	1:E:40:THR:HB	2.06	0.55
1:E:240:ASN:HB3	1:E:327:TRP:CZ2	2.41	0.55
1:E:621:ILE:HG12	1:E:657:VAL:CG1	2.36	0.55
1:E:1054:GLN:O	1:E:1057:THR:N	2.39	0.55
1:F:3:VAL:CG2	1:F:231:ASN:HB2	2.36	0.55
1:F:337:ASP:OD1	1:F:337:ASP:C	2.49	0.55
1:F:449:ARG:HD3	1:F:765:ALA:O	2.06	0.55
1:F:515:ARG:CZ	1:F:1367:TYR:HE1	2.20	0.55
1:F:570:ASP:OD1	1:F:572:THR:N	2.38	0.55
2:H:416:LYS:HE3	2:H:433:ASN:HB2	1.88	0.55
2:I:250:ALA:CB	2:I:251:PRO:HD2	2.35	0.55
2:J:181:ARG:C	2:J:181:ARG:HH11	2.14	0.55
2:J:238:VAL:HG23	2:J:439:ALA:HB2	1.87	0.55
2:J:317:LYS:HE3	2:J:345:ILE:CD1	2.36	0.55
2:L:181:ARG:C	2:L:181:ARG:HH11	2.14	0.55
2:L:358:VAL:HG13	2:L:365:VAL:HG13	1.87	0.55
1:A:248:GLU:C	1:A:250:ARG:H	2.13	0.55
1:A:813:TYR:O	1:A:816:GLN:HB2	2.06	0.55
1:A:901:ASP:OD1	1:C:1228:LYS:HD3	2.06	0.55
1:A:901:ASP:CG	1:C:1228:LYS:HD3	2.32	0.55
1:A:937:LYS:HE3	1:A:1033:SER:CB	2.34	0.55
1:A:1263:HIS:CE1	1:E:900:GLY:HA2	2.31	0.55
1:B:52:GLN:NE2	1:B:71:LEU:HB2	2.17	0.55
1:B:116:ILE:HD13	1:B:190:THR:HG22	1.88	0.55
1:B:239:GLY:O	1:B:243:TRP:CD1	2.59	0.55
1:B:783:LYS:NZ	2:G:57:VAL:HG12	2.20	0.55
1:B:857:GLY:HA2	1:B:883:ASP:O	2.05	0.55
1:B:1177:HIS:CD2	1:B:1177:HIS:H	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1450:GLU:OE1	1:B:1453:LYS:NZ	2.23	0.55
1:C:244:MET:C	1:C:246:ALA:N	2.65	0.55
1:C:573:PHE:HB2	1:C:574:PRO:CD	2.36	0.55
1:D:985:TYR:CD1	1:D:1207:VAL:HG11	2.42	0.55
1:E:175:ARG:HH22	1:E:203:ASP:CG	2.14	0.55
1:E:657:VAL:O	1:E:658:LEU:C	2.48	0.55
1:E:1010:ALA:HB2	1:E:1052:VAL:HG22	1.88	0.55
1:E:1053:HIS:CE1	1:E:1062:ARG:HH11	2.24	0.55
1:E:1222:LEU:HD12	1:E:1222:LEU:O	2.07	0.55
1:E:1230:GLN:O	1:E:1231:LEU:HD23	2.06	0.55
1:E:1394:VAL:O	1:E:1394:VAL:CG1	2.55	0.55
1:F:235:ASN:HB3	1:F:508:ASN:ND2	2.22	0.55
1:F:828:LEU:HD22	1:F:1172:SER:CA	2.31	0.55
2:G:45:ASN:HD21	2:G:45:ASN:N	2.04	0.55
2:G:90:PHE:HB3	2:G:93:ILE:HG22	1.86	0.55
2:G:238:VAL:HG23	2:G:439:ALA:HB2	1.87	0.55
2:H:264:TYR:O	2:H:267:THR:HG23	2.06	0.55
2:H:321:ARG:O	2:H:351:GLU:HA	2.05	0.55
2:I:250:ALA:HB1	2:I:251:PRO:CD	2.33	0.55
2:I:278:GLU:CD	2:I:278:GLU:H	2.13	0.55
2:I:322:ARG:CD	2:I:326:ASN:HD21	2.19	0.55
2:I:434:MET:HB2	2:I:437:VAL:HG11	1.87	0.55
2:I:450:VAL:O	2:I:454:ILE:HG22	2.07	0.55
2:J:174:HIS:HE1	2:J:215:HIS:HB3	1.72	0.55
2:J:450:VAL:O	2:J:454:ILE:HG22	2.07	0.55
2:K:317:LYS:HE3	2:K:345:ILE:CD1	2.36	0.55
2:K:350:PRO:HD3	2:K:374:ALA:HB2	1.88	0.55
2:L:350:PRO:HD3	2:L:374:ALA:HB2	1.88	0.55
1:A:177:ILE:CD1	1:A:179:TYR:HE1	2.17	0.55
1:A:386:GLY:H	1:A:389:GLU:HG3	1.70	0.55
1:A:787:ARG:HH12	1:A:821:PRO:CB	2.17	0.55
1:A:1336:LEU:HB3	1:A:1355:VAL:HG13	1.88	0.55
1:B:80:ARG:HD3	1:B:125:ARG:O	2.05	0.55
1:B:235:ASN:HB3	1:B:508:ASN:ND2	2.22	0.55
1:B:515:ARG:CZ	1:B:1367:TYR:HE1	2.20	0.55
1:B:571:ALA:HB2	1:B:606:LEU:CD2	2.37	0.55
1:B:704:LEU:C	1:B:706:LYS:H	2.14	0.55
1:B:1093:GLY:O	1:B:1096:SER:N	2.39	0.55
1:C:251:MET:HE3	1:C:533:LEU:CD1	2.28	0.55
1:C:621:ILE:HG12	1:C:657:VAL:CG1	2.36	0.55
1:C:1054:GLN:O	1:C:1055:VAL:C	2.49	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:485:ILE:O	1:D:486:ALA:C	2.48	0.55
1:D:515:ARG:CZ	1:D:1367:TYR:HE1	2.20	0.55
1:D:556:ARG:O	1:D:557:ALA:C	2.48	0.55
1:D:693:MET:HA	1:D:693:MET:CE	2.27	0.55
1:D:1468:VAL:O	1:D:1468:VAL:HG12	2.07	0.55
1:E:51:PRO:HG3	1:E:200:PHE:CE2	2.41	0.55
1:E:629:THR:O	1:E:632:ILE:N	2.39	0.55
1:F:227:MET:HE2	1:F:282:GLU:CG	2.37	0.55
1:F:348:ASN:HB2	1:F:350:LEU:HG	1.89	0.55
1:F:710:LYS:HG2	1:F:939:GLY:CA	2.18	0.55
1:F:846:ILE:O	1:F:847:THR:C	2.48	0.55
4:F:2474:FMN:O4'	4:F:2474:FMN:H9	2.05	0.55
2:G:360:THR:HG22	2:G:365:VAL:HG11	1.88	0.55
2:H:197:LYS:HZ3	2:H:275:ASP:HB3	1.70	0.55
2:J:32:TYR:HE2	2:J:194:LYS:CB	2.20	0.55
2:J:99:PRO:CD	2:J:449:LEU:HD13	2.36	0.55
2:L:317:LYS:HE3	2:L:345:ILE:CD1	2.36	0.55
1:A:359:THR:HG23	1:A:378:GLN:C	2.32	0.55
1:A:1228:LYS:HD3	1:E:901:ASP:OD1	2.06	0.55
1:B:746:ILE:CG2	1:B:1182:ASP:HB3	2.22	0.55
1:B:1326:THR:HG22	1:B:1329:TYR:HB2	1.88	0.55
1:B:1368:MET:HB3	1:B:1387:MET:HG3	1.86	0.55
1:D:295:LYS:CE	1:D:299:VAL:HG12	2.37	0.55
1:E:251:MET:HE3	1:E:533:LEU:CD1	2.28	0.55
1:E:386:GLY:H	1:E:389:GLU:HG3	1.71	0.55
1:E:670:LEU:O	1:E:670:LEU:CD2	2.53	0.55
1:F:60:LYS:O	1:F:63:GLY:N	2.38	0.55
1:F:1316:GLU:O	1:F:1317:THR:C	2.46	0.55
1:F:1393:TYR:CD2	1:F:1424:LEU:HD12	2.40	0.55
1:F:1420:TYR:O	1:F:1421:GLU:C	2.46	0.55
2:G:31:ILE:HD12	2:G:31:ILE:C	2.31	0.55
2:G:96:ARG:HH21	2:G:199:VAL:CG2	2.19	0.55
2:G:305:VAL:HG22	2:G:316:VAL:HG11	1.88	0.55
2:H:358:VAL:HG11	2:H:366:ARG:HB2	1.88	0.55
2:I:238:VAL:HG23	2:I:439:ALA:HB2	1.87	0.55
2:K:31:ILE:HD12	2:K:31:ILE:C	2.31	0.55
2:L:99:PRO:CD	2:L:449:LEU:HD13	2.37	0.55
2:L:415:LEU:CG	2:L:432:THR:HG23	2.34	0.55
1:A:573:PHE:HB2	1:A:574:PRO:CD	2.36	0.55
1:A:664:THR:HA	1:A:720:ARG:NE	2.22	0.55
1:A:732:ARG:HD2	1:B:94:GLU:OE1	2.05	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:876:ASN:HB3	1:C:1227:GLU:OE1	2.03	0.55
1:A:1356:VAL:HG11	1:A:1431:HIS:CB	2.37	0.55
1:A:1394:VAL:O	1:A:1394:VAL:CG1	2.55	0.55
1:B:675:ILE:O	1:B:678:ARG:HB2	2.07	0.55
1:B:902:ASN:CG	1:F:1227:GLU:OE2	2.42	0.55
1:B:1424:LEU:HD21	1:B:1428:ILE:HD11	1.89	0.55
1:C:442:MET:HG2	1:C:446:GLU:HG2	1.89	0.55
1:C:452:GLN:NE2	1:C:764:THR:HG21	2.21	0.55
1:C:901:ASP:OD1	1:E:1228:LYS:HD3	2.06	0.55
1:C:961:PRO:O	1:C:963:VAL:N	2.39	0.55
1:C:1336:LEU:HB3	1:C:1355:VAL:HG13	1.88	0.55
1:C:1387:MET:O	1:C:1387:MET:CG	2.41	0.55
1:D:227:MET:HE2	1:D:282:GLU:CG	2.37	0.55
1:D:337:ASP:OD1	1:D:337:ASP:C	2.49	0.55
1:D:466:HIS:HB3	1:D:467:PRO:HD3	1.87	0.55
1:E:248:GLU:C	1:E:250:ARG:N	2.65	0.55
1:E:781:PHE:O	2:L:52:VAL:HB	1.85	0.55
1:E:1305:ILE:O	1:E:1336:LEU:HD12	2.06	0.55
2:G:246:ARG:HD3	2:G:399:LEU:CB	2.33	0.55
2:G:458:ARG:CZ	2:G:458:ARG:HB3	2.37	0.55
2:K:358:VAL:HG13	2:K:365:VAL:HG13	1.87	0.55
2:L:127:ILE:HG23	2:L:128:ASN:H	1.70	0.55
2:L:434:MET:HB2	2:L:437:VAL:HG11	1.87	0.55
1:B:1058:LEU:C	1:B:1059:ASN:HD22	2.14	0.55
1:C:447:LEU:CD2	1:C:674:ALA:HA	2.30	0.55
1:C:1110:SER:C	1:C:1112:THR:HG23	2.32	0.55
1:C:1356:VAL:HG11	1:C:1431:HIS:CB	2.37	0.55
1:D:348:ASN:HB2	1:D:350:LEU:HG	1.88	0.55
1:D:1424:LEU:HD21	1:D:1428:ILE:HD11	1.89	0.55
1:E:294:VAL:O	1:E:295:LYS:C	2.47	0.55
1:E:443:ASP:O	1:E:446:GLU:N	2.28	0.55
1:F:47:HIS:CE1	1:F:176:SER:HB3	2.42	0.55
1:F:763:ALA:O	1:F:764:THR:C	2.48	0.55
2:G:32:TYR:HE2	2:G:194:LYS:CB	2.20	0.55
2:G:225:SER:HB3	2:G:227:PRO:CD	2.23	0.55
2:H:45:ASN:HD21	2:H:45:ASN:N	2.04	0.55
2:H:181:ARG:C	2:H:181:ARG:HH11	2.14	0.55
2:H:401:PHE:O	2:H:402:GLU:HG3	2.07	0.55
2:I:122:SER:HA	2:I:125:LYS:CE	2.36	0.55
2:J:350:PRO:HD3	2:J:374:ALA:HB2	1.88	0.55
2:K:358:VAL:HG11	2:K:366:ARG:HB2	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:240:ASN:HB3	1:A:327:TRP:CZ2	2.41	0.55
1:A:824:GLN:HE21	1:A:824:GLN:HA	1.65	0.55
1:A:938:PRO:O	1:A:940:GLU:N	2.40	0.55
1:A:1222:LEU:HD12	1:A:1222:LEU:O	2.07	0.55
1:A:1226:GLY:CA	1:E:896:PRO:HG2	2.26	0.55
1:B:310:PRO:CG	1:B:404:ARG:NH2	2.66	0.55
1:B:985:TYR:CD1	1:B:1207:VAL:HG11	2.42	0.55
1:B:1366:GLU:HG2	1:B:1367:TYR:CE2	2.41	0.55
1:C:1054:GLN:O	1:C:1057:THR:N	2.39	0.55
1:C:1077:ARG:O	1:C:1078:ASP:C	2.44	0.55
1:C:1143:ALA:O	1:C:1144:GLU:C	2.45	0.55
1:C:1212:ASP:OD1	1:C:1243:GLY:N	2.24	0.55
1:D:47:HIS:CE1	1:D:176:SER:HB3	2.42	0.55
1:D:571:ALA:HB2	1:D:606:LEU:CD2	2.37	0.55
1:D:621:ILE:HG13	1:D:658:LEU:CD1	2.37	0.55
1:D:1407:ASP:O	1:D:1408:GLU:C	2.50	0.55
1:E:937:LYS:HB2	1:E:940:GLU:HG3	1.89	0.55
1:E:1356:VAL:HG11	1:E:1431:HIS:CB	2.36	0.55
1:E:1424:LEU:O	1:E:1425:LYS:C	2.49	0.55
1:E:1438:ARG:CZ	2:K:376:GLY:O	2.55	0.55
1:E:1438:ARG:CZ	2:K:376:GLY:C	2.80	0.55
1:E:1449:ARG:NH1	1:E:1449:ARG:CB	2.14	0.55
1:F:295:LYS:CE	1:F:299:VAL:HG12	2.37	0.55
1:F:938:PRO:HG2	1:F:1041:ALA:HB1	1.88	0.55
2:G:127:ILE:HG23	2:G:128:ASN:N	2.22	0.55
2:G:450:VAL:O	2:G:454:ILE:HG22	2.07	0.55
2:H:31:ILE:HD12	2:H:31:ILE:C	2.31	0.55
2:H:162:ALA:HB3	2:H:237:LEU:HD12	1.89	0.55
2:H:186:LEU:HD23	2:H:195:LEU:HD11	1.88	0.55
2:H:238:VAL:HG23	2:H:439:ALA:HB2	1.87	0.55
2:H:449:LEU:HD11	2:H:451:VAL:CG1	2.31	0.55
2:I:320:TYR:HE2	2:I:344:PHE:HD2	1.55	0.55
2:I:430:LYS:CE	2:I:440:ALA:HB2	2.32	0.55
2:J:305:VAL:HG22	2:J:316:VAL:HG11	1.88	0.55
2:J:350:PRO:CG	2:J:380:PRO:HA	2.36	0.55
2:J:401:PHE:O	2:J:402:GLU:HG3	2.07	0.55
2:K:320:TYR:HE2	2:K:344:PHE:HD2	1.55	0.55
1:A:313:HIS:CD2	1:A:313:HIS:H	2.24	0.55
1:A:565:THR:HG22	1:A:602:THR:HB	1.89	0.55
1:A:711:MET:O	1:A:713:ILE:HG13	2.06	0.55
1:A:1219:ALA:O	1:A:1220:ARG:C	2.47	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:24:ALA:C	1:C:26:LYS:N	2.65	0.55
1:C:629:THR:O	1:C:632:ILE:N	2.39	0.55
1:C:901:ASP:CG	1:E:1228:LYS:HD3	2.32	0.55
1:C:1222:LEU:HD12	1:C:1222:LEU:O	2.07	0.55
1:C:1305:ILE:O	1:C:1336:LEU:HD12	2.06	0.55
1:D:731:SER:HB2	1:D:747:SER:HB2	1.89	0.55
1:D:744:SER:O	1:D:746:ILE:N	2.40	0.55
1:E:853:PHE:CE1	1:E:1079:ILE:HD13	2.42	0.55
1:F:776:GLY:O	1:F:782:ARG:HD2	2.07	0.55
1:F:1113:CYS:O	1:F:1114:PRO:C	2.48	0.55
2:G:181:ARG:C	2:G:181:ARG:HH11	2.14	0.55
2:G:350:PRO:CG	2:G:380:PRO:HA	2.36	0.55
2:G:358:VAL:HG13	2:G:365:VAL:HG13	1.87	0.55
2:G:415:LEU:CG	2:G:432:THR:HG23	2.34	0.55
2:H:127:ILE:HG23	2:H:128:ASN:N	2.22	0.55
2:H:207:LEU:HG	2:H:214:TYR:OH	2.07	0.55
2:H:317:LYS:HE3	2:H:345:ILE:CD1	2.36	0.55
2:H:320:TYR:HE2	2:H:344:PHE:HD2	1.55	0.55
2:K:99:PRO:CD	2:K:449:LEU:HD13	2.36	0.55
2:K:162:ALA:HB3	2:K:237:LEU:HD12	1.89	0.55
2:L:127:ILE:HG23	2:L:128:ASN:N	2.22	0.55
2:L:350:PRO:CG	2:L:380:PRO:HA	2.36	0.55
1:A:155:ILE:O	1:A:159:VAL:HG23	2.07	0.55
1:A:236:THR:OG1	1:A:718:SER:HB3	2.07	0.55
1:A:442:MET:HG2	1:A:446:GLU:HG2	1.88	0.55
1:A:843:VAL:HG12	1:A:844:GLU:H	1.70	0.55
1:B:47:HIS:CE1	1:B:176:SER:HB3	2.42	0.55
1:B:612:GLY:O	1:B:762:HIS:CE1	2.60	0.55
1:B:828:LEU:HD22	1:B:1172:SER:CA	2.31	0.55
1:C:828:LEU:HD23	1:C:1172:SER:HB2	1.85	0.55
1:C:1131:THR:CG2	1:C:1133:GLU:OE1	2.54	0.55
1:C:1222:LEU:H	1:C:1229:MET:CE	2.20	0.55
1:D:776:GLY:O	1:D:782:ARG:HD2	2.07	0.55
1:D:938:PRO:HG2	1:D:1041:ALA:HB1	1.88	0.55
1:E:24:ALA:C	1:E:26:LYS:N	2.65	0.55
1:E:813:TYR:O	1:E:816:GLN:HB2	2.06	0.55
1:F:485:ILE:O	1:F:486:ALA:C	2.48	0.55
2:G:320:TYR:CE2	2:G:344:PHE:HD2	2.25	0.55
2:G:350:PRO:HD3	2:G:374:ALA:HB2	1.88	0.55
2:G:366:ARG:HE	2:G:391:GLN:CD	2.15	0.55
2:G:469:LYS:NZ	2:G:476:VAL:HA	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:31:ILE:HD12	2:I:31:ILE:C	2.31	0.55
2:I:45:ASN:HD21	2:I:45:ASN:N	2.04	0.55
2:I:186:LEU:HD23	2:I:195:LEU:HD11	1.88	0.55
2:I:327:MET:HB2	2:I:346:TRP:HZ2	1.65	0.55
2:J:162:ALA:HB3	2:J:237:LEU:HD12	1.89	0.55
2:K:450:VAL:O	2:K:454:ILE:HG22	2.07	0.55
2:K:458:ARG:CZ	2:K:458:ARG:HB3	2.37	0.55
2:L:96:ARG:HH21	2:L:199:VAL:CG2	2.19	0.55
2:L:327:MET:HB2	2:L:346:TRP:HZ2	1.65	0.55
2:L:458:ARG:HB3	2:L:458:ARG:CZ	2.37	0.55
1:A:35:ASP:HB3	1:A:37:ASP:H	1.71	0.54
1:A:1375:ILE:O	1:A:1377:GLY:N	2.39	0.54
1:A:1376:LEU:CB	1:A:1439:PHE:HE1	2.19	0.54
1:B:227:MET:HE2	1:B:282:GLU:CG	2.37	0.54
1:B:1008:THR:HG22	1:B:1009:ILE:H	1.70	0.54
1:C:37:ASP:OD2	1:C:40:THR:HB	2.06	0.54
1:C:171:SER:OG	1:C:177:ILE:HA	2.07	0.54
1:C:359:THR:HG23	1:C:378:GLN:C	2.32	0.54
1:C:826:ARG:HH11	1:C:826:ARG:CG	1.97	0.54
1:C:1135:VAL:O	1:C:1136:VAL:C	2.44	0.54
1:C:1442:GLU:OE2	2:J:374:ALA:C	2.50	0.54
1:D:223:GLN:HB3	1:D:224:PRO:CA	2.37	0.54
1:D:310:PRO:CG	1:D:404:ARG:NH2	2.66	0.54
1:D:351:ARG:HH12	1:D:978:GLU:CD	2.14	0.54
1:D:704:LEU:C	1:D:706:LYS:H	2.14	0.54
1:D:867:ALA:HB1	1:D:1100:MET:HE1	1.87	0.54
1:D:1104:MET:C	2:H:54:PHE:CZ	2.81	0.54
1:E:155:ILE:O	1:E:159:VAL:HG23	2.07	0.54
1:E:319:TYR:O	1:E:322:SER:OG	2.17	0.54
1:E:573:PHE:HB2	1:E:574:PRO:CD	2.36	0.54
1:E:826:ARG:HG2	1:E:1046:GLU:OE2	2.07	0.54
1:E:950:THR:CG2	1:E:952:MET:H	2.15	0.54
1:F:612:GLY:O	1:F:762:HIS:CE1	2.60	0.54
1:F:630:HIS:O	1:F:631:LEU:C	2.49	0.54
1:F:731:SER:HB2	1:F:747:SER:HB2	1.89	0.54
2:G:162:ALA:CB	2:G:237:LEU:HD12	2.37	0.54
2:G:401:PHE:O	2:G:402:GLU:HG3	2.07	0.54
2:H:32:TYR:HE2	2:H:194:LYS:CB	2.20	0.54
2:H:358:VAL:HG13	2:H:365:VAL:HG13	1.87	0.54
2:I:127:ILE:HG23	2:I:128:ASN:N	2.22	0.54
2:J:225:SER:HB3	2:J:227:PRO:CD	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:320:TYR:HE2	2:J:344:PHE:HD2	1.55	0.54
2:K:266:THR:HG23	2:K:270:LYS:HZ2	1.71	0.54
2:K:321:ARG:HD3	2:K:322:ARG:CB	2.37	0.54
2:K:434:MET:HB2	2:K:437:VAL:HG11	1.87	0.54
2:K:469:LYS:NZ	2:K:476:VAL:HA	2.22	0.54
2:L:238:VAL:HG23	2:L:439:ALA:HB2	1.87	0.54
2:L:320:TYR:HE2	2:L:344:PHE:HD2	1.55	0.54
1:A:61:VAL:O	1:A:61:VAL:HG12	2.07	0.54
1:A:248:GLU:C	1:A:250:ARG:N	2.65	0.54
1:A:853:PHE:CE1	1:A:1079:ILE:HD13	2.42	0.54
1:A:973:ASP:OD2	1:A:1298:LYS:CE	2.54	0.54
1:A:1054:GLN:O	1:A:1055:VAL:C	2.49	0.54
1:A:1424:LEU:O	1:A:1425:LYS:C	2.48	0.54
1:A:1435:THR:HG23	1:A:1437:SER:N	2.23	0.54
1:A:1442:GLU:OE2	2:L:374:ALA:C	2.50	0.54
1:B:111:PRO:C	1:B:112:ILE:HG23	2.33	0.54
1:B:260:MET:O	1:B:263:LEU:CB	2.55	0.54
1:B:556:ARG:O	1:B:557:ALA:C	2.48	0.54
1:B:953:ILE:HG22	1:B:954:ALA:N	2.22	0.54
1:B:979:ASP:O	1:B:980:LEU:C	2.49	0.54
1:C:236:THR:OG1	1:C:718:SER:HB3	2.07	0.54
1:C:249:THR:OG1	1:C:635:ASN:HB3	2.08	0.54
1:C:266:VAL:O	1:C:279:THR:HG23	2.08	0.54
1:D:666:VAL:HG12	1:D:667:ASN:N	2.19	0.54
1:D:670:LEU:HD22	1:D:670:LEU:C	2.31	0.54
1:D:1366:GLU:HG2	1:D:1367:TYR:CE2	2.41	0.54
1:E:236:THR:OG1	1:E:718:SER:HB3	2.07	0.54
1:E:468:MET:HG2	1:E:699:ALA:CB	2.38	0.54
1:E:537:GLU:C	1:E:539:GLN:H	2.15	0.54
1:E:938:PRO:O	1:E:940:GLU:N	2.40	0.54
1:E:1075:THR:CG2	1:E:1076:GLY:N	2.66	0.54
1:E:1307:VAL:HG12	1:E:1322:ILE:HD13	1.89	0.54
1:F:61:VAL:HG12	1:F:61:VAL:O	2.08	0.54
1:F:1326:THR:HG22	1:F:1329:TYR:HB2	1.88	0.54
2:G:122:SER:HA	2:G:125:LYS:CE	2.36	0.54
2:G:320:TYR:HE2	2:G:344:PHE:HD2	1.55	0.54
2:H:246:ARG:HD3	2:H:399:LEU:CB	2.33	0.54
2:H:302:MET:HE2	2:H:333:GLU:CG	2.38	0.54
2:H:321:ARG:HD3	2:H:322:ARG:CB	2.37	0.54
2:H:418:THR:N	2:H:424:LEU:HD22	2.23	0.54
2:J:366:ARG:NE	2:J:391:GLN:HG2	2.14	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:181:ARG:C	2:K:181:ARG:HH11	2.14	0.54
2:L:186:LEU:HD23	2:L:195:LEU:HD11	1.88	0.54
2:L:305:VAL:HG22	2:L:316:VAL:HG11	1.88	0.54
2:L:320:TYR:CE2	2:L:344:PHE:HD2	2.25	0.54
2:L:366:ARG:HE	2:L:391:GLN:CD	2.15	0.54
2:L:401:PHE:O	2:L:402:GLU:HG3	2.07	0.54
1:A:249:THR:OG1	1:A:635:ASN:HB3	2.08	0.54
1:A:629:THR:O	1:A:632:ILE:N	2.39	0.54
1:A:937:LYS:HB2	1:A:940:GLU:HG3	1.89	0.54
1:A:1220:ARG:N	1:A:1221:PRO:CD	2.71	0.54
1:A:1438:ARG:CZ	2:L:376:GLY:O	2.55	0.54
1:B:61:VAL:HG12	1:B:61:VAL:O	2.08	0.54
1:B:494:GLY:O	1:B:495:LEU:C	2.48	0.54
1:B:953:ILE:O	1:B:954:ALA:C	2.50	0.54
1:B:1316:GLU:O	1:B:1317:THR:C	2.46	0.54
1:C:177:ILE:CD1	1:C:179:TYR:HE1	2.17	0.54
1:C:572:THR:HG23	1:C:615:ARG:HB3	1.90	0.54
1:C:1300:LEU:HD12	1:C:1301:SER:N	2.22	0.54
1:C:1438:ARG:CZ	2:J:376:GLY:O	2.55	0.54
1:D:387:PRO:CD	1:D:1344:GLU:OE2	2.47	0.54
1:E:565:THR:HG22	1:E:602:THR:HB	1.89	0.54
1:E:1222:LEU:H	1:E:1229:MET:CE	2.20	0.54
1:F:136:ASN:OD1	1:F:136:ASN:N	2.38	0.54
1:F:351:ARG:HH12	1:F:978:GLU:CD	2.14	0.54
2:G:321:ARG:HD3	2:G:322:ARG:CB	2.37	0.54
2:H:366:ARG:NE	2:H:391:GLN:HG2	2.14	0.54
2:H:440:ALA:HB1	2:H:456:ASP:HB2	1.85	0.54
2:I:174:HIS:HE1	2:I:215:HIS:HB3	1.72	0.54
2:I:305:VAL:HG22	2:I:316:VAL:HG11	1.88	0.54
2:I:401:PHE:O	2:I:402:GLU:HG3	2.07	0.54
2:J:302:MET:HE2	2:J:333:GLU:CG	2.37	0.54
2:K:174:HIS:HE1	2:K:215:HIS:HB3	1.72	0.54
2:K:320:TYR:CE2	2:K:344:PHE:HD2	2.25	0.54
2:K:360:THR:HG22	2:K:365:VAL:HG11	1.88	0.54
2:K:366:ARG:NE	2:K:391:GLN:HG2	2.14	0.54
2:K:401:PHE:O	2:K:402:GLU:HG3	2.07	0.54
2:L:31:ILE:HD12	2:L:31:ILE:C	2.31	0.54
2:L:54:PHE:HB3	2:L:107:ASN:CB	2.36	0.54
2:L:162:ALA:CB	2:L:237:LEU:HD12	2.37	0.54
1:A:21:GLY:O	1:A:22:ILE:C	2.49	0.54
1:A:1222:LEU:H	1:A:1229:MET:CE	2.20	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1228:LYS:HD3	1:E:901:ASP:CG	2.32	0.54
1:B:24:ALA:C	1:B:26:LYS:N	2.65	0.54
1:B:162:GLU:HB3	1:B:164:ILE:HD12	1.88	0.54
1:B:1104:MET:C	2:G:54:PHE:CZ	2.81	0.54
1:B:1121:ASP:O	1:B:1125:ARG:HG3	2.08	0.54
1:C:1438:ARG:CZ	2:J:376:GLY:C	2.80	0.54
1:D:820:ARG:CB	1:D:821:PRO:HD2	2.36	0.54
1:D:824:GLN:CA	1:D:824:GLN:HE21	2.20	0.54
1:D:857:GLY:O	4:D:2474:FMN:C10	2.56	0.54
1:D:911:ALA:O	1:D:912:SER:C	2.50	0.54
1:D:1121:ASP:O	1:D:1125:ARG:HG3	2.08	0.54
1:F:529:LEU:HB3	1:F:638:THR:OG1	2.08	0.54
1:F:743:VAL:CG1	1:F:745:ARG:HG3	2.38	0.54
1:F:820:ARG:CB	1:F:821:PRO:HD2	2.37	0.54
1:F:1058:LEU:C	1:F:1059:ASN:HD22	2.14	0.54
1:F:1131:THR:O	1:F:1134:LYS:N	2.41	0.54
1:F:1424:LEU:HD21	1:F:1428:ILE:HD11	1.89	0.54
2:H:99:PRO:CD	2:H:449:LEU:HD13	2.37	0.54
2:H:366:ARG:HE	2:H:391:GLN:CD	2.15	0.54
2:I:415:LEU:CG	2:I:432:THR:HG23	2.34	0.54
2:J:127:ILE:HG23	2:J:128:ASN:N	2.22	0.54
2:J:207:LEU:HG	2:J:214:TYR:OH	2.07	0.54
2:J:434:MET:HB2	2:J:437:VAL:HG11	1.87	0.54
2:K:418:THR:N	2:K:424:LEU:HD22	2.22	0.54
1:A:481:ASP:HB2	1:A:1038:ILE:O	2.08	0.54
1:A:492:TYR:C	1:A:492:TYR:CD1	2.86	0.54
1:A:1061:LEU:O	1:A:1064:ARG:HB2	2.08	0.54
1:A:1300:LEU:HD12	1:A:1301:SER:N	2.22	0.54
1:B:253:HIS:CE1	1:B:254:PRO:CD	2.88	0.54
1:B:254:PRO:HG2	1:B:255:ALA:N	2.10	0.54
1:B:337:ASP:OD1	1:B:337:ASP:C	2.49	0.54
1:B:857:GLY:O	4:B:2474:FMN:C10	2.56	0.54
1:B:1051:GLU:O	1:B:1052:VAL:C	2.46	0.54
1:C:35:ASP:HB3	1:C:37:ASP:H	1.71	0.54
1:C:250:ARG:NE	1:C:639:PHE:CE1	2.72	0.54
1:C:252:GLU:HA	1:C:260:MET:HE3	1.87	0.54
1:C:468:MET:HG2	1:C:699:ALA:CB	2.38	0.54
1:C:515:ARG:CZ	1:C:1367:TYR:HE1	2.20	0.54
1:C:938:PRO:O	1:C:940:GLU:N	2.40	0.54
1:D:675:ILE:O	1:D:678:ARG:HB2	2.07	0.54
1:D:690:GLU:CD	1:D:690:GLU:H	2.15	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1054:GLN:O	1:D:1057:THR:HB	2.08	0.54
1:D:1221:PRO:CD	1:D:1229:MET:HE1	2.26	0.54
1:E:53:LYS:O	1:E:54:PHE:C	2.50	0.54
1:E:171:SER:OG	1:E:177:ILE:HA	2.07	0.54
1:E:515:ARG:CZ	1:E:1367:TYR:HE1	2.20	0.54
1:E:1243:GLY:O	1:E:1244:THR:C	2.49	0.54
1:E:1376:LEU:CB	1:E:1439:PHE:HE1	2.19	0.54
1:F:24:ALA:C	1:F:26:LYS:N	2.65	0.54
1:F:182:MET:CE	1:F:217:PRO:C	2.62	0.54
1:F:571:ALA:HB2	1:F:606:LEU:CD2	2.37	0.54
1:F:891:PRO:HA	1:F:894:PHE:CD2	2.43	0.54
2:H:96:ARG:HH21	2:H:199:VAL:CG2	2.19	0.54
2:H:458:ARG:HB3	2:H:458:ARG:CZ	2.37	0.54
2:I:32:TYR:HE2	2:I:194:LYS:CB	2.20	0.54
2:I:54:PHE:HB3	2:I:107:ASN:CB	2.36	0.54
2:I:418:THR:N	2:I:424:LEU:HD22	2.22	0.54
2:J:122:SER:HA	2:J:125:LYS:CE	2.36	0.54
2:J:322:ARG:CD	2:J:326:ASN:HD21	2.19	0.54
2:J:469:LYS:NZ	2:J:476:VAL:HA	2.22	0.54
2:K:127:ILE:HG23	2:K:128:ASN:N	2.22	0.54
2:K:207:LEU:HG	2:K:214:TYR:OH	2.07	0.54
2:K:366:ARG:HE	2:K:391:GLN:CD	2.15	0.54
2:L:174:HIS:HE1	2:L:215:HIS:HB3	1.72	0.54
2:L:207:LEU:HG	2:L:214:TYR:OH	2.07	0.54
1:A:230:HIS:CE1	1:A:234:ILE:HG13	2.35	0.54
1:A:443:ASP:O	1:A:446:GLU:N	2.28	0.54
1:A:515:ARG:CZ	1:A:1367:TYR:HE1	2.20	0.54
1:A:670:LEU:O	1:A:670:LEU:CD2	2.53	0.54
1:A:1111:ASN:OD1	1:A:1119:VAL:CG2	2.37	0.54
1:A:1302:GLY:HA2	1:A:1334:GLY:N	2.23	0.54
1:A:1387:MET:O	1:A:1387:MET:CG	2.41	0.54
1:A:1438:ARG:HG3	2:L:376:GLY:HA2	0.58	0.54
1:B:249:THR:OG1	1:B:635:ASN:HB3	2.08	0.54
1:B:621:ILE:HG13	1:B:658:LEU:CD1	2.37	0.54
1:B:670:LEU:HD22	1:B:670:LEU:C	2.31	0.54
1:B:1054:GLN:O	1:B:1057:THR:HB	2.08	0.54
1:B:1131:THR:O	1:B:1134:LYS:N	2.41	0.54
1:B:1407:ASP:O	1:B:1408:GLU:C	2.50	0.54
1:C:643:ASN:ND2	1:C:665:THR:HB	2.23	0.54
1:D:249:THR:OG1	1:D:635:ASN:HB3	2.08	0.54
1:D:612:GLY:O	1:D:762:HIS:CE1	2.60	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:953:ILE:HG22	1:D:954:ALA:N	2.22	0.54
1:E:359:THR:HG23	1:E:378:GLN:C	2.32	0.54
1:E:636:LEU:O	1:E:637:ARG:C	2.50	0.54
1:E:754:ILE:O	1:E:755:GLN:C	2.48	0.54
1:E:1061:LEU:O	1:E:1064:ARG:HB2	2.08	0.54
1:F:704:LEU:C	1:F:706:LYS:H	2.14	0.54
1:F:744:SER:O	1:F:746:ILE:N	2.40	0.54
1:F:985:TYR:CD1	1:F:1207:VAL:HG11	2.42	0.54
1:F:1114:PRO:HG3	2:I:109:VAL:O	2.06	0.54
1:F:1177:HIS:CD2	1:F:1177:HIS:H	2.25	0.54
1:F:1407:ASP:O	1:F:1408:GLU:C	2.50	0.54
2:H:97:ILE:HD11	2:H:450:VAL:CB	2.37	0.54
2:H:174:HIS:HE1	2:H:215:HIS:HB3	1.72	0.54
2:I:96:ARG:HH21	2:I:199:VAL:CG2	2.19	0.54
2:I:110:ILE:HG13	2:I:117:ALA:CA	2.35	0.54
2:J:96:ARG:HH21	2:J:199:VAL:CG2	2.19	0.54
2:J:458:ARG:CZ	2:J:458:ARG:HB3	2.37	0.54
2:K:350:PRO:CG	2:K:380:PRO:HA	2.36	0.54
1:A:61:VAL:O	1:A:61:VAL:CG1	2.51	0.54
1:A:447:LEU:CD2	1:A:674:ALA:HA	2.30	0.54
1:A:561:TYR:CD1	1:A:561:TYR:O	2.61	0.54
1:B:485:ILE:O	1:B:486:ALA:C	2.48	0.54
1:B:690:GLU:CD	1:B:690:GLU:H	2.15	0.54
1:B:731:SER:HB2	1:B:747:SER:HB2	1.89	0.54
1:B:776:GLY:O	1:B:782:ARG:HD2	2.07	0.54
1:B:938:PRO:HG2	1:B:1041:ALA:HB1	1.88	0.54
1:B:1114:PRO:HG3	2:G:109:VAL:O	2.07	0.54
1:C:1093:GLY:O	1:C:1096:SER:N	2.41	0.54
1:C:1302:GLY:HA2	1:C:1334:GLY:N	2.23	0.54
1:D:148:LEU:HD22	1:D:172:LEU:HG	1.87	0.54
1:D:162:GLU:HB3	1:D:164:ILE:HD12	1.88	0.54
1:D:746:ILE:CG2	1:D:1182:ASP:HB3	2.22	0.54
1:D:826:ARG:HH11	1:D:826:ARG:CG	2.07	0.54
1:D:991:ASN:OD1	1:D:991:ASN:C	2.50	0.54
1:D:1058:LEU:C	1:D:1059:ASN:HD22	2.14	0.54
1:D:1114:PRO:HG3	2:H:109:VAL:O	2.07	0.54
1:D:1326:THR:HG22	1:D:1329:TYR:HB2	1.88	0.54
1:E:313:HIS:CD2	1:E:313:HIS:H	2.24	0.54
1:E:643:ASN:ND2	1:E:665:THR:HB	2.23	0.54
1:F:62:ILE:HG22	1:F:62:ILE:O	2.08	0.54
1:F:116:ILE:HD13	1:F:190:THR:HG22	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:675:ILE:O	1:F:678:ARG:HB2	2.07	0.54
1:F:824:GLN:HE21	1:F:824:GLN:CA	2.20	0.54
1:F:857:GLY:O	4:F:2474:FMN:C10	2.56	0.54
2:I:360:THR:HG22	2:I:365:VAL:HG11	1.88	0.54
2:I:366:ARG:HE	2:I:391:GLN:CD	2.15	0.54
2:I:454:ILE:HD13	2:I:454:ILE:C	2.33	0.54
2:I:469:LYS:NZ	2:I:476:VAL:HA	2.22	0.54
2:J:162:ALA:CB	2:J:237:LEU:HD12	2.37	0.54
1:A:142:GLU:CD	1:A:142:GLU:N	2.58	0.54
1:A:1075:THR:O	1:A:1076:GLY:C	2.50	0.54
1:A:1304:THR:HG23	1:A:1335:LYS:HB2	1.90	0.54
1:A:1438:ARG:CB	2:L:376:GLY:HA2	2.13	0.54
1:B:295:LYS:CE	1:B:299:VAL:HG12	2.37	0.54
1:B:529:LEU:HB3	1:B:638:THR:OG1	2.08	0.54
1:B:917:VAL:HG13	1:B:922:LEU:HD21	1.90	0.54
1:B:1075:THR:HG23	1:B:1145:GLU:OE2	2.06	0.54
1:C:53:LYS:O	1:C:54:PHE:C	2.50	0.54
1:C:83:LEU:O	1:C:84:ASP:C	2.50	0.54
1:D:235:ASN:HB3	1:D:508:ASN:ND2	2.22	0.54
1:D:575:VAL:HG23	1:D:614:ALA:O	2.08	0.54
1:D:891:PRO:HA	1:D:894:PHE:CD2	2.43	0.54
1:D:979:ASP:O	1:D:980:LEU:C	2.49	0.54
1:E:481:ASP:HB2	1:E:1038:ILE:O	2.08	0.54
1:E:1302:GLY:HA2	1:E:1334:GLY:N	2.23	0.54
1:E:1435:THR:HG23	1:E:1437:SER:N	2.23	0.54
1:F:249:THR:OG1	1:F:635:ASN:HB3	2.08	0.54
1:F:1401:LEU:O	1:F:1401:LEU:CD1	2.38	0.54
1:F:1442:GLU:OE2	2:G:375:THR:HA	2.08	0.54
2:G:99:PRO:CD	2:G:449:LEU:HD13	2.36	0.54
2:G:302:MET:HE2	2:G:333:GLU:CG	2.37	0.54
2:H:350:PRO:CG	2:H:380:PRO:HA	2.36	0.54
2:I:97:ILE:HD11	2:I:450:VAL:CB	2.37	0.54
2:I:458:ARG:HB3	2:I:458:ARG:CZ	2.37	0.54
2:J:250:ALA:CB	2:J:251:PRO:HD2	2.35	0.54
2:L:450:VAL:O	2:L:454:ILE:HG22	2.06	0.54
1:A:67:PRO:HG3	1:A:105:TYR:OH	2.08	0.54
1:A:1110:SER:C	1:A:1112:THR:HG23	2.32	0.54
1:B:868:HIS:O	1:B:869:GLY:C	2.50	0.54
1:B:891:PRO:HA	1:B:894:PHE:CD2	2.43	0.54
1:B:1228:LYS:HB2	1:D:900:GLY:C	2.33	0.54
1:B:1442:GLU:OE2	2:H:375:THR:HA	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:528:ASN:HB2	1:C:542:LEU:HD22	1.90	0.54
1:C:561:TYR:CD1	1:C:561:TYR:O	2.61	0.54
1:C:565:THR:HG22	1:C:602:THR:HB	1.89	0.54
1:C:937:LYS:HE3	1:C:1033:SER:CB	2.34	0.54
1:C:937:LYS:HB2	1:C:940:GLU:HG3	1.89	0.54
1:C:1376:LEU:CB	1:C:1439:PHE:HE1	2.19	0.54
1:E:230:HIS:CE1	1:E:234:ILE:HG13	2.35	0.54
1:E:345:MET:CG	1:E:346:ASP:N	2.55	0.54
1:E:664:THR:HA	1:E:720:ARG:NE	2.22	0.54
1:E:804:ASN:O	1:E:805:ASP:HB3	2.08	0.54
1:E:976:SER:O	1:E:979:ASP:HB2	2.08	0.54
1:E:1110:SER:C	1:E:1112:THR:HG23	2.32	0.54
1:F:447:LEU:HD11	1:F:451:GLN:NE2	2.23	0.54
1:F:657:VAL:HG12	1:F:658:LEU:N	2.15	0.54
1:F:917:VAL:HG13	1:F:922:LEU:HD21	1.90	0.54
2:G:162:ALA:HB3	2:G:237:LEU:HD12	1.89	0.54
2:H:162:ALA:CB	2:H:237:LEU:HD12	2.37	0.54
2:H:320:TYR:CE2	2:H:344:PHE:HD2	2.25	0.54
2:I:153:ILE:HG21	2:I:238:VAL:HG12	1.90	0.54
2:I:162:ALA:CB	2:I:237:LEU:HD12	2.38	0.54
2:I:320:TYR:CE2	2:I:344:PHE:HD2	2.25	0.54
2:J:97:ILE:HD11	2:J:450:VAL:CB	2.37	0.54
2:J:97:ILE:CG1	2:J:450:VAL:HG11	2.38	0.54
2:K:97:ILE:HD11	2:K:450:VAL:CB	2.37	0.54
2:L:32:TYR:HE2	2:L:194:LYS:CB	2.20	0.54
1:A:266:VAL:O	1:A:279:THR:HG23	2.08	0.54
1:A:452:GLN:NE2	1:A:764:THR:HG21	2.21	0.54
1:A:1216:VAL:HG11	1:A:1249:MET:HE2	1.90	0.54
1:B:256:PHE:O	1:B:259:HIS:HB2	2.08	0.54
1:B:1236:ARG:C	1:B:1238:THR:H	2.15	0.54
1:C:248:GLU:C	1:C:250:ARG:N	2.65	0.54
1:C:481:ASP:HB2	1:C:1038:ILE:O	2.08	0.54
1:C:664:THR:HA	1:C:720:ARG:NE	2.22	0.54
1:C:1216:VAL:HG11	1:C:1249:MET:HE2	1.90	0.54
1:C:1304:THR:HG23	1:C:1335:LYS:HB2	1.90	0.54
1:C:1307:VAL:HG12	1:C:1322:ILE:HD13	1.89	0.54
1:C:1427:LEU:O	1:C:1430:GLU:N	2.41	0.54
1:D:743:VAL:CG1	1:D:745:ARG:HG3	2.38	0.54
1:D:746:ILE:HG12	1:D:1182:ASP:O	2.08	0.54
1:D:1131:THR:O	1:D:1134:LYS:N	2.41	0.54
1:E:302:ALA:HA	1:E:347:ARG:NH1	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:369:THR:HG22	1:E:1293:ASN:ND2	2.23	0.54
1:F:621:ILE:HG13	1:F:658:LEU:CD1	2.38	0.54
1:F:875:MET:O	1:F:876:ASN:C	2.47	0.54
1:F:953:ILE:HG22	1:F:954:ALA:N	2.22	0.54
1:F:978:GLU:HG3	1:F:979:ASP:H	1.73	0.54
2:G:238:VAL:HG23	2:G:439:ALA:CA	2.38	0.54
2:G:317:LYS:CE	2:G:345:ILE:HG21	2.38	0.54
2:G:317:LYS:NZ	2:G:345:ILE:HG21	2.23	0.54
2:J:153:ILE:HG21	2:J:238:VAL:HG12	1.90	0.54
2:J:238:VAL:HG23	2:J:439:ALA:CA	2.38	0.54
2:J:317:LYS:NZ	2:J:345:ILE:HG21	2.23	0.54
2:J:454:ILE:HD13	2:J:454:ILE:C	2.33	0.54
2:K:32:TYR:HE2	2:K:194:LYS:CB	2.20	0.54
2:K:418:THR:CB	2:K:424:LEU:HD11	2.23	0.54
2:L:317:LYS:NZ	2:L:345:ILE:HG21	2.23	0.54
1:A:244:MET:C	1:A:246:ALA:N	2.65	0.53
1:A:708:MET:O	1:A:710:LYS:N	2.41	0.53
1:B:911:ALA:O	1:B:912:SER:C	2.50	0.53
1:B:978:GLU:HG3	1:B:979:ASP:H	1.73	0.53
1:B:1113:CYS:O	1:B:1114:PRO:C	2.48	0.53
1:C:269:VAL:HG23	1:C:270:GLY:N	2.22	0.53
1:C:976:SER:O	1:C:979:ASP:HB2	2.08	0.53
1:D:256:PHE:O	1:D:259:HIS:HB2	2.08	0.53
1:D:1177:HIS:CD2	1:D:1177:HIS:H	2.25	0.53
1:D:1236:ARG:C	1:D:1238:THR:H	2.15	0.53
1:E:67:PRO:HG3	1:E:105:TYR:OH	2.08	0.53
1:E:1219:ALA:C	1:E:1221:PRO:HD2	2.34	0.53
1:E:1442:GLU:OE2	2:K:374:ALA:C	2.50	0.53
1:F:111:PRO:C	1:F:112:ILE:HG23	2.33	0.53
1:F:387:PRO:CD	1:F:1344:GLU:OE2	2.47	0.53
1:F:575:VAL:HG23	1:F:614:ALA:O	2.08	0.53
1:F:746:ILE:HG12	1:F:1182:ASP:O	2.08	0.53
1:F:1470:VAL:O	1:F:1470:VAL:HG13	2.08	0.53
2:H:94:CYS:HB3	2:H:98:CYS:SG	2.48	0.53
2:H:97:ILE:CG1	2:H:450:VAL:HG11	2.38	0.53
2:I:97:ILE:CG1	2:I:450:VAL:HG11	2.38	0.53
2:J:320:TYR:CE2	2:J:344:PHE:HD2	2.25	0.53
2:J:418:THR:CB	2:J:424:LEU:HD11	2.23	0.53
2:J:418:THR:N	2:J:424:LEU:HD22	2.23	0.53
2:K:132:TRP:HA	2:K:202:ARG:CZ	2.39	0.53
2:K:145:GLU:OE2	2:K:171:TYR:HE1	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:186:LEU:HD21	2:K:195:LEU:HD11	1.91	0.53
1:A:631:LEU:HD13	1:A:636:LEU:HB3	1.90	0.53
1:B:443:ASP:O	1:B:445:ALA:N	2.41	0.53
1:B:824:GLN:HE21	1:B:824:GLN:CA	2.20	0.53
1:B:875:MET:O	1:B:876:ASN:C	2.47	0.53
1:C:518:ARG:NH2	1:C:1382:ASN:HD22	2.06	0.53
1:C:636:LEU:O	1:C:637:ARG:C	2.50	0.53
1:C:804:ASN:O	1:C:805:ASP:HB3	2.08	0.53
1:C:853:PHE:CE1	1:C:1079:ILE:HD13	2.42	0.53
1:C:918:THR:O	1:C:919:ALA:C	2.51	0.53
1:C:1316:GLU:O	1:C:1318:ASN:N	2.42	0.53
1:D:838:VAL:HG13	1:D:839:PRO:CD	2.31	0.53
1:D:1438:ARG:CD	2:I:377:ARG:N	2.41	0.53
1:E:83:LEU:O	1:E:84:ASP:C	2.50	0.53
1:E:520:MET:HE3	1:E:705:LEU:HD13	1.91	0.53
1:E:561:TYR:CD1	1:E:561:TYR:O	2.61	0.53
1:E:1400:SER:O	1:E:1403:LEU:N	2.27	0.53
1:F:1233:TYR:O	1:F:1268:LEU:HA	2.09	0.53
2:G:132:TRP:HA	2:G:202:ARG:CZ	2.39	0.53
2:G:174:HIS:HE1	2:G:215:HIS:HB3	1.72	0.53
2:G:465:HIS:NE2	2:G:469:LYS:HE3	2.24	0.53
2:H:132:TRP:HA	2:H:202:ARG:CZ	2.39	0.53
2:H:238:VAL:HG23	2:H:439:ALA:CA	2.38	0.53
2:H:244:LYS:HG3	2:H:402:GLU:O	2.09	0.53
2:H:372:ALA:HB1	2:H:381:GLN:O	2.08	0.53
2:I:366:ARG:NE	2:I:391:GLN:HG2	2.14	0.53
2:J:249:LYS:HE2	2:J:258:ILE:HD11	1.90	0.53
2:J:321:ARG:HD3	2:J:322:ARG:CB	2.37	0.53
2:J:322:ARG:HD2	2:J:349:ALA:CB	2.38	0.53
2:J:372:ALA:HB1	2:J:381:GLN:O	2.08	0.53
2:K:94:CYS:HB3	2:K:98:CYS:SG	2.49	0.53
2:K:327:MET:HB2	2:K:346:TRP:HZ2	1.65	0.53
2:L:454:ILE:HD13	2:L:454:ILE:C	2.33	0.53
1:A:53:LYS:O	1:A:54:PHE:C	2.50	0.53
1:A:1307:VAL:HG12	1:A:1322:ILE:HD13	1.89	0.53
1:B:575:VAL:HG23	1:B:614:ALA:O	2.08	0.53
1:B:744:SER:O	1:B:746:ILE:N	2.40	0.53
1:B:746:ILE:HG12	1:B:1182:ASP:O	2.08	0.53
1:B:1080:VAL:HG12	1:B:1084:MET:HE3	1.90	0.53
1:B:1438:ARG:CZ	2:H:376:GLY:O	2.57	0.53
1:C:561:TYR:C	1:C:561:TYR:CD1	2.86	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1310:THR:O	1:C:1313:SER:N	2.33	0.53
1:D:978:GLU:HG3	1:D:979:ASP:H	1.73	0.53
1:E:149:TYR:HE1	1:E:282:GLU:OE1	1.91	0.53
1:E:1054:GLN:O	1:E:1055:VAL:C	2.49	0.53
1:E:1300:LEU:HD12	1:E:1301:SER:N	2.22	0.53
1:E:1420:TYR:OH	1:E:1466:LEU:HD22	2.09	0.53
1:F:256:PHE:O	1:F:259:HIS:HB2	2.08	0.53
1:F:911:ALA:O	1:F:912:SER:C	2.50	0.53
1:F:1054:GLN:O	1:F:1057:THR:HB	2.08	0.53
1:F:1159:ASN:C	1:F:1161:VAL:N	2.66	0.53
2:G:473:GLU:HG2	2:G:473:GLU:O	2.08	0.53
2:H:153:ILE:HG21	2:H:238:VAL:HG12	1.90	0.53
2:I:162:ALA:HB3	2:I:237:LEU:HD12	1.89	0.53
2:I:243:TYR:CE1	2:I:405:ASP:HB3	2.43	0.53
2:I:317:LYS:NZ	2:I:345:ILE:HG21	2.24	0.53
2:J:243:TYR:CE1	2:J:405:ASP:HB3	2.43	0.53
2:J:449:LEU:CD2	2:J:451:VAL:HG13	2.27	0.53
2:K:302:MET:HE2	2:K:333:GLU:CG	2.38	0.53
2:K:415:LEU:CG	2:K:432:THR:HG23	2.34	0.53
2:L:94:CYS:HB3	2:L:98:CYS:SG	2.48	0.53
2:L:97:ILE:CG1	2:L:450:VAL:HG11	2.38	0.53
2:L:122:SER:HA	2:L:125:LYS:CE	2.36	0.53
2:L:132:TRP:HA	2:L:202:ARG:CZ	2.39	0.53
2:L:162:ALA:HB3	2:L:237:LEU:HD12	1.89	0.53
2:L:317:LYS:CE	2:L:345:ILE:HG21	2.38	0.53
2:L:322:ARG:HG3	2:L:326:ASN:OD1	2.09	0.53
2:L:416:LYS:HZ2	2:L:433:ASN:HB2	1.73	0.53
1:A:83:LEU:O	1:A:84:ASP:C	2.50	0.53
1:A:149:TYR:HE1	1:A:282:GLU:OE1	1.91	0.53
1:A:250:ARG:O	1:A:531:ASN:ND2	2.42	0.53
1:A:1121:ASP:OD1	1:A:1122:ASP:N	2.42	0.53
1:B:60:LYS:O	1:B:63:GLY:N	2.38	0.53
1:B:743:VAL:CG1	1:B:745:ARG:HG3	2.38	0.53
1:C:631:LEU:HD13	1:C:636:LEU:HB3	1.90	0.53
1:C:676:ALA:O	1:C:677:GLU:C	2.50	0.53
1:C:1435:THR:HG23	1:C:1437:SER:N	2.23	0.53
1:D:61:VAL:HG12	1:D:61:VAL:O	2.08	0.53
1:D:1131:THR:CG2	1:D:1133:GLU:N	2.72	0.53
1:D:1388:THR:O	1:D:1388:THR:HG23	2.06	0.53
1:E:708:MET:O	1:E:710:LYS:N	2.41	0.53
1:E:1057:THR:HG22	1:E:1190:VAL:HG11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1220:ARG:N	1:E:1221:PRO:CD	2.71	0.53
1:E:1290:GLY:O	1:E:1291:ASP:CB	2.53	0.53
1:E:1304:THR:HG23	1:E:1335:LYS:HB2	1.89	0.53
1:F:953:ILE:O	1:F:954:ALA:C	2.50	0.53
1:F:1121:ASP:O	1:F:1125:ARG:HG3	2.08	0.53
2:G:322:ARG:HG3	2:G:326:ASN:OD1	2.09	0.53
2:G:372:ALA:HB1	2:G:381:GLN:O	2.08	0.53
2:G:454:ILE:HD13	2:G:454:ILE:C	2.33	0.53
2:H:243:TYR:CE1	2:H:405:ASP:HB3	2.43	0.53
2:H:449:LEU:CD2	2:H:451:VAL:HG13	2.27	0.53
2:I:249:LYS:HE2	2:I:258:ILE:HD11	1.90	0.53
2:I:295:LEU:CD1	2:I:319:LEU:HD13	2.39	0.53
2:J:132:TRP:HA	2:J:202:ARG:CZ	2.39	0.53
2:K:323:ASP:HB2	2:K:348:ALA:C	2.34	0.53
2:K:440:ALA:HB1	2:K:456:ASP:HB2	1.85	0.53
2:K:473:GLU:HG2	2:K:473:GLU:O	2.09	0.53
2:L:302:MET:HE2	2:L:333:GLU:CG	2.38	0.53
1:A:105:TYR:HD1	1:A:105:TYR:H	1.57	0.53
1:A:522:LEU:CG	1:A:705:LEU:HD21	2.38	0.53
1:A:572:THR:CG2	1:A:615:ARG:NE	2.72	0.53
1:A:1093:GLY:O	1:A:1096:SER:N	2.41	0.53
1:A:1207:VAL:HG13	1:A:1208:PRO:CD	2.39	0.53
1:A:1219:ALA:C	1:A:1221:PRO:HD2	2.34	0.53
1:A:1420:TYR:OH	1:A:1466:LEU:HD22	2.09	0.53
1:B:349:GLY:HA3	1:B:387:PRO:HG3	1.90	0.53
1:B:602:THR:O	1:B:640:THR:CG2	2.56	0.53
1:B:846:ILE:O	1:B:847:THR:C	2.48	0.53
1:B:1221:PRO:HB2	1:B:1229:MET:HE2	1.91	0.53
1:C:105:TYR:H	1:C:105:TYR:HD1	1.57	0.53
1:C:149:TYR:HE1	1:C:282:GLU:OE1	1.91	0.53
1:C:250:ARG:O	1:C:531:ASN:ND2	2.42	0.53
1:C:253:HIS:ND1	1:C:254:PRO:CG	2.71	0.53
1:C:294:VAL:O	1:C:295:LYS:C	2.47	0.53
1:C:317:ILE:CG2	1:C:321:ASN:HD21	2.19	0.53
1:C:520:MET:HE3	1:C:705:LEU:HD13	1.91	0.53
1:C:571:ALA:HB2	1:C:606:LEU:CD2	2.39	0.53
1:C:587:ARG:O	1:C:590:ARG:HB2	2.09	0.53
1:C:826:ARG:HG2	1:C:1046:GLU:OE2	2.07	0.53
1:C:1057:THR:HG22	1:C:1190:VAL:HG11	1.91	0.53
1:C:1070:ASP:OD1	1:C:1070:ASP:C	2.52	0.53
1:C:1121:ASP:OD1	1:C:1122:ASP:N	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:302:ALA:CA	1:D:347:ARG:NH1	2.72	0.53
1:D:526:LEU:N	1:D:526:LEU:CD1	2.64	0.53
1:D:629:THR:O	1:D:632:ILE:N	2.42	0.53
1:D:868:HIS:O	1:D:869:GLY:C	2.50	0.53
1:D:1228:LYS:HB2	1:F:900:GLY:C	2.33	0.53
1:D:1233:TYR:O	1:D:1268:LEU:HA	2.09	0.53
1:E:105:TYR:HD1	1:E:105:TYR:H	1.57	0.53
1:E:249:THR:OG1	1:E:635:ASN:HB3	2.07	0.53
1:E:496:HIS:O	1:E:653:HIS:CE1	2.61	0.53
1:E:518:ARG:NH2	1:E:1382:ASN:HD22	2.06	0.53
1:E:973:ASP:OD2	1:E:1298:LYS:CE	2.54	0.53
1:E:1391:MET:HE2	1:E:1458:VAL:HG21	1.76	0.53
1:F:763:ALA:O	1:F:765:ALA:N	2.42	0.53
1:F:1236:ARG:C	1:F:1238:THR:H	2.15	0.53
1:F:1468:VAL:O	1:F:1468:VAL:HG12	2.07	0.53
2:G:97:ILE:CG1	2:G:450:VAL:HG11	2.38	0.53
2:G:145:GLU:OE2	2:G:171:TYR:HE1	1.91	0.53
2:G:166:LEU:HD23	2:G:461:ALA:CB	2.36	0.53
2:H:317:LYS:NZ	2:H:345:ILE:HG21	2.23	0.53
2:H:465:HIS:NE2	2:H:469:LYS:HE3	2.24	0.53
2:H:469:LYS:NZ	2:H:476:VAL:HA	2.22	0.53
2:I:132:TRP:HA	2:I:202:ARG:CZ	2.39	0.53
2:I:238:VAL:HG23	2:I:439:ALA:CA	2.38	0.53
2:I:322:ARG:HG3	2:I:326:ASN:OD1	2.09	0.53
2:J:197:LYS:NZ	2:J:275:ASP:HB3	2.24	0.53
2:J:366:ARG:HE	2:J:391:GLN:CD	2.15	0.53
2:K:97:ILE:CG1	2:K:450:VAL:HG11	2.38	0.53
2:K:246:ARG:HD3	2:K:399:LEU:CB	2.33	0.53
2:L:49:GLN:HE22	2:L:69:LEU:CG	2.22	0.53
2:L:372:ALA:HB1	2:L:381:GLN:O	2.08	0.53
2:L:418:THR:N	2:L:424:LEU:HD22	2.23	0.53
2:L:469:LYS:NZ	2:L:476:VAL:HA	2.22	0.53
1:A:24:ALA:C	1:A:26:LYS:N	2.65	0.53
1:A:369:THR:HG22	1:A:1293:ASN:ND2	2.23	0.53
1:A:468:MET:HG2	1:A:699:ALA:CB	2.38	0.53
1:A:537:GLU:C	1:A:539:GLN:H	2.15	0.53
1:A:572:THR:HG23	1:A:615:ARG:HB3	1.90	0.53
1:A:643:ASN:ND2	1:A:665:THR:HB	2.22	0.53
1:A:659:ILE:HA	1:A:663:ALA:HB3	1.91	0.53
1:A:976:SER:O	1:A:979:ASP:HB2	2.08	0.53
1:A:1310:THR:O	1:A:1313:SER:N	2.33	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:223:GLN:HB3	1:B:224:PRO:CA	2.37	0.53
1:B:447:LEU:HD11	1:B:451:GLN:NE2	2.23	0.53
1:B:900:GLY:C	1:F:1228:LYS:HB2	2.33	0.53
1:C:369:THR:HG22	1:C:1293:ASN:ND2	2.23	0.53
1:C:608:ASP:OD2	1:C:646:THR:HA	2.09	0.53
1:C:838:VAL:HG12	1:C:839:PRO:CD	2.32	0.53
1:C:1220:ARG:N	1:C:1221:PRO:CD	2.71	0.53
1:D:111:PRO:C	1:D:112:ILE:HG23	2.33	0.53
1:D:443:ASP:O	1:D:445:ALA:N	2.41	0.53
1:D:1229:MET:CA	1:F:877:ARG:CG	2.78	0.53
1:D:1438:ARG:CZ	2:I:376:GLY:O	2.57	0.53
1:D:1470:VAL:O	1:D:1470:VAL:CG1	2.56	0.53
1:E:269:VAL:HG23	1:E:270:GLY:N	2.22	0.53
1:E:492:TYR:C	1:E:492:TYR:CD1	2.86	0.53
1:E:1236:ARG:C	1:E:1238:THR:H	2.17	0.53
1:F:574:PRO:HD3	1:F:615:ARG:HH12	1.74	0.53
1:F:615:ARG:HH11	1:F:615:ARG:HG2	1.73	0.53
2:G:94:CYS:HB3	2:G:98:CYS:SG	2.49	0.53
2:G:269:ASN:ND2	2:G:273:LEU:HD23	2.24	0.53
2:G:323:ASP:HB2	2:G:348:ALA:C	2.34	0.53
2:H:434:MET:HB2	2:H:437:VAL:HG11	1.87	0.53
2:I:302:MET:HE2	2:I:333:GLU:CG	2.38	0.53
2:I:317:LYS:HZ2	2:I:345:ILE:HG21	1.73	0.53
2:J:49:GLN:HE22	2:J:69:LEU:CG	2.22	0.53
2:J:94:CYS:HB3	2:J:98:CYS:SG	2.49	0.53
2:J:174:HIS:CE1	2:J:215:HIS:HB3	2.44	0.53
2:J:295:LEU:CD1	2:J:319:LEU:HD13	2.39	0.53
2:K:49:GLN:HE22	2:K:69:LEU:CG	2.22	0.53
2:K:249:LYS:HE2	2:K:258:ILE:HD11	1.90	0.53
2:K:322:ARG:HD2	2:K:349:ALA:CB	2.38	0.53
2:K:372:ALA:HB1	2:K:381:GLN:O	2.08	0.53
2:L:97:ILE:HD11	2:L:450:VAL:CB	2.37	0.53
2:L:238:VAL:HG23	2:L:439:ALA:CA	2.38	0.53
2:L:249:LYS:HE2	2:L:258:ILE:HD11	1.90	0.53
2:L:250:ALA:HB1	2:L:251:PRO:CD	2.33	0.53
2:L:269:ASN:ND2	2:L:273:LEU:HD23	2.24	0.53
2:L:432:THR:HG22	2:L:434:MET:N	2.15	0.53
1:A:253:HIS:CE1	1:A:254:PRO:HG2	2.44	0.53
1:A:518:ARG:NH2	1:A:1382:ASN:HD22	2.06	0.53
1:A:587:ARG:O	1:A:590:ARG:HB2	2.09	0.53
1:A:899:ASN:O	1:C:1263:HIS:CE1	2.62	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1374:VAL:C	1:A:1375:ILE:CG1	2.82	0.53
1:B:734:LEU:HD11	1:B:738:HIS:HD2	1.51	0.53
1:B:949:VAL:C	1:B:950:THR:O	2.48	0.53
1:C:73:VAL:O	1:C:172:LEU:HA	2.09	0.53
1:C:253:HIS:CE1	1:C:254:PRO:HG2	2.44	0.53
1:C:302:ALA:HA	1:C:347:ARG:NH1	2.23	0.53
1:C:443:ASP:O	1:C:446:GLU:N	2.28	0.53
1:C:537:GLU:C	1:C:539:GLN:H	2.15	0.53
1:C:1091:GLY:C	1:C:1092:ILE:HG13	2.34	0.53
1:C:1375:ILE:O	1:C:1377:GLY:N	2.39	0.53
1:D:953:ILE:O	1:D:954:ALA:C	2.50	0.53
1:E:1093:GLY:O	1:E:1096:SER:N	2.41	0.53
1:F:505:GLN:NE2	1:F:1001:VAL:N	2.55	0.53
1:F:629:THR:O	1:F:630:HIS:C	2.50	0.53
2:G:60:PRO:HB2	2:G:451:VAL:HG22	1.90	0.53
2:G:418:THR:N	2:G:424:LEU:HD22	2.23	0.53
2:G:454:ILE:HD13	2:G:458:ARG:HG2	1.91	0.53
2:H:269:ASN:ND2	2:H:273:LEU:HD23	2.24	0.53
2:H:371:VAL:HG21	2:H:386:SER:CB	2.39	0.53
2:I:416:LYS:HB2	2:I:416:LYS:NZ	2.24	0.53
2:I:429:THR:CB	2:I:431:MET:HE2	2.39	0.53
2:J:45:ASN:HD21	2:J:45:ASN:N	2.04	0.53
2:J:54:PHE:HB3	2:J:107:ASN:CB	2.36	0.53
2:L:174:HIS:CE1	2:L:215:HIS:HB3	2.44	0.53
2:L:276:THR:HG22	2:L:277:VAL:HG23	1.91	0.53
2:L:406:LEU:H	2:L:406:LEU:CD2	2.21	0.53
1:A:876:ASN:CG	1:C:1227:GLU:OE2	2.52	0.53
1:A:1263:HIS:CE1	1:E:899:ASN:O	2.62	0.53
1:B:1289:MET:CE	1:B:1289:MET:CB	2.87	0.53
1:B:1388:THR:O	1:B:1388:THR:HG23	2.06	0.53
1:C:67:PRO:HG3	1:C:105:TYR:OH	2.08	0.53
1:C:392:ALA:O	1:C:400:LEU:CD1	2.53	0.53
1:C:1112:THR:O	2:K:112:GLN:NE2	2.40	0.53
1:D:428:GLU:O	1:D:429:LEU:C	2.51	0.53
1:D:602:THR:O	1:D:640:THR:CG2	2.56	0.53
1:D:615:ARG:HH11	1:D:615:ARG:HG2	1.73	0.53
1:E:253:HIS:ND1	1:E:254:PRO:CG	2.71	0.53
1:E:1016:ALA:O	1:E:1017:ASN:HB2	2.08	0.53
1:E:1030:THR:N	4:E:2474:FMN:HM82	2.24	0.53
1:E:1121:ASP:OD1	1:E:1122:ASP:N	2.42	0.53
1:E:1216:VAL:HG11	1:E:1249:MET:HE2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1375:ILE:O	1:E:1377:GLY:N	2.39	0.53
1:F:437:GLY:O	1:F:438:GLU:C	2.48	0.53
1:F:443:ASP:O	1:F:445:ALA:N	2.41	0.53
1:F:1068:ARG:NE	1:F:1089:GLU:OE1	2.38	0.53
1:F:1080:VAL:HG12	1:F:1084:MET:HE3	1.90	0.53
1:F:1406:ASN:OD1	1:F:1406:ASN:C	2.48	0.53
2:G:85:GLN:CD	2:G:91:PRO:HG3	2.34	0.53
2:G:174:HIS:CE1	2:G:215:HIS:HB3	2.44	0.53
2:G:207:LEU:HG	2:G:214:TYR:OH	2.07	0.53
2:G:367:ILE:HD13	2:G:368:HIS:C	2.34	0.53
2:G:416:LYS:HB2	2:G:416:LYS:NZ	2.24	0.53
2:H:145:GLU:OE2	2:H:171:TYR:HE1	1.91	0.53
2:H:323:ASP:HB2	2:H:348:ALA:C	2.34	0.53
2:H:404:GLU:O	2:H:404:GLU:HG3	2.09	0.53
2:H:443:ILE:HD12	2:H:444:VAL:CA	2.39	0.53
2:H:454:ILE:HD13	2:H:454:ILE:C	2.33	0.53
2:I:350:PRO:HG2	2:I:373:ASP:O	2.09	0.53
2:I:372:ALA:HB1	2:I:381:GLN:O	2.08	0.53
2:J:60:PRO:HB2	2:J:451:VAL:HG22	1.90	0.53
2:J:322:ARG:HG3	2:J:326:ASN:OD1	2.09	0.53
2:J:371:VAL:HG21	2:J:386:SER:CB	2.39	0.53
2:J:429:THR:CB	2:J:431:MET:HE2	2.39	0.53
2:K:60:PRO:HB2	2:K:451:VAL:HG22	1.90	0.53
2:K:162:ALA:CB	2:K:237:LEU:HD12	2.38	0.53
2:K:238:VAL:HG23	2:K:439:ALA:CA	2.38	0.53
2:K:243:TYR:CE1	2:K:405:ASP:HB3	2.43	0.53
2:K:454:ILE:HD13	2:K:454:ILE:C	2.33	0.53
2:L:321:ARG:HD3	2:L:322:ARG:CB	2.37	0.53
2:L:454:ILE:HD13	2:L:458:ARG:HG2	1.91	0.53
1:A:317:ILE:CG2	1:A:321:ASN:HD21	2.19	0.53
1:A:496:HIS:O	1:A:653:HIS:CE1	2.61	0.53
1:A:520:MET:HE3	1:A:705:LEU:HD13	1.91	0.53
1:A:636:LEU:O	1:A:637:ARG:C	2.50	0.53
1:A:900:GLY:C	1:C:1228:LYS:CB	2.82	0.53
1:A:1228:LYS:CB	1:E:900:GLY:C	2.82	0.53
1:A:1349:ARG:HH11	1:A:1349:ARG:CG	2.22	0.53
1:A:1400:SER:O	1:A:1403:LEU:N	2.27	0.53
1:B:595:ASP:O	1:B:596:ALA:C	2.51	0.53
1:B:1233:TYR:O	1:B:1268:LEU:HA	2.09	0.53
1:C:244:MET:O	1:C:245:LYS:C	2.44	0.53
1:C:708:MET:O	1:C:710:LYS:N	2.41	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:805:ASP:O	1:C:805:ASP:CG	2.49	0.53
1:C:900:GLY:C	1:E:1228:LYS:CB	2.82	0.53
1:C:932:VAL:O	1:C:933:ALA:CB	2.45	0.53
1:C:1016:ALA:O	1:C:1017:ASN:HB2	2.08	0.53
1:C:1030:THR:N	4:C:2474:FMN:HM82	2.24	0.53
1:C:1375:ILE:HB	1:C:1394:VAL:HG22	1.91	0.53
1:D:1161:VAL:O	1:D:1161:VAL:CG1	2.57	0.53
1:E:175:ARG:NH2	1:E:203:ASP:OD2	2.42	0.53
1:E:561:TYR:C	1:E:561:TYR:CD1	2.86	0.53
1:E:571:ALA:HB2	1:E:606:LEU:CD2	2.39	0.53
1:E:1155:PHE:N	1:E:1155:PHE:CD1	2.77	0.53
1:E:1207:VAL:HG13	1:E:1208:PRO:CD	2.39	0.53
1:E:1316:GLU:O	1:E:1318:ASN:N	2.42	0.53
1:F:131:ILE:O	1:F:131:ILE:HG23	2.09	0.53
1:F:240:ASN:ND2	1:F:327:TRP:CD2	2.77	0.53
1:F:402:ARG:O	1:F:403:ASP:C	2.51	0.53
1:F:979:ASP:O	1:F:980:LEU:C	2.49	0.53
1:F:991:ASN:OD1	1:F:991:ASN:C	2.50	0.53
1:F:1131:THR:CG2	1:F:1133:GLU:N	2.72	0.53
2:G:244:LYS:HG3	2:G:402:GLU:O	2.08	0.53
2:H:197:LYS:NZ	2:H:275:ASP:HB3	2.24	0.53
2:H:350:PRO:HG2	2:H:373:ASP:O	2.09	0.53
2:I:60:PRO:HB2	2:I:451:VAL:HG22	1.90	0.53
2:I:322:ARG:HD2	2:I:349:ALA:CB	2.38	0.53
2:I:406:LEU:H	2:I:406:LEU:CD2	2.21	0.53
2:J:244:LYS:HG3	2:J:402:GLU:O	2.08	0.53
2:J:317:LYS:CE	2:J:345:ILE:HG21	2.38	0.53
2:K:292:VAL:HG22	2:K:394:LEU:CD1	2.30	0.53
2:K:317:LYS:CE	2:K:345:ILE:HG21	2.38	0.53
2:L:353:PHE:CE1	2:L:382:VAL:HG12	2.44	0.53
1:A:269:VAL:HG23	1:A:270:GLY:N	2.22	0.53
1:A:653:HIS:O	1:A:654:TYR:C	2.51	0.53
1:A:676:ALA:O	1:A:677:GLU:C	2.50	0.53
1:A:1316:GLU:O	1:A:1318:ASN:N	2.42	0.53
1:B:62:ILE:HG22	1:B:62:ILE:O	2.08	0.53
1:B:302:ALA:CA	1:B:347:ARG:NH1	2.72	0.53
1:B:615:ARG:HH11	1:B:615:ARG:HG2	1.73	0.53
1:B:763:ALA:O	1:B:765:ALA:N	2.42	0.53
1:B:823:MET:C	1:B:824:GLN:HE21	2.17	0.53
1:B:1058:LEU:O	1:B:1058:LEU:CD2	2.57	0.53
1:C:61:VAL:O	1:C:61:VAL:HG12	2.07	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:492:TYR:C	1:C:492:TYR:CD1	2.86	0.53
1:C:876:ASN:CG	1:E:1227:GLU:OE2	2.52	0.53
1:C:1061:LEU:O	1:C:1064:ARG:HB2	2.08	0.53
1:D:62:ILE:HG22	1:D:62:ILE:O	2.08	0.53
1:D:260:MET:O	1:D:261:GLN:C	2.48	0.53
1:D:447:LEU:HD11	1:D:451:GLN:NE2	2.23	0.53
1:D:529:LEU:HB3	1:D:638:THR:OG1	2.08	0.53
1:D:549:VAL:O	1:D:697:LYS:HE3	2.09	0.53
1:D:572:THR:HG22	1:D:573:PHE:N	2.16	0.53
1:D:763:ALA:O	1:D:765:ALA:N	2.42	0.53
1:D:855:THR:HG22	1:D:855:THR:O	2.09	0.53
1:D:1204:ARG:O	1:D:1205:ASN:C	2.51	0.53
1:E:31:ARG:NH1	1:E:368:GLU:OE2	2.42	0.53
1:F:528:ASN:HB3	1:F:542:LEU:HD22	1.91	0.53
1:F:823:MET:C	1:F:824:GLN:HE21	2.16	0.53
1:F:1047:MET:CE	1:F:1186:ARG:NH2	2.44	0.53
2:G:97:ILE:HD11	2:G:450:VAL:CB	2.37	0.53
2:G:243:TYR:CE1	2:G:405:ASP:HB3	2.43	0.53
2:H:271:VAL:HG11	2:H:284:SER:O	2.09	0.53
2:H:317:LYS:CE	2:H:345:ILE:HG21	2.38	0.53
2:H:345:ILE:HD13	2:H:345:ILE:N	2.17	0.53
2:H:350:PRO:HD2	2:H:374:ALA:CA	2.39	0.53
2:I:71:LEU:HD13	2:I:72:THR:N	2.24	0.53
2:I:94:CYS:HB3	2:I:98:CYS:SG	2.49	0.53
2:I:197:LYS:NZ	2:I:275:ASP:HB3	2.24	0.53
2:I:317:LYS:CE	2:I:345:ILE:HG21	2.38	0.53
2:I:350:PRO:HD2	2:I:374:ALA:CA	2.40	0.53
2:I:454:ILE:HD13	2:I:458:ARG:HG2	1.91	0.53
2:J:71:LEU:HD13	2:J:72:THR:N	2.24	0.53
2:J:323:ASP:HB2	2:J:348:ALA:C	2.34	0.53
2:J:415:LEU:CG	2:J:432:THR:HG23	2.34	0.53
2:J:465:HIS:NE2	2:J:469:LYS:HE3	2.24	0.53
2:K:85:GLN:CD	2:K:91:PRO:HG3	2.34	0.53
2:K:182:MET:HE2	2:K:216:PRO:HG3	1.91	0.53
2:K:197:LYS:NZ	2:K:275:ASP:HB3	2.24	0.53
2:K:454:ILE:HD13	2:K:458:ARG:HG2	1.91	0.53
2:L:71:LEU:HD13	2:L:72:THR:N	2.24	0.53
2:L:77:LEU:CA	2:L:127:ILE:HD11	2.39	0.53
2:L:110:ILE:HG13	2:L:117:ALA:CA	2.35	0.53
2:L:145:GLU:OE2	2:L:171:TYR:HE1	1.91	0.53
2:L:186:LEU:HD21	2:L:195:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:295:LEU:CD1	2:L:319:LEU:HD13	2.39	0.53
2:L:473:GLU:HG2	2:L:473:GLU:O	2.08	0.53
1:A:1122:ASP:O	1:A:1126:GLN:HG3	2.09	0.52
1:B:474:GLU:O	1:B:475:ALA:C	2.52	0.52
1:B:574:PRO:HD3	1:B:615:ARG:HH12	1.74	0.52
1:B:1227:GLU:OE2	1:D:876:ASN:ND2	2.43	0.52
1:C:175:ARG:NH2	1:C:203:ASP:OD2	2.42	0.52
1:C:653:HIS:O	1:C:654:TYR:C	2.51	0.52
1:C:1080:VAL:CG1	1:C:1084:MET:HE3	2.39	0.52
1:C:1122:ASP:O	1:C:1126:GLN:HG3	2.09	0.52
1:D:500:ARG:HD2	1:D:728:ILE:CG2	2.39	0.52
1:D:672:GLN:HG3	1:D:693:MET:SD	2.49	0.52
1:E:266:VAL:O	1:E:279:THR:HG23	2.08	0.52
1:E:631:LEU:HD13	1:E:636:LEU:HB3	1.90	0.52
1:E:1212:ASP:OD1	1:E:1243:GLY:N	2.24	0.52
1:E:1438:ARG:CB	2:K:376:GLY:H	1.95	0.52
1:F:484:PRO:HG3	1:F:823:MET:CG	2.39	0.52
1:F:690:GLU:CD	1:F:690:GLU:H	2.15	0.52
1:F:830:GLU:HG2	1:F:831:LEU:N	2.24	0.52
2:G:249:LYS:HE2	2:G:258:ILE:HD11	1.90	0.52
2:G:350:PRO:HG2	2:G:373:ASP:O	2.09	0.52
2:G:445:ARG:HG2	2:G:445:ARG:O	2.09	0.52
2:H:97:ILE:CD1	2:H:450:VAL:HG11	2.39	0.52
2:H:295:LEU:CD1	2:H:319:LEU:HD13	2.39	0.52
2:I:174:HIS:CE1	2:I:215:HIS:HB3	2.44	0.52
2:I:207:LEU:HG	2:I:214:TYR:OH	2.07	0.52
2:J:144:ARG:HH11	2:J:169:LYS:HA	1.74	0.52
2:J:269:ASN:ND2	2:J:273:LEU:HD23	2.24	0.52
2:J:404:GLU:O	2:J:404:GLU:HG3	2.09	0.52
2:J:443:ILE:HD12	2:J:444:VAL:CA	2.39	0.52
2:J:473:GLU:HG2	2:J:473:GLU:O	2.08	0.52
2:K:81:TYR:CZ	2:K:85:GLN:HG3	2.44	0.52
2:K:271:VAL:HG11	2:K:284:SER:O	2.09	0.52
2:K:465:HIS:NE2	2:K:469:LYS:HE3	2.24	0.52
2:L:317:LYS:HZ2	2:L:345:ILE:HG21	1.75	0.52
2:L:323:ASP:HB2	2:L:348:ALA:C	2.34	0.52
2:L:367:ILE:HD13	2:L:368:HIS:C	2.34	0.52
1:A:317:ILE:C	1:A:321:ASN:HD22	2.18	0.52
1:A:353:MET:CE	1:A:366:GLY:C	2.82	0.52
1:A:442:MET:HE3	1:A:447:LEU:N	2.24	0.52
1:A:561:TYR:C	1:A:561:TYR:CD1	2.86	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:100:PHE:O	1:B:137:LYS:CE	2.46	0.52
1:B:281:PHE:O	1:B:285:VAL:HG23	2.09	0.52
1:B:500:ARG:HD2	1:B:728:ILE:CG2	2.39	0.52
1:B:672:GLN:HG3	1:B:693:MET:SD	2.49	0.52
1:B:1159:ASN:C	1:B:1161:VAL:N	2.66	0.52
1:B:1323:ILE:HD12	1:B:1327:VAL:HG21	1.91	0.52
1:C:430:VAL:HG11	1:C:554:GLU:HB2	1.88	0.52
1:C:660:GLY:HA2	1:C:721:GLY:H	1.74	0.52
1:D:602:THR:O	1:D:640:THR:HA	2.09	0.52
1:D:830:GLU:HG2	1:D:831:LEU:N	2.24	0.52
1:D:917:VAL:HG13	1:D:922:LEU:HD21	1.90	0.52
1:D:1058:LEU:O	1:D:1058:LEU:CD2	2.57	0.52
1:D:1159:ASN:C	1:D:1161:VAL:N	2.66	0.52
1:E:353:MET:CE	1:E:366:GLY:C	2.82	0.52
1:E:389:GLU:HA	1:E:403:ASP:OD2	2.09	0.52
1:E:608:ASP:OD2	1:E:646:THR:HA	2.09	0.52
1:E:1007:GLY:N	1:E:1051:GLU:OE2	2.41	0.52
1:E:1374:VAL:C	1:E:1375:ILE:CG1	2.82	0.52
1:E:1375:ILE:HB	1:E:1394:VAL:HG22	1.91	0.52
1:E:1427:LEU:O	1:E:1430:GLU:N	2.42	0.52
1:F:281:PHE:O	1:F:285:VAL:HG23	2.09	0.52
1:F:302:ALA:CA	1:F:347:ARG:NH1	2.72	0.52
1:F:349:GLY:HA3	1:F:387:PRO:HG3	1.90	0.52
1:F:672:GLN:HG3	1:F:693:MET:SD	2.49	0.52
1:F:781:PHE:O	2:I:52:VAL:HB	1.92	0.52
1:F:1008:THR:HG22	1:F:1009:ILE:H	1.70	0.52
2:G:97:ILE:CD1	2:G:450:VAL:HG11	2.39	0.52
2:G:276:THR:HG22	2:G:277:VAL:HG23	1.91	0.52
2:G:322:ARG:HD3	2:G:349:ALA:CA	2.39	0.52
2:H:174:HIS:CE1	2:H:215:HIS:HB3	2.44	0.52
2:H:322:ARG:HD2	2:H:349:ALA:CB	2.38	0.52
2:I:249:LYS:HE2	2:I:258:ILE:HD13	1.91	0.52
2:I:321:ARG:HD3	2:I:322:ARG:CB	2.37	0.52
2:K:322:ARG:HG3	2:K:326:ASN:OD1	2.09	0.52
2:K:443:ILE:HD12	2:K:444:VAL:CA	2.39	0.52
2:L:244:LYS:HG3	2:L:402:GLU:O	2.09	0.52
2:L:249:LYS:HE2	2:L:258:ILE:HD13	1.91	0.52
2:L:429:THR:CB	2:L:431:MET:HE2	2.39	0.52
2:L:469:LYS:CD	2:L:476:VAL:HB	2.38	0.52
1:A:608:ASP:OD2	1:A:646:THR:HA	2.09	0.52
1:B:240:ASN:ND2	1:B:327:TRP:CD2	2.77	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:381:GLU:CD	1:B:402:ARG:NH1	2.67	0.52
1:B:1470:VAL:O	1:B:1470:VAL:HG13	2.08	0.52
1:C:499:PHE:CE2	1:C:742:MET:HE1	2.27	0.52
1:C:845:SER:O	1:C:848:ALA:HB3	2.10	0.52
1:C:1214:ARG:O	1:C:1215:ILE:C	2.52	0.52
1:C:1219:ALA:C	1:C:1221:PRO:HD2	2.33	0.52
1:C:1243:GLY:O	1:C:1244:THR:C	2.49	0.52
1:C:1385:ALA:HB2	1:C:1406:ASN:HD22	1.74	0.52
1:D:24:ALA:C	1:D:26:LYS:N	2.65	0.52
1:D:1442:GLU:OE2	2:I:375:THR:HA	2.08	0.52
1:E:572:THR:CG2	1:E:615:ARG:NE	2.72	0.52
1:E:1091:GLY:C	1:E:1092:ILE:HG13	2.34	0.52
1:F:428:GLU:O	1:F:429:LEU:C	2.51	0.52
1:F:621:ILE:HG12	1:F:657:VAL:CG1	2.40	0.52
1:F:766:TYR:C	1:F:768:GLU:H	2.18	0.52
2:G:197:LYS:NZ	2:G:275:ASP:HB3	2.24	0.52
2:G:295:LEU:CD1	2:G:319:LEU:HD13	2.39	0.52
2:G:469:LYS:CD	2:G:476:VAL:HB	2.38	0.52
2:H:81:TYR:CZ	2:H:85:GLN:HG3	2.44	0.52
2:H:182:MET:HE2	2:H:216:PRO:HG3	1.92	0.52
2:H:276:THR:HG22	2:H:277:VAL:HG23	1.91	0.52
2:H:473:GLU:HG2	2:H:473:GLU:O	2.08	0.52
2:I:215:HIS:CD2	2:I:218:PHE:CD1	2.98	0.52
2:I:249:LYS:HG3	2:I:258:ILE:CD1	2.39	0.52
2:I:323:ASP:HB2	2:I:348:ALA:C	2.34	0.52
2:K:153:ILE:HG21	2:K:238:VAL:HG12	1.90	0.52
2:K:174:HIS:CE1	2:K:215:HIS:HB3	2.44	0.52
2:K:244:LYS:HG3	2:K:402:GLU:O	2.08	0.52
2:K:317:LYS:NZ	2:K:345:ILE:HG21	2.24	0.52
2:L:45:ASN:HD21	2:L:45:ASN:H	1.57	0.52
2:L:153:ILE:HG21	2:L:238:VAL:HG12	1.90	0.52
2:L:349:ALA:HB3	2:L:350:PRO:CD	2.39	0.52
2:L:469:LYS:HD2	2:L:476:VAL:CB	2.39	0.52
1:A:302:ALA:HA	1:A:347:ARG:NH1	2.23	0.52
1:A:1080:VAL:CG1	1:A:1084:MET:HE3	2.39	0.52
1:A:1290:GLY:O	1:A:1291:ASP:CB	2.53	0.52
1:A:1427:LEU:O	1:A:1430:GLU:N	2.42	0.52
1:B:549:VAL:O	1:B:697:LYS:HE3	2.10	0.52
1:B:766:TYR:C	1:B:768:GLU:H	2.18	0.52
1:B:830:GLU:HG2	1:B:831:LEU:N	2.24	0.52
1:B:1452:THR:HG22	1:B:1453:LYS:HG3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:659:ILE:HA	1:C:663:ALA:HB3	1.91	0.52
1:C:1011:ALA:O	1:C:1014:ALA:HB3	2.09	0.52
1:C:1207:VAL:HG13	1:C:1208:PRO:CD	2.39	0.52
1:D:342:VAL:HG12	1:D:343:GLY:N	2.24	0.52
1:D:446:GLU:O	1:D:449:ARG:N	2.43	0.52
1:D:474:GLU:O	1:D:475:ALA:C	2.52	0.52
1:D:1227:GLU:OE2	1:F:902:ASN:CG	2.42	0.52
1:D:1326:THR:HG22	1:D:1326:THR:O	2.10	0.52
1:E:587:ARG:O	1:E:590:ARG:HB2	2.09	0.52
1:E:843:VAL:HG12	1:E:844:GLU:H	1.70	0.52
1:F:419:TRP:O	1:F:540:THR:CB	2.58	0.52
1:F:549:VAL:O	1:F:697:LYS:HE3	2.10	0.52
1:F:868:HIS:O	1:F:869:GLY:C	2.50	0.52
1:F:949:VAL:C	1:F:950:THR:O	2.48	0.52
2:G:153:ILE:HG21	2:G:238:VAL:HG12	1.90	0.52
2:G:249:LYS:HE2	2:G:258:ILE:HD13	1.91	0.52
2:G:322:ARG:HD2	2:G:349:ALA:CB	2.38	0.52
2:H:322:ARG:HD3	2:H:349:ALA:CA	2.39	0.52
2:H:415:LEU:CG	2:H:432:THR:HG23	2.34	0.52
2:I:269:ASN:ND2	2:I:273:LEU:HD23	2.24	0.52
2:I:302:MET:HE1	2:I:334:VAL:HG13	1.92	0.52
2:I:469:LYS:CD	2:I:476:VAL:HB	2.38	0.52
2:I:473:GLU:O	2:I:473:GLU:HG2	2.09	0.52
2:J:145:GLU:OE2	2:J:171:TYR:HE1	1.91	0.52
2:J:418:THR:HG1	2:J:420:TRP:HD1	1.57	0.52
2:K:97:ILE:CD1	2:K:450:VAL:HG11	2.39	0.52
2:L:350:PRO:HG2	2:L:373:ASP:O	2.09	0.52
1:A:414:LYS:CB	1:A:415:PRO:CD	2.87	0.52
1:A:499:PHE:CE2	1:A:742:MET:HE1	2.27	0.52
1:A:804:ASN:O	1:A:805:ASP:HB3	2.08	0.52
1:A:826:ARG:HG2	1:A:1046:GLU:OE2	2.07	0.52
1:A:1091:GLY:C	1:A:1092:ILE:HG13	2.34	0.52
1:A:1155:PHE:N	1:A:1155:PHE:CD1	2.77	0.52
1:A:1227:GLU:OE2	1:E:876:ASN:CG	2.52	0.52
1:A:1243:GLY:O	1:A:1244:THR:C	2.49	0.52
1:B:419:TRP:O	1:B:540:THR:CB	2.58	0.52
1:B:602:THR:O	1:B:640:THR:HA	2.09	0.52
1:B:991:ASN:OD1	1:B:991:ASN:C	2.50	0.52
1:B:1326:THR:HG22	1:B:1326:THR:O	2.10	0.52
1:C:9:ILE:HG13	1:C:361:GLY:C	2.35	0.52
1:C:87:GLU:O	1:C:88:ALA:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:389:GLU:HA	1:C:403:ASP:OD2	2.09	0.52
1:C:442:MET:HE3	1:C:447:LEU:N	2.24	0.52
1:C:782:ARG:HG2	2:K:53:PRO:HD2	0.55	0.52
1:C:843:VAL:HG12	1:C:844:GLU:H	1.70	0.52
1:D:60:LYS:O	1:D:63:GLY:N	2.38	0.52
1:D:485:ILE:O	1:D:488:LEU:N	2.43	0.52
1:D:823:MET:C	1:D:824:GLN:HE21	2.17	0.52
1:E:253:HIS:CE1	1:E:254:PRO:HG2	2.44	0.52
1:E:414:LYS:CB	1:E:415:PRO:CD	2.87	0.52
1:E:572:THR:HG23	1:E:615:ARG:HB3	1.90	0.52
1:E:918:THR:O	1:E:919:ALA:C	2.51	0.52
1:E:1401:LEU:O	1:E:1401:LEU:CD1	2.53	0.52
1:F:223:GLN:HB3	1:F:224:PRO:CA	2.37	0.52
2:G:49:GLN:HE22	2:G:69:LEU:CG	2.22	0.52
2:G:182:MET:HE2	2:G:216:PRO:HG3	1.92	0.52
2:G:215:HIS:CD2	2:G:218:PHE:CD1	2.98	0.52
2:G:249:LYS:HG3	2:G:258:ILE:CD1	2.39	0.52
2:H:186:LEU:HD21	2:H:195:LEU:HD11	1.91	0.52
2:I:145:GLU:OE2	2:I:171:TYR:HE1	1.91	0.52
2:I:244:LYS:HG3	2:I:402:GLU:O	2.08	0.52
2:I:443:ILE:HD12	2:I:444:VAL:CA	2.39	0.52
2:I:469:LYS:HD2	2:I:476:VAL:CB	2.39	0.52
2:J:249:LYS:HG3	2:J:258:ILE:CD1	2.39	0.52
2:J:454:ILE:HD13	2:J:458:ARG:HG2	1.91	0.52
2:K:68:TRP:HB2	2:K:80:ALA:HB1	1.91	0.52
2:K:144:ARG:HH11	2:K:169:LYS:HA	1.74	0.52
2:K:197:LYS:HZ3	2:K:275:ASP:HB3	1.74	0.52
2:K:215:HIS:CD2	2:K:218:PHE:CD1	2.98	0.52
2:K:350:PRO:HD2	2:K:374:ALA:CA	2.40	0.52
2:K:350:PRO:HG2	2:K:373:ASP:O	2.09	0.52
2:K:367:ILE:HD13	2:K:368:HIS:C	2.34	0.52
2:L:243:TYR:CE1	2:L:405:ASP:HB3	2.43	0.52
1:A:660:GLY:HA2	1:A:721:GLY:H	1.74	0.52
1:A:731:SER:CA	1:A:747:SER:HB2	2.40	0.52
1:A:1057:THR:HG22	1:A:1190:VAL:HG11	1.91	0.52
1:A:1250:VAL:HG13	1:A:1254:PHE:HD2	1.75	0.52
1:B:710:LYS:HG2	1:B:939:GLY:CA	2.18	0.52
1:B:855:THR:HG22	1:B:855:THR:O	2.09	0.52
1:B:1075:THR:CG2	1:B:1076:GLY:N	2.73	0.52
1:C:230:HIS:CE1	1:C:234:ILE:HG13	2.35	0.52
1:C:316:LEU:O	1:C:317:ILE:C	2.53	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1155:PHE:N	1:C:1155:PHE:CD1	2.77	0.52
1:C:1420:TYR:OH	1:C:1466:LEU:HD22	2.09	0.52
1:C:1438:ARG:O	1:C:1440:ALA:N	2.42	0.52
1:D:136:ASN:OD1	1:D:136:ASN:N	2.38	0.52
1:D:443:ASP:O	1:D:446:GLU:N	2.40	0.52
1:D:447:LEU:CD1	1:D:451:GLN:CD	2.83	0.52
1:D:484:PRO:HG3	1:D:823:MET:CG	2.39	0.52
1:D:574:PRO:HD3	1:D:615:ARG:HH12	1.74	0.52
1:D:1047:MET:O	1:D:1048:GLY:C	2.53	0.52
1:D:1221:PRO:HB2	1:D:1229:MET:HE2	1.91	0.52
1:D:1227:GLU:OE2	1:F:876:ASN:ND2	2.43	0.52
1:D:1323:ILE:HD12	1:D:1327:VAL:HG21	1.91	0.52
1:E:160:LYS:O	1:E:161:GLY:C	2.50	0.52
1:E:1214:ARG:O	1:E:1215:ILE:C	2.52	0.52
1:F:260:MET:O	1:F:263:LEU:CB	2.55	0.52
1:F:602:THR:O	1:F:640:THR:HA	2.09	0.52
1:F:602:THR:O	1:F:640:THR:CG2	2.56	0.52
1:F:1338:ALA:O	1:F:1340:GLY:N	2.43	0.52
1:F:1394:VAL:HG11	1:F:1401:LEU:CD2	2.40	0.52
1:F:1438:ARG:CZ	2:G:376:GLY:O	2.57	0.52
2:G:353:PHE:CE1	2:G:382:VAL:HG12	2.44	0.52
2:H:454:ILE:HD13	2:H:458:ARG:HG2	1.91	0.52
2:I:49:GLN:HE22	2:I:69:LEU:CG	2.22	0.52
2:I:97:ILE:HD11	2:I:450:VAL:HB	1.92	0.52
2:I:186:LEU:HD21	2:I:195:LEU:HD11	1.91	0.52
2:I:353:PHE:CE1	2:I:382:VAL:HG12	2.44	0.52
2:I:465:HIS:NE2	2:I:469:LYS:HE3	2.24	0.52
2:J:90:PHE:HB3	2:J:93:ILE:HG22	1.86	0.52
2:J:186:LEU:HD21	2:J:195:LEU:HD11	1.91	0.52
2:J:276:THR:HG22	2:J:277:VAL:HG23	1.91	0.52
2:J:449:LEU:HD11	2:J:451:VAL:CG1	2.31	0.52
2:K:295:LEU:CD1	2:K:319:LEU:HD13	2.39	0.52
2:L:60:PRO:HB2	2:L:451:VAL:HG22	1.90	0.52
2:L:97:ILE:CD1	2:L:450:VAL:HG11	2.39	0.52
2:L:215:HIS:CD2	2:L:218:PHE:CD1	2.98	0.52
2:L:445:ARG:HG2	2:L:445:ARG:O	2.10	0.52
1:A:31:ARG:NH1	1:A:368:GLU:OE2	2.42	0.52
1:A:160:LYS:O	1:A:161:GLY:C	2.50	0.52
1:A:571:ALA:HB2	1:A:606:LEU:CD2	2.39	0.52
1:A:1030:THR:N	4:A:2474:FMN:HM82	2.24	0.52
1:B:342:VAL:HG12	1:B:343:GLY:N	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1376:LEU:HB3	1:B:1439:PHE:HE2	1.75	0.52
1:B:1470:VAL:O	1:B:1470:VAL:CG1	2.56	0.52
1:C:414:LYS:CB	1:C:415:PRO:CD	2.87	0.52
1:C:572:THR:CG2	1:C:615:ARG:NE	2.72	0.52
1:D:349:GLY:HA3	1:D:387:PRO:HG3	1.90	0.52
1:D:1438:ARG:O	1:D:1441:ALA:N	2.43	0.52
1:D:1452:THR:HG22	1:D:1453:LYS:HG3	1.91	0.52
1:E:73:VAL:O	1:E:172:LEU:HA	2.09	0.52
1:E:250:ARG:O	1:E:531:ASN:ND2	2.42	0.52
1:E:442:MET:HE3	1:E:447:LEU:N	2.24	0.52
1:E:528:ASN:C	1:E:529:LEU:HD23	2.35	0.52
1:E:572:THR:CG2	1:E:573:PHE:N	2.73	0.52
1:E:731:SER:HA	1:E:747:SER:CA	2.40	0.52
1:E:731:SER:CA	1:E:747:SER:HB2	2.40	0.52
1:E:736:ALA:O	1:E:737:GLU:C	2.53	0.52
1:E:1122:ASP:O	1:E:1126:GLN:HG3	2.09	0.52
1:F:447:LEU:CD1	1:F:451:GLN:CD	2.83	0.52
1:F:474:GLU:O	1:F:475:ALA:C	2.52	0.52
1:F:500:ARG:HD2	1:F:728:ILE:CG2	2.39	0.52
1:F:1401:LEU:HB3	1:F:1402:PRO:HD3	1.91	0.52
1:F:1447:TRP:CD2	1:F:1451:VAL:HG22	2.45	0.52
2:G:45:ASN:HD21	2:G:45:ASN:H	1.57	0.52
2:G:54:PHE:HB3	2:G:107:ASN:CB	2.36	0.52
2:G:144:ARG:HH11	2:G:169:LYS:HA	1.74	0.52
2:G:406:LEU:H	2:G:406:LEU:CD2	2.21	0.52
2:G:417:VAL:CG1	2:G:421:GLY:HA2	2.40	0.52
2:G:443:ILE:HD12	2:G:444:VAL:CA	2.39	0.52
2:H:60:PRO:HB2	2:H:451:VAL:HG22	1.90	0.52
2:H:71:LEU:HD13	2:H:72:THR:N	2.24	0.52
2:H:77:LEU:CA	2:H:127:ILE:HD11	2.39	0.52
2:H:249:LYS:HE2	2:H:258:ILE:HD11	1.90	0.52
2:H:302:MET:HE1	2:H:334:VAL:HG13	1.92	0.52
2:H:320:TYR:CD2	2:H:346:TRP:CG	2.98	0.52
2:H:417:VAL:CG1	2:H:421:GLY:HA2	2.40	0.52
2:H:429:THR:CB	2:H:431:MET:HE2	2.39	0.52
2:I:77:LEU:CA	2:I:127:ILE:HD11	2.40	0.52
2:I:81:TYR:CZ	2:I:85:GLN:HG3	2.44	0.52
2:I:276:THR:HG22	2:I:277:VAL:HG23	1.91	0.52
2:I:404:GLU:O	2:I:404:GLU:HG3	2.09	0.52
2:I:445:ARG:HG2	2:I:445:ARG:O	2.09	0.52
2:J:416:LYS:HB2	2:J:416:LYS:NZ	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:322:ARG:HD3	2:K:349:ALA:CA	2.39	0.52
2:K:416:LYS:HB2	2:K:416:LYS:NZ	2.24	0.52
2:L:271:VAL:HG11	2:L:284:SER:O	2.09	0.52
2:L:320:TYR:CD2	2:L:346:TRP:CG	2.98	0.52
2:L:322:ARG:HD3	2:L:349:ALA:CA	2.39	0.52
2:L:465:HIS:NE2	2:L:469:LYS:HE3	2.24	0.52
1:A:1:CYS:HB3	3:A:2473:OMT:HE1	1.92	0.52
1:A:430:VAL:HG11	1:A:554:GLU:HB2	1.88	0.52
1:A:855:THR:HG22	1:A:855:THR:O	2.10	0.52
1:A:1011:ALA:O	1:A:1014:ALA:HB3	2.09	0.52
1:A:1113:CYS:O	1:A:1115:VAL:N	2.42	0.52
1:A:1438:ARG:O	1:A:1440:ALA:N	2.42	0.52
1:B:260:MET:O	1:B:261:GLN:C	2.48	0.52
1:B:484:PRO:HG3	1:B:823:MET:CG	2.39	0.52
1:C:143:GLN:O	1:C:143:GLN:NE2	2.41	0.52
1:C:266:VAL:CG1	1:C:279:THR:HG23	2.33	0.52
1:C:295:LYS:C	1:C:295:LYS:CD	2.83	0.52
1:C:602:THR:C	1:C:640:THR:CG2	2.83	0.52
1:D:537:GLU:HG3	1:D:538:THR:N	2.08	0.52
1:D:629:THR:O	1:D:630:HIS:C	2.51	0.52
1:D:710:LYS:HG2	1:D:939:GLY:CA	2.18	0.52
1:D:1470:VAL:O	1:D:1470:VAL:HG13	2.08	0.52
1:E:316:LEU:O	1:E:317:ILE:C	2.53	0.52
1:E:636:LEU:C	1:E:638:THR:N	2.68	0.52
1:E:1354:THR:HA	1:E:1372:THR:O	2.10	0.52
1:F:175:ARG:HG3	1:F:175:ARG:NH1	2.23	0.52
1:F:537:GLU:HG3	1:F:538:THR:N	2.08	0.52
1:F:1428:ILE:HG22	1:F:1428:ILE:O	2.10	0.52
2:G:429:THR:CB	2:G:431:MET:HE2	2.39	0.52
2:H:49:GLN:HE22	2:H:69:LEU:CG	2.22	0.52
2:H:85:GLN:CD	2:H:91:PRO:HG3	2.34	0.52
2:H:144:ARG:HH11	2:H:169:LYS:HA	1.74	0.52
2:H:353:PHE:CE1	2:H:382:VAL:HG12	2.44	0.52
2:H:406:LEU:H	2:H:406:LEU:CD2	2.21	0.52
2:J:97:ILE:CD1	2:J:450:VAL:HG11	2.39	0.52
2:J:320:TYR:CD2	2:J:346:TRP:CG	2.98	0.52
2:J:367:ILE:HD13	2:J:368:HIS:O	2.10	0.52
2:J:406:LEU:H	2:J:406:LEU:CD2	2.21	0.52
2:K:269:ASN:ND2	2:K:273:LEU:HD23	2.24	0.52
2:L:81:TYR:CZ	2:L:85:GLN:HG3	2.44	0.52
2:L:249:LYS:HG3	2:L:258:ILE:CD1	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:404:GLU:O	2:L:404:GLU:HG3	2.09	0.52
1:A:295:LYS:C	1:A:295:LYS:CD	2.83	0.52
1:A:432:THR:O	1:A:434:SER:N	2.43	0.52
1:A:1236:ARG:C	1:A:1238:THR:H	2.17	0.52
1:B:528:ASN:HB3	1:B:542:LEU:HD22	1.91	0.52
1:B:1394:VAL:HG11	1:B:1401:LEU:CD2	2.40	0.52
1:C:85:ALA:O	1:C:86:GLN:C	2.48	0.52
1:C:94:GLU:HG2	1:C:104:ILE:HD13	1.92	0.52
1:C:317:ILE:C	1:C:321:ASN:HD22	2.18	0.52
1:C:432:THR:O	1:C:434:SER:N	2.43	0.52
1:C:531:ASN:C	1:C:533:LEU:H	2.18	0.52
1:C:731:SER:CA	1:C:747:SER:HB2	2.40	0.52
1:C:1349:ARG:HH11	1:C:1349:ARG:CG	2.22	0.52
1:C:1401:LEU:O	1:C:1401:LEU:CD1	2.53	0.52
1:D:131:ILE:O	1:D:131:ILE:HG23	2.09	0.52
1:D:240:ASN:ND2	1:D:327:TRP:CD2	2.77	0.52
1:D:781:PHE:CD2	2:H:57:VAL:HG21	2.45	0.52
1:D:875:MET:O	1:D:876:ASN:C	2.47	0.52
1:D:1424:LEU:O	1:D:1425:LYS:C	2.53	0.52
1:D:1428:ILE:HG22	1:D:1428:ILE:O	2.10	0.52
1:E:21:GLY:O	1:E:22:ILE:C	2.49	0.52
1:E:85:ALA:O	1:E:86:GLN:C	2.48	0.52
1:E:295:LYS:C	1:E:295:LYS:CD	2.83	0.52
1:E:392:ALA:O	1:E:400:LEU:CD1	2.53	0.52
1:E:432:THR:O	1:E:434:SER:N	2.43	0.52
1:E:805:ASP:O	1:E:805:ASP:CG	2.49	0.52
1:F:253:HIS:CE1	1:F:254:PRO:CD	2.88	0.52
1:F:342:VAL:HG12	1:F:343:GLY:N	2.24	0.52
1:F:1161:VAL:O	1:F:1161:VAL:CG1	2.57	0.52
2:G:81:TYR:CZ	2:G:85:GLN:HG3	2.44	0.52
2:G:144:ARG:HG2	2:G:145:GLU:N	2.25	0.52
2:H:215:HIS:CD2	2:H:218:PHE:CD1	2.98	0.52
2:H:367:ILE:HD13	2:H:368:HIS:C	2.34	0.52
2:I:320:TYR:CD2	2:I:346:TRP:CG	2.98	0.52
2:J:68:TRP:CZ3	2:J:84:SER:CB	2.93	0.52
2:J:85:GLN:CD	2:J:91:PRO:HG3	2.34	0.52
2:J:97:ILE:HD11	2:J:450:VAL:HB	1.92	0.52
2:J:144:ARG:HG2	2:J:145:GLU:N	2.25	0.52
2:J:215:HIS:CD2	2:J:218:PHE:CD1	2.98	0.52
2:J:350:PRO:HG2	2:J:373:ASP:O	2.09	0.52
2:J:367:ILE:HD13	2:J:368:HIS:C	2.34	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:180:ASP:O	2:K:182:MET:HE1	2.10	0.52
2:L:197:LYS:NZ	2:L:275:ASP:HB3	2.24	0.52
1:A:175:ARG:NH2	1:A:203:ASP:OD2	2.42	0.52
1:A:244:MET:HA	1:A:247:HIS:HB2	1.92	0.52
1:A:602:THR:C	1:A:640:THR:CG2	2.83	0.52
1:A:1274:GLN:HE21	1:A:1293:ASN:HB3	1.74	0.52
1:A:1375:ILE:HB	1:A:1394:VAL:HG22	1.91	0.52
1:B:505:GLN:NE2	1:B:1001:VAL:N	2.55	0.52
1:B:536:ASP:OD1	1:B:536:ASP:O	2.28	0.52
1:B:806:SER:HG	1:B:809:THR:H	1.58	0.52
1:C:142:GLU:CD	1:C:142:GLU:N	2.58	0.52
1:C:197:ASP:OD1	1:C:199:ARG:N	2.38	0.52
1:C:1354:THR:HA	1:C:1372:THR:O	2.10	0.52
1:D:1113:CYS:O	1:D:1114:PRO:C	2.48	0.52
1:E:295:LYS:HE2	1:E:299:VAL:HG12	1.90	0.52
1:E:1113:CYS:O	1:E:1115:VAL:N	2.42	0.52
1:E:1438:ARG:O	1:E:1440:ALA:N	2.42	0.52
1:F:985:TYR:CE1	1:F:1207:VAL:HG11	2.45	0.52
1:F:1245:ARG:HG3	1:F:1245:ARG:O	2.10	0.52
1:F:1289:MET:CE	1:F:1289:MET:CB	2.87	0.52
2:G:186:LEU:HD21	2:G:195:LEU:HD11	1.91	0.52
2:G:320:TYR:CD2	2:G:346:TRP:CE2	2.98	0.52
2:H:68:TRP:HB2	2:H:80:ALA:HB1	1.91	0.52
2:H:180:ASP:O	2:H:182:MET:HE1	2.10	0.52
2:H:320:TYR:CD2	2:H:346:TRP:CE2	2.98	0.52
2:H:416:LYS:HB2	2:H:416:LYS:NZ	2.24	0.52
2:I:68:TRP:CZ3	2:I:84:SER:CB	2.93	0.52
2:I:144:ARG:HH11	2:I:169:LYS:HA	1.74	0.52
2:I:322:ARG:HD3	2:I:349:ALA:CA	2.39	0.52
2:I:416:LYS:HZ2	2:I:433:ASN:HB2	1.74	0.52
2:J:45:ASN:HD21	2:J:45:ASN:H	1.57	0.52
2:K:96:ARG:NE	2:K:199:VAL:HG21	2.25	0.52
2:K:371:VAL:HG21	2:K:386:SER:CB	2.39	0.52
2:L:317:LYS:HE3	2:L:345:ILE:CB	2.40	0.52
2:L:350:PRO:HD2	2:L:374:ALA:CA	2.39	0.52
2:L:443:ILE:HD12	2:L:444:VAL:CA	2.39	0.52
1:A:87:GLU:O	1:A:88:ALA:C	2.53	0.51
1:A:845:SER:O	1:A:848:ALA:HB3	2.10	0.51
1:A:871:LEU:O	1:A:872:ASN:C	2.52	0.51
1:A:1061:LEU:O	1:A:1063:HIS:N	2.43	0.51
1:B:634:SER:O	1:B:635:ASN:C	2.52	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1092:ILE:O	1:B:1092:ILE:HG22	2.10	0.51
1:B:1146:VAL:O	1:B:1147:ARG:C	2.46	0.51
1:C:31:ARG:NH1	1:C:368:GLU:OE2	2.43	0.51
1:D:281:PHE:O	1:D:285:VAL:HG23	2.09	0.51
1:D:419:TRP:O	1:D:540:THR:CB	2.58	0.51
1:D:679:HIS:NE2	1:D:687:MET:O	2.42	0.51
1:D:828:LEU:HD22	1:D:1172:SER:CA	2.31	0.51
1:E:394:ASP:OD1	1:E:396:GLN:N	2.43	0.51
1:E:528:ASN:HB2	1:E:542:LEU:HD22	1.90	0.51
1:E:707:ILE:HA	1:E:710:LYS:HD2	1.92	0.51
1:E:826:ARG:NH1	1:E:826:ARG:CG	2.57	0.51
1:E:1432:VAL:O	1:E:1433:THR:C	2.53	0.51
1:F:61:VAL:O	1:F:61:VAL:CG1	2.58	0.51
1:F:74:GLY:HA2	1:F:172:LEU:HD13	1.92	0.51
1:F:302:ALA:CB	1:F:347:ARG:NH1	2.73	0.51
1:F:629:THR:O	1:F:632:ILE:N	2.42	0.51
1:F:855:THR:HG22	1:F:855:THR:O	2.09	0.51
1:F:1075:THR:O	1:F:1076:GLY:C	2.50	0.51
1:F:1376:LEU:HB3	1:F:1439:PHE:HE2	1.75	0.51
2:G:317:LYS:HE3	2:G:345:ILE:CB	2.40	0.51
2:G:320:TYR:CD2	2:G:346:TRP:CG	2.98	0.51
2:H:96:ARG:NE	2:H:199:VAL:HG21	2.25	0.51
2:H:265:LEU:HD12	8:H:484:FAD:HM72	1.92	0.51
2:H:377:ARG:O	2:H:378:GLN:HB3	2.10	0.51
2:I:147:GLY:HA2	2:I:171:TYR:HD1	1.75	0.51
2:I:271:VAL:HG11	2:I:284:SER:O	2.09	0.51
2:J:71:LEU:CD2	2:J:79:GLU:HB2	2.40	0.51
2:J:81:TYR:CZ	2:J:85:GLN:HG3	2.44	0.51
2:J:350:PRO:HD2	2:J:374:ALA:CA	2.39	0.51
2:J:469:LYS:HD2	2:J:476:VAL:CB	2.39	0.51
2:K:249:LYS:HG3	2:K:258:ILE:CD1	2.39	0.51
2:K:265:LEU:HD12	8:K:484:FAD:HM72	1.92	0.51
2:K:353:PHE:CE1	2:K:382:VAL:HG12	2.44	0.51
2:L:85:GLN:CD	2:L:91:PRO:HG3	2.34	0.51
1:A:24:ALA:O	1:A:27:ALA:N	2.27	0.51
1:A:94:GLU:HG2	1:A:104:ILE:HD13	1.92	0.51
1:A:731:SER:HA	1:A:747:SER:CA	2.40	0.51
1:A:896:PRO:HG2	1:C:1226:GLY:CA	2.26	0.51
1:B:136:ASN:OD1	1:B:136:ASN:N	2.38	0.51
1:B:253:HIS:N	1:B:260:MET:HE1	2.19	0.51
1:B:402:ARG:O	1:B:403:ASP:C	2.51	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:486:ALA:O	1:B:487:VAL:C	2.51	0.51
1:B:621:ILE:HG12	1:B:657:VAL:CG1	2.40	0.51
1:B:1075:THR:O	1:B:1076:GLY:C	2.50	0.51
1:B:1438:ARG:O	1:B:1441:ALA:N	2.43	0.51
1:C:312:ASN:HB2	1:C:411:ALA:CB	2.41	0.51
1:C:353:MET:CE	1:C:366:GLY:C	2.82	0.51
1:C:449:ARG:O	1:C:450:ARG:O	2.28	0.51
1:C:572:THR:CG2	1:C:573:PHE:N	2.73	0.51
1:C:707:ILE:HA	1:C:710:LYS:HD2	1.92	0.51
1:C:1075:THR:O	1:C:1076:GLY:C	2.50	0.51
1:C:1113:CYS:O	1:C:1115:VAL:N	2.42	0.51
1:D:235:ASN:HD22	1:D:235:ASN:C	2.18	0.51
1:D:621:ILE:HG12	1:D:657:VAL:CG1	2.40	0.51
1:D:1075:THR:CG2	1:D:1076:GLY:N	2.73	0.51
1:D:1338:ALA:O	1:D:1340:GLY:N	2.43	0.51
1:D:1447:TRP:CD2	1:D:1451:VAL:HG22	2.45	0.51
1:E:244:MET:HA	1:E:247:HIS:HB2	1.92	0.51
1:E:447:LEU:CD2	1:E:674:ALA:HA	2.30	0.51
1:E:1011:ALA:O	1:E:1014:ALA:HB3	2.09	0.51
1:E:1080:VAL:CG1	1:E:1084:MET:HE3	2.39	0.51
1:F:295:LYS:HE2	1:F:299:VAL:HG12	1.92	0.51
1:F:447:LEU:O	1:F:451:GLN:HG3	2.10	0.51
1:F:501:GLN:OE1	1:F:710:LYS:NZ	2.43	0.51
1:F:1221:PRO:HB2	1:F:1229:MET:HE2	1.91	0.51
1:F:1432:VAL:O	1:F:1436:GLN:N	2.40	0.51
1:F:1438:ARG:O	1:F:1441:ALA:N	2.43	0.51
2:G:68:TRP:HB2	2:G:80:ALA:HB1	1.91	0.51
2:G:114:THR:HG23	2:G:115:HIS:N	2.26	0.51
2:G:174:HIS:HD2	2:G:176:TYR:CE1	2.29	0.51
2:G:350:PRO:HD2	2:G:374:ALA:CA	2.39	0.51
2:I:45:ASN:HD21	2:I:45:ASN:H	1.57	0.51
2:I:85:GLN:CD	2:I:91:PRO:HG3	2.34	0.51
2:I:97:ILE:CD1	2:I:450:VAL:HG11	2.39	0.51
2:I:153:ILE:CG1	2:I:220:VAL:HG13	2.40	0.51
2:I:317:LYS:HE3	2:I:345:ILE:CB	2.40	0.51
2:I:349:ALA:HB3	2:I:350:PRO:CD	2.39	0.51
2:I:371:VAL:HG21	2:I:386:SER:CB	2.39	0.51
2:J:220:VAL:CG2	8:J:484:FAD:N6A	2.55	0.51
2:J:271:VAL:HG11	2:J:284:SER:O	2.09	0.51
2:J:317:LYS:HZ2	2:J:345:ILE:HG21	1.76	0.51
2:K:249:LYS:HE2	2:K:258:ILE:HD13	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:320:TYR:CD2	2:K:346:TRP:CG	2.98	0.51
2:K:429:THR:CB	2:K:431:MET:HE2	2.39	0.51
2:L:114:THR:HG23	2:L:115:HIS:N	2.26	0.51
2:L:302:MET:HE1	2:L:334:VAL:HG13	1.92	0.51
2:L:416:LYS:HB2	2:L:416:LYS:NZ	2.24	0.51
2:L:449:LEU:CD2	2:L:452:TRP:CD2	2.93	0.51
1:A:1016:ALA:O	1:A:1017:ASN:HB2	2.08	0.51
1:A:1226:GLY:HA3	1:E:896:PRO:HB2	1.93	0.51
1:A:1354:THR:HA	1:A:1372:THR:O	2.10	0.51
1:B:447:LEU:CD1	1:B:451:GLN:CD	2.83	0.51
1:B:501:GLN:OE1	1:B:710:LYS:NZ	2.43	0.51
1:B:513:SER:CB	1:B:520:MET:CE	2.79	0.51
1:B:1229:MET:CA	1:D:877:ARG:CG	2.78	0.51
1:C:281:PHE:O	1:C:285:VAL:HG23	2.11	0.51
1:C:528:ASN:C	1:C:529:LEU:HD23	2.35	0.51
1:C:896:PRO:HB2	1:E:1226:GLY:HA3	1.93	0.51
1:C:1417:VAL:CG1	1:C:1418:GLY:N	2.73	0.51
1:D:40:THR:O	1:D:40:THR:CG2	2.57	0.51
1:D:61:VAL:O	1:D:61:VAL:CG1	2.58	0.51
1:D:496:HIS:O	1:D:653:HIS:HE1	1.94	0.51
1:E:1:CYS:HB3	3:E:2473:OMT:HE1	1.92	0.51
1:E:209:GLN:HG3	1:E:210:ARG:H	1.76	0.51
1:E:893:ARG:HG2	1:E:903:TRP:CB	2.40	0.51
1:E:1070:ASP:OD1	1:E:1070:ASP:C	2.52	0.51
2:G:71:LEU:HD13	2:G:72:THR:N	2.24	0.51
2:G:96:ARG:NE	2:G:199:VAL:HG21	2.25	0.51
2:G:180:ASP:O	2:G:182:MET:HE1	2.10	0.51
2:H:45:ASN:HD21	2:H:45:ASN:H	1.57	0.51
2:H:322:ARG:HG3	2:H:326:ASN:OD1	2.09	0.51
2:I:28:PHE:CZ	2:I:285:LEU:HD21	2.46	0.51
2:I:114:THR:HG23	2:I:115:HIS:N	2.26	0.51
2:I:144:ARG:HG2	2:I:145:GLU:N	2.25	0.51
2:I:449:LEU:CD2	2:I:451:VAL:HG13	2.27	0.51
2:J:147:GLY:HA2	2:J:171:TYR:HD1	1.75	0.51
2:J:174:HIS:HD2	2:J:176:TYR:CE1	2.29	0.51
2:K:28:PHE:CZ	2:K:285:LEU:HD21	2.46	0.51
2:K:32:TYR:CE2	2:K:194:LYS:HB3	2.46	0.51
2:K:71:LEU:CD2	2:K:79:GLU:HB2	2.40	0.51
2:K:144:ARG:HG2	2:K:145:GLU:N	2.25	0.51
2:K:166:LEU:HD23	2:K:461:ALA:CB	2.36	0.51
2:K:320:TYR:CD2	2:K:346:TRP:CE2	2.98	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:97:ILE:HD11	2:L:450:VAL:HB	1.92	0.51
2:L:144:ARG:HH11	2:L:169:LYS:HA	1.74	0.51
2:L:174:HIS:HD2	2:L:176:TYR:CE1	2.29	0.51
2:L:290:LYS:HB3	2:L:393:ASP:OD2	2.11	0.51
1:A:73:VAL:O	1:A:172:LEU:HA	2.09	0.51
1:A:389:GLU:HA	1:A:403:ASP:OD2	2.09	0.51
1:A:404:ARG:CB	1:A:405:GLU:OE1	2.51	0.51
1:A:449:ARG:O	1:A:450:ARG:O	2.28	0.51
1:A:707:ILE:HA	1:A:710:LYS:HD2	1.92	0.51
1:A:776:GLY:O	1:A:782:ARG:HD2	2.10	0.51
1:A:1222:LEU:H	1:A:1229:MET:HE2	1.75	0.51
1:A:1401:LEU:N	1:A:1402:PRO:HD2	2.26	0.51
1:B:496:HIS:O	1:B:653:HIS:HE1	1.94	0.51
1:B:781:PHE:CD2	2:G:57:VAL:HG21	2.45	0.51
1:B:871:LEU:O	1:B:872:ASN:C	2.53	0.51
1:B:1424:LEU:O	1:B:1425:LYS:C	2.53	0.51
1:B:1447:TRP:CD2	1:B:1451:VAL:HG22	2.45	0.51
1:C:160:LYS:O	1:C:161:GLY:C	2.50	0.51
1:C:763:ALA:O	1:C:767:ASN:HB2	2.11	0.51
1:C:776:GLY:O	1:C:782:ARG:HD2	2.11	0.51
1:C:899:ASN:O	1:E:1263:HIS:CE1	2.62	0.51
1:C:1274:GLN:HE21	1:C:1293:ASN:HB3	1.74	0.51
1:D:85:ALA:O	1:D:86:GLN:C	2.53	0.51
1:D:447:LEU:CD1	1:D:447:LEU:C	2.84	0.51
1:D:528:ASN:HB3	1:D:542:LEU:HD22	1.91	0.51
1:D:630:HIS:O	1:D:631:LEU:C	2.49	0.51
1:D:985:TYR:CE1	1:D:1207:VAL:HG11	2.44	0.51
1:D:1075:THR:O	1:D:1076:GLY:C	2.50	0.51
1:E:317:ILE:CG2	1:E:321:ASN:HD21	2.19	0.51
1:E:602:THR:C	1:E:640:THR:CG2	2.83	0.51
1:E:1075:THR:O	1:E:1076:GLY:C	2.50	0.51
1:F:1047:MET:O	1:F:1048:GLY:C	2.53	0.51
1:F:1452:THR:HG22	1:F:1453:LYS:HG3	1.91	0.51
2:G:91:PRO:HD2	2:G:203:ARG:HH22	1.76	0.51
2:G:317:LYS:HZ2	2:G:345:ILE:HG21	1.74	0.51
2:H:28:PHE:CZ	2:H:285:LEU:HD21	2.46	0.51
2:H:54:PHE:HB3	2:H:107:ASN:CB	2.36	0.51
2:H:350:PRO:HD2	2:H:374:ALA:HB2	1.93	0.51
2:I:174:HIS:HD2	2:I:176:TYR:CE1	2.29	0.51
2:I:417:VAL:CG1	2:I:421:GLY:HA2	2.40	0.51
2:J:114:THR:HG23	2:J:115:HIS:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:138:LYS:NZ	2:J:206:LEU:HB3	2.26	0.51
2:J:180:ASP:O	2:J:182:MET:HE1	2.10	0.51
2:J:320:TYR:CD2	2:J:346:TRP:CE2	2.98	0.51
2:K:77:LEU:CA	2:K:127:ILE:HD11	2.40	0.51
2:K:174:HIS:HD2	2:K:176:TYR:CE1	2.29	0.51
2:K:302:MET:HE1	2:K:334:VAL:HG13	1.92	0.51
2:K:350:PRO:HD2	2:K:374:ALA:HB2	1.92	0.51
2:K:445:ARG:HG2	2:K:445:ARG:O	2.09	0.51
2:L:28:PHE:CZ	2:L:285:LEU:HD21	2.46	0.51
2:L:71:LEU:CD2	2:L:79:GLU:HB2	2.40	0.51
2:L:174:HIS:CD2	2:L:176:TYR:CE1	2.99	0.51
2:L:182:MET:HE2	2:L:216:PRO:HG3	1.92	0.51
2:L:350:PRO:HD2	2:L:374:ALA:HB2	1.93	0.51
2:L:377:ARG:O	2:L:378:GLN:HB3	2.10	0.51
1:A:351:ARG:HH12	1:A:978:GLU:CD	2.19	0.51
1:A:394:ASP:OD1	1:A:396:GLN:N	2.43	0.51
1:A:528:ASN:C	1:A:529:LEU:HD23	2.35	0.51
1:A:1070:ASP:OD1	1:A:1070:ASP:C	2.52	0.51
1:B:5:PHE:CE2	1:B:365:GLY:HA3	2.45	0.51
1:B:269:VAL:HG23	1:B:270:GLY:N	2.21	0.51
1:B:447:LEU:CD1	1:B:447:LEU:C	2.84	0.51
1:B:485:ILE:O	1:B:488:LEU:N	2.43	0.51
1:B:677:GLU:C	1:B:677:GLU:OE1	2.54	0.51
1:B:696:TYR:CZ	1:B:700:ILE:CD1	2.94	0.51
1:B:777:GLY:C	2:G:52:VAL:CG1	2.83	0.51
1:B:782:ARG:CB	2:G:56:GLN:NE2	2.41	0.51
1:B:876:ASN:ND2	1:F:1227:GLU:OE2	2.43	0.51
1:B:1002:SER:HB2	1:B:1048:GLY:HA3	1.93	0.51
1:C:369:THR:O	1:C:371:MET:N	2.43	0.51
1:C:394:ASP:OD1	1:C:396:GLN:N	2.43	0.51
1:C:855:THR:HG22	1:C:855:THR:O	2.10	0.51
1:C:1061:LEU:O	1:C:1063:HIS:N	2.43	0.51
1:C:1220:ARG:HG3	1:C:1224:GLU:CG	2.38	0.51
1:C:1236:ARG:C	1:C:1238:THR:H	2.17	0.51
1:D:5:PHE:CE2	1:D:365:GLY:HA3	2.45	0.51
1:D:720:ARG:C	1:D:722:GLY:N	2.69	0.51
1:E:87:GLU:O	1:E:88:ALA:C	2.53	0.51
1:E:404:ARG:CB	1:E:405:GLU:OE1	2.51	0.51
1:E:659:ILE:HA	1:E:663:ALA:HB3	1.91	0.51
1:E:660:GLY:HA2	1:E:721:GLY:H	1.74	0.51
1:E:776:GLY:O	1:E:782:ARG:HD2	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1274:GLN:HE21	1:E:1293:ASN:HB3	1.74	0.51
1:F:496:HIS:O	1:F:653:HIS:HE1	1.94	0.51
1:F:679:HIS:NE2	1:F:687:MET:O	2.42	0.51
1:F:1092:ILE:HG22	1:F:1092:ILE:O	2.10	0.51
2:G:197:LYS:HZ3	2:G:275:ASP:HB3	1.76	0.51
2:G:469:LYS:HD2	2:G:476:VAL:CB	2.39	0.51
2:H:32:TYR:CE2	2:H:194:LYS:HB3	2.46	0.51
2:H:68:TRP:CZ3	2:H:84:SER:CB	2.93	0.51
2:I:71:LEU:CD2	2:I:79:GLU:HB2	2.40	0.51
2:I:449:LEU:CD2	2:I:452:TRP:CD2	2.93	0.51
2:J:182:MET:HE2	2:J:216:PRO:HG3	1.92	0.51
2:J:445:ARG:HG2	2:J:445:ARG:O	2.09	0.51
2:J:469:LYS:CD	2:J:476:VAL:HB	2.38	0.51
2:K:45:ASN:HD21	2:K:45:ASN:H	1.57	0.51
2:K:190:ILE:HG22	2:K:195:LEU:HB3	1.93	0.51
2:L:68:TRP:HB2	2:L:80:ALA:HB1	1.91	0.51
2:L:190:ILE:HG22	2:L:195:LEU:HB3	1.93	0.51
1:A:236:THR:HG22	1:A:328:ASP:N	2.26	0.51
1:A:572:THR:CG2	1:A:573:PHE:N	2.73	0.51
1:A:1214:ARG:O	1:A:1215:ILE:C	2.52	0.51
1:B:1401:LEU:HB3	1:B:1402:PRO:HD3	1.91	0.51
1:C:15:ARG:O	1:C:16:SER:C	2.53	0.51
1:C:351:ARG:HH12	1:C:978:GLU:CD	2.19	0.51
1:C:670:LEU:O	1:C:670:LEU:CD2	2.53	0.51
1:C:1374:VAL:C	1:C:1375:ILE:CG1	2.82	0.51
1:C:1391:MET:HE2	1:C:1458:VAL:HG21	1.76	0.51
1:C:1401:LEU:N	1:C:1402:PRO:HD2	2.26	0.51
1:D:302:ALA:CB	1:D:347:ARG:NH1	2.73	0.51
1:D:419:TRP:O	1:D:540:THR:CG2	2.59	0.51
1:D:1376:LEU:HB3	1:D:1439:PHE:HE2	1.75	0.51
1:E:244:MET:C	1:E:246:ALA:N	2.65	0.51
1:E:316:LEU:HD12	1:E:316:LEU:C	2.36	0.51
1:E:499:PHE:CE2	1:E:742:MET:HE1	2.27	0.51
1:E:606:LEU:C	1:E:607:THR:CG2	2.83	0.51
1:E:653:HIS:O	1:E:654:TYR:C	2.51	0.51
1:E:1236:ARG:C	1:E:1238:THR:N	2.67	0.51
1:E:1385:ALA:HB2	1:E:1406:ASN:HD22	1.74	0.51
1:F:556:ARG:O	1:F:557:ALA:C	2.48	0.51
1:F:673:GLU:O	1:F:674:ALA:C	2.54	0.51
1:F:677:GLU:C	1:F:677:GLU:OE1	2.54	0.51
1:F:781:PHE:CD2	2:I:57:VAL:HG21	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:1058:LEU:O	1:F:1058:LEU:CD2	2.57	0.51
2:G:71:LEU:CD2	2:G:79:GLU:HB2	2.40	0.51
2:G:201:GLU:O	2:G:204:VAL:HG13	2.11	0.51
2:H:250:ALA:CB	2:H:251:PRO:HD2	2.35	0.51
2:H:302:MET:HG3	2:H:333:GLU:OE2	2.11	0.51
2:H:445:ARG:HG2	2:H:445:ARG:O	2.10	0.51
2:I:32:TYR:CE2	2:I:194:LYS:CB	2.94	0.51
2:I:138:LYS:NZ	2:I:206:LEU:HB3	2.26	0.51
2:I:265:LEU:HD12	8:I:484:FAD:HM72	1.92	0.51
2:J:28:PHE:CZ	2:J:285:LEU:HD21	2.46	0.51
2:J:302:MET:HG3	2:J:333:GLU:OE2	2.11	0.51
2:K:276:THR:HG22	2:K:277:VAL:HG23	1.91	0.51
2:K:317:LYS:HE3	2:K:345:ILE:CB	2.40	0.51
2:K:367:ILE:HD13	2:K:368:HIS:O	2.10	0.51
2:K:417:VAL:CG1	2:K:421:GLY:HA2	2.40	0.51
2:L:96:ARG:NE	2:L:199:VAL:HG21	2.25	0.51
2:L:150:VAL:HG12	2:L:172:GLU:O	2.11	0.51
2:L:320:TYR:CD2	2:L:346:TRP:CE2	2.98	0.51
1:A:139:VAL:CG1	1:A:140:SER:N	2.54	0.51
1:A:316:LEU:C	1:A:316:LEU:HD12	2.36	0.51
1:A:673:GLU:O	1:A:674:ALA:C	2.53	0.51
1:A:896:PRO:HB2	1:C:1226:GLY:HA3	1.93	0.51
1:B:254:PRO:O	1:B:257:GLY:N	2.37	0.51
1:B:295:LYS:HE2	1:B:299:VAL:HG12	1.92	0.51
1:B:589:ILE:O	1:B:593:THR:OG1	2.28	0.51
1:B:679:HIS:NE2	1:B:687:MET:O	2.42	0.51
1:B:864:SER:HG	1:B:867:ALA:H	1.59	0.51
1:B:1077:ARG:HG2	1:B:1078:ASP:N	2.26	0.51
1:B:1338:ALA:O	1:B:1340:GLY:N	2.43	0.51
1:B:1440:ALA:O	1:B:1441:ALA:C	2.53	0.51
1:C:236:THR:HG22	1:C:328:ASP:N	2.26	0.51
1:C:345:MET:CG	1:C:346:ASP:N	2.55	0.51
1:C:672:GLN:O	1:C:673:GLU:C	2.52	0.51
1:C:791:GLU:O	1:C:795:ILE:HG13	2.11	0.51
1:C:893:ARG:HG2	1:C:903:TRP:CB	2.40	0.51
1:C:973:ASP:OD2	1:C:1298:LYS:CE	2.54	0.51
1:D:621:ILE:HG13	1:D:658:LEU:HD12	1.93	0.51
1:D:696:TYR:CZ	1:D:700:ILE:CD1	2.94	0.51
1:D:949:VAL:C	1:D:950:THR:O	2.48	0.51
1:D:1018:ALA:O	1:D:1065:VAL:HG23	2.11	0.51
1:D:1183:LEU:O	1:D:1187:LEU:HG	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1245:ARG:O	1:D:1245:ARG:HG3	2.10	0.51
1:E:133:VAL:CG1	1:E:134:GLY:N	2.74	0.51
1:F:446:GLU:O	1:F:449:ARG:N	2.43	0.51
1:F:782:ARG:CA	2:I:52:VAL:C	2.84	0.51
1:F:1204:ARG:O	1:F:1205:ASN:C	2.51	0.51
1:F:1323:ILE:HD12	1:F:1327:VAL:HG21	1.91	0.51
1:F:1326:THR:HG22	1:F:1326:THR:O	2.10	0.51
2:G:138:LYS:NZ	2:G:206:LEU:HB3	2.26	0.51
2:G:290:LYS:HB3	2:G:393:ASP:OD2	2.11	0.51
2:G:404:GLU:HG3	2:G:404:GLU:O	2.09	0.51
2:H:138:LYS:NZ	2:H:206:LEU:HB3	2.26	0.51
2:H:144:ARG:HG2	2:H:145:GLU:N	2.25	0.51
2:H:249:LYS:HG3	2:H:258:ILE:CD1	2.39	0.51
2:I:96:ARG:NE	2:I:199:VAL:HG21	2.25	0.51
2:I:174:HIS:CD2	2:I:176:TYR:CE1	2.99	0.51
2:I:388:PHE:CE2	2:I:390:VAL:HG13	2.46	0.51
2:J:317:LYS:HE3	2:J:345:ILE:CB	2.40	0.51
2:J:350:PRO:HD2	2:J:374:ALA:HB2	1.92	0.51
2:J:388:PHE:CE2	2:J:390:VAL:HG13	2.46	0.51
2:K:150:VAL:HG13	2:K:173:VAL:CA	2.38	0.51
2:L:32:TYR:CE2	2:L:194:LYS:CB	2.94	0.51
2:L:68:TRP:CZ3	2:L:84:SER:CB	2.93	0.51
2:L:153:ILE:CG1	2:L:220:VAL:HG13	2.40	0.51
2:L:265:LEU:HD12	8:L:484:FAD:HM72	1.92	0.51
2:L:302:MET:HG3	2:L:333:GLU:OE2	2.11	0.51
2:L:302:MET:HE2	2:L:333:GLU:C	2.36	0.51
2:L:322:ARG:HD2	2:L:349:ALA:CB	2.38	0.51
2:L:416:LYS:HE3	2:L:433:ASN:CB	2.41	0.51
1:A:359:THR:HG23	1:A:378:GLN:CB	2.41	0.51
1:A:417:ASP:O	1:A:418:LYS:C	2.52	0.51
1:A:938:PRO:O	1:A:939:GLY:C	2.53	0.51
1:A:957:ARG:HD2	1:A:965:LEU:CD1	2.41	0.51
1:B:629:THR:O	1:B:632:ILE:N	2.42	0.51
1:B:630:HIS:O	1:B:631:LEU:C	2.49	0.51
1:B:1161:VAL:CG1	1:B:1161:VAL:O	2.57	0.51
1:C:1:CYS:HB3	3:C:2473:OMT:HE1	1.92	0.51
1:C:496:HIS:O	1:C:653:HIS:CE1	2.61	0.51
1:C:731:SER:HA	1:C:747:SER:CA	2.40	0.51
1:C:957:ARG:HD2	1:C:965:LEU:CD1	2.41	0.51
1:D:253:HIS:N	1:D:260:MET:HE1	2.19	0.51
1:D:335:MET:HE3	1:D:342:VAL:HB	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:447:LEU:O	1:D:451:GLN:HG3	2.10	0.51
1:D:677:GLU:C	1:D:677:GLU:OE1	2.54	0.51
1:D:766:TYR:C	1:D:768:GLU:H	2.18	0.51
1:D:777:GLY:C	2:H:52:VAL:CG1	2.83	0.51
1:D:1003:ARG:HG3	1:D:1004:SER:N	2.24	0.51
1:E:159:VAL:HG21	1:E:167:PHE:CD2	2.46	0.51
1:E:452:GLN:NE2	1:E:764:THR:HG21	2.21	0.51
1:E:705:LEU:HD23	1:E:705:LEU:N	2.26	0.51
1:E:1061:LEU:O	1:E:1063:HIS:N	2.43	0.51
1:F:24:ALA:C	1:F:26:LYS:H	2.19	0.51
1:F:513:SER:CB	1:F:520:MET:CE	2.79	0.51
1:F:569:ILE:HG22	1:F:589:ILE:HG22	1.93	0.51
1:F:1018:ALA:O	1:F:1065:VAL:HG23	2.11	0.51
1:F:1184:ASN:CB	1:F:1185:PRO:CD	2.80	0.51
2:G:190:ILE:HG22	2:G:195:LEU:HB3	1.93	0.51
2:G:302:MET:HE2	2:G:333:GLU:C	2.36	0.51
2:I:320:TYR:CD2	2:I:346:TRP:CE2	2.98	0.51
2:I:350:PRO:HD2	2:I:374:ALA:HB2	1.92	0.51
2:I:367:ILE:HD13	2:I:368:HIS:C	2.34	0.51
2:I:416:LYS:HB2	2:I:416:LYS:HZ2	1.76	0.51
2:I:418:THR:CB	2:I:424:LEU:HD11	2.23	0.51
2:J:96:ARG:NE	2:J:199:VAL:HG21	2.25	0.51
2:J:353:PHE:CE1	2:J:382:VAL:HG12	2.44	0.51
2:J:377:ARG:O	2:J:378:GLN:HB3	2.10	0.51
2:K:97:ILE:HD11	2:K:450:VAL:HB	1.92	0.51
2:K:146:LEU:HD22	2:K:146:LEU:N	2.26	0.51
2:K:147:GLY:HA2	2:K:171:TYR:HD1	1.75	0.51
2:K:404:GLU:HG3	2:K:404:GLU:O	2.09	0.51
2:K:416:LYS:HE3	2:K:433:ASN:CB	2.41	0.51
2:L:180:ASP:O	2:L:182:MET:HE1	2.10	0.51
2:L:415:LEU:CD2	2:L:432:THR:HG23	2.41	0.51
1:A:133:VAL:CG1	1:A:134:GLY:N	2.74	0.51
1:A:159:VAL:HG21	1:A:167:PHE:CD2	2.46	0.51
1:A:295:LYS:HE2	1:A:299:VAL:HG12	1.90	0.51
1:A:1385:ALA:HB2	1:A:1406:ASN:HD22	1.74	0.51
1:B:40:THR:O	1:B:40:THR:CG2	2.57	0.51
1:B:131:ILE:O	1:B:131:ILE:HG23	2.09	0.51
1:B:236:THR:HG22	1:B:328:ASP:N	2.24	0.51
1:C:606:LEU:C	1:C:607:THR:CG2	2.83	0.51
1:D:295:LYS:HE2	1:D:299:VAL:HG12	1.92	0.51
1:D:501:GLN:OE1	1:D:710:LYS:NZ	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:871:LEU:O	1:D:872:ASN:C	2.53	0.51
1:D:1077:ARG:HG2	1:D:1078:ASP:N	2.26	0.51
1:D:1092:ILE:HG22	1:D:1092:ILE:O	2.10	0.51
1:D:1207:VAL:HG13	1:D:1208:PRO:HD2	1.93	0.51
1:D:1318:ASN:H	1:D:1318:ASN:ND2	2.01	0.51
1:D:1401:LEU:HB3	1:D:1402:PRO:HD3	1.91	0.51
1:E:9:ILE:HG13	1:E:361:GLY:C	2.35	0.51
1:E:621:ILE:HG12	1:E:657:VAL:HG12	1.93	0.51
1:E:780:ARG:HB3	2:L:51:GLY:O	2.11	0.51
1:F:746:ILE:CG2	1:F:1182:ASP:HB3	2.22	0.51
1:F:1075:THR:CG2	1:F:1076:GLY:N	2.73	0.51
2:G:134:GLN:CB	2:G:136:TRP:CD1	2.94	0.51
2:G:146:LEU:HD22	2:G:146:LEU:N	2.26	0.51
2:G:174:HIS:CD2	2:G:176:TYR:CE1	2.99	0.51
2:G:265:LEU:HD12	8:G:484:FAD:HM72	1.92	0.51
2:G:377:ARG:O	2:G:378:GLN:HB3	2.10	0.51
2:H:43:GLN:NE2	2:H:123:VAL:HG13	2.26	0.51
2:H:71:LEU:CD2	2:H:79:GLU:HB2	2.40	0.51
2:H:146:LEU:HD22	2:H:146:LEU:N	2.26	0.51
2:H:201:GLU:O	2:H:204:VAL:HG13	2.11	0.51
2:H:415:LEU:CD2	2:H:432:THR:HG23	2.41	0.51
2:H:449:LEU:CD2	2:H:452:TRP:CD2	2.93	0.51
2:I:367:ILE:HD13	2:I:367:ILE:C	2.36	0.51
2:I:367:ILE:HD13	2:I:368:HIS:O	2.10	0.51
2:I:415:LEU:CD2	2:I:432:THR:HG23	2.41	0.51
2:J:77:LEU:CA	2:J:127:ILE:HD11	2.39	0.51
2:J:90:PHE:CZ	2:J:160:LEU:CB	2.94	0.51
2:J:265:LEU:HD12	8:J:484:FAD:HM72	1.92	0.51
2:J:302:MET:HE1	2:J:334:VAL:HG13	1.92	0.51
2:K:32:TYR:CE2	2:K:194:LYS:CB	2.94	0.51
2:K:77:LEU:HD21	2:K:126:TYR:CD2	2.46	0.51
2:K:150:VAL:HG12	2:K:172:GLU:O	2.11	0.51
2:K:377:ARG:O	2:K:378:GLN:HB3	2.10	0.51
2:K:469:LYS:CD	2:K:476:VAL:HB	2.38	0.51
2:L:90:PHE:CZ	2:L:160:LEU:CB	2.94	0.51
2:L:91:PRO:HD2	2:L:203:ARG:HH22	1.76	0.51
2:L:138:LYS:NZ	2:L:206:LEU:HB3	2.26	0.51
2:L:417:VAL:CG1	2:L:421:GLY:HA2	2.40	0.51
1:A:1:CYS:HB3	3:A:2473:OMT:CE	2.41	0.51
1:A:949:VAL:C	1:A:950:THR:O	2.50	0.51
1:B:197:ASP:OD1	1:B:199:ARG:HB2	2.12	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1183:LEU:O	1:B:1187:LEU:HG	2.11	0.51
1:C:21:GLY:O	1:C:22:ILE:C	2.49	0.51
1:C:159:VAL:HG21	1:C:167:PHE:CD2	2.46	0.51
1:C:207:TYR:N	1:C:207:TYR:HD1	2.08	0.51
1:C:342:VAL:HG11	1:C:390:MET:CE	2.37	0.51
1:C:780:ARG:HB3	2:K:52:VAL:N	2.26	0.51
1:D:24:ALA:C	1:D:26:LYS:H	2.19	0.51
1:D:451:GLN:OE1	1:D:773:LEU:HD11	2.11	0.51
1:D:505:GLN:NE2	1:D:1000:LEU:CB	2.59	0.51
1:D:536:ASP:OD1	1:D:536:ASP:O	2.28	0.51
1:D:555:PHE:CD1	1:D:556:ARG:N	2.77	0.51
1:D:595:ASP:O	1:D:596:ALA:C	2.51	0.51
1:D:1141:PHE:O	1:D:1142:LEU:C	2.54	0.51
1:D:1460:LYS:O	1:D:1462:MET:N	2.44	0.51
1:E:281:PHE:O	1:E:285:VAL:HG23	2.10	0.51
1:E:845:SER:O	1:E:848:ALA:HB3	2.10	0.51
1:E:855:THR:HG22	1:E:855:THR:O	2.10	0.51
1:E:1222:LEU:H	1:E:1229:MET:HE2	1.75	0.51
1:E:1250:VAL:HG13	1:E:1254:PHE:HD2	1.75	0.51
1:E:1253:LYS:O	1:E:1253:LYS:HG3	2.11	0.51
1:E:1401:LEU:N	1:E:1402:PRO:HD2	2.26	0.51
1:F:5:PHE:CE2	1:F:365:GLY:HA3	2.46	0.51
1:F:782:ARG:HH22	2:I:51:GLY:CA	1.16	0.51
1:F:1113:CYS:C	1:F:1115:VAL:N	2.69	0.51
1:F:1420:TYR:C	1:F:1422:SER:N	2.69	0.51
2:G:28:PHE:CZ	2:G:285:LEU:HD21	2.46	0.51
2:G:32:TYR:CE2	2:G:194:LYS:HB3	2.46	0.51
2:G:77:LEU:HD21	2:G:126:TYR:CD2	2.46	0.51
2:G:416:LYS:HE3	2:G:433:ASN:CB	2.41	0.51
2:H:32:TYR:CE2	2:H:194:LYS:CB	2.94	0.51
2:H:77:LEU:HD21	2:H:126:TYR:CD2	2.46	0.51
2:H:90:PHE:CZ	2:H:160:LEU:CB	2.94	0.51
2:H:153:ILE:CG1	2:H:220:VAL:HG13	2.40	0.51
2:H:174:HIS:HD2	2:H:176:TYR:CE1	2.29	0.51
2:H:249:LYS:HE2	2:H:258:ILE:HD13	1.91	0.51
2:I:180:ASP:O	2:I:182:MET:HE1	2.10	0.51
2:J:150:VAL:HG12	2:J:172:GLU:O	2.11	0.51
2:J:417:VAL:CG1	2:J:421:GLY:HA2	2.40	0.51
2:K:32:TYR:CD1	2:K:34:ARG:CD	2.94	0.51
2:K:71:LEU:HD13	2:K:72:THR:N	2.24	0.51
2:K:331:GLN:HA	2:K:334:VAL:HG22	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:406:LEU:H	2:K:406:LEU:CD2	2.21	0.51
2:L:77:LEU:HD21	2:L:126:TYR:CD2	2.46	0.51
2:L:134:GLN:CB	2:L:136:TRP:CD1	2.94	0.51
2:L:166:LEU:HD23	2:L:461:ALA:CB	2.36	0.51
2:L:201:GLU:O	2:L:204:VAL:HG13	2.11	0.51
2:L:367:ILE:HD13	2:L:368:HIS:O	2.10	0.51
1:A:442:MET:CE	1:A:447:LEU:HA	2.41	0.50
1:A:893:ARG:HG2	1:A:903:TRP:CB	2.40	0.50
1:A:896:PRO:HB3	1:C:1226:GLY:C	2.36	0.50
1:A:997:THR:CG2	1:A:998:VAL:N	2.73	0.50
1:A:1132:PRO:O	1:A:1133:GLU:C	2.52	0.50
1:B:211:TYR:HD1	1:B:212:SER:N	2.08	0.50
1:B:838:VAL:HG12	1:B:839:PRO:CD	2.40	0.50
1:B:1131:THR:CG2	1:B:1133:GLU:N	2.72	0.50
1:C:339:ARG:HG3	1:C:396:GLN:HG3	1.93	0.50
1:C:359:THR:HG23	1:C:378:GLN:CB	2.41	0.50
1:C:526:LEU:H	1:C:526:LEU:CD1	2.17	0.50
1:C:1132:PRO:O	1:C:1133:GLU:C	2.52	0.50
1:D:511:ILE:CG2	1:D:512:ASP:N	2.74	0.50
1:D:757:LYS:O	1:D:758:VAL:C	2.53	0.50
1:E:30:HIS:ND1	1:E:1238:THR:HA	2.26	0.50
1:E:351:ARG:HH12	1:E:978:GLU:CD	2.19	0.50
1:E:369:THR:O	1:E:371:MET:N	2.43	0.50
1:E:1244:THR:O	1:E:1245:ARG:C	2.51	0.50
1:E:1276:LEU:HD12	1:E:1276:LEU:C	2.36	0.50
1:E:1349:ARG:HH11	1:E:1349:ARG:CG	2.22	0.50
1:E:1393:TYR:C	1:E:1394:VAL:HG23	2.34	0.50
1:F:485:ILE:O	1:F:488:LEU:N	2.43	0.50
1:F:1003:ARG:HG3	1:F:1004:SER:N	2.24	0.50
1:F:1088:GLU:HG2	1:F:1162:ILE:HD13	1.92	0.50
2:G:147:GLY:HA2	2:G:171:TYR:HD1	1.75	0.50
2:G:153:ILE:CG1	2:G:220:VAL:HG13	2.40	0.50
2:G:367:ILE:HD13	2:G:368:HIS:O	2.10	0.50
2:H:32:TYR:CD1	2:H:34:ARG:CD	2.94	0.50
2:H:97:ILE:HD11	2:H:450:VAL:HB	1.92	0.50
2:H:367:ILE:HD13	2:H:368:HIS:O	2.10	0.50
2:I:302:MET:HE2	2:I:333:GLU:C	2.36	0.50
2:J:201:GLU:O	2:J:204:VAL:HG13	2.11	0.50
2:J:322:ARG:HD3	2:J:349:ALA:CA	2.39	0.50
2:J:431:MET:CG	2:J:438:PHE:CE2	2.94	0.50
2:K:302:MET:HG3	2:K:333:GLU:OE2	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:367:ILE:HD13	2:K:367:ILE:C	2.36	0.50
2:K:415:LEU:CD2	2:K:432:THR:HG23	2.41	0.50
1:A:9:ILE:HG13	1:A:361:GLY:C	2.35	0.50
1:A:143:GLN:O	1:A:143:GLN:NE2	2.41	0.50
1:A:339:ARG:HG3	1:A:396:GLN:HG3	1.93	0.50
1:A:509:PRO:HB3	1:A:975:TYR:HD1	1.77	0.50
1:A:1220:ARG:HG3	1:A:1224:GLU:CG	2.38	0.50
1:B:175:ARG:HG3	1:B:175:ARG:NH1	2.23	0.50
1:B:302:ALA:CB	1:B:347:ARG:NH1	2.73	0.50
1:B:1088:GLU:HG2	1:B:1162:ILE:HD13	1.92	0.50
1:B:1141:PHE:O	1:B:1142:LEU:C	2.54	0.50
1:C:1:CYS:HB3	3:C:2473:OMT:CE	2.41	0.50
1:C:227:MET:HE2	1:C:282:GLU:HG3	1.93	0.50
1:C:244:MET:HA	1:C:247:HIS:HB2	1.92	0.50
1:C:1222:LEU:H	1:C:1229:MET:HE2	1.75	0.50
1:C:1432:VAL:O	1:C:1433:THR:C	2.53	0.50
1:C:1440:ALA:O	1:C:1443:ILE:N	2.42	0.50
1:D:850:ARG:HD2	1:D:878:ILE:HD12	1.93	0.50
1:D:1102:CYS:SG	6:D:2476:F3S:S1	3.06	0.50
1:D:1347:ALA:O	1:D:1348:VAL:C	2.54	0.50
1:E:94:GLU:HG2	1:E:104:ILE:HD13	1.92	0.50
1:E:243:TRP:HA	1:E:243:TRP:CE3	2.47	0.50
1:E:492:TYR:CG	1:E:761:GLN:HG2	2.47	0.50
1:E:1415:ILE:CG2	1:E:1421:GLU:HB2	2.41	0.50
1:F:536:ASP:OD1	1:F:536:ASP:O	2.28	0.50
2:G:90:PHE:CZ	2:G:160:LEU:CB	2.94	0.50
2:G:367:ILE:HD13	2:G:367:ILE:C	2.36	0.50
2:G:449:LEU:CD2	2:G:452:TRP:CD2	2.93	0.50
2:H:174:HIS:CD2	2:H:176:TYR:CE1	2.99	0.50
2:H:388:PHE:CE2	2:H:390:VAL:HG13	2.46	0.50
2:I:77:LEU:HD21	2:I:126:TYR:CD2	2.46	0.50
2:I:90:PHE:CZ	2:I:160:LEU:CB	2.94	0.50
2:I:182:MET:HE2	2:I:216:PRO:HG3	1.91	0.50
2:I:190:ILE:HG22	2:I:195:LEU:HB3	1.93	0.50
2:J:32:TYR:CD1	2:J:34:ARG:CD	2.94	0.50
2:K:138:LYS:NZ	2:K:206:LEU:HB3	2.26	0.50
2:K:153:ILE:CG1	2:K:220:VAL:HG13	2.40	0.50
2:K:426:ASP:HB3	2:K:429:THR:OG1	2.12	0.50
1:A:312:ASN:HB2	1:A:411:ALA:CB	2.41	0.50
1:A:621:ILE:HG12	1:A:657:VAL:HG12	1.93	0.50
1:A:1212:ASP:OD1	1:A:1243:GLY:N	2.24	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1226:GLY:C	1:E:896:PRO:HB3	2.36	0.50
1:B:37:ASP:OD1	1:B:39:LYS:N	2.34	0.50
1:B:61:VAL:O	1:B:61:VAL:CG1	2.58	0.50
1:B:236:THR:OG1	1:B:718:SER:HB3	2.12	0.50
1:B:985:TYR:CE1	1:B:1207:VAL:HG11	2.45	0.50
1:C:235:ASN:ND2	1:C:236:THR:HB	2.27	0.50
1:C:443:ASP:C	1:C:445:ALA:N	2.70	0.50
1:C:1184:ASN:O	1:C:1187:LEU:N	2.44	0.50
1:D:782:ARG:HH22	2:H:51:GLY:CA	1.16	0.50
1:E:61:VAL:O	1:E:61:VAL:HG12	2.07	0.50
1:E:312:ASN:HB2	1:E:411:ALA:CB	2.41	0.50
1:E:393:VAL:HG12	1:E:394:ASP:N	2.23	0.50
1:E:791:GLU:O	1:E:795:ILE:HG13	2.11	0.50
1:F:1002:SER:HB2	1:F:1048:GLY:HA3	1.93	0.50
1:F:1460:LYS:O	1:F:1462:MET:N	2.44	0.50
2:G:271:VAL:HG11	2:G:284:SER:O	2.09	0.50
2:G:350:PRO:HD2	2:G:374:ALA:HB2	1.92	0.50
2:H:190:ILE:HG22	2:H:195:LEU:HB3	1.93	0.50
2:H:331:GLN:HA	2:H:334:VAL:HG22	1.93	0.50
2:I:286:ASN:HB2	2:I:311:GLN:NE2	2.26	0.50
2:I:290:LYS:HB3	2:I:393:ASP:OD2	2.11	0.50
2:I:426:ASP:HB3	2:I:429:THR:OG1	2.12	0.50
2:J:77:LEU:HD21	2:J:126:TYR:CD2	2.46	0.50
2:J:134:GLN:CB	2:J:136:TRP:CD1	2.94	0.50
2:J:153:ILE:CG1	2:J:220:VAL:HG13	2.40	0.50
2:J:249:LYS:HE2	2:J:258:ILE:HD13	1.91	0.50
2:K:90:PHE:CZ	2:K:160:LEU:CB	2.94	0.50
2:K:114:THR:HG23	2:K:115:HIS:N	2.26	0.50
2:L:144:ARG:HG2	2:L:145:GLU:N	2.25	0.50
2:L:388:PHE:CE2	2:L:390:VAL:HG13	2.46	0.50
2:L:426:ASP:HB3	2:L:429:THR:OG1	2.12	0.50
1:A:461:MET:HE3	1:A:461:MET:HA	1.94	0.50
1:A:896:PRO:HG2	1:C:1226:GLY:HA3	1.94	0.50
1:B:243:TRP:CD1	1:B:325:GLU:OE1	2.65	0.50
1:B:355:TYR:CD1	1:B:355:TYR:O	2.65	0.50
1:B:446:GLU:O	1:B:449:ARG:N	2.43	0.50
1:B:515:ARG:HD3	1:B:1367:TYR:CE1	2.40	0.50
1:B:1018:ALA:O	1:B:1065:VAL:HG23	2.11	0.50
1:B:1432:VAL:O	1:B:1436:GLN:N	2.40	0.50
1:C:105:TYR:N	1:C:105:TYR:CD1	2.80	0.50
1:C:652:THR:HG21	1:C:703:GLY:CA	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:731:SER:HB2	1:C:747:SER:HB2	1.94	0.50
1:D:175:ARG:HG3	1:D:175:ARG:NH1	2.23	0.50
1:D:447:LEU:HD11	1:D:451:GLN:CD	2.36	0.50
1:D:486:ALA:O	1:D:487:VAL:C	2.51	0.50
1:D:673:GLU:O	1:D:674:ALA:C	2.54	0.50
1:D:1289:MET:CE	1:D:1289:MET:CB	2.87	0.50
1:D:1431:HIS:O	1:D:1432:VAL:C	2.54	0.50
1:D:1432:VAL:O	1:D:1436:GLN:N	2.40	0.50
1:E:309:THR:CG2	1:E:314:LYS:HG3	2.42	0.50
1:E:547:SER:OG	1:E:549:VAL:HB	2.11	0.50
1:E:676:ALA:O	1:E:677:GLU:C	2.50	0.50
1:E:957:ARG:HD2	1:E:965:LEU:CD1	2.41	0.50
1:F:235:ASN:HD22	1:F:235:ASN:C	2.18	0.50
1:F:381:GLU:CD	1:F:402:ARG:NH1	2.67	0.50
1:F:447:LEU:CD1	1:F:447:LEU:C	2.84	0.50
1:F:503:PHE:N	1:F:503:PHE:CD1	2.79	0.50
1:F:696:TYR:CZ	1:F:700:ILE:CD1	2.94	0.50
2:G:32:TYR:CE2	2:G:194:LYS:CB	2.94	0.50
2:G:32:TYR:CD1	2:G:34:ARG:CD	2.94	0.50
2:G:150:VAL:HG13	2:G:173:VAL:CA	2.38	0.50
2:G:150:VAL:HG12	2:G:172:GLU:O	2.11	0.50
2:G:175:VAL:HG11	2:G:214:TYR:CG	2.47	0.50
2:G:302:MET:HE1	2:G:334:VAL:HG13	1.92	0.50
2:G:426:ASP:HB3	2:G:429:THR:OG1	2.12	0.50
2:G:449:LEU:HD11	2:G:451:VAL:CG1	2.31	0.50
2:H:77:LEU:HD22	2:H:130:THR:CG2	2.42	0.50
2:H:150:VAL:HG12	2:H:172:GLU:O	2.11	0.50
2:H:286:ASN:HB2	2:H:311:GLN:NE2	2.26	0.50
2:H:317:LYS:HE3	2:H:345:ILE:CB	2.40	0.50
2:I:150:VAL:HG12	2:I:172:GLU:O	2.11	0.50
2:J:43:GLN:NE2	2:J:123:VAL:HG13	2.26	0.50
2:J:77:LEU:HD22	2:J:130:THR:CG2	2.42	0.50
2:J:174:HIS:CD2	2:J:176:TYR:CE1	2.99	0.50
2:J:468:ALA:O	2:J:471:LYS:HB2	2.12	0.50
2:L:77:LEU:HD22	2:L:130:THR:CG2	2.42	0.50
2:L:249:LYS:O	2:L:250:ALA:HB3	2.11	0.50
2:L:367:ILE:HD13	2:L:367:ILE:C	2.36	0.50
1:A:47:HIS:HE1	1:A:176:SER:CB	2.25	0.50
1:A:606:LEU:C	1:A:607:THR:CG2	2.83	0.50
1:A:736:ALA:O	1:A:737:GLU:C	2.53	0.50
1:A:1421:GLU:HG3	1:A:1451:VAL:HG11	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:452:GLN:HG3	1:B:764:THR:HG22	1.94	0.50
1:B:569:ILE:HG22	1:B:589:ILE:HG22	1.93	0.50
1:B:777:GLY:CA	2:G:52:VAL:HG11	2.37	0.50
1:B:780:ARG:NH2	2:G:50:CYS:HG	2.07	0.50
1:B:1245:ARG:HG3	1:B:1245:ARG:O	2.10	0.50
1:C:30:HIS:ND1	1:C:1238:THR:HA	2.26	0.50
1:C:209:GLN:HG3	1:C:210:ARG:H	1.76	0.50
1:C:309:THR:CG2	1:C:314:LYS:HG3	2.42	0.50
1:C:353:MET:O	1:C:353:MET:HG3	2.11	0.50
1:C:509:PRO:HB3	1:C:975:TYR:HD1	1.77	0.50
1:C:706:LYS:NZ	1:C:940:GLU:OE1	2.40	0.50
1:C:798:LEU:O	1:C:802:VAL:HG22	2.12	0.50
1:C:1400:SER:O	1:C:1403:LEU:N	2.27	0.50
1:C:1415:ILE:CG2	1:C:1421:GLU:HB2	2.41	0.50
1:D:503:PHE:N	1:D:503:PHE:CD1	2.79	0.50
1:E:1:CYS:SG	1:E:211:TYR:HD2	2.35	0.50
1:E:652:THR:HG21	1:E:703:GLY:CA	2.41	0.50
1:E:949:VAL:C	1:E:950:THR:O	2.50	0.50
1:E:1317:THR:CG2	1:E:1318:ASN:N	2.63	0.50
1:E:1458:VAL:HG13	1:E:1459:PRO:CD	2.42	0.50
1:F:211:TYR:O	1:F:212:SER:CB	2.58	0.50
1:F:820:ARG:HB3	1:F:821:PRO:HD3	1.94	0.50
1:F:1102:CYS:SG	6:F:2476:F3S:S1	3.06	0.50
2:G:97:ILE:HD11	2:G:450:VAL:HB	1.92	0.50
2:G:249:LYS:CE	2:G:258:ILE:HD13	2.42	0.50
2:G:468:ALA:O	2:G:471:LYS:HB2	2.12	0.50
2:H:134:GLN:CB	2:H:136:TRP:CD1	2.94	0.50
2:H:150:VAL:HG13	2:H:173:VAL:CA	2.38	0.50
2:H:388:PHE:CE2	2:H:390:VAL:CG1	2.95	0.50
2:H:419:ARG:HD3	2:H:419:ARG:C	2.37	0.50
2:H:431:MET:CG	2:H:438:PHE:CE2	2.94	0.50
2:H:468:ALA:O	2:H:471:LYS:HB2	2.12	0.50
2:I:55:CYS:SG	2:I:65:ILE:HD12	2.52	0.50
2:I:377:ARG:O	2:I:378:GLN:HB3	2.10	0.50
2:J:68:TRP:HB2	2:J:80:ALA:HB1	1.91	0.50
2:J:302:MET:HE2	2:J:333:GLU:C	2.36	0.50
2:J:449:LEU:CD2	2:J:452:TRP:CD2	2.93	0.50
2:K:419:ARG:HD3	2:K:419:ARG:C	2.37	0.50
2:L:331:GLN:HA	2:L:334:VAL:HG22	1.93	0.50
1:A:492:TYR:CG	1:A:761:GLN:HG2	2.47	0.50
1:A:521:SER:OG	1:A:522:LEU:N	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:528:ASN:HB2	1:A:542:LEU:HD22	1.90	0.50
1:A:676:ALA:O	1:A:679:HIS:N	2.45	0.50
1:A:731:SER:HA	1:A:747:SER:CB	2.42	0.50
1:A:1230:GLN:HE21	1:A:1267:ARG:HD3	1.76	0.50
1:A:1236:ARG:C	1:A:1238:THR:N	2.67	0.50
1:B:24:ALA:C	1:B:26:LYS:H	2.19	0.50
1:B:74:GLY:HA2	1:B:172:LEU:HD13	1.92	0.50
1:B:447:LEU:HD11	1:B:451:GLN:CD	2.36	0.50
1:B:515:ARG:NH2	1:B:966:ILE:HB	2.16	0.50
1:B:621:ILE:HG13	1:B:658:LEU:HD12	1.93	0.50
1:B:651:ASP:OD1	1:B:651:ASP:N	2.38	0.50
1:B:689:LEU:O	1:B:690:GLU:C	2.55	0.50
1:B:1070:ASP:OD1	1:B:1070:ASP:C	2.55	0.50
1:B:1102:CYS:SG	6:B:2476:F3S:S1	3.06	0.50
1:B:1428:ILE:O	1:B:1428:ILE:HG22	2.10	0.50
1:C:228:LEU:HD22	1:C:278:ASP:HA	1.94	0.50
1:C:353:MET:HE2	1:C:366:GLY:C	2.36	0.50
1:C:560:ASP:C	1:C:562:MET:N	2.70	0.50
1:C:1052:VAL:O	1:C:1053:HIS:C	2.51	0.50
1:C:1253:LYS:O	1:C:1253:LYS:HG3	2.11	0.50
1:D:74:GLY:HA2	1:D:172:LEU:HD13	1.92	0.50
1:D:443:ASP:O	1:D:444:LYS:C	2.54	0.50
1:D:1088:GLU:HG2	1:D:1162:ILE:HD13	1.92	0.50
1:E:227:MET:CE	1:E:282:GLU:CG	2.88	0.50
1:E:235:ASN:ND2	1:E:236:THR:HB	2.27	0.50
1:E:449:ARG:O	1:E:450:ARG:O	2.28	0.50
1:E:704:LEU:C	1:E:706:LYS:H	2.20	0.50
1:E:1220:ARG:HG3	1:E:1224:GLU:CG	2.38	0.50
1:F:452:GLN:HG3	1:F:764:THR:HG22	1.94	0.50
1:F:689:LEU:O	1:F:690:GLU:C	2.55	0.50
1:F:885:GLY:C	1:F:887:GLY:N	2.68	0.50
1:F:1141:PHE:O	1:F:1142:LEU:C	2.54	0.50
2:G:415:LEU:CD2	2:G:432:THR:HG23	2.41	0.50
2:H:114:THR:HG23	2:H:115:HIS:N	2.26	0.50
2:H:249:LYS:CE	2:H:258:ILE:HD13	2.42	0.50
2:I:43:GLN:NE2	2:I:123:VAL:HG13	2.26	0.50
2:J:32:TYR:CE2	2:J:194:LYS:HB3	2.46	0.50
2:J:190:ILE:HG22	2:J:195:LEU:HB3	1.93	0.50
2:J:200:VAL:O	2:J:204:VAL:HG12	2.12	0.50
2:J:367:ILE:HD12	2:J:369:LEU:HD11	1.93	0.50
2:J:416:LYS:HE3	2:J:433:ASN:CB	2.41	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:68:TRP:CZ3	2:K:84:SER:CB	2.93	0.50
2:K:249:LYS:CE	2:K:258:ILE:HD13	2.42	0.50
2:K:449:LEU:CD2	2:K:452:TRP:CD2	2.93	0.50
2:L:147:GLY:HA2	2:L:171:TYR:HD1	1.75	0.50
2:L:371:VAL:HG21	2:L:386:SER:CB	2.39	0.50
2:L:388:PHE:CE2	2:L:390:VAL:CG1	2.95	0.50
1:A:281:PHE:O	1:A:285:VAL:HG23	2.11	0.50
1:A:316:LEU:O	1:A:317:ILE:C	2.53	0.50
1:A:1184:ASN:O	1:A:1187:LEU:N	2.44	0.50
1:A:1226:GLY:HA3	1:E:896:PRO:HG2	1.94	0.50
1:B:211:TYR:O	1:B:212:SER:CB	2.58	0.50
1:B:782:ARG:CA	2:G:52:VAL:C	2.84	0.50
1:B:850:ARG:HD2	1:B:878:ILE:HD12	1.93	0.50
1:B:883:ASP:O	1:B:884:SER:C	2.55	0.50
1:C:133:VAL:CG1	1:C:134:GLY:N	2.74	0.50
1:C:782:ARG:C	1:C:784:SER:N	2.70	0.50
1:C:1250:VAL:HG13	1:C:1254:PHE:HD2	1.75	0.50
1:C:1318:ASN:HD22	1:C:1318:ASN:H	1.60	0.50
1:C:1417:VAL:HG12	1:C:1418:GLY:N	2.27	0.50
1:C:1421:GLU:HG3	1:C:1451:VAL:HG11	1.94	0.50
1:D:269:VAL:HG23	1:D:270:GLY:N	2.21	0.50
1:D:693:MET:HE3	1:D:693:MET:CA	2.39	0.50
1:D:797:THR:HG23	1:D:812:LYS:HE2	1.94	0.50
1:D:1002:SER:HB2	1:D:1048:GLY:HA3	1.93	0.50
1:E:339:ARG:HG3	1:E:396:GLN:HG3	1.93	0.50
1:E:353:MET:HE2	1:E:366:GLY:C	2.36	0.50
1:F:355:TYR:CD1	1:F:355:TYR:O	2.65	0.50
1:F:558:MET:C	1:F:560:ASP:N	2.69	0.50
1:F:871:LEU:O	1:F:872:ASN:C	2.54	0.50
1:F:1438:ARG:CZ	2:G:376:GLY:C	2.84	0.50
2:G:68:TRP:CZ3	2:G:84:SER:CB	2.93	0.50
2:G:292:VAL:HG22	2:G:394:LEU:CD1	2.30	0.50
2:H:132:TRP:HD1	2:H:202:ARG:CB	2.24	0.50
2:H:147:GLY:HA2	2:H:171:TYR:HD1	1.75	0.50
2:I:91:PRO:HD2	2:I:203:ARG:HH22	1.76	0.50
2:I:200:VAL:O	2:I:204:VAL:HG12	2.12	0.50
2:J:32:TYR:CE2	2:J:194:LYS:CB	2.94	0.50
2:J:367:ILE:HD13	2:J:367:ILE:C	2.36	0.50
2:K:290:LYS:HB3	2:K:393:ASP:OD2	2.11	0.50
2:K:388:PHE:CE2	2:K:390:VAL:CG1	2.95	0.50
2:K:434:MET:CB	2:K:437:VAL:HG12	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:468:ALA:O	2:K:471:LYS:HB2	2.12	0.50
2:L:32:TYR:CE2	2:L:194:LYS:HB3	2.46	0.50
2:L:43:GLN:NE2	2:L:123:VAL:HG13	2.26	0.50
2:L:146:LEU:HD22	2:L:146:LEU:N	2.26	0.50
1:A:1:CYS:SG	1:A:211:TYR:HD2	2.35	0.50
1:A:30:HIS:ND1	1:A:1238:THR:HA	2.26	0.50
1:A:547:SER:OG	1:A:549:VAL:HB	2.11	0.50
1:A:763:ALA:O	1:A:767:ASN:HB2	2.11	0.50
1:A:782:ARG:HG2	2:J:53:PRO:HD2	0.55	0.50
1:A:798:LEU:O	1:A:802:VAL:HG22	2.12	0.50
1:A:847:THR:HG21	1:C:1218:ASP:OD2	2.12	0.50
1:A:860:MET:HE1	1:A:893:ARG:NH1	2.27	0.50
1:A:1253:LYS:O	1:A:1253:LYS:HG3	2.11	0.50
1:B:782:ARG:HH22	2:G:51:GLY:CA	1.16	0.50
1:B:877:ARG:CG	1:F:1229:MET:CA	2.78	0.50
1:C:243:TRP:CE3	1:C:243:TRP:HA	2.47	0.50
1:C:547:SER:OG	1:C:549:VAL:HB	2.11	0.50
1:C:689:LEU:O	1:C:689:LEU:HG	2.11	0.50
1:C:969:PRO:HD2	1:C:970:PRO:CD	2.42	0.50
1:C:1054:GLN:O	1:C:1057:THR:HB	2.12	0.50
1:D:243:TRP:CD1	1:D:325:GLU:OE1	2.65	0.50
1:D:381:GLU:CD	1:D:402:ARG:NH1	2.67	0.50
1:D:875:MET:CE	1:D:1139:PHE:HE2	2.25	0.50
1:D:883:ASP:O	1:D:884:SER:C	2.55	0.50
1:E:673:GLU:O	1:E:674:ALA:C	2.53	0.50
1:E:969:PRO:HD2	1:E:970:PRO:CD	2.42	0.50
1:E:979:ASP:O	1:E:980:LEU:C	2.55	0.50
1:F:243:TRP:CD1	1:F:325:GLU:OE1	2.65	0.50
1:F:355:TYR:C	1:F:355:TYR:HD1	2.20	0.50
1:F:838:VAL:HG12	1:F:839:PRO:CD	2.40	0.50
1:F:1204:ARG:O	1:F:1206:GLU:N	2.45	0.50
2:G:371:VAL:HG21	2:G:386:SER:CB	2.39	0.50
2:H:290:LYS:HB3	2:H:393:ASP:OD2	2.11	0.50
2:H:479:ALA:O	2:H:480:ALA:HB3	2.12	0.50
2:K:77:LEU:HD22	2:K:130:THR:CG2	2.41	0.50
2:K:132:TRP:HD1	2:K:202:ARG:CB	2.24	0.50
2:K:174:HIS:CD2	2:K:176:TYR:CE1	2.99	0.50
2:K:201:GLU:O	2:K:204:VAL:HG13	2.11	0.50
2:K:302:MET:HE2	2:K:333:GLU:C	2.36	0.50
2:L:286:ASN:HB2	2:L:311:GLN:NE2	2.26	0.50
1:A:209:GLN:HG3	1:A:210:ARG:H	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:447:LEU:O	1:B:451:GLN:HG3	2.10	0.50
1:B:451:GLN:OE1	1:B:773:LEU:HD11	2.11	0.50
1:B:503:PHE:N	1:B:503:PHE:CD1	2.79	0.50
1:B:1204:ARG:O	1:B:1206:GLU:N	2.45	0.50
1:B:1278:ALA:O	1:B:1279:PHE:HB2	2.12	0.50
1:B:1420:TYR:C	1:B:1422:SER:N	2.69	0.50
1:B:1431:HIS:O	1:B:1432:VAL:C	2.54	0.50
1:C:1:CYS:SG	1:C:211:TYR:HD2	2.35	0.50
1:C:359:THR:CG2	1:C:378:GLN:HA	2.42	0.50
1:C:461:MET:HA	1:C:461:MET:HE3	1.94	0.50
1:C:673:GLU:O	1:C:674:ALA:C	2.53	0.50
1:D:720:ARG:O	1:D:722:GLY:N	2.45	0.50
1:D:824:GLN:O	1:D:827:ASP:CB	2.58	0.50
1:E:1:CYS:HB3	3:E:2473:OMT:CE	2.41	0.50
1:E:484:PRO:HG3	1:E:823:MET:HG3	1.94	0.50
1:E:997:THR:CG2	1:E:998:VAL:N	2.73	0.50
1:F:1183:LEU:O	1:F:1187:LEU:HG	2.11	0.50
1:F:1435:THR:HG23	1:F:1437:SER:CB	2.42	0.50
2:G:43:GLN:NE2	2:G:123:VAL:HG13	2.26	0.50
2:G:388:PHE:CE2	2:G:390:VAL:CG1	2.95	0.50
2:G:479:ALA:O	2:G:480:ALA:HB3	2.12	0.50
2:H:93:ILE:HD12	2:H:96:ARG:HD2	1.94	0.50
2:H:134:GLN:HB3	2:H:136:TRP:NE1	2.26	0.50
2:H:317:LYS:HZ2	2:H:345:ILE:HG21	1.76	0.50
2:H:434:MET:CB	2:H:437:VAL:HG12	2.42	0.50
2:I:68:TRP:HB2	2:I:80:ALA:HB1	1.91	0.50
2:I:302:MET:HG3	2:I:333:GLU:OE2	2.11	0.50
2:I:345:ILE:HD13	2:I:345:ILE:N	2.17	0.50
2:J:43:GLN:OE1	2:J:119:THR:HG23	2.12	0.50
2:J:132:TRP:HD1	2:J:202:ARG:CB	2.24	0.50
2:J:479:ALA:O	2:J:480:ALA:HB3	2.12	0.50
2:K:93:ILE:HD12	2:K:96:ARG:HD2	1.94	0.50
2:K:182:MET:HE1	2:K:216:PRO:HG3	1.94	0.50
2:K:250:ALA:CB	2:K:251:PRO:HD2	2.35	0.50
2:K:286:ASN:HB2	2:K:311:GLN:NE2	2.26	0.50
2:K:317:LYS:HZ2	2:K:345:ILE:HG21	1.77	0.50
2:L:182:MET:HE1	2:L:216:PRO:HG3	1.94	0.50
1:A:105:TYR:N	1:A:105:TYR:CD1	2.80	0.49
1:A:353:MET:HE2	1:A:366:GLY:C	2.36	0.49
1:A:664:THR:HA	1:A:720:ARG:HE	1.77	0.49
1:A:704:LEU:C	1:A:706:LYS:H	2.20	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1359:GLY:O	1:A:1360:CYS:CB	2.58	0.49
1:B:520:MET:HE1	1:B:705:LEU:O	2.12	0.49
1:B:720:ARG:O	1:B:722:GLY:N	2.45	0.49
1:B:1401:LEU:HD11	1:B:1405:ILE:HB	1.94	0.49
1:C:62:ILE:O	1:C:62:ILE:CG2	2.60	0.49
1:C:442:MET:CE	1:C:447:LEU:HA	2.41	0.49
1:C:621:ILE:HG12	1:C:657:VAL:HG12	1.93	0.49
1:C:676:ALA:O	1:C:679:HIS:N	2.45	0.49
1:C:705:LEU:HD23	1:C:705:LEU:N	2.26	0.49
1:C:731:SER:HA	1:C:747:SER:CB	2.42	0.49
1:D:236:THR:HG22	1:D:328:ASP:N	2.24	0.49
1:D:290:THR:O	1:D:294:VAL:HG23	2.12	0.49
1:D:452:GLN:HG3	1:D:764:THR:HG22	1.94	0.49
1:D:479:MET:HG3	1:D:1104:MET:SD	2.52	0.49
1:D:569:ILE:HG22	1:D:589:ILE:HG22	1.93	0.49
1:D:689:LEU:O	1:D:690:GLU:C	2.55	0.49
1:D:1394:VAL:HG11	1:D:1401:LEU:CD2	2.40	0.49
1:E:105:TYR:N	1:E:105:TYR:CD1	2.80	0.49
1:E:235:ASN:ND2	1:E:236:THR:N	2.38	0.49
1:E:353:MET:O	1:E:353:MET:HG3	2.11	0.49
1:E:454:PHE:CD2	1:E:648:GLU:HA	2.47	0.49
1:E:676:ALA:O	1:E:679:HIS:N	2.45	0.49
1:E:731:SER:HA	1:E:747:SER:CB	2.42	0.49
1:F:197:ASP:OD1	1:F:199:ARG:HB2	2.12	0.49
1:F:260:MET:O	1:F:261:GLN:C	2.48	0.49
1:F:430:VAL:HG22	1:F:557:ALA:HB3	1.94	0.49
1:F:447:LEU:HD11	1:F:451:GLN:CD	2.36	0.49
1:F:451:GLN:OE1	1:F:773:LEU:HD11	2.11	0.49
1:F:486:ALA:O	1:F:487:VAL:C	2.51	0.49
1:F:515:ARG:NE	1:F:1367:TYR:HE1	2.09	0.49
1:F:702:ASP:O	1:F:703:GLY:C	2.55	0.49
1:F:720:ARG:O	1:F:722:GLY:N	2.45	0.49
1:F:780:ARG:NH2	2:I:54:PHE:CD1	2.78	0.49
1:F:1080:VAL:O	1:F:1081:ILE:C	2.54	0.49
2:G:55:CYS:SG	2:G:65:ILE:HD12	2.52	0.49
2:G:77:LEU:CA	2:G:127:ILE:HD11	2.39	0.49
2:H:166:LEU:HD23	2:H:461:ALA:CB	2.36	0.49
2:H:416:LYS:HE3	2:H:433:ASN:CB	2.41	0.49
2:I:132:TRP:HD1	2:I:202:ARG:CB	2.24	0.49
2:J:388:PHE:CE2	2:J:390:VAL:CG1	2.95	0.49
2:J:415:LEU:HD22	2:J:416:LYS:N	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:43:GLN:NE2	2:K:123:VAL:HG13	2.26	0.49
2:K:71:LEU:HD21	2:K:76:ARG:C	2.37	0.49
2:K:349:ALA:HB3	2:K:350:PRO:CD	2.39	0.49
2:L:161:ALA:CB	2:L:454:ILE:HG12	2.40	0.49
1:A:116:ILE:HD13	1:A:190:THR:HG21	1.94	0.49
1:A:510:PRO:HD2	1:A:970:PRO:CB	2.34	0.49
1:A:1141:PHE:O	1:A:1142:LEU:C	2.55	0.49
1:B:335:MET:HE3	1:B:342:VAL:HB	1.93	0.49
1:B:561:TYR:CD1	1:B:561:TYR:C	2.90	0.49
1:B:629:THR:O	1:B:630:HIS:C	2.50	0.49
1:B:1211:LEU:HG	1:B:1215:ILE:HD11	1.94	0.49
1:C:316:LEU:C	1:C:316:LEU:HD12	2.36	0.49
1:C:417:ASP:O	1:C:418:LYS:C	2.52	0.49
1:C:454:PHE:CD2	1:C:648:GLU:HA	2.47	0.49
1:C:636:LEU:C	1:C:638:THR:N	2.68	0.49
1:C:825:LEU:HD12	1:C:1186:ARG:NH1	2.13	0.49
1:C:847:THR:HG21	1:E:1218:ASP:OD2	2.12	0.49
1:C:896:PRO:HG2	1:E:1226:GLY:HA3	1.94	0.49
1:C:1023:ILE:HD12	1:C:1023:ILE:N	2.27	0.49
1:C:1359:GLY:O	1:C:1360:CYS:HB3	2.12	0.49
1:C:1458:VAL:HG13	1:C:1459:PRO:CD	2.42	0.49
1:D:437:GLY:O	1:D:438:GLU:C	2.48	0.49
1:E:62:ILE:O	1:E:62:ILE:CG2	2.60	0.49
1:E:509:PRO:HB3	1:E:975:TYR:HD1	1.77	0.49
1:E:763:ALA:O	1:E:767:ASN:HB2	2.11	0.49
1:E:938:PRO:O	1:E:939:GLY:C	2.53	0.49
1:E:1023:ILE:HD12	1:E:1023:ILE:N	2.27	0.49
1:F:236:THR:OG1	1:F:718:SER:HB3	2.12	0.49
1:F:335:MET:HE3	1:F:342:VAL:HB	1.93	0.49
1:F:515:ARG:NH2	1:F:966:ILE:HB	2.16	0.49
1:F:520:MET:HE1	1:F:705:LEU:O	2.12	0.49
1:F:595:ASP:O	1:F:596:ALA:C	2.51	0.49
1:F:634:SER:O	1:F:635:ASN:C	2.52	0.49
1:F:883:ASP:O	1:F:884:SER:C	2.55	0.49
2:G:77:LEU:HD22	2:G:130:THR:CG2	2.42	0.49
2:G:93:ILE:HD12	2:G:96:ARG:HD2	1.94	0.49
2:G:302:MET:HG3	2:G:333:GLU:OE2	2.11	0.49
2:G:415:LEU:HD23	2:G:432:THR:HG23	1.94	0.49
2:G:430:LYS:HG2	2:G:459:ASP:OD1	2.13	0.49
2:H:43:GLN:OE1	2:H:119:THR:HG23	2.12	0.49
2:H:383:ILE:HD13	2:H:383:ILE:C	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:415:LEU:HD22	2:H:415:LEU:C	2.37	0.49
2:H:415:LEU:HD22	2:H:416:LYS:N	2.27	0.49
2:H:426:ASP:HB3	2:H:429:THR:OG1	2.12	0.49
2:I:32:TYR:CD1	2:I:34:ARG:CD	2.94	0.49
2:I:77:LEU:HD22	2:I:130:THR:CG2	2.41	0.49
2:I:134:GLN:CB	2:I:136:TRP:CD1	2.94	0.49
2:I:201:GLU:O	2:I:204:VAL:HG13	2.11	0.49
2:I:259:VAL:O	2:I:396:ILE:HA	2.12	0.49
2:I:415:LEU:HD22	2:I:416:LYS:N	2.27	0.49
2:J:93:ILE:HD12	2:J:96:ARG:HD2	1.94	0.49
2:J:383:ILE:HD13	2:J:383:ILE:C	2.37	0.49
2:J:434:MET:CB	2:J:437:VAL:HG12	2.42	0.49
2:K:134:GLN:CB	2:K:136:TRP:CD1	2.94	0.49
2:K:479:ALA:O	2:K:480:ALA:HB3	2.12	0.49
2:L:32:TYR:CD1	2:L:34:ARG:CD	2.94	0.49
2:L:259:VAL:O	2:L:396:ILE:HA	2.12	0.49
2:L:292:VAL:HG22	2:L:394:LEU:CD1	2.30	0.49
2:L:468:ALA:O	2:L:471:LYS:HB2	2.12	0.49
1:A:207:TYR:N	1:A:207:TYR:HD1	2.08	0.49
1:A:243:TRP:HA	1:A:243:TRP:CE3	2.47	0.49
1:A:369:THR:O	1:A:371:MET:N	2.43	0.49
1:A:443:ASP:C	1:A:445:ALA:N	2.70	0.49
1:A:918:THR:O	1:A:919:ALA:C	2.51	0.49
1:A:1417:VAL:HG12	1:A:1418:GLY:N	2.27	0.49
1:A:1432:VAL:O	1:A:1433:THR:C	2.53	0.49
1:B:290:THR:O	1:B:294:VAL:HG23	2.12	0.49
1:B:562:MET:HE2	1:B:605:ILE:HD11	1.94	0.49
1:B:1204:ARG:O	1:B:1205:ASN:C	2.51	0.49
1:B:1221:PRO:HD2	1:B:1229:MET:CE	2.26	0.49
1:C:521:SER:C	1:C:522:LEU:HD23	2.38	0.49
1:C:1368:MET:HB3	1:C:1387:MET:HG3	1.93	0.49
1:D:197:ASP:OD1	1:D:199:ARG:HB2	2.12	0.49
1:D:520:MET:HE1	1:D:705:LEU:O	2.12	0.49
1:D:1080:VAL:O	1:D:1081:ILE:C	2.54	0.49
1:D:1204:ARG:O	1:D:1206:GLU:N	2.45	0.49
1:D:1400:SER:O	1:D:1401:LEU:C	2.56	0.49
1:D:1420:TYR:C	1:D:1422:SER:N	2.69	0.49
1:E:317:ILE:C	1:E:321:ASN:HD22	2.18	0.49
1:E:689:LEU:O	1:E:689:LEU:HG	2.11	0.49
1:E:731:SER:HB2	1:E:747:SER:HB2	1.94	0.49
1:E:824:GLN:HE21	1:E:824:GLN:HA	1.65	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:302:ALA:HB2	1:F:347:ARG:HH11	1.76	0.49
1:F:310:PRO:CG	1:F:404:ARG:NH2	2.66	0.49
1:F:777:GLY:C	2:I:52:VAL:CG1	2.83	0.49
1:F:1278:ALA:O	1:F:1279:PHE:HB2	2.12	0.49
2:G:65:ILE:N	2:G:66:PRO:HD2	2.28	0.49
2:G:109:VAL:O	2:G:112:GLN:HG2	2.09	0.49
2:G:431:MET:CG	2:G:438:PHE:CE2	2.94	0.49
2:H:71:LEU:HD21	2:H:76:ARG:C	2.37	0.49
2:H:174:HIS:HD2	2:H:176:TYR:CD1	2.30	0.49
2:H:212:VAL:CG2	2:H:214:TYR:CE1	2.95	0.49
2:H:249:LYS:O	2:H:250:ALA:HB3	2.11	0.49
2:H:259:VAL:O	2:H:396:ILE:HA	2.12	0.49
2:H:302:MET:HE2	2:H:333:GLU:C	2.36	0.49
2:H:349:ALA:HB3	2:H:350:PRO:CD	2.39	0.49
2:H:367:ILE:HD13	2:H:367:ILE:C	2.36	0.49
2:I:93:ILE:HD12	2:I:96:ARG:HD2	1.94	0.49
2:I:226:LEU:N	2:I:227:PRO:HD2	2.28	0.49
2:I:249:LYS:O	2:I:250:ALA:HB3	2.11	0.49
2:J:71:LEU:HD21	2:J:76:ARG:C	2.37	0.49
2:J:174:HIS:HD2	2:J:176:TYR:CD1	2.30	0.49
2:J:249:LYS:CE	2:J:258:ILE:HD13	2.42	0.49
2:J:286:ASN:HB2	2:J:311:GLN:NE2	2.26	0.49
2:K:134:GLN:HB3	2:K:136:TRP:NE1	2.27	0.49
2:K:388:PHE:CE2	2:K:390:VAL:HG13	2.46	0.49
2:K:415:LEU:HD22	2:K:416:LYS:N	2.27	0.49
2:L:383:ILE:HD13	2:L:383:ILE:C	2.37	0.49
2:L:419:ARG:HD3	2:L:419:ARG:C	2.37	0.49
2:L:431:MET:CG	2:L:438:PHE:CE2	2.94	0.49
1:A:225:PHE:HB3	1:A:278:ASP:OD2	2.12	0.49
1:A:342:VAL:HG11	1:A:390:MET:CE	2.37	0.49
1:A:393:VAL:HG12	1:A:394:ASP:N	2.23	0.49
1:A:710:LYS:CG	1:A:939:GLY:HA3	2.34	0.49
1:A:791:GLU:O	1:A:795:ILE:HG13	2.11	0.49
1:A:877:ARG:CG	1:C:1229:MET:CA	2.80	0.49
1:A:960:THR:CG2	1:A:963:VAL:HG21	2.42	0.49
1:A:1023:ILE:HD12	1:A:1023:ILE:N	2.27	0.49
1:A:1368:MET:HB3	1:A:1387:MET:HG3	1.94	0.49
1:A:1415:ILE:CG2	1:A:1421:GLU:HB2	2.41	0.49
1:A:1417:VAL:CG1	1:A:1418:GLY:N	2.73	0.49
1:B:572:THR:CG2	1:B:615:ARG:HB3	2.42	0.49
1:B:820:ARG:CB	1:B:821:PRO:HD2	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1207:VAL:HG13	1:B:1208:PRO:HD2	1.93	0.49
1:C:292:PRO:O	1:C:293:MET:C	2.55	0.49
1:C:369:THR:C	1:C:371:MET:H	2.20	0.49
1:C:704:LEU:C	1:C:706:LYS:H	2.20	0.49
1:C:997:THR:CG2	1:C:998:VAL:N	2.73	0.49
1:D:30:HIS:HD2	1:D:31:ARG:N	2.10	0.49
1:D:561:TYR:CD1	1:D:561:TYR:C	2.90	0.49
1:D:608:ASP:OD2	1:D:647:ALA:N	2.42	0.49
1:D:1184:ASN:O	1:D:1186:ARG:N	2.46	0.49
1:D:1440:ALA:O	1:D:1441:ALA:C	2.53	0.49
1:E:228:LEU:HD22	1:E:278:ASP:HA	1.94	0.49
1:E:359:THR:HG23	1:E:378:GLN:CB	2.41	0.49
1:E:461:MET:HA	1:E:461:MET:HE3	1.94	0.49
1:E:780:ARG:HB3	2:L:52:VAL:N	2.26	0.49
1:E:1054:GLN:O	1:E:1057:THR:HB	2.12	0.49
1:F:777:GLY:O	1:F:788:HIS:CE1	2.51	0.49
1:F:848:ALA:O	1:F:849:ILE:C	2.54	0.49
1:F:1400:SER:O	1:F:1401:LEU:C	2.56	0.49
2:G:132:TRP:HD1	2:G:202:ARG:CB	2.24	0.49
2:G:134:GLN:HB3	2:G:136:TRP:NE1	2.26	0.49
2:G:200:VAL:O	2:G:204:VAL:HG12	2.12	0.49
2:G:286:ASN:HB2	2:G:311:GLN:NE2	2.26	0.49
2:G:388:PHE:CE2	2:G:390:VAL:HG13	2.46	0.49
2:H:257:ASN:O	2:H:394:LEU:HD23	2.12	0.49
2:H:469:LYS:CD	2:H:476:VAL:HB	2.38	0.49
2:I:249:LYS:CE	2:I:258:ILE:HD13	2.42	0.49
2:I:415:LEU:HD22	2:I:415:LEU:C	2.37	0.49
2:I:434:MET:CB	2:I:437:VAL:HG12	2.42	0.49
2:J:134:GLN:HB3	2:J:136:TRP:NE1	2.26	0.49
2:J:290:LYS:HB3	2:J:393:ASP:OD2	2.11	0.49
2:J:415:LEU:HD22	2:J:415:LEU:C	2.37	0.49
2:J:415:LEU:CD2	2:J:432:THR:HG23	2.41	0.49
2:J:430:LYS:HG2	2:J:459:ASP:OD1	2.13	0.49
2:L:93:ILE:HD12	2:L:96:ARG:HD2	1.94	0.49
1:A:51:PRO:HG3	1:A:200:PHE:CD2	2.48	0.49
1:A:203:ASP:OD1	1:A:203:ASP:N	2.44	0.49
1:A:531:ASN:C	1:A:533:LEU:H	2.18	0.49
1:A:689:LEU:O	1:A:689:LEU:HG	2.11	0.49
1:A:780:ARG:HB3	2:J:51:GLY:O	2.11	0.49
1:A:969:PRO:HD2	1:A:970:PRO:CD	2.42	0.49
1:A:1218:ASP:OD2	1:E:847:THR:HG21	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1359:GLY:O	1:A:1360:CYS:HB3	2.12	0.49
1:B:182:MET:CE	1:B:217:PRO:C	2.62	0.49
1:B:443:ASP:O	1:B:444:LYS:C	2.54	0.49
1:B:526:LEU:N	1:B:526:LEU:CD1	2.64	0.49
1:B:594:GLU:O	1:B:597:VAL:N	2.45	0.49
1:B:780:ARG:NH2	2:G:54:PHE:CD1	2.78	0.49
1:B:797:THR:HG23	1:B:812:LYS:HE2	1.94	0.49
1:B:1184:ASN:O	1:B:1186:ARG:N	2.46	0.49
1:C:47:HIS:HE1	1:C:176:SER:CB	2.25	0.49
1:C:90:ARG:HB3	1:C:107:TRP:CH2	2.48	0.49
1:C:492:TYR:CG	1:C:761:GLN:HG2	2.47	0.49
1:C:877:ARG:CG	1:E:1229:MET:CA	2.80	0.49
1:C:1245:ARG:O	1:C:1246:LEU:C	2.55	0.49
1:D:236:THR:OG1	1:D:718:SER:HB3	2.12	0.49
1:D:355:TYR:CD1	1:D:355:TYR:O	2.65	0.49
1:D:430:VAL:HG22	1:D:557:ALA:HB3	1.94	0.49
1:D:589:ILE:O	1:D:593:THR:OG1	2.28	0.49
1:D:838:VAL:HG12	1:D:839:PRO:CD	2.39	0.49
1:E:90:ARG:HB3	1:E:107:TRP:CH2	2.48	0.49
1:E:443:ASP:C	1:E:445:ALA:N	2.70	0.49
1:E:531:ASN:C	1:E:533:LEU:H	2.18	0.49
1:E:798:LEU:O	1:E:802:VAL:HG22	2.12	0.49
1:E:961:PRO:C	1:E:963:VAL:H	2.20	0.49
1:E:1421:GLU:HG3	1:E:1451:VAL:HG11	1.94	0.49
1:F:242:ASN:HA	1:F:245:LYS:HG3	1.95	0.49
1:F:290:THR:O	1:F:294:VAL:HG23	2.12	0.49
1:F:810:PHE:O	1:F:813:TYR:HB3	2.13	0.49
1:F:978:GLU:O	1:F:981:ALA:HB3	2.13	0.49
1:F:1427:LEU:O	1:F:1430:GLU:N	2.46	0.49
2:G:302:MET:SD	2:G:333:GLU:HG3	2.53	0.49
2:G:415:LEU:HD22	2:G:416:LYS:N	2.27	0.49
2:G:419:ARG:HD3	2:G:419:ARG:C	2.37	0.49
2:I:65:ILE:N	2:I:66:PRO:HD2	2.28	0.49
2:I:388:PHE:CE2	2:I:390:VAL:CG1	2.95	0.49
2:I:416:LYS:HE3	2:I:433:ASN:CB	2.41	0.49
2:I:431:MET:CG	2:I:438:PHE:CE2	2.94	0.49
2:I:479:ALA:O	2:I:480:ALA:HB3	2.12	0.49
2:J:302:MET:SD	2:J:333:GLU:HG3	2.53	0.49
2:K:55:CYS:SG	2:K:65:ILE:HD12	2.52	0.49
2:K:259:VAL:O	2:K:396:ILE:HA	2.12	0.49
2:K:415:LEU:HD22	2:K:415:LEU:C	2.37	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:431:MET:CG	2:K:438:PHE:CE2	2.94	0.49
2:K:432:THR:HB	2:K:437:VAL:HG13	1.95	0.49
2:L:92:GLU:HG3	2:L:203:ARG:HH12	1.78	0.49
2:L:132:TRP:HD1	2:L:202:ARG:CB	2.24	0.49
2:L:415:LEU:HD22	2:L:416:LYS:N	2.27	0.49
1:A:521:SER:C	1:A:522:LEU:HD23	2.38	0.49
1:A:652:THR:HG21	1:A:703:GLY:CA	2.41	0.49
1:A:961:PRO:C	1:A:963:VAL:H	2.20	0.49
1:A:1001:VAL:O	1:A:1002:SER:C	2.55	0.49
1:B:211:TYR:CD1	1:B:212:SER:N	2.80	0.49
1:B:1417:VAL:HG12	1:B:1419:HIS:N	2.26	0.49
1:B:1460:LYS:O	1:B:1462:MET:N	2.44	0.49
1:C:643:ASN:HB3	1:C:665:THR:HG21	1.93	0.49
1:C:938:PRO:O	1:C:939:GLY:C	2.53	0.49
1:C:1441:ALA:O	1:C:1444:LEU:HB2	2.13	0.49
1:D:251:MET:HE3	1:D:533:LEU:HD11	1.94	0.49
1:D:253:HIS:CE1	1:D:254:PRO:CD	2.88	0.49
1:D:260:MET:O	1:D:263:LEU:CB	2.55	0.49
1:D:562:MET:HE2	1:D:605:ILE:HD11	1.94	0.49
1:D:1190:VAL:C	1:D:1192:PRO:HD3	2.38	0.49
1:D:1401:LEU:HD11	1:D:1405:ILE:HB	1.94	0.49
1:E:116:ILE:HD13	1:E:190:THR:HG21	1.94	0.49
1:E:359:THR:CG2	1:E:378:GLN:HA	2.42	0.49
1:E:970:PRO:O	1:E:970:PRO:CG	2.60	0.49
1:E:1112:THR:O	2:L:112:GLN:NE2	2.40	0.49
1:F:40:THR:O	1:F:40:THR:CG2	2.57	0.49
1:F:85:ALA:O	1:F:86:GLN:C	2.53	0.49
1:F:594:GLU:O	1:F:597:VAL:N	2.45	0.49
1:F:792:GLY:O	1:F:793:GLY:C	2.51	0.49
1:F:1077:ARG:HG2	1:F:1078:ASP:N	2.26	0.49
2:G:71:LEU:HA	2:G:74:GLU:HG2	1.95	0.49
2:G:92:GLU:HG3	2:G:203:ARG:HH12	1.78	0.49
2:H:55:CYS:SG	2:H:65:ILE:HD12	2.52	0.49
2:H:302:MET:SD	2:H:333:GLU:HG3	2.53	0.49
2:H:320:TYR:HD2	2:H:346:TRP:CG	2.31	0.49
2:H:430:LYS:HG2	2:H:459:ASP:OD1	2.12	0.49
2:I:212:VAL:CG2	2:I:214:TYR:CE1	2.95	0.49
2:I:383:ILE:HD13	2:I:383:ILE:C	2.37	0.49
2:J:65:ILE:N	2:J:66:PRO:HD2	2.28	0.49
2:J:257:ASN:O	2:J:394:LEU:HD23	2.12	0.49
2:J:426:ASP:HB3	2:J:429:THR:OG1	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:43:GLN:OE1	2:K:119:THR:HG23	2.12	0.49
2:K:383:ILE:HD13	2:K:383:ILE:C	2.37	0.49
2:L:415:LEU:HD22	2:L:415:LEU:C	2.37	0.49
2:L:416:LYS:HZ2	2:L:416:LYS:HB2	1.77	0.49
2:L:479:ALA:O	2:L:480:ALA:HB3	2.12	0.49
1:A:228:LEU:HD22	1:A:278:ASP:HA	1.94	0.49
1:A:359:THR:CG2	1:A:378:GLN:HA	2.42	0.49
1:B:479:MET:HG3	1:B:1104:MET:SD	2.52	0.49
1:B:673:GLU:O	1:B:674:ALA:C	2.54	0.49
1:B:1400:SER:O	1:B:1401:LEU:C	2.56	0.49
1:C:110:VAL:O	1:C:112:ILE:HG23	2.13	0.49
1:C:484:PRO:HG3	1:C:823:MET:HG3	1.94	0.49
1:D:182:MET:CE	1:D:217:PRO:C	2.62	0.49
1:D:417:ASP:HA	1:D:420:VAL:HG12	1.94	0.49
1:D:505:GLN:NE2	1:D:1001:VAL:N	2.55	0.49
1:E:191:PHE:CE1	1:E:192:TYR:CE1	3.01	0.49
1:E:508:ASN:HB2	1:E:509:PRO:HD2	1.95	0.49
1:E:782:ARG:HG2	2:L:53:PRO:HD2	0.55	0.49
1:E:1068:ARG:NE	1:E:1089:GLU:OE1	2.39	0.49
1:E:1132:PRO:O	1:E:1133:GLU:C	2.52	0.49
1:E:1318:ASN:H	1:E:1318:ASN:HD22	1.60	0.49
1:E:1368:MET:HB3	1:E:1387:MET:HG3	1.94	0.49
1:E:1417:VAL:CG1	1:E:1418:GLY:N	2.73	0.49
1:E:1441:ALA:O	1:E:1444:LEU:HB2	2.13	0.49
1:F:430:VAL:HG13	1:F:554:GLU:CA	2.37	0.49
1:F:850:ARG:HD2	1:F:878:ILE:HD12	1.93	0.49
1:F:1163:GLY:O	1:F:1165:THR:N	2.45	0.49
1:F:1424:LEU:O	1:F:1425:LYS:C	2.53	0.49
2:G:71:LEU:HD21	2:G:76:ARG:C	2.37	0.49
2:G:212:VAL:CG2	2:G:214:TYR:CE1	2.95	0.49
2:G:259:VAL:O	2:G:396:ILE:HA	2.12	0.49
2:H:68:TRP:CD1	2:H:69:LEU:N	2.80	0.49
2:H:182:MET:HE1	2:H:216:PRO:HG3	1.94	0.49
2:H:226:LEU:N	2:H:227:PRO:HD2	2.28	0.49
2:H:469:LYS:HZ2	2:H:476:VAL:HB	1.77	0.49
2:I:43:GLN:OE1	2:I:119:THR:HG23	2.12	0.49
2:I:257:ASN:O	2:I:394:LEU:HD23	2.12	0.49
2:I:419:ARG:HD3	2:I:419:ARG:C	2.37	0.49
2:J:331:GLN:HA	2:J:334:VAL:HG22	1.93	0.49
2:K:161:ALA:CB	2:K:454:ILE:HG12	2.40	0.49
2:K:302:MET:SD	2:K:333:GLU:HG3	2.53	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:43:GLN:OE1	2:L:119:THR:HG23	2.12	0.49
2:L:134:GLN:HB3	2:L:136:TRP:NE1	2.26	0.49
2:L:181:ARG:HD3	2:L:182:MET:O	2.13	0.49
2:L:200:VAL:O	2:L:204:VAL:HG12	2.12	0.49
2:L:226:LEU:N	2:L:227:PRO:HD2	2.28	0.49
2:L:415:LEU:HD23	2:L:432:THR:HG23	1.94	0.49
1:A:90:ARG:HB3	1:A:107:TRP:CH2	2.48	0.49
1:A:484:PRO:HG3	1:A:823:MET:HG3	1.94	0.49
1:A:508:ASN:HB2	1:A:509:PRO:HD2	1.94	0.49
1:A:560:ASP:C	1:A:562:MET:N	2.70	0.49
1:A:636:LEU:C	1:A:638:THR:N	2.68	0.49
1:A:1440:ALA:O	1:A:1443:ILE:N	2.42	0.49
1:B:417:ASP:HA	1:B:420:VAL:HG12	1.95	0.49
1:B:869:GLY:O	1:B:870:THR:C	2.52	0.49
1:B:1190:VAL:C	1:B:1192:PRO:HD3	2.38	0.49
1:B:1435:THR:HG23	1:B:1437:SER:CB	2.42	0.49
1:C:521:SER:OG	1:C:522:LEU:N	2.45	0.49
1:C:949:VAL:C	1:C:950:THR:O	2.50	0.49
1:C:961:PRO:C	1:C:963:VAL:H	2.20	0.49
1:C:1244:THR:O	1:C:1245:ARG:C	2.51	0.49
1:D:175:ARG:HH11	1:D:175:ARG:CG	2.19	0.49
1:D:355:TYR:C	1:D:355:TYR:HD1	2.20	0.49
1:D:476:ILE:HA	1:D:1034:PRO:HA	1.94	0.49
1:D:782:ARG:CB	2:H:56:GLN:NE2	2.41	0.49
1:D:782:ARG:CA	2:H:52:VAL:C	2.84	0.49
1:D:810:PHE:O	1:D:813:TYR:HB3	2.13	0.49
1:D:885:GLY:C	1:D:887:GLY:N	2.68	0.49
1:D:1400:SER:C	1:D:1402:PRO:HD2	2.38	0.49
1:E:15:ARG:HG3	1:E:19:GLU:HG3	1.94	0.49
1:E:110:VAL:HG12	1:E:111:PRO:N	2.28	0.49
1:E:369:THR:C	1:E:371:MET:H	2.20	0.49
1:E:1111:ASN:OD1	1:E:1119:VAL:CG2	2.37	0.49
1:F:419:TRP:O	1:F:540:THR:CG2	2.59	0.49
1:F:561:TYR:C	1:F:561:TYR:CD1	2.90	0.49
1:F:562:MET:HE2	1:F:605:ILE:HD11	1.94	0.49
1:F:1184:ASN:O	1:F:1186:ARG:N	2.46	0.49
2:G:277:VAL:CG1	2:G:279:ALA:H	2.26	0.49
2:G:434:MET:CB	2:G:437:VAL:HG12	2.42	0.49
2:H:200:VAL:O	2:H:204:VAL:HG12	2.12	0.49
2:I:92:GLU:HG3	2:I:203:ARG:HH12	1.78	0.49
2:I:174:HIS:HD2	2:I:176:TYR:CD1	2.30	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:302:MET:SD	2:I:333:GLU:HG3	2.53	0.49
2:I:320:TYR:HD2	2:I:346:TRP:CG	2.31	0.49
2:I:353:PHE:CE1	2:I:370:GLY:CA	2.96	0.49
2:J:68:TRP:CD1	2:J:69:LEU:N	2.80	0.49
2:J:226:LEU:N	2:J:227:PRO:HD2	2.28	0.49
2:K:181:ARG:HD3	2:K:182:MET:O	2.13	0.49
2:K:200:VAL:O	2:K:204:VAL:HG12	2.12	0.49
2:K:212:VAL:CG2	2:K:214:TYR:CE1	2.95	0.49
2:K:249:LYS:O	2:K:250:ALA:HB3	2.11	0.49
2:K:257:ASN:O	2:K:394:LEU:HD23	2.12	0.49
2:K:345:ILE:HG12	2:K:345:ILE:O	2.13	0.49
2:K:353:PHE:CE1	2:K:370:GLY:CA	2.96	0.49
2:K:415:LEU:HD23	2:K:432:THR:HG23	1.94	0.49
2:K:449:LEU:CD2	2:K:452:TRP:CG	2.93	0.49
2:K:469:LYS:HD2	2:K:476:VAL:CB	2.39	0.49
2:L:55:CYS:SG	2:L:65:ILE:HD12	2.52	0.49
2:L:290:LYS:HD3	2:L:393:ASP:CG	2.38	0.49
2:L:324:ARG:HA	2:L:346:TRP:CZ2	2.46	0.49
2:L:449:LEU:CD2	2:L:451:VAL:HG13	2.27	0.49
1:A:110:VAL:O	1:A:112:ILE:HG23	2.13	0.49
1:A:369:THR:C	1:A:371:MET:H	2.20	0.49
1:A:454:PHE:CD2	1:A:648:GLU:HA	2.47	0.49
1:A:466:HIS:HB3	1:A:467:PRO:HD3	1.94	0.49
1:A:661:VAL:O	1:A:661:VAL:CG1	2.61	0.49
1:A:917:VAL:HG13	1:A:922:LEU:HD21	1.95	0.49
1:A:1366:GLU:HG2	1:A:1367:TYR:CE2	2.47	0.49
1:B:580:GLU:O	1:B:581:ALA:C	2.56	0.49
1:B:901:ASP:OD2	1:F:1228:LYS:HD3	2.13	0.49
1:B:1260:GLN:O	1:B:1261:PRO:C	2.56	0.49
1:C:80:ARG:O	1:C:80:ARG:HG3	2.12	0.49
1:C:218:THR:HG22	1:C:218:THR:O	2.08	0.49
1:C:780:ARG:HB3	2:K:51:GLY:O	2.11	0.49
1:C:860:MET:HE1	1:C:893:ARG:NH1	2.27	0.49
1:C:1393:TYR:C	1:C:1394:VAL:HG23	2.35	0.49
1:C:1395:TYR:CD2	1:C:1443:ILE:HD13	2.48	0.49
1:C:1447:TRP:HA	1:C:1447:TRP:CE3	2.48	0.49
1:D:634:SER:O	1:D:635:ASN:C	2.52	0.49
1:D:1080:VAL:HG12	1:D:1084:MET:HE3	1.90	0.49
1:D:1211:LEU:HG	1:D:1215:ILE:HD11	1.94	0.49
1:D:1427:LEU:O	1:D:1430:GLU:N	2.46	0.49
1:E:110:VAL:O	1:E:112:ILE:HG23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:213:THR:O	1:E:214:ASN:ND2	2.43	0.49
1:E:550:LEU:HD13	1:E:555:PHE:HA	1.95	0.49
1:E:965:LEU:HA	1:E:965:LEU:HD23	1.33	0.49
1:E:1052:VAL:O	1:E:1053:HIS:C	2.51	0.49
1:E:1184:ASN:O	1:E:1187:LEU:N	2.44	0.49
1:E:1396:ASP:OD1	1:E:1396:ASP:O	2.30	0.49
1:F:1057:THR:HG22	1:F:1058:LEU:N	2.22	0.49
2:G:250:ALA:CB	2:G:251:PRO:HD2	2.35	0.49
2:G:415:LEU:HD22	2:G:415:LEU:C	2.37	0.49
2:G:432:THR:HB	2:G:437:VAL:HG13	1.95	0.49
2:H:174:HIS:CD2	2:H:176:TYR:CZ	3.01	0.49
2:H:277:VAL:CG1	2:H:279:ALA:H	2.26	0.49
2:H:353:PHE:CE1	2:H:370:GLY:CA	2.96	0.49
2:H:367:ILE:HD12	2:H:369:LEU:HD11	1.93	0.49
2:I:468:ALA:O	2:I:471:LYS:HB2	2.12	0.49
2:J:55:CYS:SG	2:J:65:ILE:HD12	2.52	0.49
2:J:174:HIS:CD2	2:J:176:TYR:CZ	3.01	0.49
2:J:249:LYS:O	2:J:250:ALA:HB3	2.11	0.49
2:J:259:VAL:O	2:J:396:ILE:HA	2.12	0.49
2:J:345:ILE:O	2:J:345:ILE:HG12	2.13	0.49
2:L:71:LEU:HA	2:L:74:GLU:HG2	1.95	0.49
2:L:93:ILE:HD11	2:L:195:LEU:CD2	2.30	0.49
2:L:418:THR:CB	2:L:424:LEU:HD11	2.23	0.49
1:A:62:ILE:O	1:A:62:ILE:CG2	2.60	0.49
1:A:235:ASN:ND2	1:A:236:THR:HB	2.27	0.49
1:A:353:MET:O	1:A:353:MET:HG3	2.11	0.49
1:A:780:ARG:HB3	2:J:52:VAL:N	2.26	0.49
1:A:1054:GLN:O	1:A:1057:THR:HB	2.12	0.49
1:A:1458:VAL:HG13	1:A:1459:PRO:CD	2.42	0.49
1:B:537:GLU:HG3	1:B:538:THR:N	2.08	0.49
1:B:978:GLU:O	1:B:981:ALA:HB3	2.13	0.49
1:B:1003:ARG:HG3	1:B:1004:SER:N	2.24	0.49
1:B:1164:ARG:HH11	1:B:1166:ASP:CG	2.21	0.49
1:C:225:PHE:HB3	1:C:278:ASP:OD2	2.12	0.49
1:C:250:ARG:NH2	1:C:639:PHE:CE1	2.79	0.49
1:C:1236:ARG:C	1:C:1238:THR:N	2.67	0.49
1:D:211:TYR:HD1	1:D:212:SER:N	2.08	0.49
1:D:452:GLN:CG	1:D:764:THR:HG22	2.43	0.49
1:D:1164:ARG:HH11	1:D:1166:ASP:CG	2.21	0.49
1:E:51:PRO:HG3	1:E:200:PHE:CD2	2.48	0.49
1:E:463:LEU:HA	1:E:463:LEU:HD23	1.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:960:THR:CG2	1:E:963:VAL:HG21	2.42	0.49
1:E:1230:GLN:HE21	1:E:1267:ARG:HD3	1.76	0.49
1:F:110:VAL:CG2	1:F:130:GLN:HG3	2.43	0.49
1:F:269:VAL:HG23	1:F:270:GLY:N	2.21	0.49
1:F:389:GLU:CA	1:F:403:ASP:OD2	2.61	0.49
1:F:582:LEU:CB	1:F:755:GLN:HE21	2.26	0.49
1:F:1347:ALA:O	1:F:1348:VAL:C	2.54	0.49
2:G:450:VAL:HG13	2:G:451:VAL:N	2.28	0.49
2:H:290:LYS:HD3	2:H:393:ASP:CG	2.38	0.49
2:H:432:THR:HB	2:H:437:VAL:HG13	1.95	0.49
2:I:32:TYR:CE2	2:I:194:LYS:HB3	2.46	0.49
2:I:68:TRP:CD1	2:I:69:LEU:N	2.80	0.49
2:I:71:LEU:HD21	2:I:76:ARG:C	2.37	0.49
2:I:134:GLN:HB3	2:I:136:TRP:NE1	2.27	0.49
2:I:165:GLU:CB	2:I:169:LYS:HZ3	2.25	0.49
2:I:197:LYS:HG2	2:I:273:LEU:CD1	2.43	0.49
2:I:449:LEU:HD11	2:I:451:VAL:CG1	2.31	0.49
2:J:212:VAL:CG2	2:J:214:TYR:CE1	2.95	0.49
2:J:320:TYR:HD2	2:J:346:TRP:CG	2.31	0.49
2:J:349:ALA:HB3	2:J:350:PRO:CD	2.39	0.49
2:K:174:HIS:HD2	2:K:176:TYR:CD1	2.30	0.49
2:K:174:HIS:CD2	2:K:176:TYR:CZ	3.01	0.49
2:K:197:LYS:HG2	2:K:273:LEU:CD1	2.43	0.49
2:L:249:LYS:CE	2:L:258:ILE:HD13	2.42	0.49
2:L:320:TYR:HD2	2:L:346:TRP:CG	2.31	0.49
2:L:430:LYS:HG2	2:L:459:ASP:OD1	2.12	0.49
1:A:15:ARG:O	1:A:16:SER:C	2.53	0.48
1:A:227:MET:CE	1:A:282:GLU:CG	2.88	0.48
1:A:452:GLN:NE2	1:A:764:THR:HG23	1.99	0.48
1:A:482:ASP:OD1	1:A:788:HIS:HB3	2.13	0.48
1:A:731:SER:HB2	1:A:747:SER:HB2	1.94	0.48
1:A:909:GLN:NE2	1:A:929:GLU:OE1	2.46	0.48
1:A:1369:THR:HG22	1:A:1369:THR:O	2.13	0.48
1:B:110:VAL:CG2	1:B:130:GLN:HG3	2.43	0.48
1:B:244:MET:HE2	1:B:244:MET:CA	2.43	0.48
1:B:720:ARG:C	1:B:722:GLY:N	2.69	0.48
1:B:757:LYS:O	1:B:758:VAL:C	2.53	0.48
1:B:1163:GLY:O	1:B:1165:THR:N	2.45	0.48
1:B:1347:ALA:O	1:B:1348:VAL:C	2.54	0.48
1:B:1400:SER:C	1:B:1402:PRO:HD2	2.38	0.48
1:D:558:MET:C	1:D:560:ASP:N	2.69	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1435:THR:HG23	1:D:1437:SER:CB	2.42	0.48
1:E:15:ARG:O	1:E:16:SER:C	2.53	0.48
1:E:207:TYR:N	1:E:207:TYR:HD1	2.08	0.48
1:E:428:GLU:O	1:E:429:LEU:C	2.52	0.48
1:E:466:HIS:HB3	1:E:467:PRO:HD3	1.94	0.48
1:E:513:SER:HB2	1:E:520:MET:CE	2.43	0.48
1:E:746:ILE:HG23	1:E:1182:ASP:N	2.21	0.48
1:E:909:GLN:NE2	1:E:929:GLU:OE1	2.46	0.48
1:E:1359:GLY:O	1:E:1360:CYS:CB	2.58	0.48
1:F:30:HIS:HD2	1:F:31:ARG:N	2.10	0.48
1:F:1207:VAL:HG13	1:F:1208:PRO:HD2	1.93	0.48
2:G:174:HIS:CD2	2:G:176:TYR:CZ	3.01	0.48
2:G:226:LEU:N	2:G:227:PRO:HD2	2.28	0.48
2:J:290:LYS:HD3	2:J:393:ASP:CG	2.38	0.48
2:K:165:GLU:CB	2:K:169:LYS:HZ3	2.23	0.48
2:K:430:LYS:HG2	2:K:459:ASP:OD1	2.13	0.48
1:A:430:VAL:HG22	1:A:557:ALA:HB3	1.95	0.48
1:A:491:LYS:HZ1	1:A:785:GLY:HA3	1.76	0.48
1:A:672:GLN:O	1:A:673:GLU:C	2.52	0.48
1:A:705:LEU:HD23	1:A:705:LEU:N	2.26	0.48
1:A:1281:VAL:HA	1:A:1301:SER:O	2.13	0.48
1:A:1396:ASP:OD1	1:A:1396:ASP:O	2.30	0.48
1:B:251:MET:HE3	1:B:533:LEU:HD11	1.95	0.48
1:B:430:VAL:HG22	1:B:557:ALA:HB3	1.94	0.48
1:B:728:ILE:CD1	1:B:1047:MET:CE	2.74	0.48
1:B:739:PHE:O	1:B:740:PRO:C	2.55	0.48
1:B:810:PHE:O	1:B:813:TYR:HB3	2.13	0.48
1:B:1310:THR:HG22	1:B:1311:THR:HG22	1.95	0.48
1:C:482:ASP:OD1	1:C:788:HIS:HB3	2.13	0.48
1:C:979:ASP:O	1:C:980:LEU:C	2.55	0.48
1:D:254:PRO:O	1:D:257:GLY:N	2.37	0.48
1:D:1059:ASN:O	1:D:1060:ARG:HB2	2.12	0.48
1:E:97:ILE:HD13	1:E:133:VAL:HG21	1.95	0.48
1:E:225:PHE:HB3	1:E:278:ASP:OD2	2.12	0.48
1:E:342:VAL:HG11	1:E:390:MET:CE	2.37	0.48
1:E:510:PRO:HD2	1:E:970:PRO:CB	2.34	0.48
1:E:672:GLN:CG	1:E:693:MET:CE	2.79	0.48
1:E:1030:THR:HG21	1:E:1033:SER:HB3	1.95	0.48
1:E:1108:CYS:SG	6:E:2476:F3S:S4	2.94	0.48
1:E:1141:PHE:O	1:E:1142:LEU:C	2.55	0.48
1:F:211:TYR:HD1	1:F:212:SER:N	2.08	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:354:ARG:NH2	1:F:1292:ALA:O	2.46	0.48
2:G:141:THR:HB	2:G:142:PRO:CD	2.40	0.48
2:G:181:ARG:HD3	2:G:182:MET:O	2.13	0.48
2:G:418:THR:CB	2:G:424:LEU:HD11	2.23	0.48
2:I:181:ARG:HD3	2:I:182:MET:O	2.13	0.48
2:I:290:LYS:HD3	2:I:393:ASP:CG	2.38	0.48
2:I:450:VAL:HG13	2:I:451:VAL:N	2.28	0.48
2:J:324:ARG:HB3	2:J:324:ARG:NH1	2.28	0.48
2:K:320:TYR:HD2	2:K:346:TRP:CG	2.31	0.48
2:K:450:VAL:HG13	2:K:451:VAL:N	2.28	0.48
1:A:309:THR:CG2	1:A:314:LYS:HG3	2.42	0.48
1:A:734:LEU:HD12	1:A:738:HIS:CD2	2.41	0.48
1:A:1007:GLY:N	1:A:1051:GLU:OE2	2.41	0.48
1:A:1057:THR:HG22	1:A:1058:LEU:N	2.28	0.48
1:A:1112:THR:O	2:J:112:GLN:NE2	2.40	0.48
1:A:1184:ASN:O	1:A:1186:ARG:N	2.46	0.48
1:A:1318:ASN:H	1:A:1318:ASN:HD22	1.60	0.48
1:A:1441:ALA:O	1:A:1444:LEU:HB2	2.13	0.48
1:B:389:GLU:CA	1:B:403:ASP:OD2	2.61	0.48
1:B:419:TRP:O	1:B:540:THR:OG1	2.27	0.48
1:B:1047:MET:O	1:B:1048:GLY:C	2.53	0.48
1:C:538:THR:O	1:C:538:THR:HG23	2.13	0.48
1:C:633:ARG:NH2	1:C:737:GLU:O	2.39	0.48
1:C:858:MET:HA	4:C:2474:FMN:N5	2.29	0.48
1:C:1001:VAL:O	1:C:1002:SER:C	2.55	0.48
1:C:1230:GLN:HE21	1:C:1267:ARG:HD3	1.76	0.48
1:C:1396:ASP:OD1	1:C:1399:ASP:N	2.47	0.48
1:D:244:MET:HE2	1:D:244:MET:CA	2.43	0.48
1:D:1278:ALA:O	1:D:1279:PHE:HB2	2.12	0.48
1:E:442:MET:CE	1:E:447:LEU:HA	2.41	0.48
1:E:602:THR:C	1:E:640:THR:HG22	2.38	0.48
1:F:419:TRP:O	1:F:540:THR:OG1	2.27	0.48
1:F:452:GLN:CG	1:F:764:THR:HG22	2.43	0.48
1:F:479:MET:HG3	1:F:1104:MET:SD	2.52	0.48
1:F:701:ASP:C	1:F:703:GLY:N	2.69	0.48
1:F:797:THR:HG23	1:F:812:LYS:HE2	1.94	0.48
1:F:1164:ARG:HH11	1:F:1166:ASP:CG	2.21	0.48
1:F:1211:LEU:HG	1:F:1215:ILE:HD11	1.94	0.48
1:F:1407:ASP:O	1:F:1409:SER:N	2.47	0.48
2:G:174:HIS:HD2	2:G:176:TYR:CD1	2.30	0.48
2:G:249:LYS:O	2:G:250:ALA:HB3	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:257:ASN:O	2:G:394:LEU:HD23	2.12	0.48
2:G:290:LYS:HD3	2:G:393:ASP:CG	2.38	0.48
2:H:64:ASN:CG	2:H:67:ASP:HB2	2.39	0.48
2:H:65:ILE:N	2:H:66:PRO:HD2	2.28	0.48
2:H:181:ARG:HD3	2:H:182:MET:O	2.13	0.48
2:H:432:THR:HB	2:H:437:VAL:O	2.13	0.48
2:H:449:LEU:CD2	2:H:452:TRP:CG	2.93	0.48
2:I:146:LEU:HD22	2:I:146:LEU:N	2.26	0.48
2:I:415:LEU:HD23	2:I:432:THR:HG23	1.94	0.48
2:I:430:LYS:HG2	2:I:459:ASP:OD1	2.13	0.48
2:J:419:ARG:C	2:J:419:ARG:HD3	2.37	0.48
2:J:450:VAL:HG13	2:J:451:VAL:N	2.28	0.48
2:K:226:LEU:N	2:K:227:PRO:HD2	2.28	0.48
2:L:174:HIS:HD2	2:L:176:TYR:CD1	2.30	0.48
2:L:257:ASN:O	2:L:394:LEU:HD23	2.12	0.48
2:L:277:VAL:CG1	2:L:279:ALA:H	2.26	0.48
1:A:87:GLU:O	1:A:90:ARG:N	2.47	0.48
1:A:428:GLU:O	1:A:429:LEU:C	2.52	0.48
1:A:1326:THR:HG22	1:A:1329:TYR:HB2	1.95	0.48
1:A:1395:TYR:CD2	1:A:1443:ILE:HD13	2.48	0.48
1:B:30:HIS:HD2	1:B:31:ARG:N	2.10	0.48
1:B:85:ALA:O	1:B:86:GLN:C	2.53	0.48
1:B:443:ASP:O	1:B:446:GLU:N	2.40	0.48
1:B:465:LEU:HD21	1:B:675:ILE:HG13	1.95	0.48
1:B:582:LEU:CB	1:B:755:GLN:HE21	2.26	0.48
1:B:700:ILE:C	1:B:703:GLY:H	2.22	0.48
1:B:1008:THR:O	1:B:1011:ALA:HB3	2.14	0.48
1:B:1059:ASN:O	1:B:1060:ARG:HB2	2.12	0.48
1:C:1281:VAL:HA	1:C:1301:SER:O	2.13	0.48
1:C:1396:ASP:OD1	1:C:1396:ASP:O	2.30	0.48
1:D:354:ARG:NH2	1:D:1292:ALA:O	2.46	0.48
1:D:582:LEU:CB	1:D:755:GLN:HE21	2.26	0.48
1:D:594:GLU:O	1:D:597:VAL:N	2.45	0.48
1:D:731:SER:HA	1:D:747:SER:CB	2.43	0.48
1:D:840:VAL:O	1:D:841:ASP:C	2.57	0.48
1:D:1131:THR:CG2	1:D:1133:GLU:H	2.27	0.48
1:D:1401:LEU:C	1:D:1401:LEU:CD1	2.55	0.48
1:E:54:PHE:HA	1:E:199:ARG:HD2	1.94	0.48
1:E:430:VAL:HG22	1:E:557:ALA:HB3	1.95	0.48
1:E:552:THR:HG22	1:E:552:THR:O	2.14	0.48
1:E:560:ASP:C	1:E:562:MET:N	2.70	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:633:ARG:NH2	1:E:737:GLU:O	2.38	0.48
1:E:643:ASN:HB3	1:E:665:THR:HG21	1.93	0.48
1:E:858:MET:HA	4:E:2474:FMN:N5	2.29	0.48
1:E:1038:ILE:O	1:E:1038:ILE:CG2	2.61	0.48
1:E:1228:LYS:C	1:E:1229:MET:HG2	2.39	0.48
1:E:1245:ARG:O	1:E:1246:LEU:C	2.55	0.48
1:E:1281:VAL:HA	1:E:1301:SER:O	2.13	0.48
1:E:1326:THR:HG22	1:E:1329:TYR:HB2	1.95	0.48
1:E:1359:GLY:O	1:E:1360:CYS:HB3	2.12	0.48
1:F:1310:THR:HG22	1:F:1311:THR:HG22	1.95	0.48
2:G:64:ASN:CG	2:G:67:ASP:HB2	2.38	0.48
2:G:186:LEU:HD23	2:G:195:LEU:CG	2.43	0.48
2:G:383:ILE:HD13	2:G:383:ILE:C	2.37	0.48
2:J:327:MET:HG2	2:J:334:VAL:HG11	1.96	0.48
2:J:345:ILE:HD13	2:J:345:ILE:N	2.17	0.48
2:K:54:PHE:CB	2:K:107:ASN:HB3	2.39	0.48
2:K:64:ASN:CG	2:K:67:ASP:HB2	2.38	0.48
2:K:137:VAL:HG13	2:K:209:ASP:CG	2.39	0.48
2:K:327:MET:HG2	2:K:334:VAL:HG11	1.96	0.48
2:K:469:LYS:HZ3	2:K:476:VAL:CA	2.26	0.48
2:L:418:THR:HG1	2:L:420:TRP:HD1	1.60	0.48
2:L:432:THR:HB	2:L:437:VAL:HG13	1.95	0.48
1:A:54:PHE:HA	1:A:199:ARG:HD2	1.94	0.48
1:A:80:ARG:O	1:A:80:ARG:HG3	2.12	0.48
1:A:550:LEU:HD13	1:A:555:PHE:HA	1.95	0.48
1:A:631:LEU:N	1:A:631:LEU:HD23	2.29	0.48
1:A:1447:TRP:HA	1:A:1447:TRP:CE3	2.48	0.48
1:B:290:THR:HG22	1:B:293:MET:H	1.78	0.48
1:B:347:ARG:HB2	1:B:347:ARG:HH11	1.79	0.48
1:B:354:ARG:NH2	1:B:1292:ALA:O	2.46	0.48
1:B:558:MET:C	1:B:560:ASP:N	2.69	0.48
1:B:702:ASP:O	1:B:703:GLY:C	2.55	0.48
1:B:820:ARG:HB3	1:B:821:PRO:HD3	1.94	0.48
1:B:856:PRO:HB3	4:B:2474:FMN:H3'	1.95	0.48
1:B:1184:ASN:C	1:B:1186:ARG:N	2.71	0.48
1:C:54:PHE:HA	1:C:199:ARG:HD2	1.94	0.48
1:C:1349:ARG:CG	1:C:1349:ARG:NH1	2.75	0.48
1:D:242:ASN:HA	1:D:245:LYS:HG3	1.95	0.48
1:D:978:GLU:O	1:D:981:ALA:HB3	2.13	0.48
1:D:1260:GLN:O	1:D:1261:PRO:C	2.56	0.48
1:E:522:LEU:CG	1:E:705:LEU:HD21	2.38	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1395:TYR:CD2	1:E:1443:ILE:HD13	2.48	0.48
1:F:196:LEU:HA	1:F:196:LEU:HD23	1.55	0.48
1:F:251:MET:HE3	1:F:533:LEU:HD11	1.95	0.48
1:F:290:THR:HG22	1:F:293:MET:H	1.78	0.48
1:F:746:ILE:CG2	1:F:1182:ASP:CB	2.86	0.48
1:F:860:MET:HB2	1:F:860:MET:HE2	1.39	0.48
1:F:1318:ASN:H	1:F:1318:ASN:ND2	2.01	0.48
1:F:1400:SER:C	1:F:1402:PRO:HD2	2.38	0.48
1:F:1401:LEU:HD11	1:F:1405:ILE:HB	1.94	0.48
2:G:124:GLU:O	2:G:127:ILE:HG23	2.14	0.48
2:G:320:TYR:HD2	2:G:346:TRP:CG	2.31	0.48
2:G:331:GLN:HA	2:G:334:VAL:HG22	1.93	0.48
2:H:324:ARG:HB3	2:H:324:ARG:NH1	2.28	0.48
2:I:237:LEU:C	2:I:237:LEU:HD22	2.39	0.48
2:I:264:TYR:HD2	2:I:265:LEU:HD23	1.79	0.48
2:J:415:LEU:HD23	2:J:432:THR:HG23	1.94	0.48
2:K:65:ILE:N	2:K:66:PRO:HD2	2.28	0.48
2:K:68:TRP:CD1	2:K:69:LEU:N	2.80	0.48
2:K:92:GLU:HG3	2:K:203:ARG:HH12	1.78	0.48
2:K:186:LEU:HD23	2:K:195:LEU:CG	2.43	0.48
2:K:237:LEU:C	2:K:237:LEU:HD22	2.39	0.48
2:K:277:VAL:CG1	2:K:279:ALA:H	2.26	0.48
2:L:65:ILE:N	2:L:66:PRO:HD2	2.28	0.48
2:L:91:PRO:HD2	2:L:203:ARG:HH21	1.79	0.48
2:L:212:VAL:CG2	2:L:214:TYR:CE1	2.95	0.48
2:L:264:TYR:HD2	2:L:265:LEU:HD23	1.79	0.48
2:L:345:ILE:HG12	2:L:345:ILE:O	2.13	0.48
2:L:353:PHE:CE1	2:L:370:GLY:CA	2.96	0.48
2:L:434:MET:CB	2:L:437:VAL:HG12	2.42	0.48
1:A:253:HIS:H	1:A:260:MET:HE1	1.79	0.48
1:A:602:THR:C	1:A:640:THR:HG22	2.38	0.48
1:A:858:MET:HA	4:A:2474:FMN:N5	2.29	0.48
1:A:1101:GLY:O	1:A:1102:CYS:C	2.57	0.48
1:B:428:GLU:O	1:B:429:LEU:C	2.51	0.48
1:B:698:LYS:O	1:B:698:LYS:HG2	2.13	0.48
1:B:1131:THR:CG2	1:B:1133:GLU:H	2.27	0.48
1:C:87:GLU:O	1:C:90:ARG:N	2.47	0.48
1:C:191:PHE:CE1	1:C:192:TYR:CE1	3.01	0.48
1:C:213:THR:O	1:C:214:ASN:ND2	2.43	0.48
1:C:246:ALA:C	1:C:248:GLU:N	2.70	0.48
1:C:466:HIS:HB3	1:C:467:PRO:HD3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:736:ALA:O	1:C:737:GLU:C	2.53	0.48
1:C:917:VAL:HG13	1:C:922:LEU:HD21	1.95	0.48
1:C:960:THR:CG2	1:C:963:VAL:HG21	2.42	0.48
1:D:107:TRP:H	1:D:107:TRP:HD1	1.60	0.48
1:D:208:HIS:CD2	1:D:208:HIS:C	2.92	0.48
1:D:290:THR:HG22	1:D:293:MET:H	1.78	0.48
1:D:550:LEU:HB3	1:D:554:GLU:HG3	1.96	0.48
1:D:763:ALA:C	1:D:765:ALA:N	2.72	0.48
1:D:1163:GLY:O	1:D:1165:THR:N	2.45	0.48
1:E:52:GLN:NE2	1:E:71:LEU:HB2	2.27	0.48
1:E:266:VAL:CG1	1:E:279:THR:HG23	2.33	0.48
1:E:521:SER:C	1:E:522:LEU:HD23	2.38	0.48
1:E:538:THR:O	1:E:538:THR:HG23	2.13	0.48
1:E:672:GLN:O	1:E:673:GLU:C	2.52	0.48
1:E:860:MET:HE1	1:E:893:ARG:NH1	2.27	0.48
1:E:1396:ASP:OD1	1:E:1399:ASP:N	2.47	0.48
1:E:1417:VAL:HG12	1:E:1418:GLY:N	2.27	0.48
1:F:443:ASP:O	1:F:444:LYS:C	2.54	0.48
1:F:465:LEU:HD21	1:F:675:ILE:HG13	1.95	0.48
1:F:580:GLU:O	1:F:581:ALA:C	2.56	0.48
1:F:727:ALA:HB3	1:F:744:SER:HB2	1.95	0.48
1:F:1059:ASN:O	1:F:1060:ARG:HB2	2.12	0.48
1:F:1070:ASP:OD1	1:F:1070:ASP:C	2.55	0.48
2:G:237:LEU:HD22	2:G:237:LEU:C	2.39	0.48
2:G:257:ASN:HD21	2:G:394:LEU:CA	2.27	0.48
2:G:432:THR:HB	2:G:437:VAL:O	2.13	0.48
2:I:124:GLU:O	2:I:127:ILE:HG23	2.14	0.48
2:I:327:MET:HG2	2:I:334:VAL:HG11	1.96	0.48
2:J:64:ASN:CG	2:J:67:ASP:HB2	2.38	0.48
2:J:146:LEU:HD22	2:J:146:LEU:N	2.26	0.48
2:J:175:VAL:HG11	2:J:214:TYR:CG	2.47	0.48
2:K:153:ILE:HG12	2:K:220:VAL:HG22	1.96	0.48
2:K:330:SER:O	2:K:334:VAL:HG22	2.14	0.48
2:L:71:LEU:HD21	2:L:76:ARG:C	2.37	0.48
2:L:150:VAL:HG13	2:L:173:VAL:CA	2.38	0.48
2:L:302:MET:SD	2:L:333:GLU:HG3	2.53	0.48
1:A:15:ARG:HG3	1:A:19:GLU:HG3	1.94	0.48
1:A:74:GLY:HA2	1:A:172:LEU:HD13	1.96	0.48
1:A:509:PRO:O	1:A:509:PRO:HG2	2.14	0.48
1:A:1038:ILE:O	1:A:1038:ILE:CG2	2.61	0.48
1:A:1052:VAL:O	1:A:1053:HIS:C	2.51	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1425:LYS:CE	1:A:1447:TRP:CD1	2.97	0.48
1:A:1447:TRP:O	1:A:1451:VAL:HG23	2.14	0.48
1:B:953:ILE:O	1:B:955:ARG:N	2.47	0.48
1:B:1407:ASP:O	1:B:1409:SER:N	2.47	0.48
1:B:1427:LEU:O	1:B:1428:ILE:C	2.56	0.48
1:C:3:VAL:HG22	1:C:231:ASN:HB2	1.96	0.48
1:C:345:MET:HG2	1:C:349:GLY:HA2	1.95	0.48
1:C:428:GLU:O	1:C:429:LEU:C	2.52	0.48
1:C:911:ALA:O	1:C:912:SER:C	2.57	0.48
1:C:1038:ILE:O	1:C:1038:ILE:CG2	2.61	0.48
1:C:1243:GLY:O	1:C:1246:LEU:N	2.47	0.48
1:D:302:ALA:HB2	1:D:347:ARG:HH11	1.76	0.48
1:D:389:GLU:CA	1:D:403:ASP:OD2	2.61	0.48
1:D:515:ARG:NE	1:D:1367:TYR:HE1	2.09	0.48
1:D:547:SER:C	1:D:549:VAL:H	2.21	0.48
1:D:582:LEU:HB2	1:D:755:GLN:HE21	1.79	0.48
1:D:727:ALA:HB3	1:D:744:SER:HB2	1.95	0.48
1:D:1070:ASP:OD1	1:D:1070:ASP:C	2.55	0.48
1:D:1424:LEU:HD23	1:D:1424:LEU:C	2.39	0.48
1:E:1212:ASP:HB3	1:E:1245:ARG:HB3	1.96	0.48
1:F:476:ILE:HA	1:F:1034:PRO:HA	1.94	0.48
1:F:621:ILE:HG13	1:F:658:LEU:HD12	1.93	0.48
1:F:777:GLY:C	2:I:52:VAL:HG11	2.39	0.48
1:F:868:HIS:HB3	1:F:869:GLY:H	1.57	0.48
1:F:869:GLY:O	1:F:870:THR:C	2.52	0.48
1:F:953:ILE:O	1:F:955:ARG:N	2.47	0.48
1:F:1131:THR:CG2	1:F:1133:GLU:H	2.27	0.48
1:F:1184:ASN:C	1:F:1186:ARG:N	2.71	0.48
1:F:1190:VAL:C	1:F:1192:PRO:HD3	2.38	0.48
1:F:1236:ARG:C	1:F:1238:THR:N	2.70	0.48
1:F:1440:ALA:O	1:F:1441:ALA:C	2.53	0.48
2:G:43:GLN:OE1	2:G:119:THR:HG23	2.12	0.48
2:G:91:PRO:HD2	2:G:203:ARG:HH21	1.79	0.48
2:H:145:GLU:O	2:H:145:GLU:HG2	2.12	0.48
2:H:175:VAL:HG11	2:H:214:TYR:CG	2.47	0.48
2:I:174:HIS:CD2	2:I:176:TYR:CZ	3.01	0.48
2:I:277:VAL:CG1	2:I:279:ALA:H	2.26	0.48
2:J:92:GLU:HG3	2:J:203:ARG:HH12	1.78	0.48
2:J:137:VAL:HG13	2:J:209:ASP:CG	2.39	0.48
2:J:353:PHE:CE1	2:J:370:GLY:CA	2.96	0.48
2:J:432:THR:HB	2:J:437:VAL:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:124:GLU:O	2:L:127:ILE:HG23	2.14	0.48
2:L:250:ALA:CB	2:L:251:PRO:HD2	2.35	0.48
2:L:257:ASN:HD21	2:L:394:LEU:CA	2.27	0.48
2:L:330:SER:O	2:L:334:VAL:HG22	2.14	0.48
1:A:97:ILE:HD13	1:A:133:VAL:HG21	1.95	0.48
1:A:191:PHE:CE1	1:A:192:TYR:CE1	3.01	0.48
1:A:329:GLY:O	1:A:330:PRO:C	2.56	0.48
1:A:369:THR:CG2	1:A:370:GLY:N	2.76	0.48
1:A:633:ARG:NH2	1:A:737:GLU:O	2.38	0.48
1:A:1460:LYS:O	1:A:1461:GLU:C	2.55	0.48
1:B:731:SER:HA	1:B:747:SER:CB	2.43	0.48
1:B:1153:LEU:HA	1:B:1153:LEU:HD23	1.42	0.48
1:B:1325:ASN:O	1:B:1326:THR:HB	2.14	0.48
1:B:1424:LEU:C	1:B:1424:LEU:HD23	2.39	0.48
1:B:1427:LEU:O	1:B:1430:GLU:N	2.46	0.48
1:C:664:THR:HA	1:C:720:ARG:HE	1.77	0.48
1:C:1184:ASN:O	1:C:1186:ARG:N	2.46	0.48
1:C:1359:GLY:O	1:C:1360:CYS:CB	2.58	0.48
1:C:1369:THR:HG22	1:C:1369:THR:O	2.14	0.48
1:C:1425:LYS:CE	1:C:1447:TRP:CD1	2.97	0.48
1:D:110:VAL:CG2	1:D:130:GLN:HG3	2.43	0.48
1:D:739:PHE:O	1:D:740:PRO:C	2.55	0.48
1:D:869:GLY:O	1:D:870:THR:C	2.52	0.48
1:E:80:ARG:O	1:E:80:ARG:HG3	2.12	0.48
1:E:345:MET:HG2	1:E:349:GLY:HA2	1.95	0.48
1:E:1101:GLY:O	1:E:1102:CYS:C	2.57	0.48
1:E:1425:LYS:CE	1:E:1447:TRP:CD1	2.97	0.48
1:F:105:TYR:N	1:F:105:TYR:CD1	2.81	0.48
1:F:472:GLY:O	1:F:473:LYS:HG3	2.14	0.48
1:F:513:SER:HA	1:F:520:MET:HE2	1.96	0.48
1:F:757:LYS:O	1:F:758:VAL:C	2.53	0.48
1:F:1325:ASN:O	1:F:1326:THR:HB	2.14	0.48
1:F:1396:ASP:OD1	1:F:1396:ASP:O	2.32	0.48
2:G:110:ILE:HG13	2:G:117:ALA:CA	2.35	0.48
2:G:153:ILE:HG12	2:G:220:VAL:HG22	1.96	0.48
2:G:182:MET:HE1	2:G:216:PRO:HG3	1.94	0.48
2:G:324:ARG:HA	2:G:346:TRP:CZ2	2.46	0.48
2:G:327:MET:HG2	2:G:334:VAL:HG11	1.96	0.48
2:G:418:THR:HG1	2:G:420:TRP:HD1	1.62	0.48
2:G:455:ARG:O	2:G:458:ARG:HB2	2.14	0.48
2:H:71:LEU:HA	2:H:74:GLU:HG2	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:237:LEU:C	2:H:237:LEU:HD22	2.39	0.48
2:I:257:ASN:HD21	2:I:394:LEU:CA	2.27	0.48
2:I:324:ARG:NH1	2:I:324:ARG:HB3	2.28	0.48
2:J:71:LEU:HA	2:J:74:GLU:HG2	1.95	0.48
2:J:150:VAL:HG13	2:J:173:VAL:CA	2.38	0.48
2:J:153:ILE:HG12	2:J:220:VAL:HG22	1.96	0.48
2:J:197:LYS:HG2	2:J:273:LEU:CD1	2.43	0.48
2:J:264:TYR:HD2	2:J:265:LEU:HD23	1.79	0.48
2:L:64:ASN:CG	2:L:67:ASP:HB2	2.39	0.48
2:L:77:LEU:HD23	2:L:127:ILE:HD12	1.96	0.48
1:A:345:MET:HG2	1:A:349:GLY:HA2	1.95	0.48
1:A:1212:ASP:HB3	1:A:1245:ARG:HB3	1.96	0.48
1:B:208:HIS:CD2	1:B:208:HIS:C	2.92	0.48
1:B:452:GLN:CG	1:B:764:THR:HG22	2.43	0.48
1:B:792:GLY:O	1:B:793:GLY:C	2.51	0.48
1:B:875:MET:CE	1:B:1139:PHE:HE2	2.25	0.48
1:C:15:ARG:HG3	1:C:19:GLU:HG3	1.94	0.48
1:C:110:VAL:HG12	1:C:111:PRO:N	2.28	0.48
1:C:369:THR:CG2	1:C:370:GLY:N	2.76	0.48
1:C:871:LEU:O	1:C:872:ASN:C	2.52	0.48
1:C:875:MET:CE	1:C:1139:PHE:CZ	2.90	0.48
1:C:1045:TRP:O	1:C:1046:GLU:C	2.54	0.48
1:C:1447:TRP:O	1:C:1451:VAL:HG23	2.14	0.48
1:D:780:ARG:NH2	2:H:54:PHE:CD1	2.78	0.48
1:D:856:PRO:HB3	4:D:2474:FMN:H3'	1.95	0.48
1:E:236:THR:HG22	1:E:328:ASP:N	2.26	0.48
1:E:246:ALA:C	1:E:248:GLU:N	2.70	0.48
1:E:485:ILE:HG12	1:E:488:LEU:HD12	1.95	0.48
1:E:509:PRO:HG2	1:E:509:PRO:O	2.14	0.48
1:E:917:VAL:HG13	1:E:922:LEU:HD21	1.95	0.48
1:E:1184:ASN:O	1:E:1186:ARG:N	2.46	0.48
1:F:208:HIS:CD2	1:F:208:HIS:C	2.92	0.48
1:F:515:ARG:HD3	1:F:1367:TYR:CE1	2.40	0.48
1:F:651:ASP:OD1	1:F:651:ASP:N	2.38	0.48
2:G:241:GLY:CA	2:G:443:ILE:HG23	2.44	0.48
2:H:186:LEU:HD23	2:H:195:LEU:CG	2.43	0.48
2:H:327:MET:HG2	2:H:334:VAL:HG11	1.96	0.48
2:H:455:ARG:O	2:H:458:ARG:HB2	2.14	0.48
2:H:469:LYS:HD2	2:H:476:VAL:CB	2.39	0.48
2:I:137:VAL:HG13	2:I:209:ASP:CG	2.39	0.48
2:I:460:ALA:O	2:I:464:ILE:HD12	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:77:LEU:HD23	2:J:127:ILE:HD12	1.96	0.48
2:J:91:PRO:HD2	2:J:203:ARG:HH22	1.76	0.48
2:J:110:ILE:HG13	2:J:117:ALA:CA	2.35	0.48
2:J:164:GLU:HB2	2:J:207:LEU:HD13	1.96	0.48
2:J:181:ARG:HD2	2:J:182:MET:N	2.29	0.48
2:K:367:ILE:HD12	2:K:369:LEU:HD11	1.93	0.48
2:K:432:THR:HB	2:K:437:VAL:O	2.13	0.48
2:L:148:LEU:CB	2:L:234:VAL:HG23	2.44	0.48
2:L:165:GLU:CB	2:L:169:LYS:HZ3	2.25	0.48
1:A:485:ILE:HG12	1:A:488:LEU:HD12	1.95	0.48
1:A:501:GLN:OE1	1:A:710:LYS:NZ	2.47	0.48
1:A:513:SER:HB2	1:A:520:MET:CE	2.43	0.48
1:A:746:ILE:HG23	1:A:1182:ASP:N	2.21	0.48
1:A:780:ARG:NH2	2:J:109:VAL:HG11	2.29	0.48
1:B:227:MET:HE3	1:B:282:GLU:CA	2.27	0.48
1:B:242:ASN:HA	1:B:245:LYS:HG3	1.95	0.48
1:B:472:GLY:O	1:B:473:LYS:HG3	2.14	0.48
1:B:476:ILE:HA	1:B:1034:PRO:HA	1.94	0.48
1:B:746:ILE:CG2	1:B:1182:ASP:CB	2.86	0.48
1:B:1228:LYS:HD3	1:D:901:ASP:OD2	2.13	0.48
1:C:51:PRO:HG3	1:C:200:PHE:CD2	2.48	0.48
1:C:97:ILE:HD13	1:C:133:VAL:HG21	1.95	0.48
1:C:256:PHE:O	1:C:257:GLY:C	2.56	0.48
1:C:442:MET:CE	1:C:447:LEU:CA	2.92	0.48
1:C:508:ASN:HB2	1:C:509:PRO:HD2	1.94	0.48
1:C:780:ARG:HH21	2:K:54:PHE:HD1	1.60	0.48
1:C:965:LEU:HA	1:C:965:LEU:HD23	1.33	0.48
1:D:452:GLN:HE21	1:D:764:THR:HG23	1.65	0.48
1:D:700:ILE:C	1:D:703:GLY:H	2.22	0.48
1:D:963:VAL:CG1	1:D:964:MET:H	2.25	0.48
1:D:1310:THR:HG22	1:D:1311:THR:HG22	1.95	0.48
1:E:218:THR:CG2	1:E:221:LEU:H	2.27	0.48
1:E:369:THR:CG2	1:E:370:GLY:N	2.76	0.48
1:E:482:ASP:OD1	1:E:788:HIS:HB3	2.13	0.48
1:E:664:THR:HA	1:E:720:ARG:HE	1.77	0.48
1:E:918:THR:HG22	1:E:920:GLU:N	2.26	0.48
1:E:1243:GLY:O	1:E:1246:LEU:N	2.47	0.48
1:F:417:ASP:HA	1:F:420:VAL:HG12	1.95	0.48
1:F:572:THR:CG2	1:F:615:ARG:HB3	2.42	0.48
1:F:582:LEU:HB2	1:F:755:GLN:HE21	1.79	0.48
1:F:739:PHE:O	1:F:740:PRO:C	2.55	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:826:ARG:HD2	1:F:1078:ASP:OD1	2.14	0.48
1:F:1195:ASN:HD22	1:F:1195:ASN:H	1.62	0.48
2:G:68:TRP:CD1	2:G:69:LEU:N	2.80	0.48
2:H:153:ILE:HG12	2:H:220:VAL:HG22	1.96	0.48
2:H:174:HIS:NE2	2:H:176:TYR:CD2	2.82	0.48
2:H:264:TYR:HD2	2:H:265:LEU:HD23	1.79	0.48
2:H:321:ARG:HH11	2:H:322:ARG:CZ	2.27	0.48
2:I:64:ASN:CG	2:I:67:ASP:HB2	2.38	0.48
2:I:330:SER:O	2:I:334:VAL:HG22	2.14	0.48
2:K:71:LEU:HA	2:K:74:GLU:HG2	1.95	0.48
2:K:257:ASN:HD21	2:K:394:LEU:CA	2.27	0.48
2:L:137:VAL:HG13	2:L:209:ASP:CG	2.39	0.48
2:L:164:GLU:HB2	2:L:207:LEU:HD13	1.96	0.48
2:L:174:HIS:CD2	2:L:176:TYR:CZ	3.01	0.48
2:L:327:MET:HG2	2:L:334:VAL:HG11	1.96	0.48
1:A:9:ILE:O	1:A:398:GLY:HA2	2.14	0.47
1:A:286:ARG:HD3	1:A:286:ARG:HA	1.60	0.47
1:A:875:MET:CE	1:A:1139:PHE:CZ	2.90	0.47
1:A:877:ARG:HD3	1:C:1230:GLN:CB	2.34	0.47
1:A:1228:LYS:C	1:A:1229:MET:HG2	2.39	0.47
1:A:1243:GLY:O	1:A:1246:LEU:N	2.47	0.47
1:B:216:PHE:HA	1:B:217:PRO:HD3	1.76	0.47
1:B:235:ASN:HB3	1:B:508:ASN:HD21	1.79	0.47
1:B:582:LEU:HB2	1:B:755:GLN:HE21	1.79	0.47
1:B:693:MET:HE3	1:B:693:MET:CA	2.39	0.47
1:B:848:ALA:O	1:B:849:ILE:C	2.54	0.47
1:B:1401:LEU:O	1:B:1401:LEU:CD1	2.38	0.47
1:C:329:GLY:O	1:C:330:PRO:C	2.56	0.47
1:C:522:LEU:CG	1:C:705:LEU:HD21	2.38	0.47
1:C:896:PRO:HB2	1:E:1226:GLY:C	2.39	0.47
1:C:1117:VAL:HG12	1:C:1118:CYS:N	2.29	0.47
1:C:1414:ARG:NH2	1:C:1455:TRP:CZ2	2.82	0.47
1:D:173:SER:HG	1:D:176:SER:H	1.61	0.47
1:D:211:TYR:O	1:D:212:SER:CB	2.58	0.47
1:D:465:LEU:HD21	1:D:675:ILE:HG13	1.95	0.47
1:D:704:LEU:O	1:D:707:ILE:N	2.47	0.47
1:D:953:ILE:O	1:D:955:ARG:N	2.47	0.47
1:D:1396:ASP:OD1	1:D:1396:ASP:O	2.32	0.47
1:E:9:ILE:O	1:E:398:GLY:HA2	2.14	0.47
1:E:218:THR:HG22	1:E:218:THR:O	2.08	0.47
1:E:253:HIS:H	1:E:260:MET:HE1	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:498:PHE:CD1	1:E:498:PHE:N	2.82	0.47
1:E:661:VAL:O	1:E:661:VAL:CG1	2.61	0.47
1:E:990:ILE:HG23	1:E:991:ASN:N	2.29	0.47
1:E:1113:CYS:C	1:E:1115:VAL:N	2.71	0.47
1:F:856:PRO:HB3	4:F:2474:FMN:H3'	1.95	0.47
1:F:1068:ARG:NH2	1:F:1089:GLU:OE1	2.46	0.47
1:F:1105:VAL:HG22	1:F:1105:VAL:O	2.14	0.47
2:G:324:ARG:HB3	2:G:324:ARG:NH1	2.28	0.47
2:G:330:SER:O	2:G:334:VAL:HG22	2.14	0.47
2:G:353:PHE:CE1	2:G:370:GLY:CA	2.96	0.47
2:H:181:ARG:HD2	2:H:182:MET:N	2.29	0.47
2:H:330:SER:O	2:H:334:VAL:HG22	2.14	0.47
2:H:423:LEU:CD2	2:H:423:LEU:H	2.25	0.47
2:I:71:LEU:HA	2:I:74:GLU:HG2	1.95	0.47
2:I:148:LEU:CB	2:I:234:VAL:HG23	2.44	0.47
2:I:150:VAL:HG13	2:I:173:VAL:CA	2.38	0.47
2:I:153:ILE:HG12	2:I:220:VAL:HG22	1.96	0.47
2:I:175:VAL:HG11	2:I:214:TYR:CG	2.47	0.47
2:I:241:GLY:CA	2:I:443:ILE:HG23	2.44	0.47
2:J:144:ARG:HH11	2:J:169:LYS:CA	2.27	0.47
2:J:302:MET:HE1	2:J:334:VAL:CA	2.44	0.47
2:J:423:LEU:CD2	2:J:423:LEU:H	2.25	0.47
2:K:141:THR:HB	2:K:142:PRO:CD	2.40	0.47
2:K:174:HIS:NE2	2:K:176:TYR:CD2	2.82	0.47
2:K:290:LYS:HD3	2:K:393:ASP:CG	2.38	0.47
2:L:237:LEU:C	2:L:237:LEU:HD22	2.39	0.47
2:L:450:VAL:HG13	2:L:451:VAL:N	2.28	0.47
2:L:460:ALA:O	2:L:464:ILE:HD12	2.14	0.47
1:A:214:ASN:O	1:A:1015:LYS:CE	2.53	0.47
1:A:429:LEU:O	1:A:429:LEU:HG	2.14	0.47
1:A:498:PHE:CD1	1:A:498:PHE:N	2.82	0.47
1:A:823:MET:HB2	1:A:823:MET:HE3	1.61	0.47
1:A:911:ALA:O	1:A:912:SER:C	2.57	0.47
1:A:979:ASP:O	1:A:980:LEU:C	2.55	0.47
1:A:1030:THR:HG21	1:A:1033:SER:HB3	1.95	0.47
1:A:1326:THR:HG22	1:A:1326:THR:O	2.15	0.47
1:A:1414:ARG:NH2	1:A:1455:TRP:CZ2	2.82	0.47
1:B:162:GLU:CB	1:B:164:ILE:HD12	2.44	0.47
1:B:814:SER:O	1:B:818:ASN:N	2.47	0.47
1:B:908:LYS:HB3	1:B:921:TYR:CZ	2.49	0.47
1:B:1170:GLN:HB2	1:B:1183:LEU:HD12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1195:ASN:HD22	1:B:1195:ASN:H	1.62	0.47
1:B:1201:LEU:H	1:B:1201:LEU:HD22	1.79	0.47
1:C:429:LEU:O	1:C:429:LEU:HG	2.14	0.47
1:C:485:ILE:HG12	1:C:488:LEU:HD12	1.95	0.47
1:C:552:THR:HG22	1:C:552:THR:O	2.14	0.47
1:C:909:GLN:NE2	1:C:929:GLU:OE1	2.46	0.47
1:C:970:PRO:O	1:C:970:PRO:CG	2.60	0.47
1:C:1326:THR:HG22	1:C:1329:TYR:HB2	1.95	0.47
1:D:189:THR:O	1:D:189:THR:HG23	2.15	0.47
1:D:252:GLU:HA	1:D:260:MET:HE3	1.95	0.47
1:D:1407:ASP:O	1:D:1409:SER:N	2.47	0.47
1:E:87:GLU:O	1:E:90:ARG:N	2.47	0.47
1:E:231:ASN:HB3	1:E:332:ALA:HB3	1.96	0.47
1:E:417:ASP:O	1:E:418:LYS:C	2.52	0.47
1:F:252:GLU:HA	1:F:260:MET:HE3	1.95	0.47
1:F:698:LYS:HG2	1:F:698:LYS:O	2.13	0.47
1:F:912:SER:CB	1:F:968:PRO:O	2.63	0.47
1:F:1008:THR:O	1:F:1011:ALA:HB3	2.14	0.47
2:G:77:LEU:HD23	2:G:127:ILE:HD12	1.96	0.47
2:G:243:TYR:CZ	2:G:405:ASP:HB3	2.49	0.47
2:G:348:ALA:HB1	2:G:373:ASP:HA	1.97	0.47
2:H:77:LEU:HD23	2:H:127:ILE:HD12	1.96	0.47
2:H:91:PRO:HD2	2:H:203:ARG:HH22	1.76	0.47
2:H:92:GLU:HG3	2:H:203:ARG:HH12	1.78	0.47
2:H:153:ILE:HG12	2:H:220:VAL:HG11	1.97	0.47
2:H:161:ALA:CB	2:H:454:ILE:HG12	2.40	0.47
2:H:345:ILE:HG12	2:H:345:ILE:O	2.13	0.47
2:H:415:LEU:HD23	2:H:432:THR:HG23	1.94	0.47
2:H:450:VAL:HG13	2:H:451:VAL:N	2.28	0.47
2:I:164:GLU:HB2	2:I:207:LEU:HD13	1.96	0.47
2:I:181:ARG:HD2	2:I:182:MET:N	2.29	0.47
2:I:345:ILE:HG12	2:I:345:ILE:O	2.13	0.47
2:J:124:GLU:O	2:J:127:ILE:HG23	2.14	0.47
2:J:243:TYR:CZ	2:J:405:ASP:HB3	2.49	0.47
2:J:321:ARG:HH11	2:J:322:ARG:CZ	2.27	0.47
2:K:241:GLY:CA	2:K:443:ILE:HG23	2.44	0.47
2:K:243:TYR:CZ	2:K:405:ASP:HB3	2.49	0.47
2:K:321:ARG:HH11	2:K:322:ARG:CZ	2.27	0.47
2:L:68:TRP:CD1	2:L:69:LEU:N	2.80	0.47
2:L:197:LYS:HG2	2:L:273:LEU:CD1	2.43	0.47
2:L:324:ARG:NH1	2:L:324:ARG:HB3	2.28	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:136:ASN:OD1	1:A:136:ASN:N	2.47	0.47
1:A:189:THR:CG2	1:A:190:THR:N	2.63	0.47
1:A:218:THR:CG2	1:A:221:LEU:H	2.27	0.47
1:A:442:MET:CE	1:A:447:LEU:CA	2.92	0.47
1:A:877:ARG:CD	1:C:1230:GLN:HB2	2.33	0.47
1:A:896:PRO:HB2	1:C:1226:GLY:C	2.39	0.47
1:B:419:TRP:O	1:B:540:THR:CG2	2.59	0.47
1:B:533:LEU:HD23	1:B:533:LEU:HA	1.42	0.47
1:B:1105:VAL:HG22	1:B:1105:VAL:O	2.14	0.47
1:B:1396:ASP:OD1	1:B:1396:ASP:O	2.32	0.47
1:C:9:ILE:O	1:C:398:GLY:HA2	2.14	0.47
1:C:1030:THR:HG21	1:C:1033:SER:HB3	1.95	0.47
1:C:1057:THR:HG22	1:C:1058:LEU:N	2.28	0.47
1:C:1141:PHE:O	1:C:1142:LEU:C	2.55	0.47
1:C:1228:LYS:C	1:C:1229:MET:HG2	2.39	0.47
1:C:1276:LEU:HD12	1:C:1276:LEU:C	2.36	0.47
4:C:2474:FMN:HM83	4:C:2474:FMN:HM71	1.69	0.47
1:D:235:ASN:HB3	1:D:508:ASN:HD21	1.79	0.47
1:D:426:LEU:HD23	1:D:543:LEU:HB3	1.93	0.47
1:D:702:ASP:O	1:D:703:GLY:C	2.55	0.47
1:D:826:ARG:HD2	1:D:1078:ASP:OD1	2.14	0.47
1:D:908:LYS:HB3	1:D:921:TYR:CZ	2.49	0.47
1:D:985:TYR:OH	1:D:1208:PRO:O	2.26	0.47
1:D:1184:ASN:N	1:D:1185:PRO:HD2	2.30	0.47
1:E:47:HIS:HE1	1:E:176:SER:CB	2.25	0.47
1:E:47:HIS:HB3	1:E:206:ILE:HB	1.96	0.47
1:E:74:GLY:HA2	1:E:172:LEU:HD13	1.96	0.47
1:E:227:MET:HE2	1:E:282:GLU:HG3	1.93	0.47
1:E:370:GLY:CA	1:E:1237:ASN:HB3	2.45	0.47
1:E:1326:THR:HG22	1:E:1326:THR:O	2.15	0.47
1:F:235:ASN:HB3	1:F:508:ASN:HD21	1.79	0.47
1:F:244:MET:O	1:F:245:LYS:C	2.57	0.47
1:F:589:ILE:O	1:F:593:THR:OG1	2.28	0.47
1:F:731:SER:HA	1:F:747:SER:CB	2.43	0.47
2:G:302:MET:HE1	2:G:334:VAL:CA	2.44	0.47
2:G:365:VAL:HG22	2:G:366:ARG:CG	2.40	0.47
2:G:394:LEU:HD22	2:G:395:VAL:N	2.30	0.47
2:H:144:ARG:HH11	2:H:169:LYS:CA	2.27	0.47
2:H:365:VAL:HG22	2:H:366:ARG:CG	2.40	0.47
2:I:174:HIS:NE2	2:I:176:TYR:CD2	2.82	0.47
2:I:331:GLN:OE1	2:I:332:ARG:HD3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:432:THR:HB	2:I:437:VAL:HG13	1.95	0.47
2:J:91:PRO:HD2	2:J:203:ARG:HH21	1.79	0.47
2:J:181:ARG:HD3	2:J:182:MET:O	2.13	0.47
2:J:257:ASN:HD21	2:J:394:LEU:CA	2.27	0.47
2:K:302:MET:HE1	2:K:334:VAL:CA	2.44	0.47
2:K:416:LYS:NZ	2:K:433:ASN:HB2	2.29	0.47
2:L:141:THR:HB	2:L:142:PRO:CD	2.40	0.47
1:A:31:ARG:HD2	1:A:368:GLU:OE2	2.15	0.47
1:A:110:VAL:HG12	1:A:111:PRO:N	2.28	0.47
1:A:251:MET:HB2	1:A:533:LEU:CD1	2.44	0.47
1:A:826:ARG:NH1	1:A:826:ARG:CG	2.57	0.47
1:A:1412:PHE:HD2	1:A:1455:TRP:CZ3	2.33	0.47
1:B:107:TRP:H	1:B:107:TRP:HD1	1.60	0.47
1:B:336:THR:C	1:B:337:ASP:O	2.50	0.47
1:B:558:MET:C	1:B:560:ASP:H	2.23	0.47
1:B:609:GLU:C	1:B:611:MET:H	2.22	0.47
1:B:727:ALA:HB3	1:B:744:SER:HB2	1.95	0.47
1:B:763:ALA:C	1:B:765:ALA:N	2.72	0.47
1:B:912:SER:CB	1:B:968:PRO:O	2.62	0.47
1:B:1424:LEU:HD23	1:B:1428:ILE:HG13	1.96	0.47
1:C:337:ASP:O	1:C:338:GLY:C	2.56	0.47
1:C:513:SER:HB2	1:C:520:MET:CE	2.43	0.47
1:C:550:LEU:HD13	1:C:555:PHE:HA	1.95	0.47
1:C:896:PRO:CB	1:E:1226:GLY:CA	2.92	0.47
1:C:1428:ILE:HG22	1:C:1428:ILE:O	2.14	0.47
1:D:244:MET:O	1:D:245:LYS:C	2.57	0.47
1:D:615:ARG:HG2	1:D:615:ARG:NH1	2.30	0.47
1:D:698:LYS:HG2	1:D:698:LYS:O	2.13	0.47
1:D:777:GLY:C	2:H:52:VAL:HG11	2.39	0.47
1:D:878:ILE:HG21	1:D:1136:VAL:HG13	1.97	0.47
1:D:1184:ASN:CB	1:D:1185:PRO:HD3	2.30	0.47
1:D:1210:THR:CG2	1:D:1211:LEU:H	2.07	0.47
1:D:1325:ASN:O	1:D:1326:THR:HB	2.14	0.47
1:E:78:LEU:HD12	1:E:129:GLU:HG3	1.97	0.47
1:E:454:PHE:CD2	1:E:648:GLU:CA	2.97	0.47
1:E:782:ARG:CB	2:L:52:VAL:HA	2.26	0.47
1:E:869:GLY:O	1:E:870:THR:C	2.54	0.47
1:E:1369:THR:HG22	1:E:1369:THR:O	2.13	0.47
1:E:1414:ARG:NH2	1:E:1455:TRP:CZ2	2.82	0.47
1:E:1447:TRP:HA	1:E:1447:TRP:CE3	2.48	0.47
1:F:117:ILE:HG23	1:F:117:ILE:HD13	1.35	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:700:ILE:C	1:F:703:GLY:H	2.22	0.47
1:F:1170:GLN:HB2	1:F:1183:LEU:HD12	1.95	0.47
2:G:316:VAL:CG1	2:G:342:VAL:HG22	2.45	0.47
2:G:321:ARG:HH11	2:G:322:ARG:CZ	2.27	0.47
2:H:164:GLU:HB2	2:H:207:LEU:HD13	1.96	0.47
2:H:243:TYR:CZ	2:H:405:ASP:HB3	2.49	0.47
2:H:302:MET:HE1	2:H:334:VAL:CA	2.44	0.47
2:H:350:PRO:CB	2:H:372:ALA:HB1	2.45	0.47
2:I:186:LEU:HD23	2:I:195:LEU:CG	2.43	0.47
2:J:241:GLY:CA	2:J:443:ILE:HG23	2.44	0.47
2:J:277:VAL:CG1	2:J:279:ALA:H	2.26	0.47
2:J:432:THR:HB	2:J:437:VAL:HG13	1.95	0.47
2:K:264:TYR:HD2	2:K:265:LEU:HD23	1.79	0.47
2:K:394:LEU:HD22	2:K:395:VAL:N	2.30	0.47
2:L:394:LEU:HD22	2:L:395:VAL:N	2.30	0.47
1:A:78:LEU:HD12	1:A:129:GLU:HG3	1.97	0.47
1:A:246:ALA:C	1:A:248:GLU:N	2.70	0.47
1:A:526:LEU:CD1	1:A:526:LEU:H	2.17	0.47
1:A:526:LEU:HB3	1:A:641:SER:HB3	1.97	0.47
1:A:1245:ARG:O	1:A:1246:LEU:C	2.55	0.47
1:A:1276:LEU:HD12	1:A:1276:LEU:C	2.36	0.47
1:A:1369:THR:CG2	1:A:1369:THR:O	2.63	0.47
1:A:1396:ASP:OD1	1:A:1399:ASP:N	2.47	0.47
1:A:1401:LEU:O	1:A:1401:LEU:CD1	2.53	0.47
1:B:525:ARG:HG3	1:B:544:GLN:HG3	1.97	0.47
1:B:571:ALA:C	1:B:618:ILE:HD12	2.40	0.47
1:B:777:GLY:C	2:G:52:VAL:HG11	2.39	0.47
1:B:878:ILE:HD13	1:B:878:ILE:HG21	1.66	0.47
1:C:253:HIS:H	1:C:260:MET:HE1	1.79	0.47
1:C:297:MET:HE2	1:C:297:MET:HB3	1.53	0.47
1:C:454:PHE:CD2	1:C:648:GLU:CA	2.98	0.47
1:C:510:PRO:HD2	1:C:970:PRO:CB	2.34	0.47
1:C:918:THR:HG22	1:C:920:GLU:N	2.26	0.47
1:C:1412:PHE:HD2	1:C:1455:TRP:CZ3	2.33	0.47
1:D:37:ASP:OD1	1:D:39:LYS:N	2.34	0.47
1:D:59:VAL:HG22	1:D:105:TYR:HD2	1.78	0.47
1:D:211:TYR:CD1	1:D:212:SER:N	2.80	0.47
1:D:1008:THR:HG22	1:D:1009:ILE:H	1.70	0.47
1:D:1008:THR:O	1:D:1011:ALA:HB3	2.14	0.47
1:D:1077:ARG:CG	1:D:1078:ASP:N	2.77	0.47
1:D:1170:GLN:HB2	1:D:1183:LEU:HD12	1.95	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1184:ASN:C	1:D:1186:ARG:N	2.71	0.47
1:D:1195:ASN:H	1:D:1195:ASN:HD22	1.62	0.47
1:D:1228:LYS:HD3	1:F:901:ASP:OD2	2.13	0.47
1:D:1417:VAL:HG12	1:D:1419:HIS:N	2.26	0.47
1:E:526:LEU:HB3	1:E:641:SER:HB3	1.97	0.47
1:F:189:THR:O	1:F:189:THR:HG23	2.14	0.47
1:F:728:ILE:CD1	1:F:1047:MET:CE	2.74	0.47
1:F:756:LYS:O	1:F:757:LYS:C	2.58	0.47
1:F:908:LYS:HB3	1:F:921:TYR:CZ	2.49	0.47
2:G:148:LEU:CB	2:G:234:VAL:HG23	2.44	0.47
2:G:264:TYR:HD2	2:G:265:LEU:HD23	1.79	0.47
2:G:349:ALA:HB3	2:G:350:PRO:CD	2.39	0.47
2:H:257:ASN:HD21	2:H:394:LEU:CA	2.27	0.47
2:H:297:GLY:HA2	2:H:320:TYR:HE1	1.80	0.47
2:I:144:ARG:HH11	2:I:169:LYS:CA	2.27	0.47
2:I:394:LEU:HD22	2:I:395:VAL:N	2.30	0.47
2:J:174:HIS:NE2	2:J:176:TYR:CD2	2.82	0.47
2:J:297:GLY:HA2	2:J:320:TYR:HE1	1.80	0.47
2:K:64:ASN:C	2:K:66:PRO:HD2	2.40	0.47
2:K:324:ARG:HB3	2:K:324:ARG:NH1	2.28	0.47
2:L:63:ASN:HD21	2:L:83:VAL:HG12	1.79	0.47
2:L:153:ILE:HG12	2:L:220:VAL:HG22	1.96	0.47
2:L:166:LEU:O	2:L:169:LYS:HB2	2.15	0.47
1:A:68:ASP:OD1	1:A:68:ASP:N	2.44	0.47
1:A:266:VAL:CG1	1:A:279:THR:HG23	2.33	0.47
1:A:348:ASN:HB2	1:A:350:LEU:HG	1.96	0.47
1:A:468:MET:HG2	1:A:699:ALA:HB1	1.97	0.47
1:A:643:ASN:HB3	1:A:665:THR:HG21	1.93	0.47
1:A:990:ILE:HG23	1:A:991:ASN:N	2.29	0.47
1:A:1424:LEU:HD21	1:A:1428:ILE:HD11	1.97	0.47
1:B:150:ILE:HG21	1:B:259:HIS:CG	2.50	0.47
1:B:248:GLU:C	1:B:250:ARG:N	2.73	0.47
1:B:560:ASP:O	1:B:561:TYR:C	2.58	0.47
1:B:615:ARG:HG2	1:B:615:ARG:NH1	2.30	0.47
1:B:1128:PHE:CZ	1:B:1130:GLY:CA	2.93	0.47
1:C:218:THR:CG2	1:C:221:LEU:H	2.27	0.47
1:C:280:VAL:O	1:C:281:PHE:C	2.58	0.47
1:C:456:LEU:HA	1:C:456:LEU:HD23	1.65	0.47
1:C:583:ARG:CZ	1:C:587:ARG:HH12	2.28	0.47
1:C:896:PRO:HB3	1:E:1226:GLY:C	2.36	0.47
1:C:935:GLY:HA3	1:C:1025:GLY:O	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:1158:LEU:HD12	1:C:1158:LEU:HA	1.62	0.47
1:C:1366:GLU:HG2	1:C:1367:TYR:CE2	2.47	0.47
1:D:513:SER:HA	1:D:520:MET:HE2	1.96	0.47
1:D:820:ARG:HB3	1:D:821:PRO:HD3	1.94	0.47
1:D:1113:CYS:C	1:D:1115:VAL:N	2.69	0.47
1:D:1424:LEU:HD23	1:D:1428:ILE:HG13	1.96	0.47
1:E:31:ARG:HD2	1:E:368:GLU:OE2	2.15	0.47
1:E:446:GLU:O	1:E:449:ARG:N	2.48	0.47
1:F:139:VAL:HG12	1:F:143:GLN:HB2	1.97	0.47
1:F:162:GLU:CB	1:F:164:ILE:HD12	2.44	0.47
1:F:244:MET:HE2	1:F:244:MET:CA	2.43	0.47
1:F:547:SER:C	1:F:549:VAL:H	2.21	0.47
1:F:1010:ALA:HB2	1:F:1052:VAL:HG22	1.97	0.47
2:G:64:ASN:C	2:G:66:PRO:HD2	2.40	0.47
2:G:164:GLU:HB2	2:G:207:LEU:HD13	1.96	0.47
2:G:174:HIS:NE2	2:G:176:TYR:CD2	2.82	0.47
2:G:345:ILE:HG12	2:G:345:ILE:O	2.13	0.47
2:H:137:VAL:HG13	2:H:209:ASP:CG	2.39	0.47
2:H:197:LYS:HG2	2:H:273:LEU:CD1	2.43	0.47
2:I:243:TYR:CZ	2:I:405:ASP:HB3	2.49	0.47
2:I:455:ARG:O	2:I:458:ARG:HB2	2.14	0.47
2:J:153:ILE:HG12	2:J:220:VAL:HG11	1.97	0.47
2:J:186:LEU:HD23	2:J:195:LEU:CG	2.43	0.47
2:J:237:LEU:HD22	2:J:237:LEU:C	2.39	0.47
2:J:348:ALA:HB1	2:J:373:ASP:HA	1.97	0.47
2:J:455:ARG:O	2:J:458:ARG:HB2	2.14	0.47
2:K:54:PHE:HB3	2:K:107:ASN:CB	2.36	0.47
2:K:480:ALA:O	2:K:481:GLU:HB3	2.14	0.47
2:L:241:GLY:CA	2:L:443:ILE:HG23	2.44	0.47
2:L:348:ALA:HB1	2:L:373:ASP:HA	1.96	0.47
1:A:292:PRO:O	1:A:293:MET:C	2.55	0.47
1:A:386:GLY:N	1:A:389:GLU:OE2	2.48	0.47
1:A:446:GLU:O	1:A:449:ARG:N	2.48	0.47
1:A:454:PHE:CD2	1:A:648:GLU:CA	2.98	0.47
1:A:559:ARG:NH1	1:A:568:GLU:OE2	2.48	0.47
1:A:841:ASP:OD1	1:A:841:ASP:N	2.44	0.47
1:A:869:GLY:O	1:A:870:THR:C	2.54	0.47
1:A:1047:MET:O	1:A:1048:GLY:C	2.56	0.47
1:A:1149:ILE:O	1:A:1149:ILE:HG22	2.12	0.47
1:A:1159:ASN:C	1:A:1161:VAL:H	2.23	0.47
1:A:1393:TYR:C	1:A:1394:VAL:HG23	2.34	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1412:PHE:HD2	1:A:1455:TRP:CE3	2.33	0.47
1:A:1428:ILE:O	1:A:1428:ILE:HG22	2.14	0.47
1:A:1430:GLU:O	1:A:1431:HIS:C	2.58	0.47
1:B:189:THR:O	1:B:189:THR:HG23	2.15	0.47
1:B:477:GLY:O	1:B:478:SER:HB3	2.15	0.47
1:B:621:ILE:HG12	1:B:657:VAL:HG11	1.97	0.47
1:B:632:ILE:HG23	1:B:632:ILE:HD12	1.66	0.47
1:B:689:LEU:HA	1:B:689:LEU:HD12	0.98	0.47
1:B:878:ILE:HG21	1:B:1136:VAL:HG13	1.96	0.47
1:B:900:GLY:HA2	1:F:1226:GLY:O	2.15	0.47
1:B:1068:ARG:NH2	1:B:1089:GLU:OE1	2.46	0.47
1:B:1077:ARG:CG	1:B:1078:ASP:N	2.77	0.47
1:B:1131:THR:O	1:B:1132:PRO:C	2.58	0.47
1:C:52:GLN:NE2	1:C:71:LEU:CB	2.78	0.47
1:C:281:PHE:CZ	1:C:335:MET:HG2	2.50	0.47
1:C:348:ASN:HB2	1:C:350:LEU:HG	1.96	0.47
1:C:446:GLU:O	1:C:449:ARG:N	2.48	0.47
1:C:463:LEU:HD23	1:C:463:LEU:HA	1.48	0.47
1:C:602:THR:C	1:C:640:THR:HG22	2.38	0.47
1:C:631:LEU:HD23	1:C:631:LEU:N	2.29	0.47
1:C:990:ILE:HG23	1:C:991:ASN:N	2.29	0.47
1:C:1159:ASN:C	1:C:1161:VAL:H	2.23	0.47
1:C:1212:ASP:HB3	1:C:1245:ARG:HB3	1.96	0.47
1:C:1326:THR:HG22	1:C:1326:THR:O	2.15	0.47
1:C:1369:THR:CG2	1:C:1369:THR:O	2.63	0.47
1:C:1412:PHE:HD2	1:C:1455:TRP:CE3	2.33	0.47
1:D:336:THR:C	1:D:337:ASP:O	2.50	0.47
1:D:402:ARG:O	1:D:403:ASP:C	2.51	0.47
1:D:515:ARG:HD3	1:D:1367:TYR:CE1	2.40	0.47
1:D:520:MET:HA	1:D:714:SER:O	2.15	0.47
1:D:558:MET:C	1:D:560:ASP:H	2.23	0.47
1:D:560:ASP:O	1:D:561:TYR:C	2.58	0.47
1:D:756:LYS:O	1:D:757:LYS:C	2.58	0.47
1:D:814:SER:O	1:D:818:ASN:N	2.47	0.47
1:D:1438:ARG:CZ	2:I:376:GLY:C	2.85	0.47
1:E:111:PRO:C	1:E:112:ILE:HG23	2.40	0.47
1:E:242:ASN:H	1:E:242:ASN:HD22	1.61	0.47
1:E:248:GLU:O	1:E:249:THR:C	2.56	0.47
1:E:280:VAL:O	1:E:281:PHE:C	2.58	0.47
1:E:281:PHE:CZ	1:E:335:MET:HG2	2.50	0.47
1:E:442:MET:CE	1:E:447:LEU:CA	2.92	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:468:MET:HG2	1:E:699:ALA:HB1	1.97	0.47
1:E:515:ARG:H	1:E:515:ARG:HG3	1.52	0.47
1:E:572:THR:HG22	1:E:615:ARG:NE	2.30	0.47
1:E:805:ASP:O	1:E:805:ASP:OD1	2.33	0.47
1:E:826:ARG:HH11	1:E:826:ARG:CG	1.97	0.47
1:E:1045:TRP:O	1:E:1046:GLU:C	2.54	0.47
1:E:1149:ILE:O	1:E:1149:ILE:CG2	2.59	0.47
1:E:1349:ARG:CG	1:E:1349:ARG:NH1	2.75	0.47
1:F:1:CYS:HB3	3:F:2473:OMT:HE1	1.97	0.47
1:F:146:LEU:C	1:F:146:LEU:CD1	2.87	0.47
1:F:175:ARG:HH11	1:F:175:ARG:CG	2.20	0.47
1:F:227:MET:CE	1:F:282:GLU:CG	2.93	0.47
1:F:317:ILE:C	1:F:321:ASN:HD22	2.18	0.47
1:F:389:GLU:HA	1:F:403:ASP:OD2	2.15	0.47
1:F:443:ASP:O	1:F:446:GLU:N	2.40	0.47
1:F:609:GLU:C	1:F:611:MET:H	2.22	0.47
1:F:704:LEU:O	1:F:707:ILE:N	2.47	0.47
1:F:763:ALA:C	1:F:765:ALA:N	2.72	0.47
1:F:1260:GLN:O	1:F:1261:PRO:C	2.56	0.47
1:F:1431:HIS:O	1:F:1432:VAL:C	2.54	0.47
2:G:90:PHE:CZ	2:G:160:LEU:HB2	2.50	0.47
2:G:137:VAL:HG13	2:G:209:ASP:CG	2.39	0.47
2:G:166:LEU:O	2:G:169:LYS:HB2	2.15	0.47
2:G:229:LEU:HD22	2:G:236:VAL:CG1	2.45	0.47
2:G:350:PRO:HB3	2:G:372:ALA:HB1	1.97	0.47
2:G:416:LYS:NZ	2:G:433:ASN:HB2	2.29	0.47
2:H:90:PHE:CE1	2:H:160:LEU:HB2	2.50	0.47
2:H:316:VAL:CG1	2:H:342:VAL:HG22	2.45	0.47
2:I:49:GLN:HE22	2:I:69:LEU:CB	2.28	0.47
2:I:302:MET:HE1	2:I:334:VAL:CA	2.44	0.47
2:I:350:PRO:HB3	2:I:372:ALA:HB1	1.97	0.47
2:I:416:LYS:NZ	2:I:433:ASN:HB2	2.29	0.47
2:I:432:THR:HB	2:I:437:VAL:O	2.13	0.47
2:J:90:PHE:CZ	2:J:160:LEU:HB2	2.50	0.47
2:J:182:MET:HE1	2:J:216:PRO:HG3	1.94	0.47
2:J:316:VAL:CG1	2:J:342:VAL:HG22	2.45	0.47
2:J:330:SER:O	2:J:334:VAL:HG22	2.14	0.47
2:J:331:GLN:OE1	2:J:332:ARG:HD3	2.15	0.47
2:J:350:PRO:CB	2:J:372:ALA:HB1	2.45	0.47
2:K:90:PHE:CE1	2:K:160:LEU:HB2	2.50	0.47
2:K:124:GLU:O	2:K:127:ILE:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:144:ARG:HH11	2:K:169:LYS:CA	2.27	0.47
2:K:181:ARG:HD2	2:K:182:MET:N	2.29	0.47
2:K:316:VAL:CG1	2:K:342:VAL:HG22	2.45	0.47
2:K:430:LYS:CE	2:K:456:ASP:HB3	2.43	0.47
2:K:455:ARG:O	2:K:458:ARG:HB2	2.14	0.47
2:L:108:CYS:SG	2:L:118:VAL:CG2	3.03	0.47
2:L:316:VAL:CG1	2:L:342:VAL:HG22	2.45	0.47
2:L:331:GLN:OE1	2:L:332:ARG:HD3	2.15	0.47
2:L:350:PRO:CB	2:L:372:ALA:HB1	2.45	0.47
2:L:416:LYS:CE	2:L:433:ASN:HB2	2.45	0.47
2:L:432:THR:HB	2:L:437:VAL:O	2.13	0.47
1:A:345:MET:HB2	1:A:345:MET:HE2	1.15	0.47
1:A:552:THR:HG22	1:A:552:THR:O	2.14	0.47
1:A:782:ARG:C	1:A:784:SER:N	2.70	0.47
1:A:1045:TRP:O	1:A:1046:GLU:C	2.54	0.47
1:A:1226:GLY:CA	1:E:896:PRO:CB	2.92	0.47
1:A:1230:GLN:HB2	1:E:877:ARG:CD	2.33	0.47
1:A:1458:VAL:HA	1:A:1459:PRO:HD3	1.65	0.47
1:B:24:ALA:O	1:B:25:LEU:C	2.56	0.47
1:B:209:GLN:HG3	1:B:210:ARG:H	1.80	0.47
1:B:227:MET:CE	1:B:282:GLU:CG	2.93	0.47
1:B:511:ILE:CG2	1:B:512:ASP:N	2.74	0.47
1:B:572:THR:HG23	1:B:616:ALA:O	2.15	0.47
1:B:826:ARG:HD2	1:B:1078:ASP:OD1	2.14	0.47
1:B:1113:CYS:C	1:B:1115:VAL:H	2.23	0.47
1:B:1114:PRO:HB2	1:B:1115:VAL:HG23	1.97	0.47
1:B:1438:ARG:CZ	2:H:376:GLY:C	2.84	0.47
1:C:74:GLY:HA2	1:C:172:LEU:HD13	1.96	0.47
1:C:111:PRO:C	1:C:112:ILE:HG23	2.40	0.47
1:C:116:ILE:HD13	1:C:190:THR:HG21	1.94	0.47
1:C:430:VAL:HG22	1:C:557:ALA:HB3	1.95	0.47
1:C:509:PRO:O	1:C:509:PRO:HG2	2.14	0.47
1:C:526:LEU:HB3	1:C:641:SER:HB3	1.97	0.47
1:C:710:LYS:CG	1:C:939:GLY:HA3	2.34	0.47
1:C:780:ARG:NH2	2:K:54:PHE:CD1	2.80	0.47
1:C:780:ARG:NH2	2:K:109:VAL:HG11	2.29	0.47
1:C:1007:GLY:N	1:C:1051:GLU:OE2	2.41	0.47
1:C:1222:LEU:N	1:C:1229:MET:HE2	2.30	0.47
1:D:24:ALA:O	1:D:25:LEU:C	2.57	0.47
1:D:347:ARG:HH11	1:D:347:ARG:HB2	1.79	0.47
1:E:381:GLU:CD	1:E:402:ARG:HH11	2.23	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:583:ARG:CZ	1:E:587:ARG:HH12	2.28	0.47
1:E:603:HIS:N	1:E:640:THR:HG22	2.30	0.47
1:E:1424:LEU:HD21	1:E:1428:ILE:HD11	1.97	0.47
1:F:393:VAL:HG12	1:F:394:ASP:N	2.29	0.47
1:F:558:MET:C	1:F:560:ASP:H	2.23	0.47
1:F:608:ASP:OD2	1:F:647:ALA:N	2.41	0.47
1:F:1077:ARG:CG	1:F:1078:ASP:N	2.77	0.47
1:F:1112:THR:O	2:I:112:GLN:CD	2.57	0.47
2:G:63:ASN:HD21	2:G:83:VAL:HG12	1.79	0.47
2:G:460:ALA:O	2:G:464:ILE:HD12	2.14	0.47
2:I:54:PHE:CB	2:I:107:ASN:HB3	2.39	0.47
2:I:77:LEU:HD23	2:I:127:ILE:HD12	1.96	0.47
2:I:197:LYS:HZ3	2:I:275:ASP:HB3	1.79	0.47
2:K:148:LEU:CB	2:K:234:VAL:HG23	2.44	0.47
2:K:348:ALA:HB1	2:K:373:ASP:HA	1.97	0.47
2:K:365:VAL:HG22	2:K:366:ARG:CG	2.40	0.47
2:L:49:GLN:HE22	2:L:69:LEU:CB	2.28	0.47
2:L:197:LYS:HZ3	2:L:275:ASP:HB3	1.78	0.47
2:L:243:TYR:CZ	2:L:405:ASP:HB3	2.49	0.47
1:A:227:MET:HE2	1:A:282:GLU:HG3	1.93	0.47
1:A:572:THR:HG21	1:A:615:ARG:NE	2.30	0.47
1:A:1229:MET:CA	1:E:877:ARG:CG	2.80	0.47
1:A:1424:LEU:HD23	1:A:1424:LEU:C	2.40	0.47
1:B:773:LEU:H	1:B:773:LEU:HG	1.47	0.47
1:B:1113:CYS:C	1:B:1115:VAL:N	2.69	0.47
1:C:5:PHE:CE2	1:C:365:GLY:HA3	2.50	0.47
1:C:31:ARG:HD2	1:C:368:GLU:OE2	2.15	0.47
1:C:203:ASP:OD1	1:C:203:ASP:N	2.44	0.47
1:C:386:GLY:N	1:C:389:GLU:OE2	2.48	0.47
1:C:393:VAL:HG12	1:C:394:ASP:N	2.23	0.47
1:C:572:THR:HG21	1:C:615:ARG:NE	2.30	0.47
1:C:805:ASP:O	1:C:805:ASP:OD1	2.33	0.47
1:C:1424:LEU:HD21	1:C:1428:ILE:HD11	1.97	0.47
1:C:1460:LYS:O	1:C:1461:GLU:C	2.55	0.47
1:D:25:LEU:HD21	1:D:207:TYR:HB2	1.97	0.47
1:D:105:TYR:CD1	1:D:105:TYR:N	2.81	0.47
1:D:150:ILE:HG21	1:D:259:HIS:CG	2.50	0.47
1:D:227:MET:HE3	1:D:282:GLU:CA	2.27	0.47
1:D:389:GLU:HA	1:D:403:ASP:OD2	2.15	0.47
1:D:419:TRP:O	1:D:540:THR:OG1	2.27	0.47
1:D:472:GLY:O	1:D:473:LYS:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:477:GLY:O	1:D:478:SER:HB3	2.15	0.47
1:D:860:MET:HB2	1:D:860:MET:HE2	1.39	0.47
1:D:1212:ASP:OD2	1:D:1243:GLY:CA	2.63	0.47
1:D:1427:LEU:O	1:D:1428:ILE:C	2.56	0.47
1:E:348:ASN:HB2	1:E:350:LEU:HG	1.96	0.47
1:E:501:GLN:OE1	1:E:710:LYS:NZ	2.47	0.47
1:E:787:ARG:NH1	1:E:821:PRO:HB2	2.24	0.47
1:E:871:LEU:O	1:E:872:ASN:C	2.52	0.47
1:E:894:PHE:HD1	1:E:904:ASN:ND2	2.13	0.47
1:E:1001:VAL:O	1:E:1002:SER:C	2.55	0.47
1:E:1412:PHE:HD2	1:E:1455:TRP:CE3	2.33	0.47
1:F:30:HIS:CE1	1:F:368:GLU:OE2	2.68	0.47
1:F:236:THR:HG22	1:F:328:ASP:N	2.24	0.47
1:F:345:MET:HB2	1:F:345:MET:HE2	1.29	0.47
1:F:525:ARG:HG3	1:F:544:GLN:HG3	1.97	0.47
1:F:1424:LEU:HD22	1:F:1447:TRP:HH2	1.80	0.47
2:G:153:ILE:HG12	2:G:220:VAL:HG11	1.97	0.47
2:G:416:LYS:CE	2:G:433:ASN:HB2	2.45	0.47
2:G:449:LEU:CD2	2:G:452:TRP:CG	2.93	0.47
2:H:64:ASN:C	2:H:66:PRO:HD2	2.40	0.47
2:H:124:GLU:O	2:H:127:ILE:HG23	2.14	0.47
2:H:241:GLY:CA	2:H:443:ILE:HG23	2.44	0.47
2:H:394:LEU:HD22	2:H:395:VAL:N	2.30	0.47
2:H:432:THR:CG2	2:H:433:ASN:N	2.78	0.47
2:I:108:CYS:SG	2:I:118:VAL:CG2	3.03	0.47
2:I:229:LEU:HD22	2:I:236:VAL:CG1	2.45	0.47
2:I:423:LEU:CD2	2:I:423:LEU:H	2.25	0.47
2:I:423:LEU:HD22	2:I:423:LEU:N	2.28	0.47
2:J:64:ASN:C	2:J:66:PRO:HD2	2.40	0.47
2:J:148:LEU:CB	2:J:234:VAL:HG23	2.44	0.47
2:K:297:GLY:HA2	2:K:320:TYR:HE1	1.80	0.47
2:L:90:PHE:CZ	2:L:160:LEU:HB2	2.50	0.47
2:L:174:HIS:NE2	2:L:176:TYR:CD2	2.82	0.47
2:L:229:LEU:HD22	2:L:236:VAL:CG1	2.45	0.47
2:L:432:THR:CG2	2:L:433:ASN:N	2.78	0.47
1:A:3:VAL:HG22	1:A:231:ASN:HB2	1.96	0.47
1:A:47:HIS:HB3	1:A:206:ILE:HB	1.96	0.47
1:A:185:ALA:O	1:A:186:GLU:C	2.57	0.47
1:A:191:PHE:HE1	1:A:192:TYR:CE1	2.33	0.47
1:A:297:MET:HE2	1:A:297:MET:HB3	1.53	0.47
1:A:657:VAL:HG12	1:A:658:LEU:N	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:850:ARG:O	1:A:853:PHE:HB2	2.15	0.47
1:A:918:THR:HG22	1:A:920:GLU:N	2.26	0.47
1:A:935:GLY:HA3	1:A:1025:GLY:O	2.15	0.47
1:A:1397:LEU:HD22	1:A:1453:LYS:HD2	1.98	0.47
1:B:496:HIS:CD2	1:B:497:HIS:HD2	2.33	0.47
1:B:550:LEU:HB3	1:B:554:GLU:HG3	1.96	0.47
1:B:656:ALA:O	1:B:657:VAL:C	2.59	0.47
1:B:704:LEU:O	1:B:707:ILE:N	2.47	0.47
1:B:824:GLN:NE2	1:B:824:GLN:HA	2.30	0.47
1:B:885:GLY:C	1:B:887:GLY:N	2.68	0.47
1:B:1219:ALA:HA	1:B:1229:MET:CE	2.45	0.47
1:B:1357:VAL:CG1	1:B:1359:GLY:O	2.63	0.47
1:B:1424:LEU:HD22	1:B:1447:TRP:HH2	1.80	0.47
1:C:191:PHE:HE1	1:C:192:TYR:CE1	2.33	0.47
1:C:559:ARG:NH1	1:C:568:GLU:OE2	2.48	0.47
1:D:777:GLY:CA	2:H:52:VAL:HG11	2.37	0.47
1:D:1077:ARG:O	1:D:1079:ILE:N	2.48	0.47
1:E:5:PHE:CE2	1:E:365:GLY:HA3	2.50	0.47
1:E:81:ILE:HD13	1:F:216:PHE:CE1	2.50	0.47
1:E:143:GLN:O	1:E:143:GLN:NE2	2.41	0.47
1:E:631:LEU:N	1:E:631:LEU:HD23	2.29	0.47
1:E:940:GLU:O	1:E:969:PRO:HA	2.15	0.47
1:E:1447:TRP:O	1:E:1451:VAL:HG23	2.14	0.47
1:E:1460:LYS:O	1:E:1461:GLU:C	2.55	0.47
1:F:30:HIS:CE1	1:F:1237:ASN:O	2.68	0.47
2:G:108:CYS:SG	2:G:118:VAL:CG2	3.03	0.47
2:G:319:LEU:HD22	2:G:319:LEU:C	2.40	0.47
2:G:358:VAL:CG1	2:G:366:ARG:HB2	2.44	0.47
2:G:432:THR:CG2	2:G:433:ASN:N	2.78	0.47
2:H:148:LEU:CB	2:H:234:VAL:HG23	2.44	0.47
2:H:362:VAL:O	2:H:362:VAL:HG12	2.15	0.47
2:H:418:THR:HG1	2:H:420:TRP:HD1	1.59	0.47
2:I:90:PHE:CZ	2:I:160:LEU:HB2	2.50	0.47
2:I:153:ILE:HG12	2:I:220:VAL:HG11	1.96	0.47
2:I:166:LEU:O	2:I:169:LYS:HB2	2.15	0.47
2:I:292:VAL:HG22	2:I:394:LEU:CD1	2.30	0.47
2:I:297:GLY:HA2	2:I:320:TYR:HE1	1.80	0.47
2:J:108:CYS:SG	2:J:118:VAL:CG2	3.03	0.47
2:J:207:LEU:O	2:J:212:VAL:HG12	2.15	0.47
2:J:350:PRO:HB3	2:J:372:ALA:HB1	1.97	0.47
2:J:460:ALA:O	2:J:464:ILE:HD12	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:153:ILE:HG12	2:K:220:VAL:HG11	1.96	0.47
2:K:229:LEU:HD22	2:K:236:VAL:CG1	2.45	0.47
2:K:432:THR:CG2	2:K:433:ASN:N	2.78	0.47
2:L:153:ILE:HG12	2:L:220:VAL:HG11	1.97	0.47
2:L:181:ARG:HD2	2:L:182:MET:N	2.29	0.47
2:L:186:LEU:HD23	2:L:195:LEU:CG	2.43	0.47
2:L:302:MET:HE1	2:L:334:VAL:CA	2.44	0.47
2:L:405:ASP:OD1	2:L:407:PRO:HG2	2.15	0.47
2:L:449:LEU:CD2	2:L:452:TRP:CG	2.93	0.47
2:L:455:ARG:O	2:L:458:ARG:HB2	2.14	0.47
1:A:111:PRO:C	1:A:112:ILE:HG23	2.40	0.46
1:A:538:THR:O	1:A:538:THR:HG23	2.13	0.46
1:A:603:HIS:N	1:A:640:THR:HG22	2.30	0.46
1:A:745:ARG:C	1:A:746:ILE:HG13	2.40	0.46
1:A:763:ALA:O	1:A:764:THR:C	2.58	0.46
1:A:899:ASN:O	1:C:1228:LYS:HB2	2.16	0.46
1:B:252:GLU:HA	1:B:260:MET:HE3	1.95	0.46
1:B:513:SER:HA	1:B:520:MET:HE2	1.96	0.46
1:B:520:MET:HA	1:B:714:SER:O	2.15	0.46
1:B:701:ASP:C	1:B:703:GLY:N	2.69	0.46
1:B:756:LYS:O	1:B:757:LYS:C	2.58	0.46
1:B:787:ARG:H	1:B:787:ARG:HG3	1.23	0.46
1:B:824:GLN:NE2	1:B:824:GLN:CA	2.78	0.46
1:B:1226:GLY:O	1:D:900:GLY:HA2	2.15	0.46
1:C:231:ASN:HB3	1:C:332:ALA:HB3	1.96	0.46
1:C:420:VAL:C	1:C:422:ASN:H	2.23	0.46
1:C:472:GLY:O	1:C:473:LYS:HG3	2.16	0.46
1:C:498:PHE:CD1	1:C:498:PHE:N	2.82	0.46
1:C:565:THR:HG22	1:C:565:THR:O	2.15	0.46
1:C:842:GLU:HG2	1:C:1156:ARG:HH11	1.80	0.46
1:C:953:ILE:O	1:C:956:LEU:HB2	2.15	0.46
1:D:209:GLN:HG3	1:D:210:ARG:H	1.80	0.46
1:D:496:HIS:CD2	1:D:497:HIS:HD2	2.33	0.46
1:D:611:MET:HE3	1:D:611:MET:HB3	1.77	0.46
1:D:792:GLY:O	1:D:793:GLY:C	2.51	0.46
1:D:912:SER:CB	1:D:968:PRO:O	2.63	0.46
1:D:1236:ARG:C	1:D:1238:THR:N	2.70	0.46
1:E:52:GLN:O	1:E:56:LYS:HB2	2.16	0.46
1:E:345:MET:CE	1:E:385:LEU:HB3	2.45	0.46
1:E:353:MET:HG2	1:E:385:LEU:HD23	1.97	0.46
1:E:558:MET:C	1:E:560:ASP:N	2.72	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:657:VAL:HG12	1:E:658:LEU:N	2.30	0.46
1:E:780:ARG:NH2	2:L:109:VAL:HG11	2.29	0.46
1:E:1149:ILE:O	1:E:1149:ILE:HG22	2.11	0.46
1:E:1369:THR:CG2	1:E:1369:THR:O	2.63	0.46
1:E:1415:ILE:HG21	1:E:1421:GLU:CB	2.44	0.46
1:F:833:SER:OG	1:F:834:THR:N	2.48	0.46
1:F:842:GLU:HB3	1:F:1156:ARG:CD	2.43	0.46
1:F:948:LYS:C	1:F:950:THR:H	2.24	0.46
1:F:1113:CYS:C	1:F:1115:VAL:H	2.23	0.46
1:F:1424:LEU:C	1:F:1424:LEU:HD23	2.39	0.46
2:G:207:LEU:O	2:G:212:VAL:HG12	2.15	0.46
2:H:218:PHE:HD2	2:H:223:ASP:OD2	1.98	0.46
2:H:331:GLN:OE1	2:H:332:ARG:HD3	2.15	0.46
2:H:405:ASP:OD1	2:H:407:PRO:HG2	2.15	0.46
2:H:416:LYS:NZ	2:H:433:ASN:HB2	2.29	0.46
2:I:207:LEU:O	2:I:212:VAL:HG12	2.15	0.46
2:I:316:VAL:CG1	2:I:342:VAL:HG22	2.45	0.46
2:I:321:ARG:HH11	2:I:322:ARG:CZ	2.27	0.46
2:I:358:VAL:CG1	2:I:366:ARG:HB2	2.44	0.46
2:J:63:ASN:CG	2:J:68:TRP:CZ3	2.94	0.46
2:J:77:LEU:CA	2:J:127:ILE:CD1	2.93	0.46
2:J:165:GLU:CB	2:J:169:LYS:HZ3	2.27	0.46
2:J:166:LEU:HD23	2:J:461:ALA:CB	2.36	0.46
2:J:394:LEU:HD22	2:J:395:VAL:N	2.30	0.46
2:K:164:GLU:HB2	2:K:207:LEU:HD13	1.96	0.46
2:K:166:LEU:O	2:K:169:LYS:HB2	2.15	0.46
2:K:319:LEU:HD22	2:K:319:LEU:C	2.40	0.46
2:K:358:VAL:CG1	2:K:366:ARG:HB2	2.44	0.46
2:L:77:LEU:CA	2:L:127:ILE:CD1	2.93	0.46
2:L:207:LEU:O	2:L:212:VAL:HG12	2.15	0.46
2:L:358:VAL:CG1	2:L:366:ARG:HB2	2.44	0.46
2:L:416:LYS:NZ	2:L:433:ASN:HB2	2.29	0.46
1:A:353:MET:HG2	1:A:385:LEU:HD23	1.97	0.46
1:A:464:ILE:CD1	1:A:779:TYR:CZ	2.94	0.46
1:A:787:ARG:NH1	1:A:821:PRO:HB2	2.24	0.46
1:A:894:PHE:HD1	1:A:904:ASN:ND2	2.13	0.46
1:A:1117:VAL:HG12	1:A:1118:CYS:N	2.29	0.46
1:A:1201:LEU:HD12	1:A:1201:LEU:N	2.31	0.46
1:B:29:TRP:CD1	1:B:29:TRP:H	2.33	0.46
1:B:30:HIS:CE1	1:B:1237:ASN:O	2.68	0.46
1:B:393:VAL:HG12	1:B:394:ASP:N	2.29	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:404:ARG:CB	1:C:405:GLU:OE1	2.51	0.46
1:C:572:THR:HG22	1:C:615:ARG:NE	2.30	0.46
1:C:956:LEU:HA	1:C:956:LEU:HD23	1.70	0.46
1:D:227:MET:CE	1:D:282:GLU:HG2	2.44	0.46
1:D:304:THR:CG2	1:D:518:ARG:HD2	2.46	0.46
1:D:572:THR:CG2	1:D:615:ARG:HB3	2.42	0.46
1:D:743:VAL:HG12	1:D:744:SER:N	2.30	0.46
1:D:745:ARG:C	1:D:746:ILE:HG13	2.40	0.46
1:D:842:GLU:HB3	1:D:1156:ARG:CD	2.43	0.46
1:D:1105:VAL:HG22	1:D:1105:VAL:O	2.14	0.46
1:D:1113:CYS:C	1:D:1115:VAL:H	2.23	0.46
1:D:1226:GLY:O	1:F:900:GLY:HA2	2.15	0.46
1:D:1229:MET:HB3	1:F:877:ARG:O	2.15	0.46
1:D:1357:VAL:CG1	1:D:1359:GLY:O	2.63	0.46
1:D:1468:VAL:O	1:D:1469:PRO:C	2.57	0.46
1:E:3:VAL:HG22	1:E:231:ASN:HB2	1.96	0.46
1:E:52:GLN:NE2	1:E:71:LEU:CB	2.78	0.46
1:E:228:LEU:HA	1:E:228:LEU:HD12	1.29	0.46
1:E:256:PHE:O	1:E:257:GLY:C	2.56	0.46
1:E:489:SER:OG	1:E:490:ASP:N	2.48	0.46
1:E:603:HIS:N	1:E:640:THR:CG2	2.78	0.46
1:E:683:LEU:HD23	1:E:683:LEU:HA	1.56	0.46
1:E:875:MET:CE	1:E:1139:PHE:CZ	2.90	0.46
1:F:211:TYR:CD1	1:F:212:SER:N	2.80	0.46
1:F:520:MET:HA	1:F:714:SER:O	2.15	0.46
1:F:550:LEU:HB3	1:F:554:GLU:HG3	1.96	0.46
1:F:732:ARG:O	1:F:733:ALA:C	2.58	0.46
1:F:878:ILE:HG21	1:F:1136:VAL:HG13	1.96	0.46
1:F:1077:ARG:O	1:F:1079:ILE:N	2.48	0.46
1:F:1131:THR:O	1:F:1132:PRO:C	2.58	0.46
1:F:1216:VAL:HG13	1:F:1249:MET:HE2	1.96	0.46
1:F:1357:VAL:CG1	1:F:1359:GLY:O	2.63	0.46
1:F:1427:LEU:O	1:F:1428:ILE:C	2.56	0.46
2:G:89:ASN:H	2:G:89:ASN:HD22	1.64	0.46
2:G:181:ARG:HD2	2:G:182:MET:N	2.29	0.46
2:G:218:PHE:HD2	2:G:223:ASP:OD2	1.98	0.46
2:H:109:VAL:O	2:H:112:GLN:HG2	2.09	0.46
2:H:358:VAL:CG1	2:H:366:ARG:HB2	2.44	0.46
2:H:430:LYS:CE	2:H:456:ASP:HB3	2.43	0.46
2:I:63:ASN:CG	2:I:68:TRP:CZ3	2.94	0.46
2:I:405:ASP:OD1	2:I:407:PRO:HG2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:472:ALA:O	2:I:473:GLU:HB3	2.15	0.46
2:J:49:GLN:HE22	2:J:69:LEU:CB	2.28	0.46
2:J:229:LEU:HD22	2:J:236:VAL:CG1	2.45	0.46
2:K:460:ALA:O	2:K:464:ILE:HD12	2.14	0.46
2:L:175:VAL:HG11	2:L:214:TYR:CG	2.47	0.46
1:A:12:LYS:HA	1:A:13:PRO:HD3	1.72	0.46
1:A:231:ASN:HB3	1:A:332:ALA:HB3	1.96	0.46
1:A:248:GLU:OE2	1:A:266:VAL:N	2.44	0.46
1:A:420:VAL:C	1:A:422:ASN:H	2.23	0.46
1:A:489:SER:OG	1:A:490:ASP:N	2.48	0.46
1:A:572:THR:HG22	1:A:615:ARG:NE	2.30	0.46
1:A:1075:THR:HG22	1:A:1077:ARG:N	2.30	0.46
1:A:1450:GLU:O	1:A:1451:VAL:C	2.57	0.46
1:B:227:MET:CE	1:B:282:GLU:HG2	2.44	0.46
1:B:302:ALA:HB2	1:B:347:ARG:HH11	1.76	0.46
1:B:417:ASP:HA	1:B:420:VAL:CG1	2.46	0.46
1:B:877:ARG:O	1:F:1229:MET:HB3	2.15	0.46
1:C:12:LYS:HA	1:C:13:PRO:HD3	1.72	0.46
1:C:136:ASN:OD1	1:C:136:ASN:N	2.47	0.46
1:C:242:ASN:HD22	1:C:242:ASN:H	1.61	0.46
1:C:746:ILE:HG23	1:C:1182:ASP:N	2.21	0.46
1:C:899:ASN:O	1:E:1228:LYS:HB2	2.16	0.46
1:C:1068:ARG:NE	1:C:1089:GLU:OE1	2.39	0.46
1:C:1290:GLY:O	1:C:1291:ASP:CB	2.53	0.46
1:C:1383:PHE:O	1:C:1384:ALA:HB3	2.15	0.46
1:D:30:HIS:CE1	1:D:368:GLU:OE2	2.68	0.46
1:D:30:HIS:CE1	1:D:1237:ASN:O	2.68	0.46
1:D:162:GLU:CB	1:D:164:ILE:HD12	2.44	0.46
1:D:227:MET:CE	1:D:282:GLU:CG	2.93	0.46
1:D:1143:ALA:O	1:D:1146:VAL:N	2.47	0.46
1:E:183:PHE:HE1	1:E:188:LEU:HA	1.79	0.46
1:E:329:GLY:O	1:E:330:PRO:C	2.56	0.46
1:E:386:GLY:N	1:E:389:GLU:OE2	2.48	0.46
1:E:745:ARG:C	1:E:746:ILE:HG13	2.40	0.46
1:E:1159:ASN:C	1:E:1161:VAL:H	2.22	0.46
1:E:1383:PHE:O	1:E:1384:ALA:HB3	2.15	0.46
1:E:1424:LEU:HD23	1:E:1424:LEU:C	2.40	0.46
4:E:2474:FMN:H9	4:E:2474:FMN:H1'2	1.70	0.46
1:F:227:MET:CE	1:F:282:GLU:HG2	2.44	0.46
1:F:286:ARG:HD3	1:F:286:ARG:HA	1.55	0.46
1:F:347:ARG:HH11	1:F:347:ARG:HB2	1.79	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:417:ASP:HA	1:F:420:VAL:CG1	2.46	0.46
1:F:457:THR:O	1:F:461:MET:HG2	2.15	0.46
1:F:571:ALA:C	1:F:618:ILE:HD12	2.40	0.46
1:F:629:THR:O	1:F:632:ILE:HB	2.16	0.46
1:F:1201:LEU:H	1:F:1201:LEU:HD22	1.79	0.46
1:F:1424:LEU:HD23	1:F:1428:ILE:HG13	1.96	0.46
2:G:49:GLN:HE22	2:G:69:LEU:CB	2.28	0.46
2:G:64:ASN:OD1	2:G:66:PRO:HD2	2.15	0.46
2:G:246:ARG:O	2:G:397:LYS:HE3	2.16	0.46
2:G:331:GLN:OE1	2:G:332:ARG:HD3	2.15	0.46
2:G:405:ASP:OD1	2:G:407:PRO:HG2	2.15	0.46
2:H:49:GLN:HE22	2:H:69:LEU:CB	2.28	0.46
2:H:64:ASN:OD1	2:H:66:PRO:HD2	2.15	0.46
2:H:90:PHE:CZ	2:H:160:LEU:HB2	2.50	0.46
2:H:348:ALA:HB1	2:H:373:ASP:HA	1.96	0.46
2:H:472:ALA:O	2:H:473:GLU:HB3	2.15	0.46
2:I:109:VAL:O	2:I:112:GLN:HG2	2.09	0.46
2:I:189:GLY:HA2	2:I:265:LEU:HB3	1.98	0.46
2:I:207:LEU:CD1	2:I:212:VAL:CG1	2.94	0.46
2:I:208:ALA:HA	2:I:212:VAL:HG13	1.98	0.46
2:I:375:THR:CG2	2:I:376:GLY:N	2.79	0.46
2:I:432:THR:CG2	2:I:433:ASN:N	2.78	0.46
2:I:480:ALA:O	2:I:481:GLU:HB3	2.14	0.46
2:J:30:GLU:OE2	2:J:32:TYR:HB2	2.16	0.46
2:J:166:LEU:O	2:J:169:LYS:HB2	2.15	0.46
2:J:405:ASP:OD1	2:J:407:PRO:HG2	2.15	0.46
2:K:89:ASN:H	2:K:89:ASN:HD22	1.64	0.46
2:K:175:VAL:HG11	2:K:214:TYR:CG	2.47	0.46
2:K:218:PHE:HD2	2:K:223:ASP:OD2	1.98	0.46
2:K:350:PRO:CB	2:K:372:ALA:HB1	2.45	0.46
2:L:64:ASN:C	2:L:66:PRO:HD2	2.40	0.46
2:L:90:PHE:O	2:L:93:ILE:HG23	2.16	0.46
2:L:144:ARG:HH11	2:L:169:LYS:CA	2.27	0.46
2:L:218:PHE:HD2	2:L:223:ASP:OD2	1.98	0.46
1:A:24:ALA:C	1:A:26:LYS:H	2.23	0.46
1:A:143:GLN:CA	1:A:143:GLN:NE2	2.78	0.46
1:A:293:MET:HE3	1:A:293:MET:HB3	1.72	0.46
1:A:856:PRO:C	1:A:883:ASP:HB3	2.41	0.46
1:A:896:PRO:CB	1:C:1226:GLY:CA	2.92	0.46
1:A:940:GLU:O	1:A:969:PRO:HA	2.15	0.46
1:A:1274:GLN:NE2	1:A:1293:ASN:HB3	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:313:HIS:CD2	1:B:313:HIS:H	2.34	0.46
1:B:389:GLU:HA	1:B:403:ASP:OD2	2.15	0.46
1:B:547:SER:C	1:B:549:VAL:H	2.22	0.46
1:B:608:ASP:OD2	1:B:647:ALA:N	2.42	0.46
1:B:839:PRO:HG2	1:B:842:GLU:OE1	2.15	0.46
1:B:900:GLY:C	1:F:1228:LYS:N	2.64	0.46
1:B:1061:LEU:O	1:B:1064:ARG:HB2	2.15	0.46
1:C:47:HIS:HB3	1:C:206:ILE:HB	1.96	0.46
1:C:81:ILE:HD13	1:D:216:PHE:CE1	2.50	0.46
1:C:248:GLU:O	1:C:249:THR:C	2.56	0.46
1:C:353:MET:HG2	1:C:385:LEU:HD23	1.97	0.46
1:C:1005:GLY:O	1:C:1009:ILE:HD12	2.16	0.46
1:C:1049:LEU:HD21	1:C:1087:ALA:HB2	1.98	0.46
1:C:1075:THR:HG22	1:C:1077:ARG:N	2.30	0.46
1:C:1156:ARG:O	1:C:1157:SER:CB	2.62	0.46
1:C:1231:LEU:O	1:C:1266:ILE:HA	2.16	0.46
1:C:1427:LEU:HD23	1:C:1427:LEU:HA	1.79	0.46
1:D:89:CYS:O	1:D:93:VAL:HG23	2.16	0.46
1:D:1131:THR:O	1:D:1132:PRO:C	2.58	0.46
1:D:1132:PRO:O	1:D:1133:GLU:C	2.56	0.46
1:D:1201:LEU:HD22	1:D:1201:LEU:H	1.79	0.46
1:D:1424:LEU:HD22	1:D:1447:TRP:HH2	1.80	0.46
1:E:572:THR:HG21	1:E:615:ARG:NE	2.30	0.46
1:E:1075:THR:HG22	1:E:1077:ARG:N	2.30	0.46
1:E:1428:ILE:O	1:E:1428:ILE:HG22	2.14	0.46
1:E:1463:LEU:HD23	1:E:1463:LEU:HA	1.66	0.46
1:F:89:CYS:O	1:F:93:VAL:HG23	2.16	0.46
1:F:147:ASP:O	1:F:151:ILE:HG13	2.15	0.46
1:F:572:THR:HG23	1:F:616:ALA:O	2.15	0.46
1:F:615:ARG:HG2	1:F:615:ARG:NH1	2.30	0.46
1:F:694:ALA:O	1:F:695:ASN:C	2.58	0.46
1:F:1184:ASN:N	1:F:1185:PRO:HD2	2.30	0.46
1:F:1212:ASP:OD2	1:F:1243:GLY:CA	2.63	0.46
2:G:90:PHE:CE1	2:G:160:LEU:HB2	2.50	0.46
2:G:208:ALA:HA	2:G:212:VAL:HG13	1.98	0.46
2:H:91:PRO:HD2	2:H:203:ARG:HH21	1.79	0.46
2:H:108:CYS:SG	2:H:118:VAL:CG2	3.03	0.46
2:H:207:LEU:O	2:H:212:VAL:HG12	2.15	0.46
2:H:229:LEU:HD22	2:H:236:VAL:CG1	2.45	0.46
2:H:416:LYS:CE	2:H:433:ASN:HB2	2.45	0.46
2:I:64:ASN:OD1	2:I:66:PRO:HD2	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:63:ASN:HD21	2:J:83:VAL:HG12	1.79	0.46
2:J:90:PHE:CE1	2:J:160:LEU:HB2	2.50	0.46
2:J:358:VAL:CG1	2:J:366:ARG:HB2	2.44	0.46
2:J:375:THR:CG2	2:J:376:GLY:N	2.79	0.46
2:K:77:LEU:CA	2:K:127:ILE:CD1	2.93	0.46
2:K:207:LEU:O	2:K:212:VAL:HG12	2.15	0.46
2:K:246:ARG:O	2:K:397:LYS:HE3	2.16	0.46
2:K:416:LYS:HZ2	2:K:416:LYS:HB2	1.80	0.46
2:K:418:THR:HG1	2:K:420:TRP:HD1	1.61	0.46
2:L:54:PHE:CB	2:L:107:ASN:HB3	2.39	0.46
2:L:297:GLY:HA2	2:L:320:TYR:HE1	1.80	0.46
2:L:321:ARG:HH11	2:L:322:ARG:CZ	2.27	0.46
2:L:375:THR:CG2	2:L:376:GLY:N	2.79	0.46
1:A:10:ASP:OD1	1:A:10:ASP:C	2.59	0.46
1:A:313:HIS:CD2	1:A:313:HIS:N	2.83	0.46
1:A:536:ASP:OD1	1:A:538:THR:N	2.49	0.46
1:A:805:ASP:O	1:A:805:ASP:CG	2.49	0.46
1:A:805:ASP:O	1:A:805:ASP:OD1	2.33	0.46
1:A:833:SER:HB3	1:A:1153:LEU:HD22	1.98	0.46
1:A:944:LEU:HD12	1:A:944:LEU:HA	1.72	0.46
1:B:105:TYR:N	1:B:105:TYR:CD1	2.81	0.46
1:B:745:ARG:C	1:B:746:ILE:HG13	2.40	0.46
1:B:986:ASP:O	1:B:987:LEU:C	2.56	0.46
1:C:78:LEU:HD12	1:C:129:GLU:HG3	1.97	0.46
1:C:458:MET:HE3	1:C:458:MET:HB2	1.76	0.46
1:C:468:MET:HG2	1:C:699:ALA:HB1	1.97	0.46
1:C:500:ARG:NH2	1:C:1041:ALA:O	2.48	0.46
1:C:672:GLN:CG	1:C:693:MET:CE	2.79	0.46
1:C:1113:CYS:C	1:C:1115:VAL:N	2.71	0.46
1:D:746:ILE:CG2	1:D:1182:ASP:CB	2.86	0.46
1:D:824:GLN:NE2	1:D:824:GLN:CA	2.78	0.46
1:D:839:PRO:HG2	1:D:842:GLU:OE1	2.15	0.46
1:D:1030:THR:OG1	5:D:2475:AKG:O1	2.24	0.46
1:E:121:ALA:C	1:E:123:ALA:N	2.73	0.46
1:E:251:MET:HB2	1:E:533:LEU:CD1	2.44	0.46
1:E:420:VAL:C	1:E:422:ASN:H	2.23	0.46
1:E:454:PHE:N	1:E:454:PHE:CD1	2.81	0.46
1:E:472:GLY:O	1:E:473:LYS:HG3	2.16	0.46
1:E:823:MET:HB2	1:E:823:MET:HE3	1.61	0.46
1:E:828:LEU:HD22	1:E:1172:SER:CB	2.38	0.46
1:E:914:ARG:HH22	1:E:973:ASP:CG	2.23	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:935:GLY:HA3	1:E:1025:GLY:O	2.15	0.46
1:E:1231:LEU:O	1:E:1266:ILE:HA	2.16	0.46
1:E:1430:GLU:O	1:E:1431:HIS:C	2.58	0.46
1:F:107:TRP:H	1:F:107:TRP:HD1	1.60	0.46
1:F:150:ILE:HG21	1:F:259:HIS:CG	2.50	0.46
1:F:254:PRO:O	1:F:257:GLY:N	2.37	0.46
1:F:290:THR:HG22	1:F:292:PRO:N	2.31	0.46
1:F:304:THR:CG2	1:F:518:ARG:HD2	2.46	0.46
1:F:511:ILE:HG22	1:F:512:ASP:H	1.79	0.46
1:F:824:GLN:O	1:F:827:ASP:CB	2.58	0.46
1:F:1061:LEU:O	1:F:1064:ARG:HB2	2.16	0.46
1:F:1143:ALA:O	1:F:1146:VAL:N	2.47	0.46
1:F:1417:VAL:HG12	1:F:1419:HIS:N	2.26	0.46
2:G:297:GLY:HA2	2:G:320:TYR:HE1	1.80	0.46
2:H:54:PHE:CB	2:H:107:ASN:HB3	2.39	0.46
2:H:63:ASN:HD21	2:H:83:VAL:HG12	1.79	0.46
2:H:81:TYR:HD1	2:H:128:ASN:HA	1.81	0.46
2:H:166:LEU:O	2:H:169:LYS:HB2	2.15	0.46
2:H:189:GLY:HA2	2:H:265:LEU:HB3	1.98	0.46
2:I:81:TYR:HD1	2:I:128:ASN:HA	1.81	0.46
2:I:266:THR:HG23	2:I:270:LYS:HZ2	1.79	0.46
2:I:319:LEU:C	2:I:319:LEU:HD22	2.40	0.46
2:J:51:GLY:O	2:J:52:VAL:HG23	2.16	0.46
2:J:416:LYS:NZ	2:J:433:ASN:HB2	2.29	0.46
2:K:90:PHE:CZ	2:K:160:LEU:HB2	2.50	0.46
2:K:93:ILE:HD11	2:K:195:LEU:CD2	2.30	0.46
2:K:108:CYS:SG	2:K:118:VAL:CG2	3.03	0.46
2:K:324:ARG:HA	2:K:346:TRP:CZ2	2.46	0.46
2:L:89:ASN:H	2:L:89:ASN:HD22	1.64	0.46
2:L:90:PHE:CE1	2:L:160:LEU:HB2	2.50	0.46
2:L:189:GLY:HA2	2:L:265:LEU:HB3	1.98	0.46
2:L:208:ALA:HA	2:L:212:VAL:HG13	1.98	0.46
2:L:472:ALA:O	2:L:473:GLU:HB3	2.15	0.46
1:A:1226:GLY:C	1:E:896:PRO:HB2	2.39	0.46
1:A:1230:GLN:C	1:A:1231:LEU:HD23	2.41	0.46
1:B:125:ARG:HG3	1:B:219:TRP:CZ2	2.51	0.46
1:B:304:THR:CG2	1:B:518:ARG:HD2	2.46	0.46
1:B:430:VAL:HG13	1:B:554:GLU:CA	2.37	0.46
1:B:457:THR:O	1:B:461:MET:HG2	2.15	0.46
1:B:487:VAL:HG13	1:B:498:PHE:HE2	1.81	0.46
1:B:689:LEU:HD12	1:B:689:LEU:C	2.18	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:743:VAL:HG12	1:B:744:SER:N	2.30	0.46
1:B:842:GLU:HB3	1:B:1156:ARG:CD	2.43	0.46
1:B:963:VAL:CG1	1:B:964:MET:H	2.25	0.46
1:B:1010:ALA:HB2	1:B:1052:VAL:HG22	1.97	0.46
1:B:1076:GLY:N	1:B:1145:GLU:OE2	2.49	0.46
1:C:52:GLN:NE2	1:C:71:LEU:HB2	2.27	0.46
1:C:393:VAL:CG1	1:C:394:ASP:N	2.77	0.46
1:C:537:GLU:C	1:C:539:GLN:N	2.74	0.46
1:C:894:PHE:HD1	1:C:904:ASN:ND2	2.13	0.46
1:C:1195:ASN:HD21	1:C:1197:ARG:CZ	2.29	0.46
1:C:1401:LEU:N	1:C:1402:PRO:CD	2.79	0.46
1:C:1424:LEU:HD23	1:C:1424:LEU:C	2.40	0.46
1:C:1438:ARG:O	1:C:1441:ALA:N	2.49	0.46
1:D:125:ARG:HG3	1:D:219:TRP:CZ2	2.51	0.46
1:D:147:ASP:O	1:D:151:ILE:HG13	2.15	0.46
1:D:196:LEU:HD23	1:D:196:LEU:HA	1.55	0.46
1:D:263:LEU:N	1:D:263:LEU:CD1	2.73	0.46
1:D:313:HIS:CD2	1:D:313:HIS:H	2.34	0.46
1:D:393:VAL:HG12	1:D:394:ASP:N	2.29	0.46
1:D:878:ILE:HG21	1:D:878:ILE:HD13	1.66	0.46
1:D:948:LYS:C	1:D:950:THR:H	2.23	0.46
1:D:1207:VAL:HG13	1:D:1208:PRO:CD	2.46	0.46
1:E:136:ASN:OD1	1:E:136:ASN:N	2.47	0.46
1:E:850:ARG:O	1:E:853:PHE:HB2	2.15	0.46
1:E:969:PRO:CD	1:E:970:PRO:HD2	2.46	0.46
1:E:1274:GLN:H	1:E:1274:GLN:HG2	1.35	0.46
1:E:1274:GLN:NE2	1:E:1293:ASN:HB3	2.30	0.46
1:E:1412:PHE:HD2	1:E:1455:TRP:CZ3	2.33	0.46
1:F:839:PRO:HG2	1:F:842:GLU:OE1	2.15	0.46
2:G:161:ALA:CB	2:G:454:ILE:HG12	2.40	0.46
2:G:228:GLU:O	2:G:231:ARG:HB3	2.16	0.46
2:G:375:THR:CG2	2:G:376:GLY:N	2.79	0.46
2:G:449:LEU:CD2	2:G:451:VAL:HG13	2.27	0.46
2:H:88:ASN:OD1	2:H:91:PRO:HA	2.16	0.46
2:H:266:THR:HG23	2:H:270:LYS:HZ2	1.80	0.46
2:I:30:GLU:OE2	2:I:32:TYR:HB2	2.16	0.46
2:I:348:ALA:HB1	2:I:373:ASP:HA	1.97	0.46
2:I:350:PRO:HG2	2:I:380:PRO:HA	1.98	0.46
2:I:416:LYS:CE	2:I:433:ASN:HB2	2.45	0.46
2:J:81:TYR:HD1	2:J:128:ASN:HA	1.81	0.46
2:J:228:GLU:O	2:J:231:ARG:HB3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:362:VAL:HG12	2:J:362:VAL:O	2.15	0.46
2:J:394:LEU:CD2	2:J:395:VAL:N	2.79	0.46
2:K:77:LEU:HD23	2:K:127:ILE:HD12	1.96	0.46
2:K:228:GLU:O	2:K:231:ARG:HB3	2.16	0.46
2:K:423:LEU:CD2	2:K:423:LEU:H	2.25	0.46
2:L:64:ASN:OD1	2:L:66:PRO:HD2	2.15	0.46
2:L:350:PRO:HG2	2:L:380:PRO:HA	1.98	0.46
1:A:52:GLN:NE2	1:A:71:LEU:CB	2.78	0.46
1:A:57:ASP:O	1:A:60:LYS:HB2	2.15	0.46
1:A:337:ASP:O	1:A:338:GLY:C	2.56	0.46
1:A:472:GLY:O	1:A:473:LYS:HG3	2.16	0.46
1:A:583:ARG:CZ	1:A:587:ARG:HH12	2.27	0.46
1:A:603:HIS:N	1:A:640:THR:CG2	2.79	0.46
1:A:914:ARG:HH22	1:A:973:ASP:CG	2.23	0.46
1:A:969:PRO:CD	1:A:970:PRO:HD2	2.46	0.46
1:A:1231:LEU:O	1:A:1266:ILE:HA	2.16	0.46
1:B:30:HIS:CE1	1:B:368:GLU:OE2	2.68	0.46
1:B:53:LYS:O	1:B:54:PHE:C	2.58	0.46
1:B:139:VAL:HG12	1:B:143:GLN:HB2	1.97	0.46
1:B:244:MET:O	1:B:245:LYS:C	2.57	0.46
1:B:263:LEU:HA	1:B:263:LEU:HD12	1.11	0.46
1:B:413:LEU:O	1:B:414:LYS:HD2	2.16	0.46
1:B:787:ARG:O	1:B:788:HIS:ND1	2.49	0.46
1:B:1131:THR:HG22	1:B:1133:GLU:CA	2.46	0.46
1:B:1212:ASP:OD2	1:B:1243:GLY:CA	2.63	0.46
1:B:1229:MET:HB3	1:D:877:ARG:O	2.15	0.46
1:B:1424:LEU:CD2	1:B:1428:ILE:HD11	2.46	0.46
1:C:98:LEU:HD23	1:C:98:LEU:HA	1.82	0.46
1:C:230:HIS:C	1:C:230:HIS:CD2	2.94	0.46
1:C:603:HIS:N	1:C:640:THR:HG22	2.30	0.46
1:C:782:ARG:HD3	2:K:53:PRO:HD2	1.79	0.46
1:D:29:TRP:H	1:D:29:TRP:CD1	2.33	0.46
1:D:290:THR:CG2	1:D:291:ALA:N	2.75	0.46
1:D:290:THR:HG22	1:D:292:PRO:N	2.31	0.46
1:D:416:TRP:O	1:D:419:TRP:HB2	2.16	0.46
1:D:492:TYR:CD1	1:D:492:TYR:C	2.94	0.46
1:D:571:ALA:C	1:D:618:ILE:HD12	2.40	0.46
1:D:609:GLU:C	1:D:611:MET:H	2.22	0.46
1:D:798:LEU:O	1:D:801:ALA:HB3	2.16	0.46
1:D:824:GLN:NE2	1:D:824:GLN:HA	2.30	0.46
1:E:143:GLN:CA	1:E:143:GLN:NE2	2.78	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:191:PHE:HE1	1:E:192:TYR:CE1	2.33	0.46
1:E:505:GLN:HE21	1:E:1001:VAL:N	2.01	0.46
1:E:763:ALA:O	1:E:764:THR:C	2.58	0.46
1:E:842:GLU:HG2	1:E:1156:ARG:HH11	1.80	0.46
1:E:989:GLN:O	1:E:1245:ARG:HD3	2.16	0.46
1:E:1049:LEU:HD21	1:E:1087:ALA:HB2	1.98	0.46
1:F:25:LEU:HD21	1:F:207:TYR:HB2	1.97	0.46
1:F:59:VAL:HG22	1:F:105:TYR:HD2	1.78	0.46
1:F:253:HIS:N	1:F:260:MET:HE1	2.19	0.46
1:F:416:TRP:O	1:F:419:TRP:HB2	2.16	0.46
1:F:477:GLY:O	1:F:478:SER:HB3	2.15	0.46
1:F:560:ASP:O	1:F:561:TYR:C	2.58	0.46
1:F:782:ARG:HH22	2:I:51:GLY:HA2	0.97	0.46
1:F:1128:PHE:CZ	1:F:1130:GLY:CA	2.93	0.46
1:F:1207:VAL:HG13	1:F:1208:PRO:CD	2.46	0.46
2:G:144:ARG:HH11	2:G:169:LYS:CA	2.27	0.46
2:G:203:ARG:HB3	2:G:203:ARG:NH2	2.31	0.46
2:G:257:ASN:HD22	2:G:364:ALA:CB	2.29	0.46
2:H:63:ASN:CG	2:H:68:TRP:CZ3	2.94	0.46
2:H:110:ILE:HG13	2:H:117:ALA:CA	2.35	0.46
2:H:110:ILE:HB	2:H:115:HIS:HE1	1.81	0.46
2:I:64:ASN:C	2:I:66:PRO:HD2	2.40	0.46
2:I:218:PHE:HD2	2:I:223:ASP:OD2	1.98	0.46
2:I:350:PRO:CB	2:I:372:ALA:HB1	2.45	0.46
2:J:218:PHE:HD2	2:J:223:ASP:OD2	1.98	0.46
2:J:350:PRO:HG2	2:J:380:PRO:HA	1.98	0.46
2:K:257:ASN:HD22	2:K:364:ALA:CB	2.29	0.46
2:L:350:PRO:HB3	2:L:372:ALA:HB1	1.97	0.46
2:L:480:ALA:O	2:L:481:GLU:HB3	2.15	0.46
1:A:295:LYS:HE2	1:A:299:VAL:HG11	1.98	0.46
1:A:370:GLY:CA	1:A:1237:ASN:HB3	2.45	0.46
1:A:565:THR:HG22	1:A:565:THR:O	2.15	0.46
1:A:780:ARG:CB	2:J:51:GLY:O	2.64	0.46
1:A:1049:LEU:HD21	1:A:1087:ALA:HB2	1.98	0.46
1:A:1226:GLY:O	1:A:1227:GLU:C	2.59	0.46
1:B:89:CYS:O	1:B:93:VAL:HG23	2.16	0.46
1:B:266:VAL:HG12	1:B:266:VAL:O	2.15	0.46
1:B:355:TYR:C	1:B:355:TYR:HD1	2.20	0.46
1:B:777:GLY:CA	2:G:52:VAL:HG13	2.12	0.46
1:B:918:THR:HG23	1:B:1256:MET:SD	2.56	0.46
1:B:1184:ASN:N	1:B:1185:PRO:HD2	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1207:VAL:HG13	1:B:1208:PRO:CD	2.46	0.46
1:C:260:MET:HA	1:C:263:LEU:HB2	1.98	0.46
1:C:350:LEU:HD23	1:C:350:LEU:HA	1.55	0.46
1:C:1201:LEU:HD12	1:C:1201:LEU:N	2.31	0.46
1:D:139:VAL:HG12	1:D:143:GLN:HB2	1.97	0.46
1:D:286:ARG:HA	1:D:286:ARG:HD3	1.55	0.46
1:D:359:THR:HG23	1:D:378:GLN:O	2.16	0.46
1:D:457:THR:O	1:D:461:MET:HG2	2.15	0.46
1:D:570:ASP:OD1	1:D:570:ASP:C	2.59	0.46
1:D:580:GLU:O	1:D:581:ALA:C	2.56	0.46
1:D:621:ILE:HG12	1:D:657:VAL:HG11	1.97	0.46
1:D:643:ASN:HB3	1:D:665:THR:HG22	1.98	0.46
1:D:1153:LEU:HD23	1:D:1153:LEU:HA	1.42	0.46
1:E:24:ALA:C	1:E:26:LYS:H	2.23	0.46
1:E:863:LEU:HB3	1:E:1118:CYS:HB3	1.97	0.46
1:E:911:ALA:O	1:E:912:SER:C	2.57	0.46
1:E:1397:LEU:HD22	1:E:1453:LYS:HD2	1.98	0.46
1:E:1438:ARG:O	1:E:1441:ALA:N	2.49	0.46
1:F:313:HIS:H	1:F:313:HIS:CD2	2.34	0.46
2:G:90:PHE:O	2:G:93:ILE:HG23	2.16	0.46
2:G:189:GLY:HA2	2:G:265:LEU:HB3	1.98	0.46
2:G:350:PRO:CB	2:G:372:ALA:HB1	2.45	0.46
2:G:443:ILE:HD12	2:G:443:ILE:C	2.41	0.46
2:H:89:ASN:H	2:H:89:ASN:HD22	1.64	0.46
2:H:228:GLU:O	2:H:231:ARG:HB3	2.16	0.46
2:I:88:ASN:OD1	2:I:91:PRO:HA	2.16	0.46
2:I:90:PHE:CE1	2:I:160:LEU:HB2	2.50	0.46
2:I:331:GLN:HA	2:I:334:VAL:HG22	1.93	0.46
2:I:430:LYS:CE	2:I:456:ASP:HB3	2.43	0.46
2:J:64:ASN:OD1	2:J:66:PRO:HD2	2.15	0.46
2:J:100:GLN:HB3	2:J:105:GLU:CD	2.41	0.46
2:J:257:ASN:HD22	2:J:364:ALA:CB	2.29	0.46
2:J:365:VAL:HG22	2:J:366:ARG:CG	2.40	0.46
2:J:472:ALA:O	2:J:473:GLU:HB3	2.15	0.46
2:K:110:ILE:HG13	2:K:117:ALA:CA	2.35	0.46
2:K:189:GLY:HA2	2:K:265:LEU:HB3	1.98	0.46
2:K:203:ARG:HB3	2:K:203:ARG:NH2	2.31	0.46
2:K:208:ALA:HA	2:K:212:VAL:HG13	1.98	0.46
2:K:394:LEU:CD2	2:K:395:VAL:N	2.79	0.46
2:L:63:ASN:CG	2:L:68:TRP:CZ3	2.94	0.46
2:L:81:TYR:HD1	2:L:128:ASN:HA	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:207:LEU:CD1	2:L:212:VAL:CG1	2.94	0.46
2:L:228:GLU:O	2:L:231:ARG:HB3	2.16	0.46
2:L:443:ILE:HD12	2:L:443:ILE:C	2.41	0.46
1:A:376:GLU:O	1:A:378:GLN:N	2.49	0.46
1:A:701:ASP:C	1:A:703:GLY:N	2.71	0.46
1:A:732:ARG:O	1:A:733:ALA:C	2.59	0.46
1:A:1195:ASN:HD21	1:A:1197:ARG:CZ	2.29	0.46
1:A:1228:LYS:HB2	1:E:899:ASN:O	2.16	0.46
1:A:1229:MET:C	1:E:877:ARG:CG	2.89	0.46
1:B:25:LEU:HD21	1:B:207:TYR:HB2	1.97	0.46
1:B:570:ASP:OD1	1:B:570:ASP:C	2.59	0.46
1:B:948:LYS:C	1:B:950:THR:H	2.23	0.46
1:B:1228:LYS:N	1:D:900:GLY:C	2.64	0.46
1:C:52:GLN:O	1:C:56:LYS:HB2	2.16	0.46
1:C:57:ASP:O	1:C:60:LYS:HB2	2.15	0.46
1:C:863:LEU:HB3	1:C:1118:CYS:HB3	1.97	0.46
1:C:1009:ILE:O	1:C:1010:ALA:C	2.59	0.46
1:C:1047:MET:O	1:C:1048:GLY:C	2.56	0.46
1:C:1230:GLN:C	1:C:1231:LEU:HD23	2.41	0.46
1:C:1289:MET:CE	1:C:1289:MET:N	2.76	0.46
1:D:1:CYS:HB3	3:D:2473:OMT:HE1	1.97	0.46
1:D:100:PHE:O	1:D:137:LYS:CE	2.46	0.46
1:D:248:GLU:C	1:D:250:ARG:N	2.73	0.46
1:D:525:ARG:HG3	1:D:544:GLN:HG3	1.97	0.46
1:D:1076:GLY:N	1:D:1145:GLU:OE2	2.49	0.46
1:E:266:VAL:HG12	1:E:266:VAL:O	2.16	0.46
1:E:536:ASP:OD1	1:E:538:THR:N	2.49	0.46
1:E:1057:THR:HG22	1:E:1058:LEU:N	2.28	0.46
1:E:1117:VAL:HG12	1:E:1118:CYS:N	2.29	0.46
1:F:228:LEU:HD22	1:F:278:ASP:HA	1.98	0.46
1:F:496:HIS:CD2	1:F:497:HIS:HD2	2.33	0.46
1:F:838:VAL:HG13	1:F:839:PRO:CD	2.32	0.46
4:F:2474:FMN:HM83	4:F:2474:FMN:HM71	1.53	0.46
2:G:179:TYR:HB3	2:G:181:ARG:HH12	1.81	0.46
2:G:272:SER:O	2:G:273:LEU:HD13	2.16	0.46
2:H:207:LEU:CD1	2:H:212:VAL:CG1	2.94	0.46
2:H:208:ALA:HA	2:H:212:VAL:HG13	1.98	0.46
2:H:257:ASN:HD22	2:H:364:ALA:CB	2.29	0.46
2:H:276:THR:HG22	2:H:277:VAL:N	2.31	0.46
2:H:290:LYS:CG	2:H:291:HIS:N	2.79	0.46
2:H:319:LEU:C	2:H:319:LEU:HD22	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:371:VAL:CG2	2:H:386:SER:CB	2.94	0.46
2:H:394:LEU:CD2	2:H:395:VAL:N	2.79	0.46
2:H:460:ALA:O	2:H:464:ILE:HD12	2.14	0.46
2:I:246:ARG:O	2:I:397:LYS:HE3	2.16	0.46
2:I:276:THR:HG22	2:I:277:VAL:N	2.31	0.46
2:J:54:PHE:CB	2:J:107:ASN:HB3	2.39	0.46
2:J:80:ALA:HB3	2:J:127:ILE:HD11	1.96	0.46
2:J:189:GLY:HA2	2:J:265:LEU:HB3	1.98	0.46
2:J:319:LEU:HD22	2:J:319:LEU:C	2.40	0.46
2:J:371:VAL:CG2	2:J:386:SER:CB	2.94	0.46
2:J:449:LEU:CG	2:J:451:VAL:HG12	2.46	0.46
2:K:28:PHE:N	2:K:28:PHE:CD1	2.84	0.46
2:K:416:LYS:CE	2:K:433:ASN:HB2	2.45	0.46
2:K:472:ALA:O	2:K:473:GLU:HB3	2.15	0.46
2:L:30:GLU:OE2	2:L:32:TYR:HB2	2.16	0.46
2:L:365:VAL:HG22	2:L:366:ARG:CG	2.40	0.46
2:L:394:LEU:CD2	2:L:395:VAL:N	2.79	0.46
1:A:213:THR:O	1:A:214:ASN:ND2	2.43	0.46
1:A:280:VAL:O	1:A:281:PHE:C	2.58	0.46
1:A:281:PHE:CZ	1:A:335:MET:HG2	2.50	0.46
1:A:298:LEU:HD23	1:A:324:MET:CG	2.44	0.46
1:A:863:LEU:HB3	1:A:1118:CYS:HB3	1.97	0.46
1:B:102:TYR:HA	1:B:136:ASN:OD1	2.16	0.46
1:B:242:ASN:C	1:B:244:MET:N	2.72	0.46
1:B:700:ILE:O	1:B:703:GLY:N	2.49	0.46
4:B:2474:FMN:H1'2	4:B:2474:FMN:H9	1.57	0.46
1:C:214:ASN:O	1:C:1015:LYS:CE	2.53	0.46
1:C:357:ILE:HD11	1:C:400:LEU:HD21	1.98	0.46
1:C:452:GLN:NE2	1:C:764:THR:HG23	1.99	0.46
1:C:661:VAL:O	1:C:661:VAL:CG1	2.61	0.46
1:C:833:SER:OG	1:C:834:THR:N	2.49	0.46
1:C:850:ARG:O	1:C:853:PHE:HB2	2.16	0.46
1:C:1274:GLN:NE2	1:C:1293:ASN:HB3	2.30	0.46
1:D:102:TYR:HA	1:D:136:ASN:OD1	2.16	0.46
1:D:700:ILE:O	1:D:703:GLY:N	2.49	0.46
1:D:728:ILE:CD1	1:D:1047:MET:CE	2.74	0.46
1:D:833:SER:OG	1:D:834:THR:N	2.48	0.46
1:D:1219:ALA:HA	1:D:1229:MET:CE	2.45	0.46
1:E:260:MET:HA	1:E:263:LEU:HB2	1.98	0.46
1:E:357:ILE:HD11	1:E:400:LEU:HD21	1.98	0.46
1:E:491:LYS:HZ1	1:E:785:GLY:HA3	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:509:PRO:HA	1:E:510:PRO:HD3	1.81	0.46
1:E:555:PHE:HD1	1:E:556:ARG:N	2.14	0.46
1:E:558:MET:C	1:E:560:ASP:H	2.24	0.46
1:E:732:ARG:O	1:E:733:ALA:C	2.59	0.46
1:E:856:PRO:C	1:E:883:ASP:HB3	2.41	0.46
1:E:953:ILE:O	1:E:956:LEU:HB2	2.15	0.46
1:E:1195:ASN:HD21	1:E:1197:ARG:CZ	2.29	0.46
1:F:248:GLU:C	1:F:250:ARG:N	2.73	0.46
1:F:375:ASP:OD2	1:F:377:THR:CB	2.61	0.46
1:F:571:ALA:HB2	1:F:606:LEU:HD22	1.98	0.46
1:F:611:MET:HE3	1:F:611:MET:HB3	1.77	0.46
1:F:693:MET:HE3	1:F:693:MET:CA	2.39	0.46
1:F:1424:LEU:CD2	1:F:1428:ILE:HD11	2.46	0.46
1:F:1435:THR:HG23	1:F:1437:SER:HB2	1.98	0.46
2:G:28:PHE:N	2:G:28:PHE:CD1	2.84	0.46
2:G:290:LYS:CG	2:G:291:HIS:N	2.79	0.46
2:G:394:LEU:CD2	2:G:395:VAL:N	2.79	0.46
2:H:28:PHE:N	2:H:28:PHE:CD1	2.84	0.46
2:H:71:LEU:HD21	2:H:76:ARG:CA	2.46	0.46
2:H:203:ARG:HB3	2:H:203:ARG:NH2	2.31	0.46
2:I:93:ILE:HD11	2:I:195:LEU:CD2	2.30	0.46
2:I:181:ARG:CD	2:I:187:VAL:CG1	2.94	0.46
2:I:182:MET:HE1	2:I:216:PRO:HG3	1.94	0.46
2:I:228:GLU:O	2:I:231:ARG:HB3	2.16	0.46
2:I:449:LEU:CD2	2:I:451:VAL:CG1	2.89	0.46
2:I:449:LEU:CG	2:I:451:VAL:HG12	2.46	0.46
2:J:181:ARG:CD	2:J:187:VAL:CG1	2.94	0.46
2:J:208:ALA:HA	2:J:212:VAL:HG13	1.98	0.46
2:J:246:ARG:O	2:J:397:LYS:HE3	2.16	0.46
2:J:416:LYS:HZ2	2:J:433:ASN:HB2	1.79	0.46
2:K:63:ASN:CG	2:K:68:TRP:CZ3	2.94	0.46
2:K:63:ASN:HD21	2:K:83:VAL:HG12	1.79	0.46
2:K:91:PRO:HD2	2:K:203:ARG:HH21	1.78	0.46
2:K:91:PRO:HD2	2:K:203:ARG:HH22	1.76	0.46
2:K:317:LYS:NZ	2:K:390:VAL:HG11	2.31	0.46
2:K:331:GLN:OE1	2:K:332:ARG:HD3	2.15	0.46
2:K:375:THR:CG2	2:K:376:GLY:N	2.79	0.46
2:K:405:ASP:OD1	2:K:407:PRO:HG2	2.16	0.46
2:L:81:TYR:CD1	2:L:131:ALA:CB	2.99	0.46
2:L:90:PHE:CE1	2:L:160:LEU:CB	2.99	0.46
2:L:246:ARG:O	2:L:397:LYS:HE3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:317:LYS:CE	2:L:345:ILE:CD1	2.94	0.46
2:L:394:LEU:CD2	2:L:396:ILE:CD1	2.94	0.46
1:A:242:ASN:H	1:A:242:ASN:HD22	1.61	0.45
1:A:345:MET:CE	1:A:385:LEU:HB3	2.45	0.45
1:A:348:ASN:O	1:A:349:GLY:C	2.58	0.45
1:A:780:ARG:NH2	2:J:54:PHE:CD1	2.80	0.45
1:A:953:ILE:O	1:A:956:LEU:HB2	2.15	0.45
1:A:989:GLN:O	1:A:1245:ARG:HD3	2.16	0.45
1:A:1102:CYS:SG	1:A:1104:MET:N	2.89	0.45
1:A:1302:GLY:H	1:A:1333:ALA:C	2.24	0.45
1:B:317:ILE:C	1:B:321:ASN:HD22	2.18	0.45
1:B:732:ARG:O	1:B:733:ALA:C	2.58	0.45
1:B:978:GLU:H	1:B:978:GLU:HG2	1.21	0.45
1:B:984:ILE:O	1:B:988:LYS:HG3	2.16	0.45
1:B:1026:ASN:HB3	1:B:1043:LEU:N	2.32	0.45
1:B:1057:THR:HG22	1:B:1190:VAL:HG11	1.98	0.45
1:B:1077:ARG:O	1:B:1079:ILE:N	2.48	0.45
1:B:1236:ARG:C	1:B:1238:THR:N	2.70	0.45
1:C:24:ALA:C	1:C:26:LYS:H	2.23	0.45
1:C:554:GLU:OE2	1:C:697:LYS:HE3	2.17	0.45
1:C:1397:LEU:HD22	1:C:1453:LYS:HD2	1.98	0.45
1:D:266:VAL:HG12	1:D:266:VAL:O	2.15	0.45
1:D:612:GLY:O	1:D:762:HIS:HE1	1.99	0.45
1:D:1112:THR:O	2:H:112:GLN:CD	2.57	0.45
1:E:131:ILE:HG23	1:E:131:ILE:O	2.16	0.45
1:E:173:SER:HG	1:E:176:SER:H	1.62	0.45
1:E:746:ILE:CG2	1:E:747:SER:N	2.76	0.45
1:E:780:ARG:NH2	2:L:50:CYS:HG	2.09	0.45
1:F:102:TYR:HA	1:F:136:ASN:OD1	2.16	0.45
1:F:143:GLN:HE21	1:F:143:GLN:C	2.24	0.45
1:F:695:ASN:O	1:F:696:TYR:C	2.57	0.45
1:F:720:ARG:C	1:F:722:GLY:N	2.69	0.45
1:F:1221:PRO:CD	1:F:1229:MET:HE1	2.26	0.45
1:F:1438:ARG:CD	2:G:377:ARG:N	2.41	0.45
2:G:90:PHE:CE1	2:G:160:LEU:CB	2.99	0.45
2:G:240:THR:OG1	8:G:484:FAD:N7A	2.50	0.45
2:H:90:PHE:CE1	2:H:160:LEU:CB	2.99	0.45
2:H:240:THR:OG1	8:H:484:FAD:N7A	2.50	0.45
2:H:246:ARG:O	2:H:397:LYS:HE3	2.16	0.45
2:H:350:PRO:HG3	2:H:380:PRO:CA	2.47	0.45
2:H:375:THR:CG2	2:H:376:GLY:N	2.79	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:141:THR:HB	2:I:142:PRO:CD	2.40	0.45
2:I:394:LEU:CD2	2:I:395:VAL:N	2.79	0.45
2:J:197:LYS:HZ3	2:J:275:ASP:HB3	1.78	0.45
2:J:207:LEU:CD1	2:J:212:VAL:CG1	2.94	0.45
2:J:409:ALA:O	2:J:412:GLU:HB2	2.16	0.45
2:J:416:LYS:CE	2:J:433:ASN:HB2	2.45	0.45
2:J:449:LEU:CD2	2:J:452:TRP:CG	2.93	0.45
2:K:64:ASN:OD1	2:K:66:PRO:HD2	2.15	0.45
2:K:81:TYR:HD1	2:K:128:ASN:HA	1.81	0.45
2:K:90:PHE:O	2:K:93:ILE:HG23	2.16	0.45
2:K:145:GLU:OE2	2:K:468:ALA:HB1	2.17	0.45
2:K:350:PRO:HB3	2:K:372:ALA:HB1	1.97	0.45
2:K:443:ILE:HD12	2:K:443:ILE:C	2.41	0.45
2:L:109:VAL:O	2:L:112:GLN:HG2	2.09	0.45
2:L:203:ARG:HB3	2:L:203:ARG:NH2	2.31	0.45
2:L:319:LEU:C	2:L:319:LEU:HD22	2.40	0.45
1:A:81:ILE:HD13	1:B:216:PHE:CE1	2.50	0.45
1:A:256:PHE:O	1:A:257:GLY:C	2.56	0.45
1:A:479:MET:HB3	1:A:1106:ARG:NH1	2.31	0.45
1:A:545:LEU:HD23	1:A:545:LEU:HA	1.19	0.45
1:A:608:ASP:O	1:A:611:MET:N	2.44	0.45
1:A:857:GLY:N	1:A:883:ASP:HB3	2.31	0.45
1:A:1009:ILE:O	1:A:1010:ALA:C	2.59	0.45
1:A:1349:ARG:CG	1:A:1349:ARG:NH1	2.75	0.45
1:B:147:ASP:O	1:B:151:ILE:HG13	2.15	0.45
1:B:173:SER:HG	1:B:176:SER:H	1.64	0.45
1:B:304:THR:HG21	1:B:518:ARG:HD2	1.98	0.45
1:B:1435:THR:HG23	1:B:1437:SER:HB2	1.98	0.45
1:C:227:MET:CE	1:C:282:GLU:CG	2.88	0.45
1:C:345:MET:CE	1:C:385:LEU:HB3	2.45	0.45
1:C:454:PHE:N	1:C:454:PHE:CD1	2.81	0.45
1:C:603:HIS:N	1:C:640:THR:CG2	2.79	0.45
1:C:1149:ILE:O	1:C:1149:ILE:HG22	2.12	0.45
1:C:1264:ILE:HG22	1:C:1284:ILE:HA	1.99	0.45
1:C:1384:ALA:O	1:C:1385:ALA:C	2.57	0.45
1:C:1416:GLU:OE1	1:C:1471:HIS:CD2	2.70	0.45
1:C:1450:GLU:O	1:C:1451:VAL:C	2.57	0.45
1:D:696:TYR:CZ	1:D:700:ILE:HD11	2.52	0.45
1:D:918:THR:HG23	1:D:1256:MET:SD	2.56	0.45
1:E:179:TYR:HD2	1:E:192:TYR:CD2	2.34	0.45
1:E:292:PRO:O	1:E:293:MET:C	2.55	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:350:LEU:HD23	1:E:350:LEU:HA	1.56	0.45
1:E:376:GLU:O	1:E:378:GLN:N	2.49	0.45
1:E:1047:MET:O	1:E:1048:GLY:C	2.56	0.45
1:E:1124:LEU:HA	1:E:1124:LEU:HD12	1.29	0.45
1:E:1201:LEU:HD12	1:E:1201:LEU:N	2.31	0.45
1:E:1230:GLN:C	1:E:1231:LEU:HD23	2.41	0.45
1:F:186:GLU:H	1:F:186:GLU:HG3	1.05	0.45
1:F:235:ASN:HD22	1:F:236:THR:H	1.61	0.45
1:F:266:VAL:HG12	1:F:266:VAL:O	2.15	0.45
1:F:317:ILE:HG22	1:F:321:ASN:ND2	2.27	0.45
1:F:492:TYR:CD1	1:F:492:TYR:C	2.94	0.45
1:F:824:GLN:NE2	1:F:824:GLN:HA	2.30	0.45
1:F:1026:ASN:HB3	1:F:1043:LEU:N	2.32	0.45
1:F:1114:PRO:HB2	1:F:1115:VAL:HG23	1.97	0.45
1:F:1219:ALA:HA	1:F:1229:MET:CE	2.45	0.45
1:F:1468:VAL:O	1:F:1469:PRO:C	2.57	0.45
2:G:317:LYS:CE	2:G:345:ILE:CD1	2.94	0.45
2:G:350:PRO:HG2	2:G:380:PRO:HA	1.98	0.45
2:H:141:THR:HB	2:H:142:PRO:CD	2.40	0.45
2:H:272:SER:O	2:H:273:LEU:HD13	2.16	0.45
2:H:317:LYS:NZ	2:H:390:VAL:HG11	2.31	0.45
2:H:324:ARG:HA	2:H:346:TRP:CZ2	2.46	0.45
2:H:350:PRO:HB3	2:H:372:ALA:HB1	1.97	0.45
2:I:100:GLN:HB3	2:I:105:GLU:CD	2.41	0.45
2:I:362:VAL:HG12	2:I:362:VAL:O	2.15	0.45
2:J:88:ASN:OD1	2:J:91:PRO:HA	2.16	0.45
2:J:317:LYS:CE	2:J:345:ILE:HG13	2.47	0.45
2:J:432:THR:CG2	2:J:433:ASN:N	2.78	0.45
2:K:145:GLU:O	2:K:145:GLU:HG2	2.12	0.45
2:K:240:THR:OG1	8:K:484:FAD:N7A	2.50	0.45
2:K:272:SER:O	2:K:273:LEU:HD13	2.16	0.45
2:L:317:LYS:CE	2:L:345:ILE:HG13	2.47	0.45
2:L:317:LYS:NZ	2:L:390:VAL:HG11	2.31	0.45
2:L:362:VAL:O	2:L:362:VAL:HG12	2.15	0.45
2:L:423:LEU:CD2	2:L:423:LEU:H	2.25	0.45
1:A:5:PHE:CE2	1:A:365:GLY:HA3	2.50	0.45
1:A:240:ASN:O	1:A:241:VAL:C	2.58	0.45
1:A:260:MET:HA	1:A:263:LEU:HB2	1.98	0.45
1:A:266:VAL:HG12	1:A:266:VAL:O	2.16	0.45
1:A:636:LEU:HA	1:A:636:LEU:HD12	1.61	0.45
1:A:778:PHE:HE2	1:A:1039:LYS:HD2	1.66	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:877:ARG:CG	1:C:1229:MET:C	2.89	0.45
1:A:970:PRO:O	1:A:970:PRO:CG	2.60	0.45
1:A:974:ILE:O	1:A:974:ILE:HG22	2.16	0.45
1:A:1394:VAL:HG11	1:A:1401:LEU:HD23	1.98	0.45
1:B:426:LEU:HD23	1:B:543:LEU:HB3	1.93	0.45
1:B:1468:VAL:HG12	1:B:1469:PRO:O	2.17	0.45
1:C:489:SER:OG	1:C:490:ASP:N	2.48	0.45
1:C:536:ASP:OD1	1:C:538:THR:N	2.49	0.45
1:C:558:MET:C	1:C:560:ASP:N	2.72	0.45
1:C:787:ARG:NH1	1:C:821:PRO:HB2	2.24	0.45
1:C:914:ARG:HH22	1:C:973:ASP:CG	2.23	0.45
1:C:985:TYR:CE1	1:C:1207:VAL:HG11	2.52	0.45
1:D:143:GLN:C	1:D:143:GLN:HE21	2.24	0.45
1:D:487:VAL:HG13	1:D:498:PHE:HE2	1.81	0.45
1:D:572:THR:HG23	1:D:616:ALA:O	2.15	0.45
1:D:632:ILE:HD12	1:D:632:ILE:HG23	1.66	0.45
1:D:790:TRP:CZ2	1:D:1074:LYS:HG2	2.51	0.45
1:D:806:SER:OG	1:D:809:THR:CB	2.64	0.45
1:D:1010:ALA:HB2	1:D:1052:VAL:HG22	1.97	0.45
1:D:1131:THR:HG22	1:D:1133:GLU:CA	2.46	0.45
1:E:197:ASP:OD1	1:E:199:ARG:N	2.38	0.45
1:E:359:THR:CG2	1:E:378:GLN:CA	2.95	0.45
1:E:459:GLU:O	1:E:463:LEU:CB	2.59	0.45
1:E:491:LYS:HZ2	1:E:785:GLY:HA3	1.80	0.45
1:E:500:ARG:NH2	1:E:1041:ALA:O	2.48	0.45
1:F:487:VAL:HG13	1:F:498:PHE:HE2	1.81	0.45
1:F:495:LEU:HA	1:F:495:LEU:HD12	1.36	0.45
1:F:745:ARG:C	1:F:746:ILE:HG13	2.40	0.45
1:F:824:GLN:NE2	1:F:824:GLN:CA	2.78	0.45
1:F:984:ILE:O	1:F:988:LYS:HG3	2.16	0.45
1:F:1062:ARG:HH11	1:F:1062:ARG:HD3	1.40	0.45
1:F:1080:VAL:HG11	1:F:1084:MET:HE3	1.95	0.45
1:F:1170:GLN:OE1	1:F:1183:LEU:HB2	2.16	0.45
1:F:1470:VAL:O	1:F:1470:VAL:CG1	2.56	0.45
2:G:63:ASN:CG	2:G:68:TRP:CZ3	2.94	0.45
2:G:207:LEU:CD1	2:G:212:VAL:CG1	2.94	0.45
2:G:362:VAL:HG12	2:G:362:VAL:O	2.15	0.45
2:G:409:ALA:O	2:G:412:GLU:HB2	2.16	0.45
2:G:472:ALA:O	2:G:473:GLU:HB3	2.15	0.45
2:H:30:GLU:OE2	2:H:32:TYR:HB2	2.16	0.45
2:H:90:PHE:O	2:H:93:ILE:HG23	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:100:GLN:HB3	2:H:105:GLU:CD	2.41	0.45
2:H:186:LEU:HD23	2:H:195:LEU:CD1	2.47	0.45
2:H:317:LYS:CE	2:H:345:ILE:HG13	2.47	0.45
2:H:350:PRO:HG2	2:H:380:PRO:HA	1.98	0.45
2:H:443:ILE:CD1	2:H:444:VAL:HG23	2.47	0.45
2:I:89:ASN:HD22	2:I:89:ASN:H	1.64	0.45
2:I:90:PHE:CE1	2:I:160:LEU:CB	3.00	0.45
2:I:215:HIS:CD2	2:I:218:PHE:HD1	2.35	0.45
2:I:240:THR:OG1	8:I:484:FAD:N7A	2.50	0.45
2:I:257:ASN:HD22	2:I:364:ALA:CB	2.29	0.45
2:I:430:LYS:HD2	2:I:459:ASP:OD1	2.17	0.45
2:I:443:ILE:HD12	2:I:443:ILE:C	2.41	0.45
2:J:71:LEU:HD21	2:J:76:ARG:CA	2.46	0.45
2:J:145:GLU:OE2	2:J:468:ALA:HB1	2.17	0.45
2:J:272:SER:O	2:J:273:LEU:HD13	2.16	0.45
2:K:88:ASN:OD1	2:K:91:PRO:HA	2.16	0.45
2:K:96:ARG:NH2	2:K:199:VAL:HG21	2.31	0.45
2:K:362:VAL:HG12	2:K:362:VAL:O	2.15	0.45
2:K:415:LEU:HD11	2:K:423:LEU:CB	2.47	0.45
2:L:88:ASN:OD1	2:L:91:PRO:HA	2.16	0.45
2:L:272:SER:O	2:L:273:LEU:HD13	2.16	0.45
1:A:52:GLN:NE2	1:A:71:LEU:HB2	2.27	0.45
1:A:59:VAL:HG12	1:A:60:LYS:N	2.32	0.45
1:A:131:ILE:HG23	1:A:131:ILE:O	2.16	0.45
1:A:253:HIS:ND1	1:A:254:PRO:CG	2.71	0.45
1:A:357:ILE:HD11	1:A:400:LEU:HD21	1.98	0.45
1:A:842:GLU:HG2	1:A:1156:ARG:HH11	1.80	0.45
1:A:985:TYR:CE1	1:A:1207:VAL:HG11	2.52	0.45
1:A:1113:CYS:C	1:A:1115:VAL:N	2.71	0.45
1:A:1264:ILE:HG22	1:A:1284:ILE:HA	1.99	0.45
1:A:1383:PHE:O	1:A:1384:ALA:HB3	2.15	0.45
1:B:143:GLN:HE21	1:B:143:GLN:C	2.24	0.45
1:B:290:THR:HG22	1:B:292:PRO:N	2.31	0.45
1:B:513:SER:CA	1:B:520:MET:HE2	2.47	0.45
1:B:790:TRP:CZ2	1:B:1074:LYS:HG2	2.51	0.45
1:B:825:LEU:O	1:B:826:ARG:C	2.59	0.45
1:B:1016:ALA:O	1:B:1017:ASN:HB2	2.17	0.45
1:B:1058:LEU:HA	1:B:1058:LEU:HD23	1.63	0.45
1:C:56:LYS:HE2	1:C:67:PRO:O	2.17	0.45
1:C:240:ASN:O	1:C:241:VAL:C	2.58	0.45
1:C:582:LEU:CB	1:C:755:GLN:HE21	2.30	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:657:VAL:HG12	1:C:658:LEU:N	2.30	0.45
1:C:856:PRO:C	1:C:883:ASP:HB3	2.41	0.45
1:C:877:ARG:CG	1:E:1229:MET:C	2.89	0.45
1:C:1440:ALA:O	1:C:1441:ALA:C	2.59	0.45
1:D:228:LEU:HD22	1:D:278:ASP:HA	1.98	0.45
1:D:414:LYS:HB3	1:D:415:PRO:CD	2.47	0.45
1:D:417:ASP:HA	1:D:420:VAL:CG1	2.45	0.45
1:D:807:TYR:OH	1:D:1148:GLU:OE2	2.31	0.45
1:D:848:ALA:O	1:D:849:ILE:C	2.54	0.45
1:D:1026:ASN:HB3	1:D:1043:LEU:N	2.32	0.45
1:D:1057:THR:HG22	1:D:1190:VAL:HG11	1.98	0.45
1:D:1057:THR:HG22	1:D:1058:LEU:N	2.22	0.45
1:D:1061:LEU:O	1:D:1064:ARG:HB2	2.15	0.45
1:E:10:ASP:OD1	1:E:10:ASP:C	2.59	0.45
1:E:203:ASP:OD1	1:E:203:ASP:N	2.45	0.45
1:E:313:HIS:CD2	1:E:313:HIS:N	2.83	0.45
1:E:479:MET:HB3	1:E:1106:ARG:NH1	2.31	0.45
1:E:521:SER:OG	1:E:522:LEU:N	2.45	0.45
1:E:833:SER:OG	1:E:834:THR:N	2.49	0.45
1:E:1005:GLY:O	1:E:1009:ILE:HD12	2.16	0.45
1:E:1084:MET:SD	1:E:1168:LEU:CD2	3.05	0.45
1:E:1264:ILE:HG22	1:E:1284:ILE:HA	1.98	0.45
1:E:1289:MET:CE	1:E:1289:MET:N	2.76	0.45
1:E:1440:ALA:O	1:E:1441:ALA:C	2.59	0.45
1:E:1450:GLU:O	1:E:1451:VAL:C	2.57	0.45
1:F:582:LEU:O	1:F:585:ALA:HB3	2.17	0.45
1:F:631:LEU:HD22	1:F:631:LEU:HA	1.74	0.45
1:F:790:TRP:CZ2	1:F:1074:LYS:HG2	2.51	0.45
1:F:798:LEU:O	1:F:801:ALA:HB3	2.16	0.45
1:F:825:LEU:O	1:F:826:ARG:C	2.59	0.45
1:F:875:MET:CE	1:F:1139:PHE:HE2	2.25	0.45
1:F:918:THR:HG23	1:F:1256:MET:SD	2.56	0.45
1:F:1077:ARG:C	1:F:1079:ILE:N	2.75	0.45
1:F:1094:THR:O	1:F:1097:LEU:HB2	2.17	0.45
2:G:100:GLN:HB3	2:G:105:GLU:CD	2.41	0.45
2:G:110:ILE:HB	2:G:115:HIS:HE1	1.81	0.45
2:G:317:LYS:NZ	2:G:390:VAL:HG11	2.31	0.45
2:I:90:PHE:O	2:I:93:ILE:HG23	2.16	0.45
2:I:295:LEU:HD21	2:I:319:LEU:CD1	2.46	0.45
2:I:321:ARG:HH11	2:I:322:ARG:NH1	2.14	0.45
2:I:331:GLN:HA	2:I:334:VAL:HG21	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:406:LEU:N	2:I:407:PRO:HD2	2.32	0.45
2:J:28:PHE:N	2:J:28:PHE:CD1	2.84	0.45
2:J:394:LEU:CD2	2:J:396:ILE:CD1	2.94	0.45
2:J:415:LEU:HD11	2:J:423:LEU:CB	2.47	0.45
2:K:49:GLN:HE22	2:K:69:LEU:CB	2.28	0.45
2:K:207:LEU:CD1	2:K:212:VAL:CG1	2.94	0.45
2:K:215:HIS:CD2	2:K:218:PHE:HD1	2.35	0.45
2:K:295:LEU:HD21	2:K:319:LEU:CD1	2.46	0.45
2:K:449:LEU:CG	2:K:451:VAL:HG12	2.46	0.45
2:L:179:TYR:HB3	2:L:181:ARG:HH12	1.81	0.45
2:L:186:LEU:HD23	2:L:195:LEU:CD1	2.47	0.45
2:L:230:ARG:CZ	2:L:434:MET:CE	2.95	0.45
2:L:418:THR:CA	2:L:424:LEU:CD2	2.95	0.45
2:L:430:LYS:HD2	2:L:459:ASP:OD1	2.17	0.45
1:A:387:PRO:HD2	1:A:1344:GLU:OE2	2.14	0.45
1:A:782:ARG:CB	2:J:52:VAL:HA	2.26	0.45
1:A:1084:MET:SD	1:A:1168:LEU:CD2	3.05	0.45
1:A:1112:THR:O	2:J:112:GLN:CD	2.60	0.45
1:B:629:THR:O	1:B:632:ILE:HB	2.15	0.45
1:B:731:SER:HA	1:B:747:SER:HB2	1.99	0.45
1:B:1132:PRO:O	1:B:1133:GLU:C	2.56	0.45
1:C:179:TYR:HD2	1:C:192:TYR:CD2	2.34	0.45
1:C:357:ILE:HD11	1:C:400:LEU:CD2	2.47	0.45
1:C:376:GLU:O	1:C:378:GLN:N	2.49	0.45
1:C:833:SER:HB3	1:C:1153:LEU:HD22	1.98	0.45
1:C:940:GLU:O	1:C:969:PRO:HA	2.15	0.45
1:C:1315:LEU:HB3	1:C:1320:ASN:ND2	2.31	0.45
1:D:312:ASN:HB2	1:D:411:ALA:CB	2.46	0.45
1:D:375:ASP:OD2	1:D:377:THR:CB	2.61	0.45
1:D:413:LEU:O	1:D:414:LYS:HD2	2.16	0.45
1:D:670:LEU:HD23	1:D:670:LEU:HA	1.48	0.45
1:D:1212:ASP:OD1	1:D:1243:GLY:N	2.34	0.45
1:D:1432:VAL:HG12	1:D:1433:THR:N	2.31	0.45
1:D:1435:THR:HG23	1:D:1437:SER:HB2	1.98	0.45
1:E:57:ASP:O	1:E:60:LYS:HB2	2.15	0.45
1:E:225:PHE:HB3	1:E:278:ASP:CG	2.42	0.45
1:E:240:ASN:O	1:E:241:VAL:C	2.58	0.45
1:E:520:MET:HE1	1:E:705:LEU:O	2.17	0.45
1:E:559:ARG:NH1	1:E:568:GLU:OE2	2.48	0.45
1:E:608:ASP:O	1:E:611:MET:N	2.44	0.45
1:E:782:ARG:C	1:E:784:SER:N	2.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:974:ILE:HG22	1:E:974:ILE:O	2.16	0.45
1:E:1102:CYS:SG	1:E:1104:MET:N	2.89	0.45
1:E:1226:GLY:O	1:E:1227:GLU:C	2.59	0.45
1:E:1435:THR:HG23	1:E:1437:SER:CB	2.47	0.45
1:F:125:ARG:HG3	1:F:219:TRP:CZ2	2.51	0.45
1:F:304:THR:HG21	1:F:518:ARG:HD2	1.99	0.45
1:F:414:LYS:HB3	1:F:415:PRO:CD	2.47	0.45
1:F:621:ILE:HG12	1:F:657:VAL:HG11	1.97	0.45
1:F:743:VAL:HG12	1:F:744:SER:N	2.30	0.45
1:F:1139:PHE:O	1:F:1140:THR:C	2.59	0.45
2:G:416:LYS:HZ2	2:G:416:LYS:HB2	1.81	0.45
2:G:418:THR:CA	2:G:424:LEU:CD2	2.95	0.45
2:G:423:LEU:CD2	2:G:423:LEU:H	2.25	0.45
2:G:423:LEU:CD2	2:G:423:LEU:N	2.80	0.45
2:H:145:GLU:OE2	2:H:468:ALA:HB1	2.17	0.45
2:H:449:LEU:CG	2:H:451:VAL:HG12	2.46	0.45
2:I:63:ASN:HD21	2:I:83:VAL:HG12	1.79	0.45
2:I:81:TYR:CD1	2:I:131:ALA:CB	2.99	0.45
2:I:91:PRO:HD2	2:I:203:ARG:HH21	1.78	0.45
2:I:110:ILE:HB	2:I:115:HIS:HE1	1.81	0.45
2:I:317:LYS:NZ	2:I:390:VAL:HG11	2.31	0.45
2:J:90:PHE:O	2:J:93:ILE:HG23	2.16	0.45
2:J:430:LYS:HD2	2:J:459:ASP:OD1	2.17	0.45
2:J:443:ILE:CD1	2:J:444:VAL:HG23	2.47	0.45
2:J:469:LYS:HZ2	2:J:476:VAL:HB	1.80	0.45
2:K:30:GLU:OE2	2:K:32:TYR:HB2	2.16	0.45
2:K:71:LEU:HD11	2:K:76:ARG:C	2.41	0.45
2:K:443:ILE:CD1	2:K:444:VAL:HG23	2.47	0.45
2:L:110:ILE:HB	2:L:115:HIS:HE1	1.81	0.45
2:L:240:THR:OG1	8:L:484:FAD:N7A	2.50	0.45
2:L:322:ARG:CD	2:L:349:ALA:CB	2.94	0.45
2:L:443:ILE:CD1	2:L:444:VAL:HG23	2.47	0.45
1:A:30:HIS:N	1:A:30:HIS:CD2	2.85	0.45
1:A:52:GLN:O	1:A:56:LYS:HB2	2.16	0.45
1:A:110:VAL:HG12	1:A:111:PRO:O	2.17	0.45
1:A:248:GLU:O	1:A:249:THR:C	2.56	0.45
1:A:250:ARG:NH2	1:A:639:PHE:CE1	2.79	0.45
1:A:1210:THR:O	1:A:1211:LEU:C	2.60	0.45
1:A:1222:LEU:N	1:A:1229:MET:HE2	2.30	0.45
1:B:414:LYS:HB3	1:B:415:PRO:CD	2.47	0.45
1:B:643:ASN:HB3	1:B:665:THR:HG22	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:693:MET:HA	1:B:693:MET:CE	2.27	0.45
1:B:798:LEU:O	1:B:801:ALA:HB3	2.16	0.45
1:B:1094:THR:O	1:B:1097:LEU:HB2	2.17	0.45
1:B:1432:VAL:HG12	1:B:1433:THR:N	2.31	0.45
1:B:1438:ARG:CD	2:H:377:ARG:N	2.41	0.45
1:C:216:PHE:HA	1:C:217:PRO:HD3	1.73	0.45
1:C:295:LYS:HE2	1:C:299:VAL:HG11	1.98	0.45
1:C:295:LYS:HZ1	1:C:299:VAL:HG12	1.76	0.45
1:C:520:MET:HE3	1:C:705:LEU:CD1	2.47	0.45
1:C:763:ALA:O	1:C:764:THR:C	2.58	0.45
1:C:1430:GLU:O	1:C:1431:HIS:C	2.58	0.45
1:D:582:LEU:O	1:D:585:ALA:HB3	2.17	0.45
1:D:732:ARG:O	1:D:733:ALA:C	2.59	0.45
1:D:787:ARG:H	1:D:787:ARG:HG3	1.23	0.45
1:D:1075:THR:HG22	1:D:1076:GLY:N	2.31	0.45
1:D:1201:LEU:HD22	1:D:1201:LEU:N	2.32	0.45
1:D:1424:LEU:CD2	1:D:1428:ILE:HD11	2.46	0.45
1:E:449:ARG:HD3	1:E:765:ALA:O	2.17	0.45
1:E:687:MET:HA	1:E:688:PRO:HD3	1.83	0.45
1:E:992:PRO:HA	1:E:1204:ARG:NH2	2.32	0.45
1:E:1009:ILE:O	1:E:1010:ALA:C	2.59	0.45
1:E:1302:GLY:H	1:E:1333:ALA:C	2.24	0.45
1:F:230:HIS:HE1	1:F:234:ILE:HG13	1.82	0.45
1:F:413:LEU:O	1:F:414:LYS:HD2	2.16	0.45
1:F:787:ARG:O	1:F:788:HIS:ND1	2.49	0.45
1:F:1043:LEU:O	1:F:1044:PRO:C	2.58	0.45
2:G:30:GLU:OE2	2:G:32:TYR:HB2	2.16	0.45
2:G:81:TYR:CD1	2:G:131:ALA:CB	2.99	0.45
2:G:186:LEU:HD23	2:G:195:LEU:CD1	2.47	0.45
2:G:230:ARG:CZ	2:G:434:MET:CE	2.95	0.45
2:G:367:ILE:HD12	2:G:369:LEU:HD11	1.93	0.45
2:H:230:ARG:NE	2:H:434:MET:HE1	2.32	0.45
2:H:447:ALA:HB1	2:H:452:TRP:CD2	2.50	0.45
2:I:145:GLU:O	2:I:145:GLU:HG2	2.12	0.45
2:I:317:LYS:CE	2:I:345:ILE:HG13	2.47	0.45
2:J:89:ASN:HD22	2:J:89:ASN:H	1.64	0.45
2:J:161:ALA:CB	2:J:454:ILE:HG12	2.40	0.45
2:J:240:THR:OG1	8:J:484:FAD:N7A	2.50	0.45
2:J:249:LYS:CD	2:J:258:ILE:HD13	2.47	0.45
2:J:266:THR:HG23	2:J:270:LYS:HZ2	1.81	0.45
2:J:447:ALA:HB1	2:J:452:TRP:CD2	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:230:ARG:CZ	2:K:434:MET:CE	2.95	0.45
2:K:321:ARG:HH11	2:K:322:ARG:NH1	2.14	0.45
2:K:350:PRO:HG2	2:K:380:PRO:HA	1.98	0.45
2:K:409:ALA:O	2:K:412:GLU:HB2	2.16	0.45
2:K:423:LEU:CD2	2:K:423:LEU:N	2.80	0.45
2:L:257:ASN:HD22	2:L:364:ALA:CB	2.29	0.45
1:A:103:TYR:HD2	1:A:105:TYR:CE1	2.35	0.45
1:A:184:LEU:HB3	1:A:186:GLU:HG3	1.99	0.45
1:A:225:PHE:HB3	1:A:278:ASP:CG	2.42	0.45
1:A:520:MET:HE1	1:A:705:LEU:O	2.17	0.45
1:A:572:THR:HG21	1:A:615:ARG:HE	1.82	0.45
1:A:1170:GLN:O	1:A:1170:GLN:HG2	2.16	0.45
1:A:1440:ALA:O	1:A:1441:ALA:C	2.59	0.45
1:B:12:LYS:HA	1:B:13:PRO:HD3	1.75	0.45
1:B:1417:VAL:CG1	1:B:1419:HIS:H	2.28	0.45
1:C:184:LEU:HB3	1:C:186:GLU:HG3	1.99	0.45
1:C:248:GLU:OE2	1:C:266:VAL:N	2.44	0.45
1:C:253:HIS:CD2	1:C:254:PRO:HD2	2.40	0.45
1:C:479:MET:HB3	1:C:1106:ARG:NH1	2.31	0.45
1:C:495:LEU:HD12	1:C:495:LEU:HA	1.53	0.45
1:C:1084:MET:SD	1:C:1168:LEU:CD2	3.05	0.45
1:C:1101:GLY:O	1:C:1102:CYS:C	2.57	0.45
1:C:1210:THR:O	1:C:1211:LEU:C	2.60	0.45
1:C:1415:ILE:HG21	1:C:1421:GLU:CB	2.44	0.45
1:D:53:LYS:O	1:D:54:PHE:C	2.58	0.45
1:D:559:ARG:O	1:D:559:ARG:NE	2.46	0.45
1:D:629:THR:O	1:D:632:ILE:HB	2.15	0.45
1:D:826:ARG:NH1	1:D:826:ARG:CG	2.67	0.45
1:D:991:ASN:HA	1:D:992:PRO:HD2	1.83	0.45
1:D:1068:ARG:NH2	1:D:1089:GLU:OE1	2.46	0.45
1:D:1260:GLN:CD	1:F:899:ASN:HA	2.42	0.45
1:E:189:THR:CG2	1:E:190:THR:N	2.63	0.45
1:E:565:THR:HG22	1:E:565:THR:O	2.15	0.45
1:E:1170:GLN:HG2	1:E:1170:GLN:O	2.16	0.45
1:E:1222:LEU:N	1:E:1229:MET:HE2	2.30	0.45
1:E:1401:LEU:N	1:E:1402:PRO:CD	2.79	0.45
1:F:29:TRP:CD1	1:F:29:TRP:H	2.34	0.45
1:F:49:ALA:O	1:F:50:VAL:C	2.58	0.45
1:F:934:GLN:HE21	1:F:934:GLN:HB2	1.58	0.45
2:G:81:TYR:HD1	2:G:128:ASN:HA	1.81	0.45
2:G:88:ASN:OD1	2:G:91:PRO:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:269:ASN:HD22	2:G:273:LEU:CD2	2.30	0.45
2:G:295:LEU:HD21	2:G:319:LEU:CD1	2.46	0.45
2:G:406:LEU:N	2:G:407:PRO:HD2	2.32	0.45
2:G:443:ILE:CD1	2:G:444:VAL:HG23	2.47	0.45
2:G:449:LEU:CG	2:G:451:VAL:HG12	2.46	0.45
2:H:249:LYS:CD	2:H:258:ILE:HD13	2.47	0.45
2:H:295:LEU:HD21	2:H:319:LEU:CD1	2.46	0.45
2:H:409:ALA:O	2:H:412:GLU:HB2	2.16	0.45
2:I:269:ASN:HD22	2:I:273:LEU:CD2	2.30	0.45
2:J:145:GLU:O	2:J:145:GLU:HG2	2.12	0.45
2:J:230:ARG:NE	2:J:434:MET:HE1	2.32	0.45
2:J:321:ARG:HH11	2:J:322:ARG:NH1	2.14	0.45
2:J:449:LEU:CD2	2:J:451:VAL:CG1	2.89	0.45
2:K:71:LEU:HD21	2:K:76:ARG:CA	2.46	0.45
2:K:81:TYR:CD1	2:K:131:ALA:CB	2.99	0.45
2:K:90:PHE:CE1	2:K:160:LEU:CB	3.00	0.45
2:K:317:LYS:CE	2:K:345:ILE:HG13	2.47	0.45
2:K:371:VAL:CG2	2:K:386:SER:CB	2.94	0.45
2:L:350:PRO:HG3	2:L:380:PRO:HA	1.98	0.45
2:L:350:PRO:HG2	2:L:374:ALA:HA	1.99	0.45
2:L:449:LEU:CG	2:L:451:VAL:HG12	2.46	0.45
1:A:500:ARG:NH2	1:A:1041:ALA:O	2.48	0.45
1:A:902:ASN:OD1	1:A:902:ASN:C	2.60	0.45
1:A:1131:THR:HG22	1:A:1133:GLU:H	1.81	0.45
1:A:1415:ILE:HG21	1:A:1421:GLU:CB	2.44	0.45
1:A:1438:ARG:O	1:A:1441:ALA:N	2.49	0.45
1:B:416:TRP:O	1:B:419:TRP:HB2	2.16	0.45
1:B:695:ASN:O	1:B:696:TYR:C	2.57	0.45
1:B:1075:THR:HG22	1:B:1076:GLY:N	2.31	0.45
1:B:1170:GLN:OE1	1:B:1183:LEU:HB2	2.17	0.45
1:B:1329:TYR:HD1	1:B:1348:VAL:HG13	1.82	0.45
1:B:1366:GLU:CG	1:B:1367:TYR:CE2	3.00	0.45
1:C:225:PHE:HB3	1:C:278:ASP:CG	2.42	0.45
1:C:370:GLY:CA	1:C:1237:ASN:HB3	2.45	0.45
1:C:974:ILE:O	1:C:974:ILE:HG22	2.16	0.45
1:C:1170:GLN:O	1:C:1170:GLN:HG2	2.16	0.45
1:D:736:ALA:O	1:D:737:GLU:C	2.58	0.45
1:D:787:ARG:O	1:D:788:HIS:ND1	2.49	0.45
1:D:864:SER:HG	1:D:867:ALA:H	1.63	0.45
1:D:1094:THR:O	1:D:1097:LEU:HB2	2.17	0.45
1:D:1114:PRO:HB2	1:D:1115:VAL:HG23	1.97	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1143:ALA:O	1:D:1144:GLU:C	2.58	0.45
1:D:1452:THR:O	1:D:1452:THR:CG2	2.64	0.45
1:E:56:LYS:HE2	1:E:67:PRO:O	2.17	0.45
1:E:337:ASP:O	1:E:338:GLY:C	2.56	0.45
1:E:520:MET:HE3	1:E:705:LEU:CD1	2.47	0.45
1:E:780:ARG:CB	2:L:51:GLY:O	2.64	0.45
1:E:784:SER:HB3	1:E:785:GLY:H	1.66	0.45
1:E:937:LYS:CE	1:E:1033:SER:HB2	2.41	0.45
1:F:359:THR:HG23	1:F:378:GLN:O	2.16	0.45
1:F:570:ASP:OD1	1:F:570:ASP:C	2.59	0.45
1:F:656:ALA:O	1:F:657:VAL:C	2.59	0.45
1:F:696:TYR:CZ	1:F:700:ILE:HD11	2.52	0.45
1:F:777:GLY:CA	2:I:52:VAL:HG11	2.37	0.45
1:F:1201:LEU:HD22	1:F:1201:LEU:N	2.32	0.45
1:F:1452:THR:O	1:F:1452:THR:CG2	2.64	0.45
2:G:271:VAL:CG1	2:G:281:GLU:CG	2.95	0.45
2:G:317:LYS:CE	2:G:345:ILE:HG13	2.47	0.45
2:G:350:PRO:HG3	2:G:380:PRO:CA	2.47	0.45
2:G:394:LEU:CD2	2:G:396:ILE:CD1	2.94	0.45
2:G:424:LEU:HD13	2:G:424:LEU:HA	1.75	0.45
2:G:430:LYS:HD2	2:G:459:ASP:OD1	2.17	0.45
2:G:447:ALA:HB1	2:G:452:TRP:CD2	2.50	0.45
2:H:191:PRO:HB2	2:H:193:PHE:CE2	2.52	0.45
2:H:480:ALA:O	2:H:481:GLU:HB3	2.15	0.45
2:I:102:ARG:HG3	2:I:330:SER:OG	2.17	0.45
2:I:179:TYR:HB3	2:I:181:ARG:HH12	1.81	0.45
2:I:409:ALA:O	2:I:412:GLU:HB2	2.16	0.45
2:J:90:PHE:CE1	2:J:160:LEU:CB	2.99	0.45
2:J:93:ILE:HD11	2:J:195:LEU:CD2	2.30	0.45
2:J:148:LEU:HB3	2:J:234:VAL:HG23	1.98	0.45
2:J:269:ASN:HD22	2:J:273:LEU:CD2	2.30	0.45
2:J:353:PHE:CE1	2:J:370:GLY:C	2.95	0.45
2:L:51:GLY:O	2:L:52:VAL:HG23	2.16	0.45
2:L:321:ARG:HH11	2:L:322:ARG:NH1	2.14	0.45
2:L:430:LYS:CE	2:L:456:ASP:HB3	2.43	0.45
1:A:260:MET:HE2	1:A:260:MET:HB2	1.54	0.45
1:A:537:GLU:C	1:A:539:GLN:N	2.74	0.45
1:A:833:SER:OG	1:A:834:THR:N	2.49	0.45
1:B:1:CYS:HB3	3:B:2473:OMT:HE1	1.97	0.45
1:B:335:MET:HE3	1:B:335:MET:HB2	1.92	0.45
1:B:802:VAL:CG2	1:B:1137:ASN:HB2	2.46	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1080:VAL:O	1:B:1081:ILE:C	2.54	0.45
1:C:10:ASP:OD1	1:C:10:ASP:C	2.59	0.45
1:C:131:ILE:O	1:C:131:ILE:HG23	2.16	0.45
1:C:558:MET:C	1:C:560:ASP:H	2.24	0.45
1:C:608:ASP:O	1:C:611:MET:N	2.44	0.45
1:C:780:ARG:CB	2:K:51:GLY:O	2.64	0.45
1:C:897:ASP:OD1	1:C:899:ASN:N	2.50	0.45
1:C:1084:MET:SD	1:C:1168:LEU:HD21	2.57	0.45
1:C:1112:THR:O	2:K:112:GLN:CD	2.60	0.45
1:C:1302:GLY:H	1:C:1333:ALA:C	2.24	0.45
1:C:1394:VAL:HG11	1:C:1401:LEU:HD23	1.98	0.45
1:C:1445:ASN:HB2	2:J:373:ASP:OD2	2.17	0.45
1:D:528:ASN:O	1:D:529:LEU:HD23	2.17	0.45
1:D:571:ALA:HB2	1:D:606:LEU:HD22	1.98	0.45
1:D:695:ASN:O	1:D:696:TYR:C	2.57	0.45
1:D:701:ASP:C	1:D:703:GLY:N	2.69	0.45
1:E:360:ASP:OD1	1:E:360:ASP:N	2.49	0.45
1:E:375:ASP:O	1:E:376:GLU:C	2.60	0.45
1:E:852:ARG:NH1	1:E:1088:GLU:O	2.50	0.45
1:E:1366:GLU:HG2	1:E:1367:TYR:CE2	2.47	0.45
1:E:1384:ALA:O	1:E:1385:ALA:C	2.57	0.45
1:F:700:ILE:O	1:F:703:GLY:N	2.49	0.45
1:F:787:ARG:H	1:F:787:ARG:HG3	1.23	0.45
1:F:815:GLU:O	1:F:816:GLN:C	2.59	0.45
1:F:878:ILE:HG21	1:F:878:ILE:HD13	1.66	0.45
1:F:991:ASN:HA	1:F:992:PRO:HD2	1.83	0.45
1:F:1054:GLN:O	1:F:1055:VAL:C	2.60	0.45
1:F:1222:LEU:N	1:F:1229:MET:HE2	2.32	0.45
1:F:1468:VAL:HG12	1:F:1469:PRO:O	2.17	0.45
2:G:145:GLU:OE2	2:G:468:ALA:HB1	2.17	0.45
2:G:331:GLN:HA	2:G:334:VAL:HG21	1.98	0.45
2:H:302:MET:HE3	2:H:334:VAL:HA	1.99	0.45
2:H:305:VAL:HG22	2:H:316:VAL:CG1	2.47	0.45
2:H:406:LEU:N	2:H:407:PRO:HD2	2.32	0.45
2:H:426:ASP:O	2:H:430:LYS:HA	2.17	0.45
2:I:34:ARG:HG3	2:I:125:LYS:CE	2.46	0.45
2:I:77:LEU:CA	2:I:127:ILE:CD1	2.93	0.45
2:I:153:ILE:CG1	2:I:220:VAL:CG1	2.95	0.45
2:I:186:LEU:HD23	2:I:195:LEU:CD1	2.47	0.45
2:I:191:PRO:HB2	2:I:193:PHE:CE2	2.52	0.45
2:I:249:LYS:CD	2:I:258:ILE:HD13	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:365:VAL:HG22	2:I:366:ARG:CG	2.40	0.45
2:I:415:LEU:HD11	2:I:423:LEU:CB	2.47	0.45
2:J:81:TYR:CD1	2:J:131:ALA:CB	2.99	0.45
2:J:203:ARG:HB3	2:J:203:ARG:NH2	2.31	0.45
2:J:350:PRO:HG3	2:J:380:PRO:HA	1.98	0.45
2:J:350:PRO:HG2	2:J:374:ALA:HA	1.99	0.45
2:K:191:PRO:HB2	2:K:193:PHE:CE2	2.52	0.45
2:L:96:ARG:HE	2:L:199:VAL:HG21	1.82	0.45
2:L:351:GLU:CB	2:L:353:PHE:HB3	2.47	0.45
2:L:406:LEU:N	2:L:407:PRO:HD2	2.32	0.45
2:L:423:LEU:CD2	2:L:423:LEU:N	2.80	0.45
1:A:397:SER:O	1:A:398:GLY:C	2.58	0.45
1:A:660:GLY:HA2	1:A:721:GLY:N	2.32	0.45
1:A:1005:GLY:O	1:A:1009:ILE:HD12	2.16	0.45
1:A:1395:TYR:HE1	1:A:1397:LEU:HG	1.82	0.45
1:B:286:ARG:HD3	1:B:286:ARG:HA	1.55	0.45
1:B:571:ALA:HB2	1:B:606:LEU:HD22	1.98	0.45
1:B:582:LEU:O	1:B:585:ALA:HB3	2.17	0.45
1:B:671:ALA:O	1:B:675:ILE:HD12	2.17	0.45
1:B:1164:ARG:HB3	1:B:1167:LEU:CD1	2.47	0.45
1:B:1420:TYR:OH	1:B:1466:LEU:CD2	2.65	0.45
1:C:103:TYR:HD2	1:C:105:TYR:CE1	2.35	0.45
1:C:237:VAL:C	1:C:239:GLY:N	2.73	0.45
1:C:251:MET:HB2	1:C:533:LEU:CD1	2.43	0.45
1:C:555:PHE:HD1	1:C:556:ARG:N	2.15	0.45
1:C:588:ARG:HH11	1:C:588:ARG:HD3	1.59	0.45
1:C:852:ARG:NH1	1:C:1088:GLU:O	2.50	0.45
1:C:969:PRO:CD	1:C:970:PRO:HD2	2.46	0.45
1:C:992:PRO:HA	1:C:1204:ARG:NH2	2.32	0.45
1:D:1228:LYS:HB3	1:F:901:ASP:CG	2.41	0.45
1:D:1366:GLU:CG	1:D:1367:TYR:CE2	3.00	0.45
4:D:2474:FMN:HM83	4:D:2474:FMN:HM71	1.53	0.45
1:E:6:ILE:HD13	1:E:20:LYS:HB2	1.99	0.45
1:E:98:LEU:HD23	1:E:98:LEU:HA	1.82	0.45
1:E:103:TYR:HD2	1:E:105:TYR:CE1	2.35	0.45
1:E:184:LEU:HB3	1:E:186:GLU:HG3	1.99	0.45
1:E:486:ALA:O	1:E:487:VAL:C	2.58	0.45
1:E:634:SER:O	1:E:635:ASN:HB2	2.16	0.45
1:E:1139:PHE:N	1:E:1139:PHE:HD1	2.16	0.45
1:E:1159:ASN:O	1:E:1161:VAL:N	2.50	0.45
1:E:1395:TYR:HE1	1:E:1397:LEU:HG	1.82	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:53:LYS:O	1:F:54:PHE:C	2.58	0.45
1:F:513:SER:CA	1:F:520:MET:HE2	2.47	0.45
1:F:1076:GLY:N	1:F:1145:GLU:OE2	2.49	0.45
1:F:1376:LEU:HD23	1:F:1376:LEU:HA	1.63	0.45
2:G:71:LEU:HD11	2:G:76:ARG:C	2.41	0.45
2:G:350:PRO:HG3	2:G:380:PRO:HA	1.98	0.45
2:H:317:LYS:CE	2:H:345:ILE:CD1	2.94	0.45
2:I:71:LEU:HD21	2:I:76:ARG:CA	2.46	0.45
2:I:71:LEU:HD11	2:I:76:ARG:C	2.41	0.45
2:I:302:MET:HE1	2:I:334:VAL:HA	1.99	0.45
2:I:443:ILE:CD1	2:I:444:VAL:HG23	2.47	0.45
2:J:292:VAL:HG22	2:J:394:LEU:CD1	2.30	0.45
2:J:418:THR:C	2:J:420:TRP:H	2.25	0.45
2:J:430:LYS:CE	2:J:456:ASP:HB3	2.43	0.45
2:K:34:ARG:HG3	2:K:125:LYS:CE	2.46	0.45
2:K:51:GLY:O	2:K:52:VAL:HG23	2.16	0.45
2:K:53:PRO:HD2	2:K:56:GLN:HE21	1.82	0.45
2:L:71:LEU:HD21	2:L:76:ARG:CA	2.46	0.45
2:L:100:GLN:HB3	2:L:105:GLU:CD	2.41	0.45
2:L:295:LEU:HD21	2:L:319:LEU:CD1	2.46	0.45
2:L:409:ALA:O	2:L:412:GLU:HB2	2.16	0.45
2:L:415:LEU:HD11	2:L:423:LEU:CB	2.47	0.45
2:L:418:THR:C	2:L:420:TRP:H	2.25	0.45
2:L:458:ARG:HB3	2:L:458:ARG:NH2	2.32	0.45
1:A:291:ALA:CB	1:A:292:PRO:HD3	2.31	0.44
1:A:555:PHE:HD1	1:A:556:ARG:N	2.14	0.44
1:A:565:THR:HG22	1:A:603:HIS:HD2	1.83	0.44
1:A:757:LYS:O	1:A:758:VAL:C	2.59	0.44
1:A:780:ARG:HH21	2:J:54:PHE:HD1	1.60	0.44
1:A:819:LYS:HD3	1:A:819:LYS:HA	1.73	0.44
1:A:896:PRO:HG3	1:C:1225:GLU:CB	2.45	0.44
1:A:991:ASN:OD1	1:A:991:ASN:C	2.60	0.44
1:A:1159:ASN:O	1:A:1161:VAL:N	2.51	0.44
1:A:1260:GLN:O	1:A:1261:PRO:C	2.60	0.44
4:A:2474:FMN:HM83	4:A:2474:FMN:HM71	1.69	0.44
1:B:186:GLU:H	1:B:186:GLU:HG3	1.05	0.44
1:B:359:THR:HG23	1:B:378:GLN:O	2.16	0.44
1:B:443:ASP:C	1:B:445:ALA:N	2.75	0.44
1:B:736:ALA:O	1:B:737:GLU:C	2.58	0.44
1:B:806:SER:OG	1:B:809:THR:CB	2.64	0.44
1:B:957:ARG:HD2	1:B:965:LEU:CD1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1068:ARG:HA	1:B:1089:GLU:O	2.17	0.44
1:B:1228:LYS:HB3	1:D:901:ASP:CG	2.41	0.44
1:B:1452:THR:O	1:B:1452:THR:CG2	2.64	0.44
1:B:1468:VAL:O	1:B:1469:PRO:C	2.57	0.44
1:C:6:ILE:HD13	1:C:20:LYS:HB2	1.99	0.44
1:C:359:THR:CG2	1:C:378:GLN:CA	2.95	0.44
1:C:510:PRO:CD	1:C:970:PRO:HB3	2.37	0.44
1:C:575:VAL:HG13	1:C:759:LEU:CD2	2.48	0.44
1:C:900:GLY:HA2	1:E:1263:HIS:CE1	2.31	0.44
1:C:1149:ILE:O	1:C:1149:ILE:CG2	2.59	0.44
1:D:30:HIS:HD2	1:D:31:ARG:H	1.65	0.44
1:D:957:ARG:NH2	5:D:2475:AKG:O4	2.40	0.44
1:D:984:ILE:O	1:D:988:LYS:HG3	2.16	0.44
1:D:1068:ARG:HA	1:D:1089:GLU:O	2.17	0.44
1:D:1124:LEU:HA	1:D:1124:LEU:HD12	1.30	0.44
1:D:1374:VAL:HG12	1:D:1375:ILE:N	2.32	0.44
1:D:1468:VAL:HG12	1:D:1469:PRO:O	2.17	0.44
1:E:110:VAL:HG12	1:E:111:PRO:O	2.17	0.44
1:E:197:ASP:OD2	1:E:199:ARG:NH2	2.50	0.44
1:E:309:THR:HB	1:E:314:LYS:HE3	1.99	0.44
1:E:357:ILE:HD11	1:E:400:LEU:CD2	2.47	0.44
1:E:452:GLN:NE2	1:E:764:THR:HG23	1.99	0.44
1:E:554:GLU:OE2	1:E:697:LYS:HE3	2.17	0.44
1:E:1249:MET:HE3	1:E:1249:MET:HB3	1.78	0.44
1:E:1445:ASN:HB2	2:K:373:ASP:OD2	2.17	0.44
1:E:1458:VAL:HA	1:E:1459:PRO:HD3	1.65	0.44
1:F:12:LYS:HA	1:F:13:PRO:HD3	1.75	0.44
1:F:100:PHE:O	1:F:137:LYS:CE	2.46	0.44
1:F:443:ASP:C	1:F:445:ALA:N	2.75	0.44
1:F:508:ASN:HB2	1:F:509:PRO:CD	2.47	0.44
1:F:1003:ARG:NH1	1:F:1004:SER:O	2.50	0.44
1:F:1068:ARG:HA	1:F:1089:GLU:O	2.17	0.44
2:H:281:GLU:HG3	2:H:281:GLU:O	2.17	0.44
2:H:350:PRO:HG2	2:H:374:ALA:HA	1.99	0.44
2:H:394:LEU:CD2	2:H:396:ILE:CD1	2.94	0.44
2:I:166:LEU:HD23	2:I:461:ALA:CB	2.36	0.44
2:I:203:ARG:HB3	2:I:203:ARG:NH2	2.31	0.44
2:I:215:HIS:HD2	2:I:218:PHE:HD1	1.65	0.44
2:I:272:SER:O	2:I:273:LEU:HD13	2.16	0.44
2:I:418:THR:CA	2:I:424:LEU:CD2	2.95	0.44
2:J:102:ARG:HG3	2:J:330:SER:OG	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:186:LEU:HD23	2:J:195:LEU:CD1	2.47	0.44
2:J:191:PRO:HB2	2:J:193:PHE:CE2	2.52	0.44
2:K:166:LEU:HD22	2:K:169:LYS:HE2	2.00	0.44
2:K:249:LYS:CD	2:K:258:ILE:HD13	2.47	0.44
2:K:302:MET:HE3	2:K:334:VAL:HA	1.99	0.44
2:K:350:PRO:HG3	2:K:380:PRO:CA	2.47	0.44
2:K:394:LEU:CD2	2:K:396:ILE:CD1	2.95	0.44
2:L:215:HIS:HD2	2:L:218:PHE:HD1	1.65	0.44
2:L:262:LEU:C	2:L:262:LEU:HD22	2.43	0.44
2:L:426:ASP:O	2:L:430:LYS:HA	2.17	0.44
1:A:183:PHE:HE1	1:A:188:LEU:HA	1.79	0.44
1:A:230:HIS:CD2	1:A:230:HIS:C	2.94	0.44
1:A:558:MET:C	1:A:560:ASP:H	2.24	0.44
1:A:897:ASP:OD1	1:A:899:ASN:N	2.50	0.44
1:A:900:GLY:C	1:C:1228:LYS:HB2	2.43	0.44
1:A:1084:MET:SD	1:A:1168:LEU:HD21	2.57	0.44
1:A:1113:CYS:C	1:A:1115:VAL:H	2.25	0.44
1:B:207:TYR:CD1	1:B:207:TYR:N	2.85	0.44
1:B:228:LEU:HD22	1:B:278:ASP:HA	1.98	0.44
1:B:290:THR:CG2	1:B:291:ALA:N	2.75	0.44
1:B:815:GLU:O	1:B:816:GLN:C	2.59	0.44
1:B:985:TYR:O	1:B:988:LYS:N	2.50	0.44
1:B:1374:VAL:HG12	1:B:1375:ILE:N	2.32	0.44
1:C:110:VAL:HG12	1:C:111:PRO:O	2.17	0.44
1:C:989:GLN:O	1:C:1245:ARG:HD3	2.16	0.44
1:C:1360:CYS:O	1:C:1361:GLY:O	2.35	0.44
1:D:78:LEU:HB3	1:D:79:PRO:CD	2.48	0.44
1:D:207:TYR:CD1	1:D:207:TYR:N	2.85	0.44
1:D:289:ARG:NH1	1:D:535:GLU:HB2	2.32	0.44
1:D:1006:ILE:HG23	1:D:1007:GLY:N	2.32	0.44
1:D:1099:ALA:C	1:D:1101:GLY:H	2.26	0.44
1:E:420:VAL:O	1:E:422:ASN:N	2.50	0.44
1:E:780:ARG:NH2	2:L:54:PHE:CD1	2.80	0.44
1:E:857:GLY:N	1:E:883:ASP:HB3	2.31	0.44
1:E:902:ASN:OD1	1:E:902:ASN:C	2.60	0.44
1:E:985:TYR:CE1	1:E:1207:VAL:HG11	2.52	0.44
1:E:987:LEU:HD23	1:E:987:LEU:HA	1.70	0.44
1:E:1003:ARG:HH11	1:E:1003:ARG:CG	2.29	0.44
1:E:1260:GLN:O	1:E:1261:PRO:C	2.60	0.44
1:F:336:THR:C	1:F:337:ASP:O	2.50	0.44
1:F:345:MET:HG3	1:F:346:ASP:N	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:620:ALA:O	1:F:621:ILE:C	2.60	0.44
1:F:1132:PRO:O	1:F:1133:GLU:C	2.56	0.44
1:F:1432:VAL:HG12	1:F:1433:THR:N	2.31	0.44
2:G:462:GLU:O	2:G:465:HIS:HB3	2.18	0.44
2:H:415:LEU:HD11	2:H:423:LEU:CB	2.47	0.44
2:H:430:LYS:HD2	2:H:459:ASP:OD1	2.17	0.44
2:I:28:PHE:CD1	2:I:28:PHE:N	2.84	0.44
2:I:31:ILE:HD11	2:I:194:LYS:HG2	2.00	0.44
2:I:96:ARG:HE	2:I:199:VAL:HG21	1.82	0.44
2:I:230:ARG:CZ	2:I:434:MET:CE	2.95	0.44
2:I:305:VAL:HG22	2:I:316:VAL:CG1	2.47	0.44
2:I:458:ARG:HB3	2:I:458:ARG:NH2	2.32	0.44
2:J:179:TYR:HB3	2:J:181:ARG:HH12	1.81	0.44
2:J:271:VAL:CG1	2:J:281:GLU:CG	2.95	0.44
2:J:295:LEU:HD21	2:J:319:LEU:CD1	2.46	0.44
2:J:302:MET:CE	2:J:334:VAL:CA	2.95	0.44
2:J:305:VAL:HG22	2:J:316:VAL:CG1	2.47	0.44
2:J:317:LYS:NZ	2:J:390:VAL:HG11	2.31	0.44
2:K:102:ARG:HG3	2:K:330:SER:OG	2.17	0.44
2:K:186:LEU:HD23	2:K:195:LEU:CD1	2.47	0.44
2:K:353:PHE:CE1	2:K:370:GLY:C	2.95	0.44
2:K:405:ASP:OD1	2:K:407:PRO:HD2	2.18	0.44
2:K:418:THR:CA	2:K:424:LEU:CD2	2.95	0.44
2:L:96:ARG:NH2	2:L:199:VAL:HG21	2.31	0.44
2:L:118:VAL:HG22	2:L:118:VAL:H	1.08	0.44
2:L:443:ILE:HD12	2:L:444:VAL:HG23	1.99	0.44
1:A:182:MET:CE	1:A:217:PRO:O	2.62	0.44
1:A:197:ASP:OD2	1:A:199:ARG:NH2	2.50	0.44
1:A:357:ILE:HD11	1:A:400:LEU:CD2	2.47	0.44
1:A:375:ASP:O	1:A:376:GLU:C	2.60	0.44
1:A:393:VAL:CG1	1:A:394:ASP:N	2.77	0.44
1:A:672:GLN:CG	1:A:693:MET:CE	2.79	0.44
1:A:1156:ARG:O	1:A:1157:SER:CB	2.62	0.44
1:A:1416:GLU:OE1	1:A:1471:HIS:CD2	2.70	0.44
1:B:175:ARG:NH1	1:B:175:ARG:CG	2.79	0.44
1:B:303:LEU:O	1:B:303:LEU:HG	2.17	0.44
1:B:466:HIS:CE1	1:B:684:PHE:HE1	2.33	0.44
1:B:782:ARG:HA	2:G:52:VAL:C	2.42	0.44
1:B:1006:ILE:HG23	1:B:1007:GLY:N	2.33	0.44
1:B:1210:THR:CG2	1:B:1211:LEU:H	2.07	0.44
1:B:1260:GLN:CD	1:D:899:ASN:HA	2.42	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:197:ASP:OD2	1:C:199:ARG:NH2	2.50	0.44
1:C:307:GLN:HB2	1:C:1403:LEU:HD22	1.99	0.44
1:C:353:MET:HA	1:C:366:GLY:O	2.18	0.44
1:C:449:ARG:HD3	1:C:765:ALA:O	2.17	0.44
1:C:857:GLY:N	1:C:883:ASP:HB3	2.31	0.44
1:C:902:ASN:C	1:C:902:ASN:OD1	2.60	0.44
1:C:1161:VAL:O	1:C:1161:VAL:HG13	2.18	0.44
1:C:1315:LEU:HA	1:C:1315:LEU:HD23	1.62	0.44
1:C:1435:THR:HG23	1:C:1437:SER:CB	2.47	0.44
1:D:1003:ARG:NH1	1:D:1004:SER:O	2.50	0.44
1:D:1016:ALA:O	1:D:1017:ASN:HB2	2.17	0.44
1:E:805:ASP:OD1	1:E:805:ASP:C	2.59	0.44
1:E:833:SER:HB3	1:E:1153:LEU:HD22	1.97	0.44
1:E:1416:GLU:OE1	1:E:1471:HIS:CD2	2.70	0.44
1:E:1440:ALA:O	1:E:1443:ILE:N	2.42	0.44
1:F:209:GLN:HG3	1:F:210:ARG:H	1.80	0.44
1:F:289:ARG:NH1	1:F:535:GLU:HB2	2.33	0.44
1:F:303:LEU:O	1:F:303:LEU:HG	2.17	0.44
1:F:643:ASN:HB3	1:F:665:THR:HG22	1.98	0.44
1:F:670:LEU:HD23	1:F:670:LEU:HA	1.48	0.44
1:F:671:ALA:O	1:F:675:ILE:HD12	2.17	0.44
1:F:705:LEU:HD23	1:F:705:LEU:HA	1.18	0.44
1:F:782:ARG:HA	2:I:52:VAL:C	2.42	0.44
1:F:806:SER:OG	1:F:809:THR:CB	2.64	0.44
1:F:928:LEU:HD23	1:F:928:LEU:HA	1.65	0.44
1:F:986:ASP:O	1:F:987:LEU:C	2.56	0.44
1:F:1131:THR:HG22	1:F:1133:GLU:CA	2.46	0.44
1:F:1143:ALA:O	1:F:1144:GLU:C	2.58	0.44
2:G:53:PRO:CG	2:G:56:GLN:HG2	2.13	0.44
2:G:54:PHE:CB	2:G:107:ASN:HB3	2.39	0.44
2:G:93:ILE:HD11	2:G:195:LEU:CD2	2.30	0.44
2:G:144:ARG:CG	2:G:145:GLU:N	2.81	0.44
2:G:146:LEU:N	2:G:146:LEU:CD2	2.81	0.44
2:G:153:ILE:CG1	2:G:220:VAL:CG1	2.95	0.44
2:G:175:VAL:HG13	2:G:175:VAL:O	2.18	0.44
2:G:262:LEU:C	2:G:262:LEU:HD22	2.43	0.44
2:G:321:ARG:HH11	2:G:322:ARG:NH1	2.14	0.44
2:G:322:ARG:CD	2:G:349:ALA:CB	2.94	0.44
2:G:415:LEU:HD11	2:G:423:LEU:CB	2.47	0.44
2:G:443:ILE:HD12	2:G:444:VAL:HG23	1.99	0.44
2:H:53:PRO:HD2	2:H:56:GLN:HE21	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:81:TYR:CD1	2:H:131:ALA:CB	2.99	0.44
2:H:146:LEU:N	2:H:146:LEU:CD2	2.81	0.44
2:H:175:VAL:HG13	2:H:175:VAL:O	2.18	0.44
2:H:197:LYS:CD	2:H:275:ASP:H	2.30	0.44
2:H:215:HIS:CD2	2:H:218:PHE:HD1	2.35	0.44
2:H:353:PHE:CE1	2:H:370:GLY:C	2.95	0.44
2:H:458:ARG:HB3	2:H:458:ARG:NH2	2.32	0.44
2:I:353:PHE:CE1	2:I:370:GLY:C	2.95	0.44
2:I:418:THR:C	2:I:420:TRP:H	2.25	0.44
2:J:31:ILE:HD11	2:J:194:LYS:HG2	2.00	0.44
2:J:141:THR:HB	2:J:142:PRO:CD	2.40	0.44
2:J:175:VAL:HG13	2:J:175:VAL:O	2.18	0.44
2:J:197:LYS:CD	2:J:275:ASP:H	2.30	0.44
2:J:230:ARG:CZ	2:J:434:MET:CE	2.95	0.44
2:J:406:LEU:N	2:J:407:PRO:HD2	2.32	0.44
2:J:454:ILE:CD1	2:J:458:ARG:HG2	2.48	0.44
2:K:100:GLN:HB3	2:K:105:GLU:CD	2.41	0.44
2:K:426:ASP:O	2:K:430:LYS:HA	2.17	0.44
2:L:71:LEU:HD11	2:L:76:ARG:C	2.41	0.44
2:L:145:GLU:OE2	2:L:468:ALA:HB1	2.17	0.44
2:L:271:VAL:CG1	2:L:281:GLU:CG	2.95	0.44
2:L:353:PHE:CE1	2:L:370:GLY:C	2.95	0.44
1:A:449:ARG:HD3	1:A:765:ALA:O	2.17	0.44
1:A:459:GLU:O	1:A:463:LEU:CB	2.59	0.44
1:A:485:ILE:O	1:A:486:ALA:C	2.60	0.44
1:A:559:ARG:HD2	1:A:605:ILE:CD1	2.48	0.44
1:A:648:GLU:HG2	1:A:654:TYR:CE1	2.53	0.44
1:A:964:MET:O	1:A:965:LEU:HD23	2.18	0.44
1:A:992:PRO:HA	1:A:1204:ARG:NH2	2.32	0.44
1:A:1139:PHE:N	1:A:1139:PHE:CD1	2.86	0.44
1:A:1401:LEU:N	1:A:1402:PRO:CD	2.79	0.44
1:B:196:LEU:HD23	1:B:196:LEU:HA	1.55	0.44
1:B:899:ASN:HA	1:F:1260:GLN:CD	2.42	0.44
1:B:957:ARG:NH2	5:B:2475:AKG:O4	2.40	0.44
1:B:964:MET:O	1:B:965:LEU:HD23	2.18	0.44
1:B:1080:VAL:HG11	1:B:1084:MET:HE3	1.95	0.44
1:B:1143:ALA:O	1:B:1146:VAL:N	2.47	0.44
1:B:1201:LEU:HD22	1:B:1201:LEU:N	2.32	0.44
1:B:1346:PHE:O	1:B:1347:ALA:HB3	2.17	0.44
1:C:81:ILE:HD13	1:D:216:PHE:CZ	2.53	0.44
1:C:204:PHE:CD2	1:C:204:PHE:C	2.94	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:309:THR:HG22	1:C:310:PRO:O	2.17	0.44
1:C:485:ILE:HG21	1:C:485:ILE:HD13	1.72	0.44
1:C:520:MET:HE1	1:C:705:LEU:O	2.17	0.44
1:C:648:GLU:HG2	1:C:654:TYR:CE1	2.53	0.44
1:C:960:THR:CG2	1:C:963:VAL:HG23	2.21	0.44
1:C:1260:GLN:O	1:C:1261:PRO:C	2.60	0.44
1:D:165:ASN:O	1:D:166:ASP:HB2	2.18	0.44
1:D:304:THR:HG21	1:D:518:ARG:HD2	1.99	0.44
1:D:1420:TYR:OH	1:D:1466:LEU:CD2	2.65	0.44
1:D:1447:TRP:O	1:D:1450:GLU:N	2.51	0.44
1:E:24:ALA:O	1:E:27:ALA:N	2.27	0.44
1:E:498:PHE:H	1:E:498:PHE:HD1	1.64	0.44
1:E:537:GLU:C	1:E:539:GLN:N	2.74	0.44
1:E:1113:CYS:C	1:E:1115:VAL:H	2.25	0.44
1:F:165:ASN:O	1:F:166:ASP:CB	2.65	0.44
1:F:165:ASN:O	1:F:166:ASP:HB2	2.18	0.44
1:F:500:ARG:NH2	1:F:1039:LYS:O	2.50	0.44
1:F:751:LEU:HA	1:F:751:LEU:HD23	1.49	0.44
1:F:985:TYR:O	1:F:988:LYS:N	2.50	0.44
2:G:96:ARG:HE	2:G:199:VAL:HG21	1.82	0.44
2:G:148:LEU:HB3	2:G:234:VAL:HG23	1.98	0.44
2:G:215:HIS:HD2	2:G:218:PHE:HD1	1.65	0.44
2:G:418:THR:C	2:G:420:TRP:H	2.25	0.44
2:G:426:ASP:O	2:G:430:LYS:HA	2.17	0.44
2:G:458:ARG:HB3	2:G:458:ARG:NH2	2.33	0.44
2:H:230:ARG:CZ	2:H:434:MET:CE	2.95	0.44
2:H:321:ARG:HH11	2:H:322:ARG:NH1	2.14	0.44
2:H:418:THR:C	2:H:420:TRP:H	2.25	0.44
2:H:443:ILE:HD12	2:H:443:ILE:C	2.41	0.44
2:H:454:ILE:CD1	2:H:458:ARG:HG2	2.48	0.44
2:I:144:ARG:CG	2:I:145:GLU:N	2.81	0.44
2:I:197:LYS:CD	2:I:275:ASP:H	2.30	0.44
2:I:350:PRO:HG3	2:I:380:PRO:HA	1.98	0.44
2:I:394:LEU:CD2	2:I:396:ILE:CD1	2.95	0.44
2:I:423:LEU:CD2	2:I:423:LEU:N	2.80	0.44
2:J:71:LEU:HD11	2:J:76:ARG:C	2.41	0.44
2:J:144:ARG:CG	2:J:145:GLU:N	2.81	0.44
2:J:350:PRO:HG3	2:J:380:PRO:CA	2.47	0.44
2:J:405:ASP:OD1	2:J:407:PRO:HD2	2.18	0.44
2:J:458:ARG:HB3	2:J:458:ARG:NH2	2.33	0.44
2:K:230:ARG:NE	2:K:434:MET:HE1	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:271:VAL:CG1	2:K:281:GLU:CG	2.95	0.44
2:L:449:LEU:CD2	2:L:451:VAL:CG1	2.89	0.44
1:A:87:GLU:C	1:A:89:CYS:N	2.74	0.44
1:A:520:MET:HE3	1:A:705:LEU:CD1	2.47	0.44
1:A:634:SER:O	1:A:635:ASN:HB2	2.16	0.44
1:A:636:LEU:O	1:A:638:THR:N	2.51	0.44
1:A:683:LEU:HD23	1:A:683:LEU:HA	1.56	0.44
1:A:1244:THR:O	1:A:1245:ARG:C	2.51	0.44
4:A:2474:FMN:H9	4:A:2474:FMN:H1'2	1.70	0.44
1:B:345:MET:HG3	1:B:346:ASP:N	2.32	0.44
1:B:440:SER:O	1:B:441:ASP:OD1	2.36	0.44
1:B:606:LEU:C	1:B:607:THR:HG22	2.43	0.44
1:B:877:ARG:CD	1:F:1230:GLN:HB2	2.48	0.44
1:B:900:GLY:C	1:F:1228:LYS:CB	2.91	0.44
1:B:901:ASP:CG	1:F:1228:LYS:HB3	2.41	0.44
1:B:1143:ALA:O	1:B:1144:GLU:C	2.58	0.44
1:B:1228:LYS:CB	1:D:900:GLY:C	2.91	0.44
1:C:114:VAL:HG11	1:C:125:ARG:NH1	2.33	0.44
1:C:121:ALA:C	1:C:123:ALA:N	2.73	0.44
1:C:839:PRO:HG2	1:C:842:GLU:HB2	2.00	0.44
1:C:900:GLY:C	1:E:1228:LYS:HB2	2.43	0.44
1:C:991:ASN:OD1	1:C:991:ASN:C	2.60	0.44
1:C:1113:CYS:C	1:C:1115:VAL:H	2.25	0.44
1:C:1249:MET:HE3	1:C:1249:MET:HB3	1.78	0.44
1:D:266:VAL:HG12	1:D:279:THR:HG22	1.97	0.44
1:D:303:LEU:O	1:D:303:LEU:HG	2.17	0.44
1:D:508:ASN:HB2	1:D:509:PRO:CD	2.47	0.44
1:D:513:SER:CA	1:D:520:MET:HE2	2.47	0.44
1:D:689:LEU:O	1:D:689:LEU:HD12	2.18	0.44
1:D:873:VAL:O	1:D:874:ALA:C	2.60	0.44
1:E:204:PHE:CD2	1:E:204:PHE:C	2.94	0.44
1:E:230:HIS:CD2	1:E:230:HIS:C	2.94	0.44
1:E:286:ARG:HD3	1:E:286:ARG:HA	1.60	0.44
1:E:419:TRP:CE2	1:E:537:GLU:HB3	2.53	0.44
1:F:207:TYR:N	1:F:207:TYR:CD1	2.85	0.44
1:F:452:GLN:NE2	1:F:764:THR:HG23	2.29	0.44
1:F:1016:ALA:O	1:F:1017:ASN:HB2	2.17	0.44
2:G:53:PRO:HD2	2:G:56:GLN:HE21	1.83	0.44
2:G:59:CYS:SG	2:G:61:VAL:CG1	3.05	0.44
2:G:249:LYS:CD	2:G:258:ILE:HD13	2.47	0.44
2:H:59:CYS:SG	2:H:61:VAL:CG1	3.05	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:102:ARG:HG3	2:H:330:SER:OG	2.17	0.44
2:H:163:ALA:HB3	2:H:207:LEU:HD21	2.00	0.44
2:H:166:LEU:HD22	2:H:169:LYS:HE2	2.00	0.44
2:H:405:ASP:OD1	2:H:407:PRO:HD2	2.18	0.44
2:I:53:PRO:HD2	2:I:56:GLN:HE21	1.82	0.44
2:I:166:LEU:HD22	2:I:169:LYS:HE2	2.00	0.44
2:I:405:ASP:OD1	2:I:407:PRO:HD2	2.18	0.44
2:J:59:CYS:SG	2:J:61:VAL:CG1	3.05	0.44
2:J:163:ALA:HB3	2:J:207:LEU:HD21	2.00	0.44
2:J:215:HIS:CD2	2:J:218:PHE:HD1	2.35	0.44
2:J:237:LEU:C	2:J:237:LEU:CD2	2.91	0.44
2:J:290:LYS:CG	2:J:291:HIS:N	2.79	0.44
2:K:148:LEU:HB3	2:K:234:VAL:HG23	1.98	0.44
2:K:163:ALA:HB3	2:K:207:LEU:HD21	2.00	0.44
2:K:262:LEU:C	2:K:262:LEU:HD22	2.43	0.44
2:K:276:THR:HG22	2:K:277:VAL:N	2.31	0.44
2:K:406:LEU:N	2:K:407:PRO:HD2	2.32	0.44
2:K:430:LYS:HD2	2:K:459:ASP:OD1	2.17	0.44
2:L:60:PRO:O	2:L:455:ARG:HD3	2.18	0.44
2:L:305:VAL:HG22	2:L:316:VAL:CG1	2.47	0.44
2:L:317:LYS:CE	2:L:345:ILE:CG1	2.95	0.44
2:L:350:PRO:HG3	2:L:380:PRO:CA	2.47	0.44
1:A:419:TRP:CE2	1:A:537:GLU:HB3	2.53	0.44
1:A:582:LEU:CB	1:A:755:GLN:HE21	2.30	0.44
1:A:820:ARG:CB	1:A:821:PRO:CD	2.96	0.44
1:A:902:ASN:ND2	1:C:1227:GLU:CD	2.75	0.44
1:A:1435:THR:HG23	1:A:1437:SER:CB	2.47	0.44
1:B:235:ASN:HD22	1:B:236:THR:H	1.61	0.44
1:B:289:ARG:NH1	1:B:535:GLU:HB2	2.33	0.44
1:B:515:ARG:NE	1:B:1367:TYR:HE1	2.09	0.44
1:B:705:LEU:HD23	1:B:705:LEU:HA	1.18	0.44
1:B:928:LEU:HD23	1:B:928:LEU:HA	1.65	0.44
1:C:266:VAL:HG12	1:C:266:VAL:O	2.16	0.44
1:C:660:GLY:HA2	1:C:721:GLY:N	2.32	0.44
1:C:858:MET:HA	4:C:2474:FMN:C5A	2.48	0.44
1:C:1050:SER:O	1:C:1051:GLU:C	2.60	0.44
1:C:1315:LEU:HD13	1:C:1320:ASN:ND2	2.33	0.44
1:C:1395:TYR:CE2	1:C:1443:ILE:CD1	3.01	0.44
1:D:8:ALA:HA	1:D:362:LEU:HD12	2.00	0.44
1:D:230:HIS:HE1	1:D:234:ILE:HG13	1.82	0.44
1:D:500:ARG:NH2	1:D:1039:LYS:O	2.50	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:651:ASP:OD1	1:D:651:ASP:N	2.38	0.44
1:D:671:ALA:O	1:D:675:ILE:HD12	2.17	0.44
1:D:731:SER:HA	1:D:747:SER:HB2	1.99	0.44
1:D:1329:TYR:HD1	1:D:1348:VAL:HG13	1.82	0.44
1:D:1346:PHE:O	1:D:1347:ALA:HB3	2.17	0.44
1:E:59:VAL:HG12	1:E:60:LYS:N	2.32	0.44
1:E:293:MET:HE3	1:E:293:MET:HB3	1.72	0.44
1:E:309:THR:HG22	1:E:310:PRO:O	2.17	0.44
1:E:400:LEU:HD12	1:E:400:LEU:HA	1.76	0.44
1:E:565:THR:HG22	1:E:603:HIS:HD2	1.83	0.44
1:E:572:THR:HG21	1:E:615:ARG:HE	1.82	0.44
1:E:648:GLU:HG2	1:E:654:TYR:CE1	2.53	0.44
1:E:780:ARG:HH21	2:L:54:PHE:HD1	1.60	0.44
1:E:1112:THR:O	2:L:112:GLN:CD	2.60	0.44
1:F:9:ILE:HG21	1:F:9:ILE:HD13	1.59	0.44
1:F:266:VAL:HG12	1:F:279:THR:HG22	1.97	0.44
1:F:622:LEU:HD13	1:F:739:PHE:HZ	1.82	0.44
1:F:850:ARG:NH1	1:F:878:ILE:HB	2.33	0.44
1:F:1315:LEU:HD23	1:F:1315:LEU:HA	1.69	0.44
1:F:1346:PHE:O	1:F:1347:ALA:HB3	2.17	0.44
2:G:237:LEU:C	2:G:237:LEU:CD2	2.91	0.44
2:G:350:PRO:HG2	2:G:374:ALA:HA	1.99	0.44
2:G:430:LYS:HE3	2:G:439:ALA:O	2.18	0.44
2:G:454:ILE:CD1	2:G:458:ARG:HG2	2.48	0.44
2:H:262:LEU:C	2:H:262:LEU:HD22	2.43	0.44
2:H:271:VAL:CG1	2:H:281:GLU:CG	2.95	0.44
2:I:145:GLU:OE2	2:I:468:ALA:HB1	2.17	0.44
2:I:230:ARG:NE	2:I:434:MET:HE1	2.32	0.44
2:I:237:LEU:C	2:I:237:LEU:CD2	2.91	0.44
2:I:271:VAL:CG1	2:I:281:GLU:CG	2.95	0.44
2:I:317:LYS:CE	2:I:345:ILE:CG1	2.95	0.44
2:I:350:PRO:HG3	2:I:380:PRO:CA	2.47	0.44
2:J:32:TYR:CE2	2:J:194:LYS:HA	2.53	0.44
2:J:206:LEU:HD22	2:J:206:LEU:HA	1.91	0.44
2:J:281:GLU:HG3	2:J:281:GLU:O	2.17	0.44
2:J:295:LEU:HD21	2:J:319:LEU:HD13	1.99	0.44
2:J:302:MET:HE1	2:J:334:VAL:HA	1.99	0.44
2:K:110:ILE:HB	2:K:115:HIS:HE1	1.81	0.44
2:K:181:ARG:CD	2:K:187:VAL:CG1	2.94	0.44
2:K:197:LYS:CD	2:K:275:ASP:H	2.30	0.44
2:K:215:HIS:HD2	2:K:218:PHE:HD1	1.65	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:302:MET:CE	2:K:334:VAL:CA	2.95	0.44
2:K:305:VAL:HG22	2:K:316:VAL:CG1	2.47	0.44
2:K:350:PRO:HG3	2:K:380:PRO:HA	1.98	0.44
2:L:32:TYR:HE2	2:L:194:LYS:CA	2.30	0.44
2:L:53:PRO:HD2	2:L:56:GLN:HE21	1.82	0.44
2:L:249:LYS:CD	2:L:258:ILE:HD13	2.47	0.44
2:L:302:MET:HE1	2:L:334:VAL:HA	1.99	0.44
2:L:462:GLU:O	2:L:465:HIS:HB3	2.18	0.44
1:A:179:TYR:HD2	1:A:192:TYR:CD2	2.35	0.44
1:A:307:GLN:HB2	1:A:1403:LEU:HD22	1.99	0.44
1:A:309:THR:HG22	1:A:310:PRO:O	2.17	0.44
1:A:316:LEU:O	1:A:319:TYR:N	2.50	0.44
1:A:350:LEU:HD23	1:A:350:LEU:HA	1.55	0.44
1:A:442:MET:CE	1:A:447:LEU:N	2.81	0.44
1:A:554:GLU:OE2	1:A:697:LYS:HE3	2.17	0.44
1:A:706:LYS:NZ	1:A:940:GLU:OE1	2.40	0.44
1:A:839:PRO:HG2	1:A:842:GLU:HB2	2.00	0.44
1:A:990:ILE:O	1:A:1248:SER:OG	2.36	0.44
1:A:1149:ILE:O	1:A:1149:ILE:CG2	2.59	0.44
1:A:1228:LYS:HB2	1:E:900:GLY:C	2.43	0.44
1:A:1445:ASN:HB2	2:L:373:ASP:OD2	2.17	0.44
1:B:293:MET:HG2	1:B:410:LEU:HD23	2.00	0.44
1:B:456:LEU:HD23	1:B:456:LEU:HA	1.11	0.44
1:B:495:LEU:HA	1:B:495:LEU:HD12	1.36	0.44
1:B:558:MET:O	1:B:560:ASP:N	2.51	0.44
1:B:696:TYR:CZ	1:B:700:ILE:HD11	2.52	0.44
1:B:850:ARG:NH1	1:B:878:ILE:HB	2.33	0.44
1:C:313:HIS:CD2	1:C:313:HIS:N	2.83	0.44
1:C:442:MET:CE	1:C:447:LEU:N	2.81	0.44
1:C:498:PHE:H	1:C:498:PHE:HD1	1.64	0.44
1:C:572:THR:HG21	1:C:615:ARG:HE	1.82	0.44
1:C:782:ARG:HG3	2:K:52:VAL:HA	0.89	0.44
1:C:964:MET:O	1:C:965:LEU:HD23	2.18	0.44
1:C:1053:HIS:ND1	1:C:1062:ARG:HD3	2.33	0.44
1:C:1156:ARG:HE	1:C:1156:ARG:HB2	1.72	0.44
1:D:246:ALA:O	1:D:247:HIS:C	2.61	0.44
1:D:558:MET:O	1:D:560:ASP:N	2.51	0.44
1:D:1417:VAL:CG1	1:D:1419:HIS:H	2.28	0.44
1:E:16:SER:O	1:E:20:LYS:CG	2.66	0.44
1:E:250:ARG:NH2	1:E:639:PHE:CE1	2.79	0.44
1:E:452:GLN:CG	1:E:764:THR:HG22	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:575:VAL:HG13	1:E:759:LEU:CD2	2.47	0.44
1:E:1407:ASP:O	1:E:1408:GLU:C	2.61	0.44
1:F:193:PRO:C	1:F:195:LEU:N	2.75	0.44
1:F:254:PRO:CG	1:F:255:ALA:N	2.81	0.44
1:F:1057:THR:HG22	1:F:1190:VAL:HG11	1.98	0.44
1:F:1366:GLU:CG	1:F:1367:TYR:CE2	3.00	0.44
2:G:32:TYR:CE2	2:G:194:LYS:HA	2.53	0.44
2:G:71:LEU:HD21	2:G:76:ARG:CA	2.46	0.44
2:G:96:ARG:NH2	2:G:199:VAL:HG21	2.31	0.44
2:G:102:ARG:HG3	2:G:330:SER:OG	2.17	0.44
2:G:191:PRO:HB2	2:G:193:PHE:CE2	2.52	0.44
2:G:302:MET:HE3	2:G:334:VAL:HA	1.99	0.44
2:H:34:ARG:HG3	2:H:125:LYS:CE	2.46	0.44
2:H:71:LEU:HD11	2:H:76:ARG:C	2.41	0.44
2:H:269:ASN:HD22	2:H:273:LEU:CD2	2.30	0.44
2:H:416:LYS:HZ2	2:H:416:LYS:HB2	1.83	0.44
2:I:262:LEU:HD22	2:I:262:LEU:C	2.43	0.44
2:I:443:ILE:HD12	2:I:444:VAL:HG23	1.99	0.44
2:J:32:TYR:HE2	2:J:194:LYS:CA	2.30	0.44
2:J:96:ARG:HE	2:J:199:VAL:HG21	1.82	0.44
2:J:317:LYS:CE	2:J:345:ILE:CD1	2.94	0.44
2:J:423:LEU:HD22	2:J:423:LEU:N	2.28	0.44
2:J:443:ILE:HD12	2:J:443:ILE:C	2.41	0.44
2:J:443:ILE:HD12	2:J:444:VAL:HG23	1.99	0.44
2:K:290:LYS:CG	2:K:291:HIS:N	2.79	0.44
2:K:462:GLU:O	2:K:465:HIS:HB3	2.18	0.44
2:L:31:ILE:HD11	2:L:194:LYS:HG2	2.00	0.44
2:L:102:ARG:HG3	2:L:330:SER:OG	2.17	0.44
2:L:269:ASN:HD22	2:L:273:LEU:CD2	2.30	0.44
2:L:302:MET:HE3	2:L:334:VAL:HA	1.99	0.44
1:A:16:SER:O	1:A:20:LYS:CG	2.66	0.44
1:A:81:ILE:HD13	1:B:216:PHE:CZ	2.53	0.44
1:A:353:MET:HA	1:A:366:GLY:O	2.18	0.44
1:A:588:ARG:HH11	1:A:588:ARG:HD3	1.59	0.44
1:A:1384:ALA:O	1:A:1385:ALA:C	2.57	0.44
1:A:1407:ASP:O	1:A:1408:GLU:C	2.61	0.44
1:A:1468:VAL:O	1:A:1468:VAL:HG12	2.15	0.44
1:B:165:ASN:O	1:B:166:ASP:HB2	2.18	0.44
1:B:520:MET:HE3	1:B:705:LEU:HB3	2.00	0.44
1:B:782:ARG:HH22	2:G:51:GLY:N	1.97	0.44
1:B:1077:ARG:C	1:B:1079:ILE:N	2.75	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1216:VAL:HG13	1:B:1249:MET:HE2	1.96	0.44
1:C:515:ARG:HH22	1:C:966:ILE:CB	2.23	0.44
1:C:745:ARG:C	1:C:746:ILE:HG13	2.40	0.44
1:C:861:GLY:O	1:C:862:ALA:C	2.61	0.44
1:C:1124:LEU:HA	1:C:1124:LEU:HD12	1.28	0.44
1:C:1139:PHE:N	1:C:1139:PHE:CD1	2.86	0.44
1:C:1184:ASN:C	1:C:1186:ARG:N	2.76	0.44
1:D:117:ILE:HG23	1:D:117:ILE:HD13	1.35	0.44
1:D:219:TRP:N	1:D:220:PRO:CD	2.81	0.44
1:D:235:ASN:HD22	1:D:236:THR:H	1.61	0.44
1:D:520:MET:HE3	1:D:705:LEU:HB3	2.00	0.44
1:D:960:THR:CG2	1:D:963:VAL:HG23	2.47	0.44
1:D:1097:LEU:HD23	1:D:1097:LEU:HA	1.69	0.44
1:D:1170:GLN:OE1	1:D:1183:LEU:HB2	2.17	0.44
1:D:1228:LYS:CB	1:F:900:GLY:C	2.90	0.44
1:E:102:TYR:HE2	1:E:144:PHE:CD1	2.34	0.44
1:E:298:LEU:HD23	1:E:324:MET:CG	2.44	0.44
1:E:660:GLY:HA2	1:E:721:GLY:N	2.32	0.44
1:E:858:MET:HA	4:E:2474:FMN:C5A	2.48	0.44
1:E:871:LEU:HD23	1:E:871:LEU:HA	1.68	0.44
1:E:1084:MET:SD	1:E:1168:LEU:HD21	2.57	0.44
1:E:1156:ARG:O	1:E:1157:SER:HB3	2.17	0.44
1:E:1420:TYR:OH	1:E:1466:LEU:CD2	2.66	0.44
1:F:37:ASP:OD1	1:F:39:LYS:N	2.34	0.44
1:F:403:ASP:OD1	1:F:407:LYS:HG3	2.18	0.44
1:F:1006:ILE:HG23	1:F:1007:GLY:N	2.33	0.44
2:G:50:CYS:SG	2:G:109:VAL:HG21	2.58	0.44
2:G:165:GLU:CB	2:G:169:LYS:HZ3	2.29	0.44
2:G:322:ARG:HG2	2:G:326:ASN:CG	2.43	0.44
2:G:480:ALA:O	2:G:481:GLU:HB3	2.14	0.44
2:H:31:ILE:HD11	2:H:194:LYS:HG2	2.00	0.44
2:H:32:TYR:HE2	2:H:194:LYS:CA	2.30	0.44
2:H:32:TYR:CE2	2:H:194:LYS:HA	2.53	0.44
2:H:179:TYR:HB3	2:H:181:ARG:HH12	1.81	0.44
2:H:266:THR:HG23	2:H:270:LYS:NZ	2.33	0.44
2:H:302:MET:CE	2:H:334:VAL:CA	2.95	0.44
2:H:424:LEU:HD13	2:H:424:LEU:HA	1.75	0.44
2:I:32:TYR:HE2	2:I:194:LYS:CA	2.30	0.44
2:I:161:ALA:CB	2:I:454:ILE:HG12	2.40	0.44
2:I:350:PRO:HG2	2:I:374:ALA:HA	1.99	0.44
2:I:418:THR:HG1	2:I:420:TRP:HD1	1.61	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:34:ARG:HG3	2:J:125:LYS:CE	2.46	0.44
2:J:93:ILE:HG23	2:J:94:CYS:N	2.33	0.44
2:J:132:TRP:CG	2:J:202:ARG:HD2	2.52	0.44
2:J:166:LEU:HD22	2:J:169:LYS:HE2	1.99	0.44
2:J:324:ARG:HA	2:J:346:TRP:CZ2	2.46	0.44
2:J:351:GLU:CB	2:J:353:PHE:HB3	2.47	0.44
2:K:32:TYR:HE2	2:K:194:LYS:CA	2.30	0.44
2:K:144:ARG:CG	2:K:145:GLU:N	2.81	0.44
2:L:144:ARG:CG	2:L:145:GLU:N	2.81	0.44
2:L:469:LYS:HZ3	2:L:476:VAL:CA	2.29	0.44
1:A:120:LYS:O	1:A:123:ALA:HB3	2.18	0.44
1:A:121:ALA:C	1:A:123:ALA:N	2.73	0.44
1:A:359:THR:CG2	1:A:378:GLN:CA	2.95	0.44
1:A:836:ALA:HA	1:A:837:PRO:HD3	1.78	0.44
1:B:59:VAL:HG22	1:B:105:TYR:HD2	1.78	0.44
1:B:254:PRO:CG	1:B:255:ALA:N	2.81	0.44
1:B:375:ASP:OD2	1:B:377:THR:CB	2.61	0.44
1:B:689:LEU:O	1:B:689:LEU:HD12	2.18	0.44
1:B:913:GLY:CA	1:B:1349:ARG:CD	2.94	0.44
1:B:1184:ASN:CB	1:B:1185:PRO:CD	2.80	0.44
1:B:1222:LEU:N	1:B:1229:MET:HE2	2.32	0.44
1:C:59:VAL:HG12	1:C:60:LYS:N	2.32	0.44
1:C:261:GLN:HE21	1:C:264:LYS:HD2	1.83	0.44
1:C:302:ALA:CA	1:C:347:ARG:NH1	2.81	0.44
1:C:316:LEU:O	1:C:319:TYR:N	2.50	0.44
1:C:375:ASP:O	1:C:376:GLU:C	2.60	0.44
1:C:468:MET:O	1:C:472:GLY:N	2.51	0.44
1:C:908:LYS:HD2	1:C:921:TYR:CD2	2.53	0.44
1:C:918:THR:O	1:C:921:TYR:N	2.51	0.44
1:C:1173:ARG:HH22	1:C:1178:LEU:HD23	1.83	0.44
1:D:30:HIS:CD2	1:D:31:ARG:N	2.86	0.44
1:D:49:ALA:O	1:D:50:VAL:C	2.58	0.44
1:D:345:MET:HG3	1:D:346:ASP:N	2.32	0.44
1:D:454:PHE:CG	1:D:648:GLU:HB2	2.53	0.44
1:D:620:ALA:O	1:D:621:ILE:C	2.60	0.44
1:D:985:TYR:O	1:D:988:LYS:N	2.50	0.44
1:E:307:GLN:HB2	1:E:1403:LEU:HD22	1.99	0.44
1:E:348:ASN:O	1:E:349:GLY:C	2.59	0.44
1:E:602:THR:C	1:E:640:THR:HG23	2.43	0.44
1:E:731:SER:O	1:E:734:LEU:HB3	2.18	0.44
1:E:820:ARG:CB	1:E:821:PRO:CD	2.96	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:964:MET:O	1:E:965:LEU:HD23	2.18	0.44
1:E:1053:HIS:ND1	1:E:1062:ARG:HD3	2.33	0.44
1:F:24:ALA:O	1:F:25:LEU:C	2.56	0.44
1:F:30:HIS:CD2	1:F:31:ARG:N	2.86	0.44
1:F:528:ASN:O	1:F:529:LEU:HD23	2.17	0.44
1:F:826:ARG:NH1	1:F:826:ARG:CG	2.67	0.44
1:F:943:GLN:HE21	1:F:1033:SER:HA	1.83	0.44
1:F:1099:ALA:C	1:F:1101:GLY:H	2.26	0.44
1:F:1212:ASP:OD2	1:F:1243:GLY:C	2.61	0.44
1:F:1336:LEU:HD23	1:F:1355:VAL:CG1	2.48	0.44
1:F:1447:TRP:O	1:F:1450:GLU:N	2.51	0.44
2:G:181:ARG:CD	2:G:187:VAL:CG1	2.94	0.44
2:G:304:CYS:CA	2:G:307:THR:HG22	2.48	0.44
2:G:353:PHE:CE1	2:G:370:GLY:C	2.95	0.44
2:H:96:ARG:HE	2:H:199:VAL:HG21	1.82	0.44
2:H:96:ARG:NH2	2:H:199:VAL:HG21	2.31	0.44
2:H:350:PRO:HG3	2:H:380:PRO:HA	1.98	0.44
2:H:430:LYS:HE3	2:H:439:ALA:O	2.17	0.44
2:I:60:PRO:O	2:I:455:ARG:HD3	2.18	0.44
2:I:69:LEU:HA	2:I:72:THR:HG22	2.00	0.44
2:I:188:TYR:OH	2:I:262:LEU:HD23	2.18	0.44
2:I:281:GLU:HG3	2:I:281:GLU:O	2.17	0.44
2:I:426:ASP:O	2:I:430:LYS:HA	2.17	0.44
2:J:188:TYR:OH	2:J:262:LEU:HD23	2.18	0.44
2:J:215:HIS:HD2	2:J:218:PHE:HD1	1.65	0.44
2:J:266:THR:HG23	2:J:270:LYS:NZ	2.33	0.44
2:J:276:THR:HG22	2:J:277:VAL:N	2.31	0.44
2:K:32:TYR:CE2	2:K:194:LYS:HA	2.53	0.44
2:K:96:ARG:HE	2:K:199:VAL:HG21	1.82	0.44
2:K:175:VAL:HG13	2:K:175:VAL:O	2.18	0.44
2:K:178:ARG:HH12	2:K:243:TYR:HB2	1.83	0.44
2:L:32:TYR:CD1	2:L:34:ARG:HD3	2.53	0.44
2:L:237:LEU:C	2:L:237:LEU:CD2	2.91	0.44
2:L:371:VAL:CG2	2:L:386:SER:CB	2.94	0.44
1:A:6:ILE:HD13	1:A:20:LYS:HB2	1.99	0.43
1:A:114:VAL:HG11	1:A:125:ARG:NH1	2.33	0.43
1:A:125:ARG:HG3	1:A:219:TRP:CZ2	2.53	0.43
1:A:169:ILE:O	1:A:170:CYS:C	2.61	0.43
1:A:197:ASP:OD1	1:A:199:ARG:N	2.38	0.43
1:A:218:THR:CG2	1:A:221:LEU:HG	2.44	0.43
1:A:509:PRO:HA	1:A:510:PRO:HD3	1.81	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:551:THR:O	1:A:552:THR:C	2.61	0.43
1:A:573:PHE:CB	1:A:574:PRO:CD	2.96	0.43
1:A:828:LEU:HD22	1:A:1172:SER:CB	2.38	0.43
1:A:1348:VAL:O	1:A:1348:VAL:CG1	2.65	0.43
1:A:1351:SER:OG	1:A:1369:THR:HB	2.18	0.43
1:B:81:ILE:O	1:B:81:ILE:CG2	2.67	0.43
1:B:511:ILE:HG22	1:B:512:ASP:H	1.79	0.43
1:B:840:VAL:O	1:B:841:ASP:C	2.57	0.43
1:B:958:HIS:N	1:B:958:HIS:HD1	2.16	0.43
1:B:1336:LEU:HD23	1:B:1355:VAL:CG1	2.48	0.43
1:B:1467:GLU:O	1:B:1469:PRO:HD3	2.18	0.43
1:C:348:ASN:O	1:C:349:GLY:C	2.58	0.43
1:C:438:GLU:OE1	1:C:553:ALA:HB2	2.18	0.43
1:C:565:THR:HG22	1:C:603:HIS:HD2	1.83	0.43
1:C:634:SER:O	1:C:635:ASN:HB2	2.16	0.43
1:C:902:ASN:ND2	1:E:1227:GLU:CD	2.75	0.43
1:C:987:LEU:HD23	1:C:987:LEU:HA	1.70	0.43
1:D:403:ASP:OD1	1:D:407:LYS:HG3	2.18	0.43
1:D:643:ASN:HD22	1:D:665:THR:HG21	1.83	0.43
1:D:706:LYS:O	1:D:707:ILE:C	2.59	0.43
1:D:780:ARG:NH2	2:H:109:VAL:HG11	2.33	0.43
1:D:1366:GLU:OE2	1:D:1367:TYR:CE2	2.71	0.43
1:E:216:PHE:HA	1:E:217:PRO:HD3	1.73	0.43
1:E:261:GLN:HE21	1:E:264:LYS:HD2	1.83	0.43
1:E:297:MET:HB3	1:E:297:MET:HE2	1.53	0.43
1:E:420:VAL:C	1:E:422:ASN:N	2.76	0.43
1:E:495:LEU:HD12	1:E:495:LEU:HA	1.53	0.43
1:E:908:LYS:HD2	1:E:921:TYR:CD2	2.53	0.43
1:E:1050:SER:O	1:E:1051:GLU:C	2.60	0.43
1:E:1351:SER:OG	1:E:1369:THR:HB	2.18	0.43
1:E:1360:CYS:O	1:E:1361:GLY:O	2.35	0.43
1:F:312:ASN:HB2	1:F:411:ALA:CB	2.46	0.43
1:F:426:LEU:HD23	1:F:543:LEU:HB3	1.93	0.43
1:F:559:ARG:O	1:F:559:ARG:HG3	2.17	0.43
1:F:562:MET:HB2	1:F:563:GLY:H	1.54	0.43
1:F:743:VAL:HG11	1:F:745:ARG:HG3	2.00	0.43
1:F:1463:LEU:HD23	1:F:1463:LEU:HA	1.71	0.43
2:G:34:ARG:HG3	2:G:125:LYS:CE	2.46	0.43
2:G:100:GLN:CD	7:G:482:SF4:S1	3.01	0.43
2:G:181:ARG:NH2	2:G:188:TYR:CD1	2.86	0.43
2:G:371:VAL:CG2	2:G:386:SER:CB	2.94	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:449:LEU:HD22	2:G:452:TRP:CE2	2.53	0.43
2:H:178:ARG:HH12	2:H:243:TYR:HB2	1.83	0.43
2:H:188:TYR:OH	2:H:262:LEU:HD23	2.18	0.43
2:H:317:LYS:HE3	2:H:345:ILE:HG13	2.00	0.43
2:H:366:ARG:CG	2:H:391:GLN:HA	2.28	0.43
2:H:418:THR:CA	2:H:424:LEU:CD2	2.95	0.43
2:H:443:ILE:HD12	2:H:444:VAL:HG23	1.99	0.43
2:H:462:GLU:O	2:H:465:HIS:HB3	2.18	0.43
2:I:54:PHE:HB2	2:I:107:ASN:O	2.18	0.43
2:I:93:ILE:HG23	2:I:94:CYS:N	2.33	0.43
2:I:181:ARG:NH2	2:I:188:TYR:CD1	2.86	0.43
2:I:229:LEU:HD22	2:I:236:VAL:HG12	2.00	0.43
2:I:266:THR:HG23	2:I:270:LYS:NZ	2.33	0.43
2:I:302:MET:CE	2:I:334:VAL:CA	2.95	0.43
2:J:430:LYS:HE3	2:J:439:ALA:O	2.18	0.43
2:K:319:LEU:C	2:K:319:LEU:CD2	2.91	0.43
2:K:322:ARG:CD	2:K:349:ALA:CB	2.94	0.43
2:K:345:ILE:HD13	2:K:345:ILE:N	2.17	0.43
2:K:430:LYS:HE3	2:K:439:ALA:O	2.18	0.43
2:K:449:LEU:HD22	2:K:452:TRP:CE2	2.53	0.43
2:K:454:ILE:CD1	2:K:458:ARG:HG2	2.48	0.43
2:K:458:ARG:HB3	2:K:458:ARG:NH2	2.32	0.43
2:L:32:TYR:CE2	2:L:194:LYS:HA	2.53	0.43
2:L:175:VAL:HG13	2:L:175:VAL:O	2.18	0.43
2:L:191:PRO:HB2	2:L:193:PHE:CE2	2.52	0.43
2:L:276:THR:HG22	2:L:277:VAL:N	2.31	0.43
1:A:208:HIS:CD2	1:A:209:GLN:C	2.96	0.43
1:A:447:LEU:CD1	1:A:670:LEU:HD21	2.43	0.43
1:A:495:LEU:HA	1:A:495:LEU:HD12	1.53	0.43
1:A:515:ARG:HH22	1:A:966:ILE:CB	2.23	0.43
1:A:1156:ARG:O	1:A:1157:SER:HB3	2.18	0.43
1:A:1468:VAL:HG12	1:A:1469:PRO:O	2.19	0.43
1:B:9:ILE:HD13	1:B:9:ILE:HG21	1.59	0.43
1:B:30:HIS:HD2	1:B:31:ARG:H	1.65	0.43
1:B:49:ALA:O	1:B:50:VAL:C	2.58	0.43
1:B:454:PHE:CG	1:B:648:GLU:HB2	2.53	0.43
1:B:492:TYR:C	1:B:492:TYR:CD1	2.94	0.43
1:B:706:LYS:O	1:B:707:ILE:C	2.59	0.43
1:B:838:VAL:HG13	1:B:839:PRO:CD	2.32	0.43
1:B:1003:ARG:NH1	1:B:1004:SER:O	2.50	0.43
1:B:1212:ASP:OD1	1:B:1243:GLY:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:125:ARG:HG3	1:C:219:TRP:CZ2	2.53	0.43
1:C:447:LEU:CD1	1:C:670:LEU:HD21	2.43	0.43
1:C:903:TRP:CD1	1:C:903:TRP:N	2.86	0.43
1:C:1226:GLY:O	1:C:1227:GLU:C	2.59	0.43
1:D:111:PRO:C	1:D:112:ILE:CG2	2.91	0.43
1:D:694:ALA:O	1:D:695:ASN:C	2.58	0.43
1:D:806:SER:HG	1:D:809:THR:CB	2.30	0.43
1:D:1032:ALA:O	1:D:1033:SER:HB2	2.19	0.43
1:D:1043:LEU:O	1:D:1044:PRO:C	2.58	0.43
1:D:1139:PHE:O	1:D:1140:THR:C	2.59	0.43
1:D:1158:LEU:HD12	1:D:1158:LEU:HA	1.80	0.43
1:D:1467:GLU:O	1:D:1469:PRO:HD3	2.18	0.43
1:E:218:THR:CG2	1:E:221:LEU:HG	2.44	0.43
1:E:295:LYS:HE2	1:E:299:VAL:HG11	1.98	0.43
1:E:302:ALA:CA	1:E:347:ARG:NH1	2.81	0.43
1:E:515:ARG:HH22	1:E:966:ILE:CB	2.23	0.43
1:E:701:ASP:C	1:E:703:GLY:N	2.71	0.43
1:F:8:ALA:HA	1:F:362:LEU:HD12	2.00	0.43
1:F:219:TRP:N	1:F:220:PRO:CD	2.81	0.43
1:F:442:MET:HB2	1:F:673:GLU:HG2	2.01	0.43
1:F:454:PHE:CG	1:F:648:GLU:HB2	2.53	0.43
1:F:612:GLY:O	1:F:762:HIS:HE1	1.99	0.43
1:F:689:LEU:O	1:F:689:LEU:HD12	2.18	0.43
1:F:731:SER:HA	1:F:747:SER:HB2	1.99	0.43
1:F:736:ALA:O	1:F:737:GLU:C	2.58	0.43
1:F:957:ARG:HD2	1:F:965:LEU:CD1	2.48	0.43
1:F:1030:THR:OG1	5:F:2475:AKG:O1	2.24	0.43
1:F:1075:THR:HG22	1:F:1076:GLY:N	2.31	0.43
2:G:54:PHE:HB2	2:G:107:ASN:O	2.18	0.43
2:G:195:LEU:HD12	2:G:196:GLU:O	2.19	0.43
2:G:295:LEU:HD21	2:G:319:LEU:HD13	1.99	0.43
2:H:69:LEU:HA	2:H:72:THR:HG22	2.00	0.43
2:H:206:LEU:HD22	2:H:206:LEU:HA	1.91	0.43
2:I:32:TYR:CE2	2:I:194:LYS:HA	2.53	0.43
2:I:80:ALA:HB3	2:I:127:ILE:HD11	1.96	0.43
2:I:319:LEU:C	2:I:319:LEU:CD2	2.91	0.43
2:I:449:LEU:CD2	2:I:452:TRP:CG	2.93	0.43
2:J:32:TYR:CD1	2:J:34:ARG:HD3	2.53	0.43
2:J:54:PHE:HB2	2:J:107:ASN:O	2.18	0.43
2:J:262:LEU:HD22	2:J:262:LEU:C	2.43	0.43
2:J:418:THR:CA	2:J:424:LEU:CD2	2.95	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:100:GLN:CD	7:K:482:SF4:S1	3.01	0.43
2:K:237:LEU:C	2:K:237:LEU:CD2	2.91	0.43
2:L:61:VAL:HG21	2:L:87:THR:C	2.43	0.43
2:L:197:LYS:CD	2:L:275:ASP:H	2.30	0.43
2:L:290:LYS:CG	2:L:291:HIS:N	2.79	0.43
2:L:306:ARG:NH1	2:L:336:HIS:HB2	2.34	0.43
2:L:449:LEU:HD22	2:L:452:TRP:CE2	2.53	0.43
1:A:438:GLU:OE1	1:A:553:ALA:HB2	2.18	0.43
1:A:690:GLU:O	1:A:691:LYS:C	2.62	0.43
1:A:1022:LEU:HA	1:A:1068:ARG:O	2.19	0.43
1:A:1113:CYS:HB3	1:A:1119:VAL:CG1	2.49	0.43
1:A:1173:ARG:HH22	1:A:1178:LEU:HD23	1.83	0.43
1:A:1315:LEU:HD13	1:A:1320:ASN:ND2	2.33	0.43
1:B:92:ILE:O	1:B:93:VAL:C	2.59	0.43
1:B:292:PRO:O	1:B:293:MET:C	2.60	0.43
1:B:303:LEU:O	1:B:304:THR:C	2.61	0.43
1:B:420:VAL:HA	1:B:540:THR:HG21	2.00	0.43
1:B:508:ASN:HB2	1:B:509:PRO:CD	2.47	0.43
1:B:511:ILE:HG21	1:B:511:ILE:HD13	1.76	0.43
1:B:622:LEU:HD13	1:B:739:PHE:HZ	1.82	0.43
1:B:1043:LEU:O	1:B:1044:PRO:C	2.58	0.43
1:B:1277:GLY:O	1:B:1278:ALA:C	2.60	0.43
1:B:1447:TRP:O	1:B:1450:GLU:N	2.51	0.43
1:C:120:LYS:O	1:C:123:ALA:HB3	2.18	0.43
1:C:191:PHE:CD1	1:C:191:PHE:O	2.71	0.43
1:C:309:THR:HB	1:C:314:LYS:HE3	1.99	0.43
1:C:420:VAL:O	1:C:422:ASN:N	2.50	0.43
1:C:778:PHE:HE2	1:C:1039:LYS:HD2	1.66	0.43
1:C:869:GLY:O	1:C:870:THR:C	2.54	0.43
1:C:1159:ASN:C	1:C:1161:VAL:N	2.76	0.43
1:C:1395:TYR:HE1	1:C:1397:LEU:HG	1.82	0.43
1:C:1427:LEU:O	1:C:1428:ILE:C	2.62	0.43
1:D:98:LEU:HD23	1:D:98:LEU:HA	1.62	0.43
1:D:292:PRO:O	1:D:293:MET:C	2.60	0.43
1:D:317:ILE:C	1:D:321:ASN:HD22	2.18	0.43
1:D:958:HIS:N	1:D:958:HIS:HD1	2.16	0.43
1:D:964:MET:O	1:D:965:LEU:HD23	2.17	0.43
1:D:1050:SER:O	1:D:1051:GLU:O	2.36	0.43
1:D:1085:LEU:HD23	1:D:1085:LEU:HA	1.65	0.43
4:D:2474:FMN:H1'2	4:D:2474:FMN:H9	1.57	0.43
1:E:208:HIS:CD2	1:E:209:GLN:C	2.96	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:248:GLU:OE2	1:E:266:VAL:N	2.44	0.43
1:E:353:MET:HA	1:E:366:GLY:O	2.18	0.43
1:E:429:LEU:O	1:E:429:LEU:HG	2.14	0.43
1:E:621:ILE:HG12	1:E:657:VAL:HG11	2.00	0.43
1:E:1113:CYS:O	1:E:1114:PRO:C	2.62	0.43
1:E:1156:ARG:O	1:E:1157:SER:CB	2.62	0.43
1:E:1211:LEU:HD12	1:E:1211:LEU:HA	1.72	0.43
1:F:840:VAL:O	1:F:841:ASP:C	2.56	0.43
2:G:31:ILE:HD11	2:G:194:LYS:HG2	2.00	0.43
2:G:163:ALA:HB3	2:G:207:LEU:HD21	2.00	0.43
2:G:197:LYS:CD	2:G:275:ASP:H	2.30	0.43
2:G:305:VAL:HG22	2:G:316:VAL:CG1	2.47	0.43
2:G:405:ASP:OD1	2:G:407:PRO:HD2	2.18	0.43
2:G:449:LEU:HD23	2:G:452:TRP:H	1.83	0.43
2:H:32:TYR:CD1	2:H:34:ARG:HD3	2.53	0.43
2:H:61:VAL:HG21	2:H:87:THR:C	2.43	0.43
2:H:93:ILE:HG23	2:H:94:CYS:N	2.33	0.43
2:H:165:GLU:CB	2:H:169:LYS:HZ3	2.30	0.43
2:I:32:TYR:CD1	2:I:34:ARG:HD3	2.53	0.43
2:I:96:ARG:NH2	2:I:199:VAL:HG21	2.31	0.43
2:I:163:ALA:HB3	2:I:207:LEU:HD21	2.00	0.43
2:I:447:ALA:HB1	2:I:452:TRP:CD2	2.50	0.43
2:J:110:ILE:HD11	2:J:118:VAL:CA	2.48	0.43
2:J:319:LEU:C	2:J:319:LEU:CD2	2.91	0.43
2:J:423:LEU:CD2	2:J:423:LEU:N	2.80	0.43
2:J:426:ASP:O	2:J:430:LYS:HA	2.17	0.43
2:K:32:TYR:CD1	2:K:34:ARG:HD3	2.53	0.43
2:K:61:VAL:HG21	2:K:87:THR:C	2.43	0.43
2:K:71:LEU:CD1	2:K:80:ALA:N	2.81	0.43
2:K:118:VAL:HG22	2:K:118:VAL:H	1.08	0.43
2:K:146:LEU:N	2:K:146:LEU:CD2	2.81	0.43
2:K:181:ARG:NH2	2:K:188:TYR:CD1	2.86	0.43
2:K:269:ASN:HD22	2:K:273:LEU:CD2	2.30	0.43
2:K:295:LEU:HD21	2:K:319:LEU:HD13	1.99	0.43
2:L:146:LEU:N	2:L:146:LEU:CD2	2.81	0.43
2:L:166:LEU:HD22	2:L:169:LYS:HE2	2.00	0.43
2:L:215:HIS:CD2	2:L:218:PHE:HD1	2.35	0.43
2:L:277:VAL:CG1	2:L:278:GLU:N	2.81	0.43
2:L:454:ILE:CD1	2:L:458:ARG:HG2	2.48	0.43
1:A:144:PHE:HD1	1:A:144:PHE:HA	1.68	0.43
1:A:191:PHE:CD1	1:A:191:PHE:O	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:330:PRO:HB3	1:A:350:LEU:HB3	2.01	0.43
1:A:420:VAL:O	1:A:422:ASN:N	2.50	0.43
1:A:918:THR:O	1:A:921:TYR:N	2.51	0.43
1:A:1050:SER:O	1:A:1051:GLU:C	2.60	0.43
1:A:1053:HIS:ND1	1:A:1062:ARG:HD3	2.33	0.43
1:A:1438:ARG:C	1:A:1440:ALA:N	2.76	0.43
1:B:78:LEU:HB3	1:B:79:PRO:CD	2.48	0.43
1:B:146:LEU:C	1:B:146:LEU:CD1	2.87	0.43
1:B:230:HIS:HE1	1:B:234:ILE:HG13	1.82	0.43
1:B:308:THR:O	1:B:308:THR:CG2	2.66	0.43
1:B:366:GLY:HA3	1:B:371:MET:HE2	2.01	0.43
1:B:500:ARG:NH2	1:B:1039:LYS:O	2.50	0.43
1:C:30:HIS:CD2	1:C:30:HIS:N	2.85	0.43
1:C:208:HIS:CD2	1:C:209:GLN:C	2.96	0.43
1:C:509:PRO:HB3	1:C:975:TYR:CD1	2.53	0.43
1:C:803:THR:O	1:C:803:THR:HG22	2.08	0.43
1:C:1407:ASP:O	1:C:1408:GLU:C	2.61	0.43
1:D:420:VAL:HA	1:D:540:THR:HG21	2.00	0.43
1:D:430:VAL:HG13	1:D:554:GLU:CA	2.37	0.43
1:D:550:LEU:HA	1:D:554:GLU:OE2	2.19	0.43
1:D:660:GLY:HA2	1:D:721:GLY:N	2.33	0.43
1:D:970:PRO:HG2	1:D:970:PRO:O	2.19	0.43
1:D:985:TYR:O	1:D:986:ASP:C	2.61	0.43
1:D:986:ASP:O	1:D:987:LEU:C	2.56	0.43
1:E:78:LEU:HB3	1:E:79:PRO:HD2	2.00	0.43
1:E:114:VAL:HG11	1:E:125:ARG:NH1	2.33	0.43
1:E:468:MET:O	1:E:472:GLY:N	2.50	0.43
1:E:636:LEU:O	1:E:639:PHE:N	2.38	0.43
1:E:826:ARG:NH1	1:E:1046:GLU:CD	2.76	0.43
1:E:918:THR:O	1:E:921:TYR:N	2.51	0.43
1:E:1138:LEU:HA	1:E:1138:LEU:HD12	1.79	0.43
1:E:1219:ALA:HA	1:E:1229:MET:HE3	2.00	0.43
1:E:1425:LYS:CD	1:E:1447:TRP:CD1	3.02	0.43
1:F:78:LEU:HB3	1:F:79:PRO:CD	2.48	0.43
1:F:111:PRO:C	1:F:112:ILE:CG2	2.91	0.43
1:F:227:MET:HE3	1:F:282:GLU:CA	2.27	0.43
1:F:248:GLU:C	1:F:250:ARG:H	2.27	0.43
1:F:284:MET:HE2	1:F:294:VAL:HG13	2.01	0.43
1:F:319:TYR:O	1:F:320:CYS:C	2.61	0.43
1:F:558:MET:O	1:F:560:ASP:N	2.51	0.43
1:F:806:SER:HG	1:F:809:THR:H	1.63	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:985:TYR:O	1:F:986:ASP:C	2.61	0.43
1:F:1244:THR:OG1	1:F:1278:ALA:HB3	2.18	0.43
1:F:1435:THR:HG23	1:F:1437:SER:N	2.34	0.43
2:G:32:TYR:CD1	2:G:34:ARG:HD3	2.53	0.43
2:G:60:PRO:O	2:G:455:ARG:HD3	2.18	0.43
2:G:197:LYS:HG2	2:G:273:LEU:CD1	2.43	0.43
2:G:230:ARG:NE	2:G:434:MET:HE1	2.32	0.43
2:G:306:ARG:NH1	2:G:336:HIS:HB2	2.34	0.43
2:G:319:LEU:C	2:G:319:LEU:CD2	2.91	0.43
2:H:32:TYR:CE2	2:H:194:LYS:CA	3.02	0.43
2:H:54:PHE:HB2	2:H:107:ASN:O	2.18	0.43
2:H:77:LEU:CA	2:H:127:ILE:CD1	2.93	0.43
2:H:92:GLU:HG3	2:H:203:ARG:NH1	2.34	0.43
2:H:237:LEU:C	2:H:237:LEU:CD2	2.91	0.43
2:I:100:GLN:CD	7:I:482:SF4:S1	3.01	0.43
2:I:153:ILE:CG1	2:I:220:VAL:HG22	2.49	0.43
2:J:53:PRO:HD2	2:J:56:GLN:HE21	1.83	0.43
2:J:68:TRP:CH2	2:J:124:GLU:OE1	2.72	0.43
2:J:462:GLU:O	2:J:465:HIS:HB3	2.18	0.43
2:K:31:ILE:HG12	2:K:193:PHE:CD1	2.54	0.43
2:K:54:PHE:HB2	2:K:107:ASN:O	2.18	0.43
2:K:93:ILE:HG23	2:K:94:CYS:N	2.33	0.43
2:K:317:LYS:HE3	2:K:345:ILE:HG13	2.00	0.43
2:K:350:PRO:HG2	2:K:374:ALA:HA	1.99	0.43
2:L:28:PHE:HZ	2:L:285:LEU:HD21	1.83	0.43
2:L:188:TYR:OH	2:L:262:LEU:HD23	2.18	0.43
2:L:230:ARG:NE	2:L:434:MET:HE1	2.32	0.43
2:L:322:ARG:HG2	2:L:326:ASN:CG	2.43	0.43
1:A:56:LYS:HE2	1:A:67:PRO:O	2.17	0.43
1:A:621:ILE:HG12	1:A:657:VAL:HG11	2.00	0.43
1:A:687:MET:HA	1:A:688:PRO:HD3	1.83	0.43
1:A:858:MET:HA	4:A:2474:FMN:C5A	2.48	0.43
1:A:908:LYS:HD2	1:A:921:TYR:CD2	2.53	0.43
1:A:1068:ARG:NE	1:A:1089:GLU:OE1	2.39	0.43
1:A:1274:GLN:H	1:A:1274:GLN:HG2	1.35	0.43
1:A:1315:LEU:HB3	1:A:1320:ASN:ND2	2.31	0.43
1:A:1395:TYR:CE2	1:A:1443:ILE:CD1	3.01	0.43
1:B:8:ALA:HA	1:B:362:LEU:HD12	2.00	0.43
1:B:82:SER:O	1:B:83:LEU:C	2.60	0.43
1:B:694:ALA:O	1:B:695:ASN:C	2.58	0.43
1:B:974:ILE:HD13	1:B:974:ILE:HG21	1.74	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1054:GLN:O	1:B:1055:VAL:C	2.60	0.43
1:C:420:VAL:C	1:C:422:ASN:N	2.76	0.43
1:C:1394:VAL:O	1:C:1394:VAL:CG1	2.55	0.43
1:C:1458:VAL:CG1	1:C:1459:PRO:CD	2.97	0.43
1:D:364:ILE:HD12	1:D:374:ILE:HD11	2.00	0.43
1:D:376:GLU:O	1:D:377:THR:C	2.62	0.43
1:D:440:SER:O	1:D:441:ASP:OD1	2.36	0.43
1:D:1277:GLY:O	1:D:1278:ALA:C	2.60	0.43
1:E:81:ILE:HD13	1:F:216:PHE:CZ	2.53	0.43
1:E:435:LEU:C	1:E:437:GLY:N	2.77	0.43
1:E:509:PRO:HB3	1:E:975:TYR:CD1	2.53	0.43
1:E:551:THR:O	1:E:552:THR:C	2.61	0.43
1:E:787:ARG:HH11	1:E:787:ARG:HD3	1.66	0.43
1:E:949:VAL:O	1:E:950:THR:O	2.37	0.43
1:E:978:GLU:H	1:E:978:GLU:HG2	1.19	0.43
1:E:1022:LEU:HA	1:E:1068:ARG:O	2.19	0.43
1:E:1310:THR:O	1:E:1313:SER:N	2.33	0.43
1:E:1315:LEU:HB3	1:E:1320:ASN:ND2	2.31	0.43
1:E:1315:LEU:HD13	1:E:1320:ASN:ND2	2.33	0.43
1:E:1387:MET:O	1:E:1387:MET:CG	2.41	0.43
1:E:1416:GLU:O	1:E:1417:VAL:C	2.61	0.43
1:E:1425:LYS:HD2	1:E:1447:TRP:CD2	2.54	0.43
1:F:144:PHE:HD1	1:F:144:PHE:HA	1.71	0.43
1:F:242:ASN:C	1:F:244:MET:N	2.72	0.43
1:F:251:MET:CE	1:F:533:LEU:HD11	2.49	0.43
1:F:409:HIS:O	1:F:413:LEU:HD23	2.19	0.43
1:F:440:SER:O	1:F:441:ASP:OD1	2.36	0.43
1:F:643:ASN:HD22	1:F:665:THR:HG21	1.83	0.43
1:F:780:ARG:NH2	2:I:109:VAL:HG11	2.33	0.43
1:F:958:HIS:N	1:F:958:HIS:HD1	2.16	0.43
1:F:1329:TYR:HD1	1:F:1348:VAL:HG13	1.82	0.43
2:G:31:ILE:HG12	2:G:193:PHE:CD1	2.54	0.43
2:G:32:TYR:HE2	2:G:194:LYS:CA	2.30	0.43
2:G:77:LEU:CA	2:G:127:ILE:CD1	2.93	0.43
2:G:351:GLU:CB	2:G:353:PHE:HB3	2.47	0.43
2:H:201:GLU:HA	2:H:204:VAL:CG1	2.49	0.43
2:I:61:VAL:HG21	2:I:87:THR:C	2.43	0.43
2:I:148:LEU:HB3	2:I:234:VAL:HG23	1.98	0.43
2:I:264:TYR:CE1	2:I:311:GLN:NE2	2.87	0.43
2:J:32:TYR:CE2	2:J:194:LYS:CA	3.02	0.43
2:J:96:ARG:NH2	2:J:199:VAL:HG21	2.31	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:110:ILE:HB	2:J:115:HIS:HE1	1.81	0.43
2:J:153:ILE:CG1	2:J:220:VAL:HG22	2.49	0.43
2:K:188:TYR:OH	2:K:262:LEU:HD23	2.18	0.43
2:K:266:THR:HG23	2:K:270:LYS:NZ	2.33	0.43
2:K:418:THR:C	2:K:420:TRP:H	2.25	0.43
2:K:443:ILE:HD12	2:K:444:VAL:HG23	1.99	0.43
2:K:449:LEU:HD23	2:K:452:TRP:H	1.83	0.43
2:L:80:ALA:HB3	2:L:127:ILE:HD11	1.96	0.43
2:L:145:GLU:O	2:L:145:GLU:HG2	2.12	0.43
2:L:153:ILE:CG1	2:L:220:VAL:CG1	2.96	0.43
2:L:200:VAL:HA	2:L:203:ARG:HD2	1.97	0.43
2:L:201:GLU:HA	2:L:204:VAL:CG1	2.49	0.43
2:L:430:LYS:HE3	2:L:439:ALA:O	2.17	0.43
2:L:449:LEU:HD23	2:L:452:TRP:H	1.83	0.43
1:A:56:LYS:NZ	1:A:69:ASN:O	2.37	0.43
1:A:260:MET:O	1:A:261:GLN:C	2.61	0.43
1:A:385:LEU:HD12	1:A:389:GLU:C	2.44	0.43
1:A:498:PHE:HD1	1:A:498:PHE:H	1.64	0.43
1:A:515:ARG:H	1:A:515:ARG:HG3	1.52	0.43
1:A:572:THR:CG2	1:A:615:ARG:HE	2.32	0.43
1:A:805:ASP:OD1	1:A:805:ASP:C	2.58	0.43
1:A:1161:VAL:O	1:A:1161:VAL:HG13	2.18	0.43
1:A:1465:ARG:HE	1:A:1465:ARG:HB3	1.62	0.43
1:B:219:TRP:N	1:B:220:PRO:CD	2.81	0.43
1:B:248:GLU:C	1:B:250:ARG:H	2.27	0.43
1:B:251:MET:CE	1:B:533:LEU:HD11	2.49	0.43
1:B:290:THR:HG22	1:B:292:PRO:CD	2.48	0.43
1:B:312:ASN:HB2	1:B:411:ALA:CB	2.46	0.43
1:B:677:GLU:OE2	1:B:681:ARG:NH1	2.52	0.43
1:C:419:TRP:CE2	1:C:537:GLU:HB3	2.53	0.43
1:C:515:ARG:H	1:C:515:ARG:HG3	1.52	0.43
1:C:559:ARG:HD2	1:C:605:ILE:CD1	2.48	0.43
1:C:701:ASP:C	1:C:703:GLY:N	2.71	0.43
1:C:983:LEU:HD22	1:C:987:LEU:HG	2.01	0.43
1:C:1022:LEU:HA	1:C:1068:ARG:O	2.19	0.43
1:C:1026:ASN:ND2	1:C:1027:SER:N	2.66	0.43
1:C:1219:ALA:HA	1:C:1229:MET:HE3	2.00	0.43
1:C:1349:ARG:NH1	1:C:1367:TYR:O	2.52	0.43
1:C:1425:LYS:HD2	1:C:1447:TRP:CD2	2.54	0.43
1:D:284:MET:HE2	1:D:294:VAL:HG13	2.01	0.43
1:D:293:MET:HG2	1:D:410:LEU:HD23	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:622:LEU:HD13	1:D:739:PHE:HZ	1.82	0.43
1:D:782:ARG:HA	2:H:52:VAL:C	2.42	0.43
1:D:783:LYS:HD3	2:H:57:VAL:HG13	0.93	0.43
1:D:957:ARG:HD2	1:D:965:LEU:CD1	2.48	0.43
1:E:316:LEU:O	1:E:319:TYR:N	2.50	0.43
1:E:807:TYR:OH	1:E:1148:GLU:OE1	2.35	0.43
1:E:840:VAL:O	1:E:841:ASP:C	2.61	0.43
1:E:1113:CYS:HB3	1:E:1119:VAL:CG1	2.49	0.43
1:E:1131:THR:HG22	1:E:1133:GLU:H	1.81	0.43
1:E:1159:ASN:C	1:E:1161:VAL:N	2.76	0.43
1:E:1354:THR:HG23	1:E:1372:THR:HB	2.01	0.43
1:E:1395:TYR:CE2	1:E:1443:ILE:CD1	3.01	0.43
1:E:1438:ARG:C	1:E:1440:ALA:N	2.76	0.43
1:F:92:ILE:O	1:F:93:VAL:C	2.59	0.43
1:F:120:LYS:HE2	1:F:120:LYS:HA	2.00	0.43
1:F:366:GLY:HA3	1:F:371:MET:HE2	2.01	0.43
1:F:390:MET:HE3	1:F:390:MET:HB3	1.73	0.43
1:F:632:ILE:HG23	1:F:632:ILE:HD12	1.66	0.43
1:F:706:LYS:O	1:F:707:ILE:C	2.59	0.43
1:F:1184:ASN:O	1:F:1185:PRO:C	2.61	0.43
2:G:51:GLY:O	2:G:52:VAL:HG23	2.16	0.43
2:G:61:VAL:HG21	2:G:87:THR:C	2.43	0.43
2:G:94:CYS:SG	2:G:450:VAL:HG22	2.59	0.43
2:G:173:VAL:CG2	2:G:174:HIS:N	2.81	0.43
2:G:178:ARG:HH12	2:G:243:TYR:HB2	1.83	0.43
2:G:186:LEU:CD2	2:G:186:LEU:C	2.92	0.43
2:H:60:PRO:O	2:H:455:ARG:HD3	2.18	0.43
2:H:94:CYS:SG	2:H:450:VAL:HG22	2.59	0.43
2:H:144:ARG:CG	2:H:145:GLU:N	2.81	0.43
2:H:215:HIS:HD2	2:H:218:PHE:HD1	1.65	0.43
2:H:322:ARG:HG2	2:H:326:ASN:CG	2.43	0.43
2:I:110:ILE:HD11	2:I:118:VAL:CA	2.48	0.43
2:I:175:VAL:HG13	2:I:175:VAL:O	2.18	0.43
2:I:302:MET:HE3	2:I:334:VAL:HA	1.99	0.43
2:J:28:PHE:HZ	2:J:285:LEU:HD21	1.84	0.43
2:J:94:CYS:SG	2:J:450:VAL:HG22	2.59	0.43
2:J:178:ARG:HH12	2:J:243:TYR:HB2	1.83	0.43
2:J:229:LEU:HD22	2:J:236:VAL:HG12	2.00	0.43
2:J:240:THR:HG23	2:J:443:ILE:HG21	2.01	0.43
2:J:264:TYR:CE1	2:J:311:GLN:NE2	2.87	0.43
2:J:302:MET:HE1	2:J:334:VAL:N	2.34	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:306:ARG:NH1	2:J:336:HIS:HB2	2.34	0.43
2:J:322:ARG:HG2	2:J:326:ASN:CG	2.43	0.43
2:K:60:PRO:O	2:K:455:ARG:HD3	2.18	0.43
2:L:28:PHE:N	2:L:28:PHE:CD1	2.84	0.43
2:L:225:SER:C	2:L:227:PRO:HD2	2.44	0.43
2:L:240:THR:HG23	2:L:443:ILE:HG21	2.01	0.43
2:L:304:CYS:CA	2:L:307:THR:HG22	2.48	0.43
1:A:185:ALA:C	1:A:187:GLN:N	2.76	0.43
1:A:204:PHE:CD2	1:A:204:PHE:C	2.94	0.43
1:A:216:PHE:HA	1:A:217:PRO:HD3	1.73	0.43
1:A:237:VAL:C	1:A:239:GLY:N	2.73	0.43
1:A:463:LEU:HD23	1:A:463:LEU:HA	1.48	0.43
1:A:536:ASP:CG	1:A:538:THR:HG22	2.44	0.43
1:A:558:MET:C	1:A:560:ASP:N	2.72	0.43
1:A:575:VAL:HG13	1:A:759:LEU:CD2	2.48	0.43
1:A:896:PRO:HB2	1:C:1226:GLY:CA	2.49	0.43
1:A:1162:ILE:C	1:A:1164:ARG:H	2.27	0.43
1:A:1226:GLY:CA	1:E:896:PRO:HB2	2.49	0.43
1:A:1267:ARG:H	1:A:1267:ARG:HG2	1.71	0.43
1:A:1315:LEU:HD23	1:A:1315:LEU:HA	1.62	0.43
1:A:1394:VAL:CG1	1:A:1401:LEU:HD23	2.49	0.43
1:B:403:ASP:OD1	1:B:407:LYS:HG3	2.18	0.43
1:B:409:HIS:O	1:B:413:LEU:HD23	2.18	0.43
1:B:606:LEU:HA	1:B:606:LEU:HD23	1.78	0.43
1:B:643:ASN:HD22	1:B:665:THR:HG21	1.83	0.43
1:B:1105:VAL:HG23	2:G:54:PHE:CD1	2.54	0.43
1:B:1212:ASP:OD2	1:B:1243:GLY:C	2.61	0.43
1:B:1244:THR:OG1	1:B:1278:ALA:HB3	2.18	0.43
1:C:16:SER:O	1:C:20:LYS:CG	2.66	0.43
1:C:56:LYS:CG	1:C:71:LEU:HD22	2.49	0.43
1:C:143:GLN:CA	1:C:143:GLN:NE2	2.78	0.43
1:C:218:THR:CG2	1:C:221:LEU:HG	2.44	0.43
1:C:728:ILE:HD12	1:C:1047:MET:HE1	2.00	0.43
1:C:732:ARG:O	1:C:733:ALA:C	2.59	0.43
1:D:142:GLU:CD	1:D:142:GLU:N	2.76	0.43
1:D:409:HIS:O	1:D:413:LEU:HD23	2.18	0.43
1:D:511:ILE:HG22	1:D:512:ASP:H	1.79	0.43
1:D:677:GLU:OE2	1:D:681:ARG:NH1	2.52	0.43
1:D:1054:GLN:O	1:D:1055:VAL:C	2.60	0.43
1:D:1058:LEU:HD23	1:D:1058:LEU:HA	1.63	0.43
1:D:1212:ASP:OD2	1:D:1243:GLY:C	2.61	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:46:ILE:HG12	1:E:48:VAL:HG13	2.01	0.43
1:E:56:LYS:CG	1:E:71:LEU:HD22	2.49	0.43
1:E:182:MET:CE	1:E:217:PRO:O	2.62	0.43
1:E:185:ALA:O	1:E:186:GLU:C	2.57	0.43
1:E:248:GLU:CA	1:E:251:MET:HG2	2.31	0.43
1:E:274:SER:O	1:E:275:GLY:C	2.60	0.43
1:E:303:LEU:HD11	1:E:314:LYS:HG2	2.01	0.43
1:E:358:THR:CB	1:E:360:ASP:OD1	2.65	0.43
1:E:442:MET:CE	1:E:447:LEU:N	2.81	0.43
1:E:757:LYS:O	1:E:758:VAL:C	2.59	0.43
1:E:780:ARG:NH2	2:L:54:PHE:HD1	2.17	0.43
1:E:983:LEU:HD22	1:E:987:LEU:HG	2.01	0.43
1:E:990:ILE:O	1:E:990:ILE:HG13	2.19	0.43
1:E:1184:ASN:C	1:E:1186:ARG:N	2.76	0.43
4:E:2474:FMN:HM83	4:E:2474:FMN:HM71	1.69	0.43
1:F:172:LEU:C	1:F:172:LEU:HD12	2.43	0.43
1:F:364:ILE:HD12	1:F:374:ILE:HD11	2.00	0.43
1:F:420:VAL:HA	1:F:540:THR:HG21	2.00	0.43
1:F:511:ILE:CG2	1:F:512:ASP:N	2.74	0.43
1:F:520:MET:HE3	1:F:705:LEU:HB3	2.00	0.43
1:F:550:LEU:HD13	1:F:555:PHE:HA	2.01	0.43
1:F:677:GLU:O	1:F:678:ARG:C	2.62	0.43
1:F:677:GLU:OE2	1:F:681:ARG:NH1	2.52	0.43
1:F:1374:VAL:HG12	1:F:1375:ILE:N	2.32	0.43
1:F:1458:VAL:HA	1:F:1459:PRO:HD3	1.90	0.43
2:G:93:ILE:HG23	2:G:94:CYS:N	2.33	0.43
2:G:197:LYS:CB	2:G:273:LEU:HG	2.48	0.43
2:G:229:LEU:HD22	2:G:236:VAL:HG12	2.00	0.43
2:G:302:MET:HE1	2:G:334:VAL:N	2.34	0.43
2:H:31:ILE:HG12	2:H:193:PHE:CD1	2.54	0.43
2:H:68:TRP:CH2	2:H:124:GLU:OE1	2.72	0.43
2:H:137:VAL:CG1	2:H:138:LYS:N	2.82	0.43
2:H:295:LEU:HD21	2:H:319:LEU:HD13	1.99	0.43
2:H:306:ARG:NH1	2:H:336:HIS:HB2	2.34	0.43
2:H:324:ARG:HH11	2:H:324:ARG:CB	2.32	0.43
2:H:449:LEU:HD23	2:H:452:TRP:H	1.83	0.43
2:I:29:ALA:O	2:I:193:PHE:HB2	2.19	0.43
2:I:162:ALA:HB3	2:I:237:LEU:CD1	2.49	0.43
2:I:302:MET:HE1	2:I:334:VAL:N	2.34	0.43
2:I:322:ARG:HG2	2:I:326:ASN:CG	2.43	0.43
2:I:350:PRO:HD2	2:I:374:ALA:CB	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:430:LYS:HE3	2:I:439:ALA:O	2.18	0.43
2:J:29:ALA:O	2:J:193:PHE:HB2	2.19	0.43
2:J:146:LEU:N	2:J:146:LEU:CD2	2.81	0.43
2:J:181:ARG:NH2	2:J:188:TYR:CD1	2.86	0.43
2:J:201:GLU:HA	2:J:204:VAL:CG1	2.49	0.43
2:J:317:LYS:CE	2:J:345:ILE:CG1	2.95	0.43
2:K:31:ILE:HD11	2:K:194:LYS:HG2	2.00	0.43
2:K:92:GLU:HG3	2:K:203:ARG:NH1	2.34	0.43
2:K:324:ARG:HH11	2:K:324:ARG:CB	2.32	0.43
2:L:29:ALA:O	2:L:193:PHE:HB2	2.19	0.43
2:L:94:CYS:SG	2:L:450:VAL:HG22	2.59	0.43
2:L:153:ILE:CG1	2:L:220:VAL:HG22	2.49	0.43
2:L:181:ARG:NH2	2:L:188:TYR:CD1	2.86	0.43
2:L:207:LEU:HD12	2:L:212:VAL:CG1	2.49	0.43
2:L:302:MET:CE	2:L:334:VAL:CA	2.95	0.43
2:L:388:PHE:CD2	2:L:390:VAL:CG1	2.95	0.43
1:A:56:LYS:CG	1:A:71:LEU:HD22	2.49	0.43
1:A:218:THR:HG22	1:A:218:THR:O	2.08	0.43
1:A:228:LEU:HA	1:A:228:LEU:HD12	1.29	0.43
1:A:261:GLN:HE21	1:A:264:LYS:HD2	1.83	0.43
1:A:302:ALA:CA	1:A:347:ARG:NH1	2.81	0.43
1:A:309:THR:HB	1:A:314:LYS:HE3	2.00	0.43
1:A:1212:ASP:OD2	1:A:1243:GLY:CA	2.67	0.43
1:A:1349:ARG:NH1	1:A:1367:TYR:O	2.52	0.43
1:A:1420:TYR:OH	1:A:1466:LEU:CD2	2.66	0.43
1:B:120:LYS:HE2	1:B:120:LYS:HA	2.00	0.43
1:B:345:MET:HB2	1:B:345:MET:HE2	1.29	0.43
1:B:562:MET:CE	1:B:605:ILE:HD11	2.49	0.43
1:B:943:GLN:HE21	1:B:1033:SER:HA	1.83	0.43
1:B:1011:ALA:O	1:B:1014:ALA:N	2.52	0.43
1:B:1230:GLN:HB2	1:D:877:ARG:CD	2.48	0.43
1:C:432:THR:O	1:C:433:ALA:C	2.61	0.43
1:C:551:THR:H	1:C:554:GLU:CG	2.32	0.43
1:C:572:THR:CG2	1:C:615:ARG:HE	2.32	0.43
1:C:636:LEU:O	1:C:638:THR:N	2.51	0.43
1:C:949:VAL:O	1:C:950:THR:O	2.37	0.43
1:C:1011:ALA:O	1:C:1014:ALA:N	2.52	0.43
1:C:1159:ASN:O	1:C:1161:VAL:N	2.51	0.43
1:C:1264:ILE:HG22	1:C:1283:GLY:O	2.19	0.43
1:C:1301:SER:O	1:C:1301:SER:OG	2.37	0.43
1:C:1351:SER:OG	1:C:1369:THR:HB	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:165:ASN:O	1:D:166:ASP:CB	2.65	0.43
1:D:443:ASP:C	1:D:445:ALA:N	2.75	0.43
1:D:606:LEU:C	1:D:607:THR:HG22	2.43	0.43
1:D:850:ARG:NH1	1:D:878:ILE:HB	2.33	0.43
1:D:1077:ARG:C	1:D:1079:ILE:N	2.75	0.43
1:D:1184:ASN:O	1:D:1185:PRO:C	2.61	0.43
1:E:120:LYS:O	1:E:123:ALA:HB3	2.18	0.43
1:E:559:ARG:HD2	1:E:605:ILE:CD1	2.48	0.43
1:E:572:THR:CG2	1:E:615:ARG:HE	2.32	0.43
1:E:991:ASN:HA	1:E:992:PRO:HD2	1.84	0.43
1:E:1011:ALA:O	1:E:1014:ALA:N	2.52	0.43
1:E:1139:PHE:N	1:E:1139:PHE:CD1	2.86	0.43
1:E:1162:ILE:C	1:E:1164:ARG:H	2.27	0.43
1:E:1348:VAL:O	1:E:1348:VAL:CG1	2.65	0.43
1:E:1349:ARG:NH1	1:E:1367:TYR:O	2.52	0.43
1:E:1444:LEU:HD23	1:E:1444:LEU:HA	1.77	0.43
1:F:175:ARG:HH22	1:F:203:ASP:CG	2.27	0.43
1:F:466:HIS:CE1	1:F:684:PHE:HE1	2.33	0.43
1:F:562:MET:HE3	1:F:566:ALA:CB	2.44	0.43
1:F:780:ARG:HH21	2:I:54:PHE:HE1	1.59	0.43
1:F:897:ASP:OD1	1:F:899:ASN:N	2.52	0.43
1:F:970:PRO:HG2	1:F:970:PRO:O	2.19	0.43
1:F:1050:SER:O	1:F:1051:GLU:O	2.36	0.43
1:F:1435:THR:O	1:F:1436:GLN:C	2.61	0.43
2:G:89:ASN:HD22	2:G:89:ASN:N	2.17	0.43
2:G:188:TYR:OH	2:G:262:LEU:HD23	2.18	0.43
2:G:207:LEU:HD12	2:G:212:VAL:CG1	2.49	0.43
2:G:215:HIS:CD2	2:G:218:PHE:HD1	2.35	0.43
2:G:281:GLU:HG3	2:G:281:GLU:O	2.17	0.43
2:G:317:LYS:CE	2:G:345:ILE:CG1	2.95	0.43
2:G:324:ARG:HH11	2:G:324:ARG:CB	2.32	0.43
2:H:50:CYS:SG	2:H:109:VAL:HG21	2.58	0.43
2:H:80:ALA:HB3	2:H:127:ILE:HD11	1.96	0.43
2:H:181:ARG:NH2	2:H:188:TYR:CD1	2.86	0.43
2:H:302:MET:HE1	2:H:334:VAL:N	2.34	0.43
2:H:423:LEU:CD2	2:H:423:LEU:N	2.80	0.43
2:I:50:CYS:SG	2:I:109:VAL:HG21	2.58	0.43
2:I:178:ARG:HH12	2:I:243:TYR:HB2	1.83	0.43
2:I:371:VAL:CG2	2:I:386:SER:CB	2.94	0.43
2:I:462:GLU:O	2:I:465:HIS:HB3	2.18	0.43
2:J:50:CYS:SG	2:J:109:VAL:HG21	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:J:92:GLU:HG3	2:J:203:ARG:NH1	2.34	0.43
2:J:100:GLN:CD	7:J:482:SF4:S1	3.01	0.43
2:K:132:TRP:CG	2:K:202:ARG:HD2	2.52	0.43
2:K:201:GLU:HA	2:K:204:VAL:CG1	2.49	0.43
2:K:322:ARG:HG2	2:K:326:ASN:CG	2.43	0.43
2:L:54:PHE:HB2	2:L:107:ASN:O	2.18	0.43
2:L:163:ALA:HB3	2:L:207:LEU:HD21	2.00	0.43
1:A:274:SER:O	1:A:275:GLY:C	2.60	0.43
1:A:303:LEU:HD11	1:A:314:LYS:HG2	2.01	0.43
1:A:386:GLY:O	1:A:387:PRO:C	2.60	0.43
1:A:454:PHE:CD1	1:A:454:PHE:N	2.81	0.43
1:A:485:ILE:HD13	1:A:485:ILE:HG21	1.72	0.43
1:A:688:PRO:C	1:A:690:GLU:N	2.77	0.43
1:A:784:SER:HB3	1:A:785:GLY:H	1.66	0.43
1:A:1011:ALA:O	1:A:1014:ALA:N	2.52	0.43
1:A:1113:CYS:O	1:A:1114:PRO:C	2.61	0.43
1:A:1159:ASN:C	1:A:1161:VAL:N	2.77	0.43
1:A:1360:CYS:O	1:A:1361:GLY:O	2.35	0.43
1:A:1425:LYS:CD	1:A:1447:TRP:CD1	3.02	0.43
1:B:30:HIS:CD2	1:B:31:ARG:N	2.86	0.43
1:B:783:LYS:HD3	2:G:57:VAL:HG13	0.93	0.43
1:B:824:GLN:O	1:B:827:ASP:CB	2.58	0.43
1:B:833:SER:OG	1:B:834:THR:N	2.48	0.43
1:B:1062:ARG:HH11	1:B:1062:ARG:HD3	1.40	0.43
1:B:1085:LEU:HD23	1:B:1085:LEU:HA	1.65	0.43
1:C:545:LEU:HD23	1:C:545:LEU:HA	1.19	0.43
1:C:746:ILE:CG2	1:C:747:SER:N	2.76	0.43
1:C:944:LEU:HA	1:C:944:LEU:HD12	1.72	0.43
1:C:1108:CYS:SG	6:C:2476:F3S:S4	2.94	0.43
1:C:1139:PHE:N	1:C:1139:PHE:HD1	2.15	0.43
1:C:1212:ASP:OD2	1:C:1243:GLY:CA	2.67	0.43
1:C:1425:LYS:CD	1:C:1447:TRP:CD1	3.02	0.43
1:D:82:SER:O	1:D:83:LEU:C	2.60	0.43
1:D:248:GLU:C	1:D:250:ARG:H	2.27	0.43
1:D:390:MET:HG3	1:D:406:LEU:CD2	2.48	0.43
1:D:458:MET:O	1:D:461:MET:N	2.50	0.43
1:D:656:ALA:O	1:D:657:VAL:C	2.59	0.43
1:E:191:PHE:O	1:E:191:PHE:CD1	2.72	0.43
1:E:250:ARG:HH21	1:E:639:PHE:HE1	1.63	0.43
1:E:551:THR:H	1:E:554:GLU:CG	2.32	0.43
1:E:636:LEU:O	1:E:638:THR:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:819:LYS:HA	1:E:819:LYS:HD3	1.73	0.43
1:E:842:GLU:OE1	1:E:1156:ARG:NH1	2.52	0.43
1:E:1055:VAL:O	1:E:1056:LEU:C	2.59	0.43
1:E:1158:LEU:HD12	1:E:1158:LEU:HA	1.61	0.43
1:E:1173:ARG:HH22	1:E:1178:LEU:HD23	1.83	0.43
1:E:1264:ILE:HG22	1:E:1283:GLY:O	2.19	0.43
1:E:1468:VAL:O	1:E:1468:VAL:HG12	2.15	0.43
1:F:30:HIS:HD2	1:F:31:ARG:H	1.65	0.43
1:F:890:ASP:HA	1:F:891:PRO:HD3	1.65	0.43
2:G:29:ALA:O	2:G:193:PHE:HB2	2.19	0.43
2:G:109:VAL:HG22	2:G:109:VAL:H	1.50	0.43
2:G:225:SER:C	2:G:227:PRO:HD2	2.44	0.43
2:G:241:GLY:O	2:G:443:ILE:HG22	2.19	0.43
2:H:71:LEU:HD22	2:H:74:GLU:HG3	2.01	0.43
2:H:197:LYS:CB	2:H:273:LEU:HG	2.48	0.43
2:H:264:TYR:CE1	2:H:311:GLN:NE2	2.87	0.43
2:H:319:LEU:C	2:H:319:LEU:CD2	2.91	0.43
2:I:146:LEU:N	2:I:146:LEU:CD2	2.81	0.43
2:I:306:ARG:NH1	2:I:336:HIS:HB2	2.34	0.43
2:I:449:LEU:HD22	2:I:452:TRP:CE2	2.53	0.43
2:J:69:LEU:HA	2:J:72:THR:HG22	2.00	0.43
2:J:302:MET:HE3	2:J:334:VAL:HA	1.99	0.43
2:J:322:ARG:CD	2:J:349:ALA:CB	2.94	0.43
2:K:50:CYS:SG	2:K:109:VAL:HG21	2.58	0.43
2:K:68:TRP:CH2	2:K:124:GLU:OE1	2.72	0.43
2:K:162:ALA:HB3	2:K:237:LEU:CD1	2.49	0.43
2:L:32:TYR:CE2	2:L:194:LYS:CA	3.02	0.43
2:L:93:ILE:HG23	2:L:94:CYS:N	2.33	0.43
2:L:281:GLU:HG3	2:L:281:GLU:O	2.17	0.43
2:L:324:ARG:HH11	2:L:324:ARG:CB	2.32	0.43
1:A:78:LEU:HB3	1:A:79:PRO:HD2	2.00	0.43
1:A:842:GLU:OE1	1:A:1156:ARG:NH1	2.52	0.43
1:A:903:TRP:CD1	1:A:903:TRP:N	2.86	0.43
1:A:1349:ARG:HG2	1:A:1349:ARG:NH1	2.31	0.43
1:B:111:PRO:C	1:B:112:ILE:CG2	2.91	0.43
1:B:284:MET:HE2	1:B:294:VAL:HG13	2.01	0.43
1:B:528:ASN:O	1:B:529:LEU:HD23	2.17	0.43
1:B:555:PHE:CD1	1:B:556:ARG:N	2.77	0.43
1:B:873:VAL:O	1:B:874:ALA:C	2.60	0.43
1:B:1133:GLU:H	1:B:1133:GLU:CD	2.27	0.43
1:B:1366:GLU:OE2	1:B:1367:TYR:CE2	2.71	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:182:MET:CE	1:C:217:PRO:O	2.62	0.43
1:C:485:ILE:O	1:C:486:ALA:C	2.60	0.43
1:C:656:ALA:O	1:C:657:VAL:C	2.61	0.43
1:C:828:LEU:HD22	1:C:1172:SER:CB	2.38	0.43
1:C:840:VAL:O	1:C:841:ASP:C	2.61	0.43
1:C:1156:ARG:O	1:C:1157:SER:HB3	2.18	0.43
1:D:402:ARG:HH11	1:D:402:ARG:HD3	1.69	0.43
1:D:562:MET:CE	1:D:605:ILE:HD11	2.49	0.43
1:D:743:VAL:HG11	1:D:745:ARG:HG3	2.00	0.43
1:D:978:GLU:H	1:D:978:GLU:HG2	1.21	0.43
1:D:1317:THR:HG22	1:D:1318:ASN:CA	2.46	0.43
1:D:1336:LEU:HD23	1:D:1355:VAL:CG1	2.48	0.43
1:E:97:ILE:HA	1:E:151:ILE:HD13	2.01	0.43
1:E:214:ASN:O	1:E:1015:LYS:CE	2.53	0.43
1:E:237:VAL:C	1:E:239:GLY:N	2.73	0.43
1:E:770:VAL:O	1:E:770:VAL:HG12	2.19	0.43
1:E:990:ILE:O	1:E:1248:SER:OG	2.36	0.43
1:E:991:ASN:OD1	1:E:991:ASN:C	2.60	0.43
1:E:1460:LYS:C	1:E:1462:MET:N	2.77	0.43
1:F:246:ALA:O	1:F:247:HIS:C	2.61	0.43
1:F:390:MET:HG3	1:F:406:LEU:CD2	2.48	0.43
1:F:533:LEU:HD23	1:F:533:LEU:HA	1.43	0.43
1:F:606:LEU:C	1:F:607:THR:HG22	2.43	0.43
1:F:843:VAL:HG11	1:F:1147:ARG:HB3	2.00	0.43
1:F:913:GLY:CA	1:F:1349:ARG:CD	2.94	0.43
1:F:963:VAL:CG1	1:F:964:MET:H	2.25	0.43
1:F:964:MET:O	1:F:965:LEU:HD23	2.18	0.43
1:F:1155:PHE:CZ	1:F:1167:LEU:HD21	2.54	0.43
2:G:32:TYR:CE2	2:G:194:LYS:CA	3.02	0.43
2:G:166:LEU:HD22	2:G:169:LYS:HE2	1.99	0.43
2:G:240:THR:HG23	2:G:443:ILE:HG21	2.01	0.43
2:G:302:MET:HE1	2:G:334:VAL:HA	1.99	0.43
2:G:350:PRO:HD2	2:G:374:ALA:CB	2.49	0.43
2:G:430:LYS:CE	2:G:456:ASP:HB3	2.43	0.43
2:G:469:LYS:HZ3	2:G:476:VAL:CA	2.27	0.43
2:H:32:TYR:HB3	2:H:34:ARG:HG2	2.01	0.43
2:H:93:ILE:HD11	2:H:195:LEU:CD2	2.30	0.43
2:H:225:SER:C	2:H:227:PRO:HD2	2.44	0.43
2:H:350:PRO:HD2	2:H:374:ALA:CB	2.49	0.43
2:H:415:LEU:CD2	2:H:416:LYS:N	2.82	0.43
2:I:109:VAL:HG22	2:I:109:VAL:H	1.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:132:TRP:CG	2:I:202:ARG:HD2	2.52	0.43
2:I:201:GLU:HA	2:I:204:VAL:CG1	2.49	0.43
2:I:225:SER:C	2:I:227:PRO:HD2	2.44	0.43
2:I:324:ARG:HH11	2:I:324:ARG:CB	2.32	0.43
2:J:324:ARG:HH11	2:J:324:ARG:CB	2.32	0.43
2:K:32:TYR:HB3	2:K:34:ARG:HG2	2.01	0.43
2:K:71:LEU:HD22	2:K:74:GLU:HG3	2.01	0.43
2:K:207:LEU:HD12	2:K:212:VAL:CG1	2.49	0.43
2:K:241:GLY:O	2:K:443:ILE:HG22	2.19	0.43
2:K:306:ARG:NH1	2:K:336:HIS:HB2	2.34	0.43
2:K:317:LYS:CE	2:K:345:ILE:CD1	2.94	0.43
2:K:447:ALA:HB1	2:K:452:TRP:CD2	2.50	0.43
2:L:31:ILE:HG12	2:L:193:PHE:CD1	2.54	0.43
2:L:69:LEU:HA	2:L:72:THR:HG22	2.00	0.43
2:L:264:TYR:CE1	2:L:311:GLN:NE2	2.87	0.43
2:L:306:ARG:HD3	2:L:336:HIS:CB	2.45	0.43
2:L:405:ASP:OD1	2:L:407:PRO:HD2	2.18	0.43
2:L:406:LEU:CD2	2:L:406:LEU:N	2.82	0.43
1:A:47:HIS:ND1	1:A:47:HIS:C	2.77	0.42
1:A:210:ARG:HA	3:A:2473:OMT:HE3	2.01	0.42
1:A:509:PRO:HB3	1:A:975:TYR:CD1	2.53	0.42
1:A:510:PRO:CD	1:A:970:PRO:HB3	2.37	0.42
1:A:802:VAL:HG22	1:A:802:VAL:H	1.50	0.42
1:A:1139:PHE:N	1:A:1139:PHE:HD1	2.15	0.42
1:A:1190:VAL:C	1:A:1192:PRO:HD3	2.44	0.42
1:B:165:ASN:O	1:B:166:ASP:CB	2.65	0.42
1:B:172:LEU:C	1:B:172:LEU:HD12	2.43	0.42
1:B:206:ILE:HG21	1:B:206:ILE:HD13	1.76	0.42
1:B:228:LEU:HA	1:B:228:LEU:HD12	1.88	0.42
1:B:612:GLY:O	1:B:762:HIS:HE1	1.99	0.42
1:B:885:GLY:O	1:B:887:GLY:N	2.52	0.42
1:B:1032:ALA:O	1:B:1033:SER:HB2	2.19	0.42
1:B:1050:SER:O	1:B:1051:GLU:O	2.36	0.42
1:C:46:ILE:HG12	1:C:48:VAL:HG13	2.01	0.42
1:C:210:ARG:HA	3:C:2473:OMT:HE3	2.01	0.42
1:C:1113:CYS:O	1:C:1114:PRO:C	2.61	0.42
1:C:1394:VAL:CG1	1:C:1401:LEU:HD23	2.49	0.42
1:C:1460:LYS:C	1:C:1462:MET:N	2.77	0.42
1:C:1468:VAL:HG12	1:C:1469:PRO:O	2.19	0.42
1:D:81:ILE:O	1:D:81:ILE:CG2	2.67	0.42
1:D:146:LEU:C	1:D:146:LEU:CD1	2.87	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:193:PRO:C	1:D:195:LEU:N	2.75	0.42
1:D:216:PHE:HA	1:D:217:PRO:HD3	1.76	0.42
1:D:251:MET:CE	1:D:533:LEU:HD11	2.49	0.42
1:D:511:ILE:HG21	1:D:511:ILE:HD13	1.76	0.42
1:D:550:LEU:HD13	1:D:555:PHE:HA	2.01	0.42
1:D:897:ASP:OD1	1:D:899:ASN:N	2.52	0.42
1:D:1435:THR:O	1:D:1436:GLN:C	2.61	0.42
1:E:438:GLU:OE1	1:E:553:ALA:HB2	2.18	0.42
1:E:591:GLN:O	1:E:594:GLU:N	2.52	0.42
1:E:903:TRP:N	1:E:903:TRP:CD1	2.86	0.42
1:E:985:TYR:CD1	1:E:1207:VAL:HG11	2.54	0.42
1:E:1026:ASN:ND2	1:E:1027:SER:N	2.66	0.42
1:E:1109:HIS:ND1	1:E:1109:HIS:N	2.45	0.42
1:E:1339:ALA:HB2	1:E:1435:THR:OG1	2.19	0.42
1:E:1468:VAL:HG12	1:E:1469:PRO:O	2.19	0.42
1:F:666:VAL:HG13	1:F:667:ASN:N	2.34	0.42
1:F:986:ASP:OD2	1:F:1298:LYS:NZ	2.48	0.42
1:F:1032:ALA:O	1:F:1033:SER:HB2	2.19	0.42
2:G:200:VAL:HA	2:G:203:ARG:HD2	1.97	0.42
2:H:29:ALA:O	2:H:193:PHE:HB2	2.19	0.42
2:H:71:LEU:CD1	2:H:80:ALA:N	2.81	0.42
2:H:153:ILE:CG1	2:H:220:VAL:HG22	2.49	0.42
2:H:195:LEU:HD12	2:H:196:GLU:O	2.19	0.42
2:H:306:ARG:HD3	2:H:336:HIS:CB	2.45	0.42
2:I:32:TYR:CE2	2:I:194:LYS:CA	3.02	0.42
2:I:59:CYS:SG	2:I:61:VAL:CG1	3.05	0.42
2:I:68:TRP:CH2	2:I:124:GLU:OE1	2.72	0.42
2:I:415:LEU:CD2	2:I:416:LYS:N	2.82	0.42
2:I:454:ILE:CD1	2:I:458:ARG:HG2	2.48	0.42
2:I:469:LYS:HZ2	2:I:476:VAL:HB	1.82	0.42
2:J:32:TYR:HB3	2:J:34:ARG:HG2	2.01	0.42
2:J:61:VAL:HG21	2:J:87:THR:C	2.43	0.42
2:J:186:LEU:CD2	2:J:186:LEU:C	2.92	0.42
2:J:367:ILE:O	2:J:390:VAL:HG23	2.20	0.42
2:K:29:ALA:O	2:K:193:PHE:HB2	2.19	0.42
2:K:32:TYR:CE2	2:K:194:LYS:CA	3.02	0.42
2:K:94:CYS:SG	2:K:450:VAL:HG22	2.59	0.42
2:K:292:VAL:HG21	2:K:394:LEU:HD13	1.97	0.42
2:K:322:ARG:CD	2:K:349:ALA:CA	2.98	0.42
2:K:350:PRO:HD2	2:K:374:ALA:CB	2.49	0.42
2:L:89:ASN:HD22	2:L:89:ASN:N	2.17	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:195:LEU:HD12	2:L:196:GLU:O	2.19	0.42
2:L:295:LEU:HD21	2:L:319:LEU:HD13	1.99	0.42
1:A:295:LYS:CE	1:A:299:VAL:CG1	2.89	0.42
1:A:629:THR:O	1:A:631:LEU:N	2.53	0.42
1:A:956:LEU:HA	1:A:956:LEU:HD23	1.70	0.42
1:B:159:VAL:O	1:B:160:LYS:C	2.62	0.42
1:B:1124:LEU:HD12	1:B:1124:LEU:HA	1.30	0.42
1:C:260:MET:HE2	1:C:260:MET:HB2	1.54	0.42
1:C:284:MET:HB3	1:C:284:MET:HE3	1.72	0.42
1:C:330:PRO:HB3	1:C:350:LEU:HB3	2.01	0.42
1:C:385:LEU:HD12	1:C:389:GLU:C	2.44	0.42
1:C:397:SER:O	1:C:398:GLY:C	2.58	0.42
1:C:452:GLN:CG	1:C:764:THR:HG22	2.48	0.42
1:C:605:ILE:HA	1:C:643:ASN:O	2.20	0.42
1:C:666:VAL:HG12	1:C:667:ASN:N	2.34	0.42
1:C:819:LYS:HD3	1:C:819:LYS:HA	1.73	0.42
1:C:990:ILE:O	1:C:990:ILE:HG13	2.19	0.42
1:C:1354:THR:HG23	1:C:1372:THR:HB	2.01	0.42
1:C:1420:TYR:OH	1:C:1466:LEU:CD2	2.66	0.42
1:C:1458:VAL:HA	1:C:1459:PRO:HD3	1.66	0.42
1:D:12:LYS:HA	1:D:13:PRO:HD3	1.75	0.42
1:D:159:VAL:O	1:D:160:LYS:C	2.61	0.42
1:D:366:GLY:HA3	1:D:371:MET:HE2	2.01	0.42
1:D:442:MET:HB2	1:D:673:GLU:HG2	2.01	0.42
1:D:547:SER:C	1:D:549:VAL:N	2.77	0.42
1:D:689:LEU:HD12	1:D:689:LEU:C	2.18	0.42
1:D:843:VAL:HG11	1:D:1147:ARG:HB3	2.00	0.42
1:D:1244:THR:OG1	1:D:1278:ALA:HB3	2.18	0.42
1:D:1375:ILE:O	1:D:1377:GLY:N	2.52	0.42
1:D:1430:GLU:O	1:D:1431:HIS:C	2.62	0.42
1:E:59:VAL:HG22	1:E:105:TYR:CD2	2.25	0.42
1:E:125:ARG:HG3	1:E:219:TRP:CZ2	2.53	0.42
1:E:194:ASP:HB3	1:E:200:PHE:CE1	2.54	0.42
1:E:485:ILE:HD13	1:E:485:ILE:HG21	1.72	0.42
1:E:917:VAL:CG1	1:E:922:LEU:HD21	2.50	0.42
1:E:992:PRO:HA	1:E:1204:ARG:HH22	1.84	0.42
1:F:485:ILE:HG21	1:F:485:ILE:HD13	1.68	0.42
1:F:1105:VAL:HG23	2:I:54:PHE:CD1	2.54	0.42
1:F:1417:VAL:CG1	1:F:1419:HIS:H	2.28	0.42
1:F:1467:GLU:O	1:F:1469:PRO:HD3	2.18	0.42
2:G:153:ILE:CG1	2:G:220:VAL:HG22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:201:GLU:HA	2:G:204:VAL:CG1	2.49	0.42
2:H:100:GLN:CD	7:H:482:SF4:S1	3.01	0.42
2:H:207:LEU:HD12	2:H:212:VAL:CG1	2.49	0.42
2:H:229:LEU:HD22	2:H:236:VAL:HG12	2.00	0.42
2:H:358:VAL:CG2	2:H:365:VAL:CG1	2.94	0.42
2:H:406:LEU:CD2	2:H:406:LEU:N	2.82	0.42
2:H:449:LEU:HD22	2:H:452:TRP:CE2	2.53	0.42
2:I:71:LEU:HD22	2:I:74:GLU:HG3	2.01	0.42
2:J:317:LYS:HE3	2:J:345:ILE:HG13	2.00	0.42
2:K:110:ILE:HD11	2:K:118:VAL:CA	2.48	0.42
2:K:186:LEU:CD2	2:K:186:LEU:C	2.92	0.42
2:K:229:LEU:HD22	2:K:236:VAL:HG12	2.00	0.42
2:K:264:TYR:CE1	2:K:311:GLN:NE2	2.87	0.42
2:K:302:MET:HE1	2:K:334:VAL:N	2.34	0.42
2:K:367:ILE:O	2:K:390:VAL:HG23	2.19	0.42
2:K:406:LEU:CD2	2:K:406:LEU:N	2.82	0.42
2:K:415:LEU:CD2	2:K:416:LYS:N	2.82	0.42
2:L:50:CYS:SG	2:L:109:VAL:HG21	2.58	0.42
2:L:109:VAL:HG22	2:L:109:VAL:H	1.50	0.42
2:L:151:GLY:O	2:L:236:VAL:HA	2.20	0.42
2:L:186:LEU:CD2	2:L:186:LEU:C	2.92	0.42
2:L:264:TYR:CE2	2:L:307:THR:CG2	2.94	0.42
2:L:302:MET:HE1	2:L:334:VAL:N	2.34	0.42
2:L:319:LEU:C	2:L:319:LEU:CD2	2.91	0.42
2:L:447:ALA:HB1	2:L:452:TRP:CD2	2.50	0.42
1:A:454:PHE:CD2	1:A:648:GLU:CB	3.00	0.42
1:A:522:LEU:HA	1:A:716:ILE:HG22	2.01	0.42
1:A:551:THR:H	1:A:554:GLU:CG	2.32	0.42
1:A:1184:ASN:C	1:A:1186:ARG:N	2.76	0.42
1:A:1458:VAL:CG1	1:A:1459:PRO:CD	2.97	0.42
1:B:62:ILE:O	1:B:62:ILE:CG2	2.68	0.42
1:B:193:PRO:C	1:B:195:LEU:N	2.75	0.42
1:B:260:MET:HE2	1:B:260:MET:HB2	1.50	0.42
1:B:307:GLN:HE21	1:B:1403:LEU:CD2	2.32	0.42
1:B:387:PRO:HD3	1:B:1344:GLU:CD	2.42	0.42
1:B:485:ILE:HG21	1:B:485:ILE:HD13	1.68	0.42
1:B:609:GLU:C	1:B:611:MET:N	2.77	0.42
1:B:637:ARG:HH11	1:B:637:ARG:HD3	1.69	0.42
1:B:743:VAL:HG11	1:B:745:ARG:HG3	2.00	0.42
1:B:770:VAL:O	1:B:770:VAL:CG1	2.67	0.42
1:B:868:HIS:HB3	1:B:869:GLY:H	1.57	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1139:PHE:O	1:B:1140:THR:C	2.59	0.42
1:C:29:TRP:C	1:C:31:ARG:N	2.75	0.42
1:C:82:SER:O	1:C:83:LEU:C	2.62	0.42
1:C:400:LEU:HD12	1:C:400:LEU:HA	1.76	0.42
1:C:435:LEU:C	1:C:437:GLY:N	2.77	0.42
1:C:447:LEU:CD1	1:C:451:GLN:CG	2.96	0.42
1:C:486:ALA:O	1:C:487:VAL:C	2.58	0.42
1:C:731:SER:O	1:C:734:LEU:HB3	2.18	0.42
1:C:842:GLU:OE1	1:C:1156:ARG:NH1	2.52	0.42
1:C:985:TYR:CD1	1:C:1207:VAL:HG11	2.54	0.42
1:C:1113:CYS:HB3	1:C:1119:VAL:CG1	2.49	0.42
1:C:1416:GLU:O	1:C:1417:VAL:C	2.61	0.42
1:D:116:ILE:HD11	1:D:191:PHE:HB2	2.01	0.42
1:D:319:TYR:O	1:D:320:CYS:C	2.61	0.42
1:D:335:MET:HE3	1:D:335:MET:HB2	1.92	0.42
1:D:345:MET:HB2	1:D:345:MET:HE2	1.29	0.42
1:D:505:GLN:HE22	1:D:1001:VAL:N	2.17	0.42
1:D:509:PRO:HA	1:D:510:PRO:HD3	1.77	0.42
1:D:513:SER:CB	1:D:520:MET:CE	2.79	0.42
1:D:574:PRO:HG2	1:D:574:PRO:O	2.19	0.42
1:D:677:GLU:O	1:D:678:ARG:C	2.62	0.42
1:D:1281:VAL:HA	1:D:1301:SER:O	2.20	0.42
1:D:1435:THR:HG23	1:D:1437:SER:N	2.34	0.42
1:E:30:HIS:N	1:E:30:HIS:CD2	2.85	0.42
1:E:385:LEU:HD12	1:E:389:GLU:C	2.44	0.42
1:E:636:LEU:HD12	1:E:636:LEU:HA	1.61	0.42
1:E:1349:ARG:HG2	1:E:1349:ARG:NH1	2.31	0.42
1:E:1447:TRP:NE1	1:E:1451:VAL:HG21	2.35	0.42
1:E:1458:VAL:CG1	1:E:1459:PRO:CD	2.97	0.42
1:F:51:PRO:HD2	1:F:55:PHE:HD2	1.84	0.42
1:F:307:GLN:HE21	1:F:1403:LEU:CD2	2.32	0.42
1:F:325:GLU:HA	1:F:326:PRO:HD3	1.92	0.42
1:F:1007:GLY:O	1:F:1008:THR:C	2.63	0.42
1:F:1250:VAL:HG13	1:F:1259:LEU:HD12	2.01	0.42
1:F:1281:VAL:HA	1:F:1301:SER:O	2.20	0.42
1:F:1366:GLU:OE2	1:F:1367:TYR:CE2	2.71	0.42
2:G:32:TYR:HB3	2:G:34:ARG:HG2	2.01	0.42
2:G:68:TRP:CH2	2:G:124:GLU:OE1	2.72	0.42
2:G:151:GLY:O	2:G:236:VAL:HA	2.19	0.42
2:G:302:MET:CE	2:G:334:VAL:CA	2.95	0.42
2:G:322:ARG:CD	2:G:349:ALA:CA	2.98	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:132:TRP:CG	2:H:202:ARG:HD2	2.52	0.42
2:H:255:LEU:HD22	2:H:255:LEU:HA	1.92	0.42
2:H:367:ILE:O	2:H:390:VAL:HG23	2.20	0.42
2:H:465:HIS:NE2	2:H:469:LYS:CE	2.83	0.42
2:I:31:ILE:HG12	2:I:193:PHE:CD1	2.54	0.42
2:I:186:LEU:CD2	2:I:186:LEU:C	2.92	0.42
2:I:195:LEU:HD12	2:I:196:GLU:O	2.19	0.42
2:I:277:VAL:CG1	2:I:278:GLU:N	2.81	0.42
2:I:322:ARG:CD	2:I:349:ALA:CB	2.94	0.42
2:I:406:LEU:CD2	2:I:406:LEU:N	2.82	0.42
2:I:449:LEU:HD12	8:I:484:FAD:O2	2.20	0.42
2:J:60:PRO:O	2:J:455:ARG:HD3	2.18	0.42
2:J:331:GLN:HA	2:J:334:VAL:HG21	1.98	0.42
2:J:415:LEU:CD2	2:J:416:LYS:N	2.82	0.42
2:J:465:HIS:NE2	2:J:469:LYS:CE	2.83	0.42
2:K:89:ASN:HD22	2:K:89:ASN:N	2.17	0.42
2:K:264:TYR:CE2	2:K:307:THR:CG2	2.94	0.42
2:K:281:GLU:HG3	2:K:281:GLU:O	2.17	0.42
2:L:71:LEU:CD1	2:L:80:ALA:N	2.81	0.42
2:L:100:GLN:CD	7:L:482:SF4:S1	3.01	0.42
2:L:162:ALA:HB3	2:L:237:LEU:CD1	2.49	0.42
2:L:178:ARG:HH12	2:L:243:TYR:HB2	1.83	0.42
2:L:367:ILE:HD12	2:L:369:LEU:HD11	1.93	0.42
2:L:387:GLU:CG	2:L:388:PHE:N	2.82	0.42
1:A:29:TRP:C	1:A:31:ARG:N	2.75	0.42
1:A:133:VAL:HG12	1:A:134:GLY:N	2.34	0.42
1:A:358:THR:CB	1:A:360:ASP:OD1	2.65	0.42
1:A:420:VAL:CG1	1:A:421:GLN:N	2.81	0.42
1:A:468:MET:O	1:A:472:GLY:N	2.51	0.42
1:A:591:GLN:O	1:A:594:GLU:N	2.52	0.42
1:A:780:ARG:NH2	2:J:54:PHE:HD1	2.16	0.42
1:A:983:LEU:HD22	1:A:987:LEU:HG	2.01	0.42
1:B:442:MET:HB2	1:B:673:GLU:HG2	2.00	0.42
1:B:540:THR:O	1:B:542:LEU:HG	2.20	0.42
1:B:559:ARG:O	1:B:559:ARG:HG3	2.17	0.42
1:B:559:ARG:O	1:B:559:ARG:NE	2.46	0.42
1:B:647:ALA:HB2	1:B:669:TYR:OH	2.19	0.42
1:B:861:GLY:O	1:B:862:ALA:C	2.62	0.42
1:B:1007:GLY:O	1:B:1008:THR:C	2.63	0.42
1:B:1155:PHE:CZ	1:B:1167:LEU:HD21	2.54	0.42
1:B:1282:GLN:HA	1:B:1302:GLY:O	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1375:ILE:O	1:B:1377:GLY:N	2.52	0.42
1:C:352:PRO:HB2	1:C:367:SER:O	2.20	0.42
1:C:464:ILE:C	1:C:467:PRO:HD2	2.45	0.42
1:C:602:THR:C	1:C:640:THR:HG23	2.43	0.42
1:C:688:PRO:C	1:C:690:GLU:N	2.77	0.42
1:C:1121:ASP:OD1	1:C:1121:ASP:C	2.62	0.42
1:C:1190:VAL:C	1:C:1192:PRO:HD3	2.44	0.42
1:D:139:VAL:CG1	1:D:140:SER:N	2.35	0.42
1:D:802:VAL:CG2	1:D:1137:ASN:HB2	2.46	0.42
1:D:1044:PRO:HG2	1:D:1047:MET:HE3	2.01	0.42
1:D:1315:LEU:HA	1:D:1315:LEU:HD23	1.69	0.42
1:D:1471:HIS:O	1:D:1472:LEU:CB	2.58	0.42
1:E:391:ILE:O	1:E:391:ILE:CG2	2.63	0.42
1:E:522:LEU:HA	1:E:716:ILE:HG22	2.01	0.42
1:E:666:VAL:HG12	1:E:667:ASN:N	2.34	0.42
1:E:839:PRO:HG2	1:E:842:GLU:HB2	2.00	0.42
1:F:56:LYS:CG	1:F:71:LEU:HD22	2.48	0.42
1:F:116:ILE:HD11	1:F:191:PHE:HB2	2.01	0.42
1:F:198:GLU:H	1:F:198:GLU:HG3	1.71	0.42
1:F:260:MET:HE2	1:F:260:MET:HB2	1.50	0.42
1:F:348:ASN:O	1:F:349:GLY:C	2.63	0.42
1:F:562:MET:CE	1:F:605:ILE:HD11	2.49	0.42
1:F:885:GLY:O	1:F:887:GLY:N	2.52	0.42
1:F:1097:LEU:HA	1:F:1097:LEU:HD23	1.69	0.42
2:G:264:TYR:CE1	2:G:311:GLN:NE2	2.87	0.42
2:G:276:THR:HG22	2:G:277:VAL:N	2.31	0.42
2:H:181:ARG:CD	2:H:187:VAL:CG1	2.94	0.42
2:H:240:THR:HG23	2:H:443:ILE:HG21	2.01	0.42
2:H:252:GLY:HA3	2:H:258:ILE:HG21	2.02	0.42
2:H:322:ARG:CD	2:H:349:ALA:CA	2.98	0.42
2:I:71:LEU:CD1	2:I:80:ALA:N	2.81	0.42
2:I:90:PHE:HZ	2:I:160:LEU:CB	2.33	0.42
2:I:151:GLY:O	2:I:236:VAL:HA	2.20	0.42
2:I:207:LEU:HD12	2:I:212:VAL:CG1	2.49	0.42
2:I:465:HIS:NE2	2:I:469:LYS:CE	2.83	0.42
2:J:350:PRO:HD2	2:J:374:ALA:CB	2.49	0.42
2:K:252:GLY:C	2:K:258:ILE:HG21	2.45	0.42
2:K:269:ASN:HD22	2:K:273:LEU:HD23	1.85	0.42
2:K:378:GLN:O	2:K:378:GLN:HG2	2.20	0.42
2:K:430:LYS:HE3	2:K:430:LYS:HB2	1.80	0.42
2:K:449:LEU:CD2	2:K:451:VAL:HG13	2.27	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:32:TYR:HB3	2:L:34:ARG:HG2	2.01	0.42
2:L:229:LEU:HD22	2:L:236:VAL:HG12	2.00	0.42
2:L:241:GLY:O	2:L:443:ILE:HG22	2.19	0.42
2:L:322:ARG:CD	2:L:349:ALA:CA	2.98	0.42
2:L:378:GLN:O	2:L:378:GLN:HG2	2.20	0.42
2:L:465:HIS:NE2	2:L:469:LYS:CE	2.83	0.42
1:A:46:ILE:HG12	1:A:48:VAL:HG13	2.01	0.42
1:A:111:PRO:C	1:A:112:ILE:CG2	2.93	0.42
1:A:194:ASP:HB3	1:A:200:PHE:CE1	2.54	0.42
1:A:452:GLN:CG	1:A:764:THR:HG22	2.48	0.42
1:A:456:LEU:HA	1:A:456:LEU:HD23	1.65	0.42
1:A:602:THR:C	1:A:640:THR:HG23	2.43	0.42
1:A:928:LEU:HA	1:A:928:LEU:HD23	1.73	0.42
1:A:1026:ASN:ND2	1:A:1027:SER:N	2.66	0.42
1:A:1227:GLU:CD	1:E:902:ASN:ND2	2.75	0.42
1:A:1339:ALA:HB2	1:A:1435:THR:OG1	2.19	0.42
1:B:117:ILE:HD13	1:B:117:ILE:HG23	1.35	0.42
1:B:253:HIS:CE1	1:B:254:PRO:CG	3.03	0.42
1:B:1044:PRO:HG2	1:B:1047:MET:HE3	2.01	0.42
1:B:1099:ALA:C	1:B:1101:GLY:H	2.26	0.42
1:B:1222:LEU:HD12	1:B:1222:LEU:O	2.20	0.42
1:B:1435:THR:HG23	1:B:1437:SER:N	2.34	0.42
1:C:47:HIS:C	1:C:47:HIS:ND1	2.77	0.42
1:C:216:PHE:CE1	1:D:81:ILE:HD13	2.54	0.42
1:C:420:VAL:CG1	1:C:421:GLN:N	2.81	0.42
1:C:454:PHE:CD2	1:C:648:GLU:CB	3.00	0.42
1:C:690:GLU:O	1:C:691:LYS:C	2.62	0.42
1:C:871:LEU:HA	1:C:871:LEU:HD23	1.68	0.42
1:C:992:PRO:HA	1:C:1204:ARG:HH22	1.84	0.42
1:C:1026:ASN:ND2	1:C:1026:ASN:C	2.77	0.42
1:C:1102:CYS:SG	1:C:1104:MET:N	2.89	0.42
1:C:1162:ILE:C	1:C:1164:ARG:H	2.27	0.42
1:D:307:GLN:HE21	1:D:1403:LEU:CD2	2.32	0.42
1:D:647:ALA:HB2	1:D:669:TYR:OH	2.19	0.42
1:D:794:VAL:CG2	1:D:817:VAL:HG23	2.49	0.42
1:D:934:GLN:HE21	1:D:934:GLN:HB2	1.58	0.42
1:D:943:GLN:HE21	1:D:1033:SER:HA	1.83	0.42
1:D:957:ARG:HD2	1:D:965:LEU:HD12	2.02	0.42
1:D:1155:PHE:CZ	1:D:1167:LEU:HD21	2.54	0.42
1:D:1216:VAL:HG13	1:D:1249:MET:HE2	1.96	0.42
1:D:1222:LEU:N	1:D:1229:MET:HE2	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:210:ARG:HA	3:E:2473:OMT:HE3	2.01	0.42
1:E:485:ILE:O	1:E:486:ALA:C	2.60	0.42
1:E:893:ARG:O	1:E:904:ASN:HB2	2.20	0.42
1:E:1394:VAL:CG1	1:E:1401:LEU:HD23	2.49	0.42
1:F:82:SER:O	1:F:83:LEU:C	2.60	0.42
1:F:293:MET:HG2	1:F:410:LEU:HD23	2.00	0.42
1:F:1058:LEU:HA	1:F:1058:LEU:HD23	1.64	0.42
1:F:1133:GLU:H	1:F:1133:GLU:CD	2.27	0.42
1:F:1153:LEU:HA	1:F:1153:LEU:HD23	1.42	0.42
1:F:1164:ARG:HB3	1:F:1167:LEU:CD1	2.47	0.42
1:F:1420:TYR:OH	1:F:1466:LEU:CD2	2.65	0.42
2:G:69:LEU:HA	2:G:72:THR:HG22	2.00	0.42
2:G:162:ALA:HB3	2:G:237:LEU:CD1	2.49	0.42
2:G:257:ASN:ND2	2:G:395:VAL:HG22	2.34	0.42
2:G:317:LYS:HE3	2:G:345:ILE:HG13	2.00	0.42
2:G:358:VAL:CG2	2:G:365:VAL:CG1	2.94	0.42
2:G:417:VAL:CG1	2:G:418:THR:N	2.83	0.42
2:H:262:LEU:C	2:H:262:LEU:CD2	2.93	0.42
2:H:319:LEU:CD2	2:H:320:TYR:N	2.83	0.42
2:H:378:GLN:O	2:H:378:GLN:HG2	2.20	0.42
2:I:94:CYS:SG	2:I:450:VAL:HG22	2.59	0.42
2:I:190:ILE:CG2	2:I:191:PRO:HD2	2.49	0.42
2:I:429:THR:HB	2:I:431:MET:HG3	2.02	0.42
2:J:77:LEU:C	2:J:127:ILE:HD11	2.44	0.42
2:J:90:PHE:HZ	2:J:160:LEU:CB	2.33	0.42
2:J:162:ALA:HB3	2:J:237:LEU:CD1	2.49	0.42
2:J:190:ILE:CG2	2:J:191:PRO:HD2	2.49	0.42
2:J:195:LEU:HD12	2:J:196:GLU:O	2.19	0.42
2:J:304:CYS:CA	2:J:307:THR:HG22	2.48	0.42
2:K:252:GLY:HA3	2:K:258:ILE:HG21	2.02	0.42
2:K:316:VAL:HG12	2:K:342:VAL:HG13	2.02	0.42
2:L:68:TRP:CH2	2:L:124:GLU:OE1	2.72	0.42
2:L:71:LEU:HD22	2:L:74:GLU:HG3	2.01	0.42
1:A:731:SER:O	1:A:734:LEU:HB3	2.18	0.42
1:A:871:LEU:HA	1:A:871:LEU:HD23	1.68	0.42
1:A:917:VAL:CG1	1:A:922:LEU:HD21	2.49	0.42
1:A:992:PRO:HA	1:A:1204:ARG:HH22	1.84	0.42
1:A:1026:ASN:ND2	1:A:1026:ASN:C	2.77	0.42
1:A:1147:ARG:HH11	1:A:1147:ARG:HD3	1.57	0.42
1:A:1447:TRP:CE2	1:A:1451:VAL:HG21	2.52	0.42
1:B:235:ASN:HD22	1:B:235:ASN:C	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:252:GLU:HA	1:B:260:MET:CE	2.50	0.42
1:B:280:VAL:O	1:B:281:PHE:C	2.62	0.42
1:B:999:LYS:CG	1:B:1022:LEU:CD2	2.64	0.42
1:B:1099:ALA:C	1:B:1101:GLY:N	2.78	0.42
1:B:1274:GLN:NE2	1:B:1294:ASP:H	2.18	0.42
1:B:1281:VAL:HA	1:B:1301:SER:O	2.20	0.42
1:B:1430:GLU:O	1:B:1431:HIS:C	2.62	0.42
1:C:78:LEU:HB3	1:C:79:PRO:HD2	2.01	0.42
1:C:90:ARG:HB3	1:C:107:TRP:CZ2	2.55	0.42
1:C:183:PHE:HE1	1:C:188:LEU:HA	1.79	0.42
1:C:194:ASP:HB3	1:C:200:PHE:CE1	2.54	0.42
1:C:293:MET:HE3	1:C:293:MET:HB3	1.72	0.42
1:C:464:ILE:CD1	1:C:779:TYR:CZ	2.94	0.42
1:C:896:PRO:HB2	1:E:1226:GLY:CA	2.49	0.42
1:C:1221:PRO:O	1:C:1222:LEU:C	2.63	0.42
1:D:280:VAL:O	1:D:281:PHE:C	2.62	0.42
1:D:438:GLU:HG3	1:D:693:MET:CG	2.50	0.42
1:D:1011:ALA:O	1:D:1014:ALA:N	2.52	0.42
1:D:1376:LEU:HD23	1:D:1376:LEU:HA	1.63	0.42
1:E:133:VAL:HG12	1:E:134:GLY:N	2.34	0.42
1:E:386:GLY:H	1:E:389:GLU:CG	2.33	0.42
1:E:420:VAL:CG1	1:E:421:GLN:N	2.81	0.42
1:E:536:ASP:CG	1:E:538:THR:HG22	2.44	0.42
1:E:605:ILE:HA	1:E:643:ASN:O	2.20	0.42
1:E:706:LYS:NZ	1:E:940:GLU:OE1	2.40	0.42
1:E:1156:ARG:HE	1:E:1156:ARG:HB2	1.72	0.42
1:F:105:TYR:H	1:F:105:TYR:HD1	1.68	0.42
1:F:290:THR:CG2	1:F:291:ALA:N	2.75	0.42
1:F:540:THR:O	1:F:542:LEU:HG	2.20	0.42
2:G:28:PHE:HZ	2:G:285:LEU:HD21	1.84	0.42
2:G:92:GLU:HG3	2:G:203:ARG:NH1	2.34	0.42
2:G:249:LYS:HD2	2:G:258:ILE:HD13	2.02	0.42
2:G:316:VAL:HG12	2:G:342:VAL:HG13	2.02	0.42
2:G:465:HIS:NE2	2:G:469:LYS:CE	2.83	0.42
2:H:177:ASP:OD2	2:H:182:MET:HE2	2.20	0.42
2:H:186:LEU:CD2	2:H:186:LEU:C	2.92	0.42
2:H:257:ASN:ND2	2:H:395:VAL:HG22	2.34	0.42
2:H:269:ASN:HD22	2:H:273:LEU:HD23	1.85	0.42
2:I:77:LEU:C	2:I:127:ILE:HD11	2.44	0.42
2:I:177:ASP:OD2	2:I:182:MET:HE2	2.20	0.42
2:I:324:ARG:HA	2:I:346:TRP:CZ2	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:367:ILE:O	2:I:390:VAL:HG23	2.19	0.42
2:J:264:TYR:CE2	2:J:307:THR:CG2	2.94	0.42
2:J:319:LEU:CD2	2:J:320:TYR:N	2.83	0.42
2:J:417:VAL:CG1	2:J:418:THR:N	2.83	0.42
2:J:449:LEU:HD22	2:J:452:TRP:CE2	2.53	0.42
2:J:480:ALA:O	2:J:481:GLU:HB3	2.14	0.42
2:K:80:ALA:HB3	2:K:127:ILE:HD11	1.96	0.42
2:K:206:LEU:HD22	2:K:206:LEU:HA	1.91	0.42
2:K:225:SER:C	2:K:227:PRO:HD2	2.44	0.42
2:K:249:LYS:CE	2:K:258:ILE:CD1	2.95	0.42
2:K:319:LEU:CD2	2:K:320:TYR:N	2.83	0.42
2:K:465:HIS:NE2	2:K:469:LYS:CE	2.83	0.42
2:L:249:LYS:HD2	2:L:258:ILE:HD13	2.02	0.42
2:L:257:ASN:ND2	2:L:395:VAL:HG22	2.34	0.42
2:L:262:LEU:C	2:L:262:LEU:CD2	2.93	0.42
1:A:353:MET:O	1:A:353:MET:CG	2.67	0.42
1:A:419:TRP:CE3	1:A:537:GLU:HA	2.55	0.42
1:A:464:ILE:C	1:A:467:PRO:HD2	2.45	0.42
1:A:691:LYS:O	1:A:691:LYS:HG3	2.20	0.42
1:A:770:VAL:O	1:A:770:VAL:HG12	2.19	0.42
1:A:826:ARG:NH1	1:A:1046:GLU:CD	2.76	0.42
1:A:1425:LYS:HD2	1:A:1447:TRP:CD2	2.54	0.42
1:A:1460:LYS:C	1:A:1462:MET:N	2.77	0.42
1:B:204:PHE:CD2	1:B:204:PHE:C	2.97	0.42
1:B:488:LEU:HA	1:B:488:LEU:HD23	1.71	0.42
1:B:574:PRO:O	1:B:574:PRO:HG2	2.19	0.42
1:B:780:ARG:NH2	2:G:109:VAL:HG11	2.33	0.42
1:B:843:VAL:HG11	1:B:1147:ARG:HB3	2.00	0.42
1:B:970:PRO:HG2	1:B:970:PRO:O	2.19	0.42
1:B:1057:THR:HG22	1:B:1058:LEU:N	2.22	0.42
1:B:1449:ARG:NH1	1:B:1449:ARG:CG	2.69	0.42
1:C:185:ALA:O	1:C:186:GLU:C	2.57	0.42
1:C:362:LEU:HD12	1:C:362:LEU:HA	1.88	0.42
1:C:591:GLN:O	1:C:594:GLU:N	2.52	0.42
1:C:877:ARG:CD	1:E:1230:GLN:HB2	2.33	0.42
1:C:929:GLU:HA	1:C:997:THR:HB	2.01	0.42
1:C:1055:VAL:O	1:C:1056:LEU:C	2.59	0.42
1:C:1468:VAL:HG12	1:C:1468:VAL:O	2.15	0.42
1:D:52:GLN:HE21	1:D:52:GLN:HB3	1.74	0.42
1:D:62:ILE:O	1:D:62:ILE:CG2	2.68	0.42
1:D:317:ILE:HG22	1:D:321:ASN:ND2	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:447:LEU:HD12	1:D:451:GLN:CD	2.45	0.42
1:D:466:HIS:CE1	1:D:684:PHE:HE1	2.33	0.42
1:D:807:TYR:O	1:D:810:PHE:HB3	2.20	0.42
1:D:944:LEU:HA	1:D:945:PRO:HD3	1.90	0.42
1:D:1164:ARG:HB3	1:D:1167:LEU:CD1	2.47	0.42
1:D:1447:TRP:O	1:D:1448:ALA:C	2.63	0.42
1:E:330:PRO:HB3	1:E:350:LEU:HB3	2.01	0.42
1:E:505:GLN:NE2	1:E:1000:LEU:HB3	2.35	0.42
1:E:656:ALA:O	1:E:657:VAL:C	2.61	0.42
1:E:728:ILE:HD12	1:E:1047:MET:HE1	2.00	0.42
1:E:1131:THR:HG21	1:E:1133:GLU:HB2	2.01	0.42
1:E:1161:VAL:O	1:E:1161:VAL:HG13	2.18	0.42
1:E:1267:ARG:H	1:E:1267:ARG:HG2	1.71	0.42
1:E:1450:GLU:C	1:E:1452:THR:N	2.75	0.42
1:F:267:ILE:HG12	1:F:279:THR:HG21	2.01	0.42
1:F:488:LEU:HD23	1:F:488:LEU:HA	1.71	0.42
1:F:531:ASN:O	1:F:532:ILE:C	2.63	0.42
1:F:1158:LEU:HD12	1:F:1158:LEU:HA	1.80	0.42
1:F:1274:GLN:NE2	1:F:1294:ASP:H	2.18	0.42
1:F:1359:GLY:O	1:F:1360:CYS:HB3	2.20	0.42
1:F:1447:TRP:O	1:F:1448:ALA:C	2.63	0.42
2:G:132:TRP:CG	2:G:202:ARG:HD2	2.52	0.42
2:G:137:VAL:CG1	2:G:138:LYS:N	2.82	0.42
2:G:262:LEU:C	2:G:262:LEU:CD2	2.93	0.42
2:G:266:THR:HG23	2:G:270:LYS:NZ	2.33	0.42
2:G:367:ILE:O	2:G:390:VAL:HG23	2.20	0.42
2:G:388:PHE:CD2	2:G:390:VAL:CG1	2.95	0.42
2:G:406:LEU:CD2	2:G:406:LEU:N	2.82	0.42
2:H:89:ASN:HD22	2:H:89:ASN:N	2.17	0.42
2:I:51:GLY:C	2:I:52:VAL:CG2	2.93	0.42
2:I:89:ASN:HD22	2:I:89:ASN:N	2.17	0.42
2:I:92:GLU:HG3	2:I:203:ARG:NH1	2.34	0.42
2:I:322:ARG:CD	2:I:349:ALA:CA	2.98	0.42
2:I:387:GLU:CG	2:I:388:PHE:N	2.82	0.42
2:I:449:LEU:HD23	2:I:452:TRP:H	1.83	0.42
2:J:26:GLN:HG3	2:J:310:ARG:O	2.20	0.42
2:J:207:LEU:HD12	2:J:212:VAL:CG1	2.49	0.42
2:J:252:GLY:HA3	2:J:258:ILE:HG21	2.02	0.42
2:J:257:ASN:ND2	2:J:395:VAL:HG22	2.34	0.42
2:K:69:LEU:HA	2:K:72:THR:HG22	2.00	0.42
2:K:137:VAL:CG1	2:K:138:LYS:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:153:ILE:CG1	2:K:220:VAL:HG22	2.49	0.42
2:K:195:LEU:HD12	2:K:196:GLU:O	2.19	0.42
2:L:358:VAL:HG22	2:L:365:VAL:HG11	1.99	0.42
2:L:415:LEU:CD2	2:L:416:LYS:N	2.82	0.42
1:A:165:ASN:O	1:A:166:ASP:HB2	2.20	0.42
1:A:352:PRO:HB2	1:A:367:SER:O	2.20	0.42
1:A:476:ILE:CG2	1:A:477:GLY:N	2.83	0.42
1:A:565:THR:CG2	1:A:603:HIS:HD2	2.33	0.42
1:A:969:PRO:N	1:A:970:PRO:HD2	2.35	0.42
1:A:1003:ARG:HH11	1:A:1003:ARG:CG	2.29	0.42
1:A:1221:PRO:O	1:A:1222:LEU:C	2.62	0.42
1:A:1264:ILE:HG22	1:A:1283:GLY:O	2.19	0.42
1:B:550:LEU:HA	1:B:554:GLU:OE2	2.19	0.42
1:B:620:ALA:O	1:B:621:ILE:C	2.60	0.42
1:B:868:HIS:O	1:B:870:THR:N	2.53	0.42
1:B:985:TYR:O	1:B:986:ASP:C	2.61	0.42
1:B:1184:ASN:O	1:B:1185:PRO:C	2.61	0.42
1:B:1442:GLU:OE2	2:H:375:THR:OG1	2.32	0.42
1:B:1442:GLU:CD	2:H:374:ALA:O	2.62	0.42
4:B:2474:FMN:HM71	4:B:2474:FMN:HM83	1.53	0.42
1:C:303:LEU:HD11	1:C:314:LYS:HG2	2.01	0.42
1:C:522:LEU:HA	1:C:716:ILE:HG22	2.01	0.42
1:C:826:ARG:NH1	1:C:1046:GLU:CD	2.76	0.42
1:C:990:ILE:O	1:C:1248:SER:OG	2.36	0.42
1:C:1363:ASN:HD22	1:C:1363:ASN:HA	1.61	0.42
1:C:1458:VAL:CG1	1:C:1459:PRO:HD2	2.47	0.42
1:D:30:HIS:CE1	1:D:1238:THR:HA	2.53	0.42
1:D:253:HIS:CE1	1:D:254:PRO:CG	3.03	0.42
1:D:297:MET:HE2	1:D:297:MET:HB3	1.67	0.42
1:D:308:THR:O	1:D:308:THR:CG2	2.66	0.42
1:D:404:ARG:HB3	1:D:405:GLU:OE1	2.20	0.42
1:D:444:LYS:HE3	1:D:681:ARG:HH12	1.85	0.42
1:D:500:ARG:HD2	1:D:728:ILE:HG21	2.02	0.42
1:D:586:LEU:HD23	1:D:586:LEU:HA	1.86	0.42
1:D:782:ARG:HH22	2:H:51:GLY:N	1.97	0.42
1:D:825:LEU:O	1:D:826:ARG:C	2.59	0.42
1:D:853:PHE:CZ	1:D:1079:ILE:HD13	2.55	0.42
1:D:861:GLY:O	1:D:862:ALA:C	2.62	0.42
1:D:1133:GLU:H	1:D:1133:GLU:CD	2.27	0.42
1:E:216:PHE:CE1	1:F:81:ILE:HD13	2.54	0.42
1:E:309:THR:HG21	1:E:314:LYS:HG3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:353:MET:O	1:E:353:MET:CG	2.67	0.42
1:E:565:THR:CG2	1:E:603:HIS:HD2	2.33	0.42
1:E:635:ASN:O	1:E:636:LEU:HD13	2.20	0.42
1:E:956:LEU:HD23	1:E:956:LEU:HA	1.70	0.42
1:E:1212:ASP:OD2	1:E:1243:GLY:CA	2.67	0.42
1:F:203:ASP:OD1	1:F:203:ASP:N	2.48	0.42
1:F:608:ASP:OD2	1:F:646:THR:HA	2.20	0.42
1:F:957:ARG:HD2	1:F:965:LEU:HD12	2.02	0.42
2:H:153:ILE:CG1	2:H:220:VAL:CG1	2.96	0.42
2:H:169:LYS:HZ3	2:H:461:ALA:HB1	1.85	0.42
2:H:241:GLY:O	2:H:443:ILE:HG22	2.19	0.42
2:H:304:CYS:CA	2:H:307:THR:HG22	2.48	0.42
2:I:28:PHE:HZ	2:I:285:LEU:HD21	1.83	0.42
2:J:71:LEU:HD22	2:J:74:GLU:HG3	2.01	0.42
2:J:449:LEU:HD23	2:J:452:TRP:H	1.83	0.42
2:K:32:TYR:CD2	2:K:194:LYS:HA	2.55	0.42
2:K:151:GLY:O	2:K:236:VAL:HA	2.20	0.42
2:L:34:ARG:HG3	2:L:125:LYS:CE	2.46	0.42
2:L:190:ILE:CG2	2:L:191:PRO:HD2	2.49	0.42
2:L:342:VAL:CG1	2:L:343:GLU:N	2.83	0.42
1:A:37:ASP:OD1	1:A:38:GLY:N	2.53	0.42
1:A:216:PHE:CE1	1:B:81:ILE:HD13	2.54	0.42
1:A:852:ARG:NH1	1:A:1088:GLU:O	2.50	0.42
1:A:861:GLY:O	1:A:862:ALA:C	2.61	0.42
1:A:929:GLU:HA	1:A:997:THR:HB	2.01	0.42
1:A:1219:ALA:HA	1:A:1229:MET:HE3	2.00	0.42
1:A:1236:ARG:O	1:A:1238:THR:N	2.53	0.42
1:A:1458:VAL:CG1	1:A:1459:PRO:HD2	2.47	0.42
1:B:242:ASN:C	1:B:244:MET:H	2.28	0.42
1:B:357:ILE:HD13	1:B:357:ILE:HG21	1.65	0.42
1:B:732:ARG:H	1:B:747:SER:HA	1.85	0.42
1:C:189:THR:CG2	1:C:190:THR:N	2.63	0.42
1:C:449:ARG:O	1:C:450:ARG:C	2.63	0.42
1:C:608:ASP:O	1:C:609:GLU:C	2.62	0.42
1:C:621:ILE:HG12	1:C:657:VAL:HG11	2.00	0.42
1:C:683:LEU:HD23	1:C:683:LEU:HA	1.56	0.42
1:C:917:VAL:CG1	1:C:922:LEU:HD21	2.49	0.42
1:C:969:PRO:N	1:C:970:PRO:HD2	2.35	0.42
1:C:1246:LEU:O	1:C:1249:MET:HB2	2.20	0.42
1:C:1276:LEU:HD12	1:C:1277:GLY:H	1.85	0.42
1:C:1370:GLY:N	1:C:1389:GLY:O	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:252:GLU:HA	1:D:260:MET:CE	2.50	0.42
1:D:267:ILE:HG12	1:D:279:THR:HG21	2.01	0.42
1:D:531:ASN:O	1:D:532:ILE:C	2.63	0.42
1:D:948:LYS:C	1:D:950:THR:N	2.78	0.42
1:D:965:LEU:HD23	1:D:965:LEU:HA	1.69	0.42
1:D:1111:ASN:OD1	1:D:1119:VAL:CG2	2.39	0.42
1:D:1129:VAL:O	1:D:1129:VAL:HG23	2.19	0.42
1:D:1250:VAL:HG13	1:D:1259:LEU:HD12	2.01	0.42
1:E:90:ARG:HB3	1:E:107:TRP:CZ2	2.55	0.42
1:E:284:MET:CE	1:E:294:VAL:HG13	2.50	0.42
1:E:583:ARG:NE	1:E:587:ARG:NH1	2.68	0.42
1:E:1210:THR:O	1:E:1211:LEU:C	2.60	0.42
1:E:1262:GLY:O	1:E:1263:HIS:C	2.63	0.42
1:E:1427:LEU:O	1:E:1428:ILE:C	2.62	0.42
1:F:81:ILE:O	1:F:81:ILE:CG2	2.67	0.42
1:F:218:THR:CG2	1:F:221:LEU:H	2.30	0.42
1:F:259:HIS:O	1:F:260:MET:C	2.63	0.42
1:F:550:LEU:HA	1:F:554:GLU:OE2	2.19	0.42
1:F:574:PRO:O	1:F:574:PRO:HG2	2.19	0.42
1:F:730:LEU:C	1:F:748:GLY:N	2.78	0.42
1:F:868:HIS:O	1:F:870:THR:N	2.53	0.42
1:F:1398:ASP:O	1:F:1399:ASP:C	2.61	0.42
2:G:469:LYS:O	2:G:472:ALA:HB3	2.20	0.42
2:H:316:VAL:HG12	2:H:342:VAL:HG13	2.02	0.42
2:I:32:TYR:HB3	2:I:34:ARG:HG2	2.01	0.42
2:I:240:THR:HG23	2:I:443:ILE:HG21	2.01	0.42
2:I:378:GLN:O	2:I:378:GLN:HG2	2.20	0.42
2:I:425:VAL:HG21	2:I:444:VAL:HG22	2.01	0.42
2:J:31:ILE:HG12	2:J:193:PHE:CD1	2.54	0.42
2:J:64:ASN:OD1	2:J:66:PRO:HG2	2.20	0.42
2:J:151:GLY:O	2:J:236:VAL:HA	2.19	0.42
2:J:197:LYS:CB	2:J:273:LEU:HG	2.48	0.42
2:J:322:ARG:CD	2:J:349:ALA:CA	2.98	0.42
2:J:378:GLN:O	2:J:378:GLN:HG2	2.20	0.42
2:J:394:LEU:HD22	2:J:394:LEU:C	2.45	0.42
2:K:177:ASP:OD2	2:K:182:MET:HE2	2.20	0.42
2:K:179:TYR:HB3	2:K:181:ARG:HH12	1.81	0.42
2:K:359:VAL:O	2:K:359:VAL:HG13	2.20	0.42
2:L:90:PHE:HZ	2:L:160:LEU:CB	2.33	0.42
2:L:110:ILE:HD11	2:L:118:VAL:CA	2.48	0.42
2:L:137:VAL:CG1	2:L:138:LYS:N	2.82	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:153:ILE:HG22	2:L:237:LEU:O	2.20	0.42
2:L:173:VAL:CG2	2:L:174:HIS:N	2.81	0.42
2:L:350:PRO:HD2	2:L:374:ALA:CB	2.49	0.42
2:L:429:THR:HB	2:L:431:MET:HG3	2.02	0.42
1:A:82:SER:O	1:A:83:LEU:C	2.62	0.42
1:A:102:TYR:HE2	1:A:144:PHE:CD1	2.34	0.42
1:A:415:PRO:O	1:A:416:TRP:C	2.61	0.42
1:A:420:VAL:HG12	1:A:421:GLN:N	2.35	0.42
1:A:608:ASP:O	1:A:609:GLU:C	2.62	0.42
1:A:894:PHE:CD1	1:A:904:ASN:ND2	2.88	0.42
1:A:1354:THR:HG23	1:A:1372:THR:HB	2.01	0.42
1:A:1416:GLU:O	1:A:1417:VAL:C	2.61	0.42
1:B:780:ARG:CZ	2:G:50:CYS:HG	2.29	0.42
1:B:1164:ARG:HD2	1:B:1164:ARG:HH11	1.60	0.42
1:B:1435:THR:O	1:B:1436:GLN:C	2.61	0.42
1:B:1447:TRP:O	1:B:1448:ALA:C	2.63	0.42
1:C:391:ILE:O	1:C:391:ILE:CG2	2.63	0.42
1:C:505:GLN:NE2	1:C:1000:LEU:HB3	2.35	0.42
1:C:583:ARG:NE	1:C:587:ARG:NH1	2.68	0.42
1:C:595:ASP:O	1:C:596:ALA:O	2.38	0.42
1:C:635:ASN:O	1:C:636:LEU:HD13	2.20	0.42
1:C:770:VAL:HG12	1:C:770:VAL:O	2.19	0.42
1:C:777:GLY:CA	2:K:52:VAL:HG11	2.42	0.42
1:C:1093:GLY:O	1:C:1094:THR:C	2.63	0.42
1:C:1339:ALA:HB2	1:C:1435:THR:OG1	2.19	0.42
1:C:1348:VAL:O	1:C:1348:VAL:CG1	2.65	0.42
1:D:51:PRO:HD2	1:D:55:PHE:HD2	1.84	0.42
1:D:175:ARG:NH1	1:D:175:ARG:CG	2.79	0.42
1:D:175:ARG:HH22	1:D:203:ASP:CG	2.27	0.42
1:D:730:LEU:C	1:D:748:GLY:N	2.78	0.42
1:D:734:LEU:HD11	1:D:738:HIS:HD2	1.51	0.42
1:D:1274:GLN:NE2	1:D:1294:ASP:H	2.18	0.42
1:D:1359:GLY:O	1:D:1360:CYS:HB3	2.20	0.42
1:E:37:ASP:OD1	1:E:38:GLY:N	2.53	0.42
1:E:169:ILE:O	1:E:170:CYS:C	2.61	0.42
1:E:335:MET:HB2	1:E:335:MET:HE3	1.56	0.42
1:E:345:MET:HB2	1:E:345:MET:HE2	1.15	0.42
1:E:653:HIS:O	1:E:655:PHE:N	2.53	0.42
1:E:695:ASN:O	1:E:698:LYS:N	2.53	0.42
1:E:897:ASP:OD1	1:E:899:ASN:N	2.50	0.42
1:F:438:GLU:HG3	1:F:693:MET:CG	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:438:GLU:OE2	1:F:553:ALA:HB3	2.20	0.42
1:F:491:LYS:HE2	1:F:785:GLY:HA3	2.02	0.42
1:F:919:ALA:CB	1:F:1281:VAL:CG1	2.98	0.42
1:F:1143:ALA:O	1:F:1147:ARG:HG3	2.20	0.42
2:G:71:LEU:HD22	2:G:74:GLU:HG3	2.01	0.42
2:G:110:ILE:HD11	2:G:118:VAL:CA	2.48	0.42
2:G:269:ASN:HD22	2:G:273:LEU:HD23	1.85	0.42
2:G:387:GLU:CG	2:G:388:PHE:N	2.82	0.42
2:G:415:LEU:CD2	2:G:415:LEU:C	2.93	0.42
2:G:449:LEU:HD12	8:G:484:FAD:O2	2.20	0.42
2:H:32:TYR:CD2	2:H:194:LYS:HA	2.55	0.42
2:H:359:VAL:O	2:H:359:VAL:HG13	2.20	0.42
2:H:418:THR:CB	2:H:424:LEU:CD1	2.93	0.42
2:I:26:GLN:HG3	2:I:310:ARG:O	2.20	0.42
2:I:46:ARG:NH2	2:I:118:VAL:HA	2.35	0.42
2:I:64:ASN:OD1	2:I:66:PRO:HG2	2.20	0.42
2:I:113:SER:HB3	2:I:115:HIS:CD2	2.55	0.42
2:I:118:VAL:HG22	2:I:118:VAL:H	1.08	0.42
2:I:358:VAL:HG22	2:I:365:VAL:HG11	1.99	0.42
2:J:174:HIS:CD2	2:J:176:TYR:CD1	3.08	0.42
2:K:26:GLN:HG3	2:K:310:ARG:O	2.20	0.42
2:L:237:LEU:HD22	2:L:238:VAL:N	2.35	0.42
2:L:425:VAL:HG21	2:L:444:VAL:HG22	2.01	0.42
1:A:42:ASP:OD1	1:A:212:SER:OG	2.39	0.41
1:A:77:PHE:HB3	1:A:126:PRO:CB	2.50	0.41
1:A:195:LEU:HD23	1:A:195:LEU:HA	1.57	0.41
1:A:420:VAL:C	1:A:422:ASN:N	2.76	0.41
1:A:666:VAL:HG12	1:A:667:ASN:N	2.34	0.41
1:A:990:ILE:O	1:A:990:ILE:HG13	2.19	0.41
1:A:1301:SER:O	1:A:1301:SER:OG	2.37	0.41
1:B:42:ASP:HB2	1:B:210:ARG:O	2.20	0.41
1:B:175:ARG:HH22	1:B:203:ASP:CG	2.27	0.41
1:B:182:MET:CG	1:B:182:MET:O	2.66	0.41
1:B:491:LYS:HE2	1:B:785:GLY:HA3	2.02	0.41
1:B:550:LEU:HD13	1:B:555:PHE:HA	2.01	0.41
1:B:677:GLU:O	1:B:678:ARG:C	2.62	0.41
1:C:52:GLN:HE21	1:C:52:GLN:HB3	1.56	0.41
1:C:102:TYR:HE2	1:C:144:PHE:CD1	2.34	0.41
1:C:103:TYR:OH	1:D:1178:LEU:HD13	2.20	0.41
1:C:169:ILE:O	1:C:170:CYS:C	2.61	0.41
1:C:185:ALA:C	1:C:187:GLN:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:558:MET:O	1:C:559:ARG:C	2.60	0.41
1:C:805:ASP:OD1	1:C:805:ASP:C	2.58	0.41
1:C:820:ARG:CB	1:C:821:PRO:CD	2.96	0.41
1:C:893:ARG:O	1:C:904:ASN:HB2	2.20	0.41
1:C:1062:ARG:HH11	1:C:1062:ARG:HD3	1.53	0.41
1:C:1131:THR:HG21	1:C:1133:GLU:HB2	2.01	0.41
1:C:1447:TRP:NE1	1:C:1451:VAL:HG21	2.35	0.41
1:D:732:ARG:H	1:D:747:SER:HA	1.85	0.41
1:D:860:MET:HE1	1:D:893:ARG:NH1	2.35	0.41
1:D:1222:LEU:HD12	1:D:1222:LEU:O	2.20	0.41
1:E:87:GLU:C	1:E:89:CYS:N	2.74	0.41
1:E:260:MET:HB2	1:E:260:MET:HE2	1.54	0.41
1:E:390:MET:HG3	1:E:406:LEU:HD23	2.02	0.41
1:E:582:LEU:CB	1:E:755:GLN:HE21	2.30	0.41
1:E:778:PHE:CE2	1:E:1039:LYS:CD	2.75	0.41
1:E:894:PHE:CZ	1:E:924:GLN:HG3	2.55	0.41
1:E:969:PRO:N	1:E:970:PRO:HD2	2.35	0.41
1:E:1236:ARG:O	1:E:1238:THR:N	2.53	0.41
1:E:1301:SER:O	1:E:1301:SER:OG	2.37	0.41
1:F:42:ASP:HB2	1:F:210:ARG:O	2.20	0.41
1:F:232:GLY:HA3	1:F:330:PRO:O	2.20	0.41
1:F:252:GLU:HA	1:F:260:MET:CE	2.50	0.41
1:F:404:ARG:HB3	1:F:405:GLU:OE1	2.20	0.41
1:F:1129:VAL:O	1:F:1129:VAL:HG23	2.19	0.41
2:G:144:ARG:HD2	2:G:169:LYS:CB	2.47	0.41
2:G:415:LEU:CD2	2:G:416:LYS:N	2.82	0.41
2:H:174:HIS:CD2	2:H:176:TYR:CD1	3.08	0.41
2:H:249:LYS:CE	2:H:258:ILE:CD1	2.95	0.41
2:H:288:ALA:CB	2:H:311:GLN:HG3	2.50	0.41
2:I:32:TYR:CD2	2:I:194:LYS:HA	2.55	0.41
2:I:359:VAL:O	2:I:359:VAL:HG13	2.20	0.41
2:I:417:VAL:CG1	2:I:418:THR:N	2.83	0.41
2:J:153:ILE:HG22	2:J:237:LEU:O	2.20	0.41
2:J:225:SER:C	2:J:227:PRO:HD2	2.44	0.41
2:J:237:LEU:HD22	2:J:238:VAL:N	2.35	0.41
2:J:291:HIS:HD2	2:J:392:ALA:HB2	1.84	0.41
2:J:359:VAL:O	2:J:359:VAL:HG13	2.20	0.41
2:J:477:ALA:C	2:J:478:VAL:CG2	2.93	0.41
2:K:77:LEU:C	2:K:127:ILE:HD11	2.44	0.41
2:K:262:LEU:C	2:K:262:LEU:CD2	2.93	0.41
2:L:92:GLU:HG3	2:L:203:ARG:NH1	2.34	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:113:SER:HB3	2:L:115:HIS:CD2	2.55	0.41
2:L:181:ARG:CD	2:L:187:VAL:CG1	2.94	0.41
2:L:331:GLN:HA	2:L:334:VAL:HG21	1.98	0.41
2:L:415:LEU:CD2	2:L:415:LEU:C	2.93	0.41
2:L:417:VAL:CG1	2:L:418:THR:N	2.83	0.41
2:L:418:THR:N	2:L:424:LEU:CD2	2.83	0.41
2:L:432:THR:CG2	2:L:437:VAL:HG13	2.50	0.41
1:A:112:ILE:HA	1:A:191:PHE:O	2.20	0.41
1:A:304:THR:HG21	1:A:518:ARG:HD2	2.03	0.41
1:A:376:GLU:HG3	1:A:1310:THR:OG1	2.20	0.41
1:A:486:ALA:O	1:A:487:VAL:C	2.58	0.41
1:A:735:VAL:HG23	1:A:735:VAL:H	1.49	0.41
1:A:949:VAL:O	1:A:950:THR:O	2.37	0.41
1:A:1039:LYS:O	1:A:1040:PHE:CD1	2.73	0.41
1:A:1121:ASP:OD1	1:A:1121:ASP:C	2.62	0.41
1:A:1246:LEU:O	1:A:1249:MET:HB2	2.20	0.41
1:B:51:PRO:HD2	1:B:55:PHE:HD2	1.84	0.41
1:B:105:TYR:H	1:B:105:TYR:HD1	1.68	0.41
1:B:267:ILE:HG12	1:B:279:THR:HG21	2.01	0.41
1:B:404:ARG:HB3	1:B:405:GLU:OE1	2.20	0.41
1:B:444:LYS:HE3	1:B:681:ARG:HH12	1.85	0.41
1:B:481:ASP:HB2	1:B:1038:ILE:HG22	2.03	0.41
1:B:919:ALA:CB	1:B:1281:VAL:CG1	2.98	0.41
1:B:960:THR:CG2	1:B:963:VAL:HG23	2.47	0.41
1:B:1146:VAL:C	1:B:1148:GLU:N	2.77	0.41
1:C:309:THR:HG21	1:C:314:LYS:HG3	2.02	0.41
1:C:324:MET:HE2	1:C:327:TRP:NE1	2.31	0.41
1:C:335:MET:HE3	1:C:342:VAL:HB	2.01	0.41
1:C:787:ARG:HH11	1:C:787:ARG:HD3	1.66	0.41
1:C:862:ALA:O	1:C:1118:CYS:HB3	2.18	0.41
1:C:991:ASN:HA	1:C:992:PRO:HD2	1.84	0.41
1:C:1059:ASN:N	1:C:1059:ASN:HD22	2.19	0.41
1:C:1356:VAL:CG1	1:C:1431:HIS:CG	3.03	0.41
1:C:1438:ARG:C	1:C:1440:ALA:N	2.76	0.41
1:D:10:ASP:OD1	1:D:10:ASP:C	2.63	0.41
1:D:232:GLY:HA3	1:D:330:PRO:O	2.20	0.41
1:D:420:VAL:C	1:D:422:ASN:H	2.28	0.41
1:D:666:VAL:HG13	1:D:667:ASN:N	2.34	0.41
1:D:856:PRO:HG2	1:D:1093:GLY:HA3	2.02	0.41
1:D:919:ALA:CB	1:D:1281:VAL:CG1	2.98	0.41
1:D:942:GLY:HA2	5:D:2475:AKG:O5	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:1143:ALA:O	1:D:1147:ARG:HG3	2.20	0.41
1:D:1384:ALA:O	1:D:1385:ALA:C	2.60	0.41
1:D:1442:GLU:CD	2:I:374:ALA:O	2.62	0.41
1:E:52:GLN:NE2	1:E:71:LEU:N	2.44	0.41
1:E:149:TYR:HE2	1:E:263:LEU:HD21	1.86	0.41
1:E:165:ASN:O	1:E:166:ASP:HB2	2.20	0.41
1:E:335:MET:HE3	1:E:342:VAL:HB	2.01	0.41
1:E:464:ILE:C	1:E:467:PRO:HD2	2.45	0.41
1:E:629:THR:O	1:E:631:LEU:N	2.53	0.41
1:E:1407:ASP:O	1:E:1409:SER:N	2.53	0.41
1:F:10:ASP:OD1	1:F:10:ASP:C	2.63	0.41
1:F:253:HIS:CE1	1:F:254:PRO:CG	3.03	0.41
1:F:263:LEU:N	1:F:263:LEU:CD1	2.73	0.41
1:F:447:LEU:HD12	1:F:451:GLN:CD	2.45	0.41
1:F:481:ASP:HB2	1:F:1038:ILE:HG22	2.02	0.41
1:F:500:ARG:HD2	1:F:728:ILE:HG21	2.02	0.41
1:F:794:VAL:CG2	1:F:817:VAL:HG23	2.49	0.41
1:F:853:PHE:CZ	1:F:1079:ILE:HD13	2.55	0.41
1:F:942:GLY:HA2	5:F:2475:AKG:O5	2.20	0.41
1:F:1442:GLU:CD	2:G:374:ALA:O	2.62	0.41
2:G:32:TYR:CD2	2:G:194:LYS:HA	2.55	0.41
2:G:80:ALA:HB3	2:G:127:ILE:HD11	1.96	0.41
2:G:190:ILE:CG2	2:G:191:PRO:HD2	2.49	0.41
2:G:252:GLY:C	2:G:258:ILE:HG21	2.45	0.41
2:G:345:ILE:HD13	2:G:345:ILE:N	2.17	0.41
2:G:447:ALA:CB	2:G:452:TRP:CE3	2.92	0.41
2:H:46:ARG:NH2	2:H:118:VAL:HA	2.35	0.41
2:H:151:GLY:O	2:H:236:VAL:HA	2.20	0.41
2:H:153:ILE:HG22	2:H:237:LEU:O	2.20	0.41
2:H:394:LEU:HD22	2:H:394:LEU:C	2.45	0.41
2:I:241:GLY:O	2:I:443:ILE:HG22	2.19	0.41
2:I:262:LEU:C	2:I:262:LEU:CD2	2.93	0.41
2:I:269:ASN:HD22	2:I:273:LEU:HD23	1.85	0.41
2:I:317:LYS:CE	2:I:345:ILE:CD1	2.94	0.41
2:I:319:LEU:CD2	2:I:320:TYR:N	2.83	0.41
2:J:46:ARG:NH2	2:J:118:VAL:HA	2.35	0.41
2:J:89:ASN:HD22	2:J:89:ASN:N	2.17	0.41
2:J:153:ILE:CG1	2:J:220:VAL:CG1	2.95	0.41
2:J:181:ARG:CG	2:J:182:MET:N	2.83	0.41
2:J:241:GLY:O	2:J:443:ILE:HG22	2.19	0.41
2:J:429:THR:HB	2:J:431:MET:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:K:46:ARG:NH2	2:K:118:VAL:HA	2.35	0.41
2:K:342:VAL:CG1	2:K:343:GLU:N	2.83	0.41
2:K:432:THR:CG2	2:K:437:VAL:HG13	2.50	0.41
2:K:449:LEU:CD2	2:K:451:VAL:CG1	2.89	0.41
2:L:64:ASN:OD1	2:L:66:PRO:HG2	2.20	0.41
2:L:132:TRP:CG	2:L:202:ARG:HD2	2.52	0.41
2:L:358:VAL:CG2	2:L:365:VAL:CG1	2.94	0.41
2:L:418:THR:CB	2:L:424:LEU:CD1	2.93	0.41
1:A:653:HIS:O	1:A:655:PHE:N	2.53	0.41
1:A:840:VAL:O	1:A:841:ASP:C	2.61	0.41
1:A:893:ARG:O	1:A:904:ASN:HB2	2.20	0.41
1:A:1057:THR:CG2	1:A:1190:VAL:HG11	2.50	0.41
1:B:175:ARG:NH2	1:B:203:ASP:OD2	2.53	0.41
1:B:266:VAL:HG12	1:B:279:THR:HG22	1.97	0.41
1:B:376:GLU:O	1:B:377:THR:C	2.62	0.41
1:B:730:LEU:C	1:B:748:GLY:N	2.78	0.41
1:B:853:PHE:CZ	1:B:1079:ILE:HD13	2.55	0.41
1:B:897:ASP:OD1	1:B:899:ASN:N	2.52	0.41
1:B:942:GLY:HA2	5:B:2475:AKG:O5	2.20	0.41
1:B:1359:GLY:O	1:B:1360:CYS:HB3	2.20	0.41
1:C:24:ALA:O	1:C:27:ALA:N	2.27	0.41
1:C:37:ASP:OD1	1:C:38:GLY:N	2.53	0.41
1:C:386:GLY:O	1:C:387:PRO:C	2.60	0.41
1:C:476:ILE:CG2	1:C:477:GLY:N	2.83	0.41
1:C:500:ARG:H	1:C:500:ARG:HG2	1.71	0.41
1:C:1235:ALA:HA	1:C:1239:GLN:OE1	2.20	0.41
1:D:117:ILE:HD12	1:D:117:ILE:HG21	1.49	0.41
1:D:485:ILE:HD13	1:D:485:ILE:HG21	1.68	0.41
1:D:495:LEU:HA	1:D:495:LEU:HD12	1.36	0.41
1:D:561:TYR:CD1	1:D:561:TYR:O	2.74	0.41
1:D:598:ARG:HH11	1:D:598:ARG:HD3	1.70	0.41
1:D:780:ARG:NH2	2:H:54:PHE:HD1	2.18	0.41
1:D:1282:GLN:HA	1:D:1302:GLY:O	2.20	0.41
1:E:47:HIS:ND1	1:E:47:HIS:C	2.77	0.41
1:E:397:SER:O	1:E:398:GLY:C	2.58	0.41
1:E:454:PHE:CD2	1:E:648:GLU:CB	3.00	0.41
1:E:522:LEU:O	1:E:523:LYS:C	2.63	0.41
1:E:526:LEU:CD1	1:E:526:LEU:H	2.17	0.41
1:E:982:GLN:HE22	1:E:1240:ARG:CD	2.25	0.41
1:E:1061:LEU:C	1:E:1063:HIS:H	2.28	0.41
1:E:1427:LEU:HA	1:E:1427:LEU:HD23	1.79	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:175:ARG:NH2	1:F:203:ASP:OD2	2.53	0.41
1:F:444:LYS:HE3	1:F:681:ARG:HH12	1.85	0.41
1:F:861:GLY:O	1:F:862:ALA:C	2.62	0.41
1:F:997:THR:CG2	1:F:998:VAL:N	2.83	0.41
1:F:1011:ALA:O	1:F:1014:ALA:N	2.52	0.41
2:G:26:GLN:HG3	2:G:310:ARG:O	2.20	0.41
2:G:342:VAL:CG1	2:G:343:GLU:N	2.83	0.41
2:G:432:THR:CG2	2:G:437:VAL:HG13	2.50	0.41
2:H:51:GLY:C	2:H:52:VAL:CG2	2.93	0.41
2:H:181:ARG:CG	2:H:182:MET:N	2.83	0.41
2:H:190:ILE:HB	2:H:195:LEU:HD23	2.03	0.41
2:H:252:GLY:C	2:H:258:ILE:HG21	2.45	0.41
2:I:137:VAL:CG1	2:I:138:LYS:N	2.82	0.41
2:I:174:HIS:CD2	2:I:176:TYR:CD1	3.08	0.41
2:I:237:LEU:HD22	2:I:238:VAL:N	2.35	0.41
2:I:257:ASN:ND2	2:I:395:VAL:HG22	2.34	0.41
2:I:394:LEU:HD22	2:I:394:LEU:C	2.45	0.41
2:I:415:LEU:CD2	2:I:415:LEU:C	2.93	0.41
2:I:418:THR:N	2:I:424:LEU:CD2	2.83	0.41
2:J:113:SER:HB3	2:J:115:HIS:CD2	2.55	0.41
2:J:449:LEU:HD12	8:J:484:FAD:O2	2.20	0.41
2:K:174:HIS:CD2	2:K:176:TYR:CD1	3.08	0.41
2:K:237:LEU:HD22	2:K:238:VAL:N	2.35	0.41
2:K:302:MET:HE1	2:K:334:VAL:CG1	2.50	0.41
2:K:306:ARG:HD3	2:K:336:HIS:CB	2.45	0.41
2:K:351:GLU:CB	2:K:353:PHE:HB3	2.47	0.41
2:K:429:THR:HB	2:K:431:MET:HG3	2.02	0.41
2:L:46:ARG:NH2	2:L:118:VAL:HA	2.35	0.41
2:L:77:LEU:C	2:L:127:ILE:HD11	2.44	0.41
2:L:100:GLN:CB	2:L:105:GLU:CG	2.93	0.41
2:L:252:GLY:C	2:L:258:ILE:HG21	2.45	0.41
1:A:113:ASN:ND2	1:A:115:ASP:N	2.42	0.41
1:A:335:MET:HE3	1:A:342:VAL:HB	2.01	0.41
1:A:406:LEU:O	1:A:409:HIS:HB3	2.21	0.41
1:A:447:LEU:HD11	1:A:451:GLN:CD	2.46	0.41
1:A:952:MET:O	1:A:953:ILE:C	2.63	0.41
1:A:960:THR:HA	1:A:961:PRO:HD3	1.92	0.41
1:A:1375:ILE:HD13	1:A:1375:ILE:HG21	1.75	0.41
1:A:1407:ASP:O	1:A:1409:SER:N	2.53	0.41
1:B:364:ILE:HD12	1:B:374:ILE:HD11	2.00	0.41
1:B:438:GLU:HG3	1:B:693:MET:CG	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:588:ARG:HH11	1:B:588:ARG:HD3	1.68	0.41
1:B:608:ASP:OD2	1:B:646:THR:HA	2.20	0.41
1:B:661:VAL:HG12	1:B:661:VAL:O	2.21	0.41
1:B:856:PRO:HG2	1:B:1093:GLY:HA3	2.02	0.41
1:B:991:ASN:HA	1:B:992:PRO:HD2	1.83	0.41
1:B:1250:VAL:HG13	1:B:1259:LEU:HD12	2.01	0.41
1:B:1384:ALA:O	1:B:1385:ALA:C	2.60	0.41
1:C:77:PHE:HB3	1:C:126:PRO:CB	2.50	0.41
1:C:415:PRO:O	1:C:416:TRP:C	2.61	0.41
1:C:420:VAL:HG12	1:C:421:GLN:N	2.35	0.41
1:C:629:THR:O	1:C:631:LEU:N	2.53	0.41
1:C:653:HIS:O	1:C:655:PHE:N	2.53	0.41
1:C:696:TYR:CZ	1:C:700:ILE:HD11	2.55	0.41
1:C:784:SER:HB3	1:C:785:GLY:H	1.66	0.41
1:C:890:ASP:HA	1:C:891:PRO:HD3	1.85	0.41
1:C:1039:LYS:O	1:C:1040:PHE:CD1	2.73	0.41
1:C:1059:ASN:O	1:C:1060:ARG:C	2.63	0.41
1:C:1147:ARG:HH11	1:C:1147:ARG:HD3	1.57	0.41
1:D:92:ILE:O	1:D:93:VAL:C	2.59	0.41
1:D:204:PHE:CD2	1:D:204:PHE:C	2.97	0.41
1:D:259:HIS:O	1:D:260:MET:C	2.63	0.41
1:D:303:LEU:O	1:D:304:THR:C	2.61	0.41
1:D:410:LEU:HD12	1:D:410:LEU:N	2.36	0.41
1:D:481:ASP:HB2	1:D:1038:ILE:HG22	2.03	0.41
1:D:536:ASP:OD1	1:D:538:THR:N	2.54	0.41
1:D:782:ARG:C	1:D:784:SER:H	2.28	0.41
1:D:913:GLY:CA	1:D:1349:ARG:CD	2.94	0.41
1:D:1230:GLN:HB2	1:F:877:ARG:CD	2.48	0.41
1:D:1458:VAL:HA	1:D:1459:PRO:HD3	1.90	0.41
1:D:1461:GLU:H	1:D:1461:GLU:HG2	1.64	0.41
1:E:111:PRO:C	1:E:112:ILE:CG2	2.93	0.41
1:E:263:LEU:HA	1:E:263:LEU:HD12	1.01	0.41
1:E:352:PRO:HB2	1:E:367:SER:O	2.20	0.41
1:E:447:LEU:CD1	1:E:451:GLN:CG	2.96	0.41
1:E:545:LEU:HA	1:E:545:LEU:HD23	1.19	0.41
1:E:558:MET:O	1:E:559:ARG:C	2.60	0.41
1:E:690:GLU:O	1:E:691:LYS:C	2.62	0.41
1:E:734:LEU:HD12	1:E:738:HIS:CD2	2.41	0.41
1:F:754:ILE:HG22	1:F:755:GLN:N	2.34	0.41
2:G:46:ARG:NH2	2:G:118:VAL:HA	2.35	0.41
2:G:113:SER:HB3	2:G:115:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:119:THR:OG1	2:G:122:SER:HB3	2.21	0.41
2:G:153:ILE:HG22	2:G:237:LEU:O	2.20	0.41
2:H:110:ILE:HD11	2:H:118:VAL:CA	2.48	0.41
2:I:181:ARG:CG	2:I:182:MET:N	2.83	0.41
2:I:290:LYS:CG	2:I:291:HIS:N	2.79	0.41
2:I:351:GLU:CB	2:I:353:PHE:HB3	2.47	0.41
2:I:353:PHE:CD1	2:I:382:VAL:CG1	3.01	0.41
2:I:358:VAL:CG2	2:I:365:VAL:CG1	2.94	0.41
2:J:262:LEU:C	2:J:262:LEU:CD2	2.93	0.41
2:J:316:VAL:HG12	2:J:342:VAL:HG13	2.02	0.41
2:J:353:PHE:N	2:J:369:LEU:HD23	2.36	0.41
2:J:415:LEU:CD2	2:J:415:LEU:C	2.93	0.41
2:K:415:LEU:CD2	2:K:415:LEU:C	2.93	0.41
2:K:469:LYS:O	2:K:472:ALA:HB3	2.20	0.41
2:L:212:VAL:HG12	2:L:212:VAL:H	1.49	0.41
2:L:359:VAL:O	2:L:359:VAL:HG13	2.20	0.41
2:L:469:LYS:O	2:L:472:ALA:HB3	2.20	0.41
1:A:149:TYR:HE2	1:A:263:LEU:HD21	1.86	0.41
1:A:273:ASP:OD1	1:A:273:ASP:N	2.54	0.41
1:A:605:ILE:HA	1:A:643:ASN:O	2.19	0.41
1:A:833:SER:HB2	1:A:1167:LEU:HD22	2.03	0.41
1:A:1273:GLY:O	1:A:1274:GLN:C	2.63	0.41
1:A:1356:VAL:CG1	1:A:1431:HIS:CG	3.03	0.41
1:A:1406:ASN:OD1	1:A:1406:ASN:C	2.64	0.41
1:A:1447:TRP:NE1	1:A:1451:VAL:HG21	2.35	0.41
1:B:30:HIS:HE2	1:B:31:ARG:HD2	1.86	0.41
1:B:232:GLY:HA3	1:B:330:PRO:O	2.20	0.41
1:B:330:PRO:HA	1:B:350:LEU:HB2	2.03	0.41
1:B:410:LEU:HD12	1:B:410:LEU:N	2.36	0.41
1:B:505:GLN:HE22	1:B:1001:VAL:N	2.17	0.41
1:B:554:GLU:O	1:B:555:PHE:C	2.61	0.41
1:B:561:TYR:CD1	1:B:561:TYR:O	2.74	0.41
1:B:807:TYR:O	1:B:810:PHE:HB3	2.20	0.41
1:B:843:VAL:CG1	1:B:844:GLU:H	2.32	0.41
1:B:970:PRO:O	1:B:970:PRO:CG	2.68	0.41
1:B:1066:ARG:NH1	1:B:1089:GLU:OE2	2.53	0.41
1:B:1158:LEU:HD12	1:B:1158:LEU:HA	1.80	0.41
1:B:1245:ARG:O	1:B:1246:LEU:C	2.63	0.41
1:C:111:PRO:C	1:C:112:ILE:CG2	2.93	0.41
1:C:112:ILE:HA	1:C:191:PHE:O	2.20	0.41
1:C:165:ASN:O	1:C:166:ASP:HB2	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:284:MET:CE	1:C:294:VAL:HG13	2.50	0.41
1:C:419:TRP:CE3	1:C:537:GLU:HA	2.55	0.41
1:C:555:PHE:CD1	1:C:556:ARG:N	2.89	0.41
1:C:565:THR:CG2	1:C:603:HIS:HD2	2.33	0.41
1:C:1061:LEU:C	1:C:1063:HIS:H	2.28	0.41
1:C:1236:ARG:O	1:C:1238:THR:N	2.53	0.41
1:D:42:ASP:HB2	1:D:210:ARG:O	2.20	0.41
1:D:175:ARG:NH2	1:D:203:ASP:OD2	2.54	0.41
1:D:230:HIS:CE1	1:D:234:ILE:HG13	2.55	0.41
1:D:290:THR:HG22	1:D:292:PRO:CD	2.48	0.41
1:D:504:SER:HB2	1:D:508:ASN:OD1	2.21	0.41
1:D:823:MET:HE3	1:D:823:MET:HB2	1.50	0.41
1:D:986:ASP:OD2	1:D:1298:LYS:NZ	2.48	0.41
1:E:304:THR:HG21	1:E:518:ARG:HD2	2.03	0.41
1:E:419:TRP:CE3	1:E:537:GLU:HA	2.55	0.41
1:E:420:VAL:HG12	1:E:421:GLN:N	2.35	0.41
1:E:520:MET:O	1:E:521:SER:CB	2.69	0.41
1:E:930:ILE:CD1	1:E:983:LEU:HD13	2.43	0.41
1:E:1059:ASN:HD22	1:E:1059:ASN:N	2.19	0.41
1:E:1062:ARG:HH11	1:E:1062:ARG:HD3	1.53	0.41
1:E:1190:VAL:C	1:E:1192:PRO:HD3	2.44	0.41
1:E:1356:VAL:CG1	1:E:1431:HIS:CG	3.03	0.41
1:F:303:LEU:O	1:F:304:THR:C	2.61	0.41
1:F:505:GLN:HE22	1:F:1001:VAL:N	2.17	0.41
1:F:555:PHE:CD1	1:F:556:ARG:N	2.77	0.41
1:F:732:ARG:H	1:F:747:SER:HA	1.85	0.41
1:F:780:ARG:NH2	2:I:54:PHE:HD1	2.18	0.41
1:F:807:TYR:O	1:F:810:PHE:HB3	2.20	0.41
1:F:860:MET:HE1	1:F:893:ARG:NH1	2.35	0.41
1:F:937:LYS:N	1:F:938:PRO:HD3	2.35	0.41
1:F:1384:ALA:O	1:F:1385:ALA:C	2.60	0.41
1:F:1430:GLU:O	1:F:1431:HIS:C	2.62	0.41
2:G:302:MET:HE1	2:G:334:VAL:CG1	2.50	0.41
2:G:319:LEU:CD2	2:G:320:TYR:N	2.83	0.41
2:G:449:LEU:CD2	2:G:451:VAL:CG1	2.89	0.41
2:H:51:GLY:O	2:H:52:VAL:HG23	2.16	0.41
2:H:365:VAL:H	2:H:365:VAL:HG12	1.52	0.41
2:H:477:ALA:C	2:H:478:VAL:CG2	2.93	0.41
2:I:31:ILE:CG1	2:I:193:PHE:HD1	2.34	0.41
2:I:100:GLN:CB	2:I:105:GLU:CD	2.94	0.41
2:I:181:ARG:HB3	2:I:181:ARG:CZ	2.51	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:197:LYS:CB	2:I:273:LEU:HG	2.48	0.41
2:I:249:LYS:HD2	2:I:258:ILE:HD13	2.02	0.41
2:I:252:GLY:C	2:I:258:ILE:HG21	2.45	0.41
2:I:304:CYS:CA	2:I:307:THR:HG22	2.48	0.41
2:I:427:HIS:ND1	2:I:428:ARG:HG3	2.36	0.41
2:J:32:TYR:CD2	2:J:194:LYS:HA	2.55	0.41
2:J:137:VAL:CG1	2:J:138:LYS:N	2.82	0.41
2:J:181:ARG:HB3	2:J:181:ARG:CZ	2.51	0.41
2:J:190:ILE:HB	2:J:195:LEU:HD23	2.03	0.41
2:J:197:LYS:CD	2:J:274:GLY:N	2.83	0.41
2:J:252:GLY:C	2:J:258:ILE:HG21	2.45	0.41
2:J:427:HIS:ND1	2:J:428:ARG:HG3	2.36	0.41
2:J:447:ALA:CB	2:J:452:TRP:CE3	2.92	0.41
2:J:454:ILE:C	2:J:454:ILE:CD1	2.94	0.41
2:K:394:LEU:HD22	2:K:394:LEU:C	2.45	0.41
2:K:449:LEU:HD12	8:K:484:FAD:O2	2.20	0.41
2:L:31:ILE:CG1	2:L:193:PHE:HD1	2.33	0.41
2:L:119:THR:OG1	2:L:122:SER:HB3	2.21	0.41
2:L:177:ASP:OD2	2:L:182:MET:HE2	2.20	0.41
2:L:449:LEU:HD12	8:L:484:FAD:O2	2.20	0.41
1:A:90:ARG:HB3	1:A:107:TRP:CZ2	2.55	0.41
1:A:97:ILE:HA	1:A:151:ILE:HD13	2.01	0.41
1:A:345:MET:HE2	1:A:385:LEU:HB3	2.03	0.41
1:A:432:THR:O	1:A:433:ALA:C	2.61	0.41
1:A:720:ARG:C	1:A:722:GLY:H	2.29	0.41
1:A:832:ARG:HH11	1:A:832:ARG:HD2	1.73	0.41
1:A:843:VAL:CG1	1:A:844:GLU:H	2.30	0.41
1:A:894:PHE:CZ	1:A:924:GLN:HG3	2.55	0.41
1:A:985:TYR:CD1	1:A:1207:VAL:HG11	2.54	0.41
1:A:1056:LEU:HD23	1:A:1056:LEU:HA	1.87	0.41
1:A:1061:LEU:C	1:A:1063:HIS:H	2.28	0.41
1:A:1131:THR:HG21	1:A:1133:GLU:HB2	2.01	0.41
1:A:1210:THR:CG2	1:A:1211:LEU:N	2.47	0.41
1:A:1235:ALA:HA	1:A:1239:GLN:OE1	2.21	0.41
1:A:1427:LEU:O	1:A:1428:ILE:C	2.62	0.41
1:B:5:PHE:CZ	1:B:365:GLY:HA3	2.55	0.41
1:B:259:HIS:O	1:B:260:MET:C	2.63	0.41
1:B:420:VAL:C	1:B:422:ASN:H	2.29	0.41
1:B:457:THR:HA	1:B:773:LEU:HB3	2.02	0.41
1:B:764:THR:CG2	1:B:764:THR:O	2.63	0.41
1:B:782:ARG:C	1:B:784:SER:H	2.28	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:877:ARG:CG	1:F:1229:MET:C	2.94	0.41
1:B:997:THR:CG2	1:B:998:VAL:N	2.83	0.41
1:B:1354:THR:HA	1:B:1372:THR:O	2.21	0.41
1:B:1354:THR:HG21	1:B:1427:LEU:HD21	2.03	0.41
1:C:87:GLU:C	1:C:89:CYS:N	2.74	0.41
1:C:195:LEU:HD23	1:C:195:LEU:HA	1.57	0.41
1:C:447:LEU:HD11	1:C:451:GLN:CD	2.46	0.41
1:C:520:MET:O	1:C:521:SER:CB	2.69	0.41
1:C:606:LEU:O	1:C:607:THR:HG22	2.21	0.41
1:C:622:LEU:HD13	1:C:739:PHE:HZ	1.85	0.41
1:C:706:LYS:NZ	1:C:1034:PRO:HG2	2.36	0.41
1:C:864:SER:HB3	1:C:1116:GLY:O	2.21	0.41
1:C:1057:THR:CG2	1:C:1190:VAL:HG11	2.50	0.41
1:C:1111:ASN:OD1	1:C:1119:VAL:CG2	2.37	0.41
1:C:1394:VAL:CG1	1:C:1401:LEU:CD2	2.95	0.41
1:D:30:HIS:HE2	1:D:31:ARG:HD2	1.86	0.41
1:D:540:THR:O	1:D:542:LEU:HG	2.20	0.41
1:D:868:HIS:O	1:D:870:THR:N	2.53	0.41
1:D:1007:GLY:O	1:D:1008:THR:C	2.63	0.41
1:D:1435:THR:CG2	1:D:1437:SER:CB	2.99	0.41
1:E:29:TRP:C	1:E:31:ARG:N	2.75	0.41
1:E:90:ARG:HH12	1:E:129:GLU:CD	2.29	0.41
1:E:253:HIS:H	1:E:260:MET:CE	2.34	0.41
1:E:324:MET:HE2	1:E:327:TRP:NE1	2.31	0.41
1:E:339:ARG:O	1:E:395:LEU:HB2	2.21	0.41
1:E:386:GLY:O	1:E:387:PRO:C	2.60	0.41
1:E:447:LEU:HD11	1:E:451:GLN:CD	2.46	0.41
1:E:555:PHE:CD1	1:E:556:ARG:N	2.89	0.41
1:E:562:MET:HE3	1:E:566:ALA:CB	2.38	0.41
1:E:608:ASP:O	1:E:609:GLU:C	2.62	0.41
1:E:631:LEU:HA	1:E:631:LEU:HD22	1.39	0.41
1:E:1235:ALA:HA	1:E:1239:GLN:OE1	2.21	0.41
1:E:1394:VAL:CG1	1:E:1401:LEU:CD2	2.95	0.41
1:F:98:LEU:HA	1:F:98:LEU:HD23	1.62	0.41
1:F:420:VAL:C	1:F:422:ASN:H	2.29	0.41
1:F:458:MET:O	1:F:461:MET:N	2.50	0.41
1:F:559:ARG:O	1:F:559:ARG:NE	2.46	0.41
1:F:802:VAL:CG2	1:F:1134:LYS:O	2.69	0.41
1:F:802:VAL:CG2	1:F:1137:ASN:HB2	2.46	0.41
1:F:1044:PRO:HG2	1:F:1047:MET:HE3	2.01	0.41
1:F:1105:VAL:HG13	1:F:1107:GLN:CG	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:G:64:ASN:OD1	2:G:66:PRO:HG2	2.20	0.41
2:G:237:LEU:HD22	2:G:238:VAL:N	2.35	0.41
2:G:252:GLY:HA3	2:G:258:ILE:HG21	2.02	0.41
2:G:366:ARG:HG2	2:G:391:GLN:CA	2.29	0.41
2:G:378:GLN:O	2:G:378:GLN:HG2	2.20	0.41
2:G:394:LEU:HD22	2:G:394:LEU:C	2.45	0.41
2:G:477:ALA:C	2:G:478:VAL:CG2	2.93	0.41
2:H:26:GLN:HG3	2:H:310:ARG:O	2.20	0.41
2:H:249:LYS:HD2	2:H:258:ILE:HD13	2.02	0.41
2:H:264:TYR:CE2	2:H:307:THR:CG2	2.94	0.41
2:H:291:HIS:HD2	2:H:392:ALA:HB2	1.84	0.41
2:H:322:ARG:CD	2:H:349:ALA:CB	2.94	0.41
2:H:415:LEU:CD2	2:H:415:LEU:C	2.93	0.41
2:H:418:THR:N	2:H:424:LEU:CD2	2.83	0.41
2:H:425:VAL:HG21	2:H:444:VAL:HG22	2.01	0.41
2:H:469:LYS:O	2:H:472:ALA:HB3	2.20	0.41
2:I:148:LEU:CB	2:I:234:VAL:CG2	2.97	0.41
2:I:252:GLY:HA3	2:I:258:ILE:HG21	2.02	0.41
2:I:255:LEU:HD22	2:I:255:LEU:HA	1.92	0.41
2:I:353:PHE:N	2:I:369:LEU:HD23	2.36	0.41
2:J:31:ILE:CG1	2:J:193:PHE:HD1	2.34	0.41
2:J:100:GLN:CB	2:J:105:GLU:CD	2.94	0.41
2:J:137:VAL:HG12	2:J:139:PRO:HD3	2.03	0.41
2:J:177:ASP:OD2	2:J:182:MET:HE2	2.20	0.41
2:J:306:ARG:HD3	2:J:336:HIS:CB	2.45	0.41
2:J:469:LYS:O	2:J:472:ALA:HB3	2.20	0.41
2:K:59:CYS:SG	2:K:61:VAL:CG1	3.05	0.41
2:K:137:VAL:HG12	2:K:139:PRO:HD3	2.03	0.41
2:K:153:ILE:CG1	2:K:220:VAL:CG1	2.95	0.41
2:K:153:ILE:HG22	2:K:237:LEU:O	2.20	0.41
2:K:190:ILE:CG2	2:K:191:PRO:HD2	2.49	0.41
2:K:257:ASN:ND2	2:K:395:VAL:HG22	2.34	0.41
2:L:32:TYR:CD2	2:L:194:LYS:HA	2.55	0.41
2:L:63:ASN:OD1	2:L:68:TRP:CH2	2.74	0.41
2:L:319:LEU:CD2	2:L:320:TYR:N	2.83	0.41
1:A:355:TYR:CZ	1:A:383:GLY:HA3	2.56	0.41
1:A:391:ILE:O	1:A:391:ILE:CG2	2.63	0.41
1:A:635:ASN:O	1:A:636:LEU:HD13	2.20	0.41
1:A:900:GLY:HA2	1:C:1263:HIS:CE1	2.31	0.41
1:A:1124:LEU:HD12	1:A:1124:LEU:HA	1.28	0.41
1:A:1218:ASP:OD1	1:E:851:LYS:NZ	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:116:ILE:HD11	1:B:191:PHE:HB2	2.01	0.41
1:B:348:ASN:O	1:B:349:GLY:C	2.63	0.41
1:B:463:LEU:HD23	1:B:463:LEU:HA	1.20	0.41
1:B:500:ARG:HD2	1:B:728:ILE:HG21	2.02	0.41
1:B:660:GLY:HA2	1:B:721:GLY:N	2.33	0.41
1:B:756:LYS:HE2	1:B:1177:HIS:CD2	2.56	0.41
1:B:969:PRO:N	1:B:970:PRO:CD	2.84	0.41
1:B:987:LEU:HD23	1:B:987:LEU:HA	1.80	0.41
1:B:1230:GLN:O	1:B:1231:LEU:HD23	2.21	0.41
1:B:1398:ASP:O	1:B:1399:ASP:C	2.61	0.41
1:C:80:ARG:O	1:C:80:ARG:CG	2.69	0.41
1:C:90:ARG:HH12	1:C:129:GLU:CD	2.29	0.41
1:C:133:VAL:HG12	1:C:134:GLY:N	2.34	0.41
1:C:228:LEU:HD12	1:C:228:LEU:HA	1.29	0.41
1:C:273:ASP:OD1	1:C:273:ASP:N	2.54	0.41
1:C:290:THR:HG21	1:C:292:PRO:HD2	1.81	0.41
1:C:345:MET:HE2	1:C:385:LEU:HB3	2.03	0.41
1:C:573:PHE:CB	1:C:574:PRO:CD	2.96	0.41
1:C:1075:THR:HG23	1:C:1076:GLY:N	2.36	0.41
1:D:105:TYR:H	1:D:105:TYR:HD1	1.68	0.41
1:D:438:GLU:OE2	1:D:553:ALA:HB3	2.20	0.41
1:D:622:LEU:HD12	1:D:622:LEU:HA	1.59	0.41
1:D:739:PHE:HB3	1:D:740:PRO:HD2	2.03	0.41
1:D:770:VAL:O	1:D:770:VAL:CG1	2.67	0.41
1:D:875:MET:C	1:D:877:ARG:N	2.78	0.41
1:D:1080:VAL:HG11	1:D:1084:MET:HE3	1.95	0.41
1:D:1226:GLY:HA3	1:F:896:PRO:HG3	2.03	0.41
1:D:1463:LEU:HA	1:D:1463:LEU:HD23	1.71	0.41
1:E:185:ALA:C	1:E:187:GLN:N	2.76	0.41
1:E:403:ASP:CG	1:E:407:LYS:HZ3	2.11	0.41
1:E:464:ILE:CD1	1:E:779:TYR:CZ	2.94	0.41
1:E:495:LEU:O	1:E:496:HIS:C	2.62	0.41
1:E:803:THR:O	1:E:803:THR:CG2	2.62	0.41
1:E:978:GLU:HG3	1:E:979:ASP:H	1.85	0.41
1:E:1105:VAL:HG23	2:L:54:PHE:CE1	2.56	0.41
1:E:1425:LYS:HD3	1:E:1447:TRP:CD1	2.56	0.41
1:F:317:ILE:C	1:F:321:ASN:ND2	2.76	0.41
1:F:376:GLU:O	1:F:377:THR:C	2.62	0.41
1:F:410:LEU:HD12	1:F:410:LEU:N	2.36	0.41
1:F:622:LEU:HD12	1:F:622:LEU:HA	1.59	0.41
1:F:647:ALA:HB2	1:F:669:TYR:OH	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:856:PRO:HG2	1:F:1093:GLY:HA3	2.02	0.41
1:F:1150:LEU:O	1:F:1153:LEU:N	2.54	0.41
1:F:1212:ASP:OD1	1:F:1243:GLY:N	2.34	0.41
1:F:1222:LEU:HD12	1:F:1222:LEU:O	2.20	0.41
1:F:1354:THR:HG21	1:F:1427:LEU:HD21	2.03	0.41
1:F:1462:MET:O	1:F:1466:LEU:HB2	2.21	0.41
2:G:93:ILE:O	2:G:96:ARG:HG2	2.21	0.41
2:G:120:ILE:O	2:G:120:ILE:HG22	2.20	0.41
2:G:137:VAL:C	2:G:139:PRO:HD3	2.46	0.41
2:G:144:ARG:HD3	2:G:465:HIS:ND1	2.36	0.41
2:G:145:GLU:O	2:G:145:GLU:HG2	2.12	0.41
2:G:454:ILE:C	2:G:454:ILE:CD1	2.94	0.41
2:H:454:ILE:C	2:H:454:ILE:CD1	2.94	0.41
2:I:69:LEU:HA	2:I:72:THR:CG2	2.51	0.41
2:I:119:THR:O	2:I:123:VAL:HG22	2.21	0.41
2:I:432:THR:CG2	2:I:437:VAL:HG13	2.50	0.41
2:J:288:ALA:CB	2:J:311:GLN:HG3	2.50	0.41
2:K:69:LEU:HA	2:K:72:THR:CG2	2.51	0.41
2:K:113:SER:HB3	2:K:115:HIS:CD2	2.55	0.41
2:K:119:THR:O	2:K:123:VAL:HG22	2.21	0.41
2:K:181:ARG:HB3	2:K:181:ARG:HH11	1.85	0.41
2:L:302:MET:HE1	2:L:334:VAL:CG1	2.50	0.41
2:L:316:VAL:HG12	2:L:342:VAL:HG13	2.02	0.41
2:L:353:PHE:CD1	2:L:382:VAL:CG1	3.01	0.41
1:A:90:ARG:HH12	1:A:129:GLU:CD	2.29	0.41
1:A:309:THR:HG21	1:A:314:LYS:HG3	2.02	0.41
1:A:339:ARG:O	1:A:395:LEU:HB2	2.21	0.41
1:A:696:TYR:CZ	1:A:700:ILE:HD11	2.55	0.41
1:A:708:MET:O	1:A:709:SER:C	2.63	0.41
1:A:842:GLU:O	1:A:1156:ARG:HG2	2.21	0.41
1:A:1059:ASN:O	1:A:1060:ARG:C	2.63	0.41
1:A:1289:MET:CE	1:A:1289:MET:N	2.76	0.41
1:B:117:ILE:HD12	1:B:117:ILE:HG21	1.49	0.41
1:B:218:THR:CG2	1:B:221:LEU:H	2.30	0.41
1:B:948:LYS:C	1:B:950:THR:N	2.78	0.41
1:B:1135:VAL:O	1:B:1138:LEU:N	2.54	0.41
1:C:309:THR:HB	1:C:314:LYS:CE	2.51	0.41
1:C:691:LYS:O	1:C:691:LYS:HG3	2.20	0.41
1:C:735:VAL:HG23	1:C:735:VAL:H	1.49	0.41
1:C:757:LYS:O	1:C:758:VAL:C	2.59	0.41
1:C:780:ARG:NH2	2:K:54:PHE:HD1	2.16	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:894:PHE:CD1	1:C:904:ASN:ND2	2.88	0.41
1:C:978:GLU:HG3	1:C:979:ASP:H	1.85	0.41
1:C:1131:THR:HG22	1:C:1133:GLU:H	1.81	0.41
1:C:1262:GLY:O	1:C:1263:HIS:C	2.63	0.41
1:C:1401:LEU:HD11	1:C:1405:ILE:CD1	2.50	0.41
1:D:56:LYS:CG	1:D:71:LEU:HD22	2.49	0.41
1:D:120:LYS:HE2	1:D:120:LYS:HA	2.00	0.41
1:D:387:PRO:HD3	1:D:1344:GLU:CD	2.42	0.41
1:D:608:ASP:OD2	1:D:646:THR:HA	2.20	0.41
1:D:764:THR:CG2	1:D:764:THR:O	2.63	0.41
1:D:803:THR:C	1:D:805:ASP:N	2.79	0.41
1:D:875:MET:SD	1:D:1139:PHE:CE2	3.14	0.41
1:D:999:LYS:CG	1:D:1022:LEU:CD2	2.64	0.41
1:D:1138:LEU:HD12	1:D:1138:LEU:HA	1.66	0.41
1:D:1228:LYS:CB	1:F:901:ASP:OD1	2.59	0.41
1:D:1398:ASP:O	1:D:1399:ASP:C	2.61	0.41
1:E:273:ASP:OD1	1:E:273:ASP:N	2.54	0.41
1:E:376:GLU:HG3	1:E:1310:THR:OG1	2.20	0.41
1:E:598:ARG:HH11	1:E:598:ARG:HD3	1.72	0.41
1:E:622:LEU:HD13	1:E:739:PHE:HZ	1.85	0.41
1:E:691:LYS:O	1:E:691:LYS:HG3	2.20	0.41
1:E:706:LYS:NZ	1:E:1034:PRO:HG2	2.36	0.41
1:E:1170:GLN:HB2	1:E:1183:LEU:HD12	2.02	0.41
1:E:1395:TYR:HD2	1:E:1454:PHE:CE1	2.39	0.41
1:E:1465:ARG:HE	1:E:1465:ARG:HB3	1.62	0.41
1:F:117:ILE:HD12	1:F:117:ILE:HG21	1.49	0.41
1:F:204:PHE:CD2	1:F:204:PHE:C	2.97	0.41
1:F:230:HIS:CE1	1:F:234:ILE:HG13	2.55	0.41
1:F:457:THR:HA	1:F:773:LEU:HB3	2.02	0.41
1:F:561:TYR:CD1	1:F:561:TYR:O	2.74	0.41
1:F:661:VAL:HG12	1:F:661:VAL:O	2.21	0.41
1:F:875:MET:SD	1:F:1139:PHE:CE2	3.14	0.41
1:F:1047:MET:HB2	1:F:1048:GLY:H	1.77	0.41
2:G:31:ILE:CG1	2:G:193:PHE:HD1	2.34	0.41
2:G:51:GLY:C	2:G:52:VAL:CG2	2.93	0.41
2:G:145:GLU:O	2:G:171:TYR:CE1	2.74	0.41
2:G:359:VAL:O	2:G:359:VAL:HG13	2.20	0.41
2:H:64:ASN:OD1	2:H:66:PRO:HG2	2.20	0.41
2:H:69:LEU:HA	2:H:72:THR:CG2	2.51	0.41
2:H:93:ILE:O	2:H:96:ARG:HG2	2.21	0.41
2:H:113:SER:HB3	2:H:115:HIS:CD2	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:137:VAL:HG12	2:H:139:PRO:HD3	2.03	0.41
2:H:181:ARG:HE	2:H:187:VAL:CG1	2.34	0.41
2:H:197:LYS:CD	2:H:274:GLY:N	2.83	0.41
2:H:302:MET:HE1	2:H:334:VAL:CG1	2.50	0.41
2:H:353:PHE:N	2:H:369:LEU:HD23	2.36	0.41
2:H:432:THR:CG2	2:H:437:VAL:HG13	2.50	0.41
2:H:449:LEU:HD12	8:H:484:FAD:O2	2.20	0.41
2:I:119:THR:OG1	2:I:122:SER:HB3	2.21	0.41
2:I:173:VAL:CG2	2:I:174:HIS:N	2.81	0.41
2:I:418:THR:CB	2:I:424:LEU:CD1	2.93	0.41
2:J:71:LEU:CD1	2:J:80:ALA:N	2.81	0.41
2:J:249:LYS:HD2	2:J:258:ILE:HD13	2.02	0.41
2:J:277:VAL:CG1	2:J:278:GLU:N	2.81	0.41
2:K:28:PHE:HZ	2:K:285:LEU:HD21	1.83	0.41
2:K:120:ILE:O	2:K:120:ILE:HG22	2.20	0.41
2:K:181:ARG:HB3	2:K:181:ARG:CZ	2.51	0.41
2:K:190:ILE:HB	2:K:195:LEU:HD23	2.03	0.41
2:K:240:THR:HG23	2:K:443:ILE:HG21	2.01	0.41
2:L:100:GLN:CB	2:L:105:GLU:CD	2.94	0.41
2:L:119:THR:O	2:L:123:VAL:HG22	2.21	0.41
2:L:454:ILE:C	2:L:454:ILE:CD1	2.94	0.41
2:L:469:LYS:HZ2	2:L:476:VAL:HB	1.85	0.41
1:A:98:LEU:HD23	1:A:98:LEU:HA	1.82	0.41
1:A:333:LEU:HD23	1:A:333:LEU:HA	1.85	0.41
1:A:386:GLY:H	1:A:389:GLU:CG	2.33	0.41
1:A:558:MET:O	1:A:559:ARG:C	2.60	0.41
1:A:583:ARG:NE	1:A:587:ARG:NH1	2.68	0.41
1:A:622:LEU:HD13	1:A:739:PHE:HZ	1.85	0.41
1:A:978:GLU:HG3	1:A:979:ASP:H	1.85	0.41
1:A:1044:PRO:HG2	1:A:1047:MET:HE3	2.03	0.41
1:A:1059:ASN:HD22	1:A:1059:ASN:N	2.19	0.41
1:A:1085:LEU:N	1:A:1085:LEU:HD23	2.36	0.41
1:A:1158:LEU:HA	1:A:1158:LEU:HD12	1.62	0.41
1:A:1170:GLN:HB2	1:A:1183:LEU:HD12	2.02	0.41
1:A:1263:HIS:ND1	1:E:899:ASN:C	2.76	0.41
1:A:1374:VAL:HG12	1:A:1375:ILE:H	1.86	0.41
1:B:240:ASN:HB3	1:B:327:TRP:CH2	2.56	0.41
1:B:317:ILE:C	1:B:321:ASN:ND2	2.76	0.41
1:B:458:MET:O	1:B:461:MET:N	2.50	0.41
1:B:515:ARG:H	1:B:515:ARG:HG3	1.63	0.41
1:B:547:SER:C	1:B:549:VAL:N	2.77	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:648:GLU:O	1:B:648:GLU:HG2	2.21	0.41
1:B:860:MET:HE1	1:B:893:ARG:NH1	2.35	0.41
1:B:896:PRO:HG3	1:F:1226:GLY:HA3	2.03	0.41
1:B:957:ARG:HD2	1:B:965:LEU:HD12	2.02	0.41
1:B:1229:MET:C	1:D:877:ARG:CG	2.94	0.41
1:B:1295:TYR:CD1	1:B:1295:TYR:N	2.87	0.41
1:B:1412:PHE:CD1	1:B:1412:PHE:N	2.88	0.41
1:B:1435:THR:CG2	1:B:1437:SER:CB	2.99	0.41
1:C:97:ILE:HA	1:C:151:ILE:HD13	2.01	0.41
1:C:320:CYS:O	1:C:322:SER:N	2.54	0.41
1:C:443:ASP:OD2	1:C:445:ALA:HB3	2.21	0.41
1:C:603:HIS:ND1	1:C:641:SER:OG	2.45	0.41
1:C:636:LEU:HA	1:C:636:LEU:HD12	1.61	0.41
1:C:651:ASP:OD1	1:C:651:ASP:N	2.43	0.41
1:C:720:ARG:C	1:C:722:GLY:H	2.29	0.41
1:C:781:PHE:CE2	2:K:57:VAL:CG1	3.04	0.41
1:C:803:THR:O	1:C:803:THR:CG2	2.62	0.41
1:C:833:SER:HB2	1:C:1167:LEU:HD22	2.03	0.41
1:C:864:SER:HB3	1:C:1117:VAL:O	2.21	0.41
1:C:894:PHE:CZ	1:C:924:GLN:HG3	2.55	0.41
1:C:976:SER:O	1:C:979:ASP:N	2.54	0.41
1:C:1374:VAL:HG12	1:C:1375:ILE:H	1.86	0.41
1:C:1407:ASP:O	1:C:1409:SER:N	2.53	0.41
1:D:172:LEU:C	1:D:172:LEU:HD12	2.43	0.41
1:D:242:ASN:C	1:D:244:MET:H	2.28	0.41
1:D:242:ASN:C	1:D:244:MET:N	2.72	0.41
1:D:491:LYS:HE2	1:D:785:GLY:HA3	2.02	0.41
1:D:551:THR:O	1:D:552:THR:C	2.64	0.41
1:D:554:GLU:O	1:D:555:PHE:C	2.61	0.41
1:D:559:ARG:O	1:D:559:ARG:HG3	2.17	0.41
1:D:609:GLU:C	1:D:611:MET:N	2.77	0.41
1:D:783:LYS:H	2:H:56:GLN:HG3	1.86	0.41
1:D:839:PRO:CG	1:D:842:GLU:OE1	2.69	0.41
1:D:937:LYS:N	1:D:938:PRO:HD3	2.35	0.41
1:D:970:PRO:O	1:D:970:PRO:CG	2.68	0.41
1:D:1047:MET:HB2	1:D:1048:GLY:H	1.77	0.41
1:D:1066:ARG:NH1	1:D:1089:GLU:OE2	2.53	0.41
1:D:1135:VAL:O	1:D:1138:LEU:N	2.54	0.41
1:D:1354:THR:HG21	1:D:1427:LEU:HD21	2.03	0.41
1:D:1412:PHE:CD1	1:D:1412:PHE:N	2.88	0.41
1:E:42:ASP:OD1	1:E:212:SER:OG	2.39	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:82:SER:O	1:E:83:LEU:C	2.62	0.41
1:E:195:LEU:HA	1:E:195:LEU:HD23	1.57	0.41
1:E:345:MET:HE2	1:E:385:LEU:HB3	2.03	0.41
1:E:355:TYR:CZ	1:E:383:GLY:HA3	2.56	0.41
1:E:426:LEU:CD2	1:E:543:LEU:CB	2.93	0.41
1:E:432:THR:O	1:E:433:ALA:C	2.61	0.41
1:E:861:GLY:O	1:E:862:ALA:C	2.61	0.41
1:E:864:SER:HB3	1:E:1117:VAL:O	2.21	0.41
1:E:894:PHE:CD1	1:E:904:ASN:ND2	2.88	0.41
1:E:952:MET:O	1:E:953:ILE:C	2.63	0.41
1:E:1039:LYS:O	1:E:1040:PHE:CD1	2.73	0.41
1:E:1057:THR:CG2	1:E:1190:VAL:HG11	2.50	0.41
1:E:1246:LEU:O	1:E:1249:MET:HB2	2.20	0.41
1:E:1370:GLY:N	1:E:1389:GLY:O	2.53	0.41
1:F:30:HIS:HE2	1:F:31:ARG:HD2	1.86	0.41
1:F:87:GLU:O	1:F:90:ARG:N	2.54	0.41
1:F:280:VAL:O	1:F:281:PHE:C	2.62	0.41
1:F:293:MET:HB3	1:F:293:MET:HE3	1.84	0.41
1:F:295:LYS:CG	1:F:390:MET:HE1	2.51	0.41
1:F:450:ARG:C	1:F:452:GLN:N	2.79	0.41
1:F:504:SER:HB2	1:F:508:ASN:OD1	2.21	0.41
1:F:569:ILE:N	1:F:569:ILE:CD1	2.77	0.41
1:F:806:SER:HG	1:F:809:THR:HB	1.86	0.41
1:F:841:ASP:OD1	1:F:841:ASP:N	2.51	0.41
1:F:843:VAL:CG1	1:F:844:GLU:H	2.32	0.41
1:F:1066:ARG:NH1	1:F:1089:GLU:OE2	2.53	0.41
1:F:1245:ARG:O	1:F:1246:LEU:C	2.63	0.41
1:F:1282:GLN:HA	1:F:1302:GLY:O	2.20	0.41
1:F:1427:LEU:HD23	1:F:1427:LEU:HA	1.94	0.41
1:F:1461:GLU:H	1:F:1461:GLU:HG2	1.64	0.41
2:G:69:LEU:HA	2:G:72:THR:CG2	2.51	0.41
2:G:77:LEU:C	2:G:127:ILE:HD11	2.44	0.41
2:G:100:GLN:CB	2:G:105:GLU:CD	2.94	0.41
2:G:137:VAL:HG12	2:G:139:PRO:HD3	2.03	0.41
2:G:186:LEU:HD21	2:G:200:VAL:CB	2.47	0.41
2:G:353:PHE:N	2:G:369:LEU:HD23	2.36	0.41
2:G:358:VAL:HG22	2:G:365:VAL:HG11	1.99	0.41
2:G:425:VAL:HG21	2:G:444:VAL:HG22	2.01	0.41
2:G:427:HIS:ND1	2:G:428:ARG:HG3	2.36	0.41
2:H:31:ILE:CG1	2:H:193:PHE:HD1	2.33	0.41
2:H:90:PHE:HZ	2:H:160:LEU:CB	2.33	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:H:181:ARG:HB3	2:H:181:ARG:CZ	2.51	0.41
2:H:212:VAL:HG12	2:H:212:VAL:H	1.49	0.41
2:H:292:VAL:HG22	2:H:394:LEU:CD1	2.30	0.41
2:H:342:VAL:CG1	2:H:343:GLU:N	2.83	0.41
2:H:351:GLU:CB	2:H:353:PHE:HB3	2.47	0.41
2:H:429:THR:HB	2:H:431:MET:HG3	2.02	0.41
2:I:51:GLY:O	2:I:52:VAL:HG23	2.16	0.41
2:I:63:ASN:OD1	2:I:68:TRP:CH2	2.74	0.41
2:I:153:ILE:HG22	2:I:237:LEU:O	2.20	0.41
2:I:200:VAL:HA	2:I:203:ARG:HD2	1.97	0.41
2:I:291:HIS:HD2	2:I:392:ALA:HB2	1.84	0.41
2:I:302:MET:HE1	2:I:334:VAL:CG1	2.50	0.41
2:I:316:VAL:HG12	2:I:342:VAL:HG13	2.02	0.41
2:J:69:LEU:HA	2:J:72:THR:CG2	2.51	0.41
2:J:212:VAL:HG12	2:J:212:VAL:H	1.49	0.41
2:J:367:ILE:C	2:J:367:ILE:CD1	2.94	0.41
2:J:387:GLU:CG	2:J:388:PHE:N	2.82	0.41
2:J:406:LEU:CD2	2:J:406:LEU:N	2.82	0.41
2:K:100:GLN:CB	2:K:105:GLU:CD	2.94	0.41
2:K:144:ARG:HD3	2:K:465:HIS:ND1	2.36	0.41
2:K:212:VAL:HG12	2:K:212:VAL:H	1.49	0.41
2:K:249:LYS:HD2	2:K:258:ILE:HD13	2.02	0.41
2:K:291:HIS:HD2	2:K:392:ALA:HB2	1.84	0.41
2:K:418:THR:N	2:K:424:LEU:CD2	2.83	0.41
2:K:425:VAL:HG21	2:K:444:VAL:HG22	2.01	0.41
2:K:427:HIS:ND1	2:K:428:ARG:HG3	2.36	0.41
2:K:454:ILE:C	2:K:454:ILE:CD1	2.94	0.41
2:L:174:HIS:CD2	2:L:176:TYR:CD1	3.08	0.41
2:L:252:GLY:HA3	2:L:258:ILE:HG21	2.02	0.41
2:L:266:THR:HG23	2:L:270:LYS:NZ	2.33	0.41
2:L:322:ARG:O	2:L:346:TRP:CD1	2.74	0.41
2:L:367:ILE:O	2:L:390:VAL:HG23	2.20	0.41
2:L:394:LEU:HD22	2:L:394:LEU:C	2.45	0.41
2:L:427:HIS:ND1	2:L:428:ARG:HG3	2.36	0.41
1:A:5:PHE:CD1	1:A:5:PHE:C	2.98	0.41
1:A:244:MET:C	1:A:246:ALA:H	2.29	0.41
1:A:381:GLU:CD	1:A:402:ARG:HH11	2.23	0.41
1:A:443:ASP:OD2	1:A:445:ALA:HB3	2.21	0.41
1:A:505:GLN:NE2	1:A:1000:LEU:HB3	2.35	0.41
1:A:706:LYS:NZ	1:A:1034:PRO:HG2	2.36	0.41
1:A:746:ILE:CG2	1:A:747:SER:N	2.76	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:969:PRO:CD	1:A:970:PRO:CD	2.99	0.41
1:A:1021:ILE:HG21	1:A:1021:ILE:HD13	1.81	0.41
1:A:1463:LEU:HA	1:A:1463:LEU:HD23	1.66	0.41
1:B:149:TYR:O	1:B:150:ILE:C	2.63	0.41
1:B:240:ASN:HB3	1:B:327:TRP:CZ2	2.56	0.41
1:B:390:MET:HG3	1:B:406:LEU:CD2	2.48	0.41
1:B:438:GLU:OE2	1:B:553:ALA:HB3	2.20	0.41
1:B:447:LEU:HD12	1:B:451:GLN:CD	2.45	0.41
1:B:551:THR:OG1	1:B:554:GLU:CG	2.65	0.41
1:B:739:PHE:HB3	1:B:740:PRO:HD2	2.03	0.41
1:B:787:ARG:HH11	1:B:787:ARG:HD3	1.73	0.41
1:B:839:PRO:CG	1:B:842:GLU:OE1	2.69	0.41
1:B:860:MET:HE2	1:B:860:MET:HB2	1.39	0.41
1:B:875:MET:SD	1:B:1139:PHE:CE2	3.14	0.41
1:B:1129:VAL:O	1:B:1129:VAL:HG23	2.19	0.41
1:B:1446:ASP:O	1:B:1447:TRP:C	2.64	0.41
1:C:173:SER:HG	1:C:176:SER:H	1.65	0.41
1:C:360:ASP:OD1	1:C:360:ASP:N	2.49	0.41
1:C:402:ARG:HH11	1:C:402:ARG:HD3	1.68	0.41
1:C:495:LEU:O	1:C:496:HIS:C	2.62	0.41
1:C:551:THR:O	1:C:552:THR:C	2.61	0.41
1:C:851:LYS:NZ	1:E:1218:ASP:OD1	2.54	0.41
1:C:896:PRO:HG2	1:E:1226:GLY:CA	2.26	0.41
1:C:1170:GLN:HB2	1:C:1183:LEU:HD12	2.02	0.41
1:C:1400:SER:C	1:C:1402:PRO:HD2	2.46	0.41
1:C:1466:LEU:O	1:C:1468:VAL:N	2.53	0.41
1:D:240:ASN:HB3	1:D:327:TRP:CZ2	2.56	0.41
1:D:756:LYS:HE2	1:D:1177:HIS:CD2	2.56	0.41
1:D:928:LEU:HD23	1:D:928:LEU:HA	1.65	0.41
1:D:1318:ASN:N	1:D:1318:ASN:HD22	2.08	0.41
1:E:5:PHE:CD1	1:E:5:PHE:C	2.98	0.41
1:E:320:CYS:O	1:E:322:SER:N	2.54	0.41
1:E:353:MET:HE2	1:E:366:GLY:N	2.36	0.41
1:E:362:LEU:HD12	1:E:362:LEU:HA	1.88	0.41
1:E:503:PHE:CE2	1:E:938:PRO:HB3	2.56	0.41
1:E:720:ARG:C	1:E:722:GLY:H	2.29	0.41
1:E:864:SER:HB3	1:E:1116:GLY:O	2.21	0.41
1:E:1075:THR:HG23	1:E:1076:GLY:N	2.36	0.41
1:E:1366:GLU:CG	1:E:1367:TYR:CD2	2.92	0.41
1:F:226:ARG:N	1:F:278:ASP:OD2	2.53	0.41
1:F:575:VAL:HG13	1:F:759:LEU:HD22	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:636:LEU:O	1:F:637:ARG:C	2.64	0.41
1:F:782:ARG:C	1:F:784:SER:H	2.28	0.41
1:F:969:PRO:N	1:F:970:PRO:CD	2.84	0.41
1:F:1190:VAL:HG12	1:F:1191:ASP:N	2.36	0.41
2:G:71:LEU:CD1	2:G:80:ALA:N	2.81	0.41
2:G:305:VAL:HG12	2:G:306:ARG:N	2.33	0.41
2:H:63:ASN:OD1	2:H:68:TRP:CH2	2.74	0.41
2:H:71:LEU:HD12	2:H:80:ALA:CA	2.49	0.41
2:H:100:GLN:CB	2:H:105:GLU:CD	2.94	0.41
2:H:110:ILE:HG13	2:H:116:GLY:O	2.21	0.41
2:H:137:VAL:C	2:H:139:PRO:HD3	2.46	0.41
2:H:367:ILE:C	2:H:367:ILE:CD1	2.94	0.41
2:I:110:ILE:HG13	2:I:116:GLY:O	2.21	0.41
2:I:137:VAL:HG12	2:I:139:PRO:HD3	2.03	0.41
2:I:181:ARG:HH11	2:I:181:ARG:CB	2.34	0.41
2:I:190:ILE:HB	2:I:195:LEU:HD23	2.03	0.41
2:I:322:ARG:O	2:I:346:TRP:CD1	2.74	0.41
2:I:409:ALA:O	2:I:413:PRO:HD3	2.21	0.41
2:J:137:VAL:C	2:J:139:PRO:HD3	2.46	0.41
2:J:302:MET:HE1	2:J:334:VAL:CG1	2.50	0.41
2:J:405:ASP:C	2:J:407:PRO:HD2	2.46	0.41
2:K:31:ILE:CG1	2:K:193:PHE:HD1	2.34	0.41
2:K:93:ILE:O	2:K:96:ARG:HG2	2.21	0.41
2:L:353:PHE:N	2:L:369:LEU:HD23	2.36	0.41
2:L:409:ALA:O	2:L:413:PRO:HD3	2.21	0.41
1:A:309:THR:HB	1:A:314:LYS:CE	2.51	0.40
1:A:775:VAL:H	1:A:775:VAL:HG23	1.67	0.40
1:A:836:ALA:HB1	1:A:837:PRO:CD	2.52	0.40
1:A:864:SER:HB3	1:A:1117:VAL:O	2.21	0.40
1:A:1108:CYS:SG	6:A:2476:F3S:S2	3.20	0.40
1:A:1131:THR:CG2	1:A:1133:GLU:HB2	2.52	0.40
1:A:1370:GLY:N	1:A:1389:GLY:O	2.53	0.40
1:B:68:ASP:OD1	1:B:68:ASP:N	2.54	0.40
1:B:230:HIS:CE1	1:B:234:ILE:HG13	2.55	0.40
1:B:319:TYR:O	1:B:320:CYS:C	2.61	0.40
1:B:504:SER:HB2	1:B:508:ASN:OD1	2.21	0.40
1:B:666:VAL:HG13	1:B:667:ASN:N	2.34	0.40
1:B:780:ARG:HH21	2:G:54:PHE:HE1	1.59	0.40
1:B:875:MET:O	1:B:877:ARG:N	2.54	0.40
1:C:5:PHE:CD1	1:C:5:PHE:C	2.98	0.40
1:C:30:HIS:CE1	1:C:368:GLU:OE1	2.68	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:233:GLU:O	1:C:329:GLY:HA3	2.21	0.40
1:C:304:THR:HG21	1:C:518:ARG:HD2	2.03	0.40
1:C:522:LEU:O	1:C:523:LYS:C	2.63	0.40
1:C:708:MET:O	1:C:709:SER:C	2.63	0.40
1:C:782:ARG:CZ	2:K:53:PRO:HD3	2.52	0.40
1:C:1044:PRO:HG2	1:C:1047:MET:HE3	2.03	0.40
1:C:1406:ASN:OD1	1:C:1406:ASN:C	2.64	0.40
1:D:94:GLU:O	1:D:95:THR:C	2.65	0.40
1:D:447:LEU:HD21	1:D:674:ALA:N	2.36	0.40
1:D:606:LEU:HA	1:D:606:LEU:HD23	1.77	0.40
1:D:782:ARG:NE	2:H:53:PRO:CD	2.81	0.40
1:D:914:ARG:NH2	1:D:973:ASP:OD1	2.54	0.40
1:D:1077:ARG:HG2	1:D:1078:ASP:H	1.86	0.40
1:D:1383:PHE:O	1:D:1384:ALA:CB	2.64	0.40
1:E:77:PHE:HB3	1:E:126:PRO:CB	2.50	0.40
1:E:103:TYR:OH	1:F:1178:LEU:HD13	2.20	0.40
1:E:112:ILE:HA	1:E:191:PHE:O	2.20	0.40
1:E:121:ALA:C	1:E:123:ALA:H	2.29	0.40
1:E:144:PHE:HD1	1:E:144:PHE:HA	1.68	0.40
1:E:393:VAL:CG1	1:E:394:ASP:N	2.77	0.40
1:E:449:ARG:O	1:E:450:ARG:C	2.63	0.40
1:E:461:MET:CE	1:E:461:MET:HA	2.51	0.40
1:E:606:LEU:O	1:E:607:THR:HG22	2.21	0.40
1:F:242:ASN:C	1:F:244:MET:H	2.28	0.40
1:F:263:LEU:HA	1:F:263:LEU:HD12	1.11	0.40
1:F:515:ARG:H	1:F:515:ARG:HG3	1.63	0.40
1:F:756:LYS:HE2	1:F:1177:HIS:CD2	2.56	0.40
1:F:770:VAL:O	1:F:770:VAL:CG1	2.67	0.40
1:F:783:LYS:H	2:I:56:GLN:HG3	1.86	0.40
1:F:829:LEU:HD21	1:F:1183:LEU:HD13	2.04	0.40
1:F:829:LEU:CD1	1:F:1168:LEU:HD13	2.46	0.40
1:F:873:VAL:O	1:F:874:ALA:C	2.60	0.40
1:F:1076:GLY:O	1:F:1077:ARG:C	2.62	0.40
1:F:1077:ARG:HG2	1:F:1078:ASP:H	1.86	0.40
2:G:90:PHE:HZ	2:G:160:LEU:CB	2.33	0.40
2:G:197:LYS:CD	2:G:274:GLY:N	2.83	0.40
2:G:418:THR:N	2:G:424:LEU:CD2	2.83	0.40
2:H:77:LEU:C	2:H:127:ILE:HD11	2.44	0.40
2:H:97:ILE:CD1	2:H:450:VAL:CG1	2.95	0.40
2:H:137:VAL:O	2:H:139:PRO:HD3	2.21	0.40
2:I:46:ARG:NH1	2:I:110:ILE:HD12	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:96:ARG:CA	2:I:125:LYS:HD2	2.49	0.40
2:I:367:ILE:C	2:I:367:ILE:CD1	2.94	0.40
2:I:469:LYS:O	2:I:472:ALA:HB3	2.20	0.40
2:J:96:ARG:CA	2:J:125:LYS:HD2	2.49	0.40
2:J:269:ASN:HD22	2:J:273:LEU:HD23	1.85	0.40
2:J:425:VAL:HG21	2:J:444:VAL:HG22	2.01	0.40
2:K:119:THR:OG1	2:K:122:SER:HB3	2.21	0.40
2:K:353:PHE:N	2:K:369:LEU:HD23	2.36	0.40
2:K:405:ASP:C	2:K:407:PRO:HD2	2.46	0.40
2:K:417:VAL:HG13	2:K:422:THR:N	2.37	0.40
2:L:59:CYS:SG	2:L:61:VAL:CG1	3.05	0.40
2:L:165:GLU:OE2	2:L:458:ARG:HD2	2.22	0.40
2:L:181:ARG:CG	2:L:182:MET:N	2.83	0.40
2:L:181:ARG:HB3	2:L:181:ARG:HH11	1.85	0.40
2:L:181:ARG:HE	2:L:187:VAL:CG1	2.34	0.40
1:A:503:PHE:CE2	1:A:938:PRO:HB3	2.56	0.40
1:A:528:ASN:O	1:A:529:LEU:HD23	2.22	0.40
1:A:595:ASP:O	1:A:596:ALA:O	2.38	0.40
1:B:80:ARG:O	1:B:80:ARG:HG3	2.21	0.40
1:B:87:GLU:O	1:B:90:ARG:N	2.54	0.40
1:B:144:PHE:HD1	1:B:144:PHE:HA	1.71	0.40
1:B:317:ILE:HG22	1:B:321:ASN:ND2	2.27	0.40
1:B:406:LEU:O	1:B:409:HIS:HB3	2.22	0.40
1:B:525:ARG:HG2	1:B:542:LEU:CD1	2.47	0.40
1:B:783:LYS:H	2:G:56:GLN:HG3	1.86	0.40
1:B:969:PRO:HD2	1:B:970:PRO:CD	2.52	0.40
1:B:1375:ILE:HG21	1:B:1375:ILE:HD13	1.63	0.40
1:C:6:ILE:HB	1:C:205:ALA:HB3	2.03	0.40
1:C:286:ARG:HA	1:C:286:ARG:HD3	1.60	0.40
1:C:355:TYR:CZ	1:C:383:GLY:HA3	2.56	0.40
1:C:528:ASN:O	1:C:529:LEU:HD23	2.21	0.40
1:C:804:ASN:O	1:C:805:ASP:CB	2.69	0.40
1:C:842:GLU:O	1:C:1156:ARG:HG2	2.21	0.40
1:C:877:ARG:HD3	1:E:1230:GLN:CB	2.34	0.40
1:C:930:ILE:CD1	1:C:983:LEU:HD13	2.43	0.40
1:C:1413:GLN:OE1	1:C:1470:VAL:HG13	2.22	0.40
1:D:25:LEU:HD23	1:D:25:LEU:HA	1.85	0.40
1:D:116:ILE:HG21	1:D:190:THR:HG21	2.03	0.40
1:D:450:ARG:C	1:D:452:GLN:N	2.79	0.40
1:D:588:ARG:HH11	1:D:588:ARG:HD3	1.68	0.40
1:D:732:ARG:N	1:D:747:SER:HA	2.37	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:819:LYS:HA	1:D:819:LYS:HD3	1.60	0.40
1:D:829:LEU:HD21	1:D:1183:LEU:HD13	2.03	0.40
1:D:1116:GLY:HA3	1:D:1128:PHE:HB2	2.04	0.40
1:D:1219:ALA:HA	1:D:1229:MET:HE3	2.03	0.40
1:D:1401:LEU:O	1:D:1401:LEU:CD1	2.38	0.40
1:E:55:PHE:O	1:E:58:HIS:HB3	2.22	0.40
1:E:244:MET:HE3	1:E:244:MET:HB2	1.34	0.40
1:E:290:THR:HG21	1:E:292:PRO:HD2	1.81	0.40
1:E:298:LEU:C	1:E:300:PRO:HD3	2.46	0.40
1:E:476:ILE:CG2	1:E:477:GLY:N	2.83	0.40
1:E:482:ASP:OD2	1:E:790:TRP:N	2.47	0.40
1:E:510:PRO:CD	1:E:970:PRO:HB3	2.37	0.40
1:E:628:HIS:O	1:E:629:THR:C	2.64	0.40
1:E:696:TYR:CZ	1:E:700:ILE:HD11	2.55	0.40
1:E:842:GLU:HG2	1:E:1156:ARG:HD3	2.04	0.40
1:E:855:THR:O	1:E:855:THR:CG2	2.69	0.40
1:E:1059:ASN:O	1:E:1060:ARG:C	2.63	0.40
1:E:1184:ASN:CB	1:E:1185:PRO:CD	2.82	0.40
1:E:1273:GLY:O	1:E:1274:GLN:C	2.63	0.40
1:E:1299:GLY:O	1:E:1300:LEU:C	2.64	0.40
1:F:5:PHE:CZ	1:F:365:GLY:HA3	2.56	0.40
1:F:206:ILE:HG21	1:F:206:ILE:HD13	1.76	0.40
1:F:244:MET:C	1:F:246:ALA:N	2.78	0.40
1:F:354:ARG:HH11	1:F:354:ARG:HD2	1.68	0.40
1:F:1062:ARG:NH2	1:F:1088:GLU:OE2	2.54	0.40
1:F:1135:VAL:O	1:F:1138:LEU:N	2.54	0.40
1:F:1277:GLY:O	1:F:1278:ALA:C	2.60	0.40
1:F:1335:LYS:HA	1:F:1354:THR:O	2.21	0.40
2:G:119:THR:O	2:G:123:VAL:HG22	2.21	0.40
2:G:322:ARG:O	2:G:346:TRP:CD1	2.74	0.40
2:G:429:THR:HB	2:G:431:MET:HG3	2.02	0.40
2:H:162:ALA:HB3	2:H:237:LEU:CD1	2.49	0.40
2:H:322:ARG:CG	2:H:323:ASP:H	2.21	0.40
2:I:93:ILE:O	2:I:96:ARG:HG2	2.21	0.40
2:I:477:ALA:C	2:I:478:VAL:CG2	2.93	0.40
2:J:292:VAL:HG21	2:J:394:LEU:HD13	1.97	0.40
2:K:181:ARG:CG	2:K:182:MET:N	2.83	0.40
2:K:197:LYS:CB	2:K:273:LEU:HG	2.48	0.40
2:K:257:ASN:HD21	2:K:394:LEU:HA	1.85	0.40
2:K:317:LYS:CE	2:K:345:ILE:CG1	2.95	0.40
2:L:26:GLN:HG3	2:L:310:ARG:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:L:69:LEU:HA	2:L:72:THR:CG2	2.51	0.40
2:L:137:VAL:HG12	2:L:139:PRO:HD3	2.03	0.40
2:L:174:HIS:CD2	2:L:174:HIS:C	3.00	0.40
2:L:181:ARG:HB3	2:L:181:ARG:CZ	2.51	0.40
1:A:103:TYR:OH	1:B:1178:LEU:HD13	2.20	0.40
1:A:184:LEU:HD12	1:A:184:LEU:HA	1.91	0.40
1:A:284:MET:CE	1:A:294:VAL:HG13	2.50	0.40
1:A:320:CYS:O	1:A:322:SER:N	2.54	0.40
1:A:461:MET:CE	1:A:461:MET:HA	2.51	0.40
1:A:575:VAL:C	1:A:577:GLY:N	2.77	0.40
1:A:855:THR:O	1:A:855:THR:CG2	2.69	0.40
1:A:1055:VAL:O	1:A:1056:LEU:C	2.59	0.40
1:A:1153:LEU:HD23	1:A:1153:LEU:HA	1.85	0.40
1:A:1299:GLY:O	1:A:1300:LEU:C	2.64	0.40
1:A:1466:LEU:O	1:A:1468:VAL:N	2.53	0.40
1:B:56:LYS:CG	1:B:71:LEU:HD22	2.49	0.40
1:B:142:GLU:CD	1:B:142:GLU:N	2.76	0.40
1:B:297:MET:HE2	1:B:297:MET:HB3	1.67	0.40
1:B:450:ARG:C	1:B:452:GLN:N	2.79	0.40
1:B:730:LEU:C	1:B:748:GLY:H	2.29	0.40
1:B:937:LYS:N	1:B:938:PRO:HD3	2.35	0.40
1:B:965:LEU:HD23	1:B:965:LEU:HA	1.69	0.40
1:B:1190:VAL:HG12	1:B:1191:ASP:N	2.36	0.40
1:C:55:PHE:O	1:C:58:HIS:HB3	2.22	0.40
1:C:149:TYR:HE2	1:C:263:LEU:HD21	1.86	0.40
1:C:298:LEU:C	1:C:300:PRO:HD3	2.46	0.40
1:C:376:GLU:HG3	1:C:1310:THR:OG1	2.21	0.40
1:C:969:PRO:CD	1:C:970:PRO:CD	2.99	0.40
1:D:9:ILE:HG21	1:D:9:ILE:HD13	1.59	0.40
1:D:87:GLU:O	1:D:90:ARG:N	2.54	0.40
1:D:295:LYS:CG	1:D:390:MET:HE1	2.51	0.40
1:D:313:HIS:CD2	1:D:313:HIS:N	2.89	0.40
1:D:330:PRO:HA	1:D:350:LEU:HB2	2.03	0.40
1:D:815:GLU:O	1:D:816:GLN:C	2.59	0.40
1:D:831:LEU:HD13	1:D:1084:MET:HE1	2.03	0.40
1:D:969:PRO:HD2	1:D:970:PRO:CD	2.52	0.40
1:E:78:LEU:CD1	1:E:129:GLU:HG3	2.52	0.40
1:E:80:ARG:O	1:E:80:ARG:CG	2.69	0.40
1:E:347:ARG:CB	1:E:347:ARG:HH11	2.34	0.40
1:E:513:SER:CA	1:E:520:MET:HE2	2.51	0.40
1:E:705:LEU:HD22	1:E:705:LEU:HA	1.90	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:731:SER:HA	1:E:747:SER:HA	2.04	0.40
1:E:803:THR:O	1:E:803:THR:HG22	2.08	0.40
1:E:929:GLU:HA	1:E:997:THR:HB	2.01	0.40
1:E:969:PRO:CD	1:E:970:PRO:CD	2.99	0.40
1:E:976:SER:O	1:E:979:ASP:N	2.54	0.40
1:E:1374:VAL:HG12	1:E:1375:ILE:H	1.86	0.40
1:F:80:ARG:O	1:F:80:ARG:HG3	2.21	0.40
1:F:89:CYS:SG	1:F:164:ILE:HG21	2.62	0.40
1:F:313:HIS:CD2	1:F:313:HIS:N	2.89	0.40
1:F:554:GLU:O	1:F:555:PHE:C	2.61	0.40
1:F:660:GLY:HA2	1:F:721:GLY:N	2.33	0.40
1:F:1094:THR:O	1:F:1095:ALA:C	2.61	0.40
2:G:46:ARG:NH1	2:G:110:ILE:HD12	2.36	0.40
2:G:132:TRP:HA	2:G:202:ARG:HH11	1.82	0.40
2:G:190:ILE:HB	2:G:195:LEU:HD23	2.03	0.40
2:G:306:ARG:HD3	2:G:336:HIS:CB	2.45	0.40
2:G:319:LEU:HD22	2:G:320:TYR:N	2.36	0.40
2:H:28:PHE:HZ	2:H:285:LEU:HD21	1.83	0.40
2:H:181:ARG:HH11	2:H:181:ARG:CB	2.34	0.40
2:H:317:LYS:CE	2:H:345:ILE:CG1	2.95	0.40
2:H:405:ASP:C	2:H:407:PRO:HD2	2.46	0.40
2:H:417:VAL:CG1	2:H:418:THR:N	2.83	0.40
2:H:427:HIS:ND1	2:H:428:ARG:HG3	2.36	0.40
2:I:145:GLU:O	2:I:171:TYR:CE1	2.74	0.40
2:I:150:VAL:CG2	2:I:151:GLY:N	2.82	0.40
2:I:152:VAL:CG2	2:I:153:ILE:N	2.82	0.40
2:I:175:VAL:CG1	2:I:214:TYR:CD2	2.94	0.40
2:I:181:ARG:HE	2:I:187:VAL:CG1	2.34	0.40
2:I:292:VAL:HG21	2:I:394:LEU:HD13	1.97	0.40
2:I:295:LEU:HD21	2:I:319:LEU:HD13	1.99	0.40
2:I:351:GLU:OE1	2:I:353:PHE:HB3	2.22	0.40
2:J:46:ARG:NH1	2:J:110:ILE:HD12	2.36	0.40
2:J:119:THR:O	2:J:123:VAL:HG22	2.21	0.40
2:J:319:LEU:HD22	2:J:320:TYR:N	2.36	0.40
2:J:418:THR:N	2:J:424:LEU:CD2	2.83	0.40
2:K:46:ARG:NH1	2:K:110:ILE:HD12	2.36	0.40
2:K:137:VAL:O	2:K:139:PRO:HD3	2.21	0.40
2:K:145:GLU:O	2:K:171:TYR:CE1	2.74	0.40
2:L:71:LEU:HD12	2:L:80:ALA:CA	2.49	0.40
2:L:190:ILE:HB	2:L:195:LEU:HD23	2.03	0.40
2:L:288:ALA:HB1	2:L:394:LEU:HD12	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:347:ARG:HH11	1:A:347:ARG:CB	2.34	0.40
1:A:522:LEU:O	1:A:523:LYS:C	2.63	0.40
1:A:629:THR:C	1:A:631:LEU:N	2.80	0.40
1:A:728:ILE:HD12	1:A:1047:MET:HE1	2.00	0.40
1:A:813:TYR:CG	1:A:814:SER:N	2.90	0.40
1:A:1105:VAL:HG23	2:J:54:PHE:CE1	2.56	0.40
1:B:98:LEU:HD23	1:B:98:LEU:HA	1.62	0.40
1:B:116:ILE:HG21	1:B:190:THR:HG21	2.03	0.40
1:B:263:LEU:N	1:B:263:LEU:CD1	2.73	0.40
1:B:325:GLU:HA	1:B:326:PRO:HD3	1.92	0.40
1:B:551:THR:H	1:B:554:GLU:CD	2.30	0.40
1:B:787:ARG:HH12	1:B:821:PRO:CB	2.34	0.40
1:B:898:LYS:H	1:B:898:LYS:HD3	1.86	0.40
1:B:1143:ALA:O	1:B:1147:ARG:HG3	2.20	0.40
1:C:318:GLN:O	1:C:322:SER:OG	2.39	0.40
1:C:347:ARG:CB	1:C:347:ARG:HH11	2.34	0.40
1:C:353:MET:HE2	1:C:366:GLY:N	2.36	0.40
1:C:390:MET:HG3	1:C:406:LEU:HD23	2.02	0.40
1:C:442:MET:HB2	1:C:673:GLU:OE2	2.22	0.40
1:C:492:TYR:CD2	1:C:761:GLN:HG2	2.56	0.40
1:C:503:PHE:CE2	1:C:938:PRO:HB3	2.56	0.40
1:C:513:SER:CA	1:C:520:MET:HE2	2.51	0.40
1:C:559:ARG:HD2	1:C:605:ILE:HD13	2.03	0.40
1:C:695:ASN:O	1:C:698:LYS:N	2.53	0.40
1:C:842:GLU:HG2	1:C:1156:ARG:HD3	2.04	0.40
1:C:843:VAL:CG1	1:C:844:GLU:H	2.30	0.40
1:C:1211:LEU:HG	1:C:1215:ILE:HD11	2.04	0.40
1:C:1282:GLN:CB	1:C:1302:GLY:O	2.70	0.40
1:C:1285:LYS:HG3	1:C:1304:THR:HB	2.04	0.40
1:C:1395:TYR:HD2	1:C:1454:PHE:CE1	2.39	0.40
1:C:1421:GLU:O	1:C:1421:GLU:HG2	2.21	0.40
1:D:68:ASP:OD1	1:D:68:ASP:N	2.54	0.40
1:D:240:ASN:HB3	1:D:327:TRP:CH2	2.56	0.40
1:D:316:LEU:O	1:D:317:ILE:C	2.62	0.40
1:D:406:LEU:O	1:D:409:HIS:HB3	2.21	0.40
1:D:551:THR:OG1	1:D:554:GLU:CG	2.65	0.40
1:D:898:LYS:H	1:D:898:LYS:HD3	1.86	0.40
1:D:1146:VAL:C	1:D:1148:GLU:N	2.77	0.40
1:E:233:GLU:O	1:E:329:GLY:HA3	2.21	0.40
1:E:415:PRO:O	1:E:416:TRP:C	2.61	0.40
1:E:587:ARG:O	1:E:590:ARG:CB	2.70	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1108:CYS:SG	6:E:2476:F3S:S2	3.20	0.40
1:F:142:GLU:CD	1:F:142:GLU:N	2.76	0.40
1:F:152:ARG:HH11	1:F:152:ARG:HD3	1.71	0.40
1:F:240:ASN:HB3	1:F:327:TRP:CZ2	2.56	0.40
1:F:609:GLU:C	1:F:611:MET:N	2.77	0.40
1:F:652:THR:O	1:F:653:HIS:C	2.63	0.40
1:F:935:GLY:HA3	1:F:1025:GLY:O	2.22	0.40
1:F:1164:ARG:CB	1:F:1167:LEU:HD12	2.51	0.40
2:G:63:ASN:OD1	2:G:68:TRP:CH2	2.74	0.40
2:G:165:GLU:OE2	2:G:458:ARG:HD2	2.22	0.40
2:G:288:ALA:HB1	2:G:394:LEU:HD12	2.04	0.40
2:G:291:HIS:HD2	2:G:392:ALA:HB2	1.84	0.40
2:G:405:ASP:C	2:G:407:PRO:HD2	2.46	0.40
2:H:119:THR:OG1	2:H:122:SER:HB3	2.21	0.40
2:H:319:LEU:HD22	2:H:320:TYR:N	2.36	0.40
2:I:447:ALA:CB	2:I:452:TRP:CE3	2.92	0.40
2:J:165:GLU:OE2	2:J:458:ARG:HD2	2.22	0.40
2:J:181:ARG:HE	2:J:187:VAL:CG1	2.34	0.40
2:J:342:VAL:CG1	2:J:343:GLU:N	2.83	0.40
2:J:351:GLU:OE1	2:J:353:PHE:HB3	2.22	0.40
2:K:181:ARG:HE	2:K:187:VAL:CG1	2.34	0.40
2:K:306:ARG:HG2	2:K:340:GLU:HG3	2.04	0.40
2:K:387:GLU:CG	2:K:388:PHE:N	2.82	0.40
2:L:137:VAL:C	2:L:139:PRO:HD3	2.46	0.40
2:L:137:VAL:O	2:L:139:PRO:HD3	2.21	0.40
2:L:145:GLU:O	2:L:171:TYR:CE1	2.74	0.40
2:L:291:HIS:HD2	2:L:392:ALA:HB2	1.84	0.40
2:L:417:VAL:HG13	2:L:422:THR:N	2.37	0.40
1:A:250:ARG:HH21	1:A:639:PHE:HE1	1.63	0.40
1:A:492:TYR:CD2	1:A:761:GLN:HG2	2.56	0.40
1:A:606:LEU:O	1:A:607:THR:HG22	2.21	0.40
1:A:677:GLU:O	1:A:678:ARG:C	2.64	0.40
1:A:842:GLU:HG2	1:A:1156:ARG:HD3	2.04	0.40
1:A:864:SER:HB3	1:A:1116:GLY:O	2.21	0.40
1:A:1249:MET:HE3	1:A:1249:MET:HB3	1.78	0.40
1:A:1321:THR:HA	1:A:1341:GLN:HB2	2.04	0.40
1:A:1400:SER:C	1:A:1402:PRO:HD2	2.46	0.40
1:A:1413:GLN:OE1	1:A:1470:VAL:HG13	2.22	0.40
1:B:148:LEU:HD23	1:B:148:LEU:HA	1.91	0.40
1:B:621:ILE:HG12	1:B:657:VAL:HG12	2.04	0.40
1:B:1047:MET:HB2	1:B:1048:GLY:H	1.77	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:1062:ARG:NH2	1:B:1088:GLU:OE2	2.54	0.40
1:B:1116:GLY:HA3	1:B:1128:PHE:HB2	2.04	0.40
1:C:144:PHE:HD1	1:C:144:PHE:HA	1.68	0.40
1:C:260:MET:O	1:C:261:GLN:C	2.61	0.40
1:C:575:VAL:C	1:C:577:GLY:N	2.77	0.40
1:C:1105:VAL:HG23	2:K:54:PHE:CE1	2.56	0.40
1:C:1184:ASN:O	1:C:1185:PRO:C	2.65	0.40
1:C:1252:ARG:HH11	1:C:1252:ARG:HD3	1.66	0.40
1:D:5:PHE:CZ	1:D:365:GLY:HA3	2.55	0.40
1:D:325:GLU:HA	1:D:326:PRO:HD3	1.92	0.40
1:D:654:TYR:O	1:D:655:PHE:C	2.61	0.40
1:D:829:LEU:CD1	1:D:1168:LEU:HD13	2.46	0.40
1:D:1335:LYS:HA	1:D:1354:THR:O	2.21	0.40
1:E:198:GLU:H	1:E:198:GLU:HG3	1.72	0.40
1:E:237:VAL:O	1:E:238:LYS:C	2.61	0.40
1:E:260:MET:O	1:E:261:GLN:C	2.60	0.40
1:E:320:CYS:C	1:E:322:SER:N	2.79	0.40
1:E:443:ASP:OD2	1:E:445:ALA:HB3	2.21	0.40
1:E:447:LEU:CD1	1:E:670:LEU:HD21	2.43	0.40
1:E:492:TYR:CD2	1:E:761:GLN:HG2	2.57	0.40
1:E:836:ALA:HB1	1:E:837:PRO:CD	2.52	0.40
1:E:864:SER:HG	1:E:867:ALA:H	1.68	0.40
1:E:1026:ASN:ND2	1:E:1026:ASN:C	2.77	0.40
1:E:1458:VAL:CG1	1:E:1459:PRO:HD2	2.47	0.40
1:F:387:PRO:HD3	1:F:1344:GLU:CD	2.42	0.40
1:F:412:THR:O	1:F:412:THR:CG2	2.68	0.40
1:F:551:THR:O	1:F:552:THR:C	2.64	0.40
1:F:588:ARG:HH11	1:F:588:ARG:HD3	1.68	0.40
1:F:621:ILE:HG12	1:F:657:VAL:HG12	2.03	0.40
1:F:739:PHE:HB3	1:F:740:PRO:HD2	2.03	0.40
1:F:1099:ALA:C	1:F:1101:GLY:N	2.78	0.40
1:F:1161:VAL:O	1:F:1161:VAL:HG12	2.21	0.40
1:F:1354:THR:HA	1:F:1372:THR:O	2.21	0.40
2:G:218:PHE:CD2	2:G:223:ASP:OD2	2.74	0.40
2:G:309:ILE:CD1	2:G:340:GLU:CD	2.95	0.40
2:G:322:ARG:O	2:G:346:TRP:HD1	2.05	0.40
2:G:450:VAL:HG13	2:G:451:VAL:H	1.87	0.40
2:H:181:ARG:HB3	2:H:181:ARG:HH11	1.85	0.40
2:H:277:VAL:CG1	2:H:278:GLU:N	2.81	0.40
2:H:292:VAL:HG21	2:H:394:LEU:HD13	1.97	0.40
2:I:110:ILE:HD11	2:I:118:VAL:HG13	2.00	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:137:VAL:C	2:I:139:PRO:HD3	2.46	0.40
2:I:165:GLU:OE2	2:I:458:ARG:HD2	2.22	0.40
2:J:63:ASN:OD1	2:J:68:TRP:CH2	2.74	0.40
2:J:119:THR:OG1	2:J:122:SER:HB3	2.21	0.40
2:J:145:GLU:O	2:J:171:TYR:CE1	2.74	0.40
2:J:306:ARG:HG2	2:J:340:GLU:HG3	2.04	0.40
2:J:432:THR:CG2	2:J:437:VAL:HG13	2.50	0.40
2:K:181:ARG:HH11	2:K:181:ARG:CB	2.34	0.40
2:L:93:ILE:O	2:L:96:ARG:HG2	2.21	0.40
2:L:319:LEU:HD22	2:L:320:TYR:N	2.36	0.40
2:L:405:ASP:C	2:L:407:PRO:HD2	2.46	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	1470/1472 (100%)	1174 (80%)	231 (16%)	65 (4%)	2	17
1	B	1470/1472 (100%)	1191 (81%)	215 (15%)	64 (4%)	2	17
1	C	1470/1472 (100%)	1175 (80%)	230 (16%)	65 (4%)	2	17
1	D	1470/1472 (100%)	1191 (81%)	215 (15%)	64 (4%)	2	17
1	E	1470/1472 (100%)	1174 (80%)	231 (16%)	65 (4%)	2	17
1	F	1470/1472 (100%)	1192 (81%)	214 (15%)	64 (4%)	2	17
2	G	454/456 (100%)	419 (92%)	25 (6%)	10 (2%)	5	29
2	H	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	5	29
2	I	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	5	29
2	J	454/456 (100%)	419 (92%)	25 (6%)	10 (2%)	5	29
2	K	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	5	29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	L	454/456 (100%)	420 (92%)	24 (5%)	10 (2%)	5 29
All	All	11544/11568 (100%)	9615 (83%)	1482 (13%)	447 (4%)	4 19

All (447) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	25	LEU
1	A	444	LYS
1	A	451	GLN
1	A	705	LEU
1	A	712	GLY
1	A	950	THR
1	A	1062	ARG
1	A	1227	GLU
1	A	1339	ALA
1	A	1375	ILE
1	A	1388	THR
1	A	1394	VAL
1	A	1408	GLU
1	A	1461	GLU
1	A	1467	GLU
1	B	249	THR
1	B	255	ALA
1	B	418	LYS
1	B	561	TYR
1	B	705	LEU
1	B	740	PRO
1	B	950	THR
1	B	1164	ARG
1	B	1467	GLU
1	C	25	LEU
1	C	444	LYS
1	C	451	GLN
1	C	705	LEU
1	C	712	GLY
1	C	950	THR
1	C	1062	ARG
1	C	1227	GLU
1	C	1339	ALA
1	C	1375	ILE
1	C	1388	THR
1	C	1394	VAL

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Mol	Chain	Res	Type
1	C	1408	GLU
1	C	1461	GLU
1	C	1467	GLU
1	D	249	THR
1	D	255	ALA
1	D	418	LYS
1	D	561	TYR
1	D	705	LEU
1	D	740	PRO
1	D	950	THR
1	D	1164	ARG
1	D	1467	GLU
1	E	25	LEU
1	E	444	LYS
1	E	451	GLN
1	E	705	LEU
1	E	712	GLY
1	E	950	THR
1	E	1062	ARG
1	E	1227	GLU
1	E	1339	ALA
1	E	1375	ILE
1	E	1388	THR
1	E	1394	VAL
1	E	1408	GLU
1	E	1461	GLU
1	E	1467	GLU
1	F	249	THR
1	F	255	ALA
1	F	418	LYS
1	F	561	TYR
1	F	705	LEU
1	F	740	PRO
1	F	950	THR
1	F	1164	ARG
1	F	1467	GLU
2	G	27	ASP
2	G	232	LYS
2	G	257	ASN
2	G	478	VAL
2	H	27	ASP
2	H	232	LYS

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Mol	Chain	Res	Type
2	H	257	ASN
2	H	478	VAL
2	I	27	ASP
2	I	232	LYS
2	I	257	ASN
2	I	478	VAL
2	J	27	ASP
2	J	232	LYS
2	J	257	ASN
2	J	478	VAL
2	K	27	ASP
2	K	232	LYS
2	K	257	ASN
2	K	478	VAL
2	L	27	ASP
2	L	232	LYS
2	L	257	ASN
2	L	478	VAL
1	A	53	LYS
1	A	249	THR
1	A	370	GLY
1	A	561	TYR
1	A	599	GLY
1	A	663	ALA
1	A	709	SER
1	A	745	ARG
1	A	939	GLY
1	A	1042	GLY
1	A	1160	GLU
1	A	1164	ARG
1	A	1317	THR
1	A	1376	LEU
1	A	1439	PHE
1	A	1454	PHE
1	A	1460	LYS
1	B	25	LEU
1	B	421	GLN
1	B	444	LYS
1	B	451	GLN
1	B	562	MET
1	B	577	GLY
1	B	610	ALA

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Mol	Chain	Res	Type
1	B	747	SER
1	B	764	THR
1	B	868	HIS
1	B	884	SER
1	B	886	GLU
1	B	1160	GLU
1	B	1381	ASP
1	B	1408	GLU
1	B	1421	GLU
1	B	1432	VAL
1	B	1433	THR
1	B	1452	THR
1	B	1461	GLU
1	C	53	LYS
1	C	249	THR
1	C	370	GLY
1	C	561	TYR
1	C	599	GLY
1	C	663	ALA
1	C	709	SER
1	C	745	ARG
1	C	939	GLY
1	C	1042	GLY
1	C	1160	GLU
1	C	1164	ARG
1	C	1317	THR
1	C	1376	LEU
1	C	1439	PHE
1	C	1454	PHE
1	C	1460	LYS
1	D	25	LEU
1	D	421	GLN
1	D	444	LYS
1	D	451	GLN
1	D	562	MET
1	D	577	GLY
1	D	610	ALA
1	D	747	SER
1	D	764	THR
1	D	868	HIS
1	D	884	SER
1	D	886	GLU

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Mol	Chain	Res	Type
1	D	1160	GLU
1	D	1381	ASP
1	D	1408	GLU
1	D	1421	GLU
1	D	1432	VAL
1	D	1433	THR
1	D	1452	THR
1	D	1461	GLU
1	E	53	LYS
1	E	249	THR
1	E	370	GLY
1	E	561	TYR
1	E	599	GLY
1	E	663	ALA
1	E	709	SER
1	E	745	ARG
1	E	939	GLY
1	E	1042	GLY
1	E	1160	GLU
1	E	1164	ARG
1	E	1317	THR
1	E	1376	LEU
1	E	1439	PHE
1	E	1454	PHE
1	E	1460	LYS
1	F	25	LEU
1	F	421	GLN
1	F	444	LYS
1	F	451	GLN
1	F	562	MET
1	F	577	GLY
1	F	610	ALA
1	F	747	SER
1	F	764	THR
1	F	868	HIS
1	F	884	SER
1	F	886	GLU
1	F	1160	GLU
1	F	1381	ASP
1	F	1408	GLU
1	F	1421	GLU
1	F	1432	VAL

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Mol	Chain	Res	Type
1	F	1433	THR
1	F	1452	THR
1	F	1461	GLU
2	G	284	SER
2	H	284	SER
2	I	284	SER
2	J	284	SER
2	K	284	SER
2	L	284	SER
1	A	24	ALA
1	A	54	PHE
1	A	245	LYS
1	A	377	THR
1	A	432	THR
1	A	433	ALA
1	A	629	THR
1	A	740	PRO
1	A	974	ILE
1	A	1361	GLY
1	A	1381	ASP
1	A	1407	ASP
1	A	1438	ARG
1	B	663	ALA
1	B	721	GLY
1	B	745	ARG
1	B	869	GLY
1	B	1062	ARG
1	B	1071	GLY
1	B	1114	PRO
1	B	1142	LEU
1	B	1172	SER
1	B	1339	ALA
1	B	1438	ARG
1	B	1439	PHE
1	C	24	ALA
1	C	54	PHE
1	C	245	LYS
1	C	377	THR
1	C	432	THR
1	C	433	ALA
1	C	629	THR
1	C	740	PRO

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Mol	Chain	Res	Type
1	C	974	ILE
1	C	1361	GLY
1	C	1381	ASP
1	C	1407	ASP
1	C	1438	ARG
1	D	663	ALA
1	D	721	GLY
1	D	745	ARG
1	D	869	GLY
1	D	1062	ARG
1	D	1071	GLY
1	D	1114	PRO
1	D	1142	LEU
1	D	1172	SER
1	D	1339	ALA
1	D	1438	ARG
1	D	1439	PHE
1	E	24	ALA
1	E	54	PHE
1	E	245	LYS
1	E	377	THR
1	E	432	THR
1	E	433	ALA
1	E	629	THR
1	E	740	PRO
1	E	974	ILE
1	E	1361	GLY
1	E	1381	ASP
1	E	1407	ASP
1	E	1438	ARG
1	F	663	ALA
1	F	721	GLY
1	F	745	ARG
1	F	869	GLY
1	F	1062	ARG
1	F	1071	GLY
1	F	1114	PRO
1	F	1142	LEU
1	F	1172	SER
1	F	1339	ALA
1	F	1438	ARG
1	F	1439	PHE

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Mol	Chain	Res	Type
2	G	290	LYS
2	H	290	LYS
2	I	290	LYS
2	J	290	LYS
2	K	290	LYS
2	L	290	LYS
1	A	208	HIS
1	A	421	GLN
1	A	450	ARG
1	A	492	TYR
1	A	553	ALA
1	A	844	GLU
1	A	915	PHE
1	B	326	PRO
1	B	475	ALA
1	B	496	HIS
1	B	856	PRO
1	B	974	ILE
1	B	1376	LEU
1	B	1407	ASP
1	B	1424	LEU
1	C	208	HIS
1	C	421	GLN
1	C	450	ARG
1	C	492	TYR
1	C	553	ALA
1	C	844	GLU
1	C	915	PHE
1	D	326	PRO
1	D	475	ALA
1	D	496	HIS
1	D	856	PRO
1	D	974	ILE
1	D	1376	LEU
1	D	1407	ASP
1	D	1424	LEU
1	E	208	HIS
1	E	421	GLN
1	E	450	ARG
1	E	492	TYR
1	E	553	ALA
1	E	844	GLU

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Mol	Chain	Res	Type
1	E	915	PHE
1	F	326	PRO
1	F	475	ALA
1	F	496	HIS
1	F	856	PRO
1	F	974	ILE
1	F	1376	LEU
1	F	1407	ASP
1	F	1424	LEU
2	G	348	ALA
2	G	446	GLY
2	H	348	ALA
2	H	446	GLY
2	I	348	ALA
2	I	446	GLY
2	J	348	ALA
2	J	446	GLY
2	K	348	ALA
2	K	446	GLY
2	L	348	ALA
2	L	446	GLY
1	A	69	ASN
1	A	521	SER
1	A	654	TYR
1	A	962	GLY
1	A	1395	TYR
1	B	254	PRO
1	B	388	GLY
1	B	450	ARG
1	B	559	ARG
1	C	69	ASN
1	C	521	SER
1	C	654	TYR
1	C	962	GLY
1	C	1395	TYR
1	D	254	PRO
1	D	388	GLY
1	D	450	ARG
1	D	559	ARG
1	E	69	ASN
1	E	521	SER
1	E	654	TYR

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Mol	Chain	Res	Type
1	E	962	GLY
1	E	1395	TYR
1	F	254	PRO
1	F	388	GLY
1	F	450	ARG
1	F	559	ARG
1	A	217	PRO
1	B	290	THR
1	B	619	PRO
1	B	780	ARG
1	B	1078	ASP
1	C	217	PRO
1	D	290	THR
1	D	619	PRO
1	D	780	ARG
1	D	1078	ASP
1	E	217	PRO
1	F	290	THR
1	F	619	PRO
1	F	780	ARG
1	F	1078	ASP
2	G	362	VAL
2	H	362	VAL
2	I	362	VAL
2	J	362	VAL
2	K	362	VAL
2	L	362	VAL
1	A	707	ILE
1	A	1185	PRO
1	B	61	VAL
1	C	707	ILE
1	C	1185	PRO
1	D	61	VAL
1	E	707	ILE
1	E	1185	PRO
1	F	61	VAL
2	G	250	ALA
2	H	250	ALA
2	I	250	ALA
2	J	250	ALA
2	K	250	ALA
2	L	250	ALA

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Mol	Chain	Res	Type
1	A	619	PRO
1	A	1071	GLY
1	A	1261	PRO
1	A	1389	GLY
1	B	116	ILE
1	B	455	GLY
1	C	619	PRO
1	C	1071	GLY
1	C	1261	PRO
1	C	1389	GLY
1	D	116	ILE
1	D	455	GLY
1	E	619	PRO
1	E	1071	GLY
1	E	1261	PRO
1	E	1389	GLY
1	F	116	ILE
1	F	455	GLY
1	A	372	VAL
1	B	1394	VAL
1	C	372	VAL
1	D	1394	VAL
1	E	372	VAL
1	F	1394	VAL
1	B	774	PRO
1	B	953	ILE
1	D	774	PRO
1	D	953	ILE
1	F	774	PRO
1	F	953	ILE
1	B	657	VAL
1	D	657	VAL
1	F	657	VAL

5.3.2 Protein sidechains

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	1201/1201 (100%)	948 (79%)	253 (21%)	1 6
1	B	1201/1201 (100%)	953 (79%)	248 (21%)	1 6
1	C	1201/1201 (100%)	949 (79%)	252 (21%)	1 6
1	D	1201/1201 (100%)	953 (79%)	248 (21%)	1 6
1	E	1201/1201 (100%)	949 (79%)	252 (21%)	1 6
1	F	1201/1201 (100%)	953 (79%)	248 (21%)	1 6
2	G	358/358 (100%)	248 (69%)	110 (31%)	0 2
2	H	358/358 (100%)	248 (69%)	110 (31%)	0 2
2	I	358/358 (100%)	248 (69%)	110 (31%)	0 2
2	J	358/358 (100%)	248 (69%)	110 (31%)	0 2
2	K	358/358 (100%)	248 (69%)	110 (31%)	0 2
2	L	358/358 (100%)	248 (69%)	110 (31%)	0 2
All	All	9354/9354 (100%)	7193 (77%)	2161 (23%)	2 5

All (2161) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	1	CYS
1	A	3	VAL
1	A	34	VAL
1	A	35	ASP
1	A	37	ASP
1	A	39	LYS
1	A	40	THR
1	A	47	HIS
1	A	52	GLN
1	A	59	VAL
1	A	62	ILE
1	A	68	ASP
1	A	69	ASN
1	A	76	VAL
1	A	78	LEU
1	A	80	ARG
1	A	81	ILE
1	A	109	GLN
1	A	112	ILE
1	A	113	ASN
1	A	117	ILE
1	A	120	LYS

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Mol	Chain	Res	Type
1	A	131	ILE
1	A	142	GLU
1	A	143	GLN
1	A	146	LEU
1	A	156	GLU
1	A	162	GLU
1	A	177	ILE
1	A	184	LEU
1	A	186	GLU
1	A	188	LEU
1	A	189	THR
1	A	196	LEU
1	A	198	GLU
1	A	207	TYR
1	A	209	GLN
1	A	210	ARG
1	A	215	THR
1	A	218	THR
1	A	227	MET
1	A	228	LEU
1	A	235	ASN
1	A	242	ASN
1	A	244	MET
1	A	249	THR
1	A	252	GLU
1	A	254	PRO
1	A	258	THR
1	A	261	GLN
1	A	263	LEU
1	A	267	ILE
1	A	269	VAL
1	A	279	THR
1	A	286	ARG
1	A	299	VAL
1	A	312	ASN
1	A	316	LEU
1	A	322	SER
1	A	335	MET
1	A	336	THR
1	A	342	VAL
1	A	347	ARG
1	A	351	ARG

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Mol	Chain	Res	Type
1	A	353	MET
1	A	355	TYR
1	A	357	ILE
1	A	362	LEU
1	A	367	SER
1	A	368	GLU
1	A	372	VAL
1	A	377	THR
1	A	380	ILE
1	A	390	MET
1	A	397	SER
1	A	405	GLU
1	A	413	LEU
1	A	417	ASP
1	A	420	VAL
1	A	429	LEU
1	A	430	VAL
1	A	439	PRO
1	A	440	SER
1	A	441	ASP
1	A	447	LEU
1	A	449	ARG
1	A	458	MET
1	A	461	MET
1	A	463	LEU
1	A	465	LEU
1	A	476	ILE
1	A	479	MET
1	A	483	SER
1	A	487	VAL
1	A	495	LEU
1	A	505	GLN
1	A	509	PRO
1	A	519	VAL
1	A	520	MET
1	A	525	ARG
1	A	526	LEU
1	A	529	LEU
1	A	534	ASP
1	A	537	GLU
1	A	544	GLN
1	A	559	ARG

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Mol	Chain	Res	Type
1	A	564	ASP
1	A	569	ILE
1	A	572	THR
1	A	584	ASP
1	A	606	LEU
1	A	607	THR
1	A	621	ILE
1	A	631	LEU
1	A	634	SER
1	A	636	LEU
1	A	637	ARG
1	A	638	THR
1	A	640	THR
1	A	642	LEU
1	A	644	VAL
1	A	650	LEU
1	A	658	LEU
1	A	665	THR
1	A	670	LEU
1	A	673	GLU
1	A	678	ARG
1	A	704	LEU
1	A	705	LEU
1	A	715	VAL
1	A	724	ASN
1	A	731	SER
1	A	734	LEU
1	A	746	ILE
1	A	764	THR
1	A	768	GLU
1	A	786	ASP
1	A	787	ARG
1	A	794	VAL
1	A	795	ILE
1	A	803	THR
1	A	806	SER
1	A	812	LYS
1	A	820	ARG
1	A	824	GLN
1	A	826	ARG
1	A	831	LEU
1	A	833	SER

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Mol	Chain	Res	Type
1	A	842	GLU
1	A	850	ARG
1	A	851	LYS
1	A	855	THR
1	A	863	LEU
1	A	875	MET
1	A	884	SER
1	A	889	GLU
1	A	912	SER
1	A	934	GLN
1	A	937	LYS
1	A	950	THR
1	A	952	MET
1	A	953	ILE
1	A	958	HIS
1	A	960	THR
1	A	966	ILE
1	A	970	PRO
1	A	978	GLU
1	A	982	GLN
1	A	983	LEU
1	A	1003	ARG
1	A	1008	THR
1	A	1015	LYS
1	A	1036	THR
1	A	1043	LEU
1	A	1057	THR
1	A	1058	LEU
1	A	1059	ASN
1	A	1062	ARG
1	A	1065	VAL
1	A	1066	ARG
1	A	1075	THR
1	A	1077	ARG
1	A	1085	LEU
1	A	1104	MET
1	A	1109	HIS
1	A	1119	VAL
1	A	1121	ASP
1	A	1122	ASP
1	A	1124	LEU
1	A	1131	THR

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Mol	Chain	Res	Type
1	A	1142	LEU
1	A	1145	GLU
1	A	1157	SER
1	A	1161	VAL
1	A	1164	ARG
1	A	1170	GLN
1	A	1171	VAL
1	A	1173	ARG
1	A	1190	VAL
1	A	1206	GLU
1	A	1207	VAL
1	A	1211	LEU
1	A	1220	ARG
1	A	1222	LEU
1	A	1225	GLU
1	A	1229	MET
1	A	1246	LEU
1	A	1253	LYS
1	A	1261	PRO
1	A	1264	ILE
1	A	1267	ARG
1	A	1269	ARG
1	A	1271	THR
1	A	1274	GLN
1	A	1289	MET
1	A	1291	ASP
1	A	1301	SER
1	A	1304	THR
1	A	1308	ARG
1	A	1310	THR
1	A	1314	PRO
1	A	1317	THR
1	A	1318	ASN
1	A	1349	ARG
1	A	1355	VAL
1	A	1357	VAL
1	A	1360	CYS
1	A	1369	THR
1	A	1374	VAL
1	A	1379	VAL
1	A	1381	ASP
1	A	1382	ASN

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Mol	Chain	Res	Type
1	A	1388	THR
1	A	1394	VAL
1	A	1398	ASP
1	A	1400	SER
1	A	1401	LEU
1	A	1402	PRO
1	A	1408	GLU
1	A	1410	VAL
1	A	1419	HIS
1	A	1421	GLU
1	A	1422	SER
1	A	1424	LEU
1	A	1425	LYS
1	A	1428	ILE
1	A	1449	ARG
1	A	1452	THR
1	A	1461	GLU
1	A	1466	LEU
1	A	1470	VAL
1	A	1471	HIS
1	A	1472	LEU
1	B	3	VAL
1	B	34	VAL
1	B	35	ASP
1	B	37	ASP
1	B	40	THR
1	B	47	HIS
1	B	59	VAL
1	B	62	ILE
1	B	68	ASP
1	B	76	VAL
1	B	80	ARG
1	B	81	ILE
1	B	92	ILE
1	B	109	GLN
1	B	113	ASN
1	B	117	ILE
1	B	120	LYS
1	B	143	GLN
1	B	146	LEU
1	B	156	GLU
1	B	173	SER

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Mol	Chain	Res	Type
1	B	184	LEU
1	B	186	GLU
1	B	188	LEU
1	B	189	THR
1	B	198	GLU
1	B	209	GLN
1	B	210	ARG
1	B	215	THR
1	B	218	THR
1	B	227	MET
1	B	235	ASN
1	B	241	VAL
1	B	242	ASN
1	B	247	HIS
1	B	249	THR
1	B	254	PRO
1	B	258	THR
1	B	260	MET
1	B	261	GLN
1	B	263	LEU
1	B	269	VAL
1	B	274	SER
1	B	279	THR
1	B	286	ARG
1	B	290	THR
1	B	297	MET
1	B	299	VAL
1	B	308	THR
1	B	312	ASN
1	B	316	LEU
1	B	317	ILE
1	B	322	SER
1	B	325	GLU
1	B	347	ARG
1	B	351	ARG
1	B	353	MET
1	B	362	LEU
1	B	367	SER
1	B	368	GLU
1	B	377	THR
1	B	380	ILE
1	B	385	LEU

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Mol	Chain	Res	Type
1	B	389	GLU
1	B	390	MET
1	B	397	SER
1	B	402	ARG
1	B	405	GLU
1	B	412	THR
1	B	413	LEU
1	B	417	ASP
1	B	420	VAL
1	B	422	ASN
1	B	423	THR
1	B	429	LEU
1	B	430	VAL
1	B	439	PRO
1	B	447	LEU
1	B	449	ARG
1	B	461	MET
1	B	462	GLU
1	B	468	MET
1	B	481	ASP
1	B	483	SER
1	B	487	VAL
1	B	491	LYS
1	B	495	LEU
1	B	500	ARG
1	B	501	GLN
1	B	519	VAL
1	B	520	MET
1	B	522	LEU
1	B	524	THR
1	B	526	LEU
1	B	534	ASP
1	B	537	GLU
1	B	538	THR
1	B	542	LEU
1	B	555	PHE
1	B	559	ARG
1	B	564	ASP
1	B	569	ILE
1	B	570	ASP
1	B	572	THR
1	B	584	ASP

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Mol	Chain	Res	Type
1	B	592	GLU
1	B	593	THR
1	B	606	LEU
1	B	607	THR
1	B	608	ASP
1	B	621	ILE
1	B	622	LEU
1	B	631	LEU
1	B	636	LEU
1	B	637	ARG
1	B	640	THR
1	B	642	LEU
1	B	658	LEU
1	B	659	ILE
1	B	665	THR
1	B	670	LEU
1	B	673	GLU
1	B	681	ARG
1	B	690	GLU
1	B	704	LEU
1	B	714	SER
1	B	717	SER
1	B	731	SER
1	B	746	ILE
1	B	751	LEU
1	B	764	THR
1	B	770	VAL
1	B	771	VAL
1	B	786	ASP
1	B	787	ARG
1	B	794	VAL
1	B	805	ASP
1	B	817	VAL
1	B	820	ARG
1	B	823	MET
1	B	824	GLN
1	B	826	ARG
1	B	833	SER
1	B	841	ASP
1	B	849	ILE
1	B	850	ARG
1	B	855	THR

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Mol	Chain	Res	Type
1	B	859	SER
1	B	860	MET
1	B	884	SER
1	B	889	GLU
1	B	898	LYS
1	B	912	SER
1	B	918	THR
1	B	934	GLN
1	B	937	LYS
1	B	950	THR
1	B	952	MET
1	B	958	HIS
1	B	960	THR
1	B	966	ILE
1	B	978	GLU
1	B	983	LEU
1	B	1001	VAL
1	B	1002	SER
1	B	1003	ARG
1	B	1008	THR
1	B	1015	LYS
1	B	1030	THR
1	B	1043	LEU
1	B	1050	SER
1	B	1057	THR
1	B	1058	LEU
1	B	1059	ASN
1	B	1062	ARG
1	B	1064	ARG
1	B	1065	VAL
1	B	1077	ARG
1	B	1079	ILE
1	B	1090	PHE
1	B	1098	ILE
1	B	1104	MET
1	B	1105	VAL
1	B	1109	HIS
1	B	1114	PRO
1	B	1119	VAL
1	B	1121	ASP
1	B	1122	ASP
1	B	1124	LEU

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Mol	Chain	Res	Type
1	B	1129	VAL
1	B	1131	THR
1	B	1142	LEU
1	B	1145	GLU
1	B	1146	VAL
1	B	1147	ARG
1	B	1157	SER
1	B	1161	VAL
1	B	1167	LEU
1	B	1169	HIS
1	B	1170	GLN
1	B	1171	VAL
1	B	1186	ARG
1	B	1190	VAL
1	B	1195	ASN
1	B	1201	LEU
1	B	1207	VAL
1	B	1229	MET
1	B	1237	ASN
1	B	1238	THR
1	B	1245	ARG
1	B	1246	LEU
1	B	1247	SER
1	B	1253	LYS
1	B	1261	PRO
1	B	1264	ILE
1	B	1265	THR
1	B	1269	ARG
1	B	1271	THR
1	B	1289	MET
1	B	1298	LYS
1	B	1308	ARG
1	B	1317	THR
1	B	1318	ASN
1	B	1344	GLU
1	B	1349	ARG
1	B	1355	VAL
1	B	1357	VAL
1	B	1360	CYS
1	B	1369	THR
1	B	1379	VAL
1	B	1381	ASP

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Mol	Chain	Res	Type
1	B	1388	THR
1	B	1397	LEU
1	B	1398	ASP
1	B	1400	SER
1	B	1401	LEU
1	B	1408	GLU
1	B	1409	SER
1	B	1410	VAL
1	B	1421	GLU
1	B	1422	SER
1	B	1435	THR
1	B	1449	ARG
1	B	1452	THR
1	B	1465	ARG
1	B	1466	LEU
1	B	1470	VAL
1	B	1471	HIS
1	C	1	CYS
1	C	3	VAL
1	C	34	VAL
1	C	35	ASP
1	C	37	ASP
1	C	39	LYS
1	C	40	THR
1	C	47	HIS
1	C	52	GLN
1	C	59	VAL
1	C	62	ILE
1	C	68	ASP
1	C	69	ASN
1	C	76	VAL
1	C	78	LEU
1	C	80	ARG
1	C	81	ILE
1	C	109	GLN
1	C	112	ILE
1	C	113	ASN
1	C	117	ILE
1	C	120	LYS
1	C	131	ILE
1	C	142	GLU
1	C	143	GLN

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Mol	Chain	Res	Type
1	C	146	LEU
1	C	156	GLU
1	C	162	GLU
1	C	177	ILE
1	C	184	LEU
1	C	186	GLU
1	C	188	LEU
1	C	189	THR
1	C	196	LEU
1	C	198	GLU
1	C	207	TYR
1	C	209	GLN
1	C	210	ARG
1	C	215	THR
1	C	218	THR
1	C	227	MET
1	C	228	LEU
1	C	235	ASN
1	C	242	ASN
1	C	244	MET
1	C	249	THR
1	C	252	GLU
1	C	254	PRO
1	C	258	THR
1	C	261	GLN
1	C	263	LEU
1	C	267	ILE
1	C	269	VAL
1	C	279	THR
1	C	286	ARG
1	C	299	VAL
1	C	312	ASN
1	C	316	LEU
1	C	322	SER
1	C	335	MET
1	C	336	THR
1	C	342	VAL
1	C	347	ARG
1	C	351	ARG
1	C	353	MET
1	C	355	TYR
1	C	357	ILE

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Mol	Chain	Res	Type
1	C	362	LEU
1	C	367	SER
1	C	368	GLU
1	C	372	VAL
1	C	377	THR
1	C	380	ILE
1	C	390	MET
1	C	397	SER
1	C	405	GLU
1	C	413	LEU
1	C	417	ASP
1	C	420	VAL
1	C	429	LEU
1	C	430	VAL
1	C	439	PRO
1	C	440	SER
1	C	441	ASP
1	C	447	LEU
1	C	449	ARG
1	C	458	MET
1	C	461	MET
1	C	463	LEU
1	C	465	LEU
1	C	476	ILE
1	C	479	MET
1	C	483	SER
1	C	487	VAL
1	C	495	LEU
1	C	505	GLN
1	C	509	PRO
1	C	519	VAL
1	C	520	MET
1	C	525	ARG
1	C	526	LEU
1	C	529	LEU
1	C	534	ASP
1	C	537	GLU
1	C	544	GLN
1	C	559	ARG
1	C	564	ASP
1	C	569	ILE
1	C	572	THR

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Mol	Chain	Res	Type
1	C	584	ASP
1	C	606	LEU
1	C	607	THR
1	C	621	ILE
1	C	631	LEU
1	C	634	SER
1	C	636	LEU
1	C	637	ARG
1	C	638	THR
1	C	640	THR
1	C	642	LEU
1	C	644	VAL
1	C	650	LEU
1	C	658	LEU
1	C	665	THR
1	C	670	LEU
1	C	673	GLU
1	C	678	ARG
1	C	704	LEU
1	C	705	LEU
1	C	715	VAL
1	C	724	ASN
1	C	731	SER
1	C	734	LEU
1	C	746	ILE
1	C	764	THR
1	C	768	GLU
1	C	786	ASP
1	C	787	ARG
1	C	794	VAL
1	C	795	ILE
1	C	803	THR
1	C	806	SER
1	C	812	LYS
1	C	820	ARG
1	C	824	GLN
1	C	826	ARG
1	C	831	LEU
1	C	833	SER
1	C	842	GLU
1	C	850	ARG
1	C	851	LYS

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Mol	Chain	Res	Type
1	C	855	THR
1	C	863	LEU
1	C	875	MET
1	C	884	SER
1	C	889	GLU
1	C	912	SER
1	C	934	GLN
1	C	937	LYS
1	C	950	THR
1	C	952	MET
1	C	953	ILE
1	C	958	HIS
1	C	960	THR
1	C	966	ILE
1	C	970	PRO
1	C	978	GLU
1	C	982	GLN
1	C	983	LEU
1	C	1003	ARG
1	C	1008	THR
1	C	1015	LYS
1	C	1036	THR
1	C	1043	LEU
1	C	1057	THR
1	C	1058	LEU
1	C	1059	ASN
1	C	1062	ARG
1	C	1065	VAL
1	C	1066	ARG
1	C	1075	THR
1	C	1077	ARG
1	C	1085	LEU
1	C	1104	MET
1	C	1109	HIS
1	C	1119	VAL
1	C	1122	ASP
1	C	1124	LEU
1	C	1131	THR
1	C	1142	LEU
1	C	1145	GLU
1	C	1157	SER
1	C	1161	VAL

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Mol	Chain	Res	Type
1	C	1164	ARG
1	C	1170	GLN
1	C	1171	VAL
1	C	1173	ARG
1	C	1190	VAL
1	C	1206	GLU
1	C	1207	VAL
1	C	1211	LEU
1	C	1220	ARG
1	C	1222	LEU
1	C	1225	GLU
1	C	1229	MET
1	C	1246	LEU
1	C	1253	LYS
1	C	1261	PRO
1	C	1264	ILE
1	C	1267	ARG
1	C	1269	ARG
1	C	1271	THR
1	C	1274	GLN
1	C	1289	MET
1	C	1291	ASP
1	C	1301	SER
1	C	1304	THR
1	C	1308	ARG
1	C	1310	THR
1	C	1314	PRO
1	C	1317	THR
1	C	1318	ASN
1	C	1349	ARG
1	C	1355	VAL
1	C	1357	VAL
1	C	1360	CYS
1	C	1369	THR
1	C	1374	VAL
1	C	1379	VAL
1	C	1381	ASP
1	C	1382	ASN
1	C	1388	THR
1	C	1394	VAL
1	C	1398	ASP
1	C	1400	SER

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Mol	Chain	Res	Type
1	C	1401	LEU
1	C	1402	PRO
1	C	1408	GLU
1	C	1410	VAL
1	C	1419	HIS
1	C	1421	GLU
1	C	1422	SER
1	C	1424	LEU
1	C	1425	LYS
1	C	1428	ILE
1	C	1449	ARG
1	C	1452	THR
1	C	1461	GLU
1	C	1466	LEU
1	C	1470	VAL
1	C	1471	HIS
1	C	1472	LEU
1	D	3	VAL
1	D	34	VAL
1	D	35	ASP
1	D	37	ASP
1	D	40	THR
1	D	47	HIS
1	D	59	VAL
1	D	62	ILE
1	D	68	ASP
1	D	76	VAL
1	D	80	ARG
1	D	81	ILE
1	D	92	ILE
1	D	109	GLN
1	D	113	ASN
1	D	117	ILE
1	D	120	LYS
1	D	143	GLN
1	D	146	LEU
1	D	156	GLU
1	D	173	SER
1	D	184	LEU
1	D	186	GLU
1	D	188	LEU
1	D	189	THR

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Mol	Chain	Res	Type
1	D	198	GLU
1	D	209	GLN
1	D	210	ARG
1	D	215	THR
1	D	218	THR
1	D	227	MET
1	D	235	ASN
1	D	241	VAL
1	D	242	ASN
1	D	247	HIS
1	D	249	THR
1	D	254	PRO
1	D	258	THR
1	D	260	MET
1	D	261	GLN
1	D	263	LEU
1	D	269	VAL
1	D	274	SER
1	D	279	THR
1	D	286	ARG
1	D	290	THR
1	D	297	MET
1	D	299	VAL
1	D	308	THR
1	D	312	ASN
1	D	316	LEU
1	D	317	ILE
1	D	322	SER
1	D	325	GLU
1	D	347	ARG
1	D	351	ARG
1	D	353	MET
1	D	362	LEU
1	D	367	SER
1	D	368	GLU
1	D	377	THR
1	D	380	ILE
1	D	385	LEU
1	D	389	GLU
1	D	390	MET
1	D	397	SER
1	D	402	ARG

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Mol	Chain	Res	Type
1	D	405	GLU
1	D	412	THR
1	D	413	LEU
1	D	417	ASP
1	D	420	VAL
1	D	422	ASN
1	D	423	THR
1	D	429	LEU
1	D	430	VAL
1	D	439	PRO
1	D	447	LEU
1	D	449	ARG
1	D	461	MET
1	D	462	GLU
1	D	468	MET
1	D	481	ASP
1	D	483	SER
1	D	487	VAL
1	D	491	LYS
1	D	495	LEU
1	D	500	ARG
1	D	501	GLN
1	D	519	VAL
1	D	520	MET
1	D	522	LEU
1	D	524	THR
1	D	526	LEU
1	D	534	ASP
1	D	537	GLU
1	D	538	THR
1	D	542	LEU
1	D	555	PHE
1	D	559	ARG
1	D	564	ASP
1	D	569	ILE
1	D	570	ASP
1	D	572	THR
1	D	584	ASP
1	D	592	GLU
1	D	593	THR
1	D	606	LEU
1	D	607	THR

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Mol	Chain	Res	Type
1	D	608	ASP
1	D	621	ILE
1	D	622	LEU
1	D	631	LEU
1	D	636	LEU
1	D	637	ARG
1	D	640	THR
1	D	642	LEU
1	D	658	LEU
1	D	659	ILE
1	D	665	THR
1	D	670	LEU
1	D	673	GLU
1	D	681	ARG
1	D	690	GLU
1	D	704	LEU
1	D	714	SER
1	D	717	SER
1	D	731	SER
1	D	746	ILE
1	D	751	LEU
1	D	764	THR
1	D	770	VAL
1	D	771	VAL
1	D	786	ASP
1	D	787	ARG
1	D	794	VAL
1	D	805	ASP
1	D	817	VAL
1	D	820	ARG
1	D	823	MET
1	D	824	GLN
1	D	826	ARG
1	D	833	SER
1	D	841	ASP
1	D	849	ILE
1	D	850	ARG
1	D	855	THR
1	D	859	SER
1	D	860	MET
1	D	884	SER
1	D	889	GLU

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Mol	Chain	Res	Type
1	D	898	LYS
1	D	912	SER
1	D	918	THR
1	D	934	GLN
1	D	937	LYS
1	D	950	THR
1	D	952	MET
1	D	958	HIS
1	D	960	THR
1	D	966	ILE
1	D	978	GLU
1	D	983	LEU
1	D	1001	VAL
1	D	1002	SER
1	D	1003	ARG
1	D	1008	THR
1	D	1015	LYS
1	D	1030	THR
1	D	1043	LEU
1	D	1050	SER
1	D	1057	THR
1	D	1058	LEU
1	D	1059	ASN
1	D	1062	ARG
1	D	1064	ARG
1	D	1065	VAL
1	D	1077	ARG
1	D	1079	ILE
1	D	1090	PHE
1	D	1098	ILE
1	D	1104	MET
1	D	1105	VAL
1	D	1109	HIS
1	D	1114	PRO
1	D	1119	VAL
1	D	1121	ASP
1	D	1122	ASP
1	D	1124	LEU
1	D	1129	VAL
1	D	1131	THR
1	D	1142	LEU
1	D	1145	GLU

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Mol	Chain	Res	Type
1	D	1146	VAL
1	D	1147	ARG
1	D	1157	SER
1	D	1161	VAL
1	D	1167	LEU
1	D	1169	HIS
1	D	1170	GLN
1	D	1171	VAL
1	D	1186	ARG
1	D	1190	VAL
1	D	1195	ASN
1	D	1201	LEU
1	D	1207	VAL
1	D	1229	MET
1	D	1237	ASN
1	D	1238	THR
1	D	1245	ARG
1	D	1246	LEU
1	D	1247	SER
1	D	1253	LYS
1	D	1261	PRO
1	D	1264	ILE
1	D	1265	THR
1	D	1269	ARG
1	D	1271	THR
1	D	1289	MET
1	D	1298	LYS
1	D	1308	ARG
1	D	1317	THR
1	D	1318	ASN
1	D	1344	GLU
1	D	1349	ARG
1	D	1355	VAL
1	D	1357	VAL
1	D	1360	CYS
1	D	1369	THR
1	D	1379	VAL
1	D	1381	ASP
1	D	1388	THR
1	D	1397	LEU
1	D	1398	ASP
1	D	1400	SER

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Mol	Chain	Res	Type
1	D	1401	LEU
1	D	1408	GLU
1	D	1409	SER
1	D	1410	VAL
1	D	1421	GLU
1	D	1422	SER
1	D	1435	THR
1	D	1449	ARG
1	D	1452	THR
1	D	1465	ARG
1	D	1466	LEU
1	D	1470	VAL
1	D	1471	HIS
1	E	1	CYS
1	E	3	VAL
1	E	34	VAL
1	E	35	ASP
1	E	37	ASP
1	E	39	LYS
1	E	40	THR
1	E	47	HIS
1	E	52	GLN
1	E	59	VAL
1	E	62	ILE
1	E	68	ASP
1	E	69	ASN
1	E	76	VAL
1	E	78	LEU
1	E	80	ARG
1	E	81	ILE
1	E	109	GLN
1	E	112	ILE
1	E	113	ASN
1	E	117	ILE
1	E	120	LYS
1	E	131	ILE
1	E	142	GLU
1	E	143	GLN
1	E	146	LEU
1	E	156	GLU
1	E	162	GLU
1	E	177	ILE

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Mol	Chain	Res	Type
1	E	184	LEU
1	E	186	GLU
1	E	188	LEU
1	E	189	THR
1	E	196	LEU
1	E	198	GLU
1	E	207	TYR
1	E	209	GLN
1	E	210	ARG
1	E	215	THR
1	E	218	THR
1	E	227	MET
1	E	228	LEU
1	E	235	ASN
1	E	242	ASN
1	E	244	MET
1	E	249	THR
1	E	252	GLU
1	E	254	PRO
1	E	258	THR
1	E	261	GLN
1	E	263	LEU
1	E	267	ILE
1	E	269	VAL
1	E	279	THR
1	E	286	ARG
1	E	299	VAL
1	E	312	ASN
1	E	316	LEU
1	E	322	SER
1	E	335	MET
1	E	336	THR
1	E	342	VAL
1	E	347	ARG
1	E	351	ARG
1	E	353	MET
1	E	355	TYR
1	E	357	ILE
1	E	362	LEU
1	E	367	SER
1	E	368	GLU
1	E	372	VAL

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Mol	Chain	Res	Type
1	E	377	THR
1	E	380	ILE
1	E	390	MET
1	E	397	SER
1	E	405	GLU
1	E	413	LEU
1	E	417	ASP
1	E	420	VAL
1	E	429	LEU
1	E	430	VAL
1	E	439	PRO
1	E	440	SER
1	E	441	ASP
1	E	447	LEU
1	E	449	ARG
1	E	458	MET
1	E	461	MET
1	E	463	LEU
1	E	465	LEU
1	E	476	ILE
1	E	479	MET
1	E	483	SER
1	E	487	VAL
1	E	495	LEU
1	E	505	GLN
1	E	509	PRO
1	E	519	VAL
1	E	520	MET
1	E	525	ARG
1	E	526	LEU
1	E	529	LEU
1	E	534	ASP
1	E	537	GLU
1	E	544	GLN
1	E	559	ARG
1	E	564	ASP
1	E	569	ILE
1	E	572	THR
1	E	584	ASP
1	E	606	LEU
1	E	607	THR
1	E	621	ILE

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Mol	Chain	Res	Type
1	E	631	LEU
1	E	634	SER
1	E	636	LEU
1	E	637	ARG
1	E	638	THR
1	E	640	THR
1	E	642	LEU
1	E	644	VAL
1	E	650	LEU
1	E	658	LEU
1	E	665	THR
1	E	670	LEU
1	E	673	GLU
1	E	678	ARG
1	E	704	LEU
1	E	705	LEU
1	E	715	VAL
1	E	724	ASN
1	E	731	SER
1	E	734	LEU
1	E	746	ILE
1	E	764	THR
1	E	768	GLU
1	E	786	ASP
1	E	787	ARG
1	E	794	VAL
1	E	795	ILE
1	E	803	THR
1	E	806	SER
1	E	812	LYS
1	E	820	ARG
1	E	824	GLN
1	E	826	ARG
1	E	831	LEU
1	E	833	SER
1	E	842	GLU
1	E	850	ARG
1	E	851	LYS
1	E	855	THR
1	E	863	LEU
1	E	875	MET
1	E	884	SER

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Mol	Chain	Res	Type
1	E	889	GLU
1	E	912	SER
1	E	934	GLN
1	E	937	LYS
1	E	950	THR
1	E	952	MET
1	E	953	ILE
1	E	958	HIS
1	E	960	THR
1	E	966	ILE
1	E	970	PRO
1	E	978	GLU
1	E	982	GLN
1	E	983	LEU
1	E	1003	ARG
1	E	1008	THR
1	E	1015	LYS
1	E	1036	THR
1	E	1043	LEU
1	E	1057	THR
1	E	1058	LEU
1	E	1059	ASN
1	E	1062	ARG
1	E	1065	VAL
1	E	1066	ARG
1	E	1075	THR
1	E	1077	ARG
1	E	1085	LEU
1	E	1104	MET
1	E	1109	HIS
1	E	1119	VAL
1	E	1122	ASP
1	E	1124	LEU
1	E	1131	THR
1	E	1142	LEU
1	E	1145	GLU
1	E	1157	SER
1	E	1161	VAL
1	E	1164	ARG
1	E	1170	GLN
1	E	1171	VAL
1	E	1173	ARG

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Mol	Chain	Res	Type
1	E	1190	VAL
1	E	1206	GLU
1	E	1207	VAL
1	E	1211	LEU
1	E	1220	ARG
1	E	1222	LEU
1	E	1225	GLU
1	E	1229	MET
1	E	1246	LEU
1	E	1253	LYS
1	E	1261	PRO
1	E	1264	ILE
1	E	1267	ARG
1	E	1269	ARG
1	E	1271	THR
1	E	1274	GLN
1	E	1289	MET
1	E	1291	ASP
1	E	1301	SER
1	E	1304	THR
1	E	1308	ARG
1	E	1310	THR
1	E	1314	PRO
1	E	1317	THR
1	E	1318	ASN
1	E	1349	ARG
1	E	1355	VAL
1	E	1357	VAL
1	E	1360	CYS
1	E	1369	THR
1	E	1374	VAL
1	E	1379	VAL
1	E	1381	ASP
1	E	1382	ASN
1	E	1388	THR
1	E	1394	VAL
1	E	1398	ASP
1	E	1400	SER
1	E	1401	LEU
1	E	1402	PRO
1	E	1408	GLU
1	E	1410	VAL

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Mol	Chain	Res	Type
1	E	1419	HIS
1	E	1421	GLU
1	E	1422	SER
1	E	1424	LEU
1	E	1425	LYS
1	E	1428	ILE
1	E	1449	ARG
1	E	1452	THR
1	E	1461	GLU
1	E	1466	LEU
1	E	1470	VAL
1	E	1471	HIS
1	E	1472	LEU
1	F	3	VAL
1	F	34	VAL
1	F	35	ASP
1	F	37	ASP
1	F	40	THR
1	F	47	HIS
1	F	59	VAL
1	F	62	ILE
1	F	68	ASP
1	F	76	VAL
1	F	80	ARG
1	F	81	ILE
1	F	92	ILE
1	F	109	GLN
1	F	113	ASN
1	F	117	ILE
1	F	120	LYS
1	F	143	GLN
1	F	146	LEU
1	F	156	GLU
1	F	173	SER
1	F	184	LEU
1	F	186	GLU
1	F	188	LEU
1	F	189	THR
1	F	198	GLU
1	F	209	GLN
1	F	210	ARG
1	F	215	THR

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Mol	Chain	Res	Type
1	F	218	THR
1	F	227	MET
1	F	235	ASN
1	F	241	VAL
1	F	242	ASN
1	F	247	HIS
1	F	249	THR
1	F	254	PRO
1	F	258	THR
1	F	260	MET
1	F	261	GLN
1	F	263	LEU
1	F	269	VAL
1	F	274	SER
1	F	279	THR
1	F	286	ARG
1	F	290	THR
1	F	297	MET
1	F	299	VAL
1	F	308	THR
1	F	312	ASN
1	F	316	LEU
1	F	317	ILE
1	F	322	SER
1	F	325	GLU
1	F	347	ARG
1	F	351	ARG
1	F	353	MET
1	F	362	LEU
1	F	367	SER
1	F	368	GLU
1	F	377	THR
1	F	380	ILE
1	F	385	LEU
1	F	389	GLU
1	F	390	MET
1	F	397	SER
1	F	402	ARG
1	F	405	GLU
1	F	412	THR
1	F	413	LEU
1	F	417	ASP

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Mol	Chain	Res	Type
1	F	420	VAL
1	F	422	ASN
1	F	423	THR
1	F	429	LEU
1	F	430	VAL
1	F	439	PRO
1	F	447	LEU
1	F	449	ARG
1	F	461	MET
1	F	462	GLU
1	F	468	MET
1	F	481	ASP
1	F	483	SER
1	F	487	VAL
1	F	491	LYS
1	F	495	LEU
1	F	500	ARG
1	F	501	GLN
1	F	519	VAL
1	F	520	MET
1	F	522	LEU
1	F	524	THR
1	F	526	LEU
1	F	534	ASP
1	F	537	GLU
1	F	538	THR
1	F	542	LEU
1	F	555	PHE
1	F	559	ARG
1	F	564	ASP
1	F	569	ILE
1	F	570	ASP
1	F	572	THR
1	F	584	ASP
1	F	592	GLU
1	F	593	THR
1	F	606	LEU
1	F	607	THR
1	F	608	ASP
1	F	621	ILE
1	F	622	LEU
1	F	631	LEU

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Mol	Chain	Res	Type
1	F	636	LEU
1	F	637	ARG
1	F	640	THR
1	F	642	LEU
1	F	658	LEU
1	F	659	ILE
1	F	665	THR
1	F	670	LEU
1	F	673	GLU
1	F	681	ARG
1	F	690	GLU
1	F	704	LEU
1	F	714	SER
1	F	717	SER
1	F	731	SER
1	F	746	ILE
1	F	751	LEU
1	F	764	THR
1	F	770	VAL
1	F	771	VAL
1	F	786	ASP
1	F	787	ARG
1	F	794	VAL
1	F	805	ASP
1	F	817	VAL
1	F	820	ARG
1	F	823	MET
1	F	824	GLN
1	F	826	ARG
1	F	833	SER
1	F	841	ASP
1	F	849	ILE
1	F	850	ARG
1	F	855	THR
1	F	859	SER
1	F	860	MET
1	F	884	SER
1	F	889	GLU
1	F	898	LYS
1	F	912	SER
1	F	918	THR
1	F	934	GLN

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Mol	Chain	Res	Type
1	F	937	LYS
1	F	950	THR
1	F	952	MET
1	F	958	HIS
1	F	960	THR
1	F	966	ILE
1	F	978	GLU
1	F	983	LEU
1	F	1001	VAL
1	F	1002	SER
1	F	1003	ARG
1	F	1008	THR
1	F	1015	LYS
1	F	1030	THR
1	F	1043	LEU
1	F	1050	SER
1	F	1057	THR
1	F	1058	LEU
1	F	1059	ASN
1	F	1062	ARG
1	F	1064	ARG
1	F	1065	VAL
1	F	1077	ARG
1	F	1079	ILE
1	F	1090	PHE
1	F	1098	ILE
1	F	1104	MET
1	F	1105	VAL
1	F	1109	HIS
1	F	1114	PRO
1	F	1119	VAL
1	F	1121	ASP
1	F	1122	ASP
1	F	1124	LEU
1	F	1129	VAL
1	F	1131	THR
1	F	1142	LEU
1	F	1145	GLU
1	F	1146	VAL
1	F	1147	ARG
1	F	1157	SER
1	F	1161	VAL

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Mol	Chain	Res	Type
1	F	1167	LEU
1	F	1169	HIS
1	F	1170	GLN
1	F	1171	VAL
1	F	1186	ARG
1	F	1190	VAL
1	F	1195	ASN
1	F	1201	LEU
1	F	1207	VAL
1	F	1229	MET
1	F	1237	ASN
1	F	1238	THR
1	F	1245	ARG
1	F	1246	LEU
1	F	1247	SER
1	F	1253	LYS
1	F	1261	PRO
1	F	1264	ILE
1	F	1265	THR
1	F	1269	ARG
1	F	1271	THR
1	F	1289	MET
1	F	1298	LYS
1	F	1308	ARG
1	F	1317	THR
1	F	1318	ASN
1	F	1344	GLU
1	F	1349	ARG
1	F	1355	VAL
1	F	1357	VAL
1	F	1360	CYS
1	F	1369	THR
1	F	1379	VAL
1	F	1381	ASP
1	F	1388	THR
1	F	1397	LEU
1	F	1398	ASP
1	F	1400	SER
1	F	1401	LEU
1	F	1408	GLU
1	F	1409	SER
1	F	1410	VAL

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Mol	Chain	Res	Type
1	F	1421	GLU
1	F	1422	SER
1	F	1435	THR
1	F	1449	ARG
1	F	1452	THR
1	F	1465	ARG
1	F	1466	LEU
1	F	1470	VAL
1	F	1471	HIS
2	G	37	ASP
2	G	52	VAL
2	G	61	VAL
2	G	69	LEU
2	G	71	LEU
2	G	72	THR
2	G	97	ILE
2	G	109	VAL
2	G	111	GLU
2	G	114	THR
2	G	118	VAL
2	G	119	THR
2	G	123	VAL
2	G	125	LYS
2	G	137	VAL
2	G	138	LYS
2	G	139	PRO
2	G	141	THR
2	G	146	LEU
2	G	148	LEU
2	G	150	VAL
2	G	152	VAL
2	G	166	LEU
2	G	173	VAL
2	G	175	VAL
2	G	181	ARG
2	G	186	LEU
2	G	195	LEU
2	G	196	GLU
2	G	197	LYS
2	G	200	VAL
2	G	203	ARG
2	G	204	VAL

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Mol	Chain	Res	Type
2	G	206	LEU
2	G	207	LEU
2	G	212	VAL
2	G	216	PRO
2	G	220	VAL
2	G	226	LEU
2	G	236	VAL
2	G	237	LEU
2	G	238	VAL
2	G	240	THR
2	G	242	VAL
2	G	244	LYS
2	G	248	ILE
2	G	255	LEU
2	G	259	VAL
2	G	262	LEU
2	G	265	LEU
2	G	266	THR
2	G	267	THR
2	G	271	VAL
2	G	273	LEU
2	G	278	GLU
2	G	293	VAL
2	G	295	LEU
2	G	302	MET
2	G	307	THR
2	G	319	LEU
2	G	328	PRO
2	G	331	GLN
2	G	334	VAL
2	G	345	ILE
2	G	347	GLN
2	G	350	PRO
2	G	354	THR
2	G	356	ASP
2	G	357	THR
2	G	358	VAL
2	G	359	VAL
2	G	360	THR
2	G	365	VAL
2	G	367	ILE
2	G	371	VAL

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Mol	Chain	Res	Type
2	G	373	ASP
2	G	375	THR
2	G	379	THR
2	G	380	PRO
2	G	382	VAL
2	G	383	ILE
2	G	389	THR
2	G	390	VAL
2	G	394	LEU
2	G	395	VAL
2	G	399	LEU
2	G	403	PRO
2	G	405	ASP
2	G	406	LEU
2	G	408	ASN
2	G	411	ASP
2	G	413	PRO
2	G	415	LEU
2	G	416	LYS
2	G	418	THR
2	G	419	ARG
2	G	422	THR
2	G	423	LEU
2	G	424	LEU
2	G	425	VAL
2	G	430	LYS
2	G	432	THR
2	G	437	VAL
2	G	449	LEU
2	G	450	VAL
2	G	454	ILE
2	G	462	GLU
2	G	475	PRO
2	G	476	VAL
2	G	478	VAL
2	H	37	ASP
2	H	52	VAL
2	H	61	VAL
2	H	69	LEU
2	H	71	LEU
2	H	72	THR
2	H	97	ILE

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Mol	Chain	Res	Type
2	H	109	VAL
2	H	111	GLU
2	H	114	THR
2	H	118	VAL
2	H	119	THR
2	H	123	VAL
2	H	125	LYS
2	H	137	VAL
2	H	138	LYS
2	H	139	PRO
2	H	141	THR
2	H	146	LEU
2	H	148	LEU
2	H	150	VAL
2	H	152	VAL
2	H	166	LEU
2	H	173	VAL
2	H	175	VAL
2	H	181	ARG
2	H	186	LEU
2	H	195	LEU
2	H	196	GLU
2	H	197	LYS
2	H	200	VAL
2	H	203	ARG
2	H	204	VAL
2	H	206	LEU
2	H	207	LEU
2	H	212	VAL
2	H	216	PRO
2	H	220	VAL
2	H	226	LEU
2	H	236	VAL
2	H	237	LEU
2	H	238	VAL
2	H	240	THR
2	H	242	VAL
2	H	244	LYS
2	H	248	ILE
2	H	255	LEU
2	H	259	VAL
2	H	262	LEU

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Mol	Chain	Res	Type
2	H	265	LEU
2	H	266	THR
2	H	267	THR
2	H	271	VAL
2	H	273	LEU
2	H	278	GLU
2	H	293	VAL
2	H	295	LEU
2	H	302	MET
2	H	307	THR
2	H	319	LEU
2	H	328	PRO
2	H	331	GLN
2	H	334	VAL
2	H	345	ILE
2	H	347	GLN
2	H	350	PRO
2	H	354	THR
2	H	356	ASP
2	H	357	THR
2	H	358	VAL
2	H	359	VAL
2	H	360	THR
2	H	365	VAL
2	H	367	ILE
2	H	371	VAL
2	H	373	ASP
2	H	375	THR
2	H	379	THR
2	H	380	PRO
2	H	382	VAL
2	H	383	ILE
2	H	389	THR
2	H	390	VAL
2	H	394	LEU
2	H	395	VAL
2	H	399	LEU
2	H	403	PRO
2	H	405	ASP
2	H	406	LEU
2	H	408	ASN
2	H	411	ASP

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Mol	Chain	Res	Type
2	H	413	PRO
2	H	415	LEU
2	H	416	LYS
2	H	418	THR
2	H	419	ARG
2	H	422	THR
2	H	423	LEU
2	H	424	LEU
2	H	425	VAL
2	H	430	LYS
2	H	432	THR
2	H	437	VAL
2	H	449	LEU
2	H	450	VAL
2	H	454	ILE
2	H	462	GLU
2	H	475	PRO
2	H	476	VAL
2	H	478	VAL
2	I	37	ASP
2	I	52	VAL
2	I	61	VAL
2	I	69	LEU
2	I	71	LEU
2	I	72	THR
2	I	97	ILE
2	I	109	VAL
2	I	111	GLU
2	I	114	THR
2	I	118	VAL
2	I	119	THR
2	I	123	VAL
2	I	125	LYS
2	I	137	VAL
2	I	138	LYS
2	I	139	PRO
2	I	141	THR
2	I	146	LEU
2	I	148	LEU
2	I	150	VAL
2	I	152	VAL
2	I	166	LEU

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Mol	Chain	Res	Type
2	I	173	VAL
2	I	175	VAL
2	I	181	ARG
2	I	186	LEU
2	I	195	LEU
2	I	196	GLU
2	I	197	LYS
2	I	200	VAL
2	I	203	ARG
2	I	204	VAL
2	I	206	LEU
2	I	207	LEU
2	I	212	VAL
2	I	216	PRO
2	I	220	VAL
2	I	226	LEU
2	I	236	VAL
2	I	237	LEU
2	I	238	VAL
2	I	240	THR
2	I	242	VAL
2	I	244	LYS
2	I	248	ILE
2	I	255	LEU
2	I	259	VAL
2	I	262	LEU
2	I	265	LEU
2	I	266	THR
2	I	267	THR
2	I	271	VAL
2	I	273	LEU
2	I	278	GLU
2	I	293	VAL
2	I	295	LEU
2	I	302	MET
2	I	307	THR
2	I	319	LEU
2	I	328	PRO
2	I	331	GLN
2	I	334	VAL
2	I	345	ILE
2	I	347	GLN

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Mol	Chain	Res	Type
2	I	350	PRO
2	I	354	THR
2	I	356	ASP
2	I	357	THR
2	I	358	VAL
2	I	359	VAL
2	I	360	THR
2	I	365	VAL
2	I	367	ILE
2	I	371	VAL
2	I	373	ASP
2	I	375	THR
2	I	379	THR
2	I	380	PRO
2	I	382	VAL
2	I	383	ILE
2	I	389	THR
2	I	390	VAL
2	I	394	LEU
2	I	395	VAL
2	I	399	LEU
2	I	403	PRO
2	I	405	ASP
2	I	406	LEU
2	I	408	ASN
2	I	411	ASP
2	I	413	PRO
2	I	415	LEU
2	I	416	LYS
2	I	418	THR
2	I	419	ARG
2	I	422	THR
2	I	423	LEU
2	I	424	LEU
2	I	425	VAL
2	I	430	LYS
2	I	432	THR
2	I	437	VAL
2	I	449	LEU
2	I	450	VAL
2	I	454	ILE
2	I	462	GLU

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Mol	Chain	Res	Type
2	I	475	PRO
2	I	476	VAL
2	I	478	VAL
2	J	37	ASP
2	J	52	VAL
2	J	61	VAL
2	J	69	LEU
2	J	71	LEU
2	J	72	THR
2	J	97	ILE
2	J	109	VAL
2	J	111	GLU
2	J	114	THR
2	J	118	VAL
2	J	119	THR
2	J	123	VAL
2	J	125	LYS
2	J	137	VAL
2	J	138	LYS
2	J	139	PRO
2	J	141	THR
2	J	146	LEU
2	J	148	LEU
2	J	150	VAL
2	J	152	VAL
2	J	166	LEU
2	J	173	VAL
2	J	175	VAL
2	J	181	ARG
2	J	186	LEU
2	J	195	LEU
2	J	196	GLU
2	J	197	LYS
2	J	200	VAL
2	J	203	ARG
2	J	204	VAL
2	J	206	LEU
2	J	207	LEU
2	J	212	VAL
2	J	216	PRO
2	J	220	VAL
2	J	226	LEU

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Mol	Chain	Res	Type
2	J	236	VAL
2	J	237	LEU
2	J	238	VAL
2	J	240	THR
2	J	242	VAL
2	J	244	LYS
2	J	248	ILE
2	J	255	LEU
2	J	259	VAL
2	J	262	LEU
2	J	265	LEU
2	J	266	THR
2	J	267	THR
2	J	271	VAL
2	J	273	LEU
2	J	278	GLU
2	J	293	VAL
2	J	295	LEU
2	J	302	MET
2	J	307	THR
2	J	319	LEU
2	J	328	PRO
2	J	331	GLN
2	J	334	VAL
2	J	345	ILE
2	J	347	GLN
2	J	350	PRO
2	J	354	THR
2	J	356	ASP
2	J	357	THR
2	J	358	VAL
2	J	359	VAL
2	J	360	THR
2	J	365	VAL
2	J	367	ILE
2	J	371	VAL
2	J	373	ASP
2	J	375	THR
2	J	379	THR
2	J	380	PRO
2	J	382	VAL
2	J	383	ILE

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Mol	Chain	Res	Type
2	J	389	THR
2	J	390	VAL
2	J	394	LEU
2	J	395	VAL
2	J	399	LEU
2	J	403	PRO
2	J	405	ASP
2	J	406	LEU
2	J	408	ASN
2	J	411	ASP
2	J	413	PRO
2	J	415	LEU
2	J	416	LYS
2	J	418	THR
2	J	419	ARG
2	J	422	THR
2	J	423	LEU
2	J	424	LEU
2	J	425	VAL
2	J	430	LYS
2	J	432	THR
2	J	437	VAL
2	J	449	LEU
2	J	450	VAL
2	J	454	ILE
2	J	462	GLU
2	J	475	PRO
2	J	476	VAL
2	J	478	VAL
2	K	37	ASP
2	K	52	VAL
2	K	61	VAL
2	K	69	LEU
2	K	71	LEU
2	K	72	THR
2	K	97	ILE
2	K	109	VAL
2	K	111	GLU
2	K	114	THR
2	K	118	VAL
2	K	119	THR
2	K	123	VAL

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Mol	Chain	Res	Type
2	K	125	LYS
2	K	137	VAL
2	K	138	LYS
2	K	139	PRO
2	K	141	THR
2	K	146	LEU
2	K	148	LEU
2	K	150	VAL
2	K	152	VAL
2	K	166	LEU
2	K	173	VAL
2	K	175	VAL
2	K	181	ARG
2	K	186	LEU
2	K	195	LEU
2	K	196	GLU
2	K	197	LYS
2	K	200	VAL
2	K	203	ARG
2	K	204	VAL
2	K	206	LEU
2	K	207	LEU
2	K	212	VAL
2	K	216	PRO
2	K	220	VAL
2	K	226	LEU
2	K	236	VAL
2	K	237	LEU
2	K	238	VAL
2	K	240	THR
2	K	242	VAL
2	K	244	LYS
2	K	248	ILE
2	K	255	LEU
2	K	259	VAL
2	K	262	LEU
2	K	265	LEU
2	K	266	THR
2	K	267	THR
2	K	271	VAL
2	K	273	LEU
2	K	278	GLU

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Mol	Chain	Res	Type
2	K	293	VAL
2	K	295	LEU
2	K	302	MET
2	K	307	THR
2	K	319	LEU
2	K	328	PRO
2	K	331	GLN
2	K	334	VAL
2	K	345	ILE
2	K	347	GLN
2	K	350	PRO
2	K	354	THR
2	K	356	ASP
2	K	357	THR
2	K	358	VAL
2	K	359	VAL
2	K	360	THR
2	K	365	VAL
2	K	367	ILE
2	K	371	VAL
2	K	373	ASP
2	K	375	THR
2	K	379	THR
2	K	380	PRO
2	K	382	VAL
2	K	383	ILE
2	K	389	THR
2	K	390	VAL
2	K	394	LEU
2	K	395	VAL
2	K	399	LEU
2	K	403	PRO
2	K	405	ASP
2	K	406	LEU
2	K	408	ASN
2	K	411	ASP
2	K	413	PRO
2	K	415	LEU
2	K	416	LYS
2	K	418	THR
2	K	419	ARG
2	K	422	THR

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Mol	Chain	Res	Type
2	K	423	LEU
2	K	424	LEU
2	K	425	VAL
2	K	430	LYS
2	K	432	THR
2	K	437	VAL
2	K	449	LEU
2	K	450	VAL
2	K	454	ILE
2	K	462	GLU
2	K	475	PRO
2	K	476	VAL
2	K	478	VAL
2	L	37	ASP
2	L	52	VAL
2	L	61	VAL
2	L	69	LEU
2	L	71	LEU
2	L	72	THR
2	L	97	ILE
2	L	109	VAL
2	L	111	GLU
2	L	114	THR
2	L	118	VAL
2	L	119	THR
2	L	123	VAL
2	L	125	LYS
2	L	137	VAL
2	L	138	LYS
2	L	139	PRO
2	L	141	THR
2	L	146	LEU
2	L	148	LEU
2	L	150	VAL
2	L	152	VAL
2	L	166	LEU
2	L	173	VAL
2	L	175	VAL
2	L	181	ARG
2	L	186	LEU
2	L	195	LEU
2	L	196	GLU

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Mol	Chain	Res	Type
2	L	197	LYS
2	L	200	VAL
2	L	203	ARG
2	L	204	VAL
2	L	206	LEU
2	L	207	LEU
2	L	212	VAL
2	L	216	PRO
2	L	220	VAL
2	L	226	LEU
2	L	236	VAL
2	L	237	LEU
2	L	238	VAL
2	L	240	THR
2	L	242	VAL
2	L	244	LYS
2	L	248	ILE
2	L	255	LEU
2	L	259	VAL
2	L	262	LEU
2	L	265	LEU
2	L	266	THR
2	L	267	THR
2	L	271	VAL
2	L	273	LEU
2	L	278	GLU
2	L	293	VAL
2	L	295	LEU
2	L	302	MET
2	L	307	THR
2	L	319	LEU
2	L	328	PRO
2	L	331	GLN
2	L	334	VAL
2	L	345	ILE
2	L	347	GLN
2	L	350	PRO
2	L	354	THR
2	L	356	ASP
2	L	357	THR
2	L	358	VAL
2	L	359	VAL

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Mol	Chain	Res	Type
2	L	360	THR
2	L	365	VAL
2	L	367	ILE
2	L	371	VAL
2	L	373	ASP
2	L	375	THR
2	L	379	THR
2	L	380	PRO
2	L	382	VAL
2	L	383	ILE
2	L	389	THR
2	L	390	VAL
2	L	394	LEU
2	L	395	VAL
2	L	399	LEU
2	L	403	PRO
2	L	405	ASP
2	L	406	LEU
2	L	408	ASN
2	L	411	ASP
2	L	413	PRO
2	L	415	LEU
2	L	416	LYS
2	L	418	THR
2	L	419	ARG
2	L	422	THR
2	L	423	LEU
2	L	424	LEU
2	L	425	VAL
2	L	430	LYS
2	L	432	THR
2	L	437	VAL
2	L	449	LEU
2	L	450	VAL
2	L	454	ILE
2	L	462	GLU
2	L	475	PRO
2	L	476	VAL
2	L	478	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (319) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	30	HIS
1	A	47	HIS
1	A	52	GLN
1	A	64	HIS
1	A	113	ASN
1	A	143	GLN
1	A	163	GLN
1	A	208	HIS
1	A	209	GLN
1	A	214	ASN
1	A	230	HIS
1	A	235	ASN
1	A	240	ASN
1	A	242	ASN
1	A	261	GLN
1	A	313	HIS
1	A	318	GLN
1	A	321	ASN
1	A	452	GLN
1	A	505	GLN
1	A	630	HIS
1	A	643	ASN
1	A	653	HIS
1	A	724	ASN
1	A	738	HIS
1	A	755	GLN
1	A	788	HIS
1	A	796	HIS
1	A	800	GLN
1	A	824	GLN
1	A	924	GLN
1	A	943	GLN
1	A	982	GLN
1	A	1026	ASN
1	A	1059	ASN
1	A	1177	HIS
1	A	1205	ASN
1	A	1230	GLN
1	A	1274	GLN
1	A	1282	GLN
1	A	1293	ASN
1	A	1318	ASN
1	A	1320	ASN

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Mol	Chain	Res	Type
1	A	1363	ASN
1	A	1382	ASN
1	A	1419	HIS
1	A	1471	HIS
1	B	30	HIS
1	B	47	HIS
1	B	52	GLN
1	B	113	ASN
1	B	143	GLN
1	B	165	ASN
1	B	208	HIS
1	B	214	ASN
1	B	235	ASN
1	B	240	ASN
1	B	242	ASN
1	B	247	HIS
1	B	301	GLN
1	B	307	GLN
1	B	313	HIS
1	B	321	ASN
1	B	422	ASN
1	B	452	GLN
1	B	497	HIS
1	B	505	GLN
1	B	643	ASN
1	B	653	HIS
1	B	738	HIS
1	B	755	GLN
1	B	762	HIS
1	B	788	HIS
1	B	800	GLN
1	B	824	GLN
1	B	943	GLN
1	B	982	GLN
1	B	1035	GLN
1	B	1059	ASN
1	B	1063	HIS
1	B	1137	ASN
1	B	1195	ASN
1	B	1205	ASN
1	B	1263	HIS
1	B	1274	GLN

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Mol	Chain	Res	Type
1	B	1318	ASN
1	B	1363	ASN
1	B	1382	ASN
1	B	1419	HIS
1	B	1471	HIS
1	C	30	HIS
1	C	47	HIS
1	C	52	GLN
1	C	64	HIS
1	C	113	ASN
1	C	143	GLN
1	C	163	GLN
1	C	208	HIS
1	C	209	GLN
1	C	214	ASN
1	C	230	HIS
1	C	235	ASN
1	C	240	ASN
1	C	242	ASN
1	C	261	GLN
1	C	313	HIS
1	C	318	GLN
1	C	321	ASN
1	C	452	GLN
1	C	505	GLN
1	C	643	ASN
1	C	653	HIS
1	C	724	ASN
1	C	738	HIS
1	C	755	GLN
1	C	788	HIS
1	C	796	HIS
1	C	800	GLN
1	C	824	GLN
1	C	943	GLN
1	C	982	GLN
1	C	1026	ASN
1	C	1059	ASN
1	C	1177	HIS
1	C	1205	ASN
1	C	1230	GLN
1	C	1274	GLN

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Mol	Chain	Res	Type
1	C	1282	GLN
1	C	1293	ASN
1	C	1318	ASN
1	C	1320	ASN
1	C	1363	ASN
1	C	1382	ASN
1	C	1419	HIS
1	C	1471	HIS
1	D	30	HIS
1	D	47	HIS
1	D	52	GLN
1	D	113	ASN
1	D	143	GLN
1	D	208	HIS
1	D	214	ASN
1	D	235	ASN
1	D	240	ASN
1	D	242	ASN
1	D	247	HIS
1	D	301	GLN
1	D	307	GLN
1	D	321	ASN
1	D	422	ASN
1	D	452	GLN
1	D	497	HIS
1	D	505	GLN
1	D	643	ASN
1	D	653	HIS
1	D	738	HIS
1	D	755	GLN
1	D	762	HIS
1	D	788	HIS
1	D	800	GLN
1	D	824	GLN
1	D	943	GLN
1	D	982	GLN
1	D	1035	GLN
1	D	1059	ASN
1	D	1063	HIS
1	D	1137	ASN
1	D	1195	ASN
1	D	1205	ASN

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Mol	Chain	Res	Type
1	D	1263	HIS
1	D	1274	GLN
1	D	1318	ASN
1	D	1363	ASN
1	D	1382	ASN
1	D	1419	HIS
1	D	1471	HIS
1	E	30	HIS
1	E	47	HIS
1	E	52	GLN
1	E	64	HIS
1	E	113	ASN
1	E	143	GLN
1	E	208	HIS
1	E	209	GLN
1	E	214	ASN
1	E	230	HIS
1	E	235	ASN
1	E	240	ASN
1	E	242	ASN
1	E	261	GLN
1	E	313	HIS
1	E	318	GLN
1	E	321	ASN
1	E	452	GLN
1	E	505	GLN
1	E	630	HIS
1	E	643	ASN
1	E	653	HIS
1	E	724	ASN
1	E	738	HIS
1	E	755	GLN
1	E	788	HIS
1	E	796	HIS
1	E	800	GLN
1	E	824	GLN
1	E	943	GLN
1	E	982	GLN
1	E	1026	ASN
1	E	1059	ASN
1	E	1177	HIS
1	E	1205	ASN

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Mol	Chain	Res	Type
1	E	1230	GLN
1	E	1274	GLN
1	E	1282	GLN
1	E	1293	ASN
1	E	1318	ASN
1	E	1320	ASN
1	E	1363	ASN
1	E	1382	ASN
1	E	1419	HIS
1	E	1471	HIS
1	F	30	HIS
1	F	47	HIS
1	F	52	GLN
1	F	113	ASN
1	F	143	GLN
1	F	165	ASN
1	F	208	HIS
1	F	214	ASN
1	F	235	ASN
1	F	240	ASN
1	F	242	ASN
1	F	247	HIS
1	F	301	GLN
1	F	307	GLN
1	F	313	HIS
1	F	321	ASN
1	F	422	ASN
1	F	452	GLN
1	F	497	HIS
1	F	505	GLN
1	F	544	GLN
1	F	643	ASN
1	F	653	HIS
1	F	738	HIS
1	F	755	GLN
1	F	762	HIS
1	F	788	HIS
1	F	800	GLN
1	F	824	GLN
1	F	943	GLN
1	F	982	GLN
1	F	1035	GLN

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Mol	Chain	Res	Type
1	F	1059	ASN
1	F	1063	HIS
1	F	1137	ASN
1	F	1195	ASN
1	F	1205	ASN
1	F	1263	HIS
1	F	1274	GLN
1	F	1318	ASN
1	F	1363	ASN
1	F	1382	ASN
1	F	1419	HIS
1	F	1471	HIS
2	G	45	ASN
2	G	56	GLN
2	G	63	ASN
2	G	134	GLN
2	G	174	HIS
2	G	269	ASN
2	G	291	HIS
2	G	408	ASN
2	G	433	ASN
2	H	45	ASN
2	H	56	GLN
2	H	63	ASN
2	H	134	GLN
2	H	174	HIS
2	H	269	ASN
2	H	291	HIS
2	H	408	ASN
2	H	433	ASN
2	I	45	ASN
2	I	56	GLN
2	I	63	ASN
2	I	134	GLN
2	I	174	HIS
2	I	269	ASN
2	I	291	HIS
2	I	408	ASN
2	I	433	ASN
2	J	45	ASN
2	J	56	GLN
2	J	63	ASN

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Mol	Chain	Res	Type
2	J	174	HIS
2	J	269	ASN
2	J	291	HIS
2	J	408	ASN
2	J	433	ASN
2	K	45	ASN
2	K	56	GLN
2	K	63	ASN
2	K	134	GLN
2	K	174	HIS
2	K	269	ASN
2	K	291	HIS
2	K	408	ASN
2	K	433	ASN
2	L	45	ASN
2	L	56	GLN
2	L	63	ASN
2	L	128	ASN
2	L	134	GLN
2	L	174	HIS
2	L	269	ASN
2	L	291	HIS
2	L	408	ASN
2	L	433	ASN

5.3.3 RNA

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

42 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	$\#\|Z\| > 2$
6	F3S	C	2476	1	0,9,9	-	-	-		
3	OMT	F	2473	-	9,10,10	4.54	5 (55%)	9,14,14	6.30	5 (55%)
4	FMN	C	2474	-	33,33,33	1.50	5 (15%)	48,50,50	2.80	19 (39%)
3	OMT	D	2473	-	9,10,10	4.54	5 (55%)	9,14,14	6.30	5 (55%)
6	F3S	F	2476	1	0,9,9	-	-	-		
6	F3S	B	2476	1	0,9,9	-	-	-		
7	SF4	H	483	2	0,12,12	-	-	-		
4	FMN	B	2474	-	33,33,33	1.38	4 (12%)	48,50,50	2.69	20 (41%)
4	FMN	E	2474	-	33,33,33	1.50	5 (15%)	48,50,50	2.80	19 (39%)
5	AKG	A	2475	-	9,9,9	3.16	4 (44%)	11,11,11	2.98	4 (36%)
8	FAD	I	484	-	58,58,58	2.27	23 (39%)	85,89,89	1.66	8 (9%)
3	OMT	A	2473	-	9,10,10	4.68	5 (55%)	9,14,14	5.23	6 (66%)
7	SF4	K	483	2	0,12,12	-	-	-		
8	FAD	G	484	-	58,58,58	2.27	24 (41%)	85,89,89	1.66	8 (9%)
3	OMT	C	2473	-	9,10,10	4.69	5 (55%)	9,14,14	5.24	6 (66%)
8	FAD	K	484	-	58,58,58	2.27	23 (39%)	85,89,89	1.66	8 (9%)
7	SF4	L	482	2	0,12,12	-	-	-		
7	SF4	L	483	2	0,12,12	-	-	-		
5	AKG	F	2475	-	9,9,9	3.59	4 (44%)	11,11,11	2.77	4 (36%)
4	FMN	F	2474	-	33,33,33	1.39	4 (12%)	48,50,50	2.69	20 (41%)
8	FAD	L	484	-	58,58,58	2.27	22 (37%)	85,89,89	1.66	8 (9%)
5	AKG	C	2475	-	9,9,9	3.16	4 (44%)	11,11,11	2.98	4 (36%)
3	OMT	B	2473	-	9,10,10	4.54	5 (55%)	9,14,14	6.30	5 (55%)
5	AKG	D	2475	-	9,9,9	3.59	4 (44%)	11,11,11	2.77	4 (36%)
4	FMN	D	2474	-	33,33,33	1.39	4 (12%)	48,50,50	2.69	20 (41%)
6	F3S	A	2476	1	0,9,9	-	-	-		
6	F3S	D	2476	1	0,9,9	-	-	-		
7	SF4	J	483	2	0,12,12	-	-	-		
6	F3S	E	2476	1	0,9,9	-	-	-		
7	SF4	I	483	2	0,12,12	-	-	-		
8	FAD	H	484	-	58,58,58	2.27	22 (37%)	85,89,89	1.66	8 (9%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
3	OMT	E	2473	-	9,10,10	4.68	5 (55%)	9,14,14	5.23	6 (66%)
7	SF4	I	482	2	0,12,12	-	-	-		
7	SF4	G	483	2	0,12,12	-	-	-		
5	AKG	B	2475	-	9,9,9	3.58	4 (44%)	11,11,11	2.77	4 (36%)
7	SF4	G	482	2	0,12,12	-	-	-		
7	SF4	H	482	2	0,12,12	-	-	-		
7	SF4	J	482	2	0,12,12	-	-	-		
7	SF4	K	482	2	0,12,12	-	-	-		
4	FMN	A	2474	-	33,33,33	1.50	5 (15%)	48,50,50	2.80	18 (37%)
5	AKG	E	2475	-	9,9,9	3.16	4 (44%)	11,11,11	2.98	4 (36%)
8	FAD	J	484	-	58,58,58	2.27	24 (41%)	85,89,89	1.66	8 (9%)

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
6	F3S	C	2476	1	-	-	0/3/3/3
3	OMT	F	2473	-	-	5/10/10/10	-
4	FMN	C	2474	-	-	7/18/18/18	0/3/3/3
3	OMT	D	2473	-	-	5/10/10/10	-
6	F3S	F	2476	1	-	-	0/3/3/3
6	F3S	B	2476	1	-	-	0/3/3/3
7	SF4	H	483	2	-	-	0/6/5/5
4	FMN	B	2474	-	-	4/18/18/18	0/3/3/3
4	FMN	E	2474	-	-	7/18/18/18	0/3/3/3
5	AKG	A	2475	-	-	2/9/9/9	-
8	FAD	I	484	-	-	4/34/50/50	0/6/6/6
3	OMT	A	2473	-	-	4/10/10/10	-
8	FAD	G	484	-	-	4/34/50/50	0/6/6/6
7	SF4	K	483	2	-	-	0/6/5/5
3	OMT	C	2473	-	-	4/10/10/10	-
8	FAD	K	484	-	-	4/34/50/50	0/6/6/6
7	SF4	L	482	2	-	-	0/6/5/5
7	SF4	L	483	2	-	-	0/6/5/5
5	AKG	F	2475	-	-	1/9/9/9	-
4	FMN	F	2474	-	-	4/18/18/18	0/3/3/3
8	FAD	L	484	-	-	4/34/50/50	0/6/6/6

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
5	AKG	C	2475	-	-	2/9/9/9	-
3	OMT	B	2473	-	-	5/10/10/10	-
5	AKG	D	2475	-	-	1/9/9/9	-
4	FMN	D	2474	-	-	4/18/18/18	0/3/3/3
6	F3S	A	2476	1	-	-	0/3/3/3
6	F3S	D	2476	1	-	-	0/3/3/3
7	SF4	J	483	2	-	-	0/6/5/5
6	F3S	E	2476	1	-	-	0/3/3/3
8	FAD	H	484	-	-	4/34/50/50	0/6/6/6
7	SF4	I	483	2	-	-	0/6/5/5
3	OMT	E	2473	-	-	4/10/10/10	-
7	SF4	I	482	2	-	-	0/6/5/5
7	SF4	G	483	2	-	-	0/6/5/5
5	AKG	B	2475	-	-	1/9/9/9	-
7	SF4	G	482	2	-	-	0/6/5/5
7	SF4	H	482	2	-	-	0/6/5/5
7	SF4	J	482	2	-	-	0/6/5/5
7	SF4	K	482	2	-	-	0/6/5/5
4	FMN	A	2474	-	-	7/18/18/18	0/3/3/3
5	AKG	E	2475	-	-	2/9/9/9	-
8	FAD	J	484	-	-	4/34/50/50	0/6/6/6

All (219) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	H	484	FAD	PA-O3P	8.13	1.68	1.59
8	L	484	FAD	PA-O3P	8.13	1.68	1.59
8	I	484	FAD	PA-O3P	8.13	1.68	1.59
8	K	484	FAD	PA-O3P	8.13	1.68	1.59
8	G	484	FAD	PA-O3P	8.12	1.68	1.59
8	J	484	FAD	PA-O3P	8.12	1.68	1.59
3	C	2473	OMT	CB-CG	-7.97	1.45	1.52
3	A	2473	OMT	CB-CG	-7.93	1.45	1.52
3	E	2473	OMT	CB-CG	-7.88	1.45	1.52
8	I	484	FAD	P-O3P	-7.14	1.51	1.59
8	K	484	FAD	P-O3P	-7.14	1.51	1.59
8	H	484	FAD	P-O3P	-7.13	1.51	1.59
8	L	484	FAD	P-O3P	-7.13	1.51	1.59
3	B	2473	OMT	CG-SD	-7.12	1.69	1.78
3	F	2473	OMT	CG-SD	-7.11	1.69	1.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	D	2473	OMT	CG-SD	-7.09	1.69	1.78
8	G	484	FAD	P-O3P	-7.08	1.51	1.59
8	J	484	FAD	P-O3P	-7.08	1.51	1.59
3	E	2473	OMT	CG-SD	-6.92	1.69	1.78
3	A	2473	OMT	CG-SD	-6.87	1.69	1.78
3	C	2473	OMT	CG-SD	-6.87	1.69	1.78
3	B	2473	OMT	CB-CG	-6.82	1.46	1.52
3	F	2473	OMT	CB-CG	-6.81	1.46	1.52
3	D	2473	OMT	CB-CG	-6.80	1.46	1.52
3	D	2473	OMT	OD1-SD	6.70	1.57	1.44
3	B	2473	OMT	OD1-SD	6.68	1.57	1.44
3	F	2473	OMT	OD1-SD	6.68	1.57	1.44
5	D	2475	AKG	O5-C2	6.45	1.36	1.23
5	F	2475	AKG	O5-C2	6.44	1.36	1.23
5	B	2475	AKG	O5-C2	6.42	1.36	1.23
5	D	2475	AKG	O1-C1	6.25	1.38	1.22
5	B	2475	AKG	O1-C1	6.24	1.38	1.22
5	F	2475	AKG	O1-C1	6.24	1.37	1.22
3	A	2473	OMT	OD2-SD	6.09	1.56	1.44
3	C	2473	OMT	OD2-SD	6.07	1.56	1.44
3	E	2473	OMT	OD2-SD	6.05	1.56	1.44
5	A	2475	AKG	O5-C2	5.97	1.35	1.23
5	E	2475	AKG	O5-C2	5.96	1.35	1.23
5	C	2475	AKG	O5-C2	5.95	1.35	1.23
3	F	2473	OMT	OD2-SD	5.45	1.55	1.44
3	B	2473	OMT	OD2-SD	5.41	1.54	1.44
3	D	2473	OMT	OD2-SD	5.40	1.54	1.44
3	E	2473	OMT	OD1-SD	5.20	1.54	1.44
3	C	2473	OMT	OD1-SD	5.19	1.54	1.44
3	A	2473	OMT	OD1-SD	5.19	1.54	1.44
5	A	2475	AKG	O1-C1	4.99	1.34	1.22
5	E	2475	AKG	O1-C1	4.98	1.34	1.22
5	C	2475	AKG	O1-C1	4.96	1.34	1.22
5	A	2475	AKG	O3-C5	4.32	1.36	1.22
5	C	2475	AKG	O3-C5	4.32	1.36	1.22
5	E	2475	AKG	O3-C5	4.32	1.36	1.22
3	A	2473	OMT	O-C	4.29	1.34	1.22
3	E	2473	OMT	O-C	4.29	1.34	1.22
3	C	2473	OMT	O-C	4.29	1.34	1.22
5	D	2475	AKG	O3-C5	4.23	1.35	1.22
5	B	2475	AKG	O3-C5	4.22	1.35	1.22
5	F	2475	AKG	O3-C5	4.21	1.35	1.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	I	484	FAD	PA-O2A	-4.11	1.36	1.55
8	K	484	FAD	PA-O2A	-4.11	1.36	1.55
8	G	484	FAD	PA-O2A	-4.10	1.36	1.55
8	J	484	FAD	PA-O2A	-4.10	1.36	1.55
8	H	484	FAD	PA-O2A	-4.10	1.36	1.55
8	L	484	FAD	PA-O2A	-4.10	1.36	1.55
8	I	484	FAD	C4X-N5	3.45	1.38	1.30
8	K	484	FAD	C4X-N5	3.45	1.38	1.30
8	I	484	FAD	P-O2P	-3.44	1.39	1.55
8	K	484	FAD	P-O2P	-3.44	1.39	1.55
8	G	484	FAD	P-O2P	-3.43	1.39	1.55
8	J	484	FAD	P-O2P	-3.43	1.39	1.55
8	G	484	FAD	C4X-N5	3.43	1.38	1.30
8	J	484	FAD	C4X-N5	3.43	1.38	1.30
8	H	484	FAD	P-O2P	-3.43	1.39	1.55
8	L	484	FAD	P-O2P	-3.43	1.39	1.55
8	H	484	FAD	C4X-N5	3.42	1.38	1.30
8	L	484	FAD	C4X-N5	3.42	1.38	1.30
3	B	2473	OMT	O-C	3.41	1.32	1.22
3	D	2473	OMT	O-C	3.40	1.32	1.22
3	F	2473	OMT	O-C	3.40	1.32	1.22
8	H	484	FAD	C9A-N10	3.37	1.47	1.41
8	L	484	FAD	C9A-N10	3.37	1.47	1.41
8	G	484	FAD	C9A-N10	3.37	1.47	1.41
8	J	484	FAD	C9A-N10	3.37	1.47	1.41
8	I	484	FAD	C9A-N10	3.35	1.47	1.41
8	K	484	FAD	C9A-N10	3.35	1.47	1.41
4	B	2474	FMN	C10-N1	3.34	1.40	1.33
4	F	2474	FMN	C10-N1	3.34	1.40	1.33
4	D	2474	FMN	C10-N1	3.33	1.40	1.33
5	F	2475	AKG	C3-C2	3.20	1.54	1.51
5	D	2475	AKG	C3-C2	3.17	1.54	1.51
5	B	2475	AKG	C3-C2	3.16	1.54	1.51
8	G	484	FAD	C9A-C5X	3.09	1.46	1.41
8	J	484	FAD	C9A-C5X	3.09	1.46	1.41
8	I	484	FAD	C9A-C5X	3.09	1.46	1.41
8	K	484	FAD	C9A-C5X	3.09	1.46	1.41
8	H	484	FAD	C9A-C5X	3.08	1.46	1.41
8	L	484	FAD	C9A-C5X	3.08	1.46	1.41
8	H	484	FAD	C8-C7	3.05	1.48	1.40
8	L	484	FAD	C8-C7	3.05	1.48	1.40
4	F	2474	FMN	C9A-N10	-3.04	1.35	1.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	D	2474	FMN	C9A-N10	-3.04	1.35	1.41
8	I	484	FAD	C8-C7	3.04	1.48	1.40
8	K	484	FAD	C8-C7	3.04	1.48	1.40
8	G	484	FAD	C8-C7	3.04	1.48	1.40
8	J	484	FAD	C8-C7	3.04	1.48	1.40
4	B	2474	FMN	C9A-N10	-3.02	1.35	1.41
4	A	2474	FMN	C9A-C5A	-2.92	1.36	1.41
5	C	2475	AKG	C3-C2	2.92	1.54	1.51
4	C	2474	FMN	C9A-C5A	-2.92	1.36	1.41
4	E	2474	FMN	C9A-C5A	-2.92	1.36	1.41
5	E	2475	AKG	C3-C2	2.91	1.54	1.51
5	A	2475	AKG	C3-C2	2.89	1.54	1.51
8	G	484	FAD	O5'-C5'	2.88	1.55	1.44
8	J	484	FAD	O5'-C5'	2.88	1.55	1.44
8	I	484	FAD	O5'-C5'	2.88	1.55	1.44
8	K	484	FAD	O5'-C5'	2.88	1.55	1.44
8	H	484	FAD	O5'-C5'	2.87	1.55	1.44
8	L	484	FAD	O5'-C5'	2.87	1.55	1.44
4	E	2474	FMN	C4A-N5	2.81	1.36	1.30
4	A	2474	FMN	C4A-N5	2.81	1.36	1.30
4	C	2474	FMN	C4A-N5	2.81	1.36	1.30
4	E	2474	FMN	C10-N1	2.75	1.38	1.33
4	C	2474	FMN	C10-N1	2.74	1.38	1.33
4	A	2474	FMN	C10-N1	2.74	1.38	1.33
8	G	484	FAD	C6-C5X	2.63	1.44	1.40
8	J	484	FAD	C6-C5X	2.63	1.44	1.40
8	H	484	FAD	C6-C5X	2.62	1.44	1.40
8	L	484	FAD	C6-C5X	2.62	1.44	1.40
8	I	484	FAD	C6-C5X	2.60	1.43	1.40
8	K	484	FAD	C6-C5X	2.60	1.43	1.40
8	G	484	FAD	C9-C9A	2.58	1.43	1.39
8	J	484	FAD	C9-C9A	2.58	1.43	1.39
8	H	484	FAD	C4A-N3A	2.57	1.39	1.34
8	L	484	FAD	C4A-N3A	2.57	1.39	1.34
8	H	484	FAD	C9-C9A	2.56	1.43	1.39
8	L	484	FAD	C9-C9A	2.56	1.43	1.39
8	I	484	FAD	C9-C9A	2.56	1.43	1.39
8	K	484	FAD	C9-C9A	2.56	1.43	1.39
4	C	2474	FMN	O4'-C4'	-2.55	1.38	1.43
4	A	2474	FMN	O4'-C4'	-2.55	1.38	1.43
4	E	2474	FMN	O4'-C4'	-2.55	1.38	1.43
8	I	484	FAD	C4A-N3A	2.55	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	K	484	FAD	C4A-N3A	2.55	1.39	1.34
4	F	2474	FMN	C9A-C5A	-2.54	1.37	1.41
8	G	484	FAD	C4A-N3A	2.54	1.39	1.34
8	J	484	FAD	C4A-N3A	2.54	1.39	1.34
4	D	2474	FMN	C9A-C5A	-2.54	1.37	1.41
4	B	2474	FMN	C9A-C5A	-2.54	1.37	1.41
4	D	2474	FMN	C4A-N5	2.43	1.36	1.30
4	B	2474	FMN	C4A-N5	2.40	1.36	1.30
4	F	2474	FMN	C4A-N5	2.39	1.35	1.30
8	G	484	FAD	C10-N1	2.39	1.38	1.33
8	J	484	FAD	C10-N1	2.39	1.38	1.33
8	H	484	FAD	C10-N1	2.38	1.38	1.33
8	L	484	FAD	C10-N1	2.38	1.38	1.33
8	I	484	FAD	C10-N1	2.37	1.38	1.33
8	K	484	FAD	C10-N1	2.37	1.38	1.33
8	I	484	FAD	C5A-C6A	2.31	1.47	1.41
8	K	484	FAD	C5A-C6A	2.31	1.47	1.41
4	C	2474	FMN	C9A-N10	-2.30	1.37	1.41
8	H	484	FAD	C5A-C6A	2.30	1.47	1.41
8	L	484	FAD	C5A-C6A	2.30	1.47	1.41
8	H	484	FAD	O4B-C4B	2.30	1.50	1.45
8	L	484	FAD	O4B-C4B	2.30	1.50	1.45
8	G	484	FAD	C5A-C6A	2.30	1.47	1.41
8	J	484	FAD	C5A-C6A	2.30	1.47	1.41
4	A	2474	FMN	C9A-N10	-2.30	1.37	1.41
4	E	2474	FMN	C9A-N10	-2.30	1.37	1.41
8	I	484	FAD	O4B-C4B	2.28	1.50	1.45
8	K	484	FAD	O4B-C4B	2.28	1.50	1.45
8	G	484	FAD	O4B-C4B	2.27	1.50	1.45
8	J	484	FAD	O4B-C4B	2.27	1.50	1.45
8	I	484	FAD	C5A-C4A	2.21	1.43	1.39
8	K	484	FAD	C5A-C4A	2.21	1.43	1.39
8	G	484	FAD	C5A-C4A	2.20	1.43	1.39
8	J	484	FAD	C5A-C4A	2.20	1.43	1.39
8	I	484	FAD	C9-C8	2.18	1.42	1.39
8	K	484	FAD	C9-C8	2.18	1.42	1.39
8	H	484	FAD	C5A-C4A	2.17	1.43	1.39
8	L	484	FAD	C5A-C4A	2.17	1.43	1.39
8	H	484	FAD	C9-C8	2.17	1.42	1.39
8	L	484	FAD	C9-C8	2.17	1.42	1.39
8	H	484	FAD	C2A-N1A	2.17	1.37	1.33
8	L	484	FAD	C2A-N1A	2.17	1.37	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	G	484	FAD	C2A-N1A	2.17	1.37	1.33
8	J	484	FAD	C2A-N1A	2.17	1.37	1.33
8	I	484	FAD	C2A-N1A	2.17	1.37	1.33
8	K	484	FAD	C2A-N1A	2.17	1.37	1.33
8	G	484	FAD	C9-C8	2.14	1.42	1.39
8	J	484	FAD	C9-C8	2.14	1.42	1.39
8	G	484	FAD	C3B-C4B	2.09	1.58	1.53
8	J	484	FAD	C3B-C4B	2.09	1.58	1.53
8	H	484	FAD	C3B-C4B	2.09	1.58	1.53
8	L	484	FAD	C3B-C4B	2.09	1.58	1.53
8	I	484	FAD	C3B-C4B	2.08	1.58	1.53
8	K	484	FAD	C3B-C4B	2.08	1.58	1.53
8	H	484	FAD	C2-N3	2.06	1.43	1.39
8	L	484	FAD	C2-N3	2.06	1.43	1.39
8	G	484	FAD	C2-N3	2.06	1.43	1.39
8	J	484	FAD	C2-N3	2.06	1.43	1.39
8	I	484	FAD	C2-N3	2.06	1.43	1.39
8	K	484	FAD	C2-N3	2.06	1.43	1.39
8	I	484	FAD	C5B-C4B	2.04	1.57	1.51
8	K	484	FAD	C5B-C4B	2.04	1.57	1.51
8	G	484	FAD	C5B-C4B	2.04	1.57	1.51
8	J	484	FAD	C5B-C4B	2.04	1.57	1.51
8	H	484	FAD	PA-O5B	-2.02	1.51	1.59
8	L	484	FAD	PA-O5B	-2.02	1.51	1.59
8	H	484	FAD	C5B-C4B	2.02	1.57	1.51
8	L	484	FAD	C5B-C4B	2.02	1.57	1.51
8	G	484	FAD	PA-O5B	-2.02	1.51	1.59
8	J	484	FAD	PA-O5B	-2.02	1.51	1.59
8	I	484	FAD	PA-O5B	-2.02	1.51	1.59
8	K	484	FAD	PA-O5B	-2.02	1.51	1.59
8	G	484	FAD	P-O5'	-2.01	1.51	1.59
8	J	484	FAD	P-O5'	-2.01	1.51	1.59
8	I	484	FAD	P-O5'	-2.01	1.51	1.59
8	K	484	FAD	P-O5'	-2.01	1.51	1.59
8	G	484	FAD	O4B-C1B	2.00	1.46	1.42
8	J	484	FAD	O4B-C1B	2.00	1.46	1.42

All (221) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	D	2473	OMT	OD2-SD-CG	-16.16	96.68	108.33
3	F	2473	OMT	OD2-SD-CG	-16.14	96.69	108.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	B	2473	OMT	OD2-SD-CG	-16.12	96.70	108.33
3	C	2473	OMT	OD2-SD-CE	-12.54	97.22	108.87
3	A	2473	OMT	OD2-SD-CE	-12.51	97.24	108.87
3	E	2473	OMT	OD2-SD-CE	-12.49	97.26	108.87
4	D	2474	FMN	C4'-C3'-C2'	-8.94	98.68	113.57
4	B	2474	FMN	C4'-C3'-C2'	-8.94	98.69	113.57
4	F	2474	FMN	C4'-C3'-C2'	-8.93	98.70	113.57
8	G	484	FAD	O3P-PA-O1A	-8.61	84.81	110.70
8	J	484	FAD	O3P-PA-O1A	-8.61	84.81	110.70
8	I	484	FAD	O3P-PA-O1A	-8.61	84.81	110.70
8	K	484	FAD	O3P-PA-O1A	-8.61	84.81	110.70
8	H	484	FAD	O3P-PA-O1A	-8.61	84.82	110.70
8	L	484	FAD	O3P-PA-O1A	-8.61	84.82	110.70
4	C	2474	FMN	O5'-P-O1P	-8.15	84.42	106.44
4	A	2474	FMN	O5'-P-O1P	-8.14	84.44	106.44
4	E	2474	FMN	O5'-P-O1P	-8.13	84.46	106.44
5	F	2475	AKG	C4-C3-C2	-7.64	98.58	112.91
5	B	2475	AKG	C4-C3-C2	-7.63	98.59	112.91
5	D	2475	AKG	C4-C3-C2	-7.62	98.61	112.91
5	A	2475	AKG	C4-C3-C2	-7.22	99.36	112.91
5	C	2475	AKG	C4-C3-C2	-7.22	99.36	112.91
5	E	2475	AKG	C4-C3-C2	-7.21	99.37	112.91
3	F	2473	OMT	OD1-SD-CE	-6.89	102.46	108.87
3	B	2473	OMT	OD1-SD-CE	-6.89	102.47	108.87
8	H	484	FAD	O2A-PA-O3P	-6.88	88.67	107.27
8	L	484	FAD	O2A-PA-O3P	-6.88	88.67	107.27
8	G	484	FAD	O2A-PA-O3P	-6.88	88.68	107.27
8	J	484	FAD	O2A-PA-O3P	-6.88	88.68	107.27
8	I	484	FAD	O2A-PA-O3P	-6.88	88.69	107.27
8	K	484	FAD	O2A-PA-O3P	-6.88	88.69	107.27
3	D	2473	OMT	OD1-SD-CE	-6.87	102.49	108.87
4	F	2474	FMN	O4'-C4'-C3'	-6.79	93.36	109.25
4	D	2474	FMN	O4'-C4'-C3'	-6.79	93.37	109.25
4	B	2474	FMN	O4'-C4'-C3'	-6.78	93.37	109.25
4	E	2474	FMN	O4'-C4'-C5'	-6.40	95.87	109.99
4	C	2474	FMN	O4'-C4'-C5'	-6.40	95.87	109.99
4	A	2474	FMN	O4'-C4'-C5'	-6.40	95.87	109.99
3	C	2473	OMT	CE-SD-CG	6.04	127.72	105.28
3	A	2473	OMT	CE-SD-CG	6.04	127.72	105.28
3	E	2473	OMT	CE-SD-CG	6.03	127.70	105.28
4	A	2474	FMN	O4'-C4'-C3'	-5.93	95.37	109.25
4	C	2474	FMN	O4'-C4'-C3'	-5.93	95.38	109.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	E	2474	FMN	O4'-C4'-C3'	-5.93	95.38	109.25
4	C	2474	FMN	O3P-P-O5'	5.61	121.29	106.67
4	A	2474	FMN	O3P-P-O5'	5.60	121.26	106.67
4	E	2474	FMN	O3P-P-O5'	5.59	121.24	106.67
4	E	2474	FMN	O2P-P-O5'	5.22	120.27	106.67
4	C	2474	FMN	O2P-P-O5'	5.21	120.25	106.67
4	A	2474	FMN	O2P-P-O5'	5.21	120.24	106.67
3	F	2473	OMT	OD1-SD-CG	4.97	111.91	108.33
3	B	2473	OMT	OD1-SD-CG	4.95	111.90	108.33
3	D	2473	OMT	OD1-SD-CG	4.91	111.87	108.33
4	D	2474	FMN	C5'-C4'-C3'	4.83	121.32	112.22
4	C	2474	FMN	C4'-C3'-C2'	-4.82	105.54	113.57
4	E	2474	FMN	C4'-C3'-C2'	-4.82	105.54	113.57
4	B	2474	FMN	C5'-C4'-C3'	4.82	121.31	112.22
4	A	2474	FMN	C4'-C3'-C2'	-4.82	105.56	113.57
4	F	2474	FMN	C5'-C4'-C3'	4.81	121.30	112.22
4	B	2474	FMN	C1'-N10-C9A	-4.30	112.27	120.63
4	D	2474	FMN	C1'-N10-C9A	-4.29	112.30	120.63
4	F	2474	FMN	C1'-N10-C9A	-4.28	112.31	120.63
5	A	2475	AKG	O1-C1-C2	4.18	127.01	121.81
5	C	2475	AKG	O1-C1-C2	4.17	127.00	121.81
4	F	2474	FMN	C4-N3-C2	-4.15	118.26	125.64
5	E	2475	AKG	O1-C1-C2	4.15	126.98	121.81
4	B	2474	FMN	C4-N3-C2	-4.14	118.30	125.64
4	E	2474	FMN	C9A-C5A-N5	-4.13	118.07	122.45
4	D	2474	FMN	C4-N3-C2	-4.13	118.31	125.64
4	A	2474	FMN	C9A-C5A-N5	-4.12	118.09	122.45
4	C	2474	FMN	C9A-C5A-N5	-4.10	118.11	122.45
3	A	2473	OMT	OD2-SD-CG	-4.05	105.41	108.33
3	E	2473	OMT	OD2-SD-CG	-4.04	105.42	108.33
3	C	2473	OMT	OD2-SD-CG	-4.01	105.44	108.33
4	C	2474	FMN	C4-N3-C2	-3.96	118.60	125.64
4	E	2474	FMN	C4-N3-C2	-3.96	118.61	125.64
4	A	2474	FMN	C4-N3-C2	-3.96	118.61	125.64
4	D	2474	FMN	C8M-C8-C9	3.88	126.41	119.57
4	D	2474	FMN	C4-C4A-C10	3.88	123.59	116.93
4	B	2474	FMN	C8M-C8-C9	3.88	126.41	119.57
4	F	2474	FMN	C8M-C8-C9	3.88	126.41	119.57
4	B	2474	FMN	C4-C4A-C10	3.87	123.58	116.93
4	F	2474	FMN	C4-C4A-C10	3.87	123.57	116.93
4	E	2474	FMN	O3P-P-O1P	-3.83	95.93	110.83
4	A	2474	FMN	O3P-P-O1P	-3.82	95.96	110.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	C	2474	FMN	O3P-P-O1P	-3.81	95.97	110.83
3	E	2473	OMT	OD2-SD-OD1	-3.75	110.18	117.22
3	A	2473	OMT	OD2-SD-OD1	-3.75	110.18	117.22
3	C	2473	OMT	OD2-SD-OD1	-3.75	110.19	117.22
8	H	484	FAD	O2A-PA-O1A	3.72	129.73	112.44
8	L	484	FAD	O2A-PA-O1A	3.72	129.73	112.44
8	I	484	FAD	O2A-PA-O1A	3.72	129.73	112.44
8	K	484	FAD	O2A-PA-O1A	3.72	129.73	112.44
8	G	484	FAD	O2A-PA-O1A	3.71	129.72	112.44
8	J	484	FAD	O2A-PA-O1A	3.71	129.72	112.44
4	D	2474	FMN	O3P-P-O2P	-3.68	94.00	107.80
4	B	2474	FMN	O3P-P-O2P	-3.68	94.00	107.80
4	F	2474	FMN	O3P-P-O2P	-3.68	94.00	107.80
4	E	2474	FMN	O2-C2-N3	-3.64	111.61	118.58
5	E	2475	AKG	C3-C2-C1	3.63	122.03	115.86
5	A	2475	AKG	C3-C2-C1	3.63	122.02	115.86
4	C	2474	FMN	O2-C2-N3	-3.63	111.63	118.58
4	A	2474	FMN	O2-C2-N3	-3.62	111.63	118.58
5	C	2475	AKG	C3-C2-C1	3.62	122.02	115.86
4	B	2474	FMN	O2-C2-N3	-3.56	111.75	118.58
4	F	2474	FMN	O2-C2-N3	-3.55	111.78	118.58
4	D	2474	FMN	O2-C2-N3	-3.55	111.78	118.58
3	F	2473	OMT	CE-SD-CG	3.44	118.08	105.28
3	D	2473	OMT	CE-SD-CG	3.44	118.07	105.28
3	B	2473	OMT	CE-SD-CG	3.44	118.06	105.28
3	E	2473	OMT	OD1-SD-CE	-3.43	105.69	108.87
3	C	2473	OMT	OD1-SD-CE	-3.43	105.69	108.87
3	A	2473	OMT	OD1-SD-CE	-3.42	105.70	108.87
4	D	2474	FMN	C8M-C8-C7	-3.32	113.97	120.76
4	F	2474	FMN	C8M-C8-C7	-3.32	113.98	120.76
4	B	2474	FMN	C8M-C8-C7	-3.32	113.98	120.76
4	A	2474	FMN	C4-C4A-C10	3.28	122.56	116.93
4	C	2474	FMN	C4-C4A-C10	3.28	122.55	116.93
4	E	2474	FMN	C4-C4A-C10	3.27	122.55	116.93
3	F	2473	OMT	CB-CA-N	3.24	118.57	110.12
3	B	2473	OMT	CB-CA-N	3.23	118.55	110.12
3	D	2473	OMT	CB-CA-N	3.23	118.55	110.12
4	A	2474	FMN	C5A-C9A-N10	3.18	120.84	117.97
4	C	2474	FMN	C5A-C9A-N10	3.18	120.84	117.97
4	E	2474	FMN	C5A-C9A-N10	3.18	120.84	117.97
4	D	2474	FMN	O3P-P-O5'	3.07	114.67	106.67
4	B	2474	FMN	O3P-P-O5'	3.06	114.66	106.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	F	2474	FMN	O3P-P-O5'	3.06	114.66	106.67
4	D	2474	FMN	O2P-P-O5'	3.02	114.55	106.67
4	F	2474	FMN	O2P-P-O5'	3.01	114.52	106.67
4	B	2474	FMN	O2P-P-O5'	3.01	114.52	106.67
5	D	2475	AKG	C3-C2-C1	2.97	120.90	115.86
5	F	2475	AKG	C3-C2-C1	2.95	120.87	115.86
5	B	2475	AKG	C3-C2-C1	2.95	120.87	115.86
8	H	484	FAD	O4B-C1B-N9A	-2.87	102.59	108.09
8	L	484	FAD	O4B-C1B-N9A	-2.87	102.59	108.09
3	A	2473	OMT	CB-CA-N	2.86	117.58	110.12
3	E	2473	OMT	CB-CA-N	2.86	117.57	110.12
5	C	2475	AKG	O5-C2-C1	-2.86	115.59	119.67
3	C	2473	OMT	CB-CA-N	2.86	117.56	110.12
5	A	2475	AKG	O5-C2-C1	-2.86	115.59	119.67
8	G	484	FAD	O4B-C1B-N9A	-2.85	102.61	108.09
8	J	484	FAD	O4B-C1B-N9A	-2.85	102.61	108.09
5	E	2475	AKG	O5-C2-C1	-2.85	115.60	119.67
8	I	484	FAD	O4B-C1B-N9A	-2.84	102.63	108.09
8	K	484	FAD	O4B-C1B-N9A	-2.84	102.63	108.09
4	B	2474	FMN	C9A-C5A-N5	-2.74	119.55	122.45
4	D	2474	FMN	C9A-C5A-N5	-2.74	119.55	122.45
4	F	2474	FMN	C9A-C5A-N5	-2.74	119.55	122.45
4	C	2474	FMN	N3-C2-N1	2.70	125.23	119.50
4	E	2474	FMN	N3-C2-N1	2.70	125.23	119.50
4	E	2474	FMN	C1'-N10-C9A	-2.70	115.39	120.63
4	A	2474	FMN	N3-C2-N1	2.69	125.22	119.50
4	C	2474	FMN	C1'-N10-C9A	-2.69	115.40	120.63
4	A	2474	FMN	C1'-N10-C9A	-2.69	115.41	120.63
4	B	2474	FMN	C4A-C10-N1	-2.68	118.02	124.59
4	D	2474	FMN	C4A-C10-N1	-2.68	118.02	124.59
4	F	2474	FMN	C4A-C10-N1	-2.67	118.03	124.59
8	I	484	FAD	C5'-C4'-C3'	-2.66	107.20	112.22
8	K	484	FAD	C5'-C4'-C3'	-2.66	107.20	112.22
8	I	484	FAD	C2A-N1A-C6A	2.66	123.10	118.73
8	K	484	FAD	C2A-N1A-C6A	2.66	123.10	118.73
8	G	484	FAD	C5'-C4'-C3'	-2.66	107.21	112.22
8	J	484	FAD	C5'-C4'-C3'	-2.66	107.21	112.22
8	H	484	FAD	C2A-N1A-C6A	2.66	123.09	118.73
8	L	484	FAD	C2A-N1A-C6A	2.66	123.09	118.73
8	G	484	FAD	C2A-N1A-C6A	2.65	123.09	118.73
8	J	484	FAD	C2A-N1A-C6A	2.65	123.09	118.73
8	H	484	FAD	C5'-C4'-C3'	-2.64	107.23	112.22

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	L	484	FAD	C5'-C4'-C3'	-2.64	107.23	112.22
5	B	2475	AKG	C3-C4-C5	2.47	120.22	113.67
5	D	2475	AKG	C3-C4-C5	2.47	120.21	113.67
5	F	2475	AKG	C3-C4-C5	2.47	120.21	113.67
4	F	2474	FMN	N3-C2-N1	2.41	124.63	119.50
4	B	2474	FMN	N3-C2-N1	2.41	124.63	119.50
4	D	2474	FMN	N3-C2-N1	2.41	124.61	119.50
4	E	2474	FMN	C5A-N5-C4A	2.34	121.87	118.09
4	A	2474	FMN	C5A-N5-C4A	2.33	121.86	118.09
4	C	2474	FMN	C5A-N5-C4A	2.33	121.86	118.09
8	H	484	FAD	C5X-C9A-N10	-2.30	115.89	117.97
8	L	484	FAD	C5X-C9A-N10	-2.30	115.89	117.97
5	D	2475	AKG	O3-C5-C4	-2.30	115.80	123.09
4	A	2474	FMN	C10-C4A-N5	-2.30	120.11	124.81
8	G	484	FAD	C5X-C9A-N10	-2.30	115.89	117.97
8	J	484	FAD	C5X-C9A-N10	-2.30	115.89	117.97
5	B	2475	AKG	O3-C5-C4	-2.30	115.81	123.09
4	E	2474	FMN	C10-C4A-N5	-2.29	120.13	124.81
4	C	2474	FMN	C10-C4A-N5	-2.29	120.13	124.81
5	F	2475	AKG	O3-C5-C4	-2.29	115.84	123.09
8	I	484	FAD	C5X-C9A-N10	-2.28	115.91	117.97
8	K	484	FAD	C5X-C9A-N10	-2.28	115.91	117.97
8	I	484	FAD	C4-N3-C2	-2.22	121.70	125.64
8	K	484	FAD	C4-N3-C2	-2.22	121.70	125.64
4	A	2474	FMN	O3P-P-O2P	2.22	116.11	107.80
8	G	484	FAD	C4-N3-C2	-2.22	121.71	125.64
8	J	484	FAD	C4-N3-C2	-2.22	121.71	125.64
4	E	2474	FMN	O3P-P-O2P	2.21	116.10	107.80
4	C	2474	FMN	O3P-P-O2P	2.21	116.08	107.80
8	H	484	FAD	C4-N3-C2	-2.20	121.73	125.64
8	L	484	FAD	C4-N3-C2	-2.20	121.73	125.64
4	D	2474	FMN	C10-C4A-N5	-2.18	120.35	124.81
4	B	2474	FMN	C10-C4A-N5	-2.16	120.39	124.81
4	F	2474	FMN	C10-C4A-N5	-2.15	120.42	124.81
4	A	2474	FMN	C5'-C4'-C3'	2.14	116.25	112.22
4	C	2474	FMN	C5'-C4'-C3'	2.13	116.24	112.22
4	E	2474	FMN	C5'-C4'-C3'	2.12	116.22	112.22
4	F	2474	FMN	O2'-C2'-C3'	2.11	114.18	109.25
4	B	2474	FMN	O2'-C2'-C3'	2.10	114.17	109.25
4	D	2474	FMN	O2'-C2'-C3'	2.10	114.15	109.25
4	F	2474	FMN	C4A-C4-N3	2.06	118.49	113.25
4	B	2474	FMN	C4A-C4-N3	2.05	118.46	113.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	D	2474	FMN	C4A-C4-N3	2.05	118.46	113.25
4	B	2474	FMN	C7M-C7-C6	2.03	123.14	119.57
4	F	2474	FMN	C7M-C7-C6	2.02	123.13	119.57
4	E	2474	FMN	C7M-C7-C8	-2.02	116.64	120.76
4	D	2474	FMN	C7M-C7-C6	2.01	123.12	119.57
4	C	2474	FMN	C7M-C7-C8	-2.01	116.65	120.76
4	B	2474	FMN	N10-C10-N1	2.01	124.44	118.51
4	F	2474	FMN	N10-C10-N1	2.01	124.44	118.51
4	D	2474	FMN	N10-C10-N1	2.01	124.43	118.51

There are no chirality outliers.

All (93) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
3	A	2473	OMT	C-CA-CB-CG
3	A	2473	OMT	CB-CG-SD-OD1
3	A	2473	OMT	CB-CG-SD-OD2
3	B	2473	OMT	N-CA-CB-CG
3	B	2473	OMT	C-CA-CB-CG
3	B	2473	OMT	CB-CG-SD-OD1
3	B	2473	OMT	CB-CG-SD-OD2
3	C	2473	OMT	C-CA-CB-CG
3	C	2473	OMT	CB-CG-SD-OD1
3	C	2473	OMT	CB-CG-SD-OD2
3	D	2473	OMT	N-CA-CB-CG
3	D	2473	OMT	C-CA-CB-CG
3	D	2473	OMT	CB-CG-SD-OD1
3	D	2473	OMT	CB-CG-SD-OD2
3	E	2473	OMT	C-CA-CB-CG
3	E	2473	OMT	CB-CG-SD-OD1
3	E	2473	OMT	CB-CG-SD-OD2
3	F	2473	OMT	N-CA-CB-CG
3	F	2473	OMT	C-CA-CB-CG
3	F	2473	OMT	CB-CG-SD-OD1
3	F	2473	OMT	CB-CG-SD-OD2
4	A	2474	FMN	O4'-C4'-C5'-O5'
4	A	2474	FMN	C5'-O5'-P-O1P
4	A	2474	FMN	C5'-O5'-P-O3P
4	B	2474	FMN	C2'-C3'-C4'-O4'
4	B	2474	FMN	O3'-C3'-C4'-O4'
4	C	2474	FMN	O4'-C4'-C5'-O5'
4	C	2474	FMN	C5'-O5'-P-O1P

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Mol	Chain	Res	Type	Atoms
4	C	2474	FMN	C5'-O5'-P-O3P
4	D	2474	FMN	C2'-C3'-C4'-O4'
4	D	2474	FMN	O3'-C3'-C4'-O4'
4	E	2474	FMN	O4'-C4'-C5'-O5'
4	E	2474	FMN	C5'-O5'-P-O1P
4	E	2474	FMN	C5'-O5'-P-O3P
4	F	2474	FMN	C2'-C3'-C4'-O4'
4	F	2474	FMN	O3'-C3'-C4'-O4'
8	G	484	FAD	C5B-O5B-PA-O1A
8	G	484	FAD	PA-O3P-P-O5'
8	H	484	FAD	C5B-O5B-PA-O1A
8	H	484	FAD	PA-O3P-P-O5'
8	I	484	FAD	C5B-O5B-PA-O1A
8	I	484	FAD	PA-O3P-P-O5'
8	J	484	FAD	C5B-O5B-PA-O1A
8	J	484	FAD	PA-O3P-P-O5'
8	K	484	FAD	C5B-O5B-PA-O1A
8	K	484	FAD	PA-O3P-P-O5'
8	L	484	FAD	C5B-O5B-PA-O1A
8	L	484	FAD	PA-O3P-P-O5'
4	A	2474	FMN	C2'-C3'-C4'-O4'
4	C	2474	FMN	C2'-C3'-C4'-O4'
4	E	2474	FMN	C2'-C3'-C4'-O4'
4	A	2474	FMN	O3'-C3'-C4'-C5'
4	B	2474	FMN	O3'-C3'-C4'-C5'
4	C	2474	FMN	O3'-C3'-C4'-C5'
4	D	2474	FMN	O3'-C3'-C4'-C5'
4	E	2474	FMN	O3'-C3'-C4'-C5'
4	F	2474	FMN	O3'-C3'-C4'-C5'
4	A	2474	FMN	C2'-C3'-C4'-C5'
4	B	2474	FMN	C2'-C3'-C4'-C5'
4	C	2474	FMN	C2'-C3'-C4'-C5'
4	D	2474	FMN	C2'-C3'-C4'-C5'
4	E	2474	FMN	C2'-C3'-C4'-C5'
4	F	2474	FMN	C2'-C3'-C4'-C5'
4	A	2474	FMN	O3'-C3'-C4'-O4'
4	C	2474	FMN	O3'-C3'-C4'-O4'
4	E	2474	FMN	O3'-C3'-C4'-O4'
3	A	2473	OMT	CB-CG-SD-CE
3	C	2473	OMT	CB-CG-SD-CE
3	E	2473	OMT	CB-CG-SD-CE
8	G	484	FAD	C2B-C1B-N9A-C8A

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Mol	Chain	Res	Type	Atoms
8	H	484	FAD	C2B-C1B-N9A-C8A
8	J	484	FAD	C2B-C1B-N9A-C8A
8	L	484	FAD	C2B-C1B-N9A-C8A
8	I	484	FAD	C2B-C1B-N9A-C8A
8	K	484	FAD	C2B-C1B-N9A-C8A
3	B	2473	OMT	CB-CG-SD-CE
3	D	2473	OMT	CB-CG-SD-CE
3	F	2473	OMT	CB-CG-SD-CE
5	B	2475	AKG	C2-C3-C4-C5
5	D	2475	AKG	C2-C3-C4-C5
5	F	2475	AKG	C2-C3-C4-C5
5	A	2475	AKG	C3-C4-C5-O4
5	C	2475	AKG	C3-C4-C5-O4
5	E	2475	AKG	C3-C4-C5-O4
5	A	2475	AKG	C3-C4-C5-O3
5	C	2475	AKG	C3-C4-C5-O3
5	E	2475	AKG	C3-C4-C5-O3
8	G	484	FAD	P-O3P-PA-O2A
8	H	484	FAD	P-O3P-PA-O2A
8	I	484	FAD	P-O3P-PA-O2A
8	J	484	FAD	P-O3P-PA-O2A
8	K	484	FAD	P-O3P-PA-O2A
8	L	484	FAD	P-O3P-PA-O2A

There are no ring outliers.

39 monomers are involved in 198 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
6	C	2476	F3S	3	0
3	F	2473	OMT	2	0
4	C	2474	FMN	4	0
3	D	2473	OMT	2	0
6	F	2476	F3S	3	0
6	B	2476	F3S	3	0
7	H	483	SF4	2	0
4	B	2474	FMN	8	0
4	E	2474	FMN	5	0
8	I	484	FAD	17	0
3	A	2473	OMT	3	0
7	K	483	SF4	2	0
8	G	484	FAD	17	0
3	C	2473	OMT	3	0

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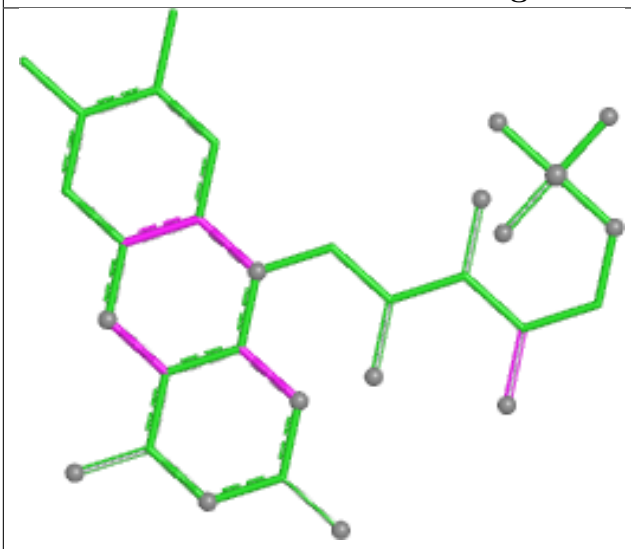
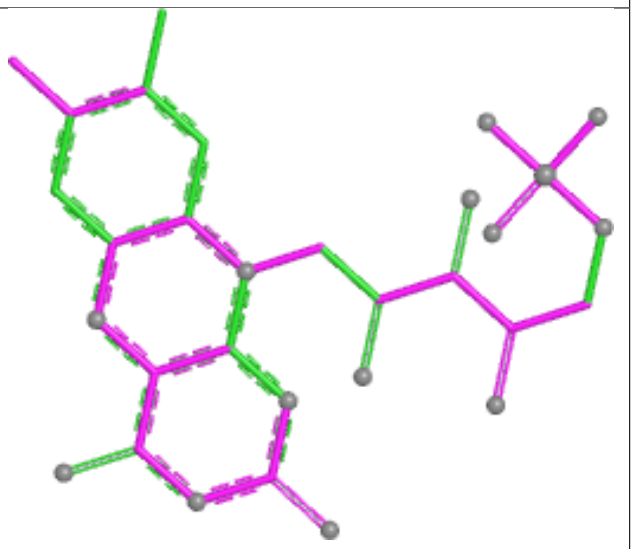
Mol	Chain	Res	Type	Clashes	Symm-Clashes
8	K	484	FAD	17	0
7	L	482	SF4	1	0
7	L	483	SF4	2	0
5	F	2475	AKG	2	0
4	F	2474	FMN	7	0
8	L	484	FAD	17	0
3	B	2473	OMT	2	0
5	D	2475	AKG	3	0
4	D	2474	FMN	8	0
6	A	2476	F3S	3	0
6	D	2476	F3S	3	0
7	J	483	SF4	2	0
6	E	2476	F3S	4	0
7	I	483	SF4	2	0
8	H	484	FAD	17	0
3	E	2473	OMT	3	0
7	I	482	SF4	1	0
7	G	483	SF4	2	0
5	B	2475	AKG	2	0
7	G	482	SF4	1	0
7	H	482	SF4	1	0
7	J	482	SF4	1	0
7	K	482	SF4	1	0
4	A	2474	FMN	5	0
8	J	484	FAD	17	0

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

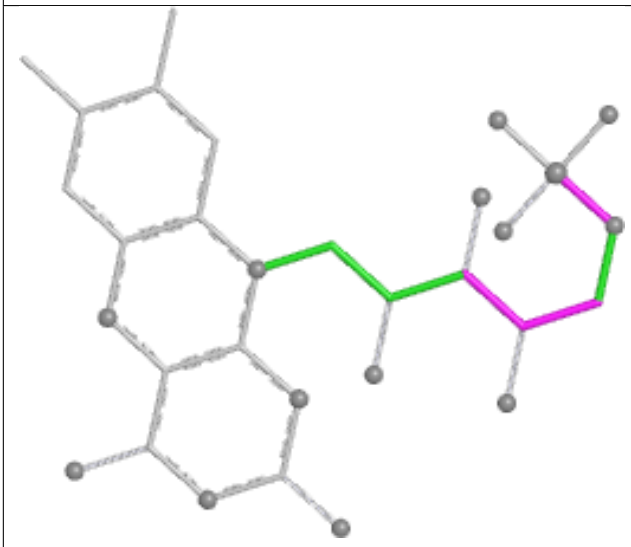
Ligand FMN C 2474



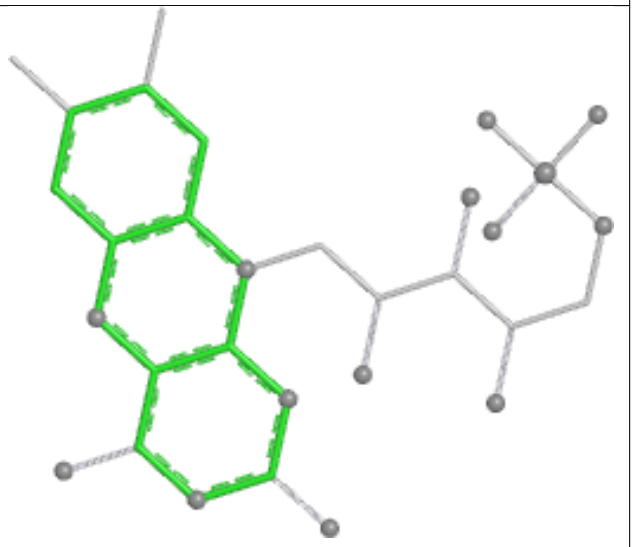
Bond lengths



Bond angles

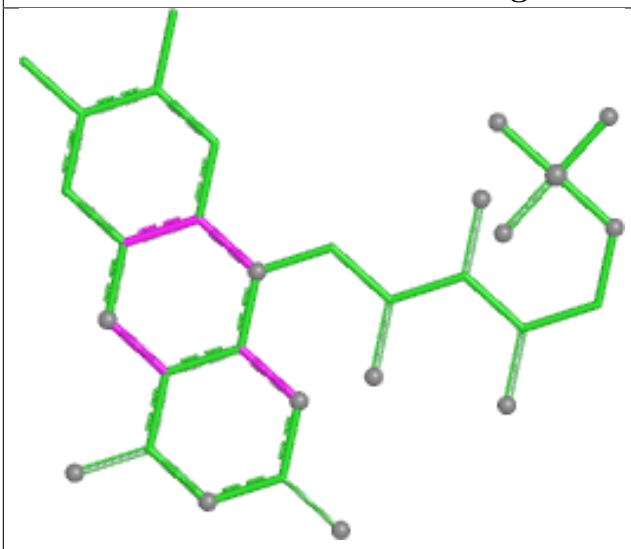


Torsions

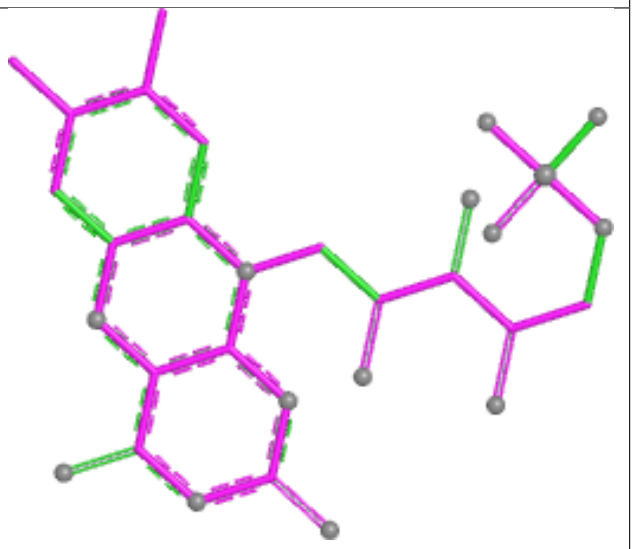


Rings

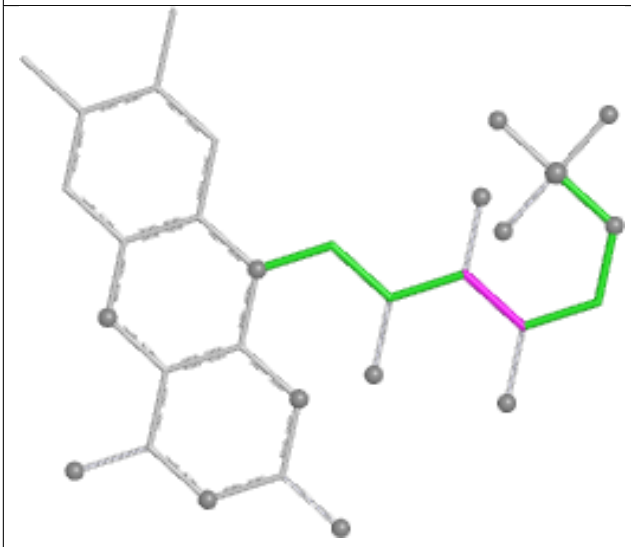
Ligand FMN B 2474



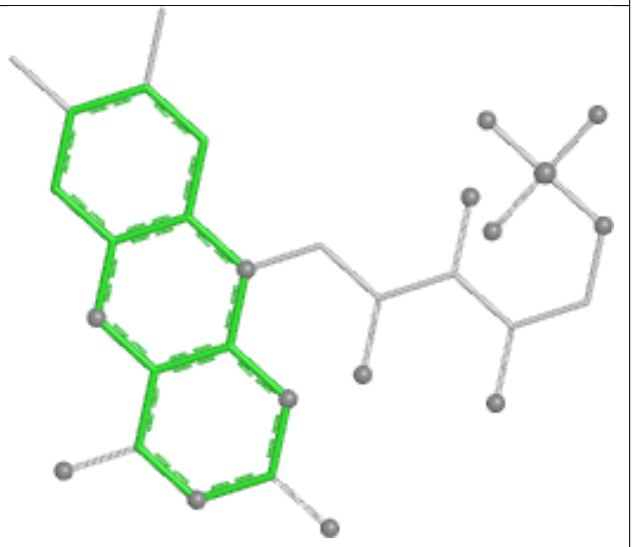
Bond lengths



Bond angles

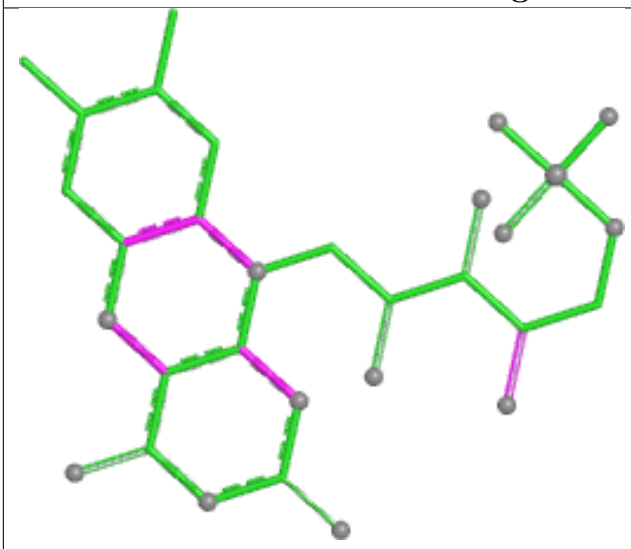


Torsions

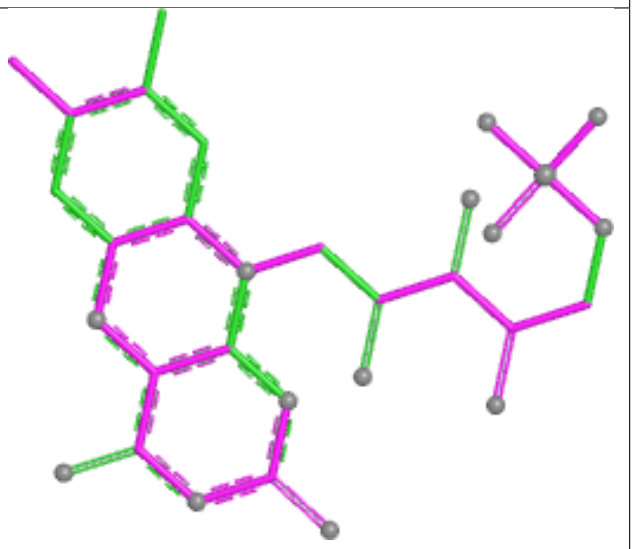


Rings

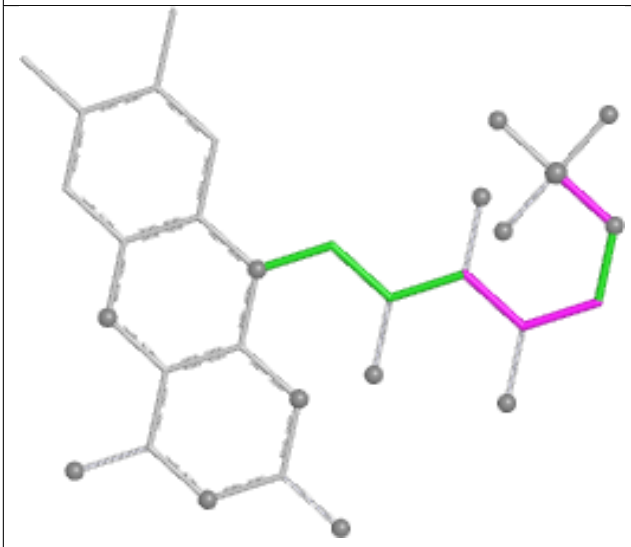
Ligand FMN E 2474



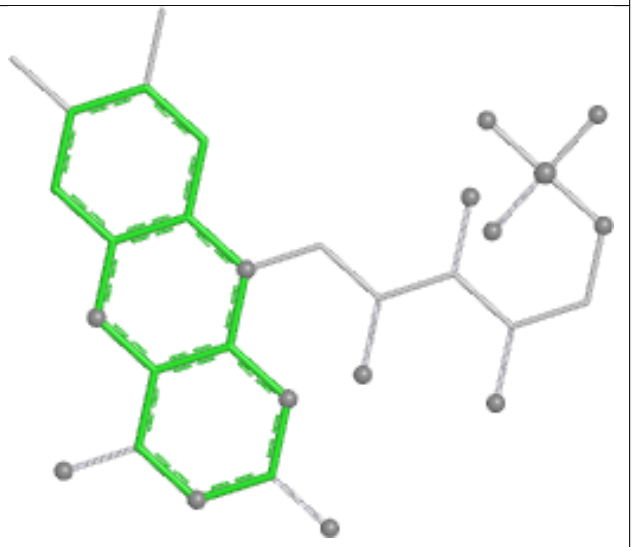
Bond lengths



Bond angles

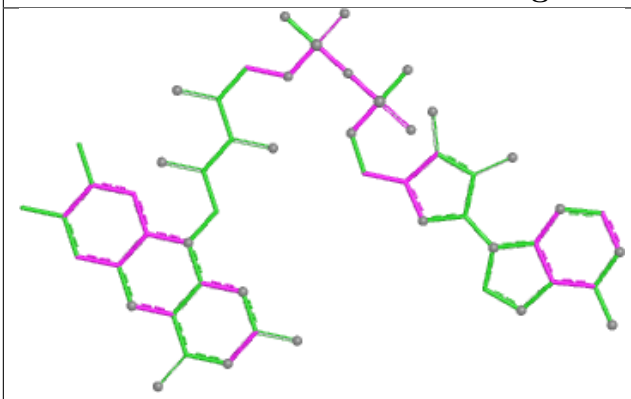


Torsions

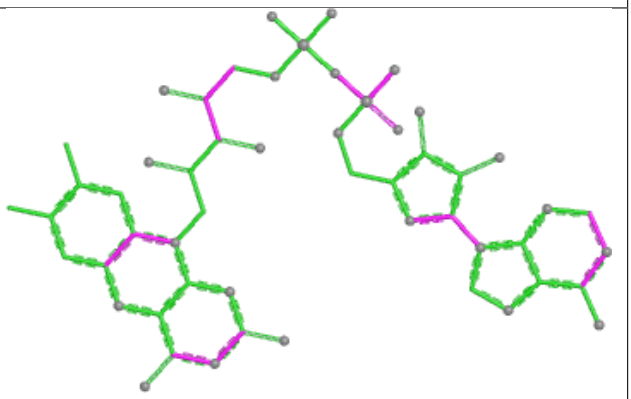


Rings

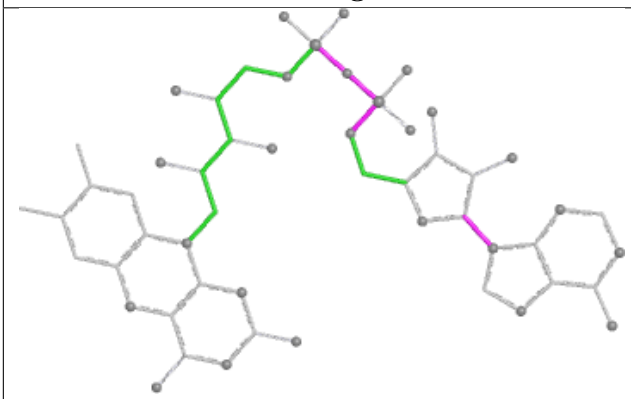
Ligand FAD I 484



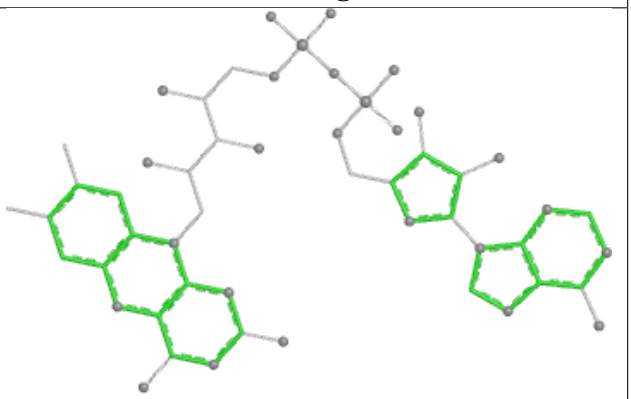
Bond lengths



Bond angles

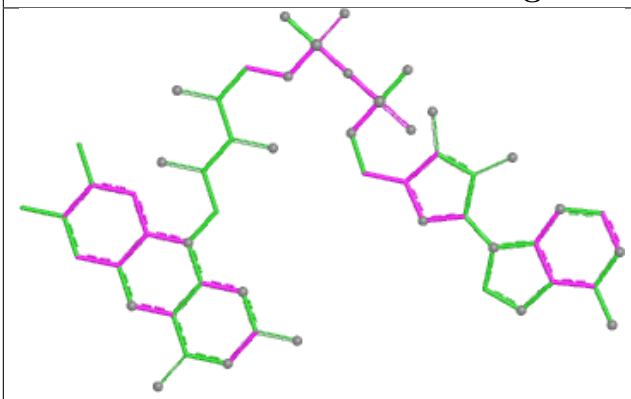


Torsions

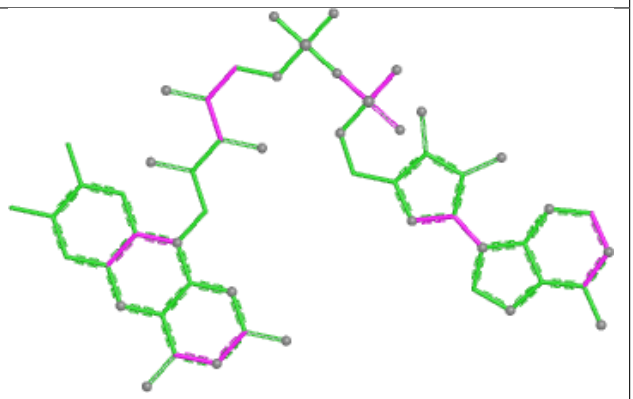


Rings

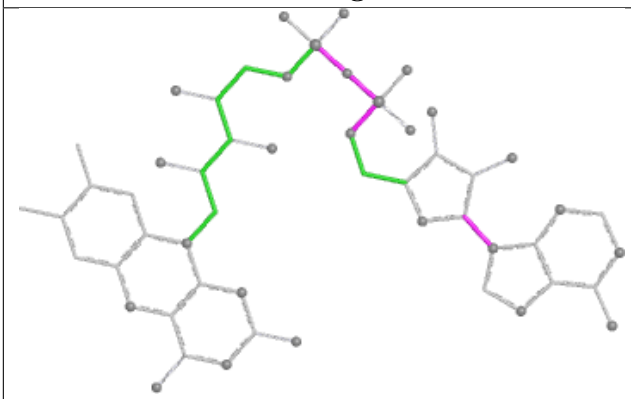
Ligand FAD G 484



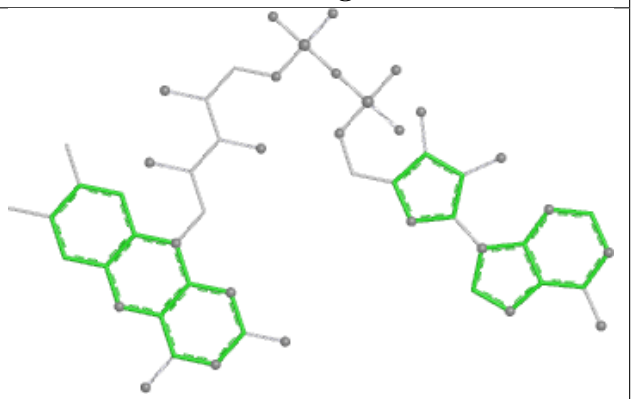
Bond lengths



Bond angles

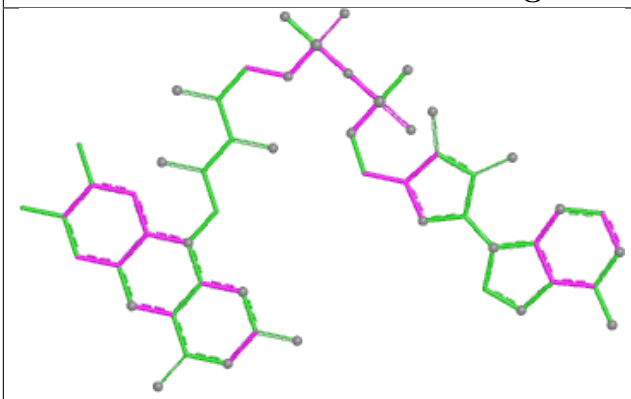


Torsions

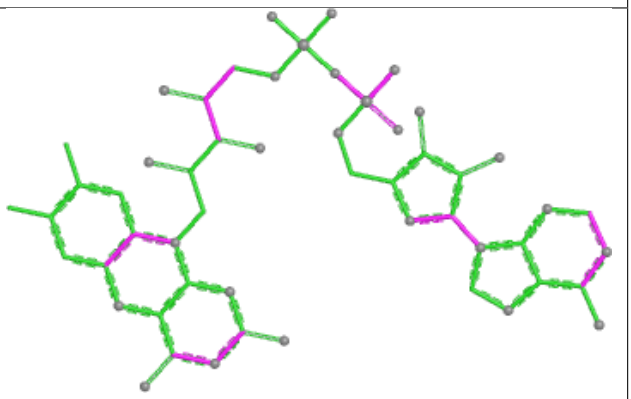


Rings

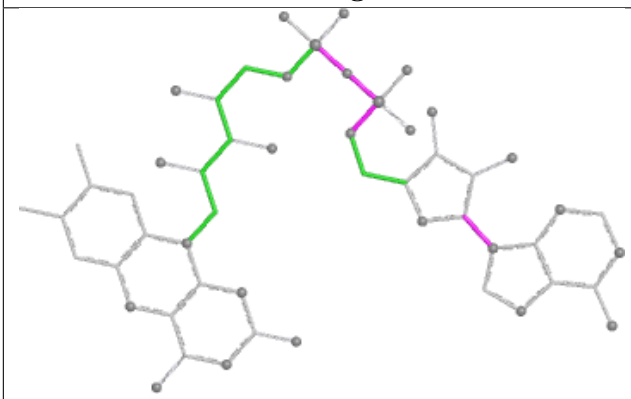
Ligand FAD K 484



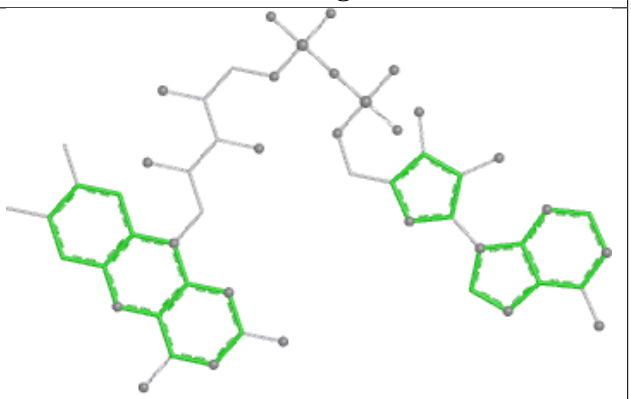
Bond lengths



Bond angles

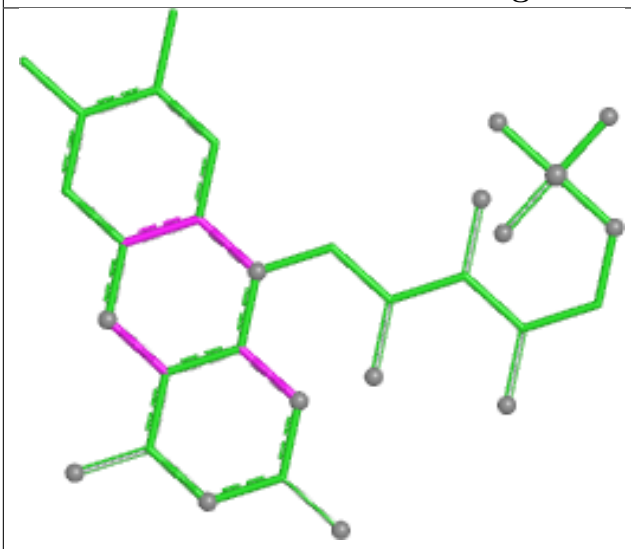


Torsions

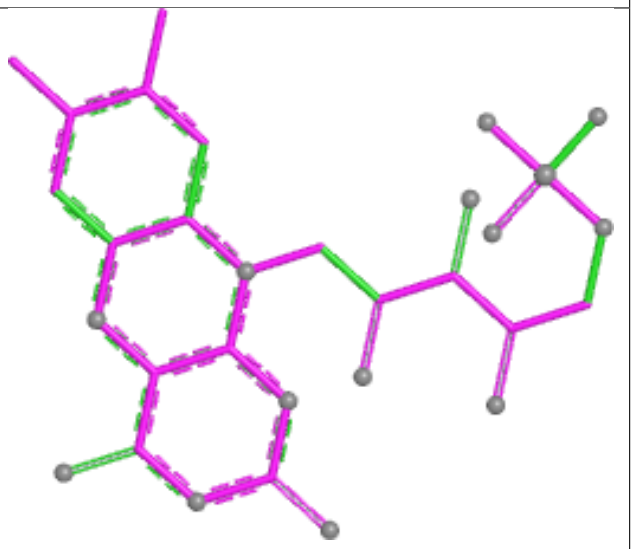


Rings

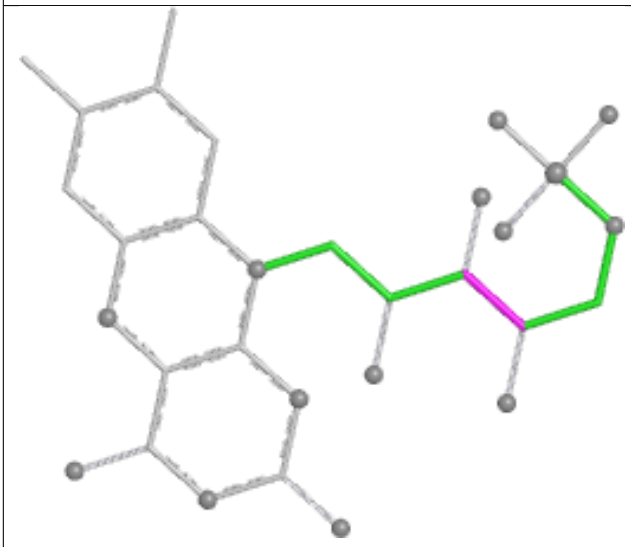
Ligand FMN F 2474



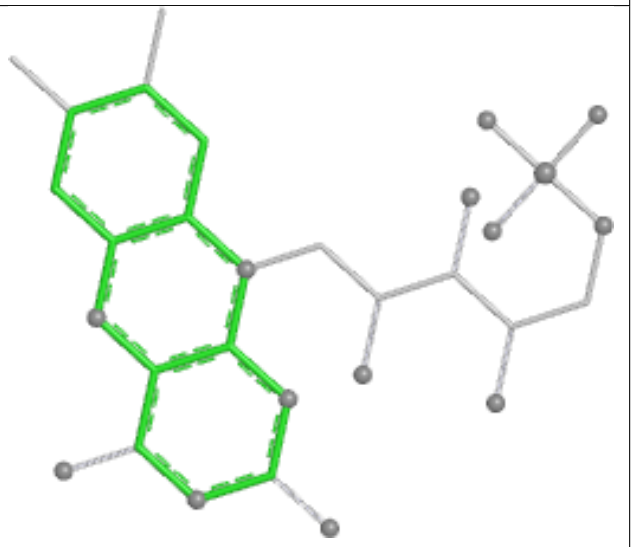
Bond lengths



Bond angles

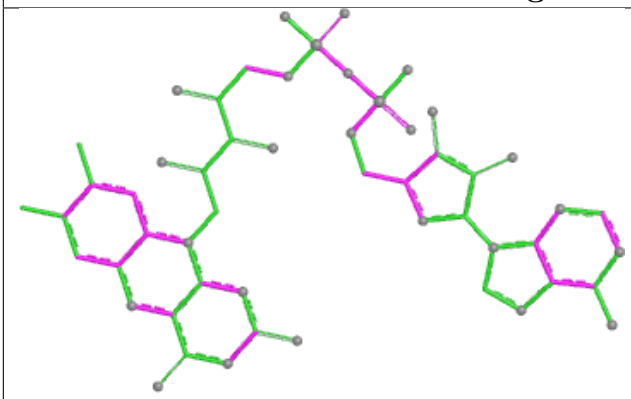


Torsions



Rings

Ligand FAD L 484



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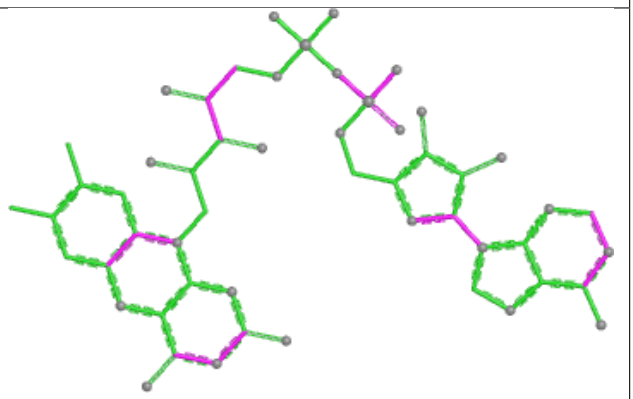
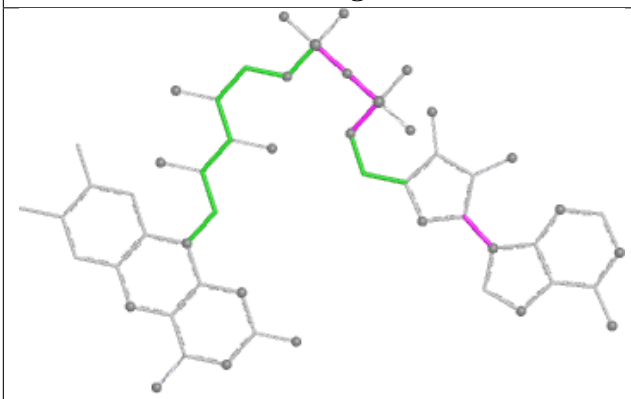
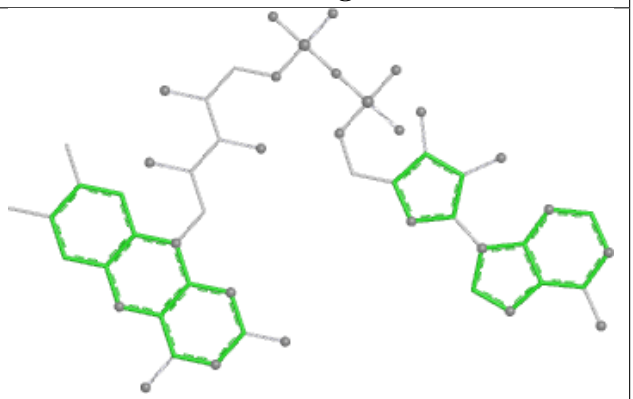


Bond angles

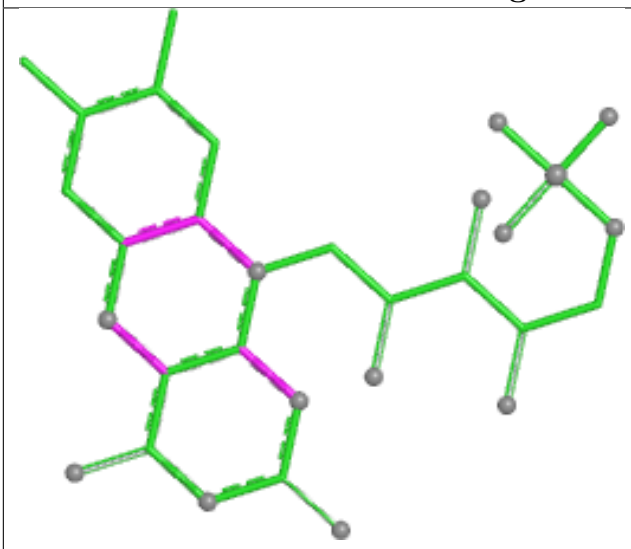


Torsions

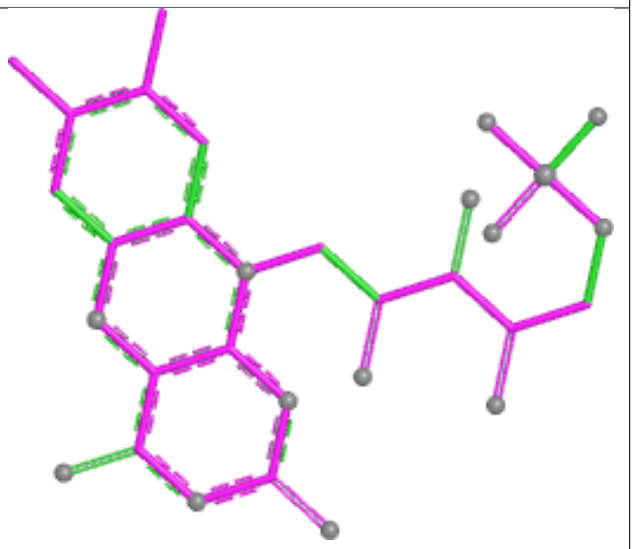


Rings

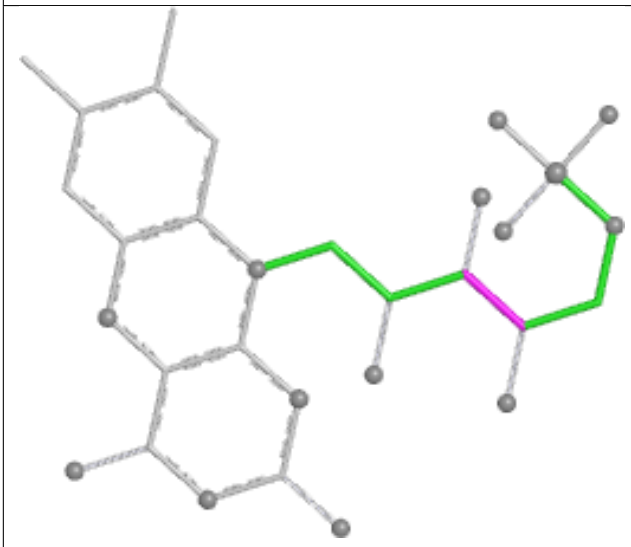
Ligand FMN D 2474



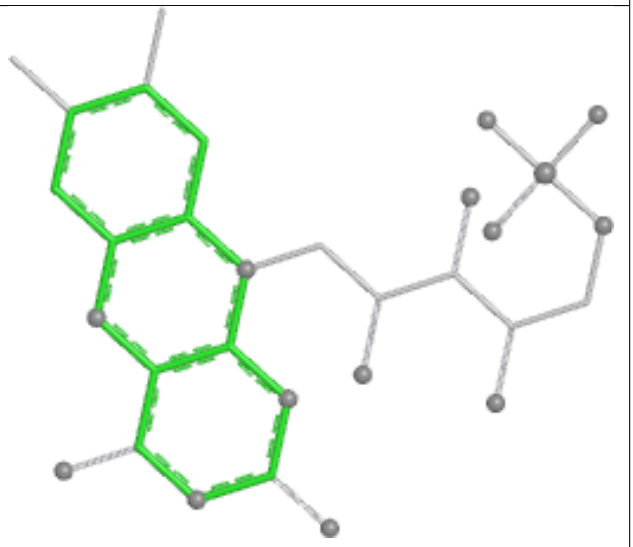
Bond lengths



Bond angles

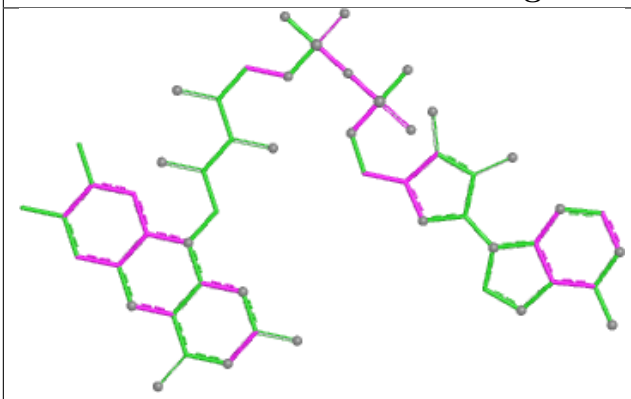


Torsions

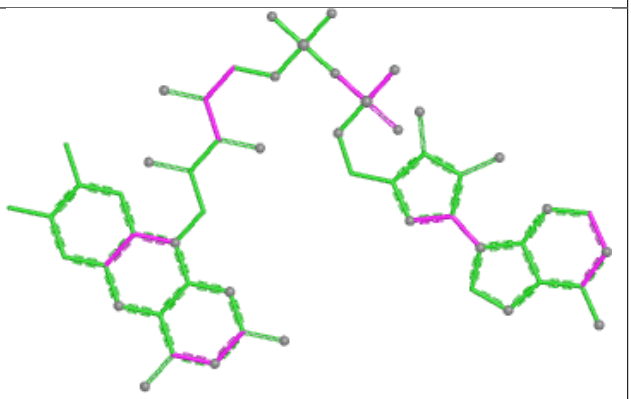


Rings

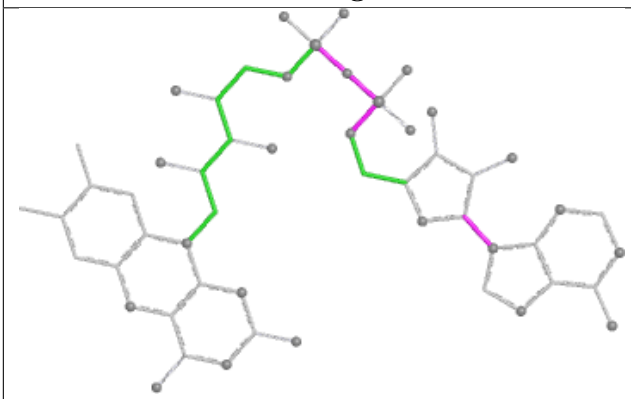
Ligand FAD H 484



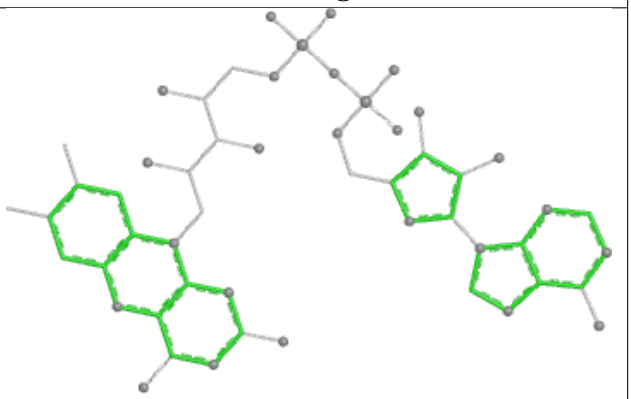
Bond lengths



Bond angles

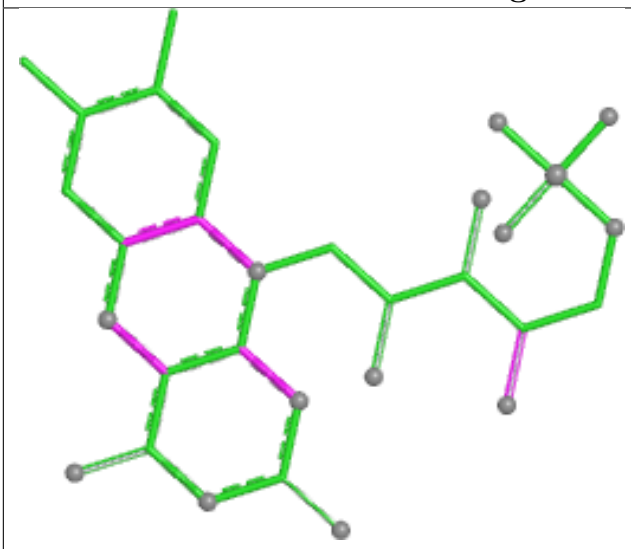


Torsions

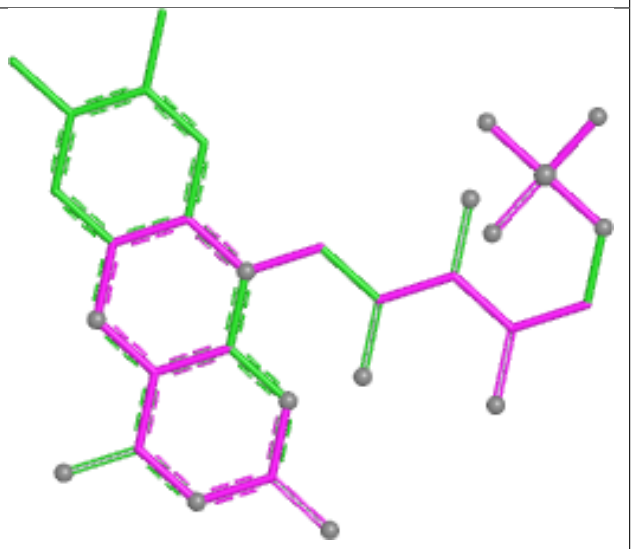


Rings

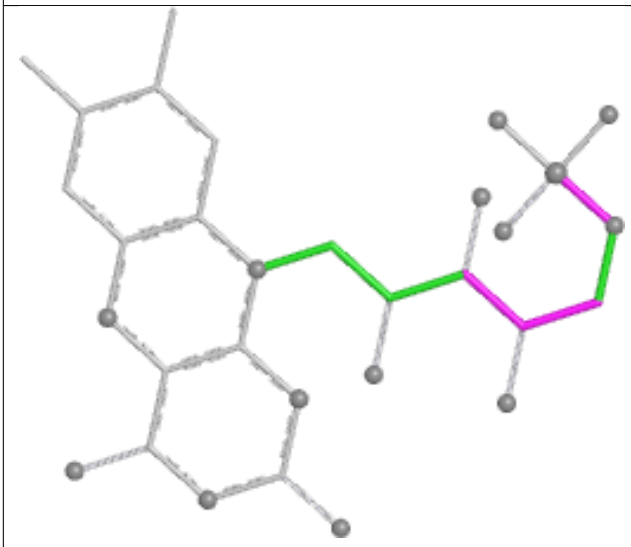
Ligand FMN A 2474



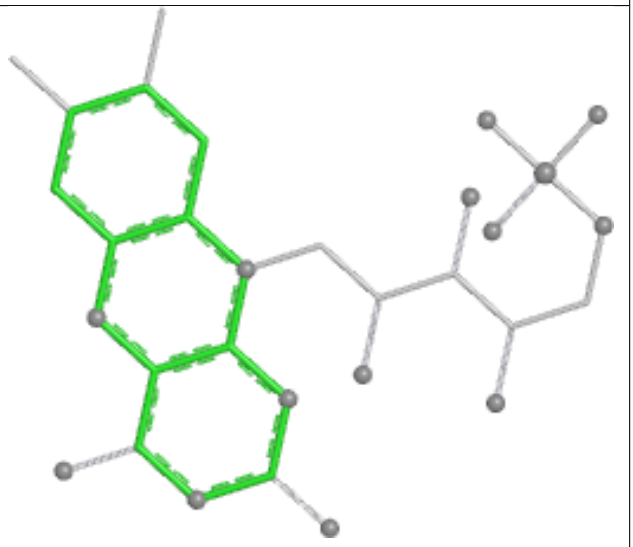
Bond lengths



Bond angles

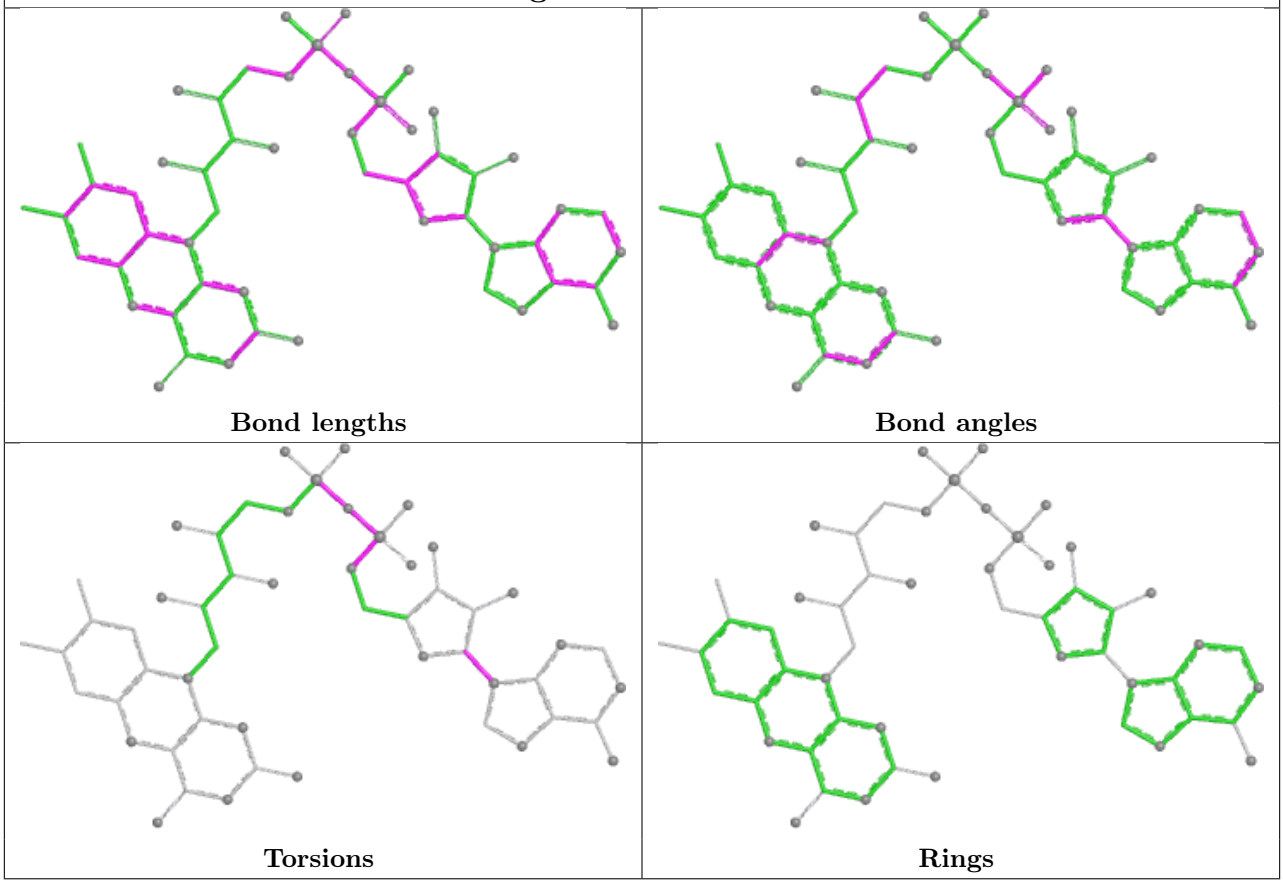


Torsions



Rings

Ligand FAD J 484



5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

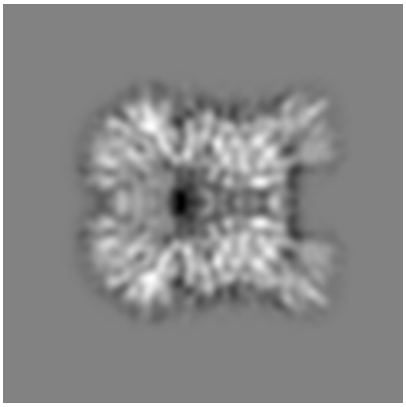
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-1440. These allow visual inspection of the internal detail of the map and identification of artifacts.

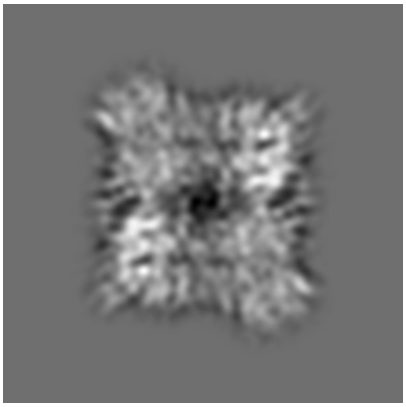
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

6.1.1 Primary map



X



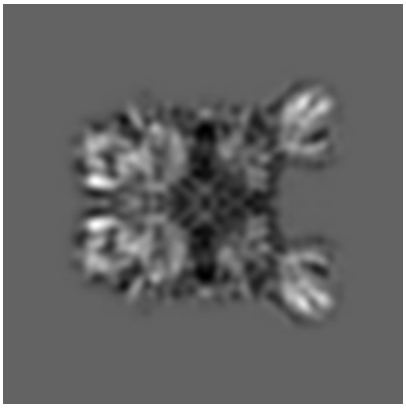
Y

Z

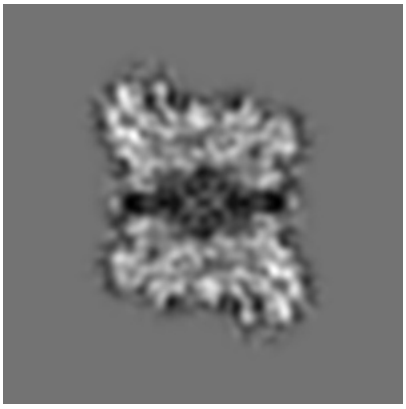
The images above show the map projected in three orthogonal directions.

6.2 Central slices

6.2.1 Primary map



X Index: 96



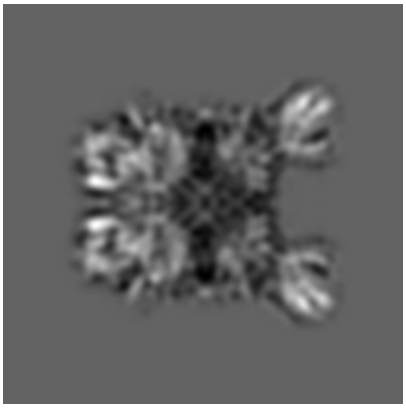
Y Index: 96

Z Index: 96

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

6.3 Largest variance slices (i)

6.3.1 Primary map



X Index: 96

Y Index: 98

Z Index: 59

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

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

6.4.1 Primary map

X

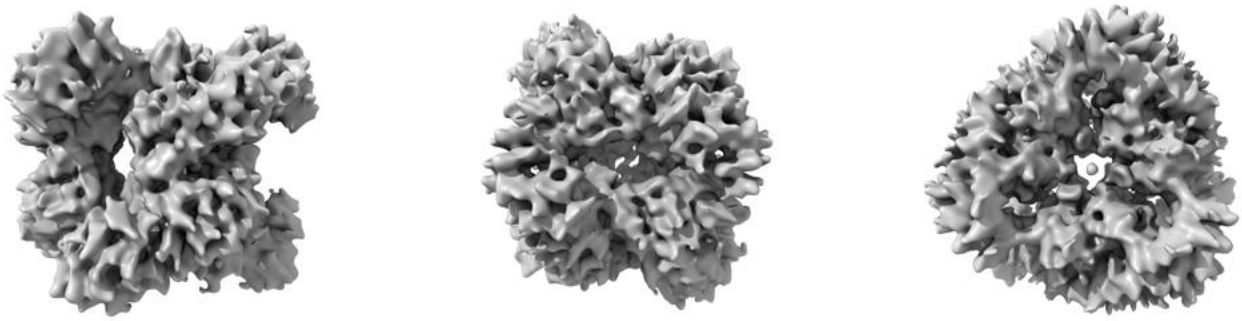
Y

Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 125.0. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

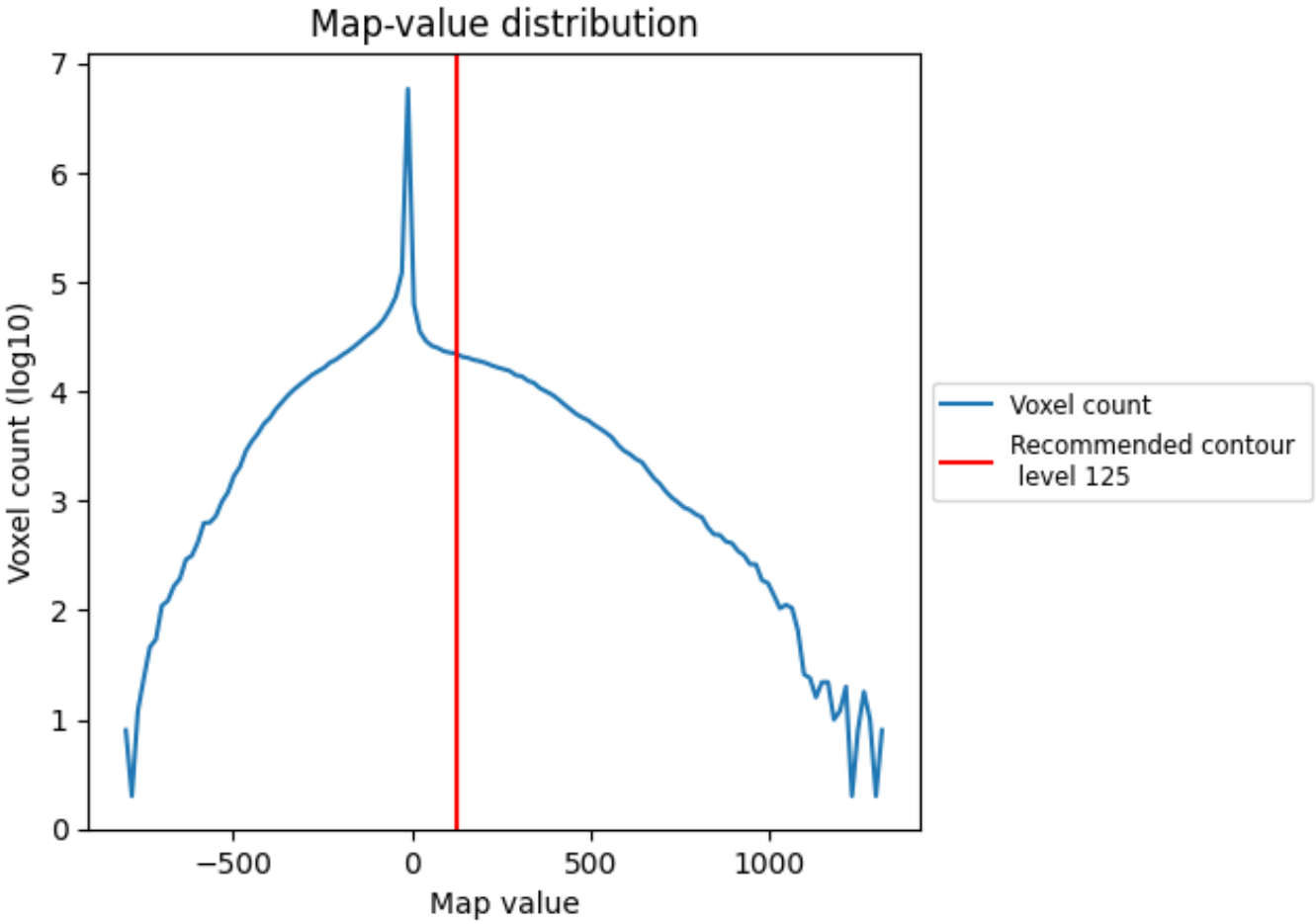
6.6 Mask visualisation (i)

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

7 Map analysis

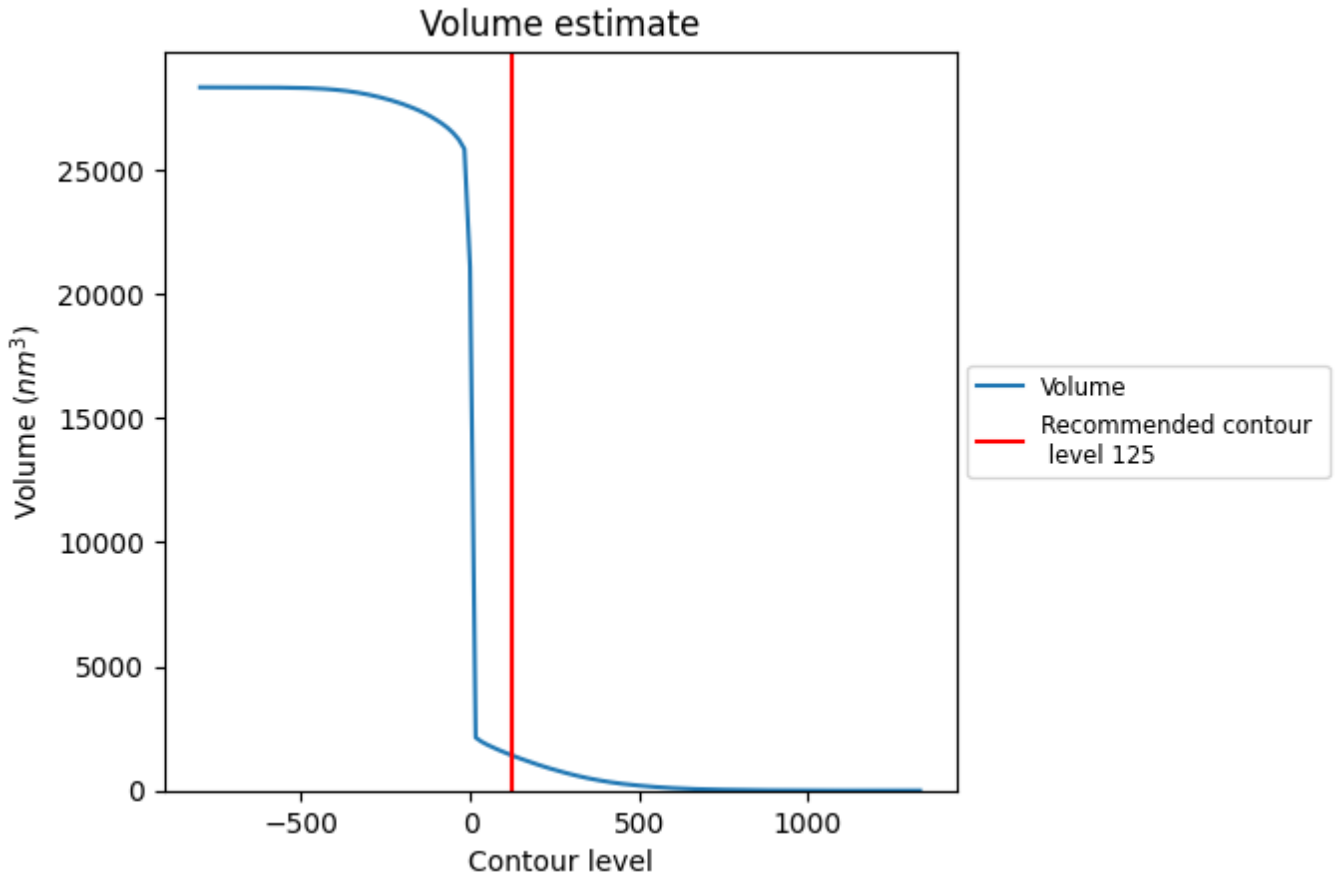
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

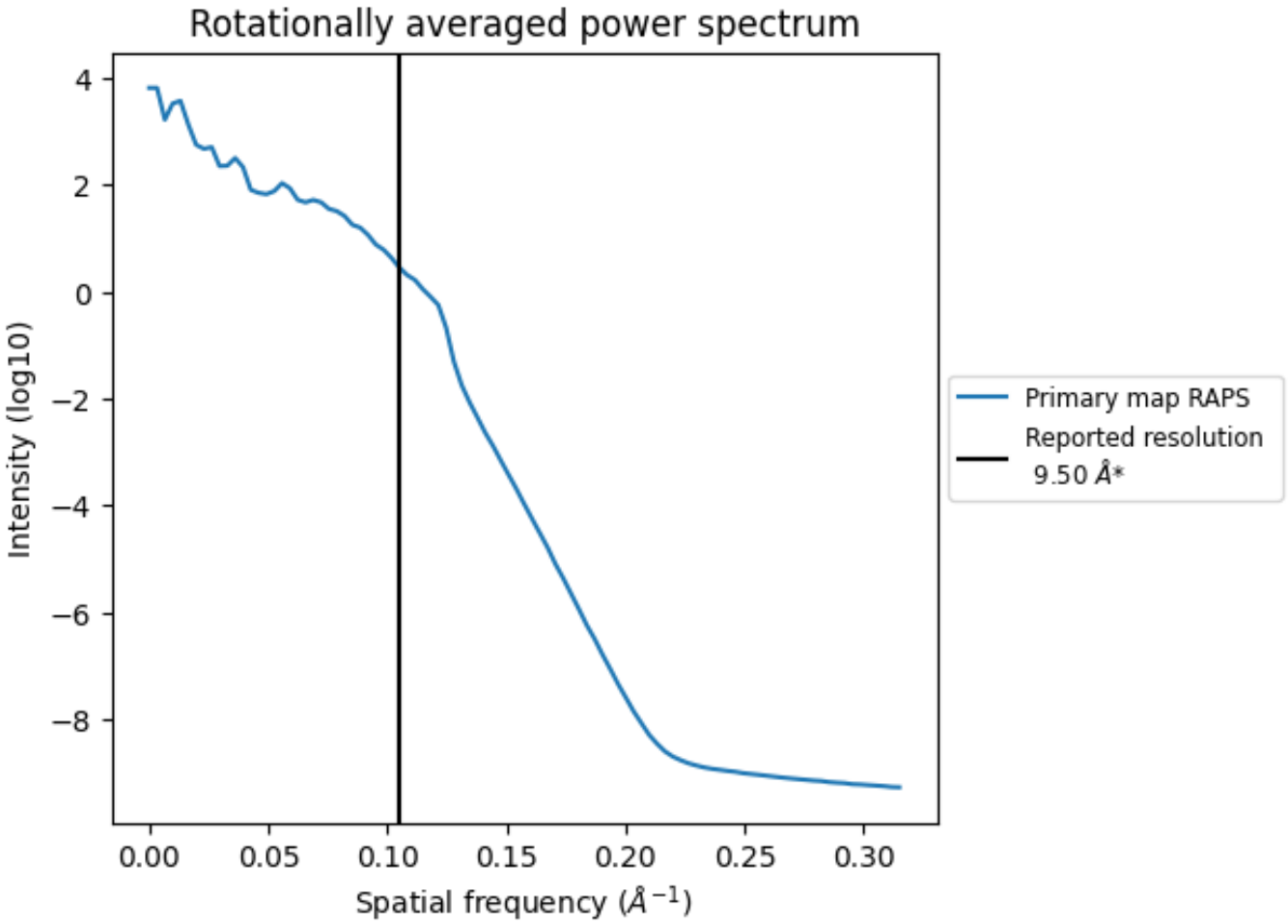
7.2 Volume estimate



The volume at the recommended contour level is 1412 nm^3; this corresponds to an approximate mass of 1276 kDa.

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

7.3 Rotationally averaged power spectrum (i)

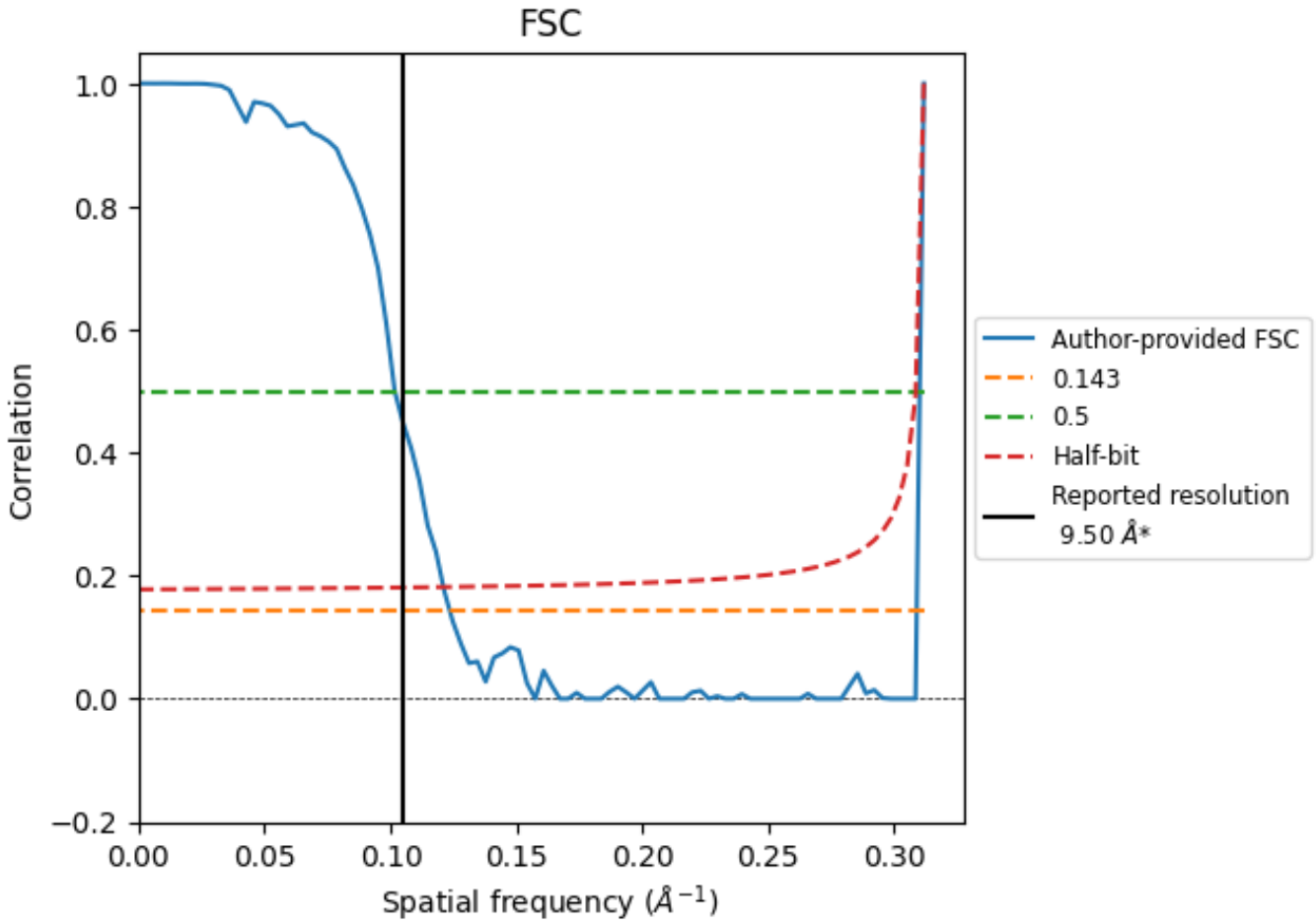


*Reported resolution corresponds to spatial frequency of 0.105 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.105 Å^{-1}

8.2 Resolution estimates (i)

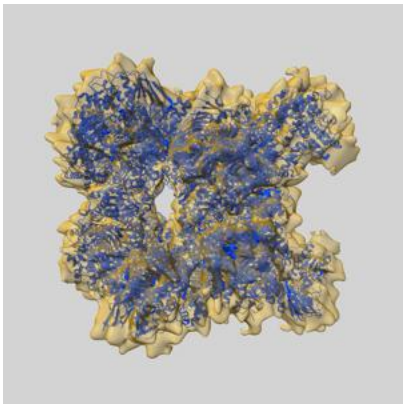
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	-	-	-
Author-provided FSC curve	8.10	9.83	8.26
Unmasked-calculated*	-	-	-

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps.

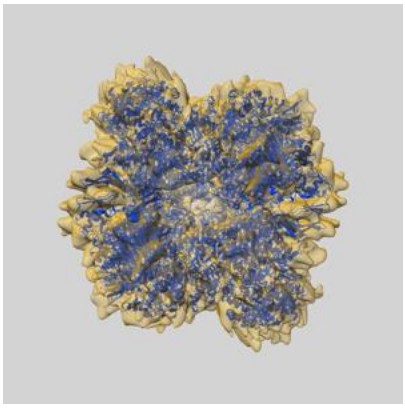
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-1440 and PDB model 2VDC. Per-residue inclusion information can be found in section 3 on page 11.

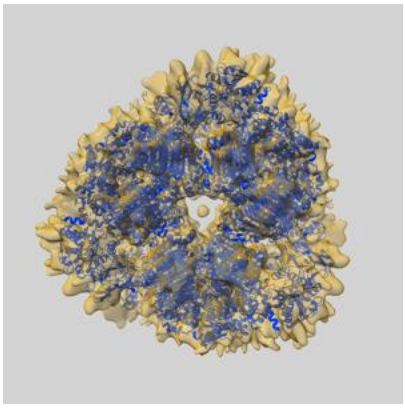
9.1 Map-model overlay



X



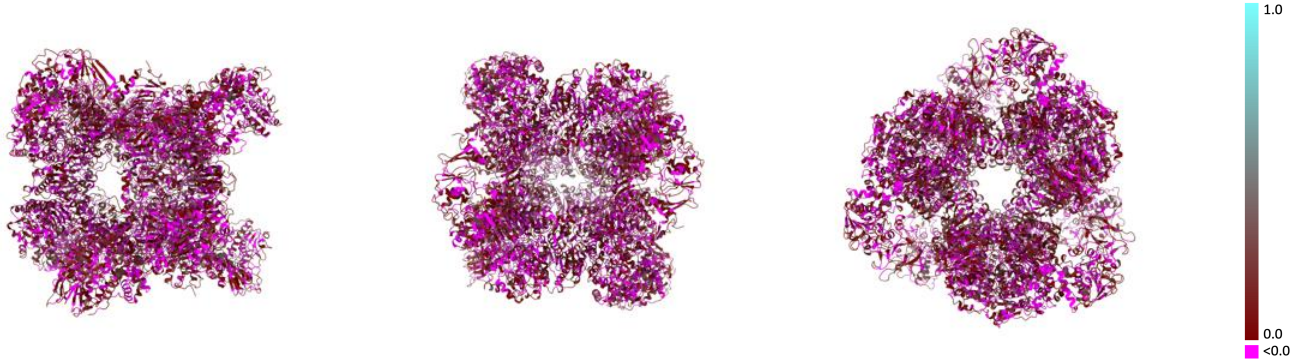
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 125.0 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

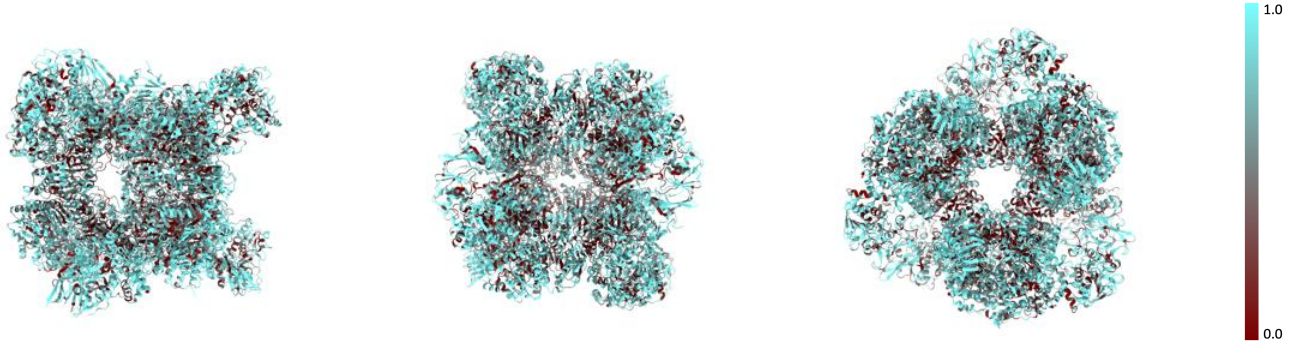
9.2 Q-score mapped to coordinate model



X Y Z

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

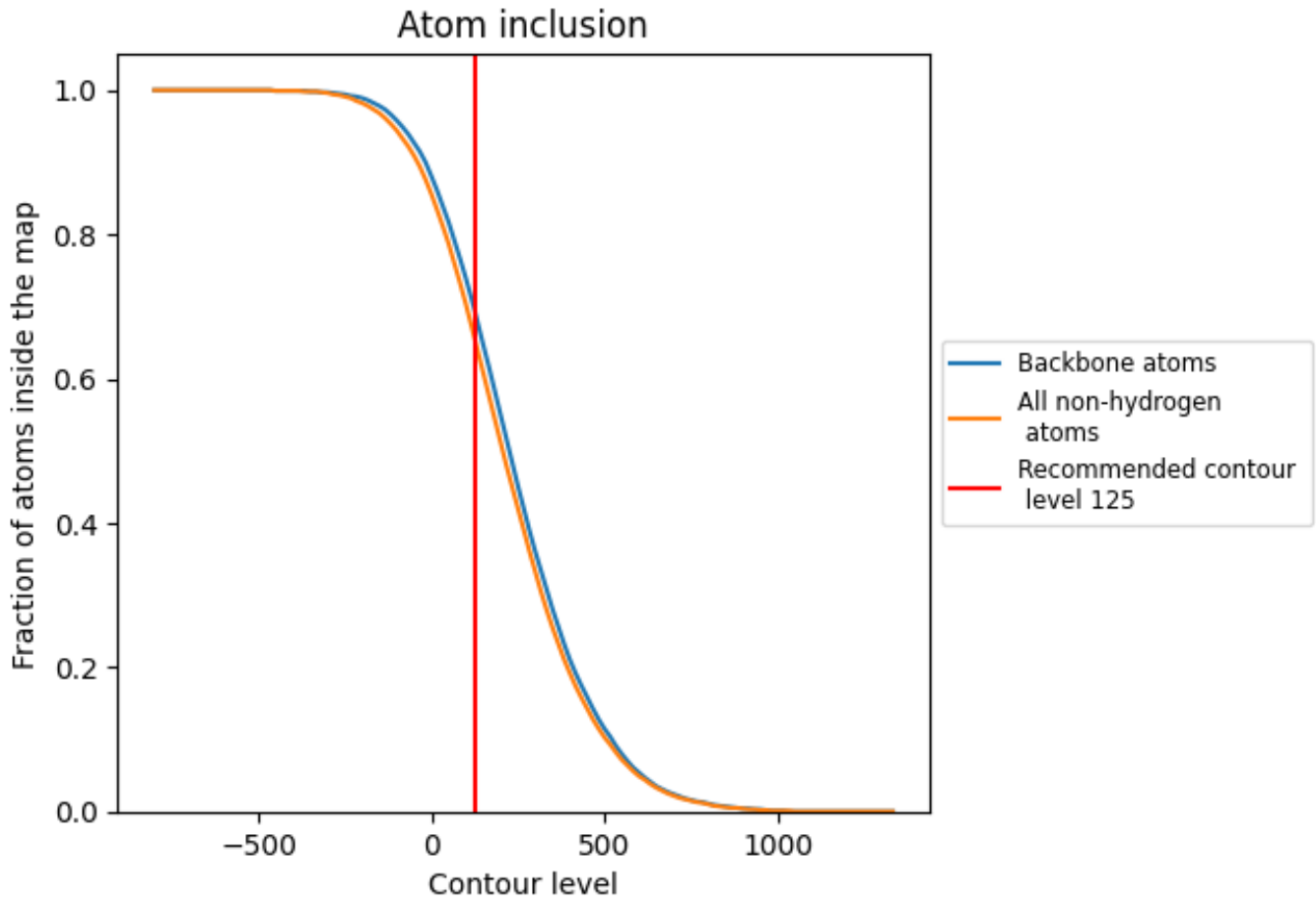
9.3 Atom inclusion mapped to coordinate model



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (125).

9.4 Atom inclusion (i)



At the recommended contour level, 70% of all backbone atoms, 66% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (125) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6560	0.0430
A	0.6470	0.0430
B	0.6460	0.0430
C	0.6350	0.0400
D	0.6350	0.0430
E	0.6360	0.0450
F	0.6350	0.0410
G	0.7250	0.0460
H	0.7080	0.0430
I	0.7010	0.0470
J	0.7250	0.0490
K	0.7010	0.0470
L	0.7080	0.0430