Full wwPDB X-ray Structure Validation Report

May 29, 2020 – 08:11 am BST

PDB ID	:	4YLO
Title	:	E. coli Transcription Initiation Complex - 16-bp spacer and 4-nt RNA
Authors	:	Zuo, Y.; Steitz, T.A.
Deposited on	:	2015-03-05
Resolution	:	6.00 Å(reported)

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

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

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

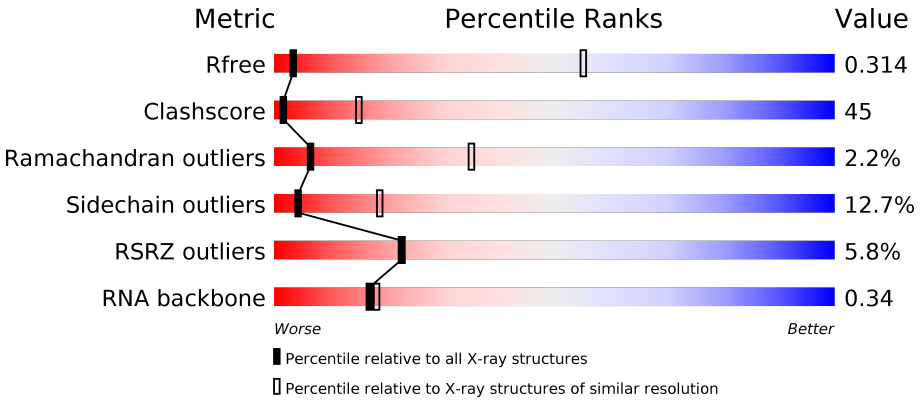
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.11
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.11

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 6.00 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1000 (8.00-3.88)
Clashscore	141614	1049 (8.00-3.90)
Ramachandran outliers	138981	1016 (8.00-3.86)
Sidechain outliers	138945	1017 (8.00-3.82)
RSRZ outliers	127900	1015 (8.20-3.78)
RNA backbone	3102	1076 (8.70-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	242	47% 40% 8% 5%
1	B	242	2% 41% 47% 6% 6%
1	G	242	7% 41% 48% 7% 5%
1	H	242	7% 45% 44% 5% 6%

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Mol	Chain	Length	Quality of chain
1	M	242	5% 40% 48% 7% 5%
1	N	242	2% 40% 47% 7% 6%
2	C	1342	3% 45% 48% 6%
2	I	1342	2% 43% 48% 8%
2	O	1342	3% 43% 49% 8%
3	D	1407	4% 36% 51% 10%
3	J	1407	8% 40% 48% 9%
3	P	1407	7% 40% 48% 8%
4	E	90	9% 52% 42%
4	K	90	7% 56% 41%
4	Q	90	10% 52% 43%
5	F	628	13% 38% 35% 5% 21%
5	L	628	9% 37% 36% 6% 21%
5	R	628	9% 40% 33% 6% 21%
6	1	49	2% 24% 76%
6	4	49	4% 20% 78%
6	7	49	8% 31% 69%
7	2	49	4% 37% 63%
7	5	49	33% 67%
7	8	49	35% 65%
8	3	4	50% 50%
8	6	4	50% 50%
8	9	4	50% 50%

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
10	ZN	D	1502	-	-	X	-

2 Entry composition

There are 10 unique types of molecules in this entry. The entry contains 94608 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	230	Total	C	N	O	S	0	0	0
			1787	1112	317	352	6			
1	B	228	Total	C	N	O	S	0	0	0
			1767	1100	312	349	6			
1	G	230	Total	C	N	O	S	0	0	0
			1787	1112	317	352	6			
1	H	228	Total	C	N	O	S	0	0	0
			1767	1100	312	349	6			
1	M	230	Total	C	N	O	S	0	0	0
			1787	1112	317	352	6			
1	N	228	Total	C	N	O	S	0	0	0
			1767	1100	312	349	6			

There are 42 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-6	ALA	-	expression tag	UNP A7ZSI4
A	-5	HIS	-	expression tag	UNP A7ZSI4
A	-4	HIS	-	expression tag	UNP A7ZSI4
A	-3	HIS	-	expression tag	UNP A7ZSI4
A	-2	HIS	-	expression tag	UNP A7ZSI4
A	-1	HIS	-	expression tag	UNP A7ZSI4
A	0	HIS	-	expression tag	UNP A7ZSI4
B	-6	ALA	-	expression tag	UNP A7ZSI4
B	-5	HIS	-	expression tag	UNP A7ZSI4
B	-4	HIS	-	expression tag	UNP A7ZSI4
B	-3	HIS	-	expression tag	UNP A7ZSI4
B	-2	HIS	-	expression tag	UNP A7ZSI4
B	-1	HIS	-	expression tag	UNP A7ZSI4
B	0	HIS	-	expression tag	UNP A7ZSI4
G	-6	ALA	-	expression tag	UNP A7ZSI4
G	-5	HIS	-	expression tag	UNP A7ZSI4
G	-4	HIS	-	expression tag	UNP A7ZSI4

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Chain	Residue	Modelled	Actual	Comment	Reference
G	-3	HIS	-	expression tag	UNP A7ZSI4
G	-2	HIS	-	expression tag	UNP A7ZSI4
G	-1	HIS	-	expression tag	UNP A7ZSI4
G	0	HIS	-	expression tag	UNP A7ZSI4
H	-6	ALA	-	expression tag	UNP A7ZSI4
H	-5	HIS	-	expression tag	UNP A7ZSI4
H	-4	HIS	-	expression tag	UNP A7ZSI4
H	-3	HIS	-	expression tag	UNP A7ZSI4
H	-2	HIS	-	expression tag	UNP A7ZSI4
H	-1	HIS	-	expression tag	UNP A7ZSI4
H	0	HIS	-	expression tag	UNP A7ZSI4
M	-6	ALA	-	expression tag	UNP A7ZSI4
M	-5	HIS	-	expression tag	UNP A7ZSI4
M	-4	HIS	-	expression tag	UNP A7ZSI4
M	-3	HIS	-	expression tag	UNP A7ZSI4
M	-2	HIS	-	expression tag	UNP A7ZSI4
M	-1	HIS	-	expression tag	UNP A7ZSI4
M	0	HIS	-	expression tag	UNP A7ZSI4
N	-6	ALA	-	expression tag	UNP A7ZSI4
N	-5	HIS	-	expression tag	UNP A7ZSI4
N	-4	HIS	-	expression tag	UNP A7ZSI4
N	-3	HIS	-	expression tag	UNP A7ZSI4
N	-2	HIS	-	expression tag	UNP A7ZSI4
N	-1	HIS	-	expression tag	UNP A7ZSI4
N	0	HIS	-	expression tag	UNP A7ZSI4

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	C	1341	Total	C	N	O	S	0	0	0
			10576	6636	1842	2055	43			
2	I	1341	Total	C	N	O	S	0	0	0
			10576	6636	1842	2055	43			
2	O	1341	Total	C	N	O	S	0	0	0
			10576	6636	1842	2055	43			

- Molecule 3 is a protein called DNA-directed RNA polymerase subunit beta'.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	D	1362	Total	C	N	O	S	0	0	0
			10568	6633	1887	1998	50			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	J	1362	Total	C	N	O	S	0	0	0
			10568	6633	1887	1998	50			
3	P	1362	Total	C	N	O	S	0	0	0
			10568	6633	1887	1998	50			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	E	90	Total	C	N	O	S	0	0	0
			708	430	136	141	1			
4	K	90	Total	C	N	O	S	0	0	0
			708	430	136	141	1			
4	Q	90	Total	C	N	O	S	0	0	0
			708	430	136	141	1			

- Molecule 5 is a protein called RNA polymerase sigma factor RpoD.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	F	497	Total	C	N	O	S	0	0	0
			4022	2512	719	768	23			
5	L	497	Total	C	N	O	S	0	0	0
			4022	2512	719	768	23			
5	R	497	Total	C	N	O	S	0	0	0
			4022	2512	719	768	23			

There are 45 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
F	-14	MET	-	expression tag	UNP P00579
F	-13	ARG	-	expression tag	UNP P00579
F	-12	GLY	-	expression tag	UNP P00579
F	-11	SER	-	expression tag	UNP P00579
F	-10	HIS	-	expression tag	UNP P00579
F	-9	HIS	-	expression tag	UNP P00579
F	-8	HIS	-	expression tag	UNP P00579
F	-7	HIS	-	expression tag	UNP P00579
F	-6	HIS	-	expression tag	UNP P00579
F	-5	HIS	-	expression tag	UNP P00579
F	-4	THR	-	expression tag	UNP P00579
F	-3	ASP	-	expression tag	UNP P00579
F	-2	GLN	-	expression tag	UNP P00579
F	-1	PHE	-	expression tag	UNP P00579

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Chain	Residue	Modelled	Actual	Comment	Reference
F	0	THR	-	expression tag	UNP P00579
L	-14	MET	-	expression tag	UNP P00579
L	-13	ARG	-	expression tag	UNP P00579
L	-12	GLY	-	expression tag	UNP P00579
L	-11	SER	-	expression tag	UNP P00579
L	-10	HIS	-	expression tag	UNP P00579
L	-9	HIS	-	expression tag	UNP P00579
L	-8	HIS	-	expression tag	UNP P00579
L	-7	HIS	-	expression tag	UNP P00579
L	-6	HIS	-	expression tag	UNP P00579
L	-5	HIS	-	expression tag	UNP P00579
L	-4	THR	-	expression tag	UNP P00579
L	-3	ASP	-	expression tag	UNP P00579
L	-2	GLN	-	expression tag	UNP P00579
L	-1	PHE	-	expression tag	UNP P00579
L	0	THR	-	expression tag	UNP P00579
R	-14	MET	-	expression tag	UNP P00579
R	-13	ARG	-	expression tag	UNP P00579
R	-12	GLY	-	expression tag	UNP P00579
R	-11	SER	-	expression tag	UNP P00579
R	-10	HIS	-	expression tag	UNP P00579
R	-9	HIS	-	expression tag	UNP P00579
R	-8	HIS	-	expression tag	UNP P00579
R	-7	HIS	-	expression tag	UNP P00579
R	-6	HIS	-	expression tag	UNP P00579
R	-5	HIS	-	expression tag	UNP P00579
R	-4	THR	-	expression tag	UNP P00579
R	-3	ASP	-	expression tag	UNP P00579
R	-2	GLN	-	expression tag	UNP P00579
R	-1	PHE	-	expression tag	UNP P00579
R	0	THR	-	expression tag	UNP P00579

- Molecule 6 is a DNA chain called NT strand DNA (49-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1	49	Total	C	N	O	P	0	0	0
			996	476	178	294	48			
6	4	49	Total	C	N	O	P	0	0	0
			996	476	178	294	48			
6	7	49	Total	C	N	O	P	0	0	0
			996	476	178	294	48			

- Molecule 7 is a DNA chain called T strand DNA (49-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	2	49	Total	C	N	O	P	0	0	0
			1012	481	191	292	48			
7	5	49	Total	C	N	O	P	0	0	0
			1012	481	191	292	48			
7	8	49	Total	C	N	O	P	0	0	0
			1012	481	191	292	48			

- Molecule 8 is a RNA chain called RNA (5'-D(*(GTP))-R(P*AP*GP*U)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	3	4	Total	C	N	O	P	0	0	0
			97	39	17	35	6			
8	6	4	Total	C	N	O	P	0	0	0
			97	39	17	35	6			
8	9	4	Total	C	N	O	P	0	0	0
			97	39	17	35	6			

- Molecule 9 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
9	P	1	Total	Mg	0	0
			1	1		
9	J	1	Total	Mg	0	0
			1	1		
9	C	1	Total	Mg	0	0
			1	1		

- Molecule 10 is ZINC ION (three-letter code: ZN) (formula: Zn).

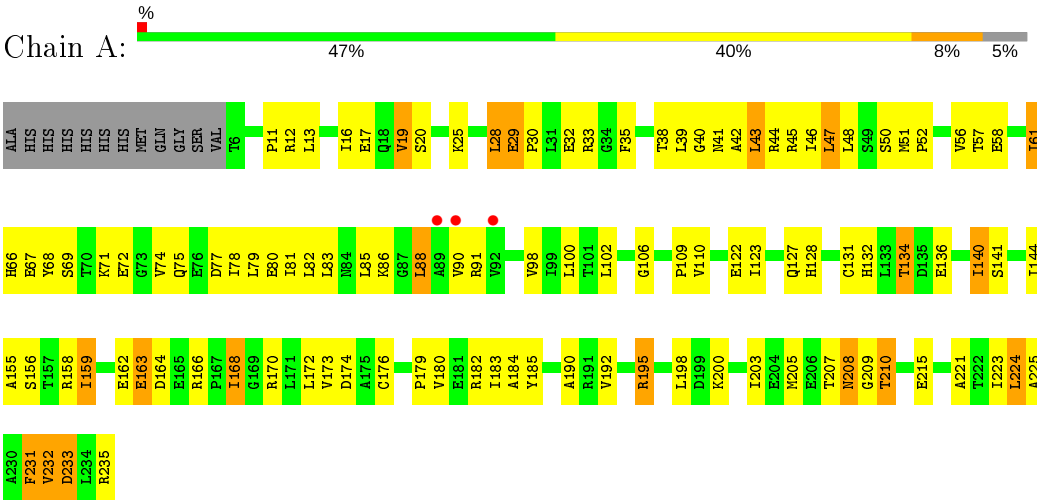
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
10	P	2	Total	Zn	0	0
			2	2		
10	J	2	Total	Zn	0	0
			2	2		
10	D	2	Total	Zn	0	0
			2	2		

3 Residue-property plots (i)

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

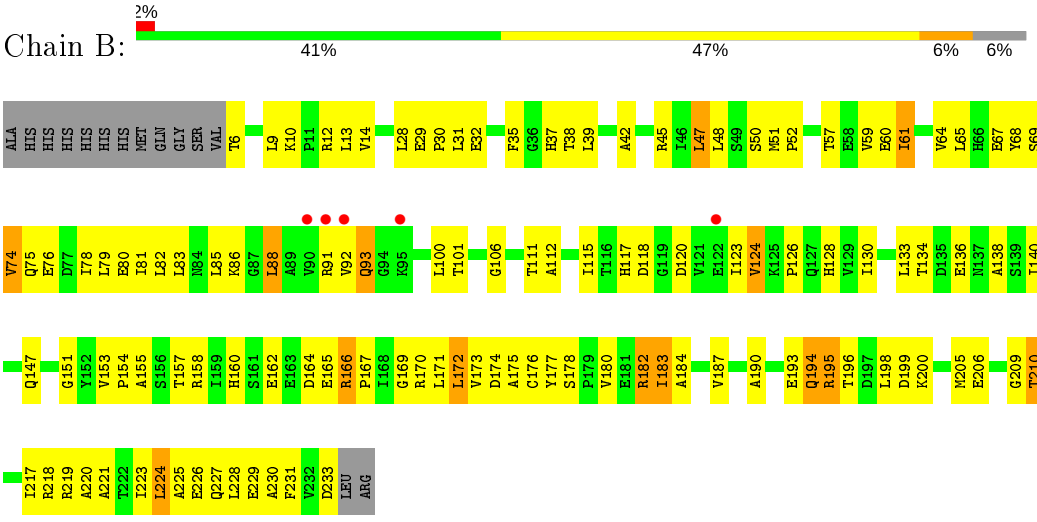
- Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain A:



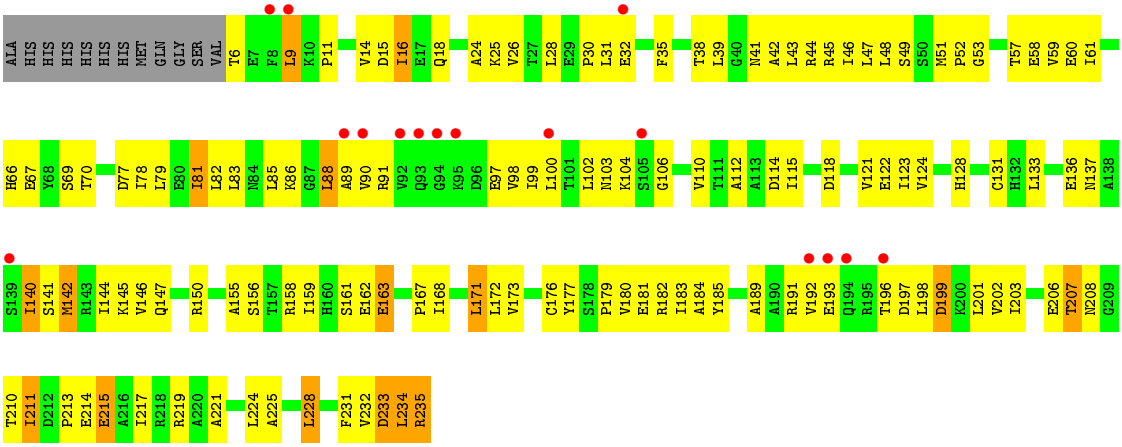
- Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain B:



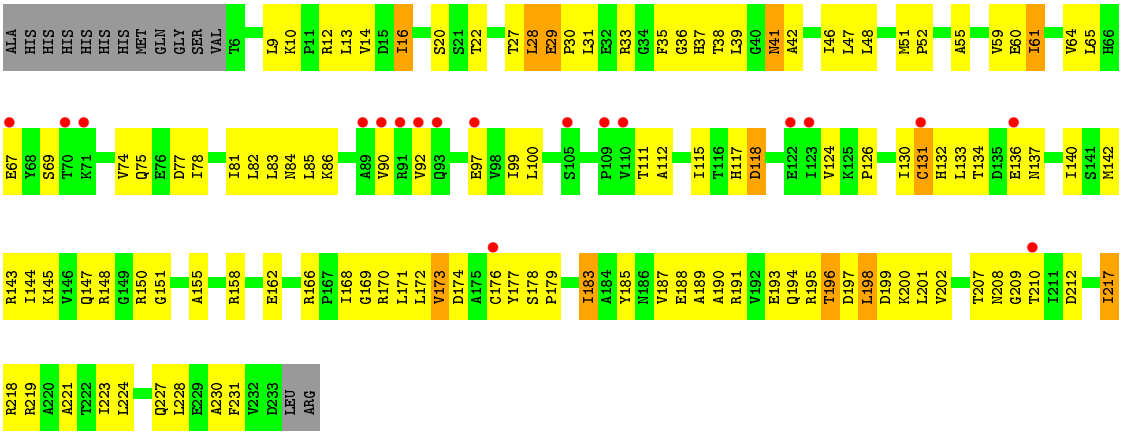
- Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain G:



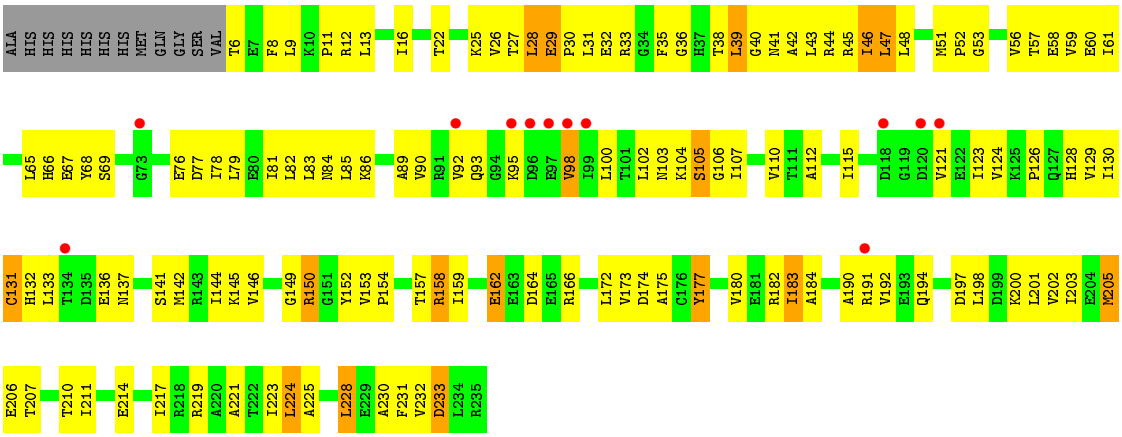
• Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain H:



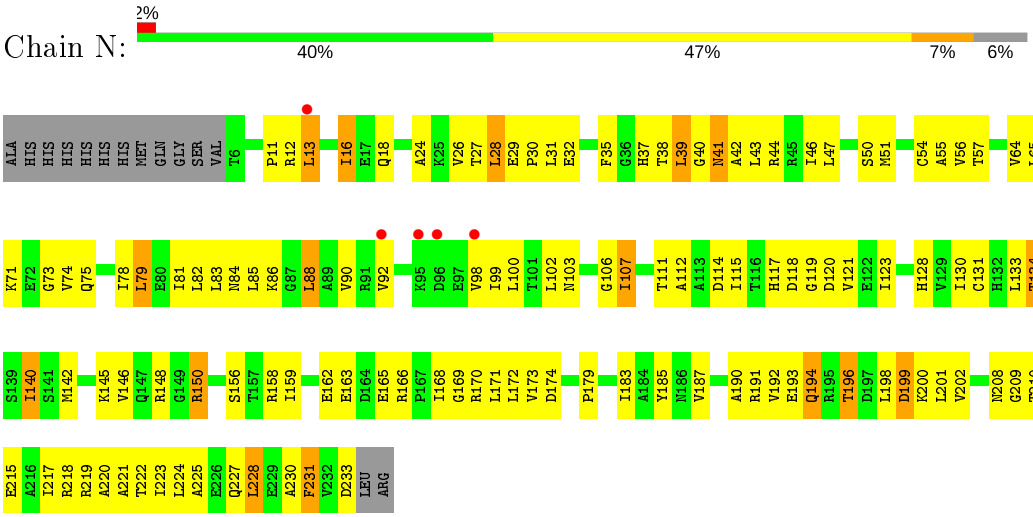
• Molecule 1: DNA-directed RNA polymerase subunit alpha

Chain M:



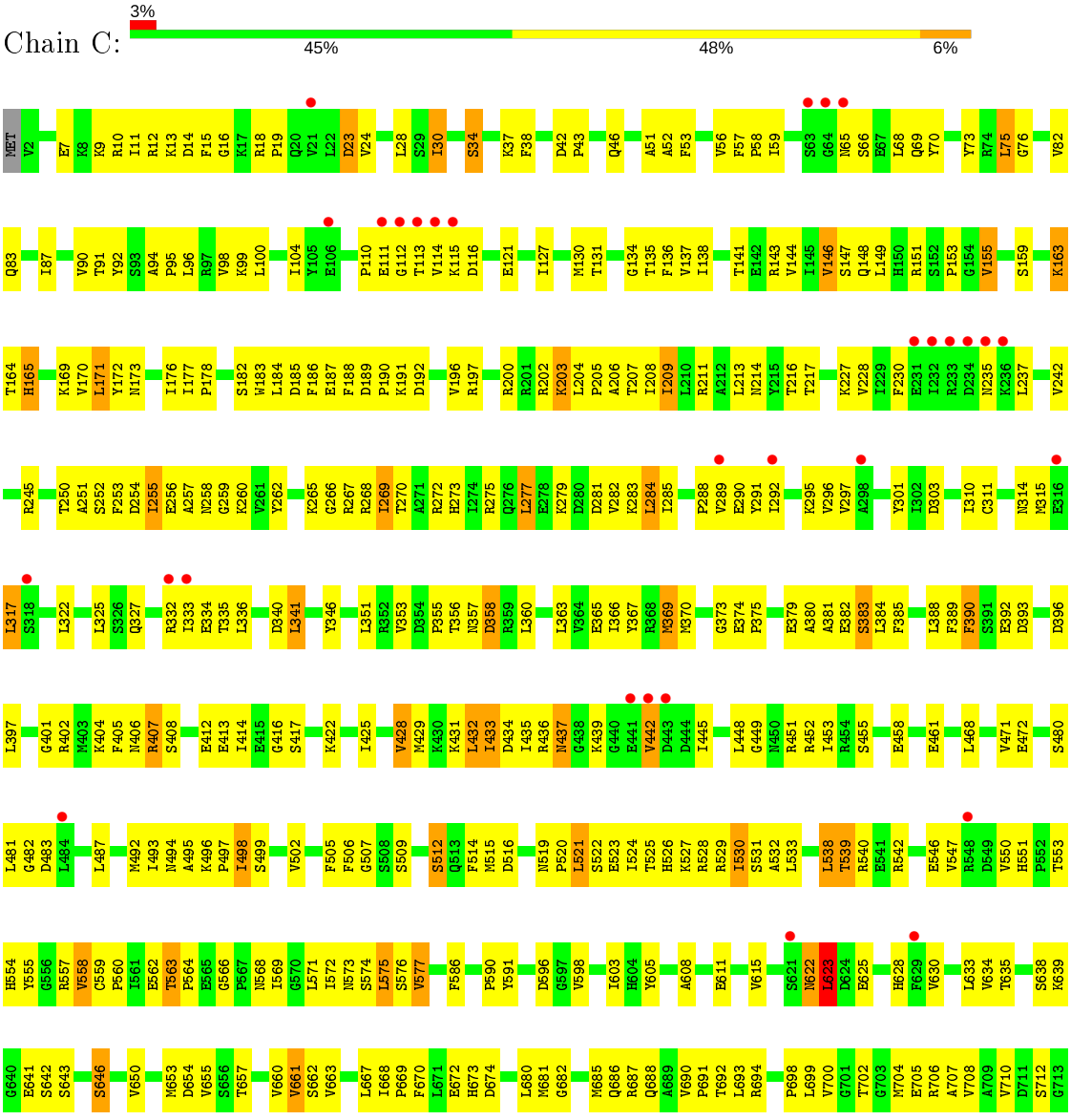
• Molecule 1: DNA-directed RNA polymerase subunit alpha

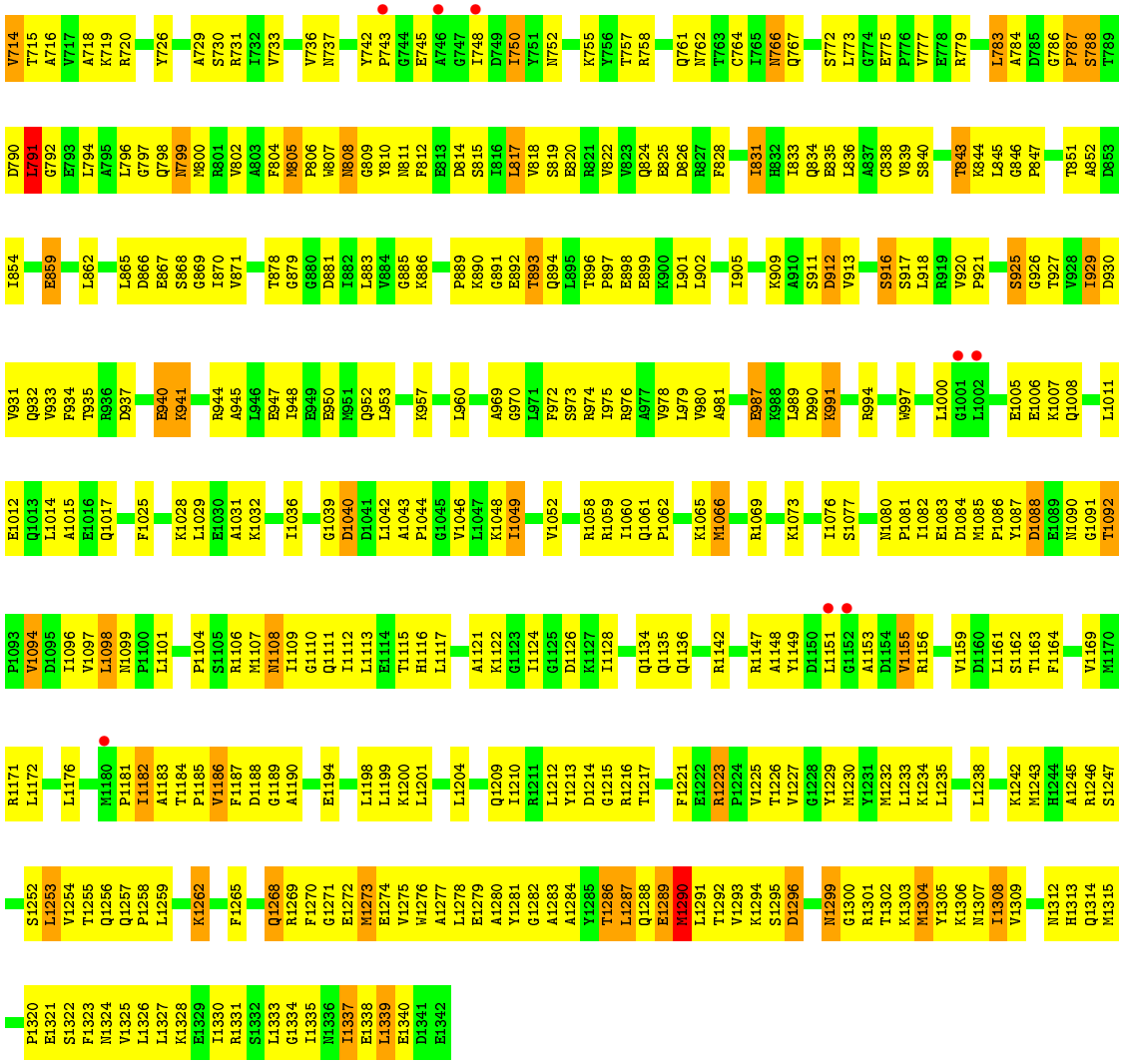
Chain N:



• Molecule 2: DNA-directed RNA polymerase subunit beta

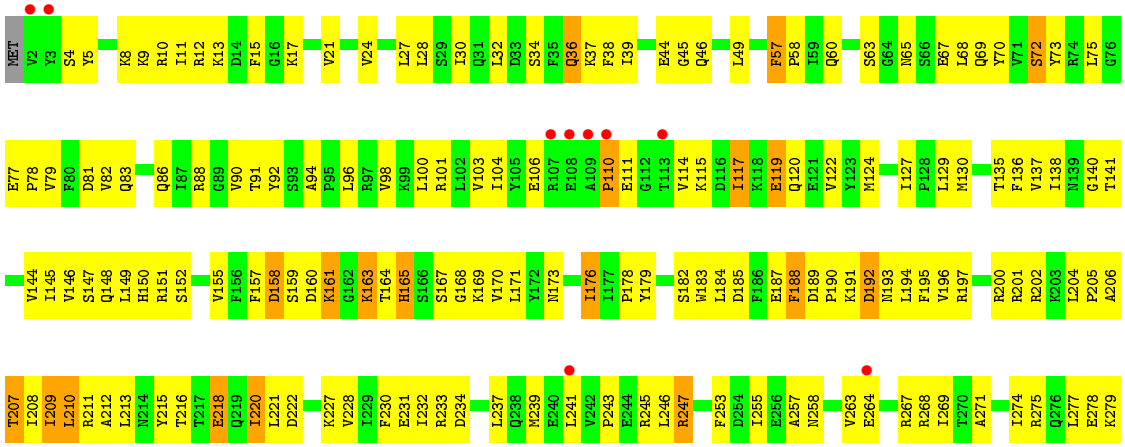
Chain C:

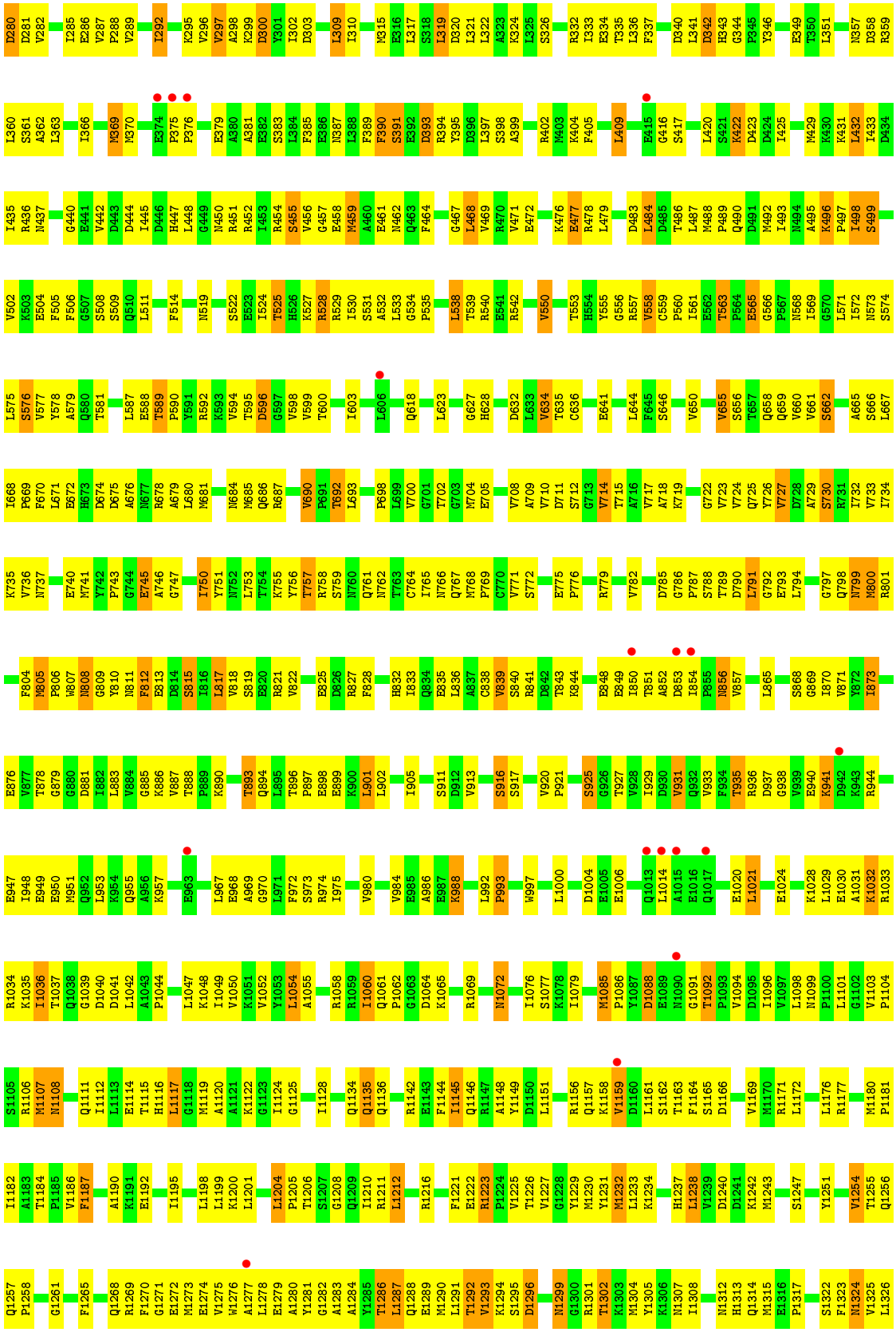




• Molecule 2: DNA-directed RNA polymerase subunit beta

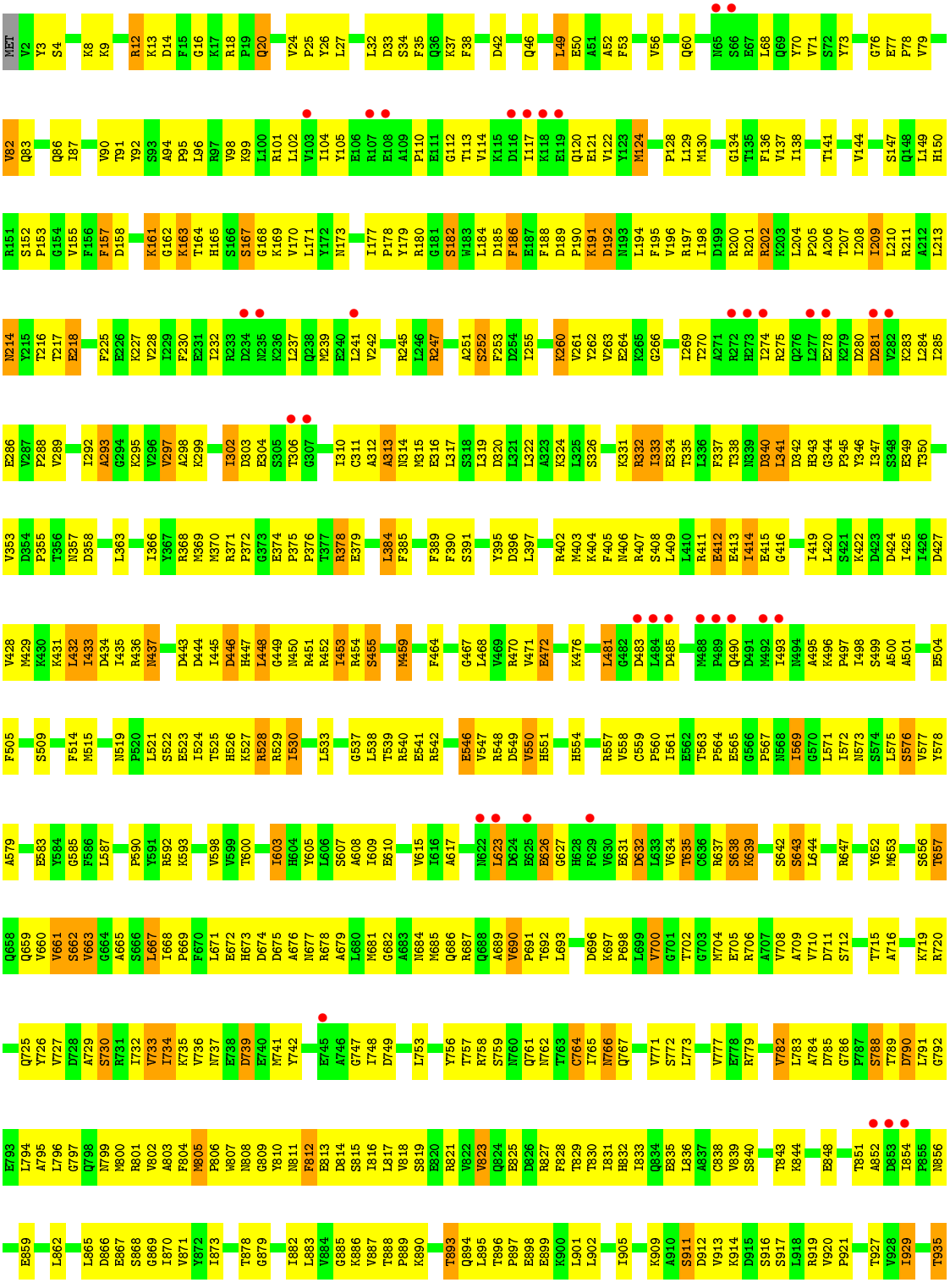
Chain I:

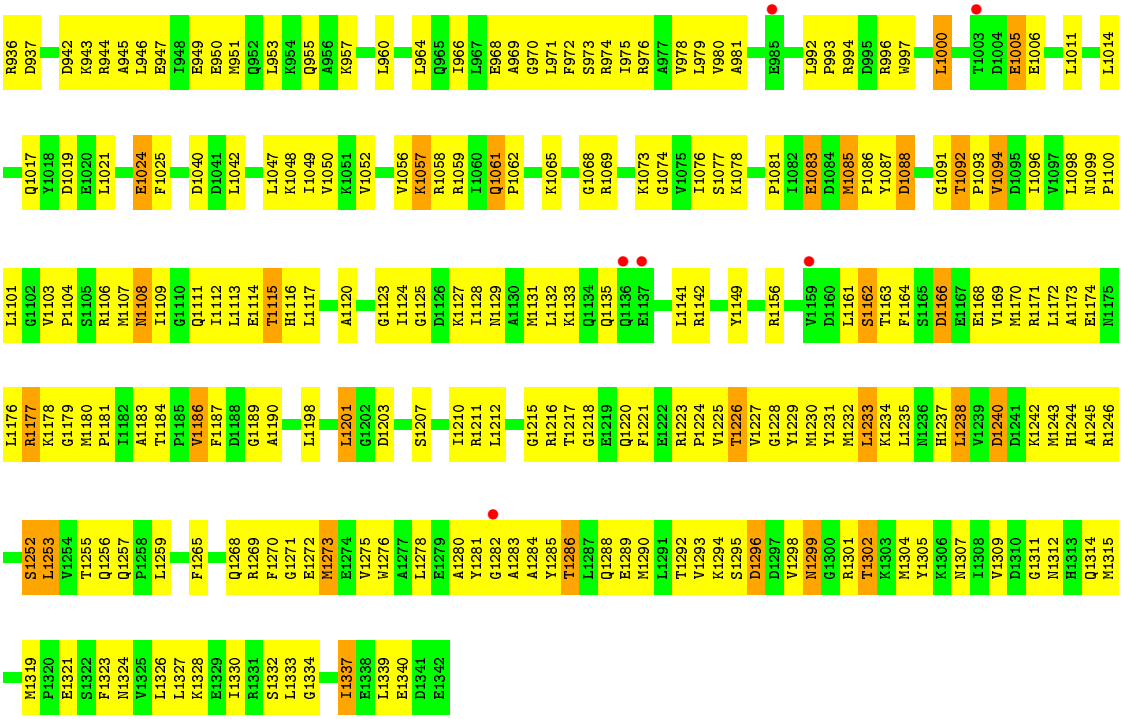



D280 D281 V282 I285 E286 V287 P288 V289 I292 K295 V296 V297 A298 K299 D300 Y301 I302 D303 L309 I310 M315 E316 L317 S318 L319 D320 L321 L322 A323 K324 L325 S326 R332 I333 E334 T335 L336 F337 D340 L341 D342 H343 G344 P345 Y346 E349 T350 L351 N357 D358 R359
L360 S361 A362 L363 I366 M369 M370 E374 P375 P376 E379 A380 A381 E382 S383 L384 F385 E386 N387 L388 F389 F390 S391 E392 D393 R394 Y395 D396 L397 S398 A399 R402 M403 K404 F405 L409 E415 G416 S417 L420 S421 K422 D423 D424 I425 M429 K430 K431 L432 I433 D434
I435 R436 N437 G440 E441 V442 D443 D444 I445 D446 H447 L448 G449 N450 R451 R452 I453 R454 S455 V456 G457 E458 M459 A460 E461 N462 Q463 F464 G467 L468 V469 R470 V471 E472 K476 E477 R478 L479 D483 L484 D485 T486 L487 M488 P489 Q490 D491 M492 I493 N494 A495 K496 P497 I498 S499
V502 K503 E504 F505 F506 G507 S508 S509 Q510 L511 F514 N519 S522 E523 I524 T525 H526 K527 R528 R529 I530 S531 A532 L533 G534 P535 L538 T539 R540 E541 R542 V550 T553 H554 Y555 G556 R557 V558 C559 P560 I561 E562 T563 P564 E565 G566 P567 N568 I569 G570 L571 I572 N573 S574
L575 S576 V577 Y578 A579 Q580 T581 L587 E588 T589 P590 Y591 R592 K593 V594 T595 D596 G597 V598 V599 T600 I603 L606 Q618 L623 G627 H628 D632 L633 V634 T635 C636 E641 L644 F645 S646 V650 V655 S656 T657 Q658 Q659 V660 V661 S662 A665 S666 L667
I668 P669 F670 L671 E672 H673 D674 D675 A676 N677 R678 A679 L680 M681 N684 M685 Q686 R687 V690 P691 T692 L693 P698 L699 V700 G701 T702 G703 M704 E705 V708 A709 V710 D711 S712 G713 V714 T715 A716 V717 A718 K719 G722 V723 V724 Q725 Y726 V727 D728 A729 S730 R731 I732 V733 I734
K735 V736 N737 E740 M741 Y742 P743 G744 E745 A746 G747 I750 Y751 N752 L753 T754 K755 Y756 T757 R758 S759 N760 Q761 N762 T763 C764 I765 N766 Q767 M768 P769 C770 V771 S772 E775 P776 R779 V782 D785 G786 P787 S788 T789 D790 L791 G792 E793 L794 G797 Q798 N799 M800 R801
F804 M805 P806 W807 N808 G809 Y810 N811 F812 E813 D814 S815 I816 L817 V818 S819 E820 R821 V822 E825 D826 R827 F828 H832 I833 Q834 E835 L836 A837 C838 V839 S840 R841 D842 T843 K844 E848 E849 I850 T851 A852 D853 I854 P855 N856 V857 L865 S868 G869 I870 V871 Y872 I873
E876 V877 T878 G879 G880 D881 I882 L883 V884 G885 K886 V887 T888 P889 K890 T893 Q894 L895 T896 P897 E898 E899 K900 L901 L902 I905 S911 D912 V913 S916 S917 V920 P921 S925 G926 T927 Y928 I929 D930 V931 Q932 V933 F934 T935 R936 D937 G938 V939 E940 K941 D942 K943 R944
E947 I948 E949 E950 M951 Q952 L953 K954 Q955 A956 K957 E963 L967 E968 A969 G970 L971 F972 S973 R974 I975 V980 V984 E985 A986 E987 K988 L992 P993 W997 L1000 D1004 E1005 E1006 Q1013 L1014 A1015 E1016 Q1017 E1020 L1021 E1024 K1028 L1029 E1030 A1031 K1032 R1033
R1034 K1035 I1036 T1037 Q1038 G1039 D1040 D1041 L1042 A1043 P1044 L1047 K1048 I1049 V1050 K1051 V1052 Y1053 L1054 A1055 R1058 R1059 I1060 Q1061 P1062 G1063 D1064 K1065 R1069 N1072 I1076 S1077 K1078 I1079 M1085 P1086 Y1087 D1088 E1089 N1090 G1091 T1092 P1093 V1094 D1095 I1096 V1097 L1098 N1099 P1100 L1101 G1102 V1103 P1104
S1105 R1106 M1107 N1108 Q1111 I1112 L1113 E1114 T1115 H1116 L1117 G1118 M1119 A1120 A1121 K1122 G1123 T1124 G1125 I1128 R1142 E1143 F1144 T1145 Q1146 R1147 A1148 Y1149 D1150 L1151 R1156 Q1157 K1158 V1159 D1160 L1161 S1162 T1163 F1164 S1165 D1166 V1169 M1170 R1171 L1172 L1176 R1177 M1180 P1181
I1182 A1183 T1184 P1185 V1186 F1187 A1190 K1191 E1192 I1195 L1198 L1199 K1200 L1201 L1204 P1205 T1206 S1207 G1208 Q1209 I1210 R1211 L1212 R1216 F1221 E1222 R1223 P1224 Y1225 T1226 V1227 G1228 Y1229 M1230 Y1231 M1232 L1233 K1234 H1237 I1238 V1239 D1240 D1241 K1242 M1243 S1247 Y1251 Y1254 T1255 Q1256
Q1257 P1258 G1261 F1265 Q1268 R1269 F1270 Q1271 E1272 M1273 E1274 V1275 W1276 A1277 L1278 E1279 A1280 Y1281 G1282 A1283 A1284 Y1285 T1286 L1287 Q1288 E1289 M1290 L1291 T1292 V1293 K1294 S1295 D1296 N1299 G1300 R1301 T1302 K1303 M1304 Y1305 K1306 N1307 I1308 N1312 H1313 Q1314 M1315 E1316 P1317 S1322 F1323 N1324 V1325 L1326

• Molecule 2: DNA-directed RNA polymerase subunit beta

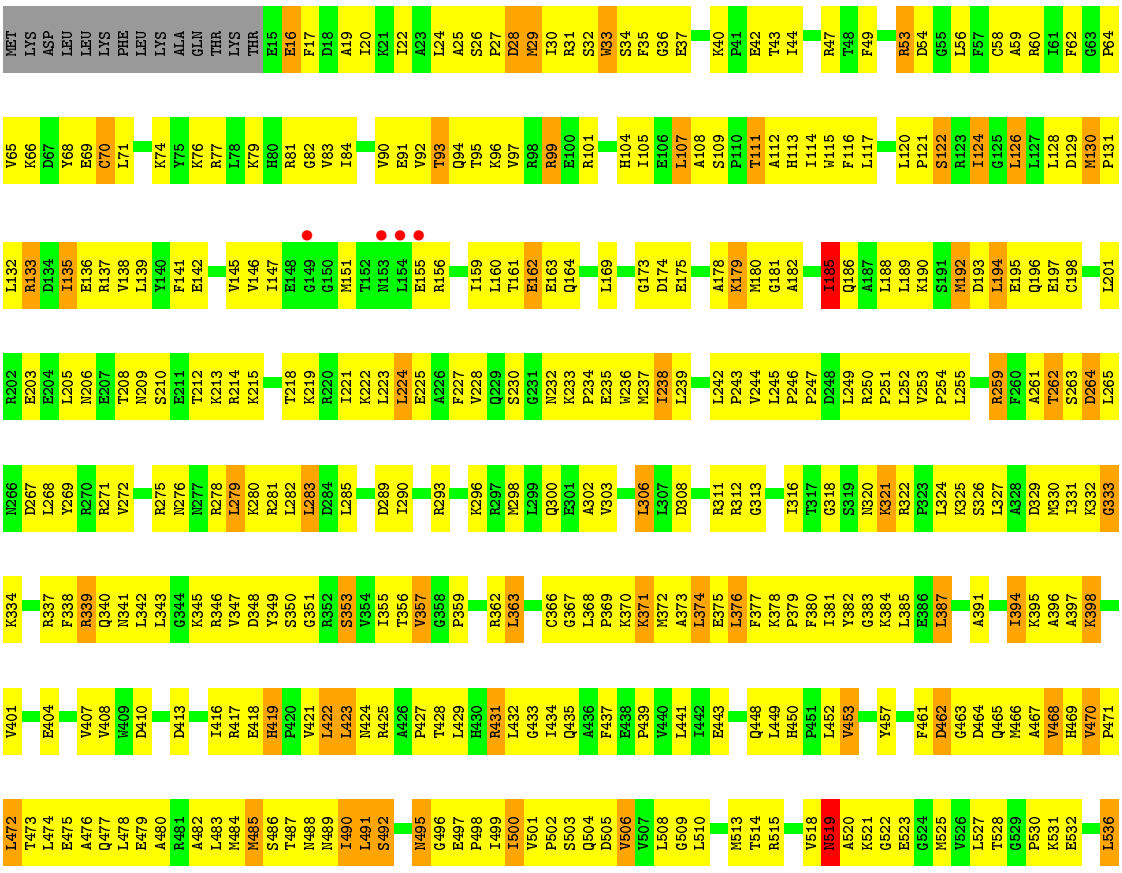
Chain O:

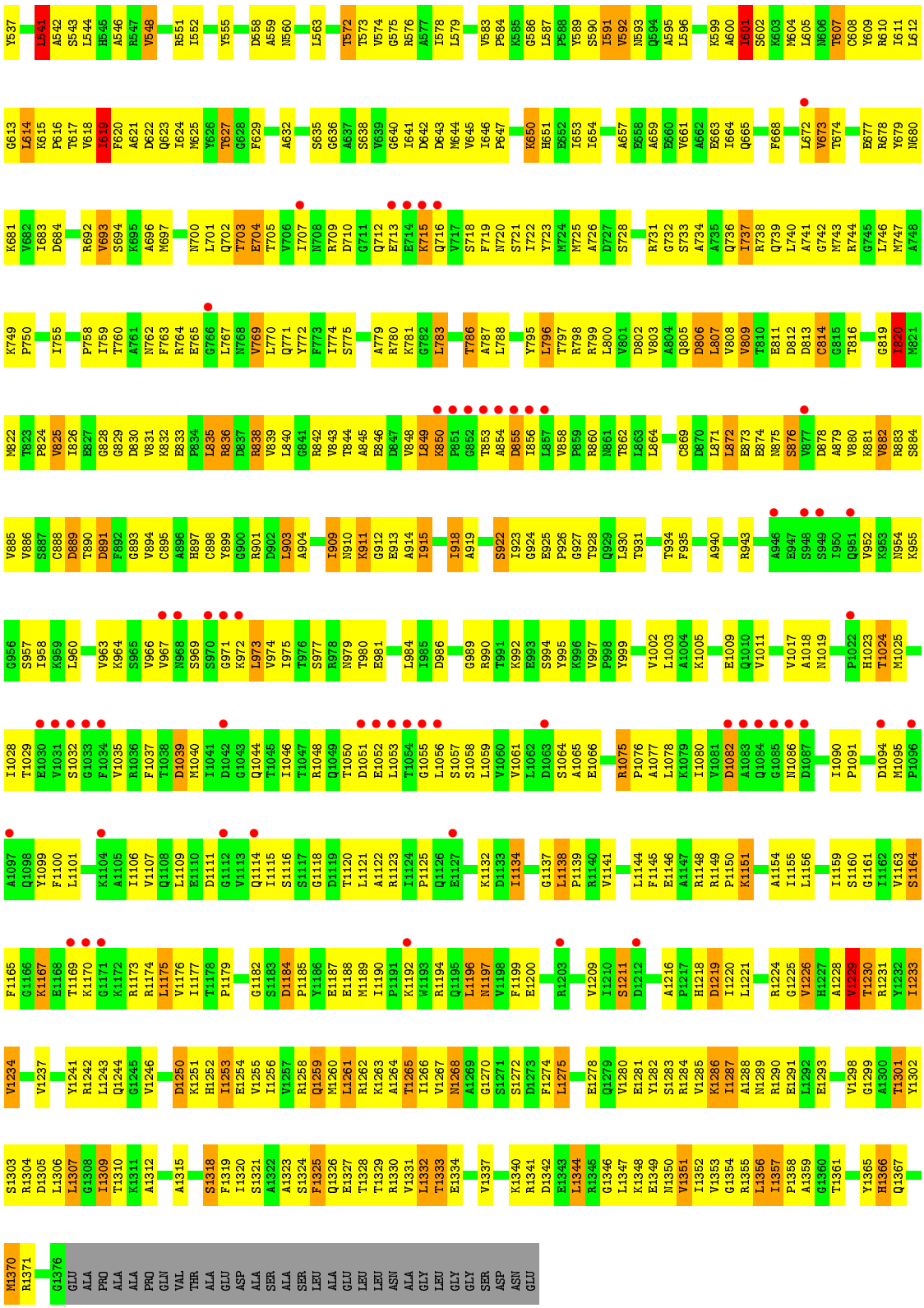




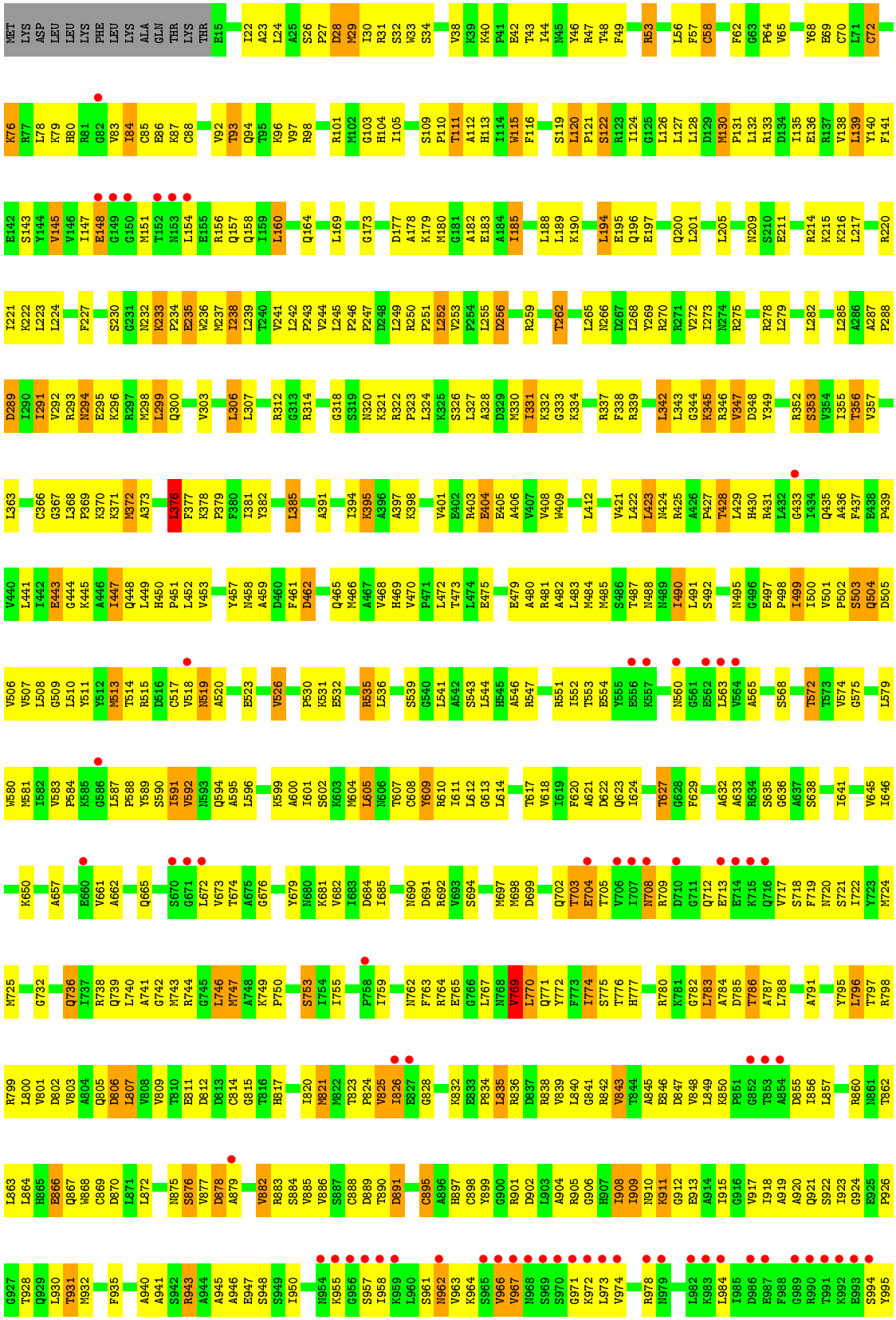
• Molecule 3: DNA-directed RNA polymerase subunit beta'

Chain D:





• Molecule 3: DNA-directed RNA polymerase subunit beta'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K76 R77 L78 K79 H80 R81 G82 V83 I84 C85 E86 K87 C88 V92 T93 Q94 T95 K96 V97 R98 R101 M102 G103 H104 I105 S109 P110 T111 A112 H113 I114 W115 F116 S119 L120 P121 S122 R123 I124 G125 L126 L127 L128 D129 M130 P131 L132 R133 D134 I135 E136 R137 V138 L139 Y140 F141
E142 S143 Y144 V145 V146 I147 E148 G149 G150 M151 T152 N153 L154 E155 R156 Q157 Q158 I159 L160 Q164 L169 G173 D177 A178 K179 M180 G181 A182 E183 A184 I185 L188 L189 K190 L194 E195 Q196 E197 Q200 L201 L205 N209 S210 E211 R214 K215 K216 L217 R220
I221 K222 L223 L224 F227 S230 G231 N232 K233 P234 E235 W236 M237 I238 L239 T240 V241 L242 P243 V244 L245 P246 P247 D248 L249 R250 P251 L252 V253 P254 L255 D256 R259 T262 L265 N266 D267 I268 Y269 R270 R271 V272 I273 N274 R275 R278 L279 L282 L285 A286 A287 P288
D289 I290 I291 V292 R293 N294 E295 K296 R297 M298 L299 Q300 V303 L306 L307 R312 G313 R314 G318 S319 N320 K321 R322 P323 L324 K325 S326 L327 A328 D329 M330 I331 K332 G333 K334 R337 F338 R339 L342 L343 G344 K345 R346 V347 D348 Y349 R352 S353 V354 I355 T356 V357
I363 C366 G367 L368 P369 K370 K371 M372 A373 I376 F377 K378 P379 F380 I381 Y382 I385 A391 I394 N395 A396 A397 N398 V401 E402 R403 E404 E405 A406 V407 V408 W409 I412 V421 L422 L423 N424 R425 A426 P427 T428 L429 H430 R431 I432 G433 I434 Q435 A436 F437 E438 P439
V440 L441 I442 E443 G444 K445 A446 I447 Q448 L449 H450 P451 L452 V453 Y457 N458 A459 D460 F461 D462 Q465 M466 A467 V468 H469 V470 P471 L472 T473 L474 E475 E479 A480 R481 A482 L483 M484 M485 S486 T487 N488 N489 I490 L491 S492 N495 G496 E497 P498 I499 I500 V501 P502 S503 Q504 D505
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W580 M581 I582 V583 P584 K585 G586 L587 P588 Y589 S590 I591 V592 N593 Q594 A595 L596 K599 A600 I601 S602 K603 W604 L605 N606 T607 C608 Y609 G610 I611 L612 G613 L614 T617 V618 I619 F620 A621 D622 Q623 I624 T627 G628 F629 A632 A633 E634 S635 G636 A637 S638 I641 V645 I646
K650 A657 E660 V661 A662 Q665 S670 G671 L672 V673 T674 A675 G676 Y679 N680 K681 V682 I683 D684 I685 N690 D691 R692 V693 S694 M697 M698 D699 Q702 T703 E704 T705 V706 I707 N708 R709 D710 G711 Q712 E713 E714 K715 Q716 V717 S718 F719 N720 S721 I722 Y723 M724
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R799 L800 V801 D802 V803 A804 Q805 D806 L807 V808 V809 T810 E811 D812 D813 C814 G815 T816 H817 I820 M821 M822 T823 P824 V825 I826 E827 G828 K832 E833 P834 L835 R836 D837 R838 V839 L840 G841 R842 V843 T844 A845 E846 D847 V848 L849 K850 P851 G852 T853 A854 D855 I856 L857 R860 N861 T862
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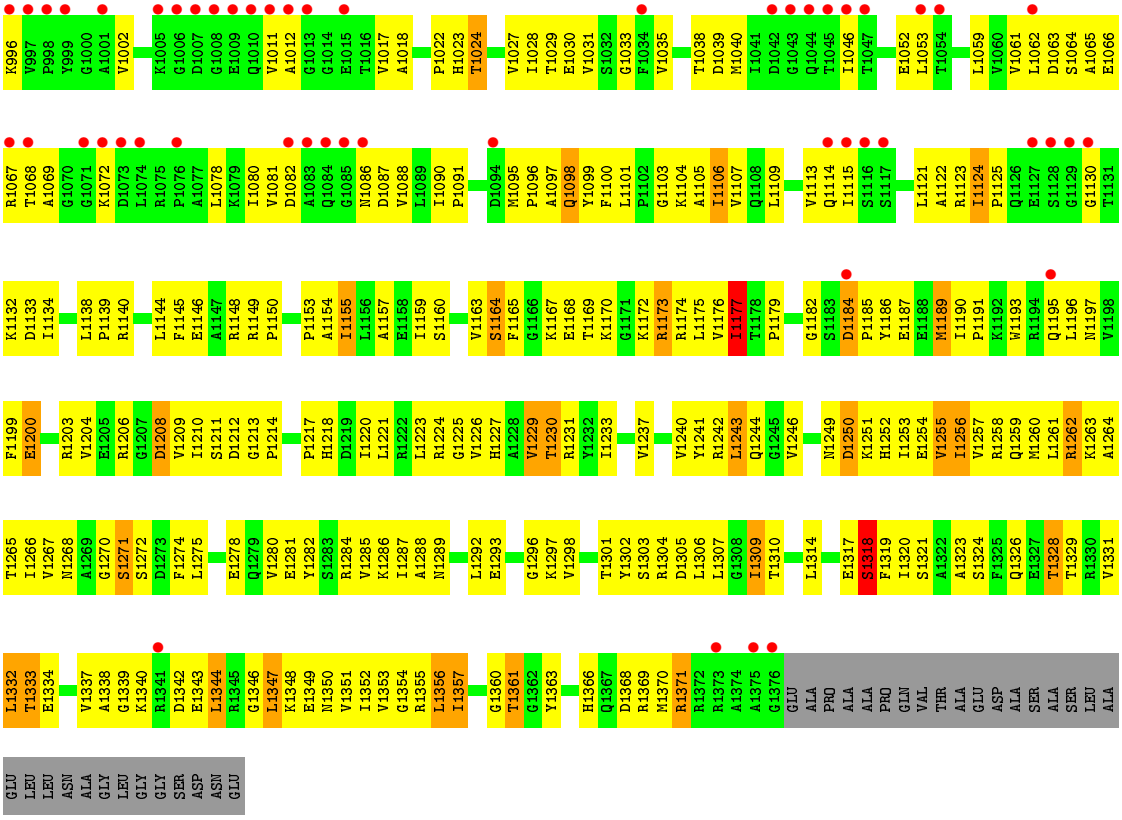
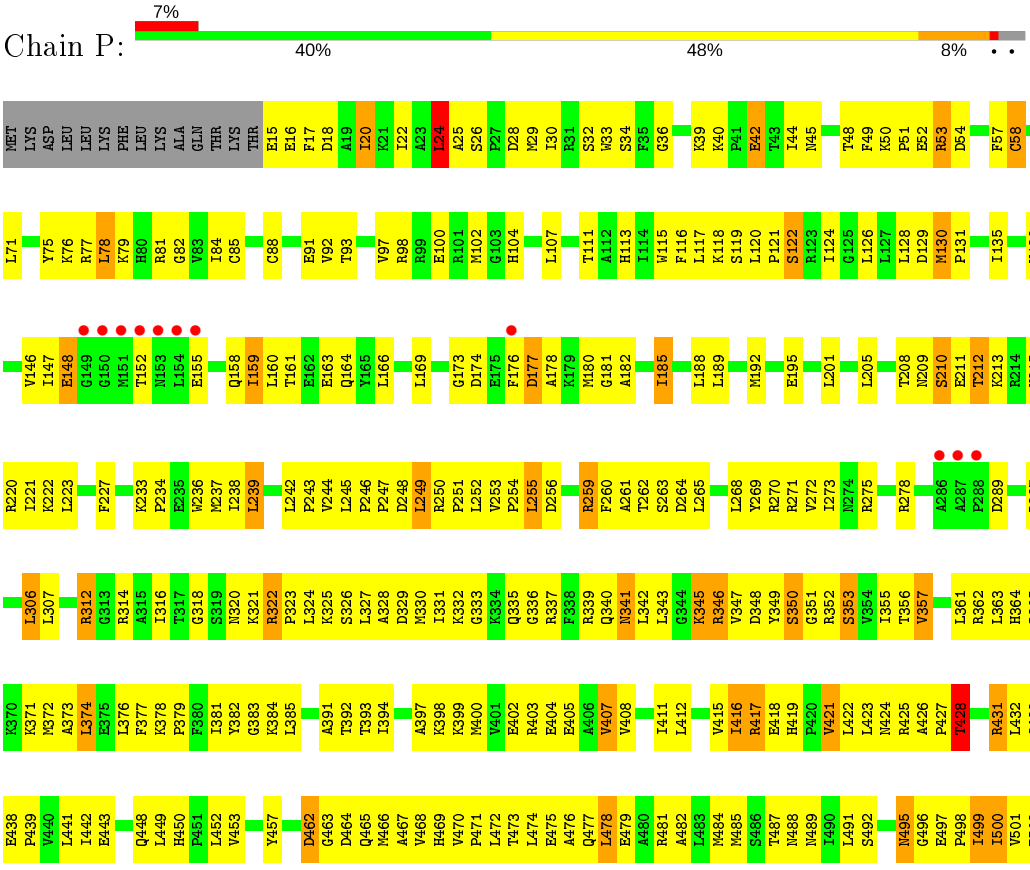
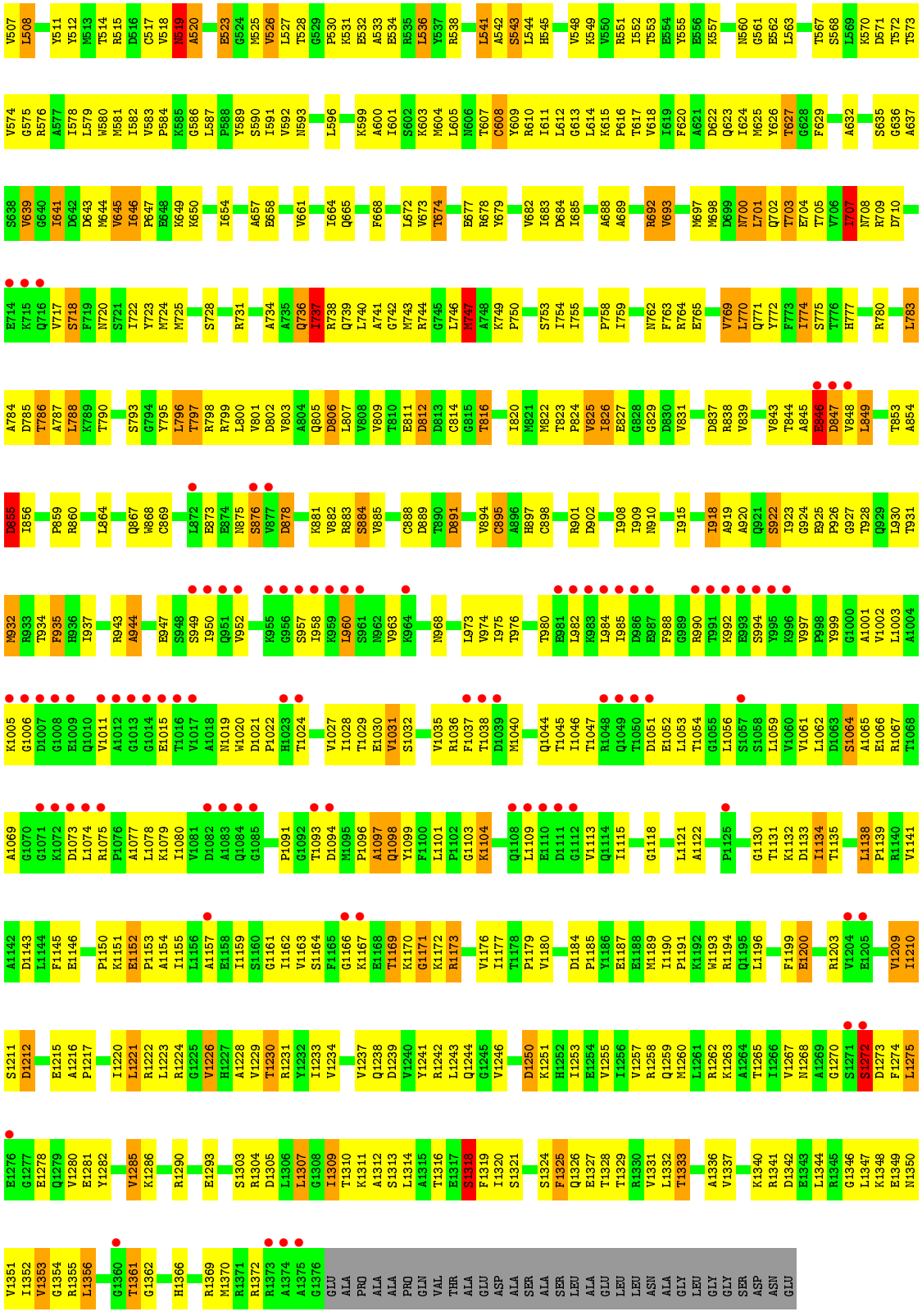
G927 T928 Q929 L930 T931 M932 F935 A940 A941 S942 R943 A944 A945 A946 E947 S948 S949 I950 N954 K955 G956 S957 I958 K959 L960 S961 N962 V963 K964 S965 V966 V967 N968 S969 S970 G971 K972 L973 V974 R978 N979 L982 K983 L984 I985 D986 E987 F988 G989 R990 T991 K992 E993 S994 Y995

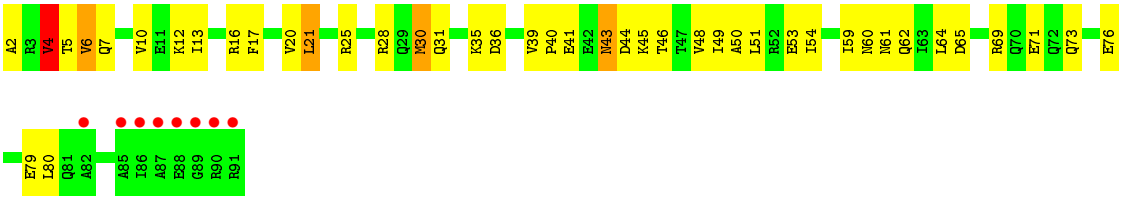


• Molecule 3: DNA-directed RNA polymerase subunit beta'

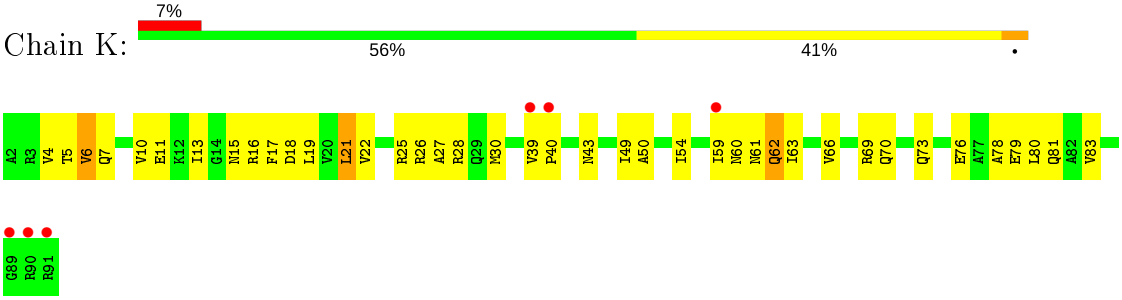




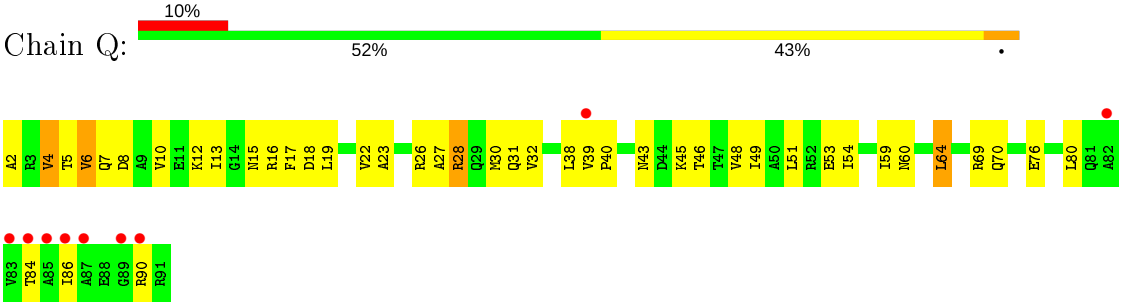
• Molecule 4: DNA-directed RNA polymerase subunit omega



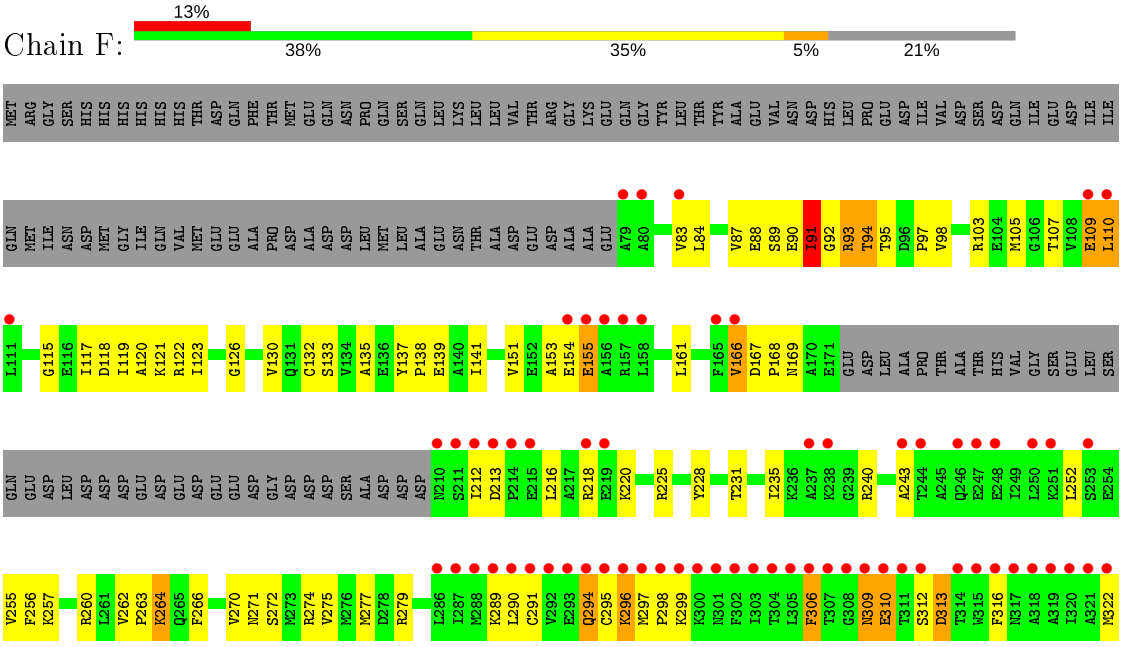
• Molecule 4: DNA-directed RNA polymerase subunit omega

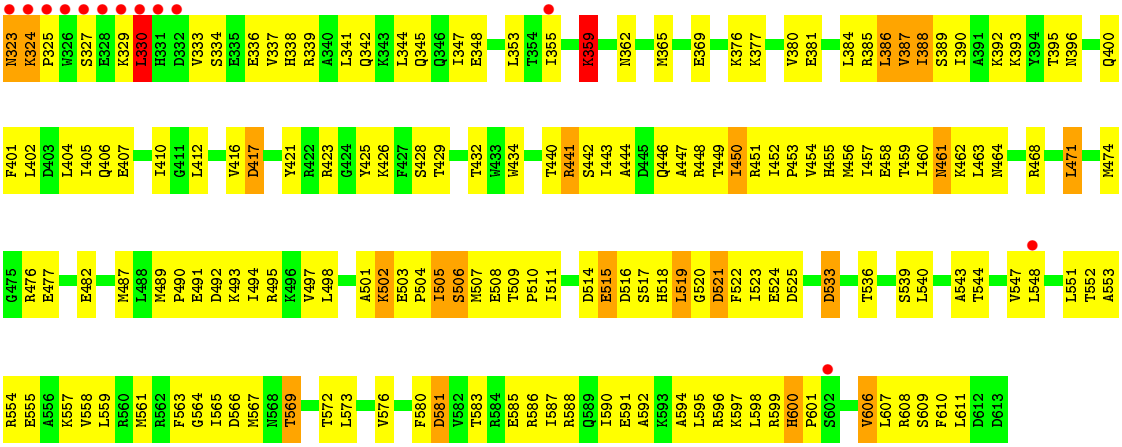


• Molecule 4: DNA-directed RNA polymerase subunit omega

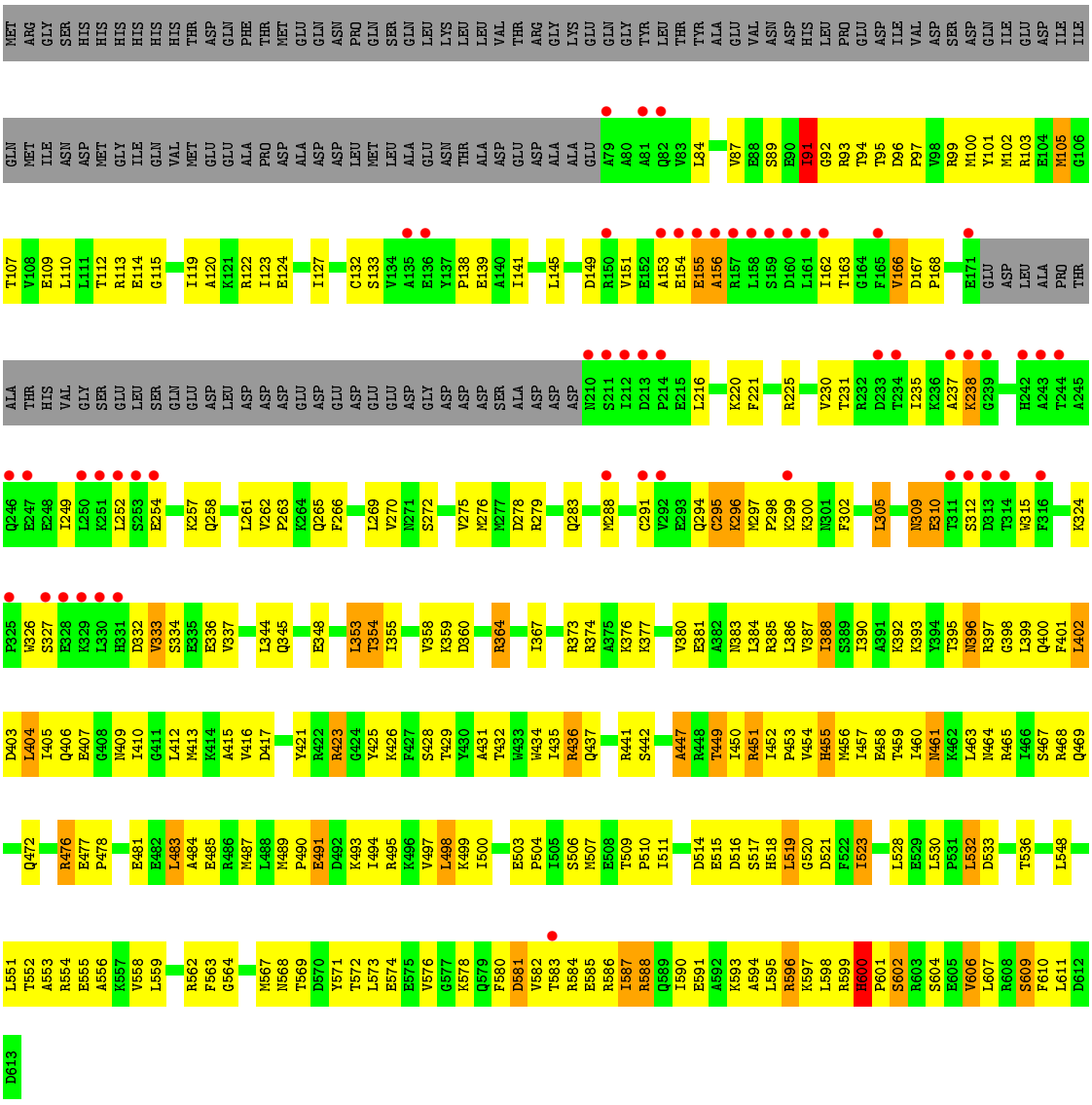


• Molecule 5: RNA polymerase sigma factor RpoD



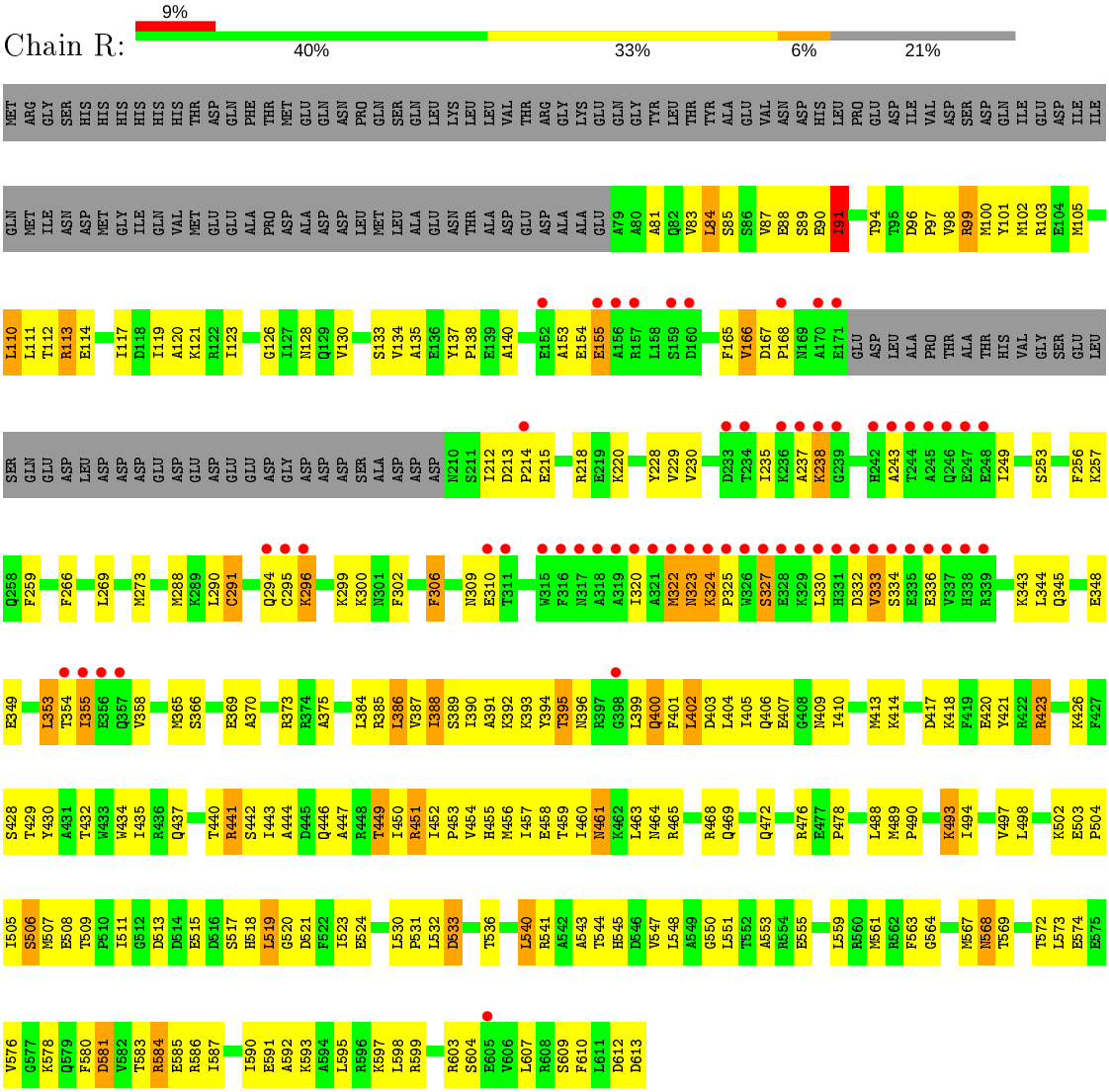


• Molecule 5: RNA polymerase sigma factor RpoD



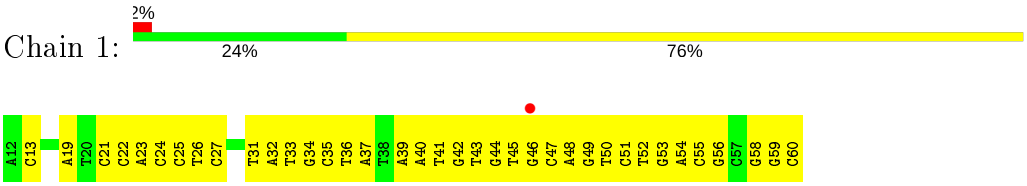
• Molecule 5: RNA polymerase sigma factor RpoD

Chain R:



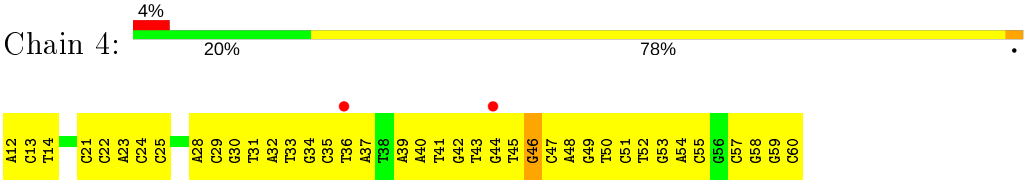
• Molecule 6: NT strand DNA (49-MER)

Chain 1:



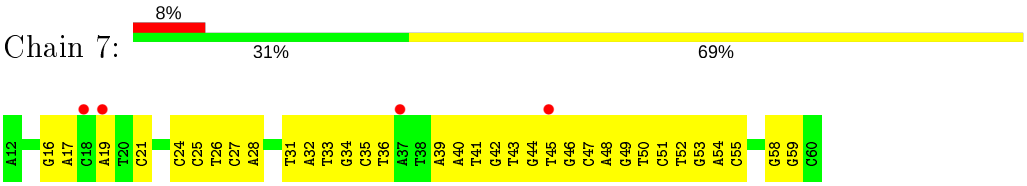
• Molecule 6: NT strand DNA (49-MER)

Chain 4:



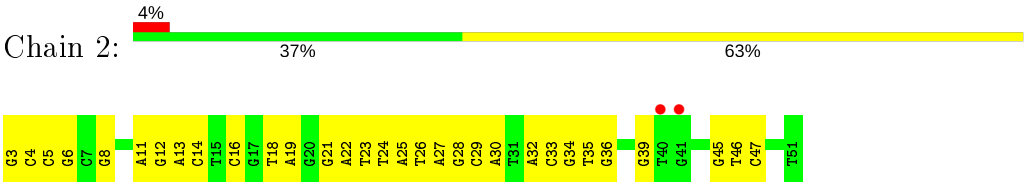
• Molecule 6: NT strand DNA (49-MER)

Chain 7:



• Molecule 7: T strand DNA (49-MER)

Chain 2:

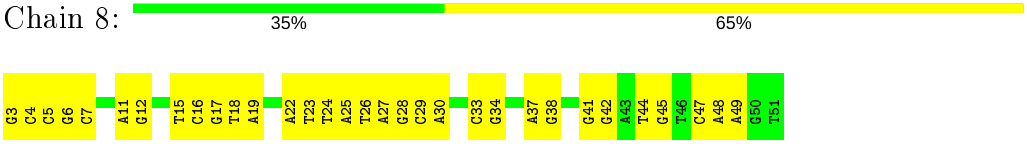


• Molecule 7: T strand DNA (49-MER)

Chain 5:

• Molecule 7: T strand DNA (49-MER)

Chain 8:



• Molecule 8: RNA (5'-D(*(GTP))-R(P*AP*GP*U)-3')

Chain 3:

• Molecule 8: RNA (5'-D(*(GTP))-R(P*AP*GP*U)-3')

Chain 6:

• Molecule 8: RNA (5'-D(*(GTP))-R(P*AP*GP*U)-3')

Chain 9:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	240.89Å 208.17Å 256.32Å 90.00° 119.31° 90.00°	Depositor
Resolution (Å)	39.95 – 6.00 39.95 – 6.00	Depositor EDS
% Data completeness (in resolution range)	99.6 (39.95-6.00) 100.0 (39.95-6.00)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.44 (at 6.13Å)	Xtriage
Refinement program	REFMAC 5.8.0073	Depositor
R, R_{free}	0.227 , 0.314 0.227 , 0.314	Depositor DCC
R_{free} test set	2938 reflections (5.31%)	wwPDB-VP
Wilson B-factor (Å^2)	343.5	Xtriage
Anisotropy	0.527	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 253.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.43$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	0.035 for h,-k,-h-l	Xtriage
F_o,F_c correlation	0.93	EDS
Total number of atoms	94608	wwPDB-VP
Average B, all atoms (Å^2)	238.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 2.84% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.59	0/1809	0.85	2/2450 (0.1%)
1	B	0.57	0/1789	0.84	1/2425 (0.0%)
1	G	0.60	1/1809 (0.1%)	0.83	1/2450 (0.0%)
1	H	0.57	0/1789	0.79	1/2425 (0.0%)
1	M	0.63	0/1809	0.87	2/2450 (0.1%)
1	N	0.60	0/1789	0.87	0/2425
2	C	0.58	3/10745 (0.0%)	0.79	11/14499 (0.1%)
2	I	0.61	3/10745 (0.0%)	0.81	3/14499 (0.0%)
2	O	0.61	4/10745 (0.0%)	0.81	4/14499 (0.0%)
3	D	0.66	3/10729 (0.0%)	0.91	20/14487 (0.1%)
3	J	0.63	2/10729 (0.0%)	0.85	15/14487 (0.1%)
3	P	0.59	4/10729 (0.0%)	0.80	9/14487 (0.1%)
4	E	0.62	0/710	0.89	1/956 (0.1%)
4	K	0.56	0/710	0.72	0/956
4	Q	0.55	0/710	0.74	1/956 (0.1%)
5	F	0.56	2/4076 (0.0%)	0.77	1/5482 (0.0%)
5	L	0.59	0/4076	0.78	2/5482 (0.0%)
5	R	0.55	0/4076	0.77	2/5482 (0.0%)
6	1	0.39	0/1112	0.67	0/1706
6	4	0.51	1/1114 (0.1%)	0.73	0/1714
6	7	0.39	0/1115	0.70	0/1718
7	2	0.38	0/1136	0.66	0/1752
7	5	0.41	0/1137	0.69	0/1756
7	8	0.36	0/1137	0.68	0/1756
8	3	0.33	0/72	0.58	0/110
8	6	0.50	0/72	0.71	0/110
8	9	0.50	0/72	0.65	0/110
All	All	0.59	23/96541 (0.0%)	0.81	76/131629 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected

by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
3	J	0	1
3	P	0	1
All	All	0	2

All (23) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	O	316	GLU	CD-OE2	13.14	1.40	1.25
3	J	943	ARG	CZ-NH1	11.93	1.48	1.33
3	D	431	ARG	CZ-NH1	11.55	1.48	1.33
2	I	565	GLU	CB-CG	10.38	1.71	1.52
3	P	1152	GLU	CD-OE2	-9.69	1.15	1.25
2	C	641	GLU	CB-CG	8.01	1.67	1.52
2	O	316	GLU	CD-OE1	7.74	1.34	1.25
5	F	359	LYS	CE-NZ	7.47	1.67	1.49
3	P	1272	SER	CB-OG	7.36	1.51	1.42
5	F	359	LYS	CD-CE	7.02	1.68	1.51
3	P	846	GLU	CD-OE1	6.72	1.33	1.25
2	O	252	SER	CB-OG	6.45	1.50	1.42
6	4	46	DG	O3'-P	6.33	1.68	1.61
3	D	70	CYS	CB-SG	6.14	1.92	1.82
3	D	431	ARG	CZ-NH2	5.83	1.40	1.33
2	I	119	GLU	CD-OE1	5.77	1.31	1.25
2	C	1289	GLU	CG-CD	5.51	1.60	1.51
3	J	236	TRP	CB-CG	5.50	1.60	1.50
2	O	626	GLU	CD-OE1	5.44	1.31	1.25
1	G	182	ARG	NE-CZ	5.32	1.40	1.33
3	P	846	GLU	CD-OE2	5.19	1.31	1.25
2	I	279	LYS	CG-CD	5.18	1.70	1.52
2	C	847	PRO	N-CD	5.01	1.54	1.47

All (76) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	F	359	LYS	CG-CD-CE	-8.94	85.08	111.90
3	D	431	ARG	NE-CZ-NH2	-8.33	116.13	120.30
3	J	943	ARG	NE-CZ-NH2	-8.10	116.25	120.30
1	M	29	GLU	C-N-CD	-7.94	103.14	120.60
3	D	376	LEU	CA-CB-CG	-7.68	97.62	115.30
3	D	120	LEU	C-N-CD	-7.18	104.81	120.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	J	943	ARG	NH1-CZ-NH2	-7.18	111.50	119.40
3	D	1332	LEU	CA-CB-CG	-7.09	98.98	115.30
3	D	619	ILE	CB-CA-C	-7.02	97.56	111.60
3	J	342	LEU	CA-CB-CG	-6.89	99.44	115.30
3	P	737	ILE	CB-CA-C	-6.87	97.85	111.60
3	P	139	LEU	CA-CB-CG	-6.82	99.63	115.30
3	D	1234	VAL	CB-CA-C	-6.75	98.57	111.40
3	D	84	ILE	CB-CA-C	-6.62	98.36	111.60
1	A	224	LEU	CA-CB-CG	-6.55	100.23	115.30
3	J	120	LEU	C-N-CD	-6.46	106.38	120.60
3	D	185	ILE	CB-CA-C	-6.34	98.92	111.60
4	E	21	LEU	CA-CB-CG	-6.25	100.92	115.30
1	G	182	ARG	NE-CZ-NH1	6.25	123.42	120.30
3	P	747	MET	CG-SD-CE	-6.19	90.29	100.20
3	D	872	LEU	CA-CB-CG	-6.11	101.25	115.30
1	H	29	GLU	C-N-CD	-6.07	107.25	120.60
3	J	1332	LEU	CA-CB-CG	-6.02	101.45	115.30
1	B	13	LEU	CA-CB-CG	5.96	129.00	115.30
3	D	1229	VAL	CB-CA-C	-5.93	100.12	111.40
3	J	1255	VAL	CB-CA-C	-5.90	100.19	111.40
3	D	472	LEU	CB-CG-CD2	5.85	120.95	111.00
2	I	498	ILE	CB-CA-C	-5.85	99.90	111.60
3	D	1287	ILE	CB-CA-C	-5.76	100.08	111.60
3	D	820	ILE	CB-CA-C	-5.76	100.08	111.60
2	O	1233	LEU	CA-CB-CG	-5.74	102.10	115.30
2	O	1253	LEU	CA-CB-CG	-5.73	102.12	115.30
3	J	943	ARG	NE-CZ-NH1	5.72	123.16	120.30
2	C	1253	LEU	CA-CB-CG	-5.72	102.15	115.30
2	I	57	PHE	C-N-CD	-5.71	108.04	120.60
3	P	541	LEU	CA-CB-CG	-5.68	102.24	115.30
3	P	864	LEU	CA-CB-CG	-5.66	102.29	115.30
3	D	506	VAL	CB-CA-C	-5.65	100.66	111.40
2	C	1308	ILE	CB-CA-C	-5.65	100.30	111.60
2	C	428	VAL	CB-CA-C	-5.61	100.73	111.40
3	D	1351	VAL	CB-CA-C	-5.61	100.74	111.40
3	P	24	LEU	CA-CB-CG	-5.61	102.40	115.30
2	C	1339	LEU	CA-CB-CG	5.59	128.16	115.30
3	P	774	ILE	CB-CA-C	-5.56	100.47	111.60
3	D	601	ILE	CB-CA-C	-5.47	100.66	111.60
3	J	774	ILE	CB-CA-C	-5.46	100.68	111.60
3	J	72	CYS	CA-CB-SG	5.45	123.81	114.00
2	C	1290	MET	CB-CG-SD	-5.44	96.08	112.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	O	946	LEU	CA-CB-CG	-5.38	102.92	115.30
3	D	973	LEU	CA-CB-CG	5.38	127.67	115.30
2	I	210	LEU	CA-CB-CG	-5.37	102.94	115.30
3	J	1347	LEU	CA-CB-CG	5.34	127.59	115.30
2	C	623	LEU	CA-CB-CG	5.33	127.56	115.30
5	L	305	LEU	CA-CB-CG	5.33	127.56	115.30
3	D	387	LEU	CA-CB-CG	5.30	127.50	115.30
3	J	803	VAL	CB-CA-C	-5.29	101.35	111.40
2	C	30	ILE	CB-CA-C	-5.27	101.05	111.60
5	R	111	LEU	CA-CB-CG	5.26	127.40	115.30
2	C	57	PHE	C-N-CD	-5.24	109.08	120.60
5	R	386	LEU	CA-CB-CG	5.18	127.21	115.30
1	A	43	LEU	CA-CB-CG	5.17	127.19	115.30
3	P	78	LEU	CA-CB-CG	5.16	127.16	115.30
2	C	498	ILE	CB-CA-C	-5.15	101.30	111.60
5	L	398	GLY	N-CA-C	-5.15	100.23	113.10
2	C	577	VAL	CB-CA-C	-5.15	101.62	111.40
3	J	376	LEU	CA-CB-CG	-5.13	103.50	115.30
4	Q	64	LEU	CA-CB-CG	-5.12	103.53	115.30
3	D	283	LEU	CA-CB-CG	5.09	127.00	115.30
3	J	139	LEU	CA-CB-CG	-5.08	103.61	115.30
3	J	38	VAL	CB-CA-C	-5.07	101.77	111.40
3	J	1177	ILE	CB-CA-C	-5.06	101.47	111.60
1	M	47	LEU	CA-CB-CG	-5.06	103.66	115.30
3	P	960	LEU	CA-CB-CG	5.06	126.93	115.30
2	C	317	LEU	CB-CG-CD2	-5.03	102.45	111.00
3	D	541	LEU	CB-CA-C	5.02	119.74	110.20
2	O	623	LEU	CA-CB-CG	5.00	126.81	115.30

There are no chirality outliers.

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	J	943	ARG	Sidechain
3	P	210	SER	Peptide

5.2 Too-close contacts (i)

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

the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	1787	0	1813	190	0
1	B	1767	0	1789	200	0
1	G	1787	0	1813	179	0
1	H	1767	0	1789	145	0
1	M	1787	0	1813	260	0
1	N	1767	0	1789	213	0
2	C	10576	0	10591	945	0
2	I	10576	0	10591	991	0
2	O	10576	0	10591	1002	1
3	D	10568	0	10781	1353	1
3	J	10568	0	10782	1175	0
3	P	10568	0	10780	1041	1
4	E	708	0	719	65	0
4	K	708	0	719	40	0
4	Q	708	0	719	46	0
5	F	4022	0	4083	368	1
5	L	4022	0	4083	367	0
5	R	4022	0	4083	348	0
6	1	996	0	557	71	0
6	4	996	0	555	103	1
6	7	996	0	554	69	0
7	2	1012	0	554	65	0
7	5	1012	0	553	62	0
7	8	1012	0	553	66	0
8	3	97	0	44	21	0
8	6	97	0	44	6	0
8	9	97	0	44	19	0
9	C	1	0	0	0	0
9	J	1	0	0	0	0
9	P	1	0	0	0	0
10	D	2	0	0	2	0
10	J	2	0	0	2	0
10	P	2	0	0	1	0
All	All	94608	0	92786	8368	3

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 45.

All (8368) 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)
5:F:359:LYS:NZ	5:F:359:LYS:CE	1.67	1.54
3:D:484:MET:SD	3:D:484:MET:CE	2.03	1.46
3:P:139:LEU:CD2	3:P:185:ILE:HD11	1.49	1.43
3:J:367:GLY:O	3:J:447:ILE:CG2	1.68	1.38
1:G:25:LYS:NZ	1:G:202:VAL:HG11	1.34	1.37
3:J:115:TRP:CH2	3:J:1329:THR:HA	1.60	1.37
5:F:585:GLU:HG2	7:2:46:DT:C7	1.53	1.36
1:M:39:LEU:O	1:M:43:LEU:HG	1.26	1.35
3:D:1282:TYR:O	3:D:1285:VAL:HG12	1.14	1.32
1:N:35:PHE:O	1:N:39:LEU:HG	1.13	1.31
2:C:755:LYS:NZ	2:C:767:GLN:O	1.62	1.31
1:A:228:LEU:HA	1:A:231:PHE:CE2	1.67	1.28
3:D:395:LYS:O	3:D:398:LYS:HG3	1.30	1.28
2:I:1275:VAL:O	2:I:1279:GLU:HG3	1.34	1.28
1:M:42:ALA:HA	1:N:38:THR:CG2	1.64	1.28
5:F:137:TYR:CE1	5:F:353:LEU:HD11	1.69	1.28
1:B:213:PRO:O	1:B:217:ILE:HD13	1.30	1.27
3:D:112:ALA:HA	3:D:238:ILE:CD1	1.63	1.27
1:A:35:PHE:O	1:A:39:LEU:HG	1.34	1.27
2:C:448:LEU:HD11	2:C:553:THR:O	1.34	1.25
3:D:181:GLY:O	3:D:185:ILE:CD1	1.83	1.25
3:D:112:ALA:CA	3:D:238:ILE:HD11	1.65	1.25
3:D:1226:VAL:O	3:D:1229:VAL:HG13	1.33	1.25
3:J:367:GLY:O	3:J:447:ILE:HG23	1.18	1.25
2:I:237:LEU:CD1	2:I:289:VAL:HG22	1.65	1.23
3:D:281:ARG:HH22	5:F:441:ARG:NH2	1.35	1.23
3:J:501:VAL:CG1	3:J:502:PRO:HD2	1.67	1.23
5:F:458:GLU:HA	5:F:461:ASN:ND2	1.51	1.23
1:M:35:PHE:O	1:M:39:LEU:HG	1.35	1.22
3:P:337:ARG:HD3	3:P:341:ASN:ND2	1.55	1.22
1:A:47:LEU:HD13	1:A:183:ILE:CD1	1.70	1.21
1:M:224:LEU:HD12	1:M:224:LEU:O	1.40	1.21
3:D:281:ARG:NH2	5:F:441:ARG:HH22	1.36	1.21
1:B:68:TYR:CE1	1:B:79:LEU:HD21	1.74	1.20
1:N:88:LEU:HD11	1:N:128:HIS:CD2	1.76	1.20
2:C:206:ALA:O	2:C:209:ILE:CG2	1.88	1.20
3:J:1221:LEU:HD13	3:J:1229:VAL:HG11	1.22	1.20
1:N:88:LEU:HD11	1:N:128:HIS:NE2	1.55	1.20
2:I:533:LEU:HD23	2:I:538:LEU:O	1.35	1.19
5:R:110:LEU:H	5:R:110:LEU:HD12	1.04	1.19
1:A:180:VAL:HA	1:A:207:THR:HG22	1.20	1.19
1:M:180:VAL:HA	1:M:207:THR:CG2	1.72	1.18

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:132:CYS:SG	5:F:257:LYS:CE	2.30	1.18
5:F:520:GLY:HA2	5:F:523:ILE:HD12	1.21	1.18
3:J:915:ILE:O	3:J:918:ILE:HG22	1.41	1.18
3:P:608:CYS:SG	3:P:617:THR:HG22	1.84	1.18
3:J:1282:TYR:O	3:J:1285:VAL:HG12	1.42	1.18
3:D:1226:VAL:O	3:D:1229:VAL:CG1	1.91	1.17
5:F:520:GLY:HA2	5:F:523:ILE:CD1	1.73	1.17
2:I:206:ALA:O	2:I:209:ILE:HG22	1.45	1.17
3:J:749:LYS:HB3	3:J:750:PRO:CD	1.74	1.17
5:R:583:THR:HG21	5:R:586:ARG:HB3	1.21	1.17
3:P:508:LEU:O	3:P:508:LEU:HD12	1.01	1.16
5:F:132:CYS:SG	5:F:257:LYS:HE2	1.85	1.16
3:J:608:CYS:SG	3:J:617:THR:HG22	1.84	1.16
3:J:749:LYS:HD2	3:J:753:SER:CB	1.75	1.16
3:P:739:GLN:HG2	3:P:744:ARG:HG3	1.17	1.16
3:D:1327:GLU:O	3:D:1331:VAL:HG23	1.46	1.16
3:D:395:LYS:HA	3:D:398:LYS:HE3	1.27	1.16
4:E:39:VAL:HG13	4:E:40:PRO:CD	1.73	1.16
3:P:508:LEU:CD1	3:P:508:LEU:O	1.94	1.16
3:J:115:TRP:CZ2	3:J:1329:THR:HG22	1.79	1.16
3:P:373:ALA:HA	3:P:376:LEU:HD12	1.28	1.15
1:N:38:THR:HB	1:N:39:LEU:CD2	1.76	1.15
3:P:242:LEU:HD12	3:P:243:PRO:HD2	1.23	1.15
5:F:583:THR:HG23	5:F:586:ARG:HB3	1.21	1.15
3:J:849:LEU:CD2	3:J:857:LEU:HA	1.77	1.15
3:J:128:LEU:HD11	3:J:189:LEU:HD21	1.22	1.15
1:B:100:LEU:HD13	1:B:115:ILE:CG2	1.77	1.15
3:D:975:ILE:HD13	3:D:980:THR:HG21	1.18	1.15
3:D:464:ASP:OD1	8:3:15:G:O2'	1.64	1.15
1:M:43:LEU:O	1:M:47:LEU:HG	1.46	1.14
3:P:747:MET:CE	3:P:774:ILE:HG21	1.75	1.14
2:C:1327:LEU:HD23	2:C:1337:ILE:HD11	1.20	1.14
2:I:700:VAL:HG13	2:I:1117:LEU:HD22	1.17	1.14
1:G:91:ARG:HD2	1:G:124:VAL:CG2	1.77	1.14
3:P:575:GLY:HA2	3:P:578:ILE:HD12	1.15	1.14
5:R:583:THR:HG21	5:R:586:ARG:CB	1.78	1.14
3:P:508:LEU:C	3:P:508:LEU:HD12	1.50	1.14
1:A:38:THR:CG2	1:B:42:ALA:HA	1.76	1.13
2:C:1271:GLY:O	2:C:1275:VAL:HG23	1.48	1.13
3:D:470:VAL:HB	3:D:472:LEU:HD21	1.14	1.13
3:P:527:LEU:HD13	3:P:532:GLU:HG2	1.30	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:805:GLN:CB	3:J:1347:LEU:HD12	1.77	1.13
3:J:848:VAL:O	3:J:849:LEU:HD23	1.47	1.13
5:F:585:GLU:CG	7:2:46:DT:C7	2.25	1.13
1:G:41:ASN:O	1:G:45:ARG:HG3	1.49	1.13
2:I:137:VAL:C	2:I:138:ILE:HD13	1.68	1.13
1:M:35:PHE:O	1:M:39:LEU:CG	1.97	1.13
3:D:1282:TYR:O	3:D:1285:VAL:CG1	1.94	1.12
3:D:186:GLN:HA	3:D:189:LEU:HD12	1.28	1.12
3:J:849:LEU:HD21	3:J:857:LEU:HA	1.26	1.12
3:J:843:VAL:HG12	3:J:883:ARG:HB3	1.25	1.12
3:D:363:LEU:CD2	3:D:618:VAL:HG13	1.79	1.12
1:G:25:LYS:NZ	1:G:202:VAL:CG1	2.13	1.12
1:M:45:ARG:NH1	2:O:1215:GLY:O	1.82	1.12
2:O:639:LYS:O	2:O:639:LYS:HG2	1.46	1.12
3:D:185:ILE:H	3:D:185:ILE:CD1	1.61	1.12
5:F:583:THR:CG2	5:F:586:ARG:HB3	1.77	1.12
3:P:425:ARG:NH1	3:P:426:ALA:O	1.81	1.12
5:F:551:LEU:HD22	5:F:597:LYS:HD2	1.23	1.12
3:J:771:GLN:HA	3:J:774:ILE:HD12	1.25	1.12
5:L:451:ARG:NH1	5:L:453:PRO:HG3	1.62	1.12
2:O:897:PRO:HB3	5:R:563:PHE:O	1.49	1.12
3:P:88:CYS:SG	10:P:1501:ZN:ZN	1.38	1.12
1:A:224:LEU:HD23	1:B:228:LEU:HD11	1.32	1.11
2:C:1086:PRO:O	2:C:1094:VAL:HG23	1.50	1.11
5:F:457:ILE:O	5:F:461:ASN:OD1	1.65	1.11
1:G:79:LEU:HA	1:G:82:LEU:HD12	1.33	1.11
2:C:402:ARG:HG2	2:C:416:GLY:HA3	1.19	1.11
3:P:337:ARG:HD3	3:P:341:ASN:HD21	0.99	1.11
5:F:84:LEU:CD1	5:F:107:THR:HG21	1.78	1.11
2:I:201:ARG:HB2	2:I:369:MET:HE1	1.30	1.11
1:N:35:PHE:O	1:N:39:LEU:CG	1.97	1.11
2:O:1086:PRO:O	2:O:1094:VAL:HG23	1.49	1.11
3:J:482:ALA:O	3:J:488:ASN:ND2	1.83	1.11
3:J:909:ILE:HD11	3:J:913:GLU:HB3	1.31	1.11
3:J:294:ASN:HD21	5:L:101:TYR:HB2	1.02	1.11
1:N:39:LEU:HD23	1:N:39:LEU:N	1.60	1.11
3:P:1138:LEU:HB3	3:P:1139:PRO:HD3	1.14	1.11
5:F:450:ILE:HD13	5:F:450:ILE:H	1.02	1.11
2:O:297:VAL:HG13	2:O:317:LEU:HD21	1.16	1.10
1:B:100:LEU:HD13	1:B:115:ILE:HG21	1.15	1.10
5:L:449:THR:OG1	5:L:504:PRO:HG3	1.51	1.10

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:235:ILE:CD1	5:R:249:ILE:HD11	1.80	1.10
2:I:168:GLY:O	3:J:1065:ALA:HA	1.48	1.10
1:A:47:LEU:HD13	1:A:183:ILE:HD13	1.10	1.10
1:G:69:SER:O	1:G:78:ILE:HG13	1.52	1.10
1:M:38:THR:HG23	1:N:42:ALA:HA	1.25	1.10
1:A:45:ARG:HD3	1:B:38:THR:OG1	1.51	1.10
3:D:1333:THR:O	3:D:1337:VAL:HG23	1.51	1.10
3:D:806:ASP:OD1	3:D:1346:GLY:HA2	1.51	1.09
2:C:206:ALA:O	2:C:209:ILE:HG22	1.45	1.09
2:I:237:LEU:HD12	2:I:289:VAL:HG22	1.19	1.09
3:J:353:SER:HB2	3:J:372:MET:HE1	1.11	1.09
5:L:102:MET:HE2	6:4:42:DG:N3	1.66	1.09
5:F:553:ALA:O	5:F:557:LYS:HG2	1.52	1.09
2:O:1298:VAL:O	2:O:1302:THR:HG22	1.50	1.09
3:D:1253:ILE:HD12	3:D:1253:ILE:H	1.10	1.09
3:D:337:ARG:HD3	3:D:341:ASN:HD22	1.15	1.09
1:M:180:VAL:CA	1:M:207:THR:HG22	1.79	1.09
2:O:402:ARG:HG2	2:O:416:GLY:HA3	1.33	1.09
2:C:975:ILE:O	2:C:979:LEU:HG	1.52	1.09
3:J:385:LEU:HD13	3:J:397:ALA:CB	1.83	1.09
1:M:47:LEU:CD1	1:M:183:ILE:CD1	2.31	1.09
2:O:298:ALA:HB3	2:O:334:GLU:HB3	1.09	1.09
2:O:524:ILE:HD11	2:O:712:SER:HB3	1.18	1.09
2:O:727:VAL:HG23	2:O:773:LEU:HD13	1.33	1.09
2:C:1282:GLY:O	3:D:1361:THR:OG1	1.70	1.09
3:J:770:LEU:O	3:J:774:ILE:HG13	1.51	1.09
2:I:1330:ILE:HA	2:I:1333:LEU:HD12	1.34	1.09
3:J:749:LYS:CD	3:J:753:SER:HB2	1.82	1.09
5:L:457:ILE:O	5:L:461:ASN:OD1	1.68	1.09
3:P:747:MET:CE	3:P:774:ILE:CG2	2.30	1.09
5:F:216:LEU:O	5:F:220:LYS:HG2	1.53	1.09
3:J:242:LEU:HD12	3:J:243:PRO:HD2	1.25	1.09
5:L:584:ARG:O	5:L:587:ILE:HG12	1.51	1.08
3:D:835:LEU:HG	3:D:836:ARG:N	1.65	1.08
3:D:1328:THR:O	3:D:1332:LEU:HG	1.51	1.08
2:I:559:CYS:SG	2:I:661:VAL:HG13	1.93	1.08
2:C:524:ILE:HD11	2:C:712:SER:HB3	1.29	1.08
2:C:886:LYS:HD2	2:C:916:SER:HB2	1.35	1.08
5:F:137:TYR:HE1	5:F:353:LEU:CD1	1.66	1.08
1:G:9:LEU:HD21	1:G:198:LEU:HD21	1.16	1.08
1:G:224:LEU:HG	1:H:228:LEU:HD11	1.21	1.08

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:62:PHE:HB3	3:J:98:ARG:HG2	1.23	1.08
5:R:457:ILE:O	5:R:461:ASN:OD1	1.72	1.08
4:E:39:VAL:CG1	4:E:40:PRO:HD2	1.82	1.08
3:J:373:ALA:HA	3:J:376:LEU:HD12	1.28	1.08
1:N:44:ARG:HH12	3:P:538:ARG:HD2	1.17	1.08
5:R:583:THR:CG2	5:R:586:ARG:HB3	1.83	1.08
3:P:139:LEU:CD2	3:P:185:ILE:CD1	2.32	1.08
2:C:566:GLY:O	2:C:569:ILE:HG22	1.52	1.08
2:O:1142:ARG:HH22	2:O:1169:VAL:HG21	1.16	1.08
2:I:1337:ILE:HD12	3:J:22:ILE:HG12	1.33	1.08
5:L:587:ILE:HD13	5:L:587:ILE:N	1.56	1.08
3:P:1344:LEU:HA	3:P:1349:GLU:OE1	1.52	1.07
3:P:801:VAL:HG22	3:P:920:ALA:HB1	1.31	1.07
2:C:1151:LEU:CD2	2:C:1198:LEU:HD13	1.83	1.07
5:F:84:LEU:HD11	5:F:107:THR:HG21	1.36	1.07
1:M:44:ARG:HA	1:M:47:LEU:HD12	1.26	1.07
2:O:211:ARG:HD3	2:O:357:ASN:O	1.53	1.07
3:D:839:VAL:HG13	3:D:864:LEU:HD13	1.30	1.07
2:I:319:LEU:HA	2:I:322:LEU:HD12	1.34	1.07
2:I:524:ILE:HD11	2:I:712:SER:HB3	1.36	1.07
3:J:342:LEU:HD22	3:J:1352:ILE:HG23	1.32	1.07
3:P:1230:THR:O	3:P:1234:VAL:HG23	1.53	1.07
2:C:1258:PRO:HG2	3:D:346:ARG:CB	1.85	1.07
5:R:518:HIS:O	5:R:520:GLY:N	1.87	1.07
5:F:457:ILE:HA	5:F:460:ILE:HD12	1.30	1.07
1:M:42:ALA:HA	1:N:38:THR:HG23	1.37	1.07
1:G:59:VAL:HG22	1:G:144:ILE:HG23	1.31	1.07
2:O:178:PRO:HA	2:O:397:LEU:HD23	1.33	1.07
7:5:25:DA:H1'	7:5:26:DT:H5"	1.30	1.07
3:D:470:VAL:HB	3:D:472:LEU:CD2	1.84	1.07
1:N:38:THR:HB	1:N:39:LEU:HD21	1.35	1.07
3:D:363:LEU:HD23	3:D:618:VAL:HG13	1.34	1.06
1:N:47:LEU:O	1:N:51:MET:HG2	1.55	1.06
3:D:185:ILE:N	3:D:185:ILE:HD12	1.62	1.06
5:F:551:LEU:CD2	5:F:597:LYS:HD2	1.85	1.06
1:A:42:ALA:HA	1:B:38:THR:HG23	1.12	1.06
3:J:771:GLN:HA	3:J:774:ILE:CD1	1.84	1.06
3:P:421:VAL:HG23	3:P:439:PRO:HG3	1.33	1.06
3:D:181:GLY:O	3:D:185:ILE:HD11	1.56	1.06
2:C:1258:PRO:HG2	3:D:346:ARG:HB3	1.37	1.06
1:M:225:ALA:HB2	1:N:228:LEU:CD1	1.85	1.06

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:228:LEU:HD21	1:B:224:LEU:CD2	1.84	1.06
3:J:886:VAL:HG11	3:J:1261:LEU:CD1	1.84	1.06
2:O:161:LYS:HA	2:O:161:LYS:HE2	1.28	1.06
3:D:268:LEU:HD13	3:D:306:LEU:HA	1.38	1.06
3:P:846:GLU:OE1	3:P:881:LYS:HD3	1.54	1.06
3:D:1156:LEU:HD22	3:D:1209:VAL:HA	1.34	1.06
2:I:106:GLU:HG2	2:I:115:LYS:HB2	1.34	1.06
3:J:385:LEU:HD13	3:J:397:ALA:HB1	1.07	1.06
3:D:575:GLY:HA2	3:D:578:ILE:HD12	1.06	1.05
5:L:166:VAL:HG12	5:L:168:PRO:HD3	1.38	1.05
1:M:47:LEU:HD12	1:M:183:ILE:HD11	1.35	1.05
2:C:1199:LEU:CD2	2:C:1204:LEU:HD13	1.86	1.05
2:I:184:LEU:HD21	2:I:389:PHE:CE2	1.91	1.05
3:P:139:LEU:HD22	3:P:185:ILE:HD11	1.36	1.05
2:O:1142:ARG:NH2	2:O:1169:VAL:HG21	1.71	1.05
2:O:823:VAL:HG12	2:O:1059:ARG:CZ	1.85	1.05
1:A:228:LEU:HD11	1:B:224:LEU:HD11	1.10	1.05
3:D:1230:THR:O	3:D:1234:VAL:HG23	1.56	1.05
2:O:1129:ASN:OD1	2:O:1133:LYS:HE3	1.56	1.05
3:D:783:LEU:O	3:D:786:THR:HG22	1.57	1.05
2:I:828:PHE:O	2:I:1234:LYS:NZ	1.87	1.05
3:D:130:MET:HG2	3:D:135:ILE:HG12	1.38	1.05
2:O:333:ILE:HG22	2:O:334:GLU:H	1.18	1.05
3:J:744:ARG:NH2	3:J:940:ALA:HB2	1.72	1.05
3:D:796:LEU:HG	3:D:797:THR:N	1.69	1.04
1:G:232:VAL:HG13	1:H:218:ARG:HG2	1.33	1.04
3:J:139:LEU:CD2	3:J:185:ILE:HD11	1.85	1.04
2:O:18:ARG:NH1	2:O:623:LEU:HD12	1.69	1.04
1:B:100:LEU:CD1	1:B:115:ILE:HG21	1.86	1.04
4:E:39:VAL:HG13	4:E:40:PRO:HD2	1.06	1.04
1:M:224:LEU:HD12	1:M:224:LEU:C	1.78	1.04
3:P:575:GLY:HA2	3:P:578:ILE:CD1	1.86	1.04
2:I:169:LYS:HD2	3:J:1067:ARG:O	1.57	1.04
2:C:148:GLN:NE2	2:C:533:LEU:O	1.90	1.04
3:P:555:TYR:HB3	3:P:563:LEU:HD22	1.32	1.04
3:J:826:ILE:CG2	3:J:826:ILE:O	2.01	1.04
3:J:65:VAL:HG13	3:J:98:ARG:HH12	1.20	1.04
2:O:1284:ALA:HB1	3:P:1356:LEU:HD22	1.32	1.04
2:O:331:LYS:O	2:O:332:ARG:HG3	1.57	1.04
5:R:235:ILE:HD11	5:R:249:ILE:CD1	1.87	1.04
2:C:1273:MET:SD	3:D:428:THR:HB	1.98	1.04

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1270:PHE:HB2	3:D:347:VAL:HG21	1.36	1.04
2:C:559:CYS:SG	2:C:661:VAL:HG12	1.96	1.04
3:J:367:GLY:O	3:J:447:ILE:HG22	1.57	1.04
1:M:154:PRO:HG2	1:M:157:THR:OG1	1.56	1.04
3:D:797:THR:HA	3:D:800:LEU:HD12	1.07	1.03
3:J:843:VAL:HG11	3:J:883:ARG:HD3	1.40	1.03
1:M:47:LEU:HD13	1:M:183:ILE:HD12	1.40	1.03
3:P:797:THR:HG23	3:P:924:GLY:CA	1.88	1.03
2:I:944:ARG:O	2:I:947:GLU:HG2	1.56	1.03
1:N:191:ARG:HG3	1:N:196:THR:HG22	1.38	1.03
3:D:1145:PHE:HE1	3:D:1256:ILE:HD12	1.23	1.03
3:D:349:TYR:O	3:D:470:VAL:HG23	1.59	1.03
2:I:1275:VAL:O	2:I:1279:GLU:CG	2.06	1.03
5:L:587:ILE:HD13	5:L:587:ILE:H	1.23	1.03
3:P:473:THR:HB	3:P:475:GLU:OE1	1.56	1.03
1:M:100:LEU:HD22	1:M:115:ILE:CG2	1.87	1.03
2:O:1128:ILE:O	2:O:1132:LEU:HG	1.56	1.03
2:O:1223:ARG:HG2	3:P:635:SER:O	1.57	1.03
3:P:421:VAL:HG23	3:P:439:PRO:CG	1.87	1.03
2:I:704:MET:O	2:I:708:VAL:HG23	1.58	1.03
2:C:436:ARG:NH1	2:C:436:ARG:O	1.91	1.03
2:C:831:ILE:HD12	2:C:831:ILE:H	1.20	1.03
3:D:130:MET:CG	3:D:135:ILE:HG12	1.88	1.03
3:J:501:VAL:HG13	3:J:502:PRO:CD	1.88	1.03
3:J:807:LEU:HD21	3:J:1259:GLN:HG2	1.36	1.03
3:P:747:MET:HE1	3:P:774:ILE:CG2	1.89	1.03
2:C:1151:LEU:HD22	2:C:1198:LEU:HD13	1.39	1.03
2:I:690:VAL:HG23	2:I:1234:LYS:O	1.58	1.03
3:D:1155:ILE:C	3:D:1156:LEU:HD23	1.80	1.02
1:H:82:LEU:HD22	1:H:173:VAL:HG21	1.36	1.02
1:M:40:GLY:HA2	1:M:43:LEU:HD12	1.40	1.02
3:D:1287:ILE:HG22	3:D:1288:ALA:N	1.68	1.02
3:J:1145:PHE:HB3	3:J:1309:ILE:HD11	1.37	1.02
3:D:1233:ILE:O	3:D:1237:VAL:HG23	1.59	1.02
4:E:46:THR:HA	4:E:49:ILE:HD12	1.04	1.02
5:L:386:LEU:HD13	6:4:41:DT:O4'	1.59	1.02
3:P:614:LEU:HD23	4:Q:7:GLN:HB2	1.40	1.02
3:J:749:LYS:HD2	3:J:753:SER:HB2	1.07	1.02
1:H:100:LEU:HD13	1:H:115:ILE:HG21	1.35	1.02
1:M:214:GLU:HA	1:M:217:ILE:HD12	1.42	1.02
2:O:448:LEU:HD23	2:O:448:LEU:O	1.59	1.02

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:213:PRO:O	1:B:217:ILE:CD1	2.07	1.02
1:A:228:LEU:HD21	1:B:224:LEU:HD21	1.04	1.02
2:O:1223:ARG:CG	3:P:635:SER:O	2.06	1.02
1:A:47:LEU:CD1	1:A:183:ILE:CD1	2.36	1.02
2:C:1323:PHE:HE1	2:C:1327:LEU:HD21	1.24	1.02
1:H:190:ALA:H	1:H:199:ASP:HA	1.24	1.02
2:I:542:ARG:NH2	6:4:49:DG:N7	2.06	1.02
3:D:620:PHE:O	3:D:624:ILE:HG13	1.60	1.01
2:O:297:VAL:CG1	2:O:317:LEU:HD21	1.90	1.01
2:C:1199:LEU:HD22	2:C:1204:LEU:HD13	1.40	1.01
3:D:185:ILE:H	3:D:185:ILE:HD12	0.87	1.01
3:J:353:SER:HB2	3:J:372:MET:CE	1.88	1.01
3:J:823:THR:HG22	3:J:879:ALA:HB2	1.40	1.01
2:O:1305:TYR:CE2	3:P:379:PRO:HB3	1.95	1.01
3:P:747:MET:HE1	3:P:774:ILE:HG21	1.05	1.01
1:M:16:ILE:HG12	1:M:26:VAL:HG13	1.39	1.01
3:J:182:ALA:HA	3:J:185:ILE:HD12	1.41	1.01
2:O:1273:MET:O	3:P:428:THR:HG21	1.61	1.01
2:O:1101:LEU:CD2	3:P:725:MET:HG2	1.90	1.01
3:D:130:MET:SD	3:D:135:ILE:HG12	2.00	1.01
3:D:395:LYS:O	3:D:398:LYS:CG	2.07	1.01
3:D:975:ILE:CD1	3:D:980:THR:HG21	1.90	1.01
3:J:805:GLN:HB2	3:J:1347:LEU:HD12	1.40	1.01
5:L:455:HIS:H	5:L:455:HIS:CD2	1.56	1.01
2:O:161:LYS:HA	2:O:161:LYS:CE	1.90	1.01
2:C:831:ILE:HD12	2:C:831:ILE:N	1.76	1.01
1:A:224:LEU:CD2	1:B:228:LEU:HD11	1.91	1.00
3:D:205:LEU:HD21	3:D:214:ARG:HG3	1.42	1.00
2:I:577:VAL:HG23	2:I:661:VAL:O	1.60	1.00
3:J:681:LYS:O	3:J:685:ILE:HG13	1.60	1.00
3:P:337:ARG:CD	3:P:341:ASN:ND2	2.23	1.00
1:B:68:TYR:HE1	1:B:79:LEU:HD21	1.22	1.00
3:D:378:LYS:HA	3:D:381:ILE:HD12	1.40	1.00
2:I:169:LYS:CD	3:J:1067:ARG:O	2.09	1.00
3:D:797:THR:HA	3:D:800:LEU:CD1	1.91	1.00
1:N:38:THR:C	1:N:39:LEU:HD23	1.82	1.00
2:O:292:ILE:HG21	2:O:322:LEU:HD11	1.41	1.00
5:F:402:LEU:HA	5:F:405:ILE:HD12	1.40	1.00
2:C:253:PHE:CD1	2:C:288:PRO:HD2	1.97	1.00
3:J:24:LEU:HD12	3:J:232:ASN:HB3	1.39	1.00
1:M:47:LEU:HD12	1:M:183:ILE:CD1	1.92	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:47:LEU:CD1	1:M:183:ILE:HD11	1.89	1.00
3:J:826:ILE:HG22	3:J:826:ILE:O	1.60	1.00
3:D:1263:LYS:HG2	3:D:1281:GLU:HA	1.43	1.00
5:F:491:GLU:OE2	5:F:495:ARG:NH2	1.94	1.00
3:J:1323:ALA:HB2	3:J:1332:LEU:HD21	1.43	1.00
3:D:1253:ILE:HD12	3:D:1253:ILE:N	1.75	0.99
3:P:720:ASN:O	3:P:724:MET:HG3	1.61	0.99
1:N:224:LEU:O	1:N:224:LEU:HD12	1.62	0.99
3:D:1138:LEU:HB3	3:D:1139:PRO:HD3	1.45	0.99
1:G:16:ILE:HG21	1:G:214:GLU:CD	1.83	0.99
1:A:192:VAL:HB	1:A:195:ARG:O	1.61	0.99
3:D:918:ILE:HG22	3:D:919:ALA:N	1.75	0.99
1:G:185:TYR:HB2	1:G:201:LEU:HD11	1.43	0.99
2:C:96:LEU:CB	2:C:127:ILE:HD11	1.93	0.99
3:J:502:PRO:HG2	3:J:601:ILE:HG21	1.41	0.99
3:J:869:CYS:HA	3:J:872:LEU:HD12	1.44	0.99
5:F:132:CYS:SG	5:F:257:LYS:NZ	2.36	0.99
3:J:1328:THR:O	3:J:1332:LEU:HG	1.63	0.99
3:J:749:LYS:HB3	3:J:750:PRO:HD2	1.38	0.99
3:J:294:ASN:ND2	5:L:101:TYR:HB2	1.76	0.99
2:C:1257:GLN:HG3	2:C:1296:ASP:OD1	1.61	0.99
3:D:1284:ARG:O	3:D:1287:ILE:HB	1.63	0.99
3:D:318:GLY:HA2	3:D:324:LEU:HD21	1.45	0.99
5:F:137:TYR:HE1	5:F:353:LEU:HD11	0.82	0.99
1:G:25:LYS:HZ1	1:G:202:VAL:CG1	1.74	0.99
3:J:930:LEU:HB2	3:J:1134:ILE:HD11	1.45	0.99
4:K:60:ASN:HB3	4:K:63:ILE:HD12	1.42	0.99
2:O:298:ALA:CB	2:O:334:GLU:HB3	1.93	0.99
2:C:700:VAL:HG13	2:C:1117:LEU:HD23	1.43	0.98
2:C:1327:LEU:HA	2:C:1337:ILE:HD13	1.45	0.98
3:D:351:GLY:O	3:D:468:VAL:HG23	1.60	0.98
1:N:44:ARG:HD3	1:N:185:TYR:HE1	1.24	0.98
3:D:1151:LYS:H	3:D:1151:LYS:HD2	1.24	0.98
3:D:182:ALA:CA	3:D:185:ILE:HD13	1.93	0.98
2:C:1289:GLU:OE1	3:D:472:LEU:HG	1.63	0.98
4:E:46:THR:CA	4:E:49:ILE:HD12	1.91	0.98
2:I:178:PRO:HG3	2:I:395:TYR:CZ	1.98	0.98
5:R:135:ALA:HB2	5:R:256:PHE:HB3	1.41	0.98
3:D:1075:ARG:HD3	3:D:1076:PRO:HD2	1.45	0.98
2:I:496:LYS:HD2	5:L:468:ARG:HH21	1.26	0.98
3:J:1101:LEU:HD22	3:J:1122:ALA:CB	1.93	0.98

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:681:MET:O	2:C:685:MET:HG2	1.62	0.98
1:G:228:LEU:HD11	1:H:224:LEU:HG	1.45	0.98
1:A:42:ALA:HA	1:B:38:THR:CG2	1.92	0.98
2:I:187:GLU:O	2:I:194:LEU:HD12	1.63	0.98
1:M:224:LEU:HG	1:M:225:ALA:N	1.76	0.98
5:R:574:GLU:O	5:R:578:LYS:HG3	1.63	0.98
3:D:349:TYR:HB3	3:D:470:VAL:HG21	1.46	0.98
3:J:1333:THR:O	3:J:1337:VAL:HG23	1.63	0.98
3:D:337:ARG:HD3	3:D:341:ASN:ND2	1.76	0.98
3:J:185:ILE:HG22	3:J:189:LEU:HD11	1.45	0.98
1:N:44:ARG:HA	1:N:47:LEU:HD12	1.42	0.98
3:D:108:ALA:HB3	3:D:279:LEU:HD21	1.46	0.98
3:D:1253:ILE:CD1	3:D:1253:ILE:H	1.74	0.98
1:M:47:LEU:HD13	1:M:183:ILE:CD1	1.94	0.98
2:C:237:LEU:HG	2:C:289:VAL:HG22	1.44	0.98
2:O:674:ASP:O	3:P:772:TYR:OH	1.79	0.98
3:J:46:TYR:O	3:J:49:PHE:CZ	2.17	0.97
3:D:1224:ARG:HD2	3:D:1228:ALA:HB1	1.42	0.97
2:I:1305:TYR:OH	5:L:532:LEU:HG	1.65	0.97
3:J:473:THR:HB	3:J:475:GLU:OE1	1.63	0.97
3:P:1146:GLU:HG2	3:P:1309:ILE:HD12	1.41	0.97
3:D:432:LEU:CD1	3:D:499:ILE:HD13	1.94	0.97
3:J:513:MET:CE	3:J:579:LEU:HD21	1.93	0.97
5:F:585:GLU:CG	7:2:46:DT:H73	1.88	0.97
3:D:111:THR:O	3:D:238:ILE:HD12	1.64	0.97
1:G:47:LEU:CD1	1:G:183:ILE:CD1	2.43	0.97
1:G:49:SER:CB	1:H:33:ARG:HH12	1.77	0.97
3:J:209:ASN:HD22	3:J:214:ARG:HD3	1.24	0.97
3:D:363:LEU:HD23	3:D:618:VAL:CG1	1.94	0.97
3:J:111:THR:HG23	3:J:300:GLN:HE22	1.24	0.97
3:P:1230:THR:HA	3:P:1233:ILE:HD12	1.43	0.97
2:C:149:LEU:HD11	2:C:451:ARG:HB3	1.47	0.97
3:D:1155:ILE:O	3:D:1156:LEU:HD23	1.63	0.97
5:F:585:GLU:HG2	7:2:46:DT:H73	0.99	0.97
1:G:225:ALA:HB2	1:H:228:LEU:HD13	1.47	0.97
2:I:1273:MET:SD	3:J:428:THR:HB	2.04	0.97
2:O:425:ILE:O	2:O:428:VAL:HB	1.65	0.97
2:O:1294:LYS:HE2	3:P:472:LEU:HD11	1.46	0.97
2:O:213:LEU:O	2:O:214:ASN:CB	2.11	0.97
4:E:49:ILE:HG22	4:E:50:ALA:N	1.78	0.97
5:F:585:GLU:CG	7:2:46:DT:H71	1.95	0.96

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1066:MET:SD	2:C:1076:ILE:HD11	2.05	0.96
2:I:1275:VAL:HG12	2:I:1279:GLU:OE2	1.65	0.96
3:J:905:ARG:HD2	4:K:16:ARG:HH11	1.29	0.96
3:P:1052:GLU:HG2	3:P:1053:LEU:H	1.30	0.96
3:P:428:THR:O	3:P:428:THR:HG22	1.62	0.96
1:A:228:LEU:CD1	1:B:224:LEU:HD11	1.94	0.96
2:C:257:ALA:HB2	2:C:277:LEU:HD11	1.47	0.96
5:L:401:PHE:O	5:L:405:ILE:HG13	1.64	0.96
3:P:1221:LEU:HG	3:P:1222:ARG:N	1.76	0.96
1:B:68:TYR:CD1	1:B:79:LEU:HD21	2.00	0.96
2:I:167:SER:HB3	3:J:1064:SER:HB3	1.47	0.96
2:I:722:GLY:HA2	2:I:737:ASN:OD1	1.65	0.96
2:O:577:VAL:HG23	2:O:661:VAL:O	1.64	0.96
3:D:1151:LYS:N	3:D:1151:LYS:HD2	1.80	0.96
2:C:96:LEU:HB2	2:C:127:ILE:HD11	1.46	0.96
2:I:700:VAL:HG13	2:I:1117:LEU:CD2	1.95	0.96
2:I:190:PRO:HB2	3:J:1069:ALA:HB2	1.44	0.96
5:L:412:LEU:HD12	5:L:415:ALA:HB3	1.46	0.96
1:M:45:ARG:HH12	2:O:1216:ARG:HA	1.27	0.96
3:D:601:ILE:O	3:D:605:LEU:HG	1.66	0.96
2:C:1253:LEU:HB2	5:F:523:ILE:HG21	1.48	0.96
3:J:111:THR:HG23	3:J:300:GLN:NE2	1.80	0.96
3:D:514:THR:HG21	3:D:596:LEU:HG	1.44	0.96
3:D:1224:ARG:HD2	3:D:1228:ALA:CB	1.96	0.96
3:D:1229:VAL:O	3:D:1233:ILE:HG13	1.66	0.96
1:M:224:LEU:CD2	1:N:228:LEU:HG	1.94	0.96
2:O:448:LEU:CD1	2:O:557:ARG:HD2	1.94	0.96
3:P:138:VAL:HG12	3:P:139:LEU:HD23	1.47	0.96
3:P:797:THR:HG23	3:P:924:GLY:HA3	1.44	0.96
2:C:149:LEU:HD21	2:C:451:ARG:HE	1.31	0.96
5:R:460:ILE:HA	5:R:463:LEU:HD12	1.46	0.96
2:O:445:ILE:HB	2:O:446:ASP:OD1	1.64	0.95
3:P:1045:THR:HG22	3:P:1067:ARG:HD3	1.45	0.95
3:D:530:PRO:HG2	3:D:531:LYS:HG3	1.48	0.95
4:E:46:THR:HA	4:E:49:ILE:CD1	1.93	0.95
1:H:61:ILE:HD12	1:H:64:VAL:HG11	1.48	0.95
3:J:1321:SER:O	3:J:1324:SER:OG	1.84	0.95
3:J:373:ALA:HA	3:J:376:LEU:CD1	1.96	0.95
2:O:161:LYS:HE2	2:O:161:LYS:CA	1.88	0.95
3:P:512:TYR:CE1	3:P:545:HIS:HE1	1.83	0.95
3:P:737:ILE:HG22	3:P:738:ARG:N	1.81	0.95

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:459:THR:O	5:L:463:LEU:HG	1.66	0.95
1:M:8:PHE:CZ	1:N:223:ILE:HG23	2.01	0.95
2:I:432:LEU:HG	2:I:433:ILE:N	1.81	0.95
3:J:797:THR:HG23	3:J:924:GLY:HA3	1.48	0.95
2:C:715:THR:HG22	2:C:786:GLY:H	1.31	0.95
2:I:675:ASP:HB2	2:I:1107:MET:HE2	1.49	0.95
5:L:451:ARG:HH11	5:L:453:PRO:HG3	1.26	0.95
2:O:201:ARG:HB2	2:O:369:MET:CE	1.96	0.95
2:C:1268:GLN:NE2	3:D:351:GLY:O	1.99	0.95
3:D:587:LEU:HD21	3:D:612:LEU:HD11	1.49	0.95
2:I:496:LYS:HB3	2:I:497:PRO:HD3	1.47	0.95
3:P:1138:LEU:HB3	3:P:1139:PRO:CD	1.96	0.95
1:N:13:LEU:HD12	1:N:28:LEU:CD2	1.97	0.95
3:D:836:ARG:HB2	3:D:873:GLU:OE2	1.66	0.94
3:D:909:ILE:HD13	3:D:910:ASN:O	1.67	0.94
1:G:91:ARG:HD2	1:G:124:VAL:HG23	1.45	0.94
3:P:139:LEU:HD21	3:P:185:ILE:HD11	1.47	0.94
3:P:363:LEU:CD2	3:P:487:THR:HG22	1.97	0.94
3:J:1159:ILE:HA	3:J:1206:ARG:HG2	1.49	0.94
3:P:644:MET:CE	3:P:764:ARG:HB2	1.97	0.94
3:D:1156:LEU:CD2	3:D:1209:VAL:HA	1.97	0.94
1:M:224:LEU:HD23	1:N:228:LEU:HG	1.47	0.94
3:J:385:LEU:HD22	3:J:391:ALA:HB2	1.47	0.94
3:D:842:ARG:NH1	3:D:1254:GLU:OE2	2.01	0.94
3:D:886:VAL:HG13	3:D:1258:ARG:HG3	1.49	0.94
5:F:92:GLY:O	5:F:93:ARG:HG3	1.68	0.94
2:O:206:ALA:O	2:O:209:ILE:HG22	1.68	0.94
2:O:26:TYR:HA	2:O:711:ASP:OD2	1.67	0.94
1:B:61:ILE:HB	1:B:64:VAL:HB	1.48	0.94
2:C:75:LEU:HD21	2:C:94:ALA:HB3	1.49	0.94
3:D:282:LEU:HD21	5:F:410:ILE:HG12	1.48	0.94
3:J:501:VAL:HG13	3:J:502:PRO:HD2	0.96	0.94
1:M:29:GLU:HG3	1:M:30:PRO:HD3	1.48	0.94
3:D:501:VAL:HG13	3:D:502:PRO:HD2	1.47	0.94
3:P:620:PHE:O	3:P:624:ILE:HG13	1.65	0.94
2:C:1283:ALA:HB1	3:D:479:GLU:OE2	1.67	0.94
2:C:255:ILE:HD13	2:C:285:ILE:HD13	1.47	0.94
1:G:45:ARG:HH12	2:I:1216:ARG:HA	1.29	0.94
3:J:332:LYS:NZ	3:J:1329:THR:OG1	2.01	0.94
3:D:797:THR:CA	3:D:800:LEU:HD12	1.97	0.94
2:I:488:MET:HB3	2:I:489:PRO:HD2	1.49	0.94

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:385:LEU:CD1	3:J:397:ALA:HB1	1.97	0.94
3:D:478:LEU:HB3	4:E:20:VAL:HG13	1.49	0.93
1:M:162:GLU:OE1	1:M:166:ARG:NH1	2.01	0.93
3:D:105:ILE:HD12	3:D:242:LEU:HD23	1.48	0.93
3:J:185:ILE:O	3:J:189:LEU:HD12	1.67	0.93
3:J:783:LEU:O	3:J:786:THR:HG22	1.68	0.93
2:O:706:ARG:O	2:O:710:VAL:HG23	1.68	0.93
3:P:587:LEU:HD21	3:P:612:LEU:HD21	1.50	0.93
3:P:688:ALA:O	3:P:692:ARG:HD2	1.66	0.93
3:D:918:ILE:CG2	3:D:919:ALA:N	2.28	0.93
5:F:450:ILE:CD1	5:F:450:ILE:H	1.78	0.93
5:F:585:GLU:OE2	5:F:588:ARG:HG2	1.67	0.93
2:O:802:VAL:HG22	2:O:1096:ILE:HB	1.50	0.93
1:N:42:ALA:O	1:N:46:ILE:HD12	1.69	0.93
3:P:1310:THR:O	3:P:1314:LEU:HG	1.68	0.93
2:C:1073:LYS:NZ	8:3:15:G:O5'	2.02	0.93
1:A:224:LEU:O	1:A:224:LEU:HD12	1.67	0.93
1:A:228:LEU:CD2	1:B:224:LEU:HD21	1.95	0.93
3:J:266:ASN:O	3:J:270:ARG:HG3	1.68	0.93
3:P:622:ASP:O	3:P:626:TYR:CD2	2.21	0.93
2:C:870:ILE:HG13	2:C:944:ARG:HG2	1.50	0.93
3:J:421:VAL:HG12	3:J:422:LEU:H	1.32	0.93
2:O:448:LEU:HD13	2:O:608:ALA:HB2	1.50	0.93
3:P:497:GLU:HB3	3:P:498:PRO:HD2	1.46	0.93
2:C:838:CYS:SG	2:C:886:LYS:HE3	2.09	0.93
2:I:1294:LYS:HD3	3:J:347:VAL:HG12	1.51	0.93
2:O:217:THR:HG21	2:O:313:ALA:HB1	1.50	0.93
2:I:237:LEU:HD11	2:I:289:VAL:HG22	1.51	0.93
3:P:1138:LEU:CB	3:P:1139:PRO:HD3	1.98	0.93
3:D:126:LEU:HD13	3:D:223:LEU:HD11	1.49	0.92
2:O:890:LYS:HA	2:O:914:LYS:HE3	1.50	0.92
6:1:58:DG:H2"	6:1:59:DG:OP2	1.68	0.92
3:D:575:GLY:CA	3:D:578:ILE:HD12	1.98	0.92
2:I:883:LEU:HD21	2:I:920:VAL:CG2	1.99	0.92
3:J:601:ILE:O	3:J:605:LEU:HG	1.68	0.92
1:A:184:ALA:HB2	2:C:1091:GLY:HA3	1.51	0.92
3:J:182:ALA:HA	3:J:185:ILE:CD1	1.98	0.92
1:G:47:LEU:HD12	1:G:183:ILE:HD13	1.52	0.92
3:J:1101:LEU:HD22	3:J:1122:ALA:HB3	1.49	0.92
1:M:154:PRO:CG	1:M:157:THR:OG1	2.17	0.92
1:N:102:LEU:HD11	1:N:114:ASP:HB3	1.51	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:371:ARG:C	5:R:99:ARG:HH22	1.73	0.92
3:P:1238:GLN:O	3:P:1242:ARG:HG3	1.70	0.92
5:R:235:ILE:HD11	5:R:249:ILE:HD11	0.94	0.92
3:D:425:ARG:NH1	8:3:16:U:O2'	2.03	0.92
2:C:1288:GLN:HB3	2:C:1315:MET:HE3	1.51	0.92
3:J:814:CYS:SG	10:J:1502:ZN:ZN	1.56	0.92
1:M:69:SER:O	1:M:78:ILE:HG13	1.70	0.92
5:F:458:GLU:HA	5:F:461:ASN:HD21	1.24	0.92
2:C:104:ILE:O	2:C:115:LYS:HB3	1.69	0.92
5:L:548:LEU:HD23	5:L:551:LEU:CD1	1.98	0.92
2:C:75:LEU:HD21	2:C:94:ALA:CB	1.99	0.92
2:I:835:GLU:O	2:I:836:LEU:HD23	1.70	0.92
3:J:381:ILE:HD11	3:J:412:LEU:HA	1.51	0.92
3:J:909:ILE:HG12	3:J:910:ASN:N	1.85	0.92
2:O:698:PRO:HA	2:O:1231:TYR:CE1	2.04	0.92
2:O:83:GLN:O	2:O:87:ILE:HG13	1.69	0.92
3:D:1145:PHE:CE1	3:D:1256:ILE:HD12	2.05	0.92
1:A:225:ALA:HB2	1:B:228:LEU:HD13	1.49	0.92
2:I:1333:LEU:HD23	3:J:327:LEU:HD13	1.52	0.92
2:C:431:LYS:O	2:C:435:ILE:HG13	1.69	0.91
5:F:450:ILE:HD13	5:F:450:ILE:N	1.85	0.91
3:P:422:LEU:O	3:P:468:VAL:HG13	1.69	0.91
5:R:399:LEU:O	5:R:400:GLN:HB2	1.69	0.91
2:C:295:LYS:O	2:C:317:LEU:HG	1.69	0.91
3:D:139:LEU:O	3:D:141:PHE:CD2	2.24	0.91
2:C:1077:SER:HA	3:D:356:THR:CG2	2.00	0.91
1:M:38:THR:HG23	1:N:42:ALA:CA	2.00	0.91
5:R:110:LEU:HD12	5:R:110:LEU:N	1.83	0.91
2:C:1107:MET:HE2	3:D:740:LEU:HD21	1.49	0.91
1:M:48:LEU:HD23	1:M:180:VAL:HB	1.49	0.91
2:O:870:ILE:HG21	2:O:944:ARG:HE	1.35	0.91
3:P:739:GLN:CG	3:P:744:ARG:HG3	2.00	0.91
2:C:1284:ALA:O	2:C:1287:LEU:HD23	1.70	0.91
3:D:608:CYS:SG	3:D:617:THR:HG22	2.10	0.91
1:N:38:THR:HB	1:N:39:LEU:HD23	1.52	0.91
2:I:498:ILE:O	2:I:502:VAL:HG23	1.70	0.91
2:I:901:LEU:O	2:I:905:ILE:HG13	1.69	0.91
3:J:1258:ARG:HA	3:J:1261:LEU:HD12	1.53	0.91
2:O:889:PRO:O	2:O:914:LYS:NZ	2.04	0.91
3:P:1321:SER:O	3:P:1324:SER:OG	1.89	0.91
3:P:797:THR:CG2	3:P:924:GLY:HA3	2.00	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:6:VAL:O	4:E:10:VAL:HG23	1.69	0.91
5:F:166:VAL:HG12	5:F:167:ASP:H	1.33	0.91
5:F:551:LEU:HD22	5:F:597:LYS:CD	2.00	0.91
3:J:1221:LEU:CD1	3:J:1229:VAL:HG11	2.01	0.91
3:J:825:VAL:HG22	3:J:838:ARG:NH1	1.86	0.91
5:L:295:CYS:O	5:L:296:LYS:HB2	1.68	0.91
3:P:1353:VAL:HG21	3:P:1355:ARG:HD2	1.51	0.91
2:C:1086:PRO:O	2:C:1094:VAL:CG2	2.18	0.91
3:J:820:ILE:HG12	3:J:1227:HIS:HB3	1.51	0.91
3:J:899:TYR:CE1	3:J:915:ILE:HG21	2.05	0.91
3:P:269:TYR:O	3:P:273:ILE:HG13	1.71	0.91
3:P:503:SER:O	3:P:506:VAL:HG23	1.70	0.91
1:B:65:LEU:O	1:B:169:GLY:HA2	1.69	0.91
2:O:1120:ALA:HB1	2:O:1198:LEU:HG	1.50	0.91
2:O:298:ALA:HB3	2:O:334:GLU:CB	1.99	0.91
3:D:182:ALA:C	3:D:185:ILE:HD13	1.92	0.90
2:I:184:LEU:HD21	2:I:389:PHE:CZ	2.05	0.90
3:J:501:VAL:CG1	3:J:502:PRO:CD	2.47	0.90
1:M:43:LEU:HD13	1:M:203:ILE:HD11	1.53	0.90
1:G:25:LYS:HZ2	1:G:202:VAL:CG1	1.81	0.90
5:R:457:ILE:HA	5:R:460:ILE:HD12	1.53	0.90
3:D:1326:GLN:OE1	7:2:11:DA:H4'	1.70	0.90
5:F:583:THR:HG21	5:F:587:ILE:CD1	2.00	0.90
3:D:185:ILE:HG22	3:D:189:LEU:HD11	1.51	0.90
3:J:1344:LEU:HD23	3:J:1349:GLU:HB3	1.53	0.90
3:J:905:ARG:HD2	4:K:16:ARG:NH1	1.86	0.90
3:P:385:LEU:HD21	3:P:411:ILE:HD13	1.54	0.90
1:G:49:SER:HB2	1:H:33:ARG:HH12	1.33	0.90
3:J:1266:ILE:HG21	3:J:1274:PHE:HB3	1.54	0.90
2:O:550:VAL:HG22	3:P:780:ARG:HD3	1.53	0.90
3:D:369:PRO:HG2	3:D:372:MET:HE1	1.53	0.90
2:I:1151:LEU:HD22	2:I:1198:LEU:HD12	1.53	0.90
1:A:155:ALA:HA	1:A:172:LEU:HD21	1.52	0.90
5:F:520:GLY:CA	5:F:523:ILE:HD12	2.02	0.90
1:M:40:GLY:HA2	1:M:43:LEU:CD1	2.02	0.90
3:P:644:MET:HE2	3:P:764:ARG:HB2	1.50	0.90
5:L:429:THR:HG1	6:4:39:DA:H8	0.94	0.90
2:C:1288:GLN:O	2:C:1292:THR:HG22	1.71	0.90
3:D:116:PHE:O	3:D:124:ILE:HD11	1.72	0.90
3:J:886:VAL:CG1	3:J:1261:LEU:CD1	2.48	0.90
3:J:1287:ILE:HG22	3:J:1288:ALA:N	1.83	0.90

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:44:ARG:HD3	1:N:185:TYR:CE1	2.07	0.90
2:O:371:ARG:CA	5:R:99:ARG:NH2	2.35	0.90
3:D:1145:PHE:HE1	3:D:1256:ILE:CD1	1.83	0.90
5:F:585:GLU:HG2	7:2:46:DT:H71	1.52	0.90
1:G:16:ILE:HG21	1:G:214:GLU:CG	2.02	0.90
1:G:25:LYS:HZ1	1:G:202:VAL:HG11	0.89	0.90
2:C:551:HIS:HD1	2:C:553:THR:HG1	1.13	0.90
5:R:128:ASN:HD22	5:R:257:LYS:HE2	1.36	0.90
4:E:2:ALA:N	4:E:5:THR:O	2.06	0.89
2:O:949:GLU:O	2:O:953:LEU:HG	1.73	0.89
2:O:1340:GLU:OE1	3:P:1341:ARG:NH2	2.04	0.89
3:P:543:SER:O	3:P:574:VAL:HG21	1.72	0.89
2:O:1112:ILE:HD13	3:P:639:VAL:O	1.72	0.89
1:B:88:LEU:HD11	1:B:128:HIS:CG	2.08	0.89
2:O:353:VAL:O	2:O:355:PRO:HD3	1.72	0.89
3:D:575:GLY:HA2	3:D:578:ILE:CD1	1.99	0.89
3:D:839:VAL:HG13	3:D:864:LEU:CD1	2.01	0.89
5:F:594:ALA:O	5:F:598:LEU:HG	1.72	0.89
2:O:297:VAL:HG13	2:O:317:LEU:CD2	2.00	0.89
5:R:385:ARG:O	5:R:388:ILE:HG22	1.72	0.89
1:B:68:TYR:HE1	1:B:79:LEU:CD2	1.85	0.89
2:C:146:VAL:HG12	2:C:529:ARG:O	1.73	0.89
3:J:1226:VAL:O	3:J:1230:THR:OG1	1.89	0.89
3:P:337:ARG:CD	3:P:341:ASN:HD21	1.83	0.89
1:B:190:ALA:HB2	1:B:200:LYS:HG3	1.51	0.89
3:D:1216:ALA:O	3:D:1220:ILE:HG13	1.72	0.89
3:J:139:LEU:CD2	3:J:185:ILE:CD1	2.51	0.89
2:I:550:VAL:HG22	3:J:780:ARG:HD2	1.54	0.89
2:O:1113:LEU:HD23	3:P:641:ILE:HD11	1.55	0.89
5:R:517:SER:HB2	5:R:521:ASP:HB2	1.55	0.89
2:C:1324:ASN:HA	2:C:1327:LEU:HD12	1.51	0.89
3:J:1173:ARG:HB2	3:J:1190:ILE:HD12	1.54	0.89
3:J:720:ASN:O	3:J:724:MET:HG3	1.72	0.89
2:O:402:ARG:NH1	2:O:424:ASP:OD2	2.05	0.89
3:P:262:THR:O	5:R:507:MET:N	2.06	0.89
3:D:186:GLN:NE2	3:D:235:GLU:O	2.04	0.89
5:F:585:GLU:OE2	5:F:588:ARG:CG	2.21	0.89
3:J:1230:THR:HG23	3:J:1257:VAL:HG11	1.53	0.89
2:O:524:ILE:CD1	2:O:712:SER:HB3	2.02	0.89
3:P:218:THR:HG22	3:P:222:LYS:HE3	1.54	0.89
2:C:1121:ALA:HB2	2:C:1182:ILE:HD11	1.55	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1321:SER:O	3:D:1324:SER:OG	1.89	0.89
3:D:342:LEU:HB3	3:D:1352:ILE:HG12	1.52	0.89
3:D:589:TYR:HE2	3:D:593:ASN:ND2	1.69	0.89
1:G:25:LYS:HZ2	1:G:202:VAL:HG11	1.38	0.89
3:J:797:THR:CG2	3:J:924:GLY:HA3	2.02	0.89
2:O:1288:GLN:O	2:O:1292:THR:HG22	1.72	0.89
1:A:42:ALA:CA	1:B:38:THR:HG23	2.01	0.89
1:N:140:ILE:HG13	1:N:142:MET:CE	2.01	0.89
2:O:1284:ALA:HB1	3:P:1356:LEU:CD2	2.01	0.89
5:R:135:ALA:HB2	5:R:256:PHE:CB	2.03	0.89
2:C:206:ALA:O	2:C:209:ILE:HG23	1.73	0.88
3:D:432:LEU:HD11	3:D:499:ILE:HD13	1.53	0.88
3:D:694:SER:OG	3:D:738:ARG:HD3	1.72	0.88
5:L:583:THR:HG22	5:L:587:ILE:HD11	1.53	0.88
3:D:252:LEU:HD13	3:D:262:THR:HB	1.54	0.88
5:F:84:LEU:HG	5:F:107:THR:CG2	2.03	0.88
5:L:84:LEU:HD11	5:L:107:THR:CG2	2.03	0.88
1:A:38:THR:HG22	1:B:42:ALA:HA	1.52	0.88
3:D:97:VAL:HG12	3:D:101:ARG:HG3	1.54	0.88
1:G:47:LEU:CD1	1:G:183:ILE:HD13	2.02	0.88
3:J:923:ILE:HD11	3:J:1252:HIS:HB2	1.54	0.88
3:J:130:MET:SD	3:J:135:ILE:HG12	2.14	0.88
3:P:139:LEU:HD22	3:P:185:ILE:CD1	1.97	0.88
3:P:553:THR:HG23	3:P:567:THR:OG1	1.74	0.88
2:I:335:THR:HG22	2:I:336:LEU:H	1.36	0.88
5:L:386:LEU:HD22	6:4:41:DT:C2	2.07	0.88
3:P:609:TYR:HA	3:P:617:THR:HG21	1.53	0.88
3:P:703:THR:O	3:P:718:SER:HB3	1.73	0.88
3:D:501:VAL:HG22	3:D:605:LEU:HD12	1.55	0.88
2:I:686:GLN:NE2	2:I:1069:ARG:HG2	1.88	0.88
3:J:368:LEU:O	3:J:441:LEU:HD23	1.74	0.88
1:M:68:TYR:HE2	2:O:927:THR:HB	1.35	0.88
1:M:150:ARG:N	1:M:150:ARG:HD3	1.87	0.88
2:O:700:VAL:HG12	2:O:1117:LEU:HD23	1.55	0.88
3:D:502:PRO:HB3	3:D:506:VAL:HG11	1.55	0.88
2:I:797:GLY:HA3	2:I:1233:LEU:HD23	1.55	0.88
2:I:870:ILE:HG13	2:I:944:ARG:HD3	1.55	0.88
2:O:1174:GLU:O	2:O:1177:ARG:HB3	1.72	0.88
1:A:102:LEU:HD21	1:A:110:VAL:HG11	1.56	0.88
3:D:115:TRP:CH2	3:D:1329:THR:HA	2.08	0.88
3:D:797:THR:CG2	3:D:924:GLY:HA3	2.04	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1291:LEU:HD13	3:J:1354:GLY:HA2	1.53	0.88
2:C:1275:VAL:O	2:C:1279:GLU:HG3	1.73	0.88
2:C:525:THR:HG21	2:C:687:ARG:HD3	1.55	0.88
3:D:130:MET:HG2	3:D:135:ILE:CG1	2.04	0.88
5:L:132:CYS:SG	5:L:257:LYS:CE	2.61	0.88
2:O:184:LEU:HG	2:O:389:PHE:CZ	2.08	0.88
3:P:115:TRP:CZ2	3:P:1329:THR:HG22	2.09	0.88
6:7:44:DG:OP1	6:7:44:DG:H4'	1.73	0.88
2:I:1305:TYR:HA	2:I:1308:ILE:HD12	1.55	0.88
2:I:137:VAL:O	2:I:138:ILE:HD13	1.74	0.88
1:N:47:LEU:HD13	1:N:183:ILE:HD13	1.54	0.88
5:R:511:ILE:HD13	5:R:519:LEU:HA	1.56	0.88
3:D:1356:LEU:HD13	3:D:1365:TYR:CD1	2.09	0.87
3:D:182:ALA:HA	3:D:185:ILE:HD13	1.53	0.87
3:J:1226:VAL:O	3:J:1229:VAL:HG13	1.74	0.87
2:C:797:GLY:HA3	2:C:1233:LEU:HD21	1.54	0.87
2:I:1086:PRO:O	2:I:1094:VAL:HG23	1.73	0.87
5:L:402:LEU:HA	5:L:405:ILE:HD12	1.56	0.87
5:L:587:ILE:CD1	5:L:587:ILE:N	2.29	0.87
1:B:69:SER:O	1:B:78:ILE:HG13	1.75	0.87
1:N:65:LEU:O	1:N:169:GLY:HA2	1.73	0.87
3:P:829:GLY:HA2	3:P:994:SER:O	1.74	0.87
6:7:51:DC:H2"	6:7:52:DT:H5'	1.54	0.87
3:D:619:ILE:HG22	3:D:620:PHE:N	1.89	0.87
2:O:1286:THR:O	2:O:1290:MET:HG2	1.75	0.87
3:P:923:ILE:O	3:P:926:PRO:HD2	1.75	0.87
3:D:1263:LYS:NZ	3:D:1315:ALA:O	2.08	0.87
3:D:474:LEU:CD1	4:E:28:ARG:HG2	2.05	0.87
1:G:224:LEU:CG	1:H:228:LEU:HD11	2.05	0.87
2:I:1054:LEU:HD22	2:I:1055:ALA:N	1.88	0.87
2:I:168:GLY:O	3:J:1065:ALA:CA	2.23	0.87
3:P:259:ARG:HH22	5:R:502:LYS:HG2	1.39	0.87
3:P:384:LYS:NZ	3:P:415:VAL:HG22	1.89	0.87
1:M:41:ASN:O	1:M:45:ARG:HG3	1.74	0.87
1:M:51:MET:HE3	1:M:211:ILE:HG13	1.55	0.87
1:N:88:LEU:CD1	1:N:128:HIS:NE2	2.38	0.87
1:M:45:ARG:NH1	2:O:1216:ARG:HA	1.89	0.87
2:C:1338:GLU:O	3:D:20:ILE:HG23	1.74	0.87
3:D:975:ILE:HD13	3:D:980:THR:CG2	2.03	0.87
1:H:28:LEU:HD12	1:H:201:LEU:HB3	1.56	0.87
3:J:1252:HIS:O	3:J:1255:VAL:HB	1.75	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1101:LEU:HD23	3:P:725:MET:HG2	1.56	0.87
2:O:205:PRO:O	2:O:208:ILE:HG22	1.74	0.87
2:O:448:LEU:HD11	2:O:557:ARG:CD	2.03	0.87
2:C:257:ALA:HB3	2:C:262:TYR:HE2	1.39	0.87
5:L:455:HIS:CD2	5:L:455:HIS:N	2.39	0.87
2:O:839:VAL:O	2:O:886:LYS:NZ	2.05	0.87
3:P:363:LEU:HD23	3:P:487:THR:HG22	1.54	0.87
3:P:622:ASP:HB3	3:P:626:TYR:HE2	1.40	0.87
2:C:1117:LEU:HD11	2:C:1182:ILE:HD13	1.57	0.87
3:D:503:SER:O	3:D:506:VAL:HG23	1.75	0.87
1:M:102:LEU:CD2	1:M:130:ILE:HD13	2.04	0.87
2:O:227:LYS:HD3	2:O:334:GLU:CD	1.96	0.87
3:P:747:MET:HE2	3:P:774:ILE:CG2	2.04	0.87
1:A:228:LEU:HD11	1:B:224:LEU:CD1	2.03	0.86
3:D:497:GLU:HB3	3:D:498:PRO:HD2	1.57	0.86
2:I:257:ALA:HB1	2:I:282:VAL:HG11	1.55	0.86
3:J:115:TRP:CH2	3:J:1329:THR:CA	2.55	0.86
2:C:1253:LEU:HB2	5:F:523:ILE:CG2	2.05	0.86
3:D:1229:VAL:HG22	3:D:1233:ILE:HD11	1.56	0.86
3:D:880:VAL:CG1	3:D:881:LYS:N	2.38	0.86
1:N:39:LEU:N	1:N:39:LEU:CD2	2.27	0.86
1:N:84:ASN:O	1:N:88:LEU:HD13	1.75	0.86
8:9:14:A:H5'	8:9:15:G:OP2	1.75	0.86
2:C:1330:ILE:HD13	2:C:1337:ILE:HD12	1.57	0.86
1:G:9:LEU:HD21	1:G:198:LEU:CD2	2.03	0.86
3:J:923:ILE:HD11	3:J:1252:HIS:CB	2.04	0.86
1:M:45:ARG:HD3	1:N:38:THR:OG1	1.74	0.86
1:B:68:TYR:CE1	1:B:79:LEU:CD2	2.55	0.86
3:D:452:LEU:HD11	3:D:625:MET:CE	2.06	0.86
3:D:452:LEU:HG	3:D:625:MET:SD	2.15	0.86
3:D:1309:ILE:HG22	3:D:1310:THR:N	1.90	0.86
3:D:478:LEU:CB	4:E:20:VAL:HG13	2.04	0.86
2:I:1269:ARG:HG3	3:J:345:LYS:C	1.95	0.86
1:N:83:LEU:HD13	1:N:86:LYS:HD2	1.58	0.86
7:5:25:DA:H2"	7:5:26:DT:OP2	1.75	0.86
3:D:616:PRO:O	3:D:619:ILE:HB	1.74	0.86
2:C:1223:ARG:NH2	3:D:719:PHE:O	2.09	0.86
1:B:124:VAL:HG21	1:B:210:THR:HG23	1.57	0.86
3:D:797:THR:HG23	3:D:924:GLY:HA3	1.58	0.86
2:I:210:LEU:CB	2:I:220:ILE:HD11	2.06	0.86
3:P:425:ARG:HD2	3:P:457:TYR:HB3	1.57	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:673:VAL:HG11	3:P:678:ARG:HB2	1.58	0.86
2:C:303:ASP:HB2	2:C:310:ILE:HD11	1.55	0.86
3:J:353:SER:CB	3:J:372:MET:HE1	2.02	0.86
3:J:886:VAL:HG11	3:J:1261:LEU:HD11	1.56	0.86
5:R:386:LEU:HD13	6:7:41:DT:O4'	1.74	0.86
3:P:372:MET:O	3:P:376:LEU:HG	1.76	0.86
3:D:1138:LEU:HD23	3:D:1139:PRO:HG3	1.58	0.85
1:H:47:LEU:CD1	1:H:183:ILE:HD12	2.06	0.85
3:J:1250:ASP:HA	3:J:1253:ILE:HD12	1.56	0.85
3:D:452:LEU:HD11	3:D:625:MET:HE2	1.56	0.85
1:G:38:THR:CG2	1:H:42:ALA:HA	2.06	0.85
3:J:825:VAL:HG22	3:J:838:ARG:HH11	1.41	0.85
2:O:1113:LEU:CD2	3:P:641:ILE:HD11	2.06	0.85
5:R:392:LYS:HA	5:R:395:THR:HG23	1.56	0.85
2:C:708:VAL:CG1	2:C:794:LEU:HD22	2.06	0.85
2:I:592:ARG:NH2	2:I:600:THR:O	2.08	0.85
3:J:115:TRP:O	3:J:119:SER:OG	1.93	0.85
3:J:1284:ARG:HA	3:J:1287:ILE:HD12	1.56	0.85
3:J:749:LYS:HB3	3:J:750:PRO:HD3	1.57	0.85
3:D:105:ILE:HG13	3:D:244:VAL:HG21	1.57	0.85
3:D:24:LEU:HD12	3:D:232:ASN:HB3	1.59	0.85
1:G:38:THR:HG23	1:H:42:ALA:HA	1.58	0.85
3:P:219:LYS:HA	3:P:222:LYS:HD2	1.58	0.85
3:P:425:ARG:HB2	3:P:466:MET:HE3	1.57	0.85
2:C:257:ALA:HB3	2:C:262:TYR:CE2	2.11	0.85
3:D:1261:LEU:HD13	3:D:1304:ARG:HD2	1.59	0.85
2:O:1085:MET:HA	2:O:1085:MET:CE	2.07	0.85
2:O:171:LEU:HD22	2:O:188:PHE:O	1.76	0.85
3:D:1137:GLY:O	3:D:1141:VAL:HG23	1.74	0.85
3:D:543:SER:O	3:D:574:VAL:HG21	1.75	0.85
2:I:533:LEU:CD2	2:I:538:LEU:O	2.24	0.85
1:M:56:VAL:HG13	1:M:144:ILE:CG2	2.07	0.85
2:O:634:VAL:HG12	2:O:635:THR:H	1.42	0.85
2:O:715:THR:HG22	2:O:786:GLY:H	1.39	0.85
2:C:1274:GLU:N	2:C:1274:GLU:OE1	2.08	0.85
3:D:589:TYR:CE2	3:D:593:ASN:ND2	2.44	0.85
3:P:1353:VAL:CG2	3:P:1355:ARG:HD2	2.06	0.85
6:1:50:DT:H6	6:1:50:DT:H3'	1.42	0.85
5:F:458:GLU:CA	5:F:461:ASN:ND2	2.40	0.85
3:J:190:LYS:O	3:J:190:LYS:HG3	1.77	0.85
3:P:435:GLN:HB2	3:P:457:TYR:OH	1.77	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:395:LYS:CA	3:D:398:LYS:HE3	2.05	0.85
3:D:453:VAL:HG13	3:D:500:ILE:HD13	1.59	0.85
3:P:823:THR:O	3:P:838:ARG:NH1	2.10	0.85
2:C:204:LEU:HB3	2:C:205:PRO:HD2	1.58	0.84
3:D:24:LEU:CD1	3:D:232:ASN:HB3	2.06	0.84
2:I:106:GLU:CG	2:I:115:LYS:HB2	2.05	0.84
3:J:807:LEU:CD2	3:J:1259:GLN:HG2	2.06	0.84
2:O:237:LEU:CD1	2:O:289:VAL:HG22	2.07	0.84
3:P:303:VAL:O	3:P:307:LEU:HG	1.75	0.84
1:A:40:GLY:HA2	1:A:43:LEU:HD12	1.59	0.84
3:D:1328:THR:HG22	3:D:1332:LEU:HD11	1.59	0.84
2:I:157:PHE:O	2:I:442:VAL:CG1	2.25	0.84
2:I:790:ASP:O	2:I:792:GLY:N	2.10	0.84
2:C:1273:MET:HA	2:C:1276:TRP:CE3	2.11	0.84
3:D:355:ILE:HD12	3:D:461:PHE:CE1	2.11	0.84
3:D:895:CYS:SG	3:D:898:CYS:N	2.50	0.84
2:I:1337:ILE:HD12	3:J:22:ILE:CG1	2.06	0.84
2:I:171:LEU:HD22	2:I:188:PHE:O	1.77	0.84
3:J:278:ARG:O	3:J:282:LEU:HG	1.77	0.84
1:M:150:ARG:HH11	1:M:150:ARG:H	1.24	0.84
2:I:542:ARG:NH2	6:4:49:DG:C8	2.45	0.84
2:C:838:CYS:SG	2:C:886:LYS:CE	2.65	0.84
3:D:820:ILE:HD11	3:D:884:SER:HB2	1.56	0.84
2:I:4:SER:O	2:I:8:LYS:HG3	1.77	0.84
3:J:1190:ILE:HG22	3:J:1191:PRO:O	1.76	0.84
5:L:476:ARG:HG3	5:L:477:GLU:N	1.92	0.84
3:D:343:LEU:HD23	3:D:1351:VAL:HG11	1.58	0.84
1:G:26:VAL:HG11	1:G:217:ILE:HD12	1.59	0.84
2:C:1330:ILE:CD1	2:C:1337:ILE:HD12	2.07	0.84
5:F:277:MET:SD	5:F:362:ASN:ND2	2.50	0.84
2:I:157:PHE:O	2:I:442:VAL:HG12	1.78	0.84
3:J:139:LEU:HD23	3:J:185:ILE:HD11	1.60	0.84
3:P:508:LEU:CD1	3:P:508:LEU:C	2.25	0.84
3:P:575:GLY:CA	3:P:578:ILE:HD12	2.05	0.84
3:D:1146:GLU:OE1	3:D:1309:ILE:HB	1.78	0.84
3:D:181:GLY:O	3:D:185:ILE:HD12	1.77	0.84
2:C:1270:PHE:HB2	3:D:347:VAL:CG2	2.07	0.84
3:D:746:LEU:CD2	3:D:758:PRO:HB3	2.07	0.84
3:J:481:ARG:O	3:J:485:MET:HB2	1.75	0.84
5:L:105:MET:SD	5:L:385:ARG:HG2	2.16	0.84
5:R:573:LEU:N	7:8:45:DG:OP2	2.11	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:9:13:GTP:H8	8:9:13:GTP:O3A	1.60	0.84
1:A:150:ARG:NH2	1:B:32:GLU:OE1	2.11	0.84
3:D:1350:ASN:HA	3:D:1353:VAL:HG22	1.58	0.84
5:F:333:VAL:O	5:F:337:VAL:HG23	1.78	0.84
3:D:79:LYS:NZ	5:F:569:THR:HG22	1.93	0.84
3:J:749:LYS:CB	3:J:750:PRO:CD	2.52	0.84
2:O:99:LYS:HG3	2:O:121:GLU:HG3	1.60	0.84
2:C:149:LEU:CD1	2:C:451:ARG:HB3	2.07	0.84
3:D:131:PRO:O	3:D:135:ILE:HG13	1.77	0.84
1:M:180:VAL:HA	1:M:207:THR:HG22	0.87	0.84
1:M:42:ALA:HA	1:N:38:THR:HG21	1.57	0.84
2:O:52:ALA:HB3	2:O:464:PHE:HE2	1.43	0.84
2:O:812:PHE:O	2:O:1099:ASN:ND2	2.10	0.84
3:P:797:THR:HG23	3:P:924:GLY:HA2	1.60	0.84
3:D:737:ILE:HG22	3:D:738:ARG:N	1.92	0.83
5:F:386:LEU:HD13	6:1:41:DT:O4'	1.77	0.83
2:I:811:ASN:HB3	2:I:817:LEU:HD12	1.60	0.83
3:P:115:TRP:CH2	3:P:1329:THR:HA	2.13	0.83
1:A:232:VAL:HG22	1:B:221:ALA:HB1	1.59	0.83
1:H:28:LEU:HD12	1:H:201:LEU:CB	2.07	0.83
5:L:123:ILE:O	5:L:127:ILE:HG13	1.77	0.83
1:M:83:LEU:HD13	1:M:86:LYS:HD2	1.60	0.83
2:O:1184:THR:OG1	2:O:1190:ALA:N	2.11	0.83
2:O:247:ARG:HA	2:O:274:ILE:HD11	1.60	0.83
3:P:749:LYS:HB3	3:P:750:PRO:HD2	1.58	0.83
1:B:217:ILE:CD1	1:B:217:ILE:H	1.89	0.83
2:C:669:PRO:HB3	2:C:1184:THR:HG22	1.58	0.83
3:D:483:LEU:O	3:D:489:ASN:ND2	2.09	0.83
3:D:839:VAL:CG1	3:D:864:LEU:HD13	2.08	0.83
5:F:329:LYS:O	5:F:330:LEU:HB2	1.76	0.83
2:I:169:LYS:NZ	2:I:192:ASP:OD1	2.10	0.83
2:O:1100:PRO:HB3	3:P:639:VAL:CG2	2.08	0.83
3:P:883:ARG:CZ	3:P:898:CYS:SG	2.61	0.83
5:R:392:LYS:HD3	6:7:43:DT:O3'	1.79	0.83
3:D:1229:VAL:CG2	3:D:1233:ILE:HD11	2.08	0.83
2:I:623:LEU:HD23	2:I:628:HIS:O	1.79	0.83
3:P:1233:ILE:O	3:P:1237:VAL:HG23	1.77	0.83
3:P:1348:LYS:HA	3:P:1351:VAL:CG2	2.08	0.83
3:P:512:TYR:CE1	3:P:545:HIS:CE1	2.66	0.83
3:P:622:ASP:O	3:P:626:TYR:HD2	1.59	0.83
3:D:245:LEU:O	3:D:250:ARG:NE	2.12	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:885:VAL:HG12	3:D:886:VAL:N	1.91	0.83
3:J:614:LEU:HD23	4:K:7:GLN:CD	1.98	0.83
3:P:268:LEU:O	3:P:272:VAL:HG23	1.78	0.83
3:P:318:GLY:HA3	3:P:322:ARG:HH12	1.41	0.83
2:O:1112:ILE:CD1	3:P:639:VAL:O	2.25	0.83
5:R:450:ILE:HD12	5:R:452:ILE:HD11	1.60	0.83
1:A:35:PHE:O	1:A:39:LEU:CG	2.25	0.83
3:J:1040:MET:HE2	3:J:1046:ILE:HD13	1.60	0.83
2:O:1077:SER:HA	3:P:356:THR:CG2	2.09	0.83
2:O:1237:HIS:CG	2:O:1242:LYS:HZ1	1.96	0.83
2:O:1246:ARG:HD2	2:O:1265:PHE:O	1.77	0.83
5:R:494:ILE:O	5:R:498:LEU:HG	1.77	0.83
6:4:50:DT:H5'	6:4:51:DC:C6	2.13	0.83
3:D:1306:LEU:HD12	3:D:1307:LEU:N	1.92	0.83
3:D:880:VAL:HG12	3:D:881:LYS:N	1.91	0.83
5:F:518:HIS:O	5:F:520:GLY:N	2.12	0.83
3:J:950:ILE:HB	3:J:1018:ALA:HB3	1.60	0.83
5:L:548:LEU:HD23	5:L:551:LEU:HD12	1.59	0.83
1:M:158:ARG:HE	1:M:172:LEU:HD21	1.42	0.83
2:O:1324:ASN:HA	2:O:1327:LEU:HD12	1.59	0.83
2:O:9:LYS:HE2	2:O:1171:ARG:HD3	1.59	0.83
2:O:1294:LYS:HB3	3:P:347:VAL:HG13	1.61	0.83
2:C:797:GLY:HA3	2:C:1233:LEU:CD2	2.08	0.83
2:I:333:ILE:HG22	2:I:334:GLU:H	1.43	0.83
2:I:1294:LYS:HD3	3:J:347:VAL:CG1	2.07	0.83
1:M:39:LEU:C	1:M:43:LEU:HG	1.99	0.83
1:A:75:GLN:O	2:C:729:ALA:HB2	1.79	0.83
2:C:807:TRP:CD1	2:C:817:LEU:HD11	2.14	0.83
3:D:316:ILE:HG22	3:D:324:LEU:HD12	1.59	0.83
5:F:583:THR:HG21	5:F:587:ILE:HD11	1.60	0.83
2:I:725:GLN:NE2	2:I:735:LYS:HE2	1.92	0.83
2:I:870:ILE:CB	2:I:944:ARG:HD3	2.08	0.83
3:J:1040:MET:HE3	3:J:1046:ILE:HG21	1.60	0.83
5:L:132:CYS:SG	5:L:257:LYS:NZ	2.51	0.83
5:L:145:LEU:HD22	5:L:225:ARG:HH12	1.44	0.83
5:L:91:ILE:O	5:L:91:ILE:HG22	1.78	0.83
2:O:340:ASP:HA	2:O:344:GLY:HA2	1.59	0.83
2:O:178:PRO:HA	2:O:397:LEU:CD2	2.08	0.83
2:I:151:ARG:HD2	2:I:445:ILE:CG2	2.09	0.83
2:O:197:ARG:HB3	2:O:200:ARG:HA	1.61	0.83
3:P:975:ILE:HD11	3:P:1003:LEU:HD11	1.60	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:91:THR:HG23	2:C:138:ILE:HA	1.60	0.82
3:D:1270:GLY:HA2	3:D:1298:VAL:HB	1.60	0.82
3:D:496:GLY:HA2	3:D:903:LEU:HD22	1.61	0.82
2:I:1278:LEU:HD22	2:I:1283:ALA:HB3	1.61	0.82
3:J:342:LEU:HB3	3:J:1352:ILE:HG12	1.60	0.82
2:O:1101:LEU:HD21	3:P:725:MET:HG2	1.59	0.82
3:P:1221:LEU:HD11	3:P:1304:ARG:O	1.79	0.82
3:P:312:ARG:HB3	3:P:312:ARG:HH11	1.41	0.82
3:P:499:ILE:HG22	3:P:500:ILE:HG12	1.61	0.82
1:N:85:LEU:HA	1:N:88:LEU:HD22	1.59	0.82
2:O:960:LEU:HB3	2:O:1025:PHE:HE1	1.43	0.82
5:R:591:GLU:O	5:R:595:LEU:HG	1.78	0.82
1:A:140:ILE:HG13	1:A:141:SER:H	1.43	0.82
3:D:147:ILE:CD1	3:D:178:ALA:HA	2.08	0.82
5:L:390:ILE:HD13	5:L:432:THR:HG23	1.62	0.82
2:C:674:ASP:O	3:D:772:TYR:OH	1.95	0.82
2:I:745:GLU:HG3	2:I:746:ALA:N	1.95	0.82
3:P:1259:GLN:NE2	3:P:1259:GLN:HA	1.94	0.82
3:P:883:ARG:NE	3:P:898:CYS:SG	2.52	0.82
4:Q:18:ASP:O	4:Q:22:VAL:HG23	1.78	0.82
5:L:395:THR:HA	5:L:404:LEU:HD13	1.61	0.82
1:B:88:LEU:CD1	1:B:128:HIS:CG	2.62	0.82
2:C:1327:LEU:HA	2:C:1337:ILE:CD1	2.10	0.82
3:D:209:ASN:HB2	3:D:214:ARG:HD3	1.60	0.82
2:I:524:ILE:HD11	2:I:712:SER:CB	2.09	0.82
3:J:1233:ILE:O	3:J:1237:VAL:HG23	1.79	0.82
2:O:839:VAL:O	2:O:886:LYS:HE2	1.79	0.82
8:3:13:GTP:PA	8:3:13:GTP:H8	2.03	0.82
6:4:47:DC:N3	6:4:48:DA:C6	2.48	0.82
2:C:1232:MET:C	2:C:1233:LEU:HG	1.99	0.82
3:D:117:LEU:HA	3:D:124:ILE:HD11	1.60	0.82
5:F:385:ARG:O	5:F:388:ILE:HG22	1.79	0.82
5:L:437:GLN:OE1	7:5:27:DA:N6	2.12	0.82
3:P:53:ARG:O	3:P:58:CYS:HB2	1.78	0.82
2:C:524:ILE:CD1	2:C:712:SER:HB3	2.09	0.82
2:C:896:THR:HG23	2:C:898:GLU:HB2	1.60	0.82
2:C:1289:GLU:CD	3:D:472:LEU:HB2	2.00	0.82
1:H:82:LEU:HD22	1:H:173:VAL:CG2	2.09	0.82
5:L:469:GLN:O	5:L:472:GLN:HG2	1.79	0.82
1:M:85:LEU:HD21	1:M:130:ILE:HG23	1.61	0.82
1:N:47:LEU:CD1	1:N:183:ILE:HD13	2.09	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:496:LYS:HB2	2:C:497:PRO:HD3	1.60	0.82
3:D:234:PRO:O	3:D:237:MET:HG2	1.79	0.82
1:G:91:ARG:CD	1:G:124:VAL:HG23	2.10	0.82
3:P:746:LEU:HG	3:P:758:PRO:HB3	1.61	0.82
5:R:450:ILE:O	5:R:450:ILE:HG13	1.77	0.82
1:B:61:ILE:HD13	1:B:64:VAL:HG11	1.61	0.82
2:C:708:VAL:HG11	2:C:794:LEU:HD22	1.60	0.82
3:D:1226:VAL:O	3:D:1230:THR:OG1	1.97	0.82
2:I:1061:GLN:HB2	2:I:1062:PRO:HD2	1.62	0.82
2:I:599:VAL:HG21	2:I:623:LEU:HD11	1.60	0.82
2:I:661:VAL:CG1	2:I:665:ALA:HB3	2.09	0.82
3:P:747:MET:CE	3:P:774:ILE:HG22	2.09	0.82
3:D:644:MET:O	3:D:764:ARG:NH1	2.13	0.81
3:J:24:LEU:HD13	3:J:237:MET:CE	2.10	0.81
3:P:1226:VAL:O	3:P:1230:THR:OG1	1.96	0.81
3:P:1262:ARG:HH12	3:P:1316:THR:HG22	1.45	0.81
1:B:35:PHE:O	1:B:39:LEU:HG	1.80	0.81
3:D:1229:VAL:HG13	3:D:1230:THR:H	1.45	0.81
3:D:205:LEU:CD2	3:D:214:ARG:HG3	2.08	0.81
5:F:440:THR:O	5:F:443:ILE:HG22	1.80	0.81
1:G:69:SER:O	1:G:78:ILE:CG1	2.28	0.81
2:I:167:SER:CB	3:J:1064:SER:HB3	2.10	0.81
3:J:840:LEU:HD13	3:J:869:CYS:SG	2.20	0.81
3:P:843:VAL:HB	3:P:897:HIS:O	1.80	0.81
2:C:1289:GLU:OE1	3:D:472:LEU:CG	2.27	0.81
3:P:385:LEU:HD21	3:P:411:ILE:CD1	2.09	0.81
3:P:816:THR:OG1	3:P:889:ASP:HB2	1.80	0.81
5:R:488:LEU:O	5:R:488:LEU:HG	1.80	0.81
5:F:573:LEU:HB3	7:2:45:DG:OP2	1.80	0.81
3:D:1078:LEU:HD13	3:D:1121:LEU:HD22	1.60	0.81
3:D:431:ARG:NH2	3:D:904:ALA:CB	2.43	0.81
3:D:536:LEU:HD13	3:D:542:ALA:CB	2.10	0.81
2:I:228:VAL:HG22	2:I:245:ARG:NH1	1.95	0.81
2:I:902:LEU:HA	2:I:905:ILE:HD12	1.62	0.81
1:N:140:ILE:HG13	1:N:142:MET:HE1	1.60	0.81
3:P:1163:VAL:HG13	3:P:1177:ILE:HA	1.62	0.81
3:P:697:MET:CE	3:P:737:ILE:CG2	2.58	0.81
3:P:809:VAL:HG23	3:P:915:ILE:HD11	1.63	0.81
3:P:785:ASP:HB3	3:P:935:PHE:CZ	2.16	0.81
3:P:264:ASP:CG	5:R:508:GLU:HB2	2.01	0.81
2:I:298:ALA:HB2	2:I:336:LEU:HD21	1.61	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:700:VAL:HG11	2:I:1114:GLU:HG3	1.62	0.81
4:K:27:ALA:HA	4:K:30:MET:SD	2.20	0.81
5:L:489:MET:HB3	5:L:490:PRO:HD2	1.63	0.81
1:B:190:ALA:H	1:B:199:ASP:HA	1.45	0.81
2:C:525:THR:HG21	2:C:687:ARG:CD	2.11	0.81
2:I:164:THR:O	2:I:168:GLY:HA2	1.80	0.81
3:J:1257:VAL:O	3:J:1261:LEU:HG	1.79	0.81
1:M:68:TYR:HE2	2:O:927:THR:CB	1.93	0.81
3:P:739:GLN:HG2	3:P:744:ARG:CG	2.08	0.81
1:A:57:THR:CG2	1:A:158:ARG:NH2	2.44	0.81
5:F:365:MET:O	5:F:369:GLU:HG3	1.79	0.81
5:F:533:ASP:O	5:F:536:THR:HB	1.80	0.81
2:I:949:GLU:O	2:I:953:LEU:HG	1.81	0.81
3:J:885:VAL:HG11	3:J:1255:VAL:HA	1.63	0.81
4:K:13:ILE:HD12	4:K:19:LEU:HA	1.61	0.81
3:D:1146:GLU:CD	3:D:1309:ILE:HB	2.01	0.81
1:G:48:LEU:HD21	1:G:183:ILE:HG22	1.61	0.81
3:J:1320:ILE:HD12	3:J:1342:ASP:OD2	1.80	0.81
3:J:369:PRO:HD3	3:J:447:ILE:HG13	1.61	0.81
3:J:749:LYS:CB	3:J:750:PRO:HD2	2.10	0.81
2:O:997:TRP:HB3	2:O:1000:LEU:HD23	1.63	0.81
5:R:117:ILE:HG23	5:R:421:TYR:HB2	1.61	0.81
3:D:349:TYR:HB3	3:D:470:VAL:CG2	2.10	0.81
3:D:395:LYS:HA	3:D:398:LYS:CE	2.10	0.81
3:D:880:VAL:CG1	3:D:881:LYS:H	1.93	0.81
2:I:1288:GLN:O	2:I:1292:THR:HG22	1.81	0.81
2:I:666:SER:HA	2:I:1186:VAL:HG21	1.62	0.81
3:J:895:CYS:SG	3:J:898:CYS:N	2.50	0.81
5:L:84:LEU:HD11	5:L:107:THR:HG21	1.60	0.81
2:O:366:ILE:HG22	2:O:384:LEU:HD21	1.62	0.81
3:J:915:ILE:O	3:J:918:ILE:CG2	2.26	0.81
3:P:574:VAL:O	3:P:578:ILE:HG13	1.81	0.81
5:R:540:LEU:O	5:R:544:THR:HG23	1.81	0.81
2:C:19:PRO:HB3	2:C:1156:ARG:HD2	1.61	0.81
5:F:585:GLU:HG3	7:2:47:DC:H41	1.46	0.81
2:I:210:LEU:HB2	2:I:220:ILE:HD11	1.63	0.81
1:N:220:ALA:HA	1:N:223:ILE:HD12	1.63	0.81
2:O:371:ARG:C	5:R:99:ARG:NH2	2.34	0.81
7:8:22:DA:H1'	7:8:23:DT:P	2.22	0.80
3:D:422:LEU:C	3:D:423:LEU:HD23	2.02	0.80
3:D:363:LEU:HG	3:D:487:THR:HG22	1.61	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:47:LEU:CD1	1:G:183:ILE:HD12	2.10	0.80
1:M:150:ARG:HD3	1:M:150:ARG:H	1.45	0.80
6:4:47:DC:N3	6:4:48:DA:N1	2.29	0.80
2:C:1258:PRO:HG2	3:D:346:ARG:HB2	1.63	0.80
2:O:432:LEU:HG	2:O:433:ILE:N	1.94	0.80
6:4:50:DT:H6	6:4:50:DT:H3'	1.45	0.80
3:D:194:LEU:HD12	3:D:194:LEU:H	1.47	0.80
3:D:70:CYS:HB2	3:D:90:VAL:HB	1.63	0.80
3:D:975:ILE:HD12	3:D:997:VAL:HG11	1.63	0.80
5:F:295:CYS:O	5:F:296:LYS:HB2	1.81	0.80
3:J:1350:ASN:ND2	3:J:1356:LEU:O	2.13	0.80
3:J:843:VAL:CG1	3:J:883:ARG:HB3	2.10	0.80
2:O:371:ARG:HB3	5:R:99:ARG:NH2	1.96	0.80
5:L:449:THR:OG1	5:L:504:PRO:CG	2.29	0.80
1:A:44:ARG:O	1:A:47:LEU:HB2	1.82	0.80
5:F:514:ASP:O	5:F:516:ASP:N	2.14	0.80
2:I:868:SER:HB2	2:I:870:ILE:HG12	1.63	0.80
3:J:1259:GLN:OE1	3:J:1262:ARG:CD	2.29	0.80
3:D:795:TYR:OH	7:2:11:DA:H2"	1.82	0.80
2:C:885:GLY:HA2	2:C:917:SER:OG	1.81	0.80
3:D:1229:VAL:HG22	3:D:1230:THR:N	1.95	0.80
3:D:147:ILE:HG13	3:D:178:ALA:HA	1.64	0.80
3:D:259:ARG:NH1	5:F:505:ILE:HG12	1.96	0.80
1:G:47:LEU:HD13	1:G:183:ILE:CD1	2.11	0.80
1:M:41:ASN:HD21	2:O:1218:GLY:N	1.79	0.80
1:M:42:ALA:CA	1:N:38:THR:CG2	2.55	0.80
2:O:333:ILE:HG22	2:O:334:GLU:N	1.95	0.80
3:D:115:TRP:HE3	3:D:1333:THR:HG23	1.46	0.80
2:O:293:ALA:HB2	2:O:319:LEU:HD21	1.63	0.80
2:C:255:ILE:HD13	2:C:285:ILE:CD1	2.11	0.80
2:C:56:VAL:HG12	2:C:59:ILE:HD11	1.62	0.80
3:D:474:LEU:HD12	4:E:28:ARG:HG2	1.64	0.80
1:H:14:VAL:HG21	1:H:29:GLU:HG2	1.62	0.80
2:I:1286:THR:O	2:I:1290:MET:HG2	1.81	0.80
3:J:1259:GLN:OE1	3:J:1262:ARG:HD3	1.82	0.80
1:A:38:THR:HG23	1:B:42:ALA:HA	1.63	0.80
2:C:1278:LEU:HD21	2:C:1286:THR:HB	1.62	0.80
2:C:718:ALA:HB2	2:C:783:LEU:HD21	1.62	0.80
3:D:1259:GLN:HA	3:D:1259:GLN:HE21	1.47	0.80
3:D:1259:GLN:HA	3:D:1259:GLN:NE2	1.95	0.80
4:E:60:ASN:HD21	4:E:62:GLN:HB3	1.44	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:210:LEU:HD23	2:O:213:LEU:HD12	1.61	0.80
5:R:110:LEU:H	5:R:110:LEU:CD1	1.88	0.80
2:C:1109:ILE:HG13	3:D:740:LEU:HD22	1.64	0.80
2:O:1104:PRO:HG3	3:P:725:MET:CE	2.11	0.80
2:O:1273:MET:HB3	3:P:428:THR:HB	1.63	0.80
3:P:1347:LEU:O	3:P:1351:VAL:HG23	1.81	0.80
3:P:261:ALA:HB2	5:R:519:LEU:HD21	1.64	0.80
3:D:1261:LEU:HD13	3:D:1304:ARG:CD	2.11	0.79
2:C:1281:TYR:CE2	3:D:431:ARG:HB2	2.17	0.79
3:D:470:VAL:CB	3:D:472:LEU:HD21	2.06	0.79
2:I:725:GLN:HB3	2:I:733:VAL:HG23	1.64	0.79
2:O:295:LYS:HD2	2:O:335:THR:CG2	2.10	0.79
3:P:1101:LEU:HD22	3:P:1122:ALA:HB3	1.62	0.79
2:C:1031:ALA:HB3	2:C:1032:LYS:HE3	1.63	0.79
2:I:681:MET:O	2:I:685:MET:HG2	1.82	0.79
1:M:152:TYR:OH	1:M:174:ASP:HB3	1.82	0.79
2:O:839:VAL:O	2:O:886:LYS:CE	2.29	0.79
3:P:312:ARG:NH1	3:P:312:ARG:HB3	1.96	0.79
2:C:96:LEU:HB2	2:C:127:ILE:CD1	2.11	0.79
1:G:59:VAL:HG13	1:G:144:ILE:HG12	1.62	0.79
2:I:870:ILE:CG1	2:I:944:ARG:HD3	2.11	0.79
3:J:1280:VAL:HG12	3:J:1281:GLU:H	1.46	0.79
3:J:65:VAL:HG13	3:J:98:ARG:NH1	1.96	0.79
1:B:9:LEU:HD12	1:B:10:LYS:H	1.46	0.79
3:D:783:LEU:CD1	3:D:783:LEU:N	2.44	0.79
3:D:918:ILE:HG22	3:D:919:ALA:H	1.44	0.79
1:G:45:ARG:NH1	2:I:1216:ARG:HA	1.97	0.79
3:J:1284:ARG:O	3:J:1287:ILE:HB	1.82	0.79
1:M:38:THR:CG2	1:N:42:ALA:HB1	2.12	0.79
2:O:681:MET:O	2:O:685:MET:HG2	1.82	0.79
3:P:1031:VAL:HG13	3:P:1091:PRO:HD3	1.63	0.79
2:C:930:ASP:OD2	2:C:932:GLN:NE2	2.15	0.79
2:I:868:SER:HB2	2:I:870:ILE:CG1	2.13	0.79
3:J:849:LEU:HD22	3:J:856:ILE:O	1.83	0.79
2:C:817:LEU:HD21	2:C:1080:ASN:ND2	1.98	0.79
2:C:831:ILE:CD1	2:C:831:ILE:H	1.96	0.79
3:J:825:VAL:CG2	3:J:838:ARG:NH1	2.44	0.79
2:O:1223:ARG:CD	3:P:635:SER:O	2.30	0.79
3:P:464:ASP:OD1	8:9:15:G:O2'	2.01	0.79
5:F:583:THR:CG2	5:F:587:ILE:HD11	2.13	0.79
2:I:247:ARG:HG3	2:I:274:ILE:HD13	1.65	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:805:MET:CE	2:I:806:PRO:HD2	2.13	0.79
3:J:53:ARG:O	3:J:58:CYS:HB2	1.82	0.79
2:O:1290:MET:HA	2:O:1294:LYS:HD2	1.65	0.79
2:O:213:LEU:O	2:O:214:ASN:HB3	1.83	0.79
3:P:135:ILE:O	3:P:139:LEU:HG	1.82	0.79
3:P:419:HIS:O	3:P:439:PRO:CD	2.30	0.79
2:C:301:TYR:CE1	2:C:333:ILE:HG23	2.17	0.79
2:C:448:LEU:HB2	2:C:608:ALA:CB	2.13	0.79
3:D:342:LEU:HD22	3:D:1352:ILE:HG23	1.65	0.79
3:D:139:LEU:O	3:D:141:PHE:CE2	2.34	0.79
4:E:44:ASP:OD2	4:E:48:VAL:HG11	1.82	0.79
2:I:1275:VAL:CG1	2:I:1279:GLU:OE2	2.31	0.79
2:I:811:ASN:O	2:I:1099:ASN:HB2	1.82	0.79
2:I:812:PHE:O	2:I:1099:ASN:ND2	2.15	0.79
3:J:1331:VAL:O	3:J:1334:GLU:HB2	1.82	0.79
3:J:115:TRP:HE3	3:J:1333:THR:HG23	1.46	0.79
3:J:423:LEU:HB3	3:J:466:MET:CE	2.13	0.79
1:M:68:TYR:CE2	2:O:927:THR:HB	2.17	0.79
1:N:191:ARG:HG3	1:N:196:THR:CG2	2.11	0.79
1:N:92:VAL:HG22	1:N:121:VAL:HG22	1.65	0.79
6:1:44:DG:H4'	6:1:44:DG:OP1	1.82	0.79
3:D:259:ARG:HH11	5:F:505:ILE:HG12	1.48	0.79
1:G:47:LEU:HD13	1:G:183:ILE:HD12	1.63	0.79
2:I:870:ILE:HG13	2:I:944:ARG:CD	2.13	0.79
2:I:870:ILE:HG13	2:I:944:ARG:CG	2.13	0.79
3:J:849:LEU:HD11	3:J:857:LEU:HD23	1.63	0.79
2:O:149:LEU:HD11	2:O:451:ARG:HB3	1.65	0.79
1:B:61:ILE:HD11	1:B:171:LEU:CD1	2.13	0.79
3:D:1138:LEU:CB	3:D:1139:PRO:HD3	2.12	0.79
3:D:909:ILE:HD13	3:D:910:ASN:N	1.97	0.79
2:I:149:LEU:HD11	2:I:451:ARG:HB3	1.64	0.79
2:I:297:VAL:HG12	2:I:317:LEU:HD21	1.63	0.79
2:I:589:THR:HG22	2:I:590:PRO:HD2	1.64	0.79
2:O:163:LYS:HG2	2:O:164:THR:N	1.97	0.79
2:O:52:ALA:HB1	2:O:468:LEU:CD1	2.13	0.79
2:C:257:ALA:HB2	2:C:277:LEU:CD1	2.13	0.78
3:D:869:CYS:O	3:D:873:GLU:HG3	1.83	0.78
3:J:46:TYR:O	3:J:49:PHE:CE1	2.35	0.78
3:J:964:LYS:HD3	3:J:1197:ASN:O	1.82	0.78
1:N:38:THR:CB	1:N:39:LEU:HD23	2.13	0.78
2:O:1223:ARG:HD2	3:P:635:SER:O	1.83	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:34:DG:N2	7:5:29:DC:O2	2.16	0.78
2:I:447:HIS:CE1	2:I:553:THR:HG21	2.19	0.78
3:J:115:TRP:HH2	3:J:1329:THR:HA	1.48	0.78
3:J:62:PHE:O	3:J:98:ARG:HG3	1.83	0.78
2:O:310:ILE:HD13	2:O:324:LYS:HB3	1.64	0.78
3:P:325:LYS:HA	3:P:329:ASP:OD2	1.83	0.78
3:P:975:ILE:HD13	3:P:980:THR:HG21	1.64	0.78
6:7:44:DG:H2"	6:7:45:DT:O4'	1.82	0.78
1:G:49:SER:HB2	1:H:33:ARG:NH1	1.99	0.78
3:J:1323:ALA:CB	3:J:1332:LEU:HD21	2.12	0.78
1:M:92:VAL:HG11	1:M:95:LYS:O	1.84	0.78
2:O:1142:ARG:CZ	2:O:1169:VAL:HG21	2.13	0.78
3:P:1282:TYR:O	3:P:1285:VAL:HG12	1.84	0.78
3:P:482:ALA:O	3:P:488:ASN:ND2	2.17	0.78
3:P:314:ARG:NH2	5:R:96:ASP:OD2	2.16	0.78
2:C:538:LEU:HD23	2:C:538:LEU:N	1.98	0.78
2:C:1257:GLN:NE2	3:D:345:LYS:HB3	1.97	0.78
3:D:496:GLY:HA2	3:D:903:LEU:CD2	2.14	0.78
1:G:9:LEU:CD2	1:G:198:LEU:HD21	2.08	0.78
2:I:15:PHE:CE2	2:I:1182:ILE:HG23	2.19	0.78
2:I:1200:LYS:HE3	2:I:1206:THR:HG21	1.64	0.78
2:I:136:PHE:HB3	2:I:138:ILE:HD11	1.64	0.78
2:I:178:PRO:HG3	2:I:395:TYR:CE1	2.18	0.78
2:I:511:LEU:HD11	2:I:535:PRO:HD2	1.64	0.78
3:J:832:LYS:NZ	3:J:1242:ARG:HB3	1.98	0.78
1:M:225:ALA:HB2	1:N:228:LEU:HD11	1.66	0.78
5:R:96:ASP:O	5:R:100:MET:HG3	1.83	0.78
1:B:219:ARG:O	1:B:223:ILE:HG13	1.84	0.78
2:C:1323:PHE:CE1	2:C:1327:LEU:HD21	2.14	0.78
2:C:896:THR:CG2	2:C:898:GLU:HB2	2.13	0.78
3:D:1229:VAL:O	3:D:1233:ILE:CG1	2.31	0.78
3:D:814:CYS:SG	10:D:1502:ZN:ZN	1.72	0.78
3:D:601:ILE:HG22	3:D:602:SER:N	1.95	0.78
3:J:447:ILE:HD12	3:J:447:ILE:N	1.98	0.78
2:O:213:LEU:O	2:O:214:ASN:HB2	1.82	0.78
2:O:726:TYR:HB3	2:O:733:VAL:CG2	2.14	0.78
3:P:407:VAL:O	3:P:411:ILE:HG13	1.84	0.78
2:C:1183:ALA:O	2:C:1185:PRO:HD3	1.83	0.78
2:C:790:ASP:O	2:C:792:GLY:N	2.17	0.78
3:D:845:ALA:HB3	3:D:881:LYS:HD3	1.64	0.78
2:I:678:ARG:HD3	2:I:1106:ARG:O	1.82	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:658:GLN:NE2	2:I:1186:VAL:H	1.81	0.78
3:J:1342:ASP:OD2	3:J:1344:LEU:HG	1.84	0.78
2:C:1058:ARG:HH11	2:C:1238:LEU:HD12	1.49	0.78
3:D:432:LEU:HD12	3:D:499:ILE:HD13	1.64	0.78
3:J:62:PHE:HB3	3:J:98:ARG:CG	2.11	0.78
1:M:56:VAL:HG13	1:M:144:ILE:HG23	1.64	0.78
1:M:8:PHE:CZ	1:N:223:ILE:CG2	2.66	0.78
2:O:1294:LYS:HD3	3:P:347:VAL:CG1	2.14	0.78
3:D:452:LEU:HD11	3:D:625:MET:SD	2.23	0.78
3:D:322:ARG:HE	5:F:510:PRO:HD3	1.48	0.78
2:I:538:LEU:N	2:I:538:LEU:HD23	1.95	0.78
3:J:1140:ARG:O	3:J:1144:LEU:HG	1.83	0.78
3:J:795:TYR:O	3:J:799:ARG:HG3	1.84	0.78
1:M:57:THR:HG22	1:M:58:GLU:HG3	1.66	0.78
1:N:35:PHE:HB3	1:N:39:LEU:HD11	1.66	0.78
1:N:44:ARG:CA	1:N:47:LEU:HD12	2.13	0.78
3:P:79:LYS:HG3	5:R:569:THR:HG23	1.63	0.78
2:C:797:GLY:CA	2:C:1233:LEU:HD21	2.13	0.78
1:H:100:LEU:HB3	1:H:115:ILE:HD12	1.64	0.78
1:G:232:VAL:CG2	1:H:221:ALA:HB3	2.13	0.78
3:J:1272:SER:HB2	3:J:1274:PHE:CZ	2.19	0.78
3:J:423:LEU:CB	3:J:466:MET:HE1	2.14	0.78
1:B:154:PRO:HD2	1:B:157:THR:HB	1.64	0.78
3:D:1252:HIS:HB2	3:D:1253:ILE:HD12	1.66	0.78
2:I:530:ILE:HD11	2:I:575:LEU:HB2	1.66	0.78
2:C:164:THR:O	2:C:165:HIS:HB2	1.81	0.77
3:D:53:ARG:O	3:D:58:CYS:HB2	1.84	0.77
3:D:452:LEU:CG	3:D:625:MET:SD	2.72	0.77
5:F:84:LEU:CG	5:F:107:THR:HG21	2.14	0.77
5:F:141:ILE:HD11	5:F:256:PHE:CE1	2.19	0.77
2:I:715:THR:HG22	2:I:786:GLY:H	1.49	0.77
3:J:352:ARG:O	3:J:372:MET:HE1	1.84	0.77
3:J:931:THR:HG23	3:J:1134:ILE:HB	1.65	0.77
5:L:392:LYS:HD2	6:4:43:DT:H2"	1.66	0.77
1:M:47:LEU:CD1	1:M:183:ILE:HD12	2.02	0.77
3:P:481:ARG:O	3:P:485:MET:HB2	1.83	0.77
3:D:848:VAL:HG21	3:D:880:VAL:HG11	1.65	0.77
1:N:158:ARG:HD2	1:N:172:LEU:HD21	1.64	0.77
2:O:1269:ARG:NH1	3:P:340:GLN:HG3	2.00	0.77
1:A:228:LEU:HA	1:A:231:PHE:CD2	2.19	0.77
2:C:82:VAL:HG23	2:C:83:GLN:N	1.99	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:490:ILE:H	3:D:490:ILE:HD12	1.48	0.77
1:N:179:PRO:O	1:N:208:ASN:CB	2.32	0.77
1:N:224:LEU:C	1:N:224:LEU:HD12	2.02	0.77
2:O:191:LYS:O	2:O:192:ASP:HB2	1.83	0.77
1:B:217:ILE:CD1	1:B:217:ILE:N	2.48	0.77
2:C:1334:GLY:O	3:D:25:ALA:HB2	1.84	0.77
2:C:568:ASN:HA	2:C:571:LEU:HD12	1.66	0.77
3:J:1146:GLU:OE2	3:J:1309:ILE:HB	1.84	0.77
1:M:152:TYR:CD1	1:M:175:ALA:O	2.38	0.77
3:P:963:VAL:CG2	3:P:975:ILE:HG23	2.14	0.77
2:C:1290:MET:N	2:C:1290:MET:SD	2.54	0.77
3:J:369:PRO:CD	3:J:447:ILE:HG13	2.14	0.77
3:J:849:LEU:HD11	3:J:857:LEU:CD2	2.15	0.77
5:L:407:GLU:HA	5:L:410:ILE:HD12	1.66	0.77
2:O:559:CYS:CB	2:O:662:SER:HB3	2.15	0.77
7:5:4:DC:C4	7:5:5:DC:N4	2.53	0.77
2:C:1098:LEU:HD22	2:C:1099:ASN:H	1.49	0.77
2:C:1335:ILE:HD12	2:C:1335:ILE:N	1.99	0.77
2:I:298:ALA:CB	2:I:336:LEU:HD21	2.15	0.77
2:I:560:PRO:HB2	3:J:776:THR:HG21	1.67	0.77
3:J:918:ILE:CG2	3:J:919:ALA:N	2.47	0.77
1:N:88:LEU:CD1	1:N:128:HIS:CD2	2.66	0.77
2:O:1292:THR:HG23	2:O:1293:VAL:H	1.49	0.77
3:D:435:GLN:OE1	3:D:486:SER:HB3	1.85	0.77
1:G:78:ILE:HA	1:G:81:ILE:HD12	1.65	0.77
3:J:1318:SER:OG	3:J:1321:SER:HB3	1.83	0.77
3:J:807:LEU:HD11	3:J:1259:GLN:HE21	1.49	0.77
4:Q:2:ALA:N	4:Q:6:VAL:HG13	2.00	0.77
1:B:61:ILE:HD11	1:B:171:LEU:HD12	1.66	0.77
2:C:1252:SER:HA	2:C:1259:LEU:HD21	1.67	0.77
2:C:1278:LEU:HD13	2:C:1287:LEU:HA	1.67	0.77
2:C:522:SER:O	2:C:525:THR:HG22	1.85	0.77
3:D:1163:VAL:HG13	3:D:1176:VAL:O	1.85	0.77
3:D:492:SER:OG	3:D:495:ASN:N	2.17	0.77
5:F:166:VAL:HG12	5:F:167:ASP:N	1.98	0.77
3:J:495:ASN:HD21	3:J:497:GLU:HB2	1.50	0.77
3:J:807:LEU:HD11	3:J:1259:GLN:NE2	1.98	0.77
2:O:237:LEU:HD12	2:O:289:VAL:HG22	1.66	0.77
3:P:425:ARG:HD2	3:P:457:TYR:CB	2.14	0.77
3:P:747:MET:HE2	3:P:774:ILE:HG22	1.67	0.77
1:B:224:LEU:HG	1:B:225:ALA:N	2.00	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1288:GLN:HB3	2:C:1315:MET:CE	2.14	0.77
2:C:96:LEU:HB3	2:C:127:ILE:HD11	1.66	0.77
3:J:24:LEU:HD12	3:J:232:ASN:CB	2.14	0.77
3:J:513:MET:HE1	3:J:579:LEU:HD21	1.66	0.77
2:O:1100:PRO:HB3	3:P:639:VAL:HG23	1.67	0.77
2:O:52:ALA:HB3	2:O:464:PHE:CE2	2.20	0.77
3:P:428:THR:O	3:P:428:THR:CG2	2.32	0.77
3:D:425:ARG:HH22	8:3:16:U:C4'	1.97	0.77
2:C:1108:ASN:N	2:C:1108:ASN:OD1	2.17	0.77
2:C:1321:GLU:O	2:C:1325:VAL:HG23	1.84	0.77
3:D:186:GLN:CA	3:D:189:LEU:HD12	2.12	0.77
3:D:382:TYR:HE1	3:D:398:LYS:HA	1.50	0.77
2:I:165:HIS:CB	2:I:168:GLY:H	1.98	0.77
2:I:886:LYS:N	2:I:917:SER:OG	2.18	0.77
3:J:515:ARG:HH21	3:J:717:VAL:HB	1.49	0.77
1:N:162:GLU:OE2	1:N:166:ARG:NH1	2.18	0.77
2:O:1085:MET:HA	2:O:1085:MET:HE3	1.66	0.77
2:O:347:ILE:HD11	2:O:433:ILE:HD11	1.66	0.77
1:A:13:LEU:HA	1:A:28:LEU:HD22	1.65	0.76
1:B:48:LEU:HD21	1:B:183:ILE:HG21	1.65	0.76
2:C:1327:LEU:HA	2:C:1330:ILE:HD12	1.67	0.76
2:C:555:TYR:OH	3:D:769:VAL:HG11	1.84	0.76
3:D:657:ALA:O	3:D:661:VAL:HG23	1.84	0.76
3:D:849:LEU:HD23	3:D:856:ILE:O	1.83	0.76
3:J:1253:ILE:O	3:J:1257:VAL:HG23	1.84	0.76
3:J:132:LEU:HA	3:J:135:ILE:HD12	1.67	0.76
3:J:899:TYR:CE1	3:J:915:ILE:CG2	2.67	0.76
2:O:719:LYS:HA	2:O:719:LYS:HE2	1.66	0.76
3:P:805:GLN:HB2	3:P:1347:LEU:HD12	1.67	0.76
2:C:1292:THR:HG23	2:C:1293:VAL:N	2.01	0.76
2:C:314:ASN:ND2	2:C:351:LEU:HD13	2.00	0.76
1:G:232:VAL:HG22	1:H:221:ALA:HB3	1.66	0.76
2:I:12:ARG:NH2	2:I:793:GLU:OE1	2.15	0.76
3:J:1029:THR:CG2	3:J:1121:LEU:HD11	2.15	0.76
3:J:145:VAL:HG23	3:J:158:GLN:O	1.85	0.76
3:J:843:VAL:HG21	3:J:897:HIS:HB3	1.66	0.76
3:P:139:LEU:HD21	3:P:185:ILE:CD1	2.08	0.76
3:P:262:THR:C	5:R:507:MET:HB3	2.05	0.76
3:P:384:LYS:HZ3	3:P:415:VAL:HG22	1.48	0.76
1:B:75:GLN:HG3	1:B:134:THR:CG2	2.16	0.76
3:D:1348:LYS:HA	3:D:1351:VAL:CG2	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1348:LYS:O	3:D:1351:VAL:HB	1.86	0.76
3:J:620:PHE:O	3:J:624:ILE:HD12	1.86	0.76
1:N:47:LEU:O	1:N:51:MET:CG	2.33	0.76
1:N:88:LEU:HD21	1:N:130:ILE:HG12	1.66	0.76
3:P:1190:ILE:HG22	3:P:1191:PRO:O	1.84	0.76
3:P:770:LEU:O	3:P:774:ILE:HG13	1.85	0.76
3:D:116:PHE:O	3:D:124:ILE:CD1	2.33	0.76
3:D:809:VAL:HB	3:D:912:GLY:H	1.50	0.76
2:O:802:VAL:CG2	2:O:1096:ILE:HB	2.14	0.76
3:P:1080:ILE:HB	3:P:1097:ALA:HB3	1.67	0.76
1:A:30:PRO:HB2	1:A:198:LEU:HD22	1.66	0.76
2:C:112:GLY:O	2:C:114:VAL:N	2.17	0.76
2:C:402:ARG:HG2	2:C:416:GLY:CA	2.10	0.76
4:E:39:VAL:CG1	4:E:40:PRO:CD	2.51	0.76
3:J:242:LEU:HD12	3:J:243:PRO:CD	2.10	0.76
1:M:39:LEU:N	1:M:39:LEU:HD23	1.99	0.76
5:R:392:LYS:HA	5:R:395:THR:CG2	2.13	0.76
2:C:1199:LEU:HD23	2:C:1204:LEU:HD13	1.68	0.76
2:C:367:TYR:HD1	2:C:384:LEU:HD22	1.49	0.76
3:J:795:TYR:OH	3:J:1326:GLN:NE2	2.19	0.76
2:I:1270:PHE:HB2	3:J:347:VAL:HG21	1.68	0.76
3:J:805:GLN:HB2	3:J:1347:LEU:CD1	2.15	0.76
2:O:537:GLY:C	2:O:538:LEU:HD23	2.06	0.76
3:P:259:ARG:HH12	5:R:502:LYS:HG2	1.50	0.76
1:B:48:LEU:HD21	1:B:183:ILE:CG2	2.16	0.76
1:B:75:GLN:HG3	1:B:134:THR:HG23	1.67	0.76
1:B:88:LEU:HD11	1:B:128:HIS:CB	2.15	0.76
2:C:1334:GLY:O	3:D:25:ALA:CB	2.34	0.76
3:D:483:LEU:HD21	4:E:16:ARG:HB3	1.68	0.76
5:L:598:LEU:HD23	5:L:598:LEU:N	2.01	0.76
1:M:225:ALA:HB2	1:N:228:LEU:HD12	1.68	0.76
1:N:107:ILE:HD11	1:N:136:GLU:OE1	1.85	0.76
5:R:120:ALA:HA	5:R:123:ILE:HD12	1.67	0.76
6:7:47:DC:H4'	6:7:48:DA:OP1	1.85	0.76
3:D:1080:ILE:HD11	3:D:1121:LEU:HD11	1.68	0.76
2:I:698:PRO:HB3	2:I:1069:ARG:HH22	1.48	0.76
2:I:232:ILE:CD1	2:I:326:SER:HB3	2.15	0.76
2:I:883:LEU:HD21	2:I:920:VAL:HG23	1.66	0.76
3:J:1217:PRO:HB2	3:J:1306:LEU:HD21	1.68	0.76
3:P:126:LEU:HD22	3:P:216:LYS:NZ	2.00	0.76
2:C:253:PHE:HB2	2:C:288:PRO:HG2	1.68	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:311:CYS:SG	2:C:325:LEU:HD21	2.26	0.76
2:C:448:LEU:HG	2:C:553:THR:CB	2.16	0.76
2:I:390:PHE:CD2	2:I:390:PHE:N	2.54	0.76
4:K:26:ARG:O	4:K:30:MET:HG3	1.86	0.76
1:M:100:LEU:HD22	1:M:115:ILE:HG21	1.66	0.76
2:O:13:LYS:HB2	2:O:1149:TYR:CE1	2.20	0.76
2:O:726:TYR:HB3	2:O:733:VAL:HG22	1.68	0.76
1:B:217:ILE:HD12	1:B:217:ILE:N	1.98	0.76
3:D:1261:LEU:CD1	3:D:1304:ARG:HD2	2.16	0.76
3:D:363:LEU:CG	3:D:487:THR:HG22	2.16	0.76
3:D:835:LEU:CG	3:D:836:ARG:N	2.48	0.76
5:L:166:VAL:HG12	5:L:168:PRO:CD	2.16	0.76
2:O:702:THR:HG22	2:O:1184:THR:O	1.85	0.76
3:P:697:MET:SD	3:P:741:ALA:HB3	2.26	0.76
3:D:1287:ILE:CG2	3:D:1288:ALA:N	2.39	0.75
2:C:892:GLU:OE2	3:D:69:GLU:OE2	2.04	0.75
5:F:117:ILE:HG23	5:F:421:TYR:HB2	1.68	0.75
2:I:165:HIS:CE1	2:I:190:PRO:HB3	2.20	0.75
3:J:24:LEU:HD13	3:J:237:MET:HE1	1.68	0.75
3:J:843:VAL:HB	3:J:897:HIS:O	1.85	0.75
5:L:548:LEU:HD23	5:L:551:LEU:HD11	1.67	0.75
2:O:1252:SER:HA	2:O:1259:LEU:HD21	1.68	0.75
3:P:601:ILE:O	3:P:605:LEU:HG	1.86	0.75
3:P:673:VAL:CG1	3:P:678:ARG:HB2	2.15	0.75
3:P:739:GLN:HE21	3:P:744:ARG:CG	1.99	0.75
2:C:448:LEU:HG	2:C:553:THR:OG1	1.85	0.75
2:C:577:VAL:HG23	2:C:661:VAL:O	1.86	0.75
2:C:714:VAL:HG11	2:C:787:PRO:HD2	1.67	0.75
3:D:1145:PHE:CE1	3:D:1256:ILE:CD1	2.65	0.75
5:F:401:PHE:HA	5:F:404:LEU:HD12	1.68	0.75
3:P:1145:PHE:O	3:P:1309:ILE:HG13	1.87	0.75
5:R:370:ALA:HA	5:R:373:ARG:NH1	2.00	0.75
5:R:434:TRP:CE2	6:7:36:DT:H72	2.21	0.75
2:C:1061:GLN:HB2	2:C:1062:PRO:HD2	1.68	0.75
2:I:761:GLN:O	2:I:762:ASN:HB2	1.86	0.75
3:J:128:LEU:HD11	3:J:189:LEU:CD2	2.12	0.75
3:J:826:ILE:HG21	3:J:994:SER:HB3	1.66	0.75
5:L:381:GLU:O	5:L:384:LEU:HG	1.86	0.75
5:L:580:PHE:O	5:L:581:ASP:HB2	1.85	0.75
3:P:139:LEU:HD23	3:P:185:ILE:HD11	1.61	0.75
2:C:550:VAL:HG23	3:D:780:ARG:HD2	1.68	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:371:LYS:O	3:D:374:LEU:HD23	1.85	0.75
3:J:447:ILE:HD12	3:J:447:ILE:H	1.49	0.75
1:M:44:ARG:CA	1:M:47:LEU:HD12	2.13	0.75
1:N:102:LEU:CD1	1:N:114:ASP:HB3	2.14	0.75
3:P:795:TYR:O	3:P:799:ARG:HG3	1.85	0.75
3:D:551:ARG:O	3:D:552:ILE:HD13	1.87	0.75
3:J:703:THR:O	3:J:718:SER:HB3	1.87	0.75
5:L:386:LEU:HB2	6:4:41:DT:O2	1.86	0.75
1:N:219:ARG:O	1:N:223:ILE:HG13	1.86	0.75
2:O:1107:MET:HG2	3:P:740:LEU:HD11	1.69	0.75
5:R:607:LEU:HA	5:R:610:PHE:HD2	1.51	0.75
2:C:1292:THR:HG23	2:C:1293:VAL:H	1.51	0.75
3:D:974:VAL:HG11	3:D:1028:ILE:HG21	1.69	0.75
3:D:245:LEU:HD12	3:D:246:PRO:HD2	1.69	0.75
5:F:520:GLY:HA2	5:F:523:ILE:HD11	1.68	0.75
2:I:1101:LEU:HD11	3:J:508:LEU:HD22	1.68	0.75
2:I:1243:MET:HA	3:J:372:MET:HE3	1.69	0.75
2:I:1278:LEU:CD2	2:I:1283:ALA:HB3	2.16	0.75
3:J:135:ILE:O	3:J:139:LEU:HG	1.87	0.75
5:L:145:LEU:HD13	5:L:225:ARG:HH11	1.52	0.75
5:L:455:HIS:HD2	5:L:455:HIS:H	1.29	0.75
2:O:685:MET:HE1	2:O:1073:LYS:HB3	1.68	0.75
2:O:375:PRO:HA	5:R:87:VAL:HG22	1.66	0.75
2:C:708:VAL:HG11	2:C:794:LEU:CD2	2.16	0.75
3:D:1284:ARG:HA	3:D:1287:ILE:HD12	1.67	0.75
3:D:1344:LEU:HA	3:D:1349:GLU:OE1	1.86	0.75
3:D:492:SER:OG	3:D:495:ASN:O	2.04	0.75
3:D:909:ILE:CD1	3:D:910:ASN:O	2.33	0.75
1:G:42:ALA:HA	1:H:38:THR:HG23	1.69	0.75
1:H:27:THR:HG22	1:H:202:VAL:HG13	1.67	0.75
2:I:21:VAL:HG11	2:I:592:ARG:HD3	1.69	0.75
2:O:178:PRO:HB3	2:O:395:TYR:CZ	2.22	0.75
3:P:805:GLN:CB	3:P:1347:LEU:HD12	2.16	0.75
1:A:179:PRO:HA	1:A:208:ASN:HD21	1.52	0.75
2:C:1281:TYR:OH	3:D:431:ARG:O	2.04	0.75
2:I:120:GLN:HG2	2:I:489:PRO:HG2	1.69	0.75
3:J:502:PRO:HG2	3:J:601:ILE:CG2	2.16	0.75
1:M:13:LEU:HA	1:M:28:LEU:HD22	1.69	0.75
2:O:1142:ARG:HH12	2:O:1169:VAL:CG2	2.00	0.75
3:P:1262:ARG:NH1	3:P:1316:THR:HG22	2.01	0.75
2:O:1243:MET:HG3	3:P:372:MET:CE	2.16	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1286:THR:OG1	3:P:479:GLU:OE2	2.01	0.75
5:R:519:LEU:O	5:R:519:LEU:HD12	1.86	0.75
3:D:915:ILE:O	3:D:918:ILE:HG22	1.86	0.75
1:G:156:SER:O	1:G:159:ILE:HG22	1.86	0.75
2:I:1035:LYS:O	2:I:1036:ILE:HG13	1.86	0.75
2:I:594:VAL:HG22	2:I:599:VAL:HG13	1.69	0.75
2:I:1101:LEU:HD11	3:J:508:LEU:CD2	2.16	0.75
2:O:227:LYS:HD3	2:O:334:GLU:OE2	1.87	0.75
2:I:1134:GLN:O	2:I:1136:GLN:N	2.19	0.74
2:I:558:VAL:HG22	2:I:574:SER:O	1.87	0.74
3:J:1040:MET:CE	3:J:1046:ILE:HG21	2.17	0.74
3:J:1101:LEU:HD22	3:J:1122:ALA:HB2	1.68	0.74
3:J:823:THR:HG22	3:J:879:ALA:CB	2.16	0.74
3:D:26:SER:HB3	3:D:29:MET:HB2	1.68	0.74
3:D:485:MET:HG3	3:D:487:THR:OG1	1.87	0.74
3:J:233:LYS:CG	3:J:234:PRO:HD2	2.17	0.74
2:O:232:ILE:HG21	2:O:326:SER:HB3	1.68	0.74
1:A:185:TYR:O	1:A:185:TYR:CD2	2.40	0.74
3:D:369:PRO:HG2	3:D:372:MET:CE	2.18	0.74
3:D:282:LEU:HD21	5:F:410:ILE:CG1	2.17	0.74
2:I:187:GLU:O	2:I:194:LEU:CD1	2.33	0.74
1:N:38:THR:CB	1:N:39:LEU:CD2	2.63	0.74
2:O:1309:VAL:HG13	3:P:383:GLY:HA2	1.69	0.74
3:P:709:ARG:HG3	3:P:709:ARG:O	1.84	0.74
2:C:1161:LEU:CD1	2:C:1164:PHE:HB2	2.16	0.74
2:C:953:LEU:HD22	2:C:957:LYS:HE3	1.67	0.74
3:D:1280:VAL:CG1	3:D:1281:GLU:N	2.51	0.74
3:D:848:VAL:CG2	3:D:880:VAL:HG11	2.17	0.74
3:J:406:ALA:HA	3:J:409:TRP:HD1	1.50	0.74
1:M:43:LEU:HD13	1:M:203:ILE:CD1	2.16	0.74
2:O:298:ALA:N	2:O:334:GLU:O	2.19	0.74
2:O:188:PHE:CE2	2:O:432:LEU:HD11	2.21	0.74
3:P:611:ILE:HG22	3:P:612:LEU:HD23	1.69	0.74
1:A:47:LEU:CD1	1:A:183:ILE:HD12	2.17	0.74
1:A:44:ARG:HA	1:A:47:LEU:CD1	2.17	0.74
4:E:53:GLU:HB3	4:E:59:ILE:HG13	1.67	0.74
1:G:180:VAL:HA	1:G:207:THR:HG22	1.69	0.74
1:H:60:GLU:O	1:H:142:MET:HB2	1.87	0.74
2:I:237:LEU:HD12	2:I:289:VAL:CG2	2.10	0.74
3:J:355:ILE:O	3:J:355:ILE:HG13	1.87	0.74
3:J:864:LEU:HD13	3:J:872:LEU:HD11	1.69	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:875:ASN:O	3:J:876:SER:HB2	1.88	0.74
3:P:1229:VAL:O	3:P:1233:ILE:HG13	1.86	0.74
1:A:192:VAL:CB	1:A:195:ARG:O	2.34	0.74
2:I:1111:GLN:HB2	2:I:1230:MET:CE	2.17	0.74
2:I:988:LYS:HZ2	2:I:992:LEU:HD12	1.52	0.74
3:J:490:ILE:HD11	3:J:614:LEU:HD11	1.69	0.74
2:I:674:ASP:O	3:J:772:TYR:HE1	1.70	0.74
1:M:38:THR:CG2	1:N:42:ALA:CB	2.66	0.74
1:N:99:ILE:HG12	1:N:145:LYS:HE2	1.69	0.74
3:P:138:VAL:HG12	3:P:139:LEU:CD2	2.16	0.74
1:B:124:VAL:CG2	1:B:210:THR:HG23	2.18	0.74
2:C:854:ILE:HD12	2:C:862:LEU:CD2	2.18	0.74
3:D:1260:MET:O	3:D:1307:LEU:HG	1.86	0.74
3:D:502:PRO:HG2	3:D:601:ILE:HD13	1.69	0.74
3:J:1266:ILE:HD12	3:J:1278:GLU:CB	2.18	0.74
3:J:1280:VAL:HG12	3:J:1281:GLU:N	2.03	0.74
3:J:160:LEU:HD23	3:J:164:GLN:HB3	1.68	0.74
3:J:584:PRO:HD3	3:J:620:PHE:CD1	2.23	0.74
2:C:559:CYS:SG	2:C:661:VAL:CG1	2.76	0.74
3:D:363:LEU:HG	3:D:487:THR:CG2	2.17	0.74
3:D:475:GLU:OE2	4:E:28:ARG:NH2	2.21	0.74
2:I:201:ARG:CB	2:I:369:MET:HE1	2.14	0.74
2:O:528:ARG:NH1	2:O:575:LEU:O	2.21	0.74
2:O:448:LEU:HD11	2:O:557:ARG:HD2	1.64	0.74
3:P:385:LEU:CD2	3:P:411:ILE:HD13	2.17	0.74
7:8:18:DT:H2'	7:8:19:DA:H5"	1.69	0.74
1:B:100:LEU:CD1	1:B:115:ILE:CG2	2.58	0.74
2:I:1329:GLU:O	2:I:1333:LEU:HG	1.88	0.74
2:I:167:SER:HA	3:J:1064:SER:HB2	1.68	0.74
2:I:237:LEU:CD1	2:I:289:VAL:CG2	2.58	0.74
3:J:185:ILE:O	3:J:189:LEU:CD1	2.34	0.74
3:J:431:ARG:HH21	3:J:904:ALA:CB	2.01	0.74
2:O:1161:LEU:HD11	2:O:1164:PHE:HB2	1.68	0.74
3:P:182:ALA:HA	3:P:185:ILE:HD12	1.69	0.74
3:P:30:ILE:HA	3:P:33:TRP:CE3	2.23	0.74
5:R:407:GLU:HG2	5:R:442:SER:CB	2.18	0.74
6:1:51:DC:C5	6:1:52:DT:H73	2.23	0.74
2:C:524:ILE:HD11	2:C:712:SER:CB	2.16	0.74
2:C:851:THR:HG22	2:C:852:ALA:N	2.02	0.74
3:D:1138:LEU:HD23	3:D:1139:PRO:CG	2.18	0.74
3:D:1346:GLY:C	3:D:1349:GLU:HG3	2.09	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:68:TYR:CE1	3:D:93:THR:HA	2.23	0.74
4:E:60:ASN:OD1	4:E:61:ASN:N	2.21	0.74
2:I:890:LYS:NZ	2:I:893:THR:HG23	2.03	0.74
2:I:674:ASP:O	3:J:772:TYR:CE1	2.41	0.74
2:O:758:ARG:HA	2:O:833:ILE:HD12	1.69	0.74
3:P:1348:LYS:O	3:P:1352:ILE:HG13	1.87	0.74
3:P:497:GLU:HB3	3:P:498:PRO:CD	2.17	0.74
3:D:82:GLY:HA2	3:D:91:GLU:OE2	1.87	0.73
2:I:1151:LEU:HD22	2:I:1198:LEU:CD1	2.18	0.73
3:J:759:ILE:HG12	3:J:771:GLN:HG2	1.69	0.73
7:5:22:DA:H1'	7:5:23:DT:OP1	1.87	0.73
2:C:56:VAL:HG21	2:C:468:LEU:HD13	1.70	0.73
3:D:160:LEU:HD22	3:D:164:GLN:HB3	1.70	0.73
3:D:770:LEU:O	3:D:774:ILE:HG13	1.87	0.73
3:D:796:LEU:HD11	3:D:800:LEU:HD11	1.68	0.73
3:J:1266:ILE:HD12	3:J:1278:GLU:HB3	1.70	0.73
5:L:386:LEU:O	5:L:390:ILE:HG13	1.87	0.73
2:O:807:TRP:O	2:O:809:GLY:N	2.20	0.73
2:O:960:LEU:HB3	2:O:1025:PHE:CE1	2.23	0.73
3:P:646:ILE:HD11	3:P:765:GLU:HG3	1.67	0.73
5:F:554:ARG:NH2	6:1:13:DC:OP2	2.22	0.73
6:4:47:DC:H2'	6:4:48:DA:C8	2.23	0.73
3:D:109:SER:HB2	3:D:296:LYS:HE2	1.70	0.73
5:F:110:LEU:H	5:F:110:LEU:HD12	1.53	0.73
3:D:79:LYS:HZ3	5:F:569:THR:CB	2.01	0.73
1:H:158:ARG:HD2	1:H:172:LEU:HD11	1.69	0.73
2:I:178:PRO:HA	2:I:397:LEU:HD23	1.70	0.73
2:O:1061:GLN:O	2:O:1076:ILE:HD12	1.86	0.73
3:P:796:LEU:HA	3:P:799:ARG:HE	1.53	0.73
5:L:455:HIS:HE1	6:4:31:DT:C6	2.06	0.73
7:5:45:DG:C2	7:5:46:DT:C2	2.77	0.73
3:D:281:ARG:HH22	5:F:441:ARG:CZ	2.01	0.73
2:I:292:ILE:HG21	2:I:322:LEU:HD21	1.68	0.73
2:I:232:ILE:HD12	2:I:326:SER:HB3	1.70	0.73
2:I:498:ILE:HG22	2:I:499:SER:N	2.04	0.73
3:J:56:LEU:O	3:J:250:ARG:NH2	2.18	0.73
1:M:32:GLU:HG2	1:M:33:ARG:N	2.03	0.73
1:N:156:SER:O	1:N:159:ILE:HG22	1.87	0.73
3:P:371:LYS:O	3:P:374:LEU:HD23	1.88	0.73
3:P:801:VAL:HG22	3:P:920:ALA:CB	2.14	0.73
3:P:930:LEU:HD13	3:P:1134:ILE:HG13	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:856:ASN:ND2	5:R:613:ASP:O	2.20	0.73
2:C:1281:TYR:CZ	3:D:431:ARG:HG3	2.24	0.73
3:D:181:GLY:C	3:D:185:ILE:HD11	2.09	0.73
3:J:1099:TYR:HE2	3:J:1195:GLN:NE2	1.86	0.73
2:O:979:LEU:HD11	2:O:1000:LEU:HD21	1.71	0.73
2:O:1087:TYR:O	2:O:1212:LEU:HD23	1.88	0.73
5:R:604:SER:OG	5:R:607:LEU:HD12	1.88	0.73
3:D:620:PHE:O	3:D:624:ILE:CG1	2.35	0.73
3:D:261:ALA:HA	5:F:505:ILE:O	1.87	0.73
2:I:68:LEU:HD22	2:I:479:LEU:HD21	1.69	0.73
3:J:475:GLU:N	3:J:475:GLU:OE1	2.18	0.73
2:O:827:ARG:O	2:O:828:PHE:HB2	1.88	0.73
2:O:851:THR:HG22	2:O:852:ALA:H	1.53	0.73
1:N:44:ARG:NH1	3:P:538:ARG:HD2	2.00	0.73
4:Q:30:MET:HE2	4:Q:46:THR:HG22	1.68	0.73
3:D:1346:GLY:H	3:D:1349:GLU:CD	1.91	0.73
3:D:824:PRO:HD3	3:D:878:ASP:O	1.89	0.73
5:F:457:ILE:HA	5:F:460:ILE:CD1	2.14	0.73
5:F:493:LYS:HE3	5:F:497:VAL:HG23	1.69	0.73
1:G:234:LEU:HG	1:H:13:LEU:HD23	1.70	0.73
1:G:79:LEU:CA	1:G:82:LEU:HD12	2.15	0.73
2:I:5:TYR:HA	2:I:8:LYS:HD2	1.69	0.73
2:I:886:LYS:CD	2:I:916:SER:HB2	2.18	0.73
3:J:112:ALA:HA	3:J:238:ILE:CD1	2.18	0.73
3:J:966:VAL:HG11	3:J:1030:GLU:HA	1.69	0.73
3:P:1274:PHE:O	3:P:1275:LEU:HB2	1.87	0.73
7:5:25:DA:H1'	7:5:26:DT:C5'	2.15	0.73
2:C:1278:LEU:HD21	2:C:1286:THR:CB	2.18	0.73
2:C:255:ILE:CD1	2:C:285:ILE:HD13	2.18	0.73
3:D:519:ASN:O	3:D:523:GLU:HB2	1.88	0.73
3:D:563:LEU:HD22	3:D:586:GLY:HA2	1.69	0.73
3:D:673:VAL:CG1	3:D:678:ARG:HB2	2.18	0.73
5:L:407:GLU:HG2	5:L:442:SER:HB3	1.71	0.73
2:O:1086:PRO:O	2:O:1094:VAL:CG2	2.34	0.73
3:P:771:GLN:O	3:P:774:ILE:HB	1.88	0.73
3:D:464:ASP:CG	8:3:15:G:O2'	2.28	0.73
3:D:147:ILE:HD11	3:D:179:LYS:N	2.04	0.73
3:D:478:LEU:HB3	4:E:20:VAL:CG1	2.19	0.73
3:J:518:VAL:HG12	3:J:519:ASN:OD1	1.88	0.73
3:J:72:CYS:SG	3:J:87:LYS:HD3	2.29	0.73
5:L:451:ARG:NH1	5:L:453:PRO:CG	2.48	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:519:ASN:OD1	2:O:522:SER:HB2	1.89	0.73
2:O:975:ILE:HG23	2:O:1011:LEU:HD11	1.69	0.73
3:P:265:LEU:HD21	3:P:326:SER:HA	1.70	0.73
3:P:425:ARG:CD	3:P:457:TYR:HB3	2.17	0.73
2:O:371:ARG:CB	5:R:99:ARG:NH2	2.52	0.73
1:A:86:LYS:HE3	1:A:173:VAL:CG1	2.18	0.73
2:C:720:ARG:HD2	2:C:736:VAL:HG21	1.70	0.73
3:D:1302:TYR:CD1	3:D:1302:TYR:N	2.56	0.73
3:D:843:VAL:HG12	3:D:883:ARG:HB3	1.70	0.73
5:F:91:ILE:HG22	5:F:91:ILE:O	1.88	0.73
2:I:444:ASP:O	2:I:450:ASN:ND2	2.22	0.73
3:J:128:LEU:CD1	3:J:189:LEU:HD21	2.13	0.73
3:J:584:PRO:HD3	3:J:620:PHE:CE1	2.22	0.73
3:J:826:ILE:HG23	3:J:826:ILE:O	1.87	0.73
5:L:216:LEU:O	5:L:220:LYS:CG	2.36	0.73
1:M:76:GLU:HB3	1:M:81:ILE:HG13	1.70	0.73
2:O:564:PRO:HB3	8:9:13:GTP:PA	2.29	0.73
3:P:421:VAL:HG23	3:P:439:PRO:HG2	1.71	0.73
3:P:826:ILE:HG22	3:P:826:ILE:O	1.89	0.73
1:A:69:SER:O	1:A:78:ILE:HG13	1.89	0.72
1:B:67:GLU:HB3	1:B:171:LEU:HD22	1.71	0.72
2:C:1151:LEU:HD22	2:C:1198:LEU:CD1	2.16	0.72
2:C:1334:GLY:C	2:C:1335:ILE:HD12	2.09	0.72
2:C:448:LEU:CD1	2:C:553:THR:O	2.28	0.72
2:C:750:ILE:HG12	2:C:750:ILE:O	1.89	0.72
2:C:90:VAL:CG1	2:C:91:THR:N	2.52	0.72
2:C:1275:VAL:HG21	3:D:343:LEU:O	1.89	0.72
2:I:165:HIS:HB2	2:I:168:GLY:HA2	1.71	0.72
3:J:805:GLN:HB3	3:J:1347:LEU:HD12	1.71	0.72
4:K:60:ASN:CB	4:K:63:ILE:HD12	2.19	0.72
5:R:414:LYS:HD3	5:R:434:TRP:CZ3	2.24	0.72
2:C:1199:LEU:HD22	2:C:1204:LEU:CD1	2.19	0.72
2:C:519:ASN:HD22	2:C:796:LEU:HD22	1.53	0.72
3:D:795:TYR:O	3:D:799:ARG:HG3	1.89	0.72
3:D:814:CYS:HB2	3:D:889:ASP:HB3	1.69	0.72
2:I:165:HIS:HB3	2:I:168:GLY:H	1.54	0.72
2:I:319:LEU:CA	2:I:322:LEU:HD12	2.18	0.72
2:I:91:THR:HG23	2:I:137:VAL:O	1.88	0.72
2:I:1284:ALA:HA	3:J:1357:ILE:HD11	1.72	0.72
2:O:848:GLU:HG2	2:O:888:THR:HG23	1.71	0.72
5:R:517:SER:CB	5:R:521:ASP:HB2	2.19	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:448:LEU:HD11	2:C:553:THR:C	2.09	0.72
4:E:39:VAL:HG13	4:E:40:PRO:CG	2.20	0.72
2:I:39:ILE:HG22	2:I:39:ILE:O	1.87	0.72
3:J:662:ALA:HA	3:J:665:GLN:OE1	1.89	0.72
1:M:8:PHE:CE2	1:N:223:ILE:HG12	2.22	0.72
2:O:1068:GLY:HA2	2:O:1232:MET:HE2	1.71	0.72
2:O:811:ASN:ND2	2:O:1099:ASN:HA	2.04	0.72
2:O:886:LYS:N	2:O:917:SER:OG	2.19	0.72
3:P:261:ALA:HB2	5:R:519:LEU:CD2	2.19	0.72
3:P:449:LEU:HD12	3:P:450:HIS:H	1.54	0.72
1:A:57:THR:HG21	1:A:158:ARG:NH2	2.04	0.72
3:D:185:ILE:O	3:D:189:LEU:HG	1.89	0.72
1:G:81:ILE:O	1:G:85:LEU:HG	1.89	0.72
1:G:232:VAL:CG1	1:H:218:ARG:HG2	2.15	0.72
5:L:478:PRO:HB2	5:L:483:LEU:HD22	1.70	0.72
5:L:572:THR:O	5:L:576:VAL:HG23	1.90	0.72
5:R:583:THR:HG21	5:R:586:ARG:HB2	1.67	0.72
2:C:1327:LEU:HD23	2:C:1337:ILE:CD1	2.12	0.72
2:C:144:VAL:HG23	2:C:515:MET:HB2	1.70	0.72
2:C:550:VAL:CG2	3:D:780:ARG:HD2	2.19	0.72
2:C:952:GLN:OE1	2:C:1036:ILE:HG23	1.90	0.72
3:J:26:SER:HB3	3:J:29:MET:HB2	1.71	0.72
2:O:16:GLY:O	2:O:1156:ARG:HB3	1.88	0.72
2:O:56:VAL:HG13	2:O:472:GLU:OE1	1.89	0.72
2:C:1327:LEU:CA	2:C:1337:ILE:HD13	2.18	0.72
3:D:147:ILE:CG1	3:D:178:ALA:HA	2.19	0.72
3:D:880:VAL:HG13	3:D:881:LYS:H	1.54	0.72
4:E:53:GLU:HB3	4:E:59:ILE:CG1	2.19	0.72
5:F:271:ASN:O	5:F:275:VAL:HG23	1.89	0.72
2:I:183:TRP:CH2	6:4:48:DA:N6	2.56	0.72
2:I:745:GLU:HG3	2:I:746:ALA:O	1.89	0.72
2:I:757:THR:O	2:I:833:ILE:HD12	1.90	0.72
4:K:15:ASN:HB3	4:K:18:ASP:HB2	1.70	0.72
5:L:84:LEU:CD1	5:L:107:THR:HG21	2.20	0.72
1:N:102:LEU:HD11	1:N:114:ASP:CB	2.18	0.72
1:N:18:GLN:OE1	1:N:213:PRO:HG2	1.88	0.72
4:Q:26:ARG:O	4:Q:30:MET:HG3	1.88	0.72
2:C:75:LEU:CD2	2:C:94:ALA:HB1	2.20	0.72
3:D:432:LEU:HD11	3:D:499:ILE:CD1	2.18	0.72
2:I:310:ILE:HD13	2:I:324:LYS:HB3	1.71	0.72
2:I:335:THR:HG22	2:I:336:LEU:N	2.04	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1229:VAL:O	3:J:1233:ILE:HG13	1.90	0.72
3:J:1270:GLY:H	3:J:1274:PHE:HD2	1.34	0.72
3:J:421:VAL:HG12	3:J:422:LEU:N	2.05	0.72
1:N:32:GLU:HB3	1:N:35:PHE:HD2	1.55	0.72
2:O:406:ASN:ND2	2:O:413:GLU:OE1	2.23	0.72
2:O:431:LYS:O	2:O:435:ILE:HG13	1.89	0.72
2:O:376:PRO:HD3	5:R:87:VAL:HG22	1.70	0.72
1:A:224:LEU:CD1	1:A:224:LEU:O	2.38	0.72
3:D:116:PHE:O	3:D:124:ILE:CG1	2.38	0.72
3:D:339:ARG:HH12	3:D:798:ARG:CZ	2.03	0.72
5:F:580:PHE:O	5:F:581:ASP:HB2	1.89	0.72
2:I:799:ASN:O	2:I:827:ARG:NH2	2.22	0.72
1:N:56:VAL:HA	1:N:146:VAL:HG22	1.72	0.72
3:P:419:HIS:O	3:P:439:PRO:HD3	1.90	0.72
2:C:1327:LEU:CD2	2:C:1337:ILE:HD11	2.11	0.72
3:D:1194:ARG:HH11	3:D:1211:SER:HB3	1.54	0.72
3:D:885:VAL:HG12	3:D:886:VAL:HG22	1.72	0.72
5:F:295:CYS:O	5:F:296:LYS:CB	2.37	0.72
1:H:9:LEU:HD21	1:H:30:PRO:HG2	1.72	0.72
1:M:13:LEU:HD13	1:M:28:LEU:CD2	2.19	0.72
3:P:844:THR:HG22	3:P:882:VAL:HB	1.71	0.72
5:R:220:LYS:HE3	5:R:259:PHE:CE1	2.25	0.72
5:R:119:ILE:HG23	5:R:375:ALA:HB1	1.70	0.72
2:C:878:THR:HG22	2:C:879:GLY:N	2.05	0.72
3:D:822:MET:HG2	3:D:838:ARG:NH2	2.03	0.72
2:I:1271:GLY:O	2:I:1275:VAL:HG23	1.90	0.72
2:I:851:THR:HG22	2:I:853:ASP:H	1.55	0.72
2:O:255:ILE:HD12	2:O:263:VAL:HB	1.72	0.72
3:P:499:ILE:HG22	3:P:500:ILE:N	2.03	0.72
3:D:1282:TYR:C	3:D:1285:VAL:HG12	2.06	0.71
3:D:133:ARG:O	3:D:136:GLU:HB2	1.89	0.71
2:I:1159:VAL:O	2:I:1159:VAL:HG12	1.89	0.71
2:I:539:THR:HG22	2:I:540:ARG:H	1.54	0.71
2:I:886:LYS:HD2	2:I:916:SER:HB2	1.71	0.71
3:J:1287:ILE:CG2	3:J:1288:ALA:N	2.52	0.71
1:M:224:LEU:HD21	1:N:228:LEU:HG	1.71	0.71
2:O:467:GLY:O	2:O:471:VAL:HG23	1.90	0.71
1:B:61:ILE:CD1	1:B:64:VAL:HG11	2.18	0.71
2:C:28:LEU:HD13	2:C:527:LYS:HD2	1.72	0.71
3:D:115:TRP:CE3	3:D:1333:THR:HG23	2.25	0.71
3:D:435:GLN:NE2	3:D:486:SER:HA	2.05	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:351:GLY:C	3:D:468:VAL:HG23	2.09	0.71
3:D:840:LEU:CD1	3:D:869:CYS:SG	2.78	0.71
5:F:452:ILE:CG2	5:F:457:ILE:CD1	2.67	0.71
2:I:120:GLN:HG2	2:I:489:PRO:CG	2.21	0.71
2:I:525:THR:CG2	2:I:687:ARG:HD3	2.20	0.71
3:J:423:LEU:HD23	3:J:423:LEU:N	2.04	0.71
2:O:726:TYR:N	2:O:733:VAL:HG22	2.05	0.71
3:P:587:LEU:CD2	3:P:612:LEU:HD21	2.20	0.71
3:P:749:LYS:HB3	3:P:750:PRO:CD	2.19	0.71
4:Q:46:THR:HA	4:Q:49:ILE:HD12	1.72	0.71
2:O:564:PRO:CB	8:9:13:GTP:O2A	2.39	0.71
2:C:196:VAL:CG2	2:C:206:ALA:HA	2.20	0.71
1:H:166:ARG:HH12	1:H:172:LEU:HD22	1.53	0.71
2:I:1278:LEU:HD11	2:I:1286:THR:HB	1.71	0.71
2:I:255:ILE:HG23	2:I:285:ILE:HD13	1.72	0.71
5:L:376:LYS:O	5:L:380:VAL:HG23	1.91	0.71
1:A:46:ILE:CD1	1:A:224:LEU:HB2	2.21	0.71
1:B:74:VAL:O	1:B:74:VAL:HG12	1.90	0.71
2:C:177:ILE:HG23	2:C:183:TRP:HE1	1.55	0.71
3:D:452:LEU:CD1	3:D:625:MET:SD	2.78	0.71
1:G:11:PRO:O	1:H:230:ALA:CB	2.37	0.71
3:J:811:GLU:O	3:J:895:CYS:HA	1.90	0.71
3:J:826:ILE:CG2	3:J:994:SER:HB3	2.20	0.71
5:L:491:GLU:O	5:L:494:ILE:HB	1.89	0.71
2:O:292:ILE:CG2	2:O:322:LEU:HD11	2.17	0.71
2:O:178:PRO:HG3	2:O:395:TYR:CE1	2.25	0.71
3:P:275:ARG:HG2	3:P:278:ARG:HH22	1.55	0.71
6:7:34:DG:N2	7:8:29:DC:O2	2.24	0.71
3:D:115:TRP:HE3	3:D:1333:THR:CG2	2.03	0.71
5:F:583:THR:CG2	5:F:587:ILE:CD1	2.68	0.71
2:I:295:LYS:O	2:I:317:LEU:HD12	1.90	0.71
2:O:162:GLY:O	2:O:163:LYS:HB3	1.89	0.71
2:O:564:PRO:HB3	8:9:13:GTP:O2A	1.91	0.71
1:A:38:THR:CG2	1:B:42:ALA:CA	2.63	0.71
3:D:453:VAL:CG1	3:D:500:ILE:HD13	2.21	0.71
3:D:609:TYR:HA	3:D:617:THR:HG21	1.71	0.71
1:G:24:ALA:HB3	1:G:213:PRO:HB3	1.70	0.71
2:I:164:THR:O	2:I:165:HIS:HB2	1.90	0.71
2:I:34:SER:O	2:I:37:LYS:HB2	1.91	0.71
3:J:1138:LEU:HB3	3:J:1139:PRO:HD3	1.73	0.71
3:J:771:GLN:CA	3:J:774:ILE:HD12	2.14	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:62:PHE:CB	3:J:98:ARG:HG2	2.13	0.71
2:O:150:HIS:CE1	2:O:454:ARG:HG3	2.25	0.71
2:O:720:ARG:HD2	2:O:736:VAL:HG21	1.73	0.71
3:P:1251:LYS:O	3:P:1255:VAL:HG23	1.90	0.71
5:R:402:LEU:HA	5:R:405:ILE:HD12	1.71	0.71
6:7:26:DT:H2"	6:7:27:DC:OP2	1.91	0.71
2:C:1253:LEU:HD12	5:F:525:ASP:HB2	1.73	0.71
3:D:1090:ILE:HG23	3:D:1091:PRO:HD2	1.72	0.71
5:F:461:ASN:N	5:F:461:ASN:OD1	2.21	0.71
5:F:489:MET:HB3	5:F:490:PRO:HD2	1.73	0.71
5:F:84:LEU:CG	5:F:107:THR:CG2	2.69	0.71
2:I:686:GLN:NE2	2:I:1069:ARG:CG	2.53	0.71
3:P:580:TRP:CZ3	3:P:583:VAL:HG11	2.26	0.71
3:P:974:VAL:HG11	3:P:1028:ILE:HG21	1.73	0.71
2:C:13:LYS:HE3	2:C:1149:TYR:O	1.90	0.71
1:G:142:MET:SD	1:G:144:ILE:HD11	2.31	0.71
1:H:158:ARG:NH2	1:H:177:TYR:OH	2.23	0.71
3:J:111:THR:OG1	3:J:300:GLN:OE1	2.08	0.71
1:N:13:LEU:HD12	1:N:28:LEU:HD23	1.72	0.71
2:O:295:LYS:HD2	2:O:335:THR:HG23	1.72	0.71
2:O:533:LEU:HD21	2:O:571:LEU:HD13	1.73	0.71
2:O:90:VAL:CG1	2:O:91:THR:H	2.02	0.71
3:P:210:SER:HB3	3:P:213:LYS:HD2	1.70	0.71
5:R:110:LEU:HD21	5:R:385:ARG:HD2	1.72	0.71
2:I:183:TRP:HZ3	6:4:47:DC:H42	1.37	0.71
3:D:490:ILE:N	3:D:490:ILE:HD12	2.05	0.71
3:D:875:ASN:O	3:D:876:SER:HB2	1.90	0.71
3:J:135:ILE:HG22	3:J:139:LEU:HD11	1.73	0.71
3:J:190:LYS:HD2	3:J:235:GLU:OE2	1.91	0.71
3:J:245:LEU:HD12	3:J:246:PRO:HD2	1.71	0.71
2:O:1237:HIS:ND1	2:O:1242:LYS:NZ	2.37	0.71
2:C:255:ILE:HG12	2:C:285:ILE:HG21	1.73	0.71
2:C:706:ARG:O	2:C:710:VAL:HG23	1.91	0.71
3:D:611:ILE:HG22	3:D:612:LEU:HD23	1.73	0.71
3:D:840:LEU:HD12	3:D:869:CYS:SG	2.31	0.71
3:D:842:ARG:O	3:D:864:LEU:HG	1.91	0.71
3:J:422:LEU:C	3:J:423:LEU:HD23	2.11	0.71
3:J:584:PRO:HD2	3:J:620:PHE:CZ	2.25	0.71
3:J:909:ILE:HD11	3:J:913:GLU:CB	2.14	0.71
5:L:297:MET:HB2	5:L:326:TRP:CZ3	2.25	0.71
2:O:73:TYR:CB	2:O:98:VAL:HG22	2.21	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1130:GLY:O	3:P:1131:THR:HG23	1.91	0.71
1:A:40:GLY:O	1:A:43:LEU:HB2	1.91	0.70
2:C:797:GLY:CA	2:C:1233:LEU:CD2	2.68	0.70
5:F:289:LYS:HE3	5:F:290:LEU:HG	1.73	0.70
2:I:169:LYS:HD3	3:J:1067:ARG:O	1.90	0.70
3:J:946:ALA:O	3:J:948:SER:N	2.23	0.70
1:N:193:GLU:O	1:N:194:GLN:HB2	1.91	0.70
1:M:38:THR:CG2	1:N:42:ALA:HA	2.14	0.70
2:O:1056:VAL:CG1	2:O:1058:ARG:HG3	2.21	0.70
2:O:1184:THR:O	2:O:1184:THR:HG23	1.90	0.70
2:O:1227:VAL:HG12	2:O:1228:GLY:N	2.05	0.70
2:O:167:SER:HA	3:P:1064:SER:HB2	1.73	0.70
3:P:1138:LEU:HD23	3:P:1139:PRO:HG3	1.72	0.70
5:R:607:LEU:HA	5:R:610:PHE:CD2	2.26	0.70
5:F:132:CYS:SG	5:F:257:LYS:CD	2.78	0.70
5:F:514:ASP:O	5:F:516:ASP:HB2	1.91	0.70
1:G:104:LYS:HG2	1:G:110:VAL:HG22	1.72	0.70
2:I:822:VAL:HG11	2:I:1060:ILE:HD13	1.71	0.70
3:J:115:TRP:CZ3	3:J:1329:THR:HA	2.24	0.70
3:J:423:LEU:HB3	3:J:466:MET:HE2	1.74	0.70
2:O:333:ILE:CG2	2:O:334:GLU:H	2.02	0.70
3:P:644:MET:O	3:P:764:ARG:NH1	2.24	0.70
3:P:930:LEU:HD11	3:P:1244:GLN:HG3	1.73	0.70
3:P:976:THR:HG21	3:P:1030:GLU:HG2	1.71	0.70
5:R:503:GLU:CB	5:R:504:PRO:HD2	2.21	0.70
6:7:28:DA:N6	7:8:34:DG:C6	2.59	0.70
2:C:1077:SER:HA	3:D:356:THR:HG21	1.72	0.70
3:D:898:CYS:SG	10:D:1502:ZN:ZN	1.80	0.70
5:F:458:GLU:O	5:F:462:LYS:HG3	1.90	0.70
2:I:94:ALA:HB2	2:I:129:LEU:HD11	1.73	0.70
2:I:950:GLU:HA	2:I:953:LEU:HD12	1.73	0.70
3:J:1226:VAL:HG21	3:J:1304:ARG:NH2	2.05	0.70
3:J:971:GLY:O	3:J:972:LYS:HG3	1.90	0.70
1:N:67:GLU:O	1:N:78:ILE:HB	1.91	0.70
3:P:1103:GLY:O	3:P:1104:LYS:HB2	1.91	0.70
3:P:116:PHE:CD2	3:P:237:MET:SD	2.85	0.70
3:P:997:VAL:HG13	3:P:1001:ALA:HB3	1.72	0.70
2:C:1110:GLY:HA2	2:C:1113:LEU:HD12	1.72	0.70
3:D:1356:LEU:HD13	3:D:1365:TYR:HD1	1.56	0.70
1:H:190:ALA:N	1:H:199:ASP:HA	2.02	0.70
1:H:28:LEU:HD11	1:H:31:LEU:HG	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1304:MET:O	2:I:1308:ILE:HG13	1.91	0.70
2:I:319:LEU:HA	2:I:322:LEU:CD1	2.18	0.70
1:M:192:VAL:HG21	1:M:198:LEU:HD12	1.73	0.70
2:O:1142:ARG:NH1	2:O:1169:VAL:HG21	2.06	0.70
2:O:1227:VAL:HG12	2:O:1228:GLY:H	1.55	0.70
2:O:201:ARG:HB2	2:O:369:MET:HE2	1.73	0.70
2:O:122:VAL:HG21	2:O:493:ILE:HD12	1.74	0.70
3:P:1146:GLU:CG	3:P:1309:ILE:HD12	2.21	0.70
5:R:545:HIS:HA	5:R:548:LEU:HD12	1.72	0.70
1:B:61:ILE:CD1	1:B:171:LEU:CD1	2.69	0.70
1:B:221:ALA:HA	1:B:224:LEU:HD23	1.72	0.70
2:C:213:LEU:O	2:C:214:ASN:CB	2.39	0.70
3:D:322:ARG:NE	5:F:510:PRO:HD3	2.06	0.70
3:D:325:LYS:HG3	3:D:329:ASP:HB3	1.70	0.70
5:F:583:THR:HG21	5:F:586:ARG:HB3	1.72	0.70
3:J:495:ASN:ND2	3:J:497:GLU:HB2	2.06	0.70
3:J:609:TYR:HA	3:J:617:THR:HG21	1.72	0.70
3:J:909:ILE:HG12	3:J:910:ASN:H	1.55	0.70
1:M:45:ARG:HH12	2:O:1216:ARG:CA	2.03	0.70
3:P:643:ASP:O	3:P:722:ILE:HD12	1.91	0.70
3:P:739:GLN:HE21	3:P:744:ARG:HG3	1.56	0.70
3:P:259:ARG:NH2	5:R:502:LYS:HG2	2.05	0.70
2:C:196:VAL:HG23	2:C:206:ALA:HA	1.72	0.70
3:D:614:LEU:O	3:D:617:THR:OG1	2.09	0.70
3:J:115:TRP:CE3	3:J:1333:THR:HG23	2.26	0.70
3:J:421:VAL:HG13	3:J:470:VAL:HA	1.72	0.70
2:O:185:ASP:C	2:O:186:PHE:HD2	1.95	0.70
3:P:373:ALA:HA	3:P:376:LEU:CD1	2.17	0.70
2:C:533:LEU:HD23	2:C:538:LEU:O	1.92	0.70
3:D:339:ARG:NH2	3:D:1325:PHE:O	2.24	0.70
3:D:872:LEU:HD23	3:D:875:ASN:HD22	1.57	0.70
3:J:1029:THR:CG2	3:J:1121:LEU:CD1	2.69	0.70
1:M:8:PHE:CZ	1:N:223:ILE:HG12	2.26	0.70
2:O:741:MET:SD	2:O:747:GLY:HA3	2.32	0.70
3:P:1280:VAL:HG12	3:P:1281:GLU:H	1.55	0.70
3:P:363:LEU:HD23	3:P:618:VAL:HG13	1.72	0.70
5:R:295:CYS:O	5:R:296:LYS:HB2	1.91	0.70
2:C:1287:LEU:HG	2:C:1288:GLN:N	1.98	0.70
3:J:1167:LYS:O	3:J:1174:ARG:HB2	1.91	0.70
3:J:68:TYR:HA	3:J:92:VAL:HG13	1.72	0.70
1:B:166:ARG:HB2	1:B:166:ARG:CZ	2.22	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:75:LEU:HD21	2:I:127:ILE:HD13	1.73	0.70
2:I:1314:GLN:HA	4:K:28:ARG:NH2	2.06	0.70
2:I:838:CYS:O	2:I:1049:ILE:HG23	1.92	0.70
2:I:90:VAL:HG12	2:I:91:THR:H	1.57	0.70
2:I:988:LYS:NZ	2:I:992:LEU:HD12	2.06	0.70
1:M:11:PRO:O	1:N:231:PHE:CZ	2.45	0.70
2:O:1049:ILE:HG22	2:O:1050:VAL:N	2.07	0.70
2:O:16:GLY:O	2:O:1156:ARG:CB	2.39	0.70
2:O:402:ARG:HG2	2:O:416:GLY:CA	2.17	0.70
2:O:639:LYS:O	2:O:639:LYS:CG	2.33	0.70
2:O:374:GLU:OE1	5:R:99:ARG:HD3	1.91	0.70
2:C:805:MET:O	2:C:811:ASN:ND2	2.25	0.70
3:D:244:VAL:HG13	3:D:269:TYR:CE1	2.27	0.70
3:D:363:LEU:CD2	3:D:487:THR:HG22	2.22	0.70
3:D:349:TYR:O	3:D:470:VAL:CG2	2.37	0.70
3:D:615:LYS:HE2	4:E:4:VAL:HB	1.73	0.70
5:F:416:VAL:HB	5:F:417:ASP:OD1	1.91	0.70
2:I:369:MET:HG3	2:I:370:MET:N	2.07	0.70
2:I:149:LEU:CD1	2:I:451:ARG:HB3	2.21	0.70
3:J:196:GLN:O	3:J:200:GLN:HG3	1.91	0.70
5:L:583:THR:CG2	5:L:586:ARG:HB3	2.21	0.70
2:O:237:LEU:HD11	2:O:289:VAL:HG22	1.74	0.70
3:P:1348:LYS:HA	3:P:1351:VAL:HG21	1.72	0.70
3:P:328:ALA:HA	3:P:331:ILE:HD12	1.73	0.70
3:P:749:LYS:HG2	3:P:755:ILE:HG13	1.74	0.70
5:R:520:GLY:HA2	5:R:523:ILE:CD1	2.22	0.70
2:C:1330:ILE:HB	2:C:1337:ILE:HG21	1.73	0.69
3:D:1101:LEU:HD22	3:D:1122:ALA:CB	2.22	0.69
3:D:909:ILE:HD11	3:D:913:GLU:CB	2.21	0.69
3:D:79:LYS:HZ3	5:F:569:THR:HG22	1.57	0.69
2:I:655:VAL:HG12	2:I:656:SER:N	2.05	0.69
3:J:1031:VAL:HG11	3:J:1090:ILE:HA	1.73	0.69
3:J:1145:PHE:O	3:J:1309:ILE:HG13	1.92	0.69
3:J:886:VAL:HG22	3:J:1258:ARG:HB2	1.74	0.69
5:L:518:HIS:O	5:L:520:GLY:N	2.24	0.69
4:Q:27:ALA:HA	4:Q:30:MET:SD	2.32	0.69
6:4:59:DG:O6	7:5:3:DG:O6	2.10	0.69
2:C:1289:GLU:OE2	3:D:472:LEU:HB2	1.92	0.69
2:I:1035:LYS:C	2:I:1036:ILE:HG13	2.12	0.69
2:I:1054:LEU:CD2	2:I:1055:ALA:N	2.55	0.69
1:M:41:ASN:HD21	2:O:1217:THR:C	1.95	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:163:LYS:HG2	2:O:164:THR:H	1.53	0.69
2:O:347:ILE:HD11	2:O:433:ILE:CD1	2.21	0.69
2:O:82:VAL:O	2:O:86:GLN:HG3	1.92	0.69
3:P:398:LYS:O	3:P:402:GLU:HG3	1.91	0.69
3:P:771:GLN:HA	3:P:774:ILE:HD12	1.74	0.69
5:R:390:ILE:HD13	5:R:432:THR:HG23	1.73	0.69
2:C:975:ILE:O	2:C:979:LEU:CG	2.37	0.69
3:D:1155:ILE:O	3:D:1156:LEU:CD2	2.40	0.69
2:I:184:LEU:HD11	2:I:389:PHE:CD2	2.26	0.69
1:N:100:LEU:HD11	1:N:121:VAL:HG11	1.74	0.69
1:N:64:VAL:HG11	1:N:78:ILE:HD11	1.74	0.69
2:O:76:GLY:O	2:O:94:ALA:HB1	1.91	0.69
3:P:1173:ARG:O	3:P:1190:ILE:HB	1.92	0.69
3:P:1344:LEU:CA	3:P:1349:GLU:OE1	2.37	0.69
4:Q:59:ILE:HG23	4:Q:64:LEU:HD21	1.74	0.69
5:R:572:THR:O	5:R:576:VAL:HG23	1.92	0.69
3:D:433:GLY:O	3:D:457:TYR:CE1	2.45	0.69
3:D:858:VAL:HG11	3:D:872:LEU:HD11	1.73	0.69
2:I:678:ARG:CZ	2:I:1106:ARG:HB3	2.21	0.69
3:J:1148:ARG:HG2	6:4:55:DC:OP1	1.92	0.69
2:O:448:LEU:CD1	2:O:557:ARG:CD	2.65	0.69
2:O:528:ARG:NH2	2:O:575:LEU:HD23	2.06	0.69
2:O:805:MET:HB2	2:O:806:PRO:HD2	1.72	0.69
2:I:1065:LYS:NZ	8:6:15:G:OP1	2.24	0.69
6:7:58:DG:H2"	6:7:59:DG:OP2	1.91	0.69
1:A:88:LEU:HD13	1:A:128:HIS:CG	2.28	0.69
3:D:111:THR:HG23	3:D:300:GLN:HE22	1.57	0.69
2:I:191:LYS:HA	3:J:1069:ALA:HB3	1.75	0.69
3:J:601:ILE:O	3:J:605:LEU:CG	2.40	0.69
2:I:1107:MET:HG2	3:J:740:LEU:HD21	1.73	0.69
5:L:406:GLN:O	5:L:410:ILE:HG13	1.92	0.69
3:P:930:LEU:HD13	3:P:1134:ILE:CG1	2.22	0.69
3:P:644:MET:HE1	3:P:764:ARG:HB2	1.73	0.69
3:P:822:MET:CE	3:P:838:ARG:HE	2.05	0.69
2:C:846:GLY:HA3	2:C:889:PRO:HG2	1.73	0.69
3:D:1348:LYS:HA	3:D:1351:VAL:HG21	1.74	0.69
3:D:909:ILE:HD11	3:D:913:GLU:HB2	1.72	0.69
5:F:587:ILE:HA	5:F:590:ILE:HD12	1.74	0.69
2:I:436:ARG:O	2:I:436:ARG:HD2	1.92	0.69
3:J:1029:THR:HG22	3:J:1099:TYR:CD1	2.27	0.69
1:M:67:GLU:O	1:M:78:ILE:HB	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1262:ARG:HH22	3:P:1316:THR:HB	1.57	0.69
3:P:527:LEU:HD22	3:P:532:GLU:OE2	1.92	0.69
3:P:536:LEU:HD22	3:P:541:LEU:O	1.93	0.69
1:A:57:THR:HG23	1:A:158:ARG:NH2	2.07	0.69
2:C:149:LEU:HD11	2:C:451:ARG:CB	2.20	0.69
3:D:786:THR:CG2	3:D:787:ALA:N	2.55	0.69
3:D:281:ARG:CZ	5:F:441:ARG:HH22	2.06	0.69
1:H:28:LEU:HD13	1:H:28:LEU:O	1.93	0.69
2:I:599:VAL:HG21	2:I:623:LEU:CD1	2.22	0.69
3:J:115:TRP:CZ2	3:J:1329:THR:CG2	2.70	0.69
3:J:722:ILE:O	3:J:725:MET:HB2	1.93	0.69
4:K:5:THR:HG22	4:K:7:GLN:H	1.58	0.69
5:L:102:MET:HE3	5:L:105:MET:HE2	1.75	0.69
1:M:35:PHE:O	1:M:39:LEU:CD2	2.39	0.69
1:N:11:PRO:HG3	1:N:31:LEU:HD21	1.74	0.69
2:O:102:LEU:HD21	2:O:104:ILE:HD11	1.73	0.69
3:P:734:ALA:O	3:P:737:ILE:HB	1.93	0.69
1:A:228:LEU:CA	1:A:231:PHE:CE2	2.61	0.69
3:J:1310:THR:O	3:J:1314:LEU:HG	1.91	0.69
3:J:76:LYS:O	3:J:80:HIS:ND1	2.22	0.69
3:J:922:SER:O	3:J:926:PRO:HD3	1.92	0.69
1:M:43:LEU:CD1	1:M:203:ILE:HD11	2.20	0.69
1:A:45:ARG:HH12	2:C:1216:ARG:HA	1.58	0.69
2:C:408:SER:O	2:C:431:LYS:NZ	2.21	0.69
2:C:448:LEU:HG	2:C:553:THR:HB	1.75	0.69
2:C:871:VAL:CG2	2:C:883:LEU:O	2.41	0.69
3:D:497:GLU:CB	3:D:498:PRO:HD2	2.23	0.69
2:I:525:THR:HG21	2:I:687:ARG:HD3	1.74	0.69
2:I:65:ASN:HD21	2:I:484:LEU:HD11	1.55	0.69
3:J:1274:PHE:O	3:J:1278:GLU:HG3	1.93	0.69
3:J:332:LYS:HZ2	3:J:1329:THR:HG23	1.57	0.69
2:O:431:LYS:O	2:O:434:ASP:HB2	1.93	0.69
2:O:495:ALA:HA	2:O:498:ILE:HD12	1.75	0.69
2:O:867:GLU:OE2	2:O:943:LYS:HG2	1.91	0.69
2:O:976:ARG:O	2:O:980:VAL:HG23	1.93	0.69
3:P:421:VAL:CG2	3:P:439:PRO:CG	2.69	0.69
2:C:205:PRO:HB2	2:C:207:THR:HG22	1.73	0.69
3:D:478:LEU:HB3	4:E:20:VAL:HG22	1.75	0.69
5:F:333:VAL:HG22	5:F:336:GLU:HB2	1.75	0.69
1:G:115:ILE:HD12	1:G:123:ILE:HD13	1.75	0.69
1:H:100:LEU:HD13	1:H:115:ILE:CG2	2.19	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:151:GLY:HA2	1:H:178:SER:OG	1.93	0.69
2:I:1287:LEU:HD22	3:J:1357:ILE:HG12	1.74	0.69
2:I:1332:SER:O	3:J:243:PRO:HG2	1.93	0.69
2:I:885:GLY:HA2	2:I:917:SER:OG	1.93	0.69
3:J:1368:ASP:HA	3:J:1371:ARG:HE	1.57	0.69
3:J:749:LYS:CE	3:J:753:SER:HB2	2.22	0.69
3:P:128:LEU:HD13	3:P:188:LEU:HD23	1.75	0.69
3:P:271:ARG:HH12	3:P:316:ILE:HG23	1.57	0.69
3:P:382:TYR:HD1	3:P:397:ALA:HB1	1.57	0.69
2:C:804:PHE:O	3:D:638:SER:HB3	1.92	0.69
3:D:471:PRO:HB2	3:D:476:ALA:HB1	1.75	0.69
3:D:474:LEU:HD12	4:E:28:ARG:CG	2.21	0.69
4:E:54:ILE:HG13	4:E:59:ILE:HB	1.74	0.69
5:F:583:THR:CG2	5:F:586:ARG:CB	2.66	0.69
2:I:807:TRP:O	2:I:809:GLY:N	2.26	0.69
3:P:148:GLU:HA	3:P:155:GLU:O	1.93	0.69
1:A:109:PRO:HG3	1:A:132:HIS:CD2	2.28	0.68
1:A:140:ILE:HG13	1:A:141:SER:N	2.08	0.68
1:A:42:ALA:CA	1:B:38:THR:CG2	2.68	0.68
2:C:297:VAL:HG13	2:C:317:LEU:CD2	2.23	0.68
3:D:470:VAL:CB	3:D:472:LEU:CD2	2.66	0.68
5:F:451:ARG:HG3	5:F:451:ARG:O	1.92	0.68
1:G:67:GLU:O	1:G:78:ILE:HB	1.92	0.68
1:H:14:VAL:CG2	1:H:29:GLU:HG2	2.23	0.68
2:I:165:HIS:NE2	2:I:190:PRO:HB3	2.07	0.68
2:I:851:THR:CG2	2:I:852:ALA:N	2.56	0.68
3:J:490:ILE:HG23	3:J:500:ILE:HD12	1.73	0.68
3:P:147:ILE:O	3:P:148:GLU:HB2	1.92	0.68
2:C:530:ILE:N	2:C:530:ILE:HD12	2.08	0.68
2:C:761:GLN:O	2:C:762:ASN:HB2	1.91	0.68
3:D:378:LYS:O	3:D:382:TYR:CD2	2.46	0.68
2:O:448:LEU:HD11	2:O:557:ARG:HD3	1.75	0.68
3:P:1145:PHE:HB3	3:P:1309:ILE:HD11	1.75	0.68
1:A:56:VAL:HG13	1:A:144:ILE:CG2	2.23	0.68
3:D:1159:ILE:HG22	3:D:1160:SER:H	1.58	0.68
3:D:201:LEU:HB3	3:D:221:ILE:HD11	1.75	0.68
3:D:331:ILE:HG22	3:D:338:PHE:HE2	1.57	0.68
1:H:65:LEU:HD22	1:H:168:ILE:HG22	1.76	0.68
2:I:1125:GLY:O	2:I:1128:ILE:HB	1.93	0.68
2:I:883:LEU:HD21	2:I:920:VAL:HG22	1.76	0.68
3:J:835:LEU:HD12	3:J:839:VAL:HG21	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:392:LYS:HA	5:L:395:THR:HG23	1.76	0.68
2:O:1289:GLU:HA	2:O:1293:VAL:CG2	2.24	0.68
3:P:34:SER:CB	3:P:104:HIS:HB3	2.23	0.68
3:P:362:ARG:HB2	3:P:365:GLN:CD	2.12	0.68
3:P:707:ILE:HG22	3:P:708:ASN:H	1.59	0.68
1:B:47:LEU:HD13	1:B:183:ILE:CD1	2.24	0.68
2:C:519:ASN:ND2	2:C:521:LEU:HD23	2.09	0.68
3:D:162:GLU:HB3	3:D:163:GLU:OE1	1.94	0.68
3:D:575:GLY:O	3:D:578:ILE:HB	1.93	0.68
3:D:644:MET:O	3:D:764:ARG:CZ	2.42	0.68
3:J:428:THR:HG21	3:J:921:GLN:HE22	1.58	0.68
3:J:491:LEU:HD23	3:J:498:PRO:HA	1.75	0.68
3:J:506:VAL:O	3:J:510:LEU:HG	1.94	0.68
1:N:43:LEU:O	1:N:47:LEU:HG	1.93	0.68
2:O:448:LEU:HD12	2:O:557:ARG:HD2	1.75	0.68
3:P:416:ILE:HD12	3:P:441:LEU:HG	1.74	0.68
3:P:366:CYS:SG	3:P:439:PRO:HA	2.33	0.68
3:P:796:LEU:HG	3:P:797:THR:N	2.06	0.68
5:R:98:VAL:HG21	6:7:44:DG:N2	2.08	0.68
2:C:542:ARG:NH2	6:1:49:DG:N7	2.42	0.68
3:D:182:ALA:HA	3:D:185:ILE:CD1	2.23	0.68
3:D:665:GLN:O	3:D:668:PHE:HB3	1.92	0.68
3:D:786:THR:HG23	3:D:787:ALA:N	2.09	0.68
2:O:558:VAL:HG11	2:O:573:ASN:HB3	1.76	0.68
2:O:805:MET:O	2:O:811:ASN:ND2	2.26	0.68
2:O:830:THR:OG1	2:O:832:HIS:CD2	2.47	0.68
3:P:749:LYS:HD2	3:P:753:SER:OG	1.93	0.68
5:R:533:ASP:OD1	5:R:533:ASP:N	2.25	0.68
1:B:193:GLU:O	1:B:194:GLN:HB2	1.93	0.68
1:B:47:LEU:O	1:B:51:MET:HB2	1.93	0.68
2:C:714:VAL:HG13	2:C:786:GLY:HA3	1.75	0.68
3:D:237:MET:O	3:D:238:ILE:HD13	1.93	0.68
3:J:406:ALA:HA	3:J:409:TRP:CD1	2.27	0.68
3:J:725:MET:HE3	3:J:732:GLY:H	1.58	0.68
1:M:13:LEU:HD13	1:M:28:LEU:HD23	1.75	0.68
2:O:163:LYS:CG	2:O:164:THR:H	2.02	0.68
3:D:509:GLY:O	3:D:513:MET:HG3	1.93	0.68
3:D:886:VAL:HG13	3:D:1258:ARG:CG	2.22	0.68
5:F:452:ILE:HG21	5:F:457:ILE:HD13	1.76	0.68
2:I:1324:ASN:HA	2:I:1327:LEU:HD12	1.76	0.68
3:J:112:ALA:HA	3:J:238:ILE:HD13	1.76	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:747:MET:HA	3:J:941:ALA:HB3	1.73	0.68
2:O:575:LEU:HD11	2:O:579:ALA:HB3	1.76	0.68
3:P:1162:ILE:HG13	3:P:1180:VAL:HG12	1.75	0.68
3:P:1319:PHE:HD2	3:P:1340:LYS:HD2	1.59	0.68
3:P:350:SER:HB3	3:P:469:HIS:ND1	2.09	0.68
3:P:530:PRO:HB2	3:P:581:MET:CG	2.23	0.68
3:P:697:MET:HE3	3:P:737:ILE:CG2	2.24	0.68
5:R:437:GLN:OE1	7:8:27:DA:N6	2.26	0.68
3:D:425:ARG:HH22	8:3:16:U:H4'	1.58	0.68
1:A:61:ILE:HD13	1:A:64:VAL:HG11	1.75	0.68
2:C:824:GLN:HE22	2:C:1082:ILE:HD11	1.58	0.68
3:D:885:VAL:HG12	3:D:886:VAL:CG2	2.24	0.68
1:G:225:ALA:CB	1:H:228:LEU:HD13	2.21	0.68
2:I:1077:SER:HA	3:J:356:THR:HG21	1.74	0.68
2:I:369:MET:HG3	2:I:370:MET:H	1.59	0.68
2:I:851:THR:HG22	2:I:852:ALA:N	2.09	0.68
2:I:896:THR:HG22	2:I:899:GLU:OE1	1.94	0.68
1:N:74:VAL:HG22	1:N:133:LEU:HD21	1.75	0.68
2:O:371:ARG:HA	5:R:99:ARG:NH2	2.07	0.68
2:O:729:ALA:O	2:O:730:SER:HB3	1.94	0.68
3:P:536:LEU:HD22	3:P:541:LEU:C	2.14	0.68
3:P:614:LEU:O	3:P:617:THR:OG1	2.11	0.68
2:C:1209:GLN:HE21	3:D:640:GLY:HA3	1.57	0.68
2:C:807:TRP:O	2:C:809:GLY:N	2.25	0.68
3:D:811:GLU:O	3:D:895:CYS:HA	1.94	0.68
1:G:16:ILE:HG21	1:G:214:GLU:HG3	1.75	0.68
2:I:700:VAL:HG21	2:I:1114:GLU:HG3	1.76	0.68
2:I:197:ARG:HB3	2:I:200:ARG:HA	1.75	0.68
3:J:128:LEU:HD21	3:J:189:LEU:HD23	1.76	0.68
1:N:179:PRO:O	1:N:208:ASN:HB2	1.92	0.68
3:P:805:GLN:OE1	3:P:1347:LEU:HB2	1.94	0.68
5:F:461:ASN:HA	7:2:26:DT:C5	2.28	0.68
2:C:1113:LEU:HD23	3:D:641:ILE:HD13	1.76	0.68
3:D:133:ARG:NH2	5:F:91:ILE:O	2.24	0.68
3:D:58:CYS:SG	3:D:60:ARG:N	2.66	0.68
2:I:176:ILE:O	2:I:176:ILE:HG22	1.93	0.68
2:I:65:ASN:ND2	2:I:484:LEU:HD11	2.09	0.68
2:I:870:ILE:HB	2:I:944:ARG:HD3	1.75	0.68
2:O:1231:TYR:O	2:O:1232:MET:HE2	1.94	0.68
3:P:1163:VAL:HG13	3:P:1176:VAL:O	1.94	0.68
1:A:180:VAL:CA	1:A:207:THR:HG22	2.12	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:50:SER:O	1:A:52:PRO:HD3	1.93	0.67
1:A:57:THR:HG21	1:A:158:ARG:HH22	1.58	0.67
1:B:100:LEU:HD13	1:B:115:ILE:HG23	1.75	0.67
1:B:182:ARG:HB3	1:B:206:GLU:HB3	1.76	0.67
2:C:112:GLY:C	2:C:114:VAL:H	1.97	0.67
2:C:1273:MET:O	3:D:428:THR:HG21	1.93	0.67
3:D:263:SER:HA	5:F:507:MET:HB3	1.76	0.67
1:G:35:PHE:O	1:G:39:LEU:HG	1.94	0.67
2:I:344:GLY:HA3	2:I:346:TYR:CE2	2.28	0.67
3:J:68:TYR:HA	3:J:92:VAL:CG1	2.23	0.67
2:O:1212:LEU:HB3	2:O:1221:PHE:HD2	1.57	0.67
2:O:759:SER:HA	2:O:765:ILE:HD11	1.76	0.67
2:O:764:CYS:HB3	2:O:831:ILE:HB	1.75	0.67
5:R:493:LYS:O	5:R:497:VAL:HG23	1.94	0.67
5:R:98:VAL:O	5:R:102:MET:HG2	1.94	0.67
2:C:1289:GLU:HA	2:C:1293:VAL:CG2	2.25	0.67
2:C:1289:GLU:HA	2:C:1293:VAL:HG22	1.76	0.67
3:D:131:PRO:O	3:D:135:ILE:CG1	2.42	0.67
3:D:181:GLY:C	3:D:185:ILE:CD1	2.63	0.67
3:D:264:ASP:OD1	3:D:264:ASP:N	2.25	0.67
2:I:196:VAL:CG2	2:I:206:ALA:HA	2.24	0.67
1:N:215:GLU:O	1:N:219:ARG:HG3	1.94	0.67
2:O:830:THR:HG23	2:O:1234:LYS:NZ	2.09	0.67
2:O:412:GLU:N	2:O:412:GLU:CD	2.45	0.67
2:O:1077:SER:CB	3:P:357:VAL:HG23	2.24	0.67
3:P:854:ALA:O	3:P:855:ASP:HB2	1.93	0.67
1:A:88:LEU:HD13	1:A:128:HIS:CD2	2.29	0.67
2:C:1184:THR:HG23	2:C:1184:THR:O	1.92	0.67
3:D:1350:ASN:HA	3:D:1353:VAL:CG2	2.25	0.67
3:D:819:GLY:N	3:D:881:LYS:HE2	2.09	0.67
3:D:162:GLU:OE2	5:F:84:LEU:HD13	1.95	0.67
1:G:185:TYR:CD2	1:G:185:TYR:O	2.47	0.67
1:M:40:GLY:CA	1:M:43:LEU:HD12	2.21	0.67
3:P:378:LYS:HE2	3:P:382:TYR:OH	1.95	0.67
3:P:822:MET:HE2	3:P:838:ARG:HE	1.59	0.67
1:B:133:LEU:HD22	1:B:138:ALA:HB1	1.75	0.67
2:C:1107:MET:HE2	3:D:740:LEU:CD2	2.23	0.67
3:D:1109:LEU:HD13	3:D:1115:ILE:HG22	1.76	0.67
3:D:783:LEU:HD12	3:D:783:LEU:N	2.09	0.67
2:I:145:ILE:HD11	2:I:506:PHE:HD1	1.60	0.67
3:J:1095:MET:SD	3:J:1173:ARG:NH2	2.68	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:443:GLU:HG3	3:J:444:GLY:N	2.07	0.67
3:J:814:CYS:SG	3:J:883:ARG:NH2	2.67	0.67
4:K:69:ARG:O	4:K:73:GLN:HG3	1.94	0.67
5:L:119:ILE:HG23	5:L:122:ARG:NH2	2.09	0.67
3:P:188:LEU:HG	3:P:188:LEU:O	1.93	0.67
3:P:325:LYS:HG3	3:P:329:ASP:HB3	1.77	0.67
4:Q:27:ALA:HB1	4:Q:46:THR:HB	1.77	0.67
3:D:1264:ALA:HB1	3:D:1303:SER:O	1.93	0.67
5:F:166:VAL:HG12	5:F:168:PRO:HD3	1.75	0.67
2:I:805:MET:HE3	2:I:806:PRO:HD2	1.75	0.67
2:I:886:LYS:H	2:I:917:SER:HG	1.42	0.67
2:I:848:GLU:HG2	2:I:888:THR:HG23	1.74	0.67
3:J:421:VAL:CG1	3:J:469:HIS:O	2.42	0.67
1:M:11:PRO:HD2	1:N:227:GLN:HA	1.77	0.67
2:O:402:ARG:CG	2:O:416:GLY:HA3	2.20	0.67
2:O:657:THR:O	2:O:660:VAL:HG23	1.94	0.67
2:O:90:VAL:HG12	2:O:91:THR:H	1.60	0.67
6:4:45:DT:H3'	6:4:45:DT:C6	2.30	0.67
2:C:1273:MET:SD	3:D:428:THR:O	2.53	0.67
2:C:297:VAL:HG23	2:C:314:ASN:H	1.59	0.67
2:C:496:LYS:CB	2:C:497:PRO:HD3	2.24	0.67
3:D:325:LYS:HG3	3:D:329:ASP:CB	2.24	0.67
3:D:607:THR:O	3:D:611:ILE:HG13	1.95	0.67
5:F:119:ILE:HG13	5:F:122:ARG:HH22	1.59	0.67
1:G:49:SER:HB3	1:H:33:ARG:HH12	1.59	0.67
3:J:105:ILE:CD1	3:J:244:VAL:HG21	2.25	0.67
3:J:397:ALA:O	3:J:401:VAL:HG23	1.93	0.67
3:J:872:LEU:O	3:J:877:VAL:HG23	1.94	0.67
1:M:228:LEU:HD22	1:N:221:ALA:HB1	1.77	0.67
2:O:936:ARG:HG2	2:O:937:ASP:H	1.60	0.67
2:O:9:LYS:HE2	2:O:1171:ARG:CD	2.24	0.67
3:P:1226:VAL:O	3:P:1229:VAL:HG12	1.94	0.67
3:P:131:PRO:O	3:P:135:ILE:HG13	1.94	0.67
3:P:212:THR:HA	3:P:215:LYS:HD2	1.76	0.67
5:R:291:CYS:O	5:R:295:CYS:HB2	1.94	0.67
5:R:387:VAL:HG11	5:R:409:ASN:OD1	1.95	0.67
5:R:587:ILE:HG23	5:R:590:ILE:HD12	1.75	0.67
2:C:623:LEU:HD23	2:C:628:HIS:O	1.95	0.67
2:I:106:GLU:HG2	2:I:115:LYS:CB	2.20	0.67
2:I:702:THR:HG22	2:I:1184:THR:O	1.95	0.67
3:J:1173:ARG:O	3:J:1190:ILE:HB	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:332:LYS:HZ2	3:J:1329:THR:CG2	2.06	0.67
5:L:84:LEU:CD1	5:L:107:THR:CG2	2.72	0.67
1:M:8:PHE:CE1	1:N:223:ILE:HG23	2.29	0.67
2:O:804:PHE:O	2:O:805:MET:HB3	1.95	0.67
2:C:1268:GLN:HE22	3:D:351:GLY:N	1.91	0.67
3:D:1167:LYS:HB2	3:D:1174:ARG:NH1	2.09	0.67
3:D:1287:ILE:HG22	3:D:1288:ALA:CA	2.25	0.67
3:D:521:LYS:NZ	3:D:541:LEU:HD23	2.10	0.67
3:D:563:LEU:CD2	3:D:586:GLY:HA2	2.23	0.67
3:J:832:LYS:HZ2	3:J:1242:ARG:HB3	1.58	0.67
3:J:835:LEU:HG	3:J:836:ARG:N	2.10	0.67
5:L:145:LEU:HD13	5:L:225:ARG:NH1	2.09	0.67
1:M:214:GLU:HA	1:M:217:ILE:CD1	2.23	0.67
2:O:557:ARG:HG3	2:O:557:ARG:HH11	1.60	0.67
2:O:592:ARG:NE	2:O:600:THR:O	2.27	0.67
3:P:1155:ILE:O	3:P:1210:ILE:HD12	1.93	0.67
2:O:1065:LYS:HE3	3:P:463:GLY:HA3	1.77	0.67
3:P:519:ASN:HB3	3:P:523:GLU:CD	2.15	0.67
3:P:747:MET:SD	3:P:747:MET:N	2.68	0.67
5:R:112:THR:OG1	5:R:113:ARG:HG2	1.95	0.67
2:C:1151:LEU:HD23	2:C:1198:LEU:HD13	1.75	0.67
2:C:871:VAL:HG23	2:C:883:LEU:O	1.95	0.67
3:D:1327:GLU:O	3:D:1331:VAL:CG2	2.35	0.67
3:D:1367:GLN:HA	3:D:1370:MET:HG3	1.77	0.67
2:I:165:HIS:CB	2:I:168:GLY:N	2.58	0.67
3:J:147:ILE:HG13	3:J:178:ALA:HA	1.77	0.67
3:J:511:TYR:HD1	3:J:596:LEU:O	1.78	0.67
3:J:886:VAL:HG11	3:J:1261:LEU:HD13	1.74	0.67
5:L:132:CYS:SG	5:L:257:LYS:HE2	2.34	0.67
5:L:476:ARG:CG	5:L:477:GLU:H	2.07	0.67
2:O:811:ASN:ND2	2:O:1099:ASN:CA	2.57	0.67
2:O:1161:LEU:O	2:O:1163:THR:N	2.28	0.67
2:O:871:VAL:HG23	2:O:883:LEU:O	1.95	0.67
3:P:275:ARG:HG2	3:P:278:ARG:NH2	2.10	0.67
3:P:796:LEU:HD11	3:P:800:LEU:HD11	1.77	0.67
6:1:50:DT:C6	6:1:50:DT:H3'	2.28	0.67
3:D:1263:LYS:HG2	3:D:1281:GLU:CA	2.22	0.67
5:F:503:GLU:HB3	5:F:504:PRO:HD2	1.77	0.67
1:G:78:ILE:HG22	1:G:82:LEU:HD11	1.77	0.67
1:H:86:LYS:HE3	1:H:173:VAL:HG12	1.77	0.67
1:H:47:LEU:HD13	1:H:183:ILE:HD12	1.76	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1111:GLN:HB2	2:I:1230:MET:HE3	1.76	0.67
2:I:165:HIS:HB2	2:I:168:GLY:CA	2.25	0.67
2:I:805:MET:HE2	2:I:806:PRO:HD2	1.76	0.67
2:I:1286:THR:OG1	3:J:479:GLU:OE2	2.12	0.67
5:R:399:LEU:O	5:R:400:GLN:CB	2.42	0.67
3:D:501:VAL:HG13	3:D:502:PRO:CD	2.24	0.66
3:D:536:LEU:HD13	3:D:542:ALA:HB2	1.77	0.66
2:I:1124:ILE:HD11	2:I:1198:LEU:HG	1.77	0.66
2:I:1257:GLN:NE2	3:J:345:LYS:HB3	2.10	0.66
3:J:1106:ILE:HD12	3:J:1125:PRO:HG2	1.77	0.66
3:J:744:ARG:CZ	3:J:940:ALA:HB2	2.25	0.66
1:M:66:HIS:CE1	2:O:929:ILE:HG12	2.29	0.66
2:O:558:VAL:O	2:O:560:PRO:HD3	1.95	0.66
3:P:909:ILE:HG12	3:P:910:ASN:N	2.11	0.66
3:D:836:ARG:CB	3:D:873:GLU:OE2	2.42	0.66
5:F:333:VAL:HG13	5:F:333:VAL:O	1.96	0.66
2:I:1098:LEU:HD23	2:I:1099:ASN:N	2.10	0.66
5:L:412:LEU:O	5:L:416:VAL:HG23	1.96	0.66
5:L:451:ARG:O	5:L:451:ARG:HG3	1.95	0.66
2:O:71:VAL:HG22	2:O:101:ARG:HE	1.59	0.66
2:O:1061:GLN:HB2	2:O:1062:PRO:HD2	1.77	0.66
2:O:150:HIS:HE1	2:O:454:ARG:HG3	1.60	0.66
2:O:540:ARG:HD3	2:O:567:PRO:HB2	1.75	0.66
3:P:418:GLU:O	3:P:481:ARG:NH2	2.28	0.66
3:P:45:ASN:HB3	3:P:48:THR:O	1.96	0.66
3:P:575:GLY:O	3:P:578:ILE:HB	1.95	0.66
6:4:53:DG:H2"	6:4:54:DA:OP2	1.95	0.66
5:R:434:TRP:CZ2	6:7:36:DT:C7	2.78	0.66
1:A:45:ARG:NH1	2:C:1215:GLY:O	2.27	0.66
2:C:519:ASN:HD21	2:C:521:LEU:HD23	1.58	0.66
2:C:902:LEU:HA	2:C:905:ILE:HD12	1.77	0.66
2:C:170:VAL:CG2	3:D:1065:ALA:HB1	2.26	0.66
3:D:306:LEU:O	3:D:326:SER:HB2	1.94	0.66
3:D:779:ALA:O	3:D:783:LEU:HD13	1.94	0.66
4:E:39:VAL:CB	4:E:40:PRO:HD2	2.24	0.66
2:I:1124:ILE:HD13	2:I:1201:LEU:HD23	1.77	0.66
2:I:165:HIS:HB2	2:I:168:GLY:N	2.11	0.66
2:I:714:VAL:HG13	2:I:786:GLY:HA3	1.76	0.66
3:J:614:LEU:O	3:J:617:THR:OG1	2.13	0.66
2:O:230:PHE:CE1	2:O:292:ILE:HD11	2.30	0.66
2:O:528:ARG:CZ	2:O:575:LEU:HD23	2.24	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1215:GLU:HB3	3:P:1220:ILE:HD11	1.77	0.66
3:P:701:LEU:HG	3:P:723:TYR:HB2	1.78	0.66
5:R:128:ASN:ND2	5:R:257:LYS:HE2	2.10	0.66
5:R:511:ILE:HG13	5:R:517:SER:OG	1.95	0.66
6:4:50:DT:H3'	6:4:50:DT:C6	2.30	0.66
2:C:1142:ARG:HG3	2:C:1161:LEU:HD21	1.78	0.66
2:C:56:VAL:CG1	2:C:59:ILE:HD11	2.24	0.66
3:D:1318:SER:HA	3:D:1342:ASP:OD2	1.95	0.66
2:I:161:LYS:CA	2:I:161:LYS:HE2	2.24	0.66
3:J:869:CYS:HA	3:J:872:LEU:CD1	2.24	0.66
2:O:1017:GLN:O	2:O:1021:LEU:HG	1.95	0.66
3:P:161:THR:H	3:P:164:GLN:CD	1.98	0.66
1:A:134:THR:HG22	2:C:773:LEU:HD22	1.77	0.66
2:C:700:VAL:O	2:C:1069:ARG:NH2	2.28	0.66
3:D:205:LEU:HD21	3:D:214:ARG:CG	2.24	0.66
3:D:267:ASP:O	3:D:271:ARG:HG3	1.95	0.66
3:D:583:VAL:HG13	3:D:587:LEU:HD12	1.78	0.66
5:F:169:ASN:HB2	5:F:260:ARG:HB2	1.77	0.66
5:F:452:ILE:HB	5:F:457:ILE:HD11	1.77	0.66
1:G:44:ARG:HA	1:G:183:ILE:HD13	1.75	0.66
3:J:1332:LEU:HD23	3:J:1332:LEU:N	2.09	0.66
2:I:1326:LEU:HD22	3:J:342:LEU:HD11	1.76	0.66
3:J:79:LYS:HD2	5:L:569:THR:HG21	1.76	0.66
1:N:35:PHE:O	1:N:39:LEU:CD1	2.43	0.66
2:O:1128:ILE:HG22	2:O:1132:LEU:HD11	1.77	0.66
3:P:1103:GLY:O	3:P:1104:LYS:CB	2.44	0.66
5:R:452:ILE:HG22	5:R:456:MET:HG2	1.76	0.66
7:8:18:DT:H2'	7:8:19:DA:C5'	2.24	0.66
1:A:221:ALA:HB1	1:B:228:LEU:CD2	2.25	0.66
2:C:1006:GLU:HB2	2:C:1007:LYS:NZ	2.11	0.66
2:C:19:PRO:CB	2:C:1156:ARG:HD2	2.25	0.66
3:D:1148:ARG:O	3:D:1150:PRO:HD3	1.96	0.66
3:D:431:ARG:NH2	3:D:904:ALA:HB1	2.09	0.66
3:D:433:GLY:O	3:D:457:TYR:HE1	1.78	0.66
2:C:555:TYR:OH	3:D:769:VAL:CG1	2.43	0.66
1:H:100:LEU:CD1	1:H:115:ILE:HG21	2.19	0.66
2:I:220:ILE:HG22	2:I:221:LEU:N	2.11	0.66
2:O:1017:GLN:HE21	2:O:1021:LEU:HG	1.61	0.66
2:O:1123:GLY:O	2:O:1127:LYS:HG2	1.93	0.66
2:O:201:ARG:HB2	2:O:369:MET:HE1	1.78	0.66
3:P:527:LEU:CD1	3:P:532:GLU:HG2	2.19	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:697:MET:HE1	3:P:737:ILE:CG2	2.24	0.66
1:A:44:ARG:HA	1:A:47:LEU:HD13	1.77	0.66
1:B:220:ALA:HA	1:B:223:ILE:HD12	1.78	0.66
2:C:521:LEU:HD21	2:C:686:GLN:C	2.15	0.66
2:C:886:LYS:N	2:C:917:SER:OG	2.25	0.66
3:D:162:GLU:HB3	3:D:163:GLU:CD	2.16	0.66
1:G:47:LEU:HD12	1:G:183:ILE:CD1	2.16	0.66
2:I:800:MET:SD	2:I:1096:ILE:HD11	2.36	0.66
2:I:1289:GLU:OE2	3:J:473:THR:N	2.25	0.66
5:L:100:MET:HG2	5:L:103:ARG:HH22	1.60	0.66
5:L:511:ILE:HD13	5:L:519:LEU:HA	1.77	0.66
5:L:591:GLU:O	5:L:595:LEU:HG	1.94	0.66
3:P:742:GLY:O	3:P:762:ASN:HB3	1.96	0.66
5:R:590:ILE:HG12	5:R:593:LYS:NZ	2.10	0.66
2:C:42:ASP:OD1	2:C:43:PRO:HD2	1.95	0.66
2:I:797:GLY:CA	2:I:1233:LEU:HD23	2.26	0.66
2:I:391:SER:HB3	2:I:394:ARG:HB2	1.78	0.66
2:I:759:SER:HB3	2:I:765:ILE:HG13	1.78	0.66
3:J:288:PRO:O	3:J:292:VAL:HG23	1.96	0.66
3:J:786:THR:CG2	3:J:787:ALA:N	2.59	0.66
1:M:38:THR:CG2	1:N:42:ALA:CA	2.73	0.66
5:R:91:ILE:HD11	5:R:103:ARG:HH12	1.60	0.66
6:4:47:DC:C4	6:4:48:DA:C6	2.83	0.66
1:A:102:LEU:HD21	1:A:110:VAL:CG1	2.26	0.66
1:A:179:PRO:O	1:A:208:ASN:ND2	2.29	0.66
2:C:237:LEU:CG	2:C:289:VAL:HG22	2.21	0.66
3:D:281:ARG:HH22	5:F:441:ARG:HH22	0.69	0.66
5:F:583:THR:HG21	5:F:587:ILE:HD13	1.77	0.66
3:J:1342:ASP:CG	3:J:1344:LEU:HG	2.16	0.66
3:J:923:ILE:HD11	3:J:1252:HIS:HB3	1.78	0.66
1:M:39:LEU:O	1:M:43:LEU:CG	2.23	0.66
2:O:164:THR:O	2:O:165:HIS:HB2	1.96	0.66
2:O:830:THR:HG1	2:O:832:HIS:CD2	2.14	0.66
5:R:434:TRP:CE2	6:7:36:DT:C7	2.79	0.66
6:7:50:DT:O5'	6:7:51:DC:C5	2.49	0.66
2:C:256:GLU:HG2	2:C:259:GLY:O	1.96	0.66
2:C:253:PHE:CD1	2:C:288:PRO:CD	2.77	0.66
3:D:574:VAL:O	3:D:578:ILE:HG13	1.95	0.66
2:I:1284:ALA:HB1	3:J:1356:LEU:HD23	1.78	0.66
3:J:662:ALA:HA	3:J:665:GLN:CD	2.16	0.66
1:M:13:LEU:HD11	1:M:26:VAL:CG1	2.25	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:99:LYS:HG3	2:O:121:GLU:CG	2.26	0.66
2:O:149:LEU:CD2	2:O:451:ARG:HE	2.09	0.66
3:P:306:LEU:O	3:P:326:SER:HB2	1.96	0.66
3:P:557:LYS:HE2	3:P:561:GLY:HA2	1.77	0.66
1:A:232:VAL:HG22	1:B:221:ALA:CB	2.26	0.65
2:C:176:ILE:HD12	2:C:184:LEU:HB2	1.77	0.65
3:D:1120:THR:HB	3:D:1123:ARG:NH1	2.11	0.65
2:I:496:LYS:CB	2:I:497:PRO:HD3	2.24	0.65
5:L:145:LEU:HD22	5:L:225:ARG:NH1	2.10	0.65
5:L:476:ARG:CG	5:L:477:GLU:N	2.58	0.65
1:M:44:ARG:O	1:M:47:LEU:HB2	1.96	0.65
2:O:1294:LYS:HD3	3:P:347:VAL:HG11	1.78	0.65
2:O:1333:LEU:HD11	3:P:331:ILE:HD11	1.79	0.65
2:O:312:ALA:HB3	2:O:315:MET:HB2	1.76	0.65
2:O:3:TYR:O	2:O:8:LYS:HE3	1.96	0.65
5:R:333:VAL:HG13	5:R:333:VAL:O	1.95	0.65
2:C:1312:ASN:O	2:C:1313:HIS:HB2	1.95	0.65
3:D:1328:THR:O	3:D:1332:LEU:CG	2.39	0.65
3:D:382:TYR:CE1	3:D:398:LYS:HA	2.31	0.65
5:F:323:ASN:O	5:F:324:LYS:HB2	1.96	0.65
2:I:302:ILE:HA	2:I:309:LEU:HA	1.78	0.65
3:J:127:LEU:HD11	3:J:227:PHE:CE2	2.30	0.65
3:J:156:ARG:HB3	3:J:157:GLN:HG3	1.78	0.65
5:L:412:LEU:HD22	5:L:435:ILE:HD11	1.78	0.65
5:L:597:LYS:C	5:L:598:LEU:HD23	2.16	0.65
1:M:219:ARG:O	1:M:223:ILE:HG13	1.96	0.65
2:O:340:ASP:O	2:O:342:ASP:N	2.29	0.65
2:O:642:SER:O	2:O:643:SER:HB3	1.94	0.65
4:Q:38:LEU:HD12	4:Q:53:GLU:OE2	1.96	0.65
3:D:502:PRO:HB3	3:D:506:VAL:CG1	2.25	0.65
5:F:84:LEU:HG	5:F:107:THR:HG22	1.76	0.65
2:I:1048:LYS:O	2:I:1049:ILE:HG12	1.97	0.65
1:M:35:PHE:HE2	1:N:50:SER:HG	1.43	0.65
3:P:30:ILE:HG12	3:P:33:TRP:HZ3	1.60	0.65
3:P:563:LEU:HD21	3:P:586:GLY:HA2	1.78	0.65
3:P:259:ARG:HH22	5:R:502:LYS:CG	2.09	0.65
1:A:79:LEU:O	1:A:83:LEU:HD23	1.97	0.65
1:B:9:LEU:HD12	1:B:10:LYS:N	2.10	0.65
3:D:68:TYR:CD1	3:D:93:THR:HA	2.32	0.65
5:F:555:GLU:O	5:F:559:LEU:HG	1.97	0.65
1:H:42:ALA:O	1:H:46:ILE:HD12	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:686:GLN:CD	2:I:1069:ARG:HG2	2.17	0.65
2:I:743:PRO:HG3	2:I:974:ARG:NH2	2.11	0.65
5:L:261:LEU:HD13	5:L:269:LEU:HD12	1.76	0.65
5:L:261:LEU:HD13	5:L:269:LEU:CD1	2.26	0.65
5:L:599:ARG:O	5:L:601:PRO:HD3	1.97	0.65
3:P:79:LYS:HG3	5:R:569:THR:CG2	2.26	0.65
5:R:353:LEU:HB3	5:R:358:VAL:HG22	1.76	0.65
6:4:28:DA:C2	7:5:36:DG:N2	2.64	0.65
2:C:1288:GLN:HG2	2:C:1315:MET:SD	2.37	0.65
2:C:854:ILE:HD12	2:C:862:LEU:HD23	1.77	0.65
3:D:1323:ALA:HB2	3:D:1332:LEU:HD21	1.78	0.65
2:C:1326:LEU:HD22	3:D:342:LEU:CD1	2.27	0.65
5:F:137:TYR:HE2	5:F:139:GLU:HB2	1.62	0.65
1:H:75:GLN:HG2	1:H:134:THR:CG2	2.26	0.65
2:I:1146:GLN:OE1	2:I:1161:LEU:HB3	1.96	0.65
2:I:634:VAL:C	2:I:644:LEU:HD22	2.17	0.65
3:J:1226:VAL:O	3:J:1229:VAL:CG1	2.44	0.65
3:J:160:LEU:HD23	3:J:164:GLN:CB	2.27	0.65
3:J:84:ILE:HG22	3:J:84:ILE:O	1.96	0.65
5:L:297:MET:HB2	5:L:326:TRP:HZ3	1.61	0.65
1:N:179:PRO:O	1:N:208:ASN:HB3	1.96	0.65
2:O:634:VAL:HG12	2:O:635:THR:N	2.12	0.65
3:P:169:LEU:HD12	3:P:173:GLY:HA2	1.78	0.65
1:A:203:ILE:HG22	1:A:205:MET:HE2	1.78	0.65
2:C:204:LEU:HB3	2:C:205:PRO:CD	2.27	0.65
2:C:1289:GLU:OE1	3:D:472:LEU:CB	2.44	0.65
3:D:514:THR:O	3:D:576:ARG:NE	2.30	0.65
3:D:609:TYR:C	3:D:609:TYR:CD1	2.70	0.65
2:I:1199:LEU:HD22	2:I:1204:LEU:HB2	1.78	0.65
3:J:139:LEU:HD21	3:J:185:ILE:CD1	2.25	0.65
5:L:84:LEU:HD11	5:L:107:THR:HG23	1.77	0.65
1:N:162:GLU:OE2	1:N:166:ARG:CZ	2.45	0.65
2:O:429:MET:O	2:O:432:LEU:HD23	1.97	0.65
3:P:248:ASP:O	3:P:251:PRO:HG3	1.97	0.65
1:A:47:LEU:HD11	1:A:183:ILE:CD1	2.26	0.65
3:D:343:LEU:HD11	3:D:1348:LYS:HD3	1.77	0.65
3:D:749:LYS:HB3	3:D:750:PRO:HD2	1.78	0.65
5:F:98:VAL:HG22	5:F:402:LEU:HD21	1.78	0.65
1:G:232:VAL:HG13	1:H:218:ARG:CG	2.20	0.65
2:I:15:PHE:HE2	2:I:1182:ILE:HG23	1.61	0.65
2:I:1269:ARG:HG3	3:J:345:LYS:O	1.95	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:387:ASN:O	2:I:391:SER:HB2	1.96	0.65
2:I:489:PRO:O	2:I:493:ILE:CD1	2.44	0.65
2:I:559:CYS:CB	2:I:662:SER:HB3	2.26	0.65
2:I:729:ALA:O	2:I:730:SER:HB3	1.97	0.65
2:I:1077:SER:HA	3:J:356:THR:CG2	2.26	0.65
3:J:840:LEU:HD12	3:J:864:LEU:O	1.97	0.65
4:K:70:GLN:HA	4:K:73:GLN:CD	2.16	0.65
5:L:295:CYS:O	5:L:296:LYS:CB	2.44	0.65
2:O:32:LEU:HD23	2:O:130:MET:HE1	1.78	0.65
2:O:448:LEU:HD23	2:O:448:LEU:C	2.16	0.65
1:A:39:LEU:HD23	1:A:39:LEU:N	2.11	0.65
1:B:124:VAL:HG21	1:B:210:THR:CG2	2.25	0.65
2:C:209:ILE:HD11	2:C:425:ILE:HG21	1.78	0.65
2:C:720:ARG:NH2	2:C:745:GLU:OE2	2.21	0.65
3:D:1028:ILE:HG23	3:D:1118:GLY:HA2	1.78	0.65
3:D:378:LYS:HE2	3:D:382:TYR:OH	1.96	0.65
5:F:123:ILE:HG21	5:F:376:LYS:HE3	1.78	0.65
2:I:1072:ASN:ND2	2:I:1111:GLN:OE1	2.29	0.65
2:I:566:GLY:O	2:I:569:ILE:HG22	1.97	0.65
2:I:660:VAL:HG21	3:J:769:VAL:HG12	1.77	0.65
2:I:524:ILE:CD1	2:I:712:SER:HB3	2.21	0.65
3:J:105:ILE:HD12	3:J:244:VAL:HG22	1.78	0.65
3:J:97:VAL:HG12	3:J:101:ARG:HD2	1.79	0.65
5:L:461:ASN:N	5:L:461:ASN:OD1	2.29	0.65
5:L:587:ILE:CD1	5:L:587:ILE:H	1.85	0.65
2:O:1337:ILE:HD11	3:P:20:ILE:HG21	1.77	0.65
3:P:1180:VAL:HG11	3:P:1203:ARG:HD3	1.79	0.65
3:P:1215:GLU:CB	3:P:1220:ILE:HD11	2.26	0.65
3:P:1262:ARG:HH12	3:P:1316:THR:CG2	2.10	0.65
3:P:1346:GLY:H	3:P:1349:GLU:CD	2.00	0.65
5:R:406:GLN:O	5:R:410:ILE:HG13	1.97	0.65
3:D:79:LYS:HZ3	5:F:569:THR:CA	2.10	0.65
4:E:60:ASN:ND2	4:E:62:GLN:HB3	2.12	0.65
5:F:120:ALA:HA	5:F:123:ILE:HD12	1.77	0.65
1:G:112:ALA:HB1	1:G:123:ILE:HG21	1.79	0.65
2:I:1107:MET:HE1	3:J:763:PHE:CE2	2.32	0.65
2:I:1284:ALA:HB1	3:J:1356:LEU:CD2	2.27	0.65
3:J:1124:ILE:HG22	3:J:1124:ILE:O	1.96	0.65
5:L:96:ASP:HB3	5:L:99:ARG:CG	2.26	0.65
2:O:727:VAL:H	2:O:773:LEU:HD22	1.61	0.65
5:R:446:GLN:O	5:R:447:ALA:HB3	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:533:ASP:O	5:R:536:THR:HB	1.96	0.65
2:C:335:THR:HG22	2:C:336:LEU:N	2.11	0.65
2:C:170:VAL:HG21	3:D:1065:ALA:HB1	1.79	0.65
3:D:482:ALA:O	3:D:488:ASN:ND2	2.29	0.65
3:D:79:LYS:HZ3	5:F:569:THR:CG2	2.10	0.65
2:I:178:PRO:HB3	2:I:397:LEU:HD23	1.78	0.65
2:I:149:LEU:HD11	2:I:451:ARG:CB	2.26	0.65
1:N:47:LEU:HD13	1:N:183:ILE:CD1	2.26	0.65
2:O:1088:ASP:OD1	2:O:1092:THR:O	2.14	0.65
2:O:1323:PHE:O	2:O:1327:LEU:HG	1.97	0.65
2:O:445:ILE:HD12	2:O:546:GLU:OE1	1.97	0.65
3:P:1145:PHE:CB	3:P:1309:ILE:HD11	2.27	0.65
3:P:76:LYS:HG3	3:P:77:ARG:HG3	1.79	0.65
5:R:461:ASN:HA	7:8:26:DT:H72	1.77	0.64
1:B:57:THR:HG21	1:B:147:GLN:NE2	2.12	0.64
2:C:1292:THR:CG2	2:C:1293:VAL:H	2.09	0.64
3:D:145:VAL:O	3:D:178:ALA:HB1	1.97	0.64
3:D:452:LEU:CD1	3:D:625:MET:CE	2.74	0.64
1:G:30:PRO:CB	1:G:198:LEU:HD13	2.27	0.64
1:G:231:PHE:CZ	1:H:39:LEU:HB3	2.32	0.64
3:J:1046:ILE:HD12	3:J:1059:LEU:HD22	1.77	0.64
3:J:132:LEU:HA	3:J:135:ILE:CD1	2.27	0.64
3:J:269:TYR:O	3:J:273:ILE:HG13	1.96	0.64
3:J:492:SER:HB3	3:J:499:ILE:HG13	1.79	0.64
5:L:551:LEU:HD13	5:L:559:LEU:HD12	1.79	0.64
2:O:805:MET:HA	2:O:1100:PRO:CG	2.27	0.64
2:O:405:PHE:HD1	2:O:406:ASN:OD1	1.79	0.64
3:P:1263:LYS:HB2	3:P:1307:LEU:HD11	1.79	0.64
3:P:347:VAL:HG12	3:P:348:ASP:O	1.96	0.64
2:O:1286:THR:HG23	3:P:479:GLU:OE2	1.97	0.64
3:D:1156:LEU:HD22	3:D:1209:VAL:CA	2.20	0.64
2:C:1269:ARG:NH1	3:D:340:GLN:HA	2.12	0.64
3:D:820:ILE:HD11	3:D:884:SER:CB	2.27	0.64
2:I:1151:LEU:CD2	2:I:1198:LEU:HD12	2.27	0.64
2:I:90:VAL:HG12	2:I:91:THR:N	2.13	0.64
3:J:1095:MET:HB3	3:J:1173:ARG:HH22	1.61	0.64
3:J:349:TYR:O	3:J:470:VAL:HG23	1.97	0.64
1:M:154:PRO:HG2	1:M:157:THR:HG1	1.62	0.64
1:M:44:ARG:HA	1:M:183:ILE:CD1	2.28	0.64
3:P:361:LEU:HD22	3:P:365:GLN:CB	2.27	0.64
2:O:1283:ALA:HB1	3:P:479:GLU:OE2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:697:MET:HE3	3:P:737:ILE:HG21	1.80	0.64
1:A:227:GLN:O	1:A:231:PHE:CZ	2.51	0.64
2:C:714:VAL:CG1	2:C:787:PRO:HD2	2.27	0.64
3:D:105:ILE:HG13	3:D:244:VAL:CG2	2.26	0.64
3:D:141:PHE:HD1	3:D:180:MET:HE3	1.63	0.64
3:D:591:ILE:HG22	3:D:592:VAL:N	2.10	0.64
3:D:885:VAL:CG1	3:D:886:VAL:N	2.60	0.64
1:G:26:VAL:HG11	1:G:217:ILE:CD1	2.26	0.64
3:J:68:TYR:C	3:J:92:VAL:HG13	2.16	0.64
5:L:548:LEU:CD2	5:L:551:LEU:HD12	2.27	0.64
2:O:90:VAL:HG12	2:O:91:THR:N	2.12	0.64
3:P:1239:ASP:O	3:P:1243:LEU:HG	1.98	0.64
5:R:101:TYR:OH	5:R:384:LEU:HB3	1.97	0.64
6:1:21:DC:H2"	6:1:22:DC:C6	2.32	0.64
6:7:48:DA:H3'	6:7:49:DG:H5"	1.78	0.64
1:A:228:LEU:HA	1:A:231:PHE:HE2	1.53	0.64
1:B:61:ILE:CD1	1:B:171:LEU:HD12	2.27	0.64
1:B:88:LEU:CD2	1:B:128:HIS:CD2	2.81	0.64
2:C:1293:VAL:O	2:C:1301:ARG:HB3	1.98	0.64
2:C:257:ALA:CB	2:C:262:TYR:CE2	2.81	0.64
3:D:1280:VAL:HG12	3:D:1281:GLU:N	2.12	0.64
3:D:130:MET:SD	3:D:135:ILE:HG23	2.37	0.64
3:D:395:LYS:C	3:D:398:LYS:HG3	2.16	0.64
3:D:673:VAL:HG11	3:D:678:ARG:HB2	1.78	0.64
3:D:796:LEU:CG	3:D:797:THR:N	2.53	0.64
2:I:149:LEU:HD21	2:I:451:ARG:HE	1.60	0.64
3:J:320:ASN:OD1	3:J:321:LYS:N	2.28	0.64
3:J:480:ALA:HA	3:J:484:MET:SD	2.37	0.64
1:M:46:ILE:HG12	1:N:35:PHE:CE1	2.32	0.64
2:O:149:LEU:HG	2:O:451:ARG:HE	1.61	0.64
3:P:527:LEU:HD13	3:P:532:GLU:CG	2.20	0.64
5:R:426:LYS:HG2	6:7:39:DA:H3'	1.78	0.64
3:P:264:ASP:OD1	5:R:508:GLU:HB2	1.97	0.64
1:A:79:LEU:HA	1:A:82:LEU:HD12	1.79	0.64
2:C:818:VAL:HG12	2:C:1096:ILE:HG12	1.80	0.64
3:D:30:ILE:HG23	3:D:243:PRO:HB3	1.80	0.64
5:F:586:ARG:HG3	5:F:587:ILE:HD13	1.80	0.64
2:I:736:VAL:HG23	2:I:747:GLY:O	1.98	0.64
2:I:75:LEU:HD21	2:I:127:ILE:CD1	2.28	0.64
2:I:898:GLU:O	2:I:901:LEU:HB3	1.98	0.64
3:J:185:ILE:HG22	3:J:189:LEU:CD1	2.24	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1333:LEU:HD21	3:J:327:LEU:HB3	1.79	0.64
5:L:554:ARG:HG3	5:L:555:GLU:N	2.12	0.64
2:O:12:ARG:HH11	2:O:12:ARG:HG3	1.62	0.64
2:O:894:GLN:O	2:O:894:GLN:HG3	1.97	0.64
3:P:1349:GLU:O	3:P:1353:VAL:HG13	1.97	0.64
3:P:963:VAL:HG23	3:P:975:ILE:HG23	1.78	0.64
2:O:564:PRO:HG3	8:9:13:GTP:O2A	1.97	0.64
3:D:955:LYS:HG3	3:D:1011:VAL:O	1.98	0.64
3:D:797:THR:HG21	3:D:924:GLY:HA3	1.79	0.64
2:I:1048:LYS:C	2:I:1049:ILE:CG1	2.66	0.64
2:I:559:CYS:HB2	2:I:662:SER:HB3	1.78	0.64
3:J:105:ILE:HG13	3:J:244:VAL:HG21	1.80	0.64
3:J:233:LYS:HG2	3:J:234:PRO:HD2	1.79	0.64
3:J:796:LEU:HG	3:J:797:THR:N	2.08	0.64
1:M:44:ARG:HA	1:M:183:ILE:HD11	1.80	0.64
3:P:1040:MET:HE3	3:P:1061:VAL:HG22	1.80	0.64
3:P:421:VAL:HG12	3:P:469:HIS:O	1.97	0.64
5:R:166:VAL:HG12	5:R:167:ASP:H	1.63	0.64
5:R:355:ILE:H	5:R:355:ILE:HD12	1.63	0.64
5:L:102:MET:CE	6:4:42:DG:N3	2.54	0.64
1:B:75:GLN:HE21	1:B:134:THR:HG22	1.61	0.64
2:C:1073:LYS:HZ2	8:3:15:G:C5'	2.11	0.64
2:C:155:VAL:HG22	2:C:405:PHE:CD2	2.33	0.64
2:C:262:TYR:CZ	2:C:277:LEU:HD13	2.32	0.64
2:C:297:VAL:HG13	2:C:317:LEU:HD21	1.79	0.64
3:D:474:LEU:CD1	4:E:28:ARG:CG	2.76	0.64
2:I:1200:LYS:HG3	2:I:1206:THR:CG2	2.27	0.64
3:J:330:MET:SD	3:J:337:ARG:NH2	2.71	0.64
3:J:506:VAL:HG12	3:J:510:LEU:HD11	1.79	0.64
1:M:35:PHE:O	1:M:39:LEU:CD1	2.45	0.64
1:N:199:ASP:OD1	1:N:199:ASP:N	2.30	0.64
2:O:378:ARG:HG2	2:O:379:GLU:N	2.11	0.64
2:O:144:VAL:HG21	2:O:515:MET:SD	2.37	0.64
2:O:734:ILE:HG23	2:O:749:ASP:HB2	1.78	0.64
3:P:259:ARG:NH1	5:R:502:LYS:HG2	2.13	0.64
3:D:1011:VAL:HG11	3:D:1017:VAL:HG11	1.78	0.64
3:D:1078:LEU:HG	3:D:1101:LEU:HD11	1.78	0.64
3:D:1353:VAL:HG23	3:D:1355:ARG:HB2	1.78	0.64
3:D:536:LEU:HD22	3:D:542:ALA:CB	2.28	0.64
5:F:468:ARG:HH22	7:2:25:DA:H2'	1.63	0.64
2:I:157:PHE:O	2:I:442:VAL:HG13	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:334:LYS:O	3:J:339:ARG:HB2	1.98	0.64
3:J:339:ARG:CZ	3:J:798:ARG:HH12	2.11	0.64
3:J:513:MET:SD	3:J:579:LEU:HD21	2.37	0.64
3:J:878:ASP:OD1	3:J:878:ASP:N	2.29	0.64
5:L:407:GLU:HA	5:L:410:ILE:CD1	2.28	0.64
1:M:106:GLY:HA2	1:M:136:GLU:HA	1.79	0.64
3:P:53:ARG:O	3:P:58:CYS:CB	2.46	0.64
5:R:440:THR:O	5:R:443:ILE:HG22	1.98	0.64
1:B:14:VAL:HG21	1:B:29:GLU:HG2	1.79	0.64
1:B:82:LEU:CD2	1:B:173:VAL:HG22	2.28	0.64
2:C:363:LEU:HB3	2:C:381:ALA:HB1	1.80	0.64
2:C:87:ILE:HG22	2:C:934:PHE:HZ	1.62	0.64
3:D:1035:VAL:HG22	3:D:1121:LEU:HD21	1.80	0.64
3:D:251:PRO:O	5:F:507:MET:HE3	1.98	0.64
3:D:316:ILE:CG2	3:D:324:LEU:HD12	2.27	0.64
2:I:589:THR:CG2	2:I:590:PRO:HD2	2.28	0.64
3:J:435:GLN:HB3	3:J:437:PHE:CE1	2.33	0.64
5:R:583:THR:CG2	5:R:586:ARG:CB	2.57	0.64
1:B:166:ARG:HG2	1:B:167:PRO:HD2	1.80	0.64
2:C:1299:ASN:OD1	2:C:1299:ASN:N	2.29	0.64
2:C:1340:GLU:HB2	3:D:19:ALA:O	1.98	0.64
2:C:82:VAL:CG2	2:C:83:GLN:N	2.60	0.64
3:D:117:LEU:CA	3:D:124:ILE:HD11	2.28	0.64
3:D:377:PHE:C	3:D:379:PRO:HD2	2.17	0.64
2:I:486:THR:HG23	2:I:487:LEU:HG	1.80	0.64
3:J:864:LEU:CD1	3:J:872:LEU:HD11	2.28	0.64
3:J:97:VAL:CG1	3:J:101:ARG:HD2	2.28	0.64
1:M:41:ASN:ND2	2:O:1217:THR:C	2.52	0.64
2:O:1198:LEU:O	2:O:1198:LEU:HD12	1.97	0.64
2:O:182:SER:O	2:O:395:TYR:HE1	1.81	0.64
2:O:194:LEU:CD1	2:O:432:LEU:HD21	2.28	0.64
2:O:885:GLY:HA2	2:O:917:SER:OG	1.98	0.64
2:O:673:HIS:ND1	3:P:763:PHE:O	2.31	0.64
4:Q:2:ALA:N	4:Q:51:LEU:HD13	2.12	0.64
5:R:452:ILE:CG2	5:R:456:MET:HG2	2.27	0.64
5:R:530:LEU:HB2	5:R:533:ASP:OD1	1.97	0.64
1:A:168:ILE:N	1:A:168:ILE:HD13	2.13	0.63
1:A:224:LEU:CD1	1:A:224:LEU:C	2.63	0.63
1:B:85:LEU:HD21	1:B:130:ILE:HG23	1.80	0.63
3:D:843:VAL:HG21	3:D:897:HIS:O	1.98	0.63
3:D:431:ARG:HH22	3:D:904:ALA:CB	2.09	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:458:GLU:OE2	7:2:28:DG:H8	1.80	0.63
2:I:1044:PRO:HB3	5:L:498:LEU:HD13	1.80	0.63
3:J:867:GLN:O	3:J:870:ASP:HB2	1.98	0.63
2:O:331:LYS:C	2:O:332:ARG:HG3	2.18	0.63
2:O:1280:ALA:HB1	3:P:431:ARG:HD2	1.81	0.63
3:P:795:TYR:CE1	7:8:12:DG:H5'	2.32	0.63
5:R:451:ARG:HH12	6:7:32:DA:P	2.21	0.63
3:D:1179:PRO:HD2	3:D:1182:GLY:O	1.97	0.63
3:D:121:PRO:O	3:D:122:SER:HB3	1.96	0.63
3:D:1243:LEU:HD22	3:D:1244:GLN:NE2	2.13	0.63
3:D:44:ILE:HD12	3:D:49:PHE:O	1.99	0.63
2:C:1104:PRO:HG3	3:D:725:MET:HE1	1.80	0.63
3:D:70:CYS:HB2	3:D:90:VAL:CB	2.27	0.63
5:F:338:HIS:O	5:F:341:LEU:HB3	1.98	0.63
5:F:412:LEU:O	5:F:416:VAL:HG23	1.97	0.63
1:G:11:PRO:HA	1:G:30:PRO:HD2	1.79	0.63
2:I:237:LEU:HD11	2:I:289:VAL:CG2	2.25	0.63
2:I:297:VAL:HG12	2:I:317:LEU:CD2	2.28	0.63
3:J:182:ALA:CA	3:J:185:ILE:HD12	2.23	0.63
3:J:882:VAL:CG2	3:J:882:VAL:O	2.45	0.63
2:O:1142:ARG:HH12	2:O:1169:VAL:HG21	1.63	0.63
3:P:1109:LEU:HD22	3:P:1113:VAL:HG21	1.79	0.63
3:P:1176:VAL:HG22	3:P:1187:GLU:HG2	1.79	0.63
3:P:146:VAL:CG2	3:P:158:GLN:HB3	2.28	0.63
2:C:669:PRO:HB3	2:C:1184:THR:CG2	2.28	0.63
1:H:83:LEU:HD11	3:J:526:VAL:O	1.98	0.63
2:I:167:SER:HB3	3:J:1064:SER:CB	2.24	0.63
2:I:178:PRO:CA	2:I:397:LEU:HD23	2.28	0.63
2:I:297:VAL:O	2:I:336:LEU:HD11	1.98	0.63
2:I:70:TYR:CE1	2:I:72:SER:HA	2.32	0.63
3:J:1022:PRO:HB2	3:J:1023:HIS:CD2	2.33	0.63
3:J:265:LEU:HA	3:J:268:LEU:HD12	1.80	0.63
2:O:1129:ASN:OD1	2:O:1133:LYS:CE	2.42	0.63
2:O:369:MET:HG3	2:O:370:MET:N	2.11	0.63
3:P:121:PRO:O	3:P:122:SER:HB3	1.97	0.63
3:P:1369:ARG:HG2	3:P:1372:ARG:NH1	2.14	0.63
2:C:1073:LYS:NZ	8:3:15:G:P	2.71	0.63
3:D:1051:ASP:HB2	3:D:1056:LEU:O	1.98	0.63
3:D:503:SER:O	3:D:506:VAL:CG2	2.44	0.63
3:D:645:VAL:CG2	3:D:700:ASN:HD22	2.12	0.63
3:D:742:GLY:O	3:D:762:ASN:HB3	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:849:LEU:O	3:D:850:LYS:HB2	1.97	0.63
2:I:1210:ILE:HG22	2:I:1211:ARG:N	2.12	0.63
2:I:215:TYR:OH	2:I:422:LYS:NZ	2.31	0.63
3:J:1263:LYS:HB2	3:J:1307:LEU:CD1	2.29	0.63
3:J:694:SER:OG	3:J:738:ARG:NE	2.32	0.63
3:J:614:LEU:HD23	4:K:7:GLN:OE1	1.98	0.63
5:L:451:ARG:HD2	5:L:453:PRO:HD3	1.80	0.63
1:M:67:GLU:HA	1:M:78:ILE:HG21	1.80	0.63
2:O:77:GLU:HB3	2:O:78:PRO:HD2	1.80	0.63
2:O:371:ARG:HB3	5:R:99:ARG:CZ	2.29	0.63
3:D:116:PHE:O	3:D:124:ILE:HG13	1.99	0.63
3:D:1274:PHE:HA	3:D:1278:GLU:HG3	1.79	0.63
3:D:1285:VAL:HG13	3:D:1286:LYS:N	2.12	0.63
3:D:264:ASP:OD2	5:F:508:GLU:HB2	1.98	0.63
5:F:585:GLU:CD	5:F:588:ARG:HB3	2.19	0.63
1:G:57:THR:HG22	1:G:58:GLU:HG3	1.81	0.63
1:H:82:LEU:HD13	1:H:173:VAL:HG13	1.80	0.63
1:H:82:LEU:CD2	1:H:173:VAL:HG21	2.21	0.63
2:I:32:LEU:HA	2:I:130:MET:HE1	1.81	0.63
2:I:130:MET:HB2	2:I:136:PHE:CE1	2.33	0.63
3:J:786:THR:HG23	3:J:787:ALA:N	2.13	0.63
5:L:584:ARG:O	5:L:587:ILE:CG1	2.39	0.63
2:O:1237:HIS:CG	2:O:1242:LYS:NZ	2.66	0.63
2:O:804:PHE:O	2:O:805:MET:CB	2.47	0.63
2:O:167:SER:HB3	3:P:1064:SER:HB2	1.81	0.63
3:P:1078:LEU:HB2	3:P:1121:LEU:HD13	1.80	0.63
3:P:847:ASP:OD1	3:P:860:ARG:HB3	1.98	0.63
1:A:86:LYS:HE3	1:A:173:VAL:HG12	1.80	0.63
1:B:61:ILE:CD1	1:B:64:VAL:CG1	2.76	0.63
3:D:197:GLU:O	3:D:201:LEU:HG	1.98	0.63
3:D:613:GLY:O	3:D:617:THR:HG23	1.99	0.63
3:D:844:THR:HG21	3:D:864:LEU:HD21	1.80	0.63
5:F:402:LEU:HA	5:F:405:ILE:CD1	2.24	0.63
1:G:31:LEU:CD1	1:G:201:LEU:HB2	2.28	0.63
2:I:967:LEU:HD23	2:I:1021:LEU:HD11	1.79	0.63
2:I:191:LYS:O	2:I:192:ASP:HB2	1.98	0.63
2:I:851:THR:CG2	2:I:852:ALA:H	2.11	0.63
3:J:1264:ALA:HB1	3:J:1303:SER:O	1.98	0.63
3:J:918:ILE:HG22	3:J:919:ALA:N	2.14	0.63
2:O:178:PRO:HB3	2:O:395:TYR:CE2	2.33	0.63
2:O:230:PHE:HE1	2:O:292:ILE:HD11	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:363:LEU:HD22	2:O:385:PHE:HB2	1.79	0.63
2:O:573:ASN:OD1	3:P:780:ARG:NH2	2.30	0.63
2:O:782:VAL:HG21	2:O:792:GLY:HA2	1.80	0.63
3:P:1029:THR:HG21	3:P:1080:ILE:HD11	1.81	0.63
3:P:337:ARG:HD2	3:P:341:ASN:ND2	2.12	0.63
5:R:550:GLY:HA3	5:R:603:ARG:NH2	2.14	0.63
7:5:45:DG:N2	7:5:46:DT:O2	2.31	0.63
5:F:339:ARG:O	5:F:342:GLN:HB2	1.98	0.63
5:F:377:LYS:O	5:F:381:GLU:HG3	1.97	0.63
2:I:1166:ASP:O	2:I:1169:VAL:HB	1.97	0.63
2:I:489:PRO:O	2:I:493:ILE:HD12	1.98	0.63
2:I:870:ILE:HG21	2:I:944:ARG:CD	2.28	0.63
5:L:452:ILE:CG2	5:L:456:MET:HB3	2.29	0.63
2:O:1307:ASN:HB3	2:O:1312:ASN:HB3	1.80	0.63
3:P:1319:PHE:HD2	3:P:1340:LYS:CD	2.11	0.63
2:O:1077:SER:HB3	3:P:357:VAL:HG23	1.80	0.63
3:P:501:VAL:CG1	3:P:502:PRO:HD2	2.29	0.63
3:P:572:THR:OG1	3:P:573:THR:N	2.31	0.63
2:O:1100:PRO:HG2	3:P:637:ALA:O	1.98	0.63
6:7:45:DT:H2'	6:7:46:DG:O4'	1.99	0.63
6:7:53:DG:H1'	6:7:54:DA:H5"	1.81	0.63
1:B:217:ILE:HD13	1:B:217:ILE:H	1.61	0.63
3:D:373:ALA:HA	3:D:376:LEU:HD12	1.80	0.63
5:F:91:ILE:HG23	5:F:94:THR:H	1.62	0.63
1:G:59:VAL:HG22	1:G:144:ILE:CG2	2.17	0.63
2:I:519:ASN:OD1	2:I:522:SER:HB2	1.98	0.63
2:I:726:TYR:HB3	2:I:733:VAL:HG22	1.79	0.63
3:J:770:LEU:O	3:J:774:ILE:CG1	2.39	0.63
5:L:476:ARG:HG3	5:L:477:GLU:H	1.61	0.63
3:J:79:LYS:HD2	5:L:569:THR:CG2	2.27	0.63
1:M:224:LEU:CD1	1:M:224:LEU:C	2.42	0.63
1:M:40:GLY:CA	1:M:43:LEU:CD1	2.77	0.63
2:O:149:LEU:HD12	2:O:452:ARG:O	1.98	0.63
3:D:1328:THR:HG22	3:D:1332:LEU:CD1	2.28	0.63
2:C:1309:VAL:HG13	3:D:383:GLY:CA	2.29	0.63
3:D:68:TYR:HA	3:D:92:VAL:HG13	1.80	0.63
5:F:456:MET:O	5:F:460:ILE:HG13	1.97	0.63
2:I:1210:ILE:CG2	2:I:1211:ARG:N	2.62	0.63
2:I:1276:TRP:HE1	3:J:1348:LYS:CE	2.12	0.63
2:I:296:VAL:HG12	2:I:297:VAL:H	1.64	0.63
3:J:431:ARG:NH2	3:J:904:ALA:CB	2.62	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:228:LEU:CD2	1:N:221:ALA:HB1	2.28	0.63
3:P:1326:GLN:NE2	7:8:11:DA:H4'	2.14	0.63
5:R:137:TYR:CG	5:R:138:PRO:HD2	2.34	0.63
5:R:460:ILE:O	5:R:463:LEU:HB2	1.99	0.63
5:F:585:GLU:HG3	7:2:46:DT:C7	2.24	0.62
5:R:573:LEU:HB3	7:8:45:DG:OP2	1.99	0.62
1:A:224:LEU:C	1:A:224:LEU:HD12	2.15	0.62
1:A:35:PHE:HE2	1:B:50:SER:HG	1.46	0.62
2:C:1225:VAL:CG1	2:C:1226:THR:N	2.62	0.62
2:C:184:LEU:HB3	2:C:186:PHE:HE2	1.64	0.62
3:D:1218:HIS:CD2	3:D:1306:LEU:HD23	2.34	0.62
3:D:111:THR:HG23	3:D:300:GLN:NE2	2.13	0.62
3:D:858:VAL:HG11	3:D:872:LEU:CD1	2.29	0.62
3:D:915:ILE:O	3:D:918:ILE:CG2	2.46	0.62
3:J:111:THR:HG23	3:J:112:ALA:N	2.13	0.62
3:J:121:PRO:O	3:J:122:SER:HB3	1.98	0.62
3:J:140:TYR:O	3:J:141:PHE:HB2	1.98	0.62
3:J:373:ALA:CA	3:J:376:LEU:HD12	2.17	0.62
5:L:102:MET:HE1	5:L:105:MET:HE1	1.80	0.62
2:O:1068:GLY:HA3	2:O:1232:MET:HE1	1.81	0.62
2:O:368:ARG:HD3	5:R:90:GLU:HG2	1.79	0.62
2:O:191:LYS:HA	3:P:1069:ALA:HB2	1.80	0.62
3:P:341:ASN:O	3:P:345:LYS:HE2	1.99	0.62
2:C:213:LEU:O	2:C:214:ASN:HB3	1.99	0.62
2:C:514:PHE:CZ	7:2:19:DA:H1'	2.34	0.62
3:J:116:PHE:CE1	3:J:1333:THR:HG22	2.34	0.62
3:J:805:GLN:CA	3:J:1347:LEU:HD12	2.29	0.62
3:J:849:LEU:HD21	3:J:857:LEU:CA	2.15	0.62
4:K:79:GLU:HG2	4:K:79:GLU:O	1.99	0.62
1:N:47:LEU:HD13	1:N:183:ILE:HG21	1.81	0.62
2:O:1225:VAL:CG1	2:O:1226:THR:N	2.61	0.62
2:O:870:ILE:HG21	2:O:944:ARG:NE	2.12	0.62
3:P:1101:LEU:HD22	3:P:1122:ALA:CB	2.27	0.62
3:P:501:VAL:HG12	3:P:502:PRO:HD2	1.81	0.62
5:R:568:ASN:OD1	5:R:568:ASN:N	2.32	0.62
6:4:40:DA:H2"	6:4:41:DT:H5'	1.81	0.62
5:L:386:LEU:CD1	6:4:41:DT:O4'	2.43	0.62
2:C:1284:ALA:HB3	3:D:1361:THR:CG2	2.29	0.62
2:C:75:LEU:CD2	2:C:94:ALA:CB	2.73	0.62
3:D:416:ILE:CD1	3:D:441:LEU:HG	2.29	0.62
3:D:709:ARG:O	3:D:709:ARG:HG3	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:133:SER:HB3	5:F:365:MET:SD	2.40	0.62
1:G:30:PRO:HB2	1:G:198:LEU:HD13	1.79	0.62
2:I:390:PHE:HD2	2:I:390:PHE:N	1.98	0.62
3:J:1270:GLY:HA2	3:J:1298:VAL:O	1.98	0.62
3:J:115:TRP:CE2	3:J:1329:THR:HG22	2.32	0.62
3:J:130:MET:CE	3:J:135:ILE:HG12	2.29	0.62
5:L:102:MET:HE2	6:4:42:DG:C2	2.33	0.62
5:L:265:GLN:O	5:L:269:LEU:HG	2.00	0.62
1:M:38:THR:HG23	1:N:42:ALA:CB	2.29	0.62
2:O:363:LEU:CD2	2:O:385:PHE:HB2	2.29	0.62
2:O:372:PRO:O	5:R:94:THR:OG1	2.09	0.62
3:P:499:ILE:HG22	3:P:500:ILE:CG1	2.29	0.62
3:P:918:ILE:HG22	3:P:919:ALA:N	2.14	0.62
3:P:42:GLU:HG2	5:R:451:ARG:HB3	1.80	0.62
6:1:45:DT:H2"	6:1:46:DG:O4'	1.98	0.62
3:D:1250:ASP:O	3:D:1254:GLU:HG3	1.99	0.62
2:C:1289:GLU:OE1	3:D:472:LEU:HB2	1.98	0.62
3:D:490:ILE:HG23	3:D:500:ILE:HG13	1.82	0.62
3:D:845:ALA:CB	3:D:881:LYS:HD3	2.30	0.62
4:E:53:GLU:CB	4:E:59:ILE:HG13	2.28	0.62
4:E:60:ASN:OD1	4:E:62:GLN:N	2.28	0.62
1:H:86:LYS:HE2	1:H:174:ASP:HB2	1.80	0.62
2:I:1225:VAL:HG13	3:J:638:SER:HB3	1.82	0.62
2:I:557:ARG:O	2:I:575:LEU:HD12	1.99	0.62
3:J:1029:THR:HG23	3:J:1121:LEU:CD1	2.28	0.62
3:J:1323:ALA:O	3:J:1328:THR:HG23	2.00	0.62
3:J:227:PHE:HE1	3:J:234:PRO:HD3	1.65	0.62
3:J:899:TYR:CD1	3:J:915:ILE:HD13	2.33	0.62
5:L:597:LYS:O	5:L:600:HIS:HB2	1.98	0.62
2:O:935:THR:HA	2:O:1048:LYS:HG2	1.80	0.62
2:O:1081:PRO:HB3	2:O:1083:GLU:OE1	1.98	0.62
2:O:1125:GLY:HA2	2:O:1128:ILE:HD12	1.82	0.62
2:O:1184:THR:O	2:O:1184:THR:CG2	2.47	0.62
3:P:1078:LEU:HD12	3:P:1121:LEU:HB3	1.80	0.62
2:C:282:VAL:HG11	2:C:285:ILE:HG13	1.81	0.62
3:D:796:LEU:CD1	3:D:800:LEU:HD11	2.29	0.62
3:D:814:CYS:SG	3:D:883:ARG:NH2	2.72	0.62
5:F:503:GLU:CB	5:F:504:PRO:HD2	2.29	0.62
2:I:300:ASP:N	2:I:300:ASP:OD1	2.31	0.62
2:I:82:VAL:O	2:I:86:GLN:HG3	2.00	0.62
3:J:945:ALA:CB	3:J:1023:HIS:CE1	2.83	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1343:GLU:O	3:J:1344:LEU:HB2	1.97	0.62
3:J:111:THR:CG2	3:J:300:GLN:HE22	2.05	0.62
3:J:322:ARG:NH2	5:L:506:SER:OG	2.32	0.62
2:O:448:LEU:CD2	2:O:448:LEU:C	2.68	0.62
3:P:147:ILE:HD12	3:P:177:ASP:HB3	1.81	0.62
3:P:384:LYS:HZ2	3:P:415:VAL:HG22	1.64	0.62
3:P:492:SER:O	3:P:495:ASN:O	2.18	0.62
1:B:31:LEU:HD11	1:B:39:LEU:HD12	1.80	0.62
5:F:452:ILE:HG22	5:F:457:ILE:HG12	1.81	0.62
1:H:28:LEU:HD12	1:H:201:LEU:HB2	1.82	0.62
2:I:138:ILE:N	2:I:138:ILE:HD13	2.11	0.62
2:I:169:LYS:HD3	3:J:1068:THR:HA	1.82	0.62
2:I:230:PHE:CE1	2:I:292:ILE:HG13	2.34	0.62
2:I:211:ARG:NH1	2:I:357:ASN:O	2.33	0.62
5:L:310:GLU:OE2	5:L:355:ILE:HG21	1.99	0.62
5:L:583:THR:HG22	5:L:587:ILE:CD1	2.28	0.62
1:N:99:ILE:HG12	1:N:145:LYS:CE	2.30	0.62
2:O:1294:LYS:HD3	3:P:347:VAL:HG13	1.82	0.62
2:O:184:LEU:CG	2:O:389:PHE:CZ	2.83	0.62
6:4:50:DT:H3'	6:4:51:DC:H5'	1.80	0.62
2:C:521:LEU:CD2	2:C:686:GLN:HB3	2.29	0.62
3:D:1226:VAL:O	3:D:1229:VAL:HG12	1.94	0.62
3:D:820:ILE:O	3:D:882:VAL:HG13	1.98	0.62
1:G:215:GLU:HG2	1:G:219:ARG:HH21	1.64	0.62
2:I:1180:MET:HG3	2:I:1181:PRO:HD2	1.82	0.62
2:I:1256:GLN:HE22	3:J:96:LYS:HZ1	1.48	0.62
2:I:390:PHE:HD2	2:I:390:PHE:H	1.45	0.62
2:I:505:PHE:O	2:I:509:SER:HB3	2.00	0.62
2:I:870:ILE:HG13	2:I:944:ARG:CB	2.30	0.62
2:I:967:LEU:CD2	2:I:1021:LEU:HD11	2.30	0.62
3:J:1210:ILE:HD12	3:J:1210:ILE:N	2.14	0.62
2:I:1337:ILE:CD1	3:J:22:ILE:HG12	2.20	0.62
2:I:550:VAL:HG22	3:J:780:ARG:CD	2.28	0.62
2:O:678:ARG:CZ	2:O:1106:ARG:HD2	2.30	0.62
2:O:245:ARG:HD3	2:O:337:PHE:CE1	2.34	0.62
3:P:398:LYS:HE2	5:R:532:LEU:HD21	1.81	0.62
3:P:849:LEU:HA	3:P:856:ILE:O	1.99	0.62
3:P:997:VAL:HG13	3:P:1001:ALA:CB	2.29	0.62
2:C:1087:TYR:HE1	2:C:1215:GLY:HA2	1.64	0.62
2:C:183:TRP:HZ3	6:1:47:DC:N4	1.98	0.62
2:C:12:ARG:NH2	2:C:698:PRO:O	2.29	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1082:ASP:OD1	3:D:1086:ASN:HB2	2.00	0.62
3:D:1159:ILE:HG22	3:D:1160:SER:N	2.15	0.62
3:D:1243:LEU:HD13	3:D:1244:GLN:HE21	1.64	0.62
2:I:104:ILE:CD1	2:I:484:LEU:O	2.47	0.62
2:I:136:PHE:CB	2:I:138:ILE:HD11	2.29	0.62
3:J:1342:ASP:OD1	3:J:1344:LEU:N	2.33	0.62
3:J:379:PRO:HA	3:J:382:TYR:HD2	1.65	0.62
2:I:1107:MET:CE	3:J:763:PHE:CE2	2.82	0.62
2:O:38:PHE:O	2:O:49:LEU:HD12	2.00	0.62
3:P:1052:GLU:HG2	3:P:1053:LEU:N	2.09	0.62
3:P:53:ARG:O	3:P:58:CYS:SG	2.58	0.62
7:5:23:DT:H3'	7:5:24:DT:H5"	1.81	0.62
7:5:25:DA:C1'	7:5:26:DT:H5"	2.19	0.62
6:7:21:DC:O2	7:8:42:DG:N2	2.30	0.62
1:A:235:ARG:HA	1:B:218:ARG:CZ	2.30	0.62
1:B:65:LEU:O	1:B:169:GLY:CA	2.46	0.62
2:C:255:ILE:CD1	2:C:285:ILE:CD1	2.77	0.62
3:D:808:VAL:HG12	3:D:809:VAL:N	2.13	0.62
2:I:804:PHE:O	2:I:805:MET:HB3	1.99	0.62
2:I:890:LYS:HZ2	2:I:893:THR:HG23	1.64	0.62
3:J:109:SER:HB2	3:J:296:LYS:CE	2.29	0.62
3:J:886:VAL:HG13	3:J:1261:LEU:HD12	1.82	0.62
3:J:127:LEU:HD11	3:J:227:PHE:HE2	1.65	0.62
3:J:1226:VAL:HG21	3:J:1304:ARG:CZ	2.29	0.62
3:J:782:GLY:O	3:J:935:PHE:HB3	2.00	0.62
3:J:88:CYS:SG	10:J:1501:ZN:ZN	1.88	0.62
5:L:490:PRO:O	5:L:494:ILE:HD13	2.00	0.62
1:N:54:CYS:SG	1:N:148:ARG:HA	2.40	0.62
1:M:45:ARG:HD3	1:N:38:THR:CB	2.30	0.62
2:O:1049:ILE:CG2	2:O:1050:VAL:N	2.63	0.62
2:O:448:LEU:CD2	2:O:448:LEU:O	2.42	0.62
2:O:807:TRP:CD1	2:O:817:LEU:HD11	2.35	0.62
3:P:844:THR:HA	3:P:883:ARG:H	1.63	0.62
5:R:407:GLU:OE2	5:R:442:SER:HB3	2.00	0.62
5:L:586:ARG:HD3	6:4:13:DC:H5	1.65	0.62
2:C:253:PHE:CG	2:C:288:PRO:HD2	2.34	0.62
3:D:514:THR:HG21	3:D:596:LEU:CG	2.24	0.62
3:D:619:ILE:HG22	3:D:620:PHE:CA	2.29	0.62
5:F:455:HIS:HD2	6:1:31:DT:H72	1.65	0.62
2:I:496:LYS:HB3	2:I:497:PRO:CD	2.27	0.62
2:I:708:VAL:HG11	2:I:794:LEU:HD22	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:423:LEU:C	3:J:466:MET:HE1	2.19	0.62
3:J:741:ALA:C	3:J:762:ASN:HD22	2.02	0.62
3:J:899:TYR:CG	3:J:915:ILE:HD13	2.35	0.62
3:J:97:VAL:HG12	3:J:101:ARG:HG3	1.80	0.62
5:L:216:LEU:O	5:L:220:LYS:HG3	1.98	0.62
5:L:594:ALA:O	5:L:598:LEU:HG	1.99	0.62
2:O:811:ASN:HD22	2:O:1099:ASN:N	1.97	0.62
2:O:205:PRO:HB2	2:O:207:THR:HG22	1.81	0.62
2:O:759:SER:CA	2:O:765:ILE:HD11	2.30	0.62
3:P:587:LEU:HD21	3:P:612:LEU:CD2	2.27	0.62
5:R:324:LYS:HB3	5:R:325:PRO:CD	2.29	0.62
3:P:251:PRO:HB2	5:R:507:MET:HE1	1.82	0.62
1:A:19:VAL:HG12	1:A:20:SER:N	2.13	0.61
2:C:13:LYS:CE	2:C:1149:TYR:O	2.48	0.61
2:C:390:PHE:CD2	2:C:390:PHE:N	2.68	0.61
2:C:551:HIS:CE1	2:C:553:THR:HG1	2.17	0.61
3:D:1230:THR:HA	3:D:1233:ILE:HD12	1.82	0.61
2:C:810:TYR:CZ	3:D:359:PRO:HG2	2.35	0.61
3:D:536:LEU:HD22	3:D:542:ALA:HB3	1.81	0.61
3:D:65:VAL:HG12	3:D:66:LYS:HG3	1.81	0.61
2:I:1098:LEU:HD23	2:I:1099:ASN:H	1.65	0.61
2:I:1326:LEU:HD21	3:J:342:LEU:HD13	1.82	0.61
3:J:509:GLY:O	3:J:513:MET:HG3	1.99	0.61
3:J:519:ASN:HD21	3:J:709:ARG:HA	1.64	0.61
3:J:520:ALA:HB3	3:J:546:ALA:HB2	1.80	0.61
5:L:383:ASN:ND2	6:4:41:DT:H3	1.96	0.61
5:L:91:ILE:O	5:L:91:ILE:CG2	2.46	0.61
1:M:224:LEU:HD23	1:N:228:LEU:CG	2.28	0.61
1:N:214:GLU:HA	1:N:217:ILE:HD12	1.82	0.61
2:O:1184:THR:OG1	2:O:1189:GLY:CA	2.48	0.61
2:O:374:GLU:HB2	5:R:99:ARG:HD2	1.82	0.61
6:1:42:DG:H3'	6:1:42:DG:P	2.40	0.61
2:C:1116:HIS:CD2	3:D:641:ILE:HG13	2.35	0.61
3:D:952:VAL:HG11	3:D:1011:VAL:HG21	1.82	0.61
3:D:712:GLN:O	3:D:713:GLU:HG2	2.00	0.61
2:I:1299:ASN:O	2:I:1302:THR:HG22	2.01	0.61
2:I:230:PHE:HE1	2:I:292:ILE:HG13	1.64	0.61
2:I:387:ASN:HA	2:I:391:SER:HB2	1.81	0.61
3:J:105:ILE:CD1	3:J:244:VAL:CG2	2.78	0.61
3:J:111:THR:CG2	3:J:300:GLN:NE2	2.60	0.61
2:O:371:ARG:HA	5:R:99:ARG:HH21	1.65	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:1:45:DT:C2'	6:1:46:DG:O4'	2.49	0.61
5:R:465:ARG:HH12	7:8:27:DA:H5'	1.63	0.61
2:C:1040:ASP:O	2:C:1042:LEU:HG	1.99	0.61
3:D:79:LYS:NZ	5:F:569:THR:CG2	2.62	0.61
5:F:166:VAL:HG11	5:F:212:ILE:HG13	1.82	0.61
1:G:100:LEU:HD21	1:G:118:ASP:HB2	1.81	0.61
1:G:224:LEU:HD23	1:H:228:LEU:HD21	1.82	0.61
2:I:871:VAL:HG23	2:I:883:LEU:O	2.00	0.61
2:O:790:ASP:O	2:O:792:GLY:N	2.33	0.61
3:P:1250:ASP:N	3:P:1250:ASP:OD1	2.31	0.61
5:R:288:MET:SD	5:R:299:LYS:HE2	2.41	0.61
5:R:388:ILE:HG21	6:7:42:DG:H5"	1.82	0.61
3:D:625:MET:HG2	3:D:629:PHE:HE2	1.65	0.61
5:F:458:GLU:CA	5:F:461:ASN:HD21	2.05	0.61
2:I:333:ILE:HG22	2:I:334:GLU:N	2.13	0.61
2:I:358:ASP:OD2	2:I:360:LEU:HB2	1.99	0.61
2:I:402:ARG:HD2	2:I:416:GLY:HA3	1.82	0.61
3:J:22:ILE:CD1	3:J:1319:PHE:CE1	2.83	0.61
2:O:453:ILE:HG12	2:O:585:GLY:O	2.00	0.61
2:O:708:VAL:HB	2:O:794:LEU:HD13	1.81	0.61
3:P:128:LEU:HD11	3:P:189:LEU:HD21	1.82	0.61
3:P:805:GLN:HB2	3:P:1347:LEU:CD1	2.30	0.61
5:F:426:LYS:HG2	6:1:39:DA:H3'	1.82	0.61
2:C:1061:GLN:HB2	2:C:1062:PRO:CD	2.30	0.61
2:C:12:ARG:HG3	2:C:1181:PRO:O	2.01	0.61
3:D:1190:ILE:HD13	3:D:1196:LEU:HD22	1.82	0.61
3:D:886:VAL:HG22	3:D:1258:ARG:HB2	1.80	0.61
3:D:1344:LEU:HD22	3:D:1349:GLU:HB3	1.83	0.61
3:D:185:ILE:O	3:D:189:LEU:CD1	2.48	0.61
3:D:835:LEU:O	3:D:839:VAL:HB	1.99	0.61
3:D:858:VAL:CG1	3:D:872:LEU:HD11	2.31	0.61
5:F:457:ILE:O	5:F:461:ASN:CG	2.38	0.61
1:G:232:VAL:CG2	1:H:221:ALA:CB	2.78	0.61
1:G:67:GLU:HA	1:G:78:ILE:HG21	1.80	0.61
1:G:11:PRO:O	1:H:230:ALA:HB2	2.00	0.61
2:I:822:VAL:CG1	2:I:1060:ILE:HD13	2.30	0.61
3:J:342:LEU:HD22	3:J:1352:ILE:CG2	2.21	0.61
3:J:405:GLU:O	3:J:408:VAL:HB	1.99	0.61
3:J:517:CYS:SG	3:J:518:VAL:N	2.73	0.61
3:J:53:ARG:O	3:J:58:CYS:CB	2.48	0.61
3:J:431:ARG:NH2	3:J:904:ALA:HB3	2.13	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:503:GLU:HB3	5:L:504:PRO:HD2	1.82	0.61
1:N:55:ALA:O	1:N:146:VAL:HG13	2.01	0.61
2:O:1161:LEU:CD1	2:O:1164:PHE:HB2	2.31	0.61
2:O:1142:ARG:NH1	2:O:1169:VAL:CG2	2.64	0.61
2:O:297:VAL:HG22	2:O:315:MET:O	2.01	0.61
2:O:374:GLU:HG3	2:O:375:PRO:HD2	1.82	0.61
2:O:893:THR:HG22	2:O:895:LEU:HG	1.82	0.61
4:Q:39:VAL:HG12	4:Q:40:PRO:HD2	1.83	0.61
7:2:27:DA:H1'	7:2:28:DG:H5'	1.83	0.61
6:7:59:DG:O6	7:8:3:DG:O6	2.19	0.61
2:C:558:VAL:HG22	2:C:574:SER:O	2.00	0.61
3:D:24:LEU:HD11	3:D:232:ASN:HB3	1.82	0.61
3:D:58:CYS:SG	3:D:60:ARG:HB3	2.40	0.61
3:D:943:ARG:HG3	3:D:1132:LYS:HE3	1.83	0.61
2:I:206:ALA:O	2:I:209:ILE:CG2	2.35	0.61
5:L:216:LEU:O	5:L:220:LYS:HG2	2.01	0.61
5:L:533:ASP:O	5:L:536:THR:HB	2.01	0.61
5:L:586:ARG:HD3	6:4:13:DC:C5	2.36	0.61
5:L:597:LYS:O	5:L:600:HIS:CB	2.48	0.61
1:N:71:LYS:HD3	1:N:140:ILE:HD13	1.82	0.61
2:O:412:GLU:N	2:O:412:GLU:OE1	2.34	0.61
2:O:149:LEU:HD13	2:O:453:ILE:CD1	2.31	0.61
3:P:1047:THR:HB	3:P:1062:LEU:HD11	1.80	0.61
3:P:421:VAL:CG2	3:P:439:PRO:HG3	2.21	0.61
2:C:1088:ASP:OD1	2:C:1092:THR:O	2.18	0.61
2:C:505:PHE:O	2:C:509:SER:HB3	2.00	0.61
2:C:953:LEU:O	2:C:957:LYS:HG3	2.01	0.61
3:D:253:VAL:HB	3:D:254:PRO:CD	2.30	0.61
3:D:318:GLY:HA2	3:D:324:LEU:CD2	2.27	0.61
3:D:431:ARG:HH22	3:D:904:ALA:HB3	1.65	0.61
5:F:322:MET:O	5:F:323:ASN:HB2	1.99	0.61
5:F:558:VAL:HG11	5:F:590:ILE:HG21	1.83	0.61
1:H:223:ILE:O	1:H:227:GLN:HG2	2.00	0.61
2:I:839:VAL:O	2:I:886:LYS:HE2	2.01	0.61
3:J:111:THR:CG2	3:J:112:ALA:N	2.63	0.61
3:J:1263:LYS:HB2	3:J:1307:LEU:HD11	1.82	0.61
3:J:431:ARG:HH21	3:J:904:ALA:HB1	1.65	0.61
3:J:849:LEU:HD22	3:J:857:LEU:HA	1.79	0.61
1:M:53:GLY:HA2	1:M:210:THR:HG21	1.81	0.61
3:P:1190:ILE:HG21	3:P:1196:LEU:HD21	1.82	0.61
3:P:337:ARG:HD2	3:P:341:ASN:HD22	1.66	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:673:VAL:HG12	3:P:674:THR:O	2.00	0.61
5:R:530:LEU:HB2	5:R:533:ASP:CG	2.21	0.61
5:R:590:ILE:HA	5:R:593:LYS:HE3	1.82	0.61
2:C:1077:SER:HA	3:D:356:THR:HG22	1.83	0.61
2:C:346:TYR:CZ	2:C:436:ARG:HG3	2.36	0.61
2:C:449:GLY:O	2:C:586:PHE:CE1	2.53	0.61
2:C:851:THR:CG2	2:C:852:ALA:N	2.63	0.61
2:C:868:SER:HB2	2:C:944:ARG:HB2	1.82	0.61
3:D:1002:VAL:HB	3:D:1019:ASN:O	2.00	0.61
3:D:423:LEU:HD23	3:D:423:LEU:N	2.12	0.61
3:D:530:PRO:HD2	3:D:531:LYS:HE2	1.83	0.61
2:I:191:LYS:CA	3:J:1069:ALA:HB3	2.31	0.61
2:I:9:LYS:HG2	2:I:1171:ARG:HD2	1.82	0.61
3:J:130:MET:HG2	3:J:131:PRO:O	2.00	0.61
3:J:294:ASN:ND2	5:L:101:TYR:HD1	1.99	0.61
5:L:390:ILE:HD12	5:L:435:ILE:HD12	1.81	0.61
1:M:16:ILE:HG23	1:M:26:VAL:HG22	1.80	0.61
1:N:193:GLU:O	1:N:194:GLN:CB	2.47	0.61
1:N:190:ALA:HB2	1:N:199:ASP:C	2.21	0.61
2:O:1077:SER:HA	3:P:356:THR:HG23	1.82	0.61
5:R:547:VAL:HG21	5:R:607:LEU:HD11	1.83	0.61
6:1:46:DG:C5'	6:1:46:DG:H8	2.14	0.61
7:2:33:DC:H2"	7:2:34:DG:OP2	2.00	0.61
3:D:331:ILE:HG22	3:D:338:PHE:CE2	2.35	0.61
3:D:379:PRO:HG2	3:D:380:PHE:H	1.65	0.61
2:I:151:ARG:HD2	2:I:445:ILE:HG23	1.83	0.61
2:I:528:ARG:NH2	2:I:575:LEU:HD23	2.15	0.61
2:I:592:ARG:HG3	2:I:592:ARG:HH11	1.66	0.61
3:J:1052:GLU:HG2	3:J:1053:LEU:H	1.66	0.61
5:L:551:LEU:HD23	5:L:597:LYS:HD2	1.83	0.61
3:P:189:LEU:O	3:P:192:MET:HG2	2.00	0.61
1:A:29:GLU:CB	1:A:30:PRO:HA	2.31	0.61
2:C:402:ARG:CG	2:C:416:GLY:HA3	2.13	0.61
2:C:521:LEU:HD11	2:C:687:ARG:HG2	1.82	0.61
2:C:944:ARG:O	2:C:947:GLU:HG2	2.00	0.61
3:D:1040:MET:HE3	3:D:1046:ILE:HG21	1.82	0.61
3:D:1278:GLU:HA	3:D:1278:GLU:OE1	1.99	0.61
2:I:263:VAL:HG12	2:I:264:GLU:O	2.01	0.61
3:J:532:GLU:O	3:J:536:LEU:HG	2.01	0.61
5:L:123:ILE:HG22	5:L:127:ILE:HD11	1.82	0.61
5:L:302:PHE:HA	5:L:305:LEU:HD12	1.81	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:194:LEU:HD11	2:O:432:LEU:HD21	1.83	0.61
3:P:419:HIS:O	3:P:439:PRO:HD2	2.00	0.61
1:A:29:GLU:HB2	1:A:30:PRO:HA	1.83	0.60
2:C:1085:MET:CE	2:C:1085:MET:HA	2.31	0.60
2:C:353:VAL:O	2:C:355:PRO:HD3	2.00	0.60
3:D:1163:VAL:HG22	3:D:1177:ILE:HG23	1.83	0.60
3:D:363:LEU:HD21	3:D:618:VAL:HG13	1.78	0.60
5:F:452:ILE:CG2	5:F:457:ILE:HD11	2.31	0.60
5:F:583:THR:HG21	5:F:586:ARG:CG	2.31	0.60
2:I:1161:LEU:O	2:I:1164:PHE:HD2	1.84	0.60
3:J:1175:LEU:HD22	3:J:1196:LEU:CD1	2.31	0.60
3:J:698:MET:O	3:J:702:GLN:HB2	2.00	0.60
5:L:406:GLN:OE1	5:L:406:GLN:HA	2.00	0.60
2:O:788:SER:OG	2:O:796:LEU:HA	2.00	0.60
5:R:83:VAL:O	5:R:87:VAL:HG23	2.00	0.60
1:A:155:ALA:HA	1:A:172:LEU:CD2	2.30	0.60
1:B:193:GLU:O	1:B:194:GLN:CB	2.49	0.60
3:D:1262:ARG:HB3	3:D:1307:LEU:HD11	1.81	0.60
3:D:697:MET:HE3	3:D:738:ARG:HG2	1.82	0.60
1:H:191:ARG:HG3	1:H:196:THR:HG22	1.83	0.60
1:H:22:THR:O	1:H:207:THR:HG22	2.01	0.60
1:H:51:MET:HE3	1:H:219:ARG:HD2	1.82	0.60
2:I:1272:GLU:HG2	3:J:343:LEU:HB3	1.83	0.60
2:I:743:PRO:HG3	2:I:974:ARG:HH22	1.65	0.60
2:I:988:LYS:NZ	2:I:992:LEU:CD1	2.63	0.60
3:J:185:ILE:C	3:J:189:LEU:HD12	2.21	0.60
3:J:421:VAL:HG12	3:J:469:HIS:O	2.00	0.60
5:L:410:ILE:HA	5:L:413:MET:HG2	1.83	0.60
5:L:548:LEU:CD2	5:L:551:LEU:CD1	2.76	0.60
2:O:14:ASP:HA	2:O:1183:ALA:HB3	1.83	0.60
2:O:505:PHE:O	2:O:509:SER:HB3	2.01	0.60
3:P:139:LEU:O	3:P:141:PHE:CD2	2.53	0.60
5:L:434:TRP:CE2	6:4:36:DT:C7	2.84	0.60
2:C:1314:GLN:HG3	4:E:28:ARG:NH2	2.16	0.60
3:D:372:MET:O	3:D:376:LEU:HG	2.01	0.60
4:E:41:GLU:HG2	4:E:43:ASN:H	1.67	0.60
2:I:1031:ALA:O	2:I:1033:ARG:N	2.34	0.60
2:I:1086:PRO:CB	2:I:1212:LEU:HD22	2.30	0.60
2:I:296:VAL:HG12	2:I:297:VAL:N	2.17	0.60
2:I:782:VAL:HG21	2:I:792:GLY:HA2	1.83	0.60
3:J:22:ILE:HD11	3:J:1319:PHE:HE1	1.66	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:16:ILE:CG1	1:M:26:VAL:HG13	2.23	0.60
2:O:411:ARG:NH2	2:O:427:ASP:OD2	2.34	0.60
2:O:551:HIS:H	2:O:554:HIS:CE1	2.19	0.60
2:O:559:CYS:HB3	2:O:662:SER:HB3	1.83	0.60
2:O:1223:ARG:HD3	3:P:636:GLY:O	2.00	0.60
3:P:749:LYS:HG2	3:P:755:ILE:CG1	2.32	0.60
6:1:50:DT:C6	6:1:50:DT:C3'	2.84	0.60
6:4:23:DA:N6	7:5:39:DG:O6	2.35	0.60
2:C:1255:THR:O	2:C:1256:GLN:HB2	2.00	0.60
2:C:528:ARG:HD2	2:C:663:VAL:HG21	1.83	0.60
2:C:920:VAL:HG13	2:C:921:PRO:HD2	1.84	0.60
3:D:53:ARG:O	3:D:58:CYS:CB	2.49	0.60
5:F:597:LYS:O	5:F:600:HIS:HB2	2.01	0.60
3:J:1302:TYR:CD2	3:J:1302:TYR:O	2.54	0.60
3:P:201:LEU:HD22	3:P:217:LEU:HD22	1.81	0.60
3:P:739:GLN:NE2	3:P:744:ARG:HG3	2.17	0.60
5:R:91:ILE:O	5:R:91:ILE:HG22	2.02	0.60
7:8:22:DA:C1'	7:8:23:DT:P	2.87	0.60
2:C:1073:LYS:HZ2	8:3:15:G:P	2.23	0.60
3:D:480:ALA:HA	3:D:484:MET:HB2	1.83	0.60
3:D:589:TYR:O	3:D:591:ILE:N	2.34	0.60
1:G:233:ASP:O	1:G:235:ARG:N	2.34	0.60
2:I:1275:VAL:CB	2:I:1279:GLU:OE2	2.49	0.60
2:I:150:HIS:HE1	2:I:454:ARG:HG3	1.66	0.60
2:I:425:ILE:O	2:I:429:MET:HG3	2.02	0.60
2:I:668:ILE:HG21	2:I:671:LEU:HD13	1.83	0.60
3:J:252:LEU:O	3:J:252:LEU:HG	2.00	0.60
3:J:68:TYR:OH	3:J:94:GLN:CG	2.50	0.60
1:M:48:LEU:HD23	1:M:180:VAL:CB	2.30	0.60
1:M:69:SER:O	1:M:78:ILE:CG1	2.45	0.60
2:O:1142:ARG:HH22	2:O:1169:VAL:CG2	2.05	0.60
2:O:1333:LEU:HD23	3:P:327:LEU:HD13	1.82	0.60
3:P:1046:ILE:HD12	3:P:1059:LEU:HD22	1.83	0.60
3:P:473:THR:CB	3:P:475:GLU:OE1	2.41	0.60
3:P:512:TYR:CD1	3:P:545:HIS:HE1	2.20	0.60
7:8:15:DT:H2'	7:8:16:DC:C6	2.37	0.60
1:A:42:ALA:CB	1:B:38:THR:CG2	2.80	0.60
2:C:1098:LEU:HD22	2:C:1099:ASN:N	2.16	0.60
2:C:402:ARG:NH2	2:C:417:SER:O	2.28	0.60
3:D:182:ALA:CA	3:D:185:ILE:CD1	2.76	0.60
2:I:488:MET:HB3	2:I:489:PRO:CD	2.28	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1100:PHE:HB2	3:J:1193:TRP:HB2	1.82	0.60
3:J:27:PRO:HB3	3:J:241:VAL:HG23	1.83	0.60
3:J:492:SER:O	3:J:495:ASN:O	2.20	0.60
3:J:587:LEU:HD21	3:J:612:LEU:HG	1.83	0.60
3:J:886:VAL:CG1	3:J:1261:LEU:HD12	2.31	0.60
3:J:891:ASP:OD1	3:J:891:ASP:N	2.32	0.60
1:M:102:LEU:HD22	1:M:130:ILE:HD13	1.80	0.60
2:O:13:LYS:HB2	2:O:1149:TYR:CD1	2.36	0.60
2:O:52:ALA:CB	2:O:464:PHE:CE2	2.84	0.60
3:P:1258:ARG:HH11	3:P:1258:ARG:HG2	1.67	0.60
3:P:421:VAL:CG2	3:P:439:PRO:HG2	2.31	0.60
3:P:679:TYR:CE2	3:P:683:ILE:HD12	2.36	0.60
5:R:449:THR:OG1	5:R:504:PRO:HG3	2.01	0.60
6:7:34:DG:N2	7:8:30:DA:C2	2.69	0.60
2:C:92:TYR:HB3	2:C:137:VAL:HB	1.84	0.60
3:D:1293:GLU:OE2	3:D:1299:GLY:HA3	2.01	0.60
3:D:79:LYS:HZ1	5:F:569:THR:HG22	1.66	0.60
3:J:930:LEU:HD11	3:J:1246:VAL:HG21	1.84	0.60
3:J:584:PRO:CD	3:J:620:PHE:CE1	2.84	0.60
3:J:902:ASP:HB2	3:J:909:ILE:HB	1.83	0.60
3:J:967:VAL:HG22	3:J:973:LEU:HD12	1.82	0.60
1:M:61:ILE:CG1	1:M:142:MET:HB2	2.31	0.60
2:O:1061:GLN:CB	2:O:1062:PRO:HD2	2.32	0.60
2:O:33:ASP:O	2:O:37:LYS:HG3	2.02	0.60
2:O:748:ILE:HG13	2:O:970:GLY:HA3	1.83	0.60
2:O:888:THR:CG2	2:O:889:PRO:HD2	2.32	0.60
2:O:90:VAL:CG1	2:O:91:THR:N	2.65	0.60
3:P:785:ASP:HB3	3:P:935:PHE:CE2	2.37	0.60
3:P:952:VAL:HG11	3:P:984:LEU:HD13	1.82	0.60
1:A:155:ALA:N	1:A:174:ASP:OD1	2.28	0.60
1:B:175:ALA:CB	1:B:177:TYR:CE2	2.84	0.60
2:C:34:SER:O	2:C:37:LYS:HB2	2.02	0.60
2:C:839:VAL:O	2:C:886:LYS:HE2	2.01	0.60
3:D:1120:THR:OG1	3:D:1123:ARG:NH2	2.34	0.60
3:D:1306:LEU:HD12	3:D:1307:LEU:H	1.66	0.60
2:C:1257:GLN:NE2	3:D:345:LYS:CB	2.64	0.60
1:G:112:ALA:O	1:G:115:ILE:HD12	2.01	0.60
2:O:1230:MET:SD	2:O:1232:MET:CE	2.90	0.60
2:O:194:LEU:HD11	2:O:432:LEU:CD2	2.32	0.60
2:O:685:MET:CE	2:O:1073:LYS:HB3	2.31	0.60
2:O:1107:MET:HG2	3:P:740:LEU:HD21	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:98:VAL:HG21	6:1:44:DG:N2	2.16	0.60
2:C:1085:MET:HE2	2:C:1085:MET:HA	1.83	0.60
2:C:1184:THR:O	2:C:1184:THR:CG2	2.50	0.60
3:D:1175:LEU:O	3:D:1188:GLU:N	2.30	0.60
3:D:137:ARG:NH1	3:D:142:GLU:OE2	2.34	0.60
3:D:502:PRO:CG	3:D:601:ILE:HD13	2.32	0.60
3:D:871:LEU:O	3:D:874:GLU:HB2	2.01	0.60
1:G:49:SER:HB2	1:H:33:ARG:HH22	1.67	0.60
2:I:1212:LEU:HB3	2:I:1221:PHE:CD2	2.36	0.60
3:J:1165:PHE:CD2	3:J:1175:LEU:HD13	2.37	0.60
3:J:53:ARG:O	3:J:58:CYS:SG	2.60	0.60
1:M:58:GLU:HG2	1:M:172:LEU:CD1	2.32	0.60
2:O:1056:VAL:HG11	2:O:1058:ARG:HG3	1.84	0.60
2:O:144:VAL:CG2	2:O:515:MET:SD	2.90	0.60
2:O:559:CYS:HB2	2:O:662:SER:HB3	1.84	0.60
2:O:73:TYR:HB3	2:O:98:VAL:HG22	1.83	0.60
1:A:35:PHE:HE2	1:B:50:SER:OG	1.84	0.60
2:C:46:GLN:O	2:C:46:GLN:HG3	2.02	0.60
3:D:999:TYR:HB3	3:D:1025:MET:HE2	1.84	0.60
3:D:130:MET:HG2	3:D:135:ILE:CD1	2.31	0.60
3:D:210:SER:HB3	3:D:213:LYS:HD2	1.84	0.60
3:D:836:ARG:HD3	3:D:873:GLU:OE2	2.02	0.60
1:G:97:GLU:HG3	1:G:147:GLN:HG2	1.84	0.60
2:I:1269:ARG:CG	3:J:345:LYS:O	2.50	0.60
2:I:9:LYS:HG2	2:I:1171:ARG:CD	2.32	0.60
3:J:42:GLU:CD	5:L:451:ARG:HG2	2.21	0.60
5:L:452:ILE:CG2	5:L:456:MET:CB	2.80	0.60
1:M:38:THR:HG21	1:N:46:ILE:HD11	1.83	0.60
2:O:340:ASP:OD2	3:P:1044:GLN:NE2	2.22	0.60
3:P:1173:ARG:HB2	3:P:1190:ILE:HB	1.84	0.60
3:P:925:GLU:N	3:P:926:PRO:HD3	2.17	0.60
1:A:61:ILE:HB	1:A:64:VAL:HB	1.83	0.59
2:C:523:GLU:O	2:C:527:LYS:HG3	2.01	0.59
3:D:1155:ILE:N	3:D:1211:SER:OG	2.28	0.59
3:D:886:VAL:HA	3:D:1258:ARG:HD2	1.82	0.59
3:D:343:LEU:CD2	3:D:1351:VAL:HG11	2.32	0.59
3:D:53:ARG:O	3:D:58:CYS:SG	2.60	0.59
5:F:126:GLY:O	5:F:130:VAL:HG23	2.02	0.59
1:G:24:ALA:HB3	1:G:213:PRO:CB	2.31	0.59
2:I:82:VAL:CG2	2:I:83:GLN:N	2.65	0.59
3:J:1251:LYS:O	3:J:1255:VAL:HG23	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1280:VAL:CG1	3:J:1281:GLU:H	2.14	0.59
3:J:421:VAL:CG1	3:J:422:LEU:H	2.11	0.59
3:J:608:CYS:SG	3:J:617:THR:CG2	2.77	0.59
1:M:39:LEU:N	1:M:39:LEU:CD2	2.59	0.59
1:M:58:GLU:HB2	1:M:145:LYS:HB3	1.82	0.59
2:O:823:VAL:CG1	2:O:1059:ARG:CZ	2.73	0.59
2:O:1068:GLY:CA	2:O:1232:MET:CE	2.80	0.59
3:P:220:ARG:HA	3:P:223:LEU:HD12	1.83	0.59
5:R:135:ALA:CB	5:R:256:PHE:HB3	2.23	0.59
5:R:453:PRO:O	5:R:456:MET:HB3	2.02	0.59
1:B:88:LEU:HD13	1:B:128:HIS:CG	2.36	0.59
1:B:79:LEU:O	1:B:83:LEU:HD23	2.02	0.59
1:B:88:LEU:HD21	1:B:128:HIS:CD2	2.37	0.59
2:C:1161:LEU:HD11	2:C:1164:PHE:HB2	1.83	0.59
2:C:1287:LEU:CG	2:C:1288:GLN:N	2.61	0.59
2:C:525:THR:CG2	2:C:526:HIS:N	2.65	0.59
2:C:521:LEU:HD21	2:C:686:GLN:CB	2.31	0.59
1:H:112:ALA:HB3	1:H:126:PRO:HA	1.83	0.59
3:J:209:ASN:ND2	3:J:214:ARG:HD3	2.08	0.59
5:L:153:ALA:O	5:L:155:GLU:N	2.35	0.59
2:O:1333:LEU:HD21	3:P:327:LEU:HB3	1.83	0.59
2:O:251:ALA:O	2:O:266:GLY:HA2	2.02	0.59
2:O:698:PRO:CA	2:O:1231:TYR:CE1	2.83	0.59
2:O:726:TYR:H	2:O:733:VAL:HG22	1.67	0.59
2:O:748:ILE:HD12	2:O:966:ILE:O	2.01	0.59
2:O:810:TYR:HB3	2:O:817:LEU:HG	1.83	0.59
3:P:30:ILE:HA	3:P:33:TRP:HE3	1.65	0.59
3:P:643:ASP:O	3:P:720:ASN:ND2	2.35	0.59
5:R:583:THR:HG22	5:R:586:ARG:HB3	1.80	0.59
5:F:386:LEU:HB2	6:1:41:DT:C2	2.37	0.59
1:A:44:ARG:HA	1:A:47:LEU:HD12	1.83	0.59
2:C:277:LEU:HD12	2:C:282:VAL:HG21	1.83	0.59
2:C:787:PRO:HG2	2:C:788:SER:H	1.67	0.59
3:D:37:GLU:C	3:D:37:GLU:OE1	2.40	0.59
3:D:510:LEU:CD2	3:D:579:LEU:HD13	2.32	0.59
3:D:673:VAL:HG13	3:D:678:ARG:HB2	1.83	0.59
1:G:82:LEU:HA	1:G:85:LEU:HD12	1.85	0.59
2:I:1119:MET:HE1	2:I:1208:GLY:HA2	1.83	0.59
3:J:320:ASN:CG	3:J:321:LYS:H	2.05	0.59
5:L:454:VAL:N	5:L:455:HIS:HD2	2.00	0.59
2:O:811:ASN:HB2	2:O:1099:ASN:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1237:HIS:ND1	2:O:1242:LYS:CE	2.64	0.59
2:O:1243:MET:HG3	3:P:372:MET:HE2	1.84	0.59
2:O:888:THR:HB	2:O:914:LYS:HD2	1.83	0.59
3:P:591:ILE:HD13	3:P:604:MET:HG2	1.84	0.59
3:P:251:PRO:HD2	5:R:507:MET:SD	2.43	0.59
6:1:50:DT:H5'	6:1:51:DC:C6	2.36	0.59
7:5:42:DG:H2"	7:5:43:DA:OP2	2.01	0.59
7:5:45:DG:H2"	7:5:46:DT:H5'	1.84	0.59
2:C:1109:ILE:CG1	3:D:740:LEU:HD22	2.31	0.59
2:C:1309:VAL:HG13	3:D:383:GLY:HA2	1.84	0.59
3:D:1270:GLY:HA2	3:D:1298:VAL:O	2.02	0.59
3:D:79:LYS:HE2	5:F:569:THR:HB	1.83	0.59
2:I:495:ALA:O	2:I:498:ILE:HB	2.03	0.59
2:I:838:CYS:O	2:I:1049:ILE:CG2	2.50	0.59
2:I:888:THR:O	2:I:913:VAL:HG13	2.02	0.59
3:J:1237:VAL:HG12	3:J:1241:TYR:HE2	1.68	0.59
3:J:289:ASP:HA	3:J:292:VAL:CG2	2.33	0.59
3:J:514:THR:HB	3:J:595:ALA:HA	1.84	0.59
3:J:518:VAL:O	3:J:520:ALA:N	2.36	0.59
3:J:843:VAL:HG12	3:J:883:ARG:CB	2.17	0.59
5:L:102:MET:CE	5:L:105:MET:CE	2.81	0.59
5:L:353:LEU:HB3	5:L:358:VAL:CG2	2.32	0.59
5:L:514:ASP:O	5:L:516:ASP:N	2.35	0.59
2:O:911:SER:O	2:O:913:VAL:N	2.35	0.59
3:P:614:LEU:O	3:P:618:VAL:HG23	2.03	0.59
2:C:498:ILE:O	2:C:502:VAL:HG23	2.01	0.59
3:D:318:GLY:CA	3:D:324:LEU:HD21	2.29	0.59
3:D:701:LEU:HD21	3:D:720:ASN:HD22	1.65	0.59
3:D:894:VAL:HG23	3:D:895:CYS:O	2.02	0.59
4:E:76:GLU:O	4:E:80:LEU:HG	2.02	0.59
5:F:387:VAL:HG12	5:F:388:ILE:N	2.15	0.59
1:G:140:ILE:HD11	1:G:142:MET:HE3	1.84	0.59
2:I:797:GLY:HA3	2:I:1233:LEU:CD2	2.31	0.59
3:J:113:HIS:CD2	3:J:115:TRP:HB2	2.38	0.59
3:J:1179:PRO:HB2	3:J:1182:GLY:O	2.02	0.59
3:J:425:ARG:HD2	3:J:457:TYR:HB3	1.84	0.59
3:J:553:THR:CG2	3:J:565:ALA:HB1	2.33	0.59
1:M:57:THR:O	1:M:172:LEU:HD12	2.02	0.59
1:N:79:LEU:HA	1:N:82:LEU:HD12	1.83	0.59
2:O:1104:PRO:HG3	3:P:725:MET:HE1	1.83	0.59
2:O:909:LYS:HE2	2:O:911:SER:HB3	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1339:LEU:HD13	3:P:17:PHE:CE1	2.36	0.59
5:F:461:ASN:HA	7:2:26:DT:C7	2.32	0.59
3:D:112:ALA:CA	3:D:238:ILE:CD1	2.48	0.59
3:D:1274:PHE:O	3:D:1275:LEU:HB2	2.02	0.59
3:D:366:CYS:SG	3:D:439:PRO:HA	2.43	0.59
3:D:697:MET:CE	3:D:738:ARG:HA	2.33	0.59
3:D:431:ARG:HH21	3:D:904:ALA:HB1	1.66	0.59
3:J:24:LEU:HD13	3:J:237:MET:HE3	1.84	0.59
3:J:749:LYS:HD2	3:J:753:SER:OG	2.03	0.59
5:L:84:LEU:CG	5:L:107:THR:CG2	2.80	0.59
1:M:100:LEU:HD13	1:M:115:ILE:HG21	1.83	0.59
2:O:802:VAL:CG1	2:O:803:ALA:N	2.65	0.59
3:P:272:VAL:HG21	3:P:306:LEU:HD23	1.83	0.59
3:P:452:LEU:HD23	3:P:452:LEU:N	2.16	0.59
3:P:474:LEU:HD13	4:Q:28:ARG:HG2	1.84	0.59
3:P:339:ARG:NH1	3:P:798:ARG:NH2	2.50	0.59
4:Q:39:VAL:CG1	4:Q:40:PRO:HD2	2.32	0.59
6:7:49:DG:H2'	6:7:50:DT:H1'	1.85	0.59
1:A:224:LEU:HG	1:A:225:ALA:N	2.05	0.59
1:B:190:ALA:HB2	1:B:200:LYS:CG	2.29	0.59
3:D:1167:LYS:O	3:D:1174:ARG:CD	2.49	0.59
3:D:1218:HIS:O	3:D:1221:LEU:HB3	2.02	0.59
3:D:599:LYS:HG3	3:D:600:ALA:H	1.67	0.59
2:I:672:GLU:HG3	2:I:1187:PHE:HA	1.85	0.59
2:I:92:TYR:HB2	2:I:137:VAL:HB	1.84	0.59
3:J:110:PRO:HB2	3:J:238:ILE:HG21	1.84	0.59
3:J:296:LYS:O	3:J:299:LEU:HB3	2.03	0.59
3:J:366:CYS:SG	3:J:439:PRO:HA	2.43	0.59
3:J:601:ILE:HG23	3:J:605:LEU:HD21	1.85	0.59
2:O:526:HIS:HA	2:O:529:ARG:HD3	1.84	0.59
2:O:559:CYS:HB2	2:O:662:SER:N	2.17	0.59
3:P:424:ASN:C	3:P:466:MET:HE2	2.23	0.59
3:P:423:LEU:HD12	3:P:437:PHE:CD1	2.37	0.59
7:2:4:DC:C4	7:2:5:DC:N4	2.70	0.59
3:D:234:PRO:O	3:D:237:MET:CG	2.50	0.59
2:I:15:PHE:CD2	2:I:1182:ILE:HG23	2.36	0.59
2:I:255:ILE:O	2:I:255:ILE:HG22	2.02	0.59
3:J:835:LEU:HD12	3:J:839:VAL:CG2	2.33	0.59
2:O:1212:LEU:HB3	2:O:1221:PHE:CD2	2.38	0.59
2:O:232:ILE:HG12	2:O:237:LEU:HD22	1.84	0.59
3:P:117:LEU:HD21	3:P:118:LYS:HE2	1.85	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:403:ARG:O	3:P:404:GLU:HB2	2.01	0.59
6:4:50:DT:C3'	6:4:50:DT:C6	2.85	0.59
1:A:192:VAL:HG21	1:A:198:LEU:HB2	1.84	0.59
1:A:41:ASN:ND2	2:C:1217:THR:C	2.56	0.59
3:D:826:ILE:HG22	3:D:826:ILE:O	2.02	0.59
5:F:345:GLN:O	5:F:348:GLU:HB2	2.03	0.59
2:I:1048:LYS:C	2:I:1049:ILE:HG13	2.22	0.59
2:I:936:ARG:HG2	2:I:937:ASP:H	1.67	0.59
3:J:1271:SER:OG	3:J:1297:LYS:HD2	2.02	0.59
3:J:483:LEU:HD23	4:K:16:ARG:HE	1.68	0.59
4:K:60:ASN:HB3	4:K:63:ILE:CD1	2.27	0.59
5:L:412:LEU:HD11	5:L:431:ALA:HB1	1.84	0.59
1:M:158:ARG:HB3	1:M:172:LEU:HD21	1.85	0.59
1:M:51:MET:CE	1:M:211:ILE:HG13	2.32	0.59
3:P:1226:VAL:O	3:P:1229:VAL:CG1	2.51	0.59
5:R:137:TYR:HE1	5:R:353:LEU:CD1	2.14	0.59
5:R:370:ALA:HB1	5:R:373:ARG:NH2	2.18	0.59
5:R:394:TYR:C	5:R:396:ASN:H	2.06	0.59
6:4:54:DA:H2"	6:4:55:DC:C6	2.37	0.59
7:5:4:DC:N3	7:5:5:DC:N4	2.51	0.59
2:O:564:PRO:CG	8:9:13:GTP:O2A	2.51	0.59
2:C:1087:TYR:CE2	2:C:1213:TYR:HB2	2.37	0.59
2:C:1284:ALA:HB2	3:D:1361:THR:HB	1.84	0.59
2:I:163:LYS:CG	2:I:164:THR:H	2.14	0.59
2:I:170:VAL:HG23	3:J:1066:GLU:HA	1.85	0.59
3:J:342:LEU:CD2	3:J:1352:ILE:HG23	2.22	0.59
1:M:56:VAL:HA	1:M:146:VAL:HG22	1.84	0.59
1:N:44:ARG:O	1:N:47:LEU:HB2	2.03	0.59
2:O:1278:LEU:HD22	2:O:1286:THR:OG1	2.01	0.59
3:P:1348:LYS:HA	3:P:1351:VAL:HG23	1.85	0.59
3:P:242:LEU:HD12	3:P:243:PRO:CD	2.15	0.59
7:8:24:DT:H2"	7:8:25:DA:OP1	2.02	0.58
2:C:227:LYS:O	2:C:245:ARG:NH2	2.36	0.58
2:C:622:ASN:HB3	2:C:630:VAL:HB	1.84	0.58
2:C:925:SER:OG	2:C:926:GLY:N	2.34	0.58
5:F:595:LEU:O	5:F:599:ARG:HG3	2.03	0.58
1:G:102:LEU:HD12	1:G:114:ASP:O	2.03	0.58
1:G:215:GLU:HG2	1:G:219:ARG:NH2	2.18	0.58
2:I:514:PHE:CE2	7:5:19:DA:O4'	2.56	0.58
3:J:899:TYR:CD1	3:J:915:ILE:HG21	2.38	0.58
5:L:477:GLU:OE2	5:L:478:PRO:HD2	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:536:LEU:HB3	3:P:542:ALA:HB3	1.85	0.58
6:4:47:DC:C4	6:4:48:DA:N6	2.71	0.58
6:7:53:DG:H2"	6:7:54:DA:H5'	1.83	0.58
1:B:61:ILE:HD12	1:B:64:VAL:CG1	2.33	0.58
1:B:67:GLU:HG3	1:B:68:TYR:CE2	2.37	0.58
2:C:835:GLU:O	2:C:836:LEU:HD23	2.01	0.58
3:D:1318:SER:OG	3:D:1321:SER:CB	2.51	0.58
3:D:795:TYR:CZ	7:2:11:DA:H2"	2.37	0.58
3:D:923:ILE:HD11	3:D:1252:HIS:HB3	1.85	0.58
5:F:452:ILE:CG2	5:F:456:MET:HB3	2.32	0.58
5:F:457:ILE:CA	5:F:460:ILE:HD12	2.20	0.58
2:I:1088:ASP:N	2:I:1088:ASP:OD1	2.36	0.58
2:I:672:GLU:CG	2:I:1187:PHE:HA	2.33	0.58
2:I:870:ILE:HG21	2:I:944:ARG:NE	2.18	0.58
2:I:92:TYR:CB	2:I:137:VAL:HB	2.33	0.58
3:J:553:THR:HG21	3:J:565:ALA:HB1	1.84	0.58
2:O:859:GLU:HA	2:O:862:LEU:HD12	1.85	0.58
3:P:147:ILE:HG13	3:P:178:ALA:HA	1.85	0.58
6:1:26:DT:H2"	6:1:27:DC:OP2	2.04	0.58
1:B:76:GLU:HG3	1:B:80:GLU:CD	2.22	0.58
2:C:429:MET:O	2:C:432:LEU:HB3	2.03	0.58
2:C:448:LEU:CD1	2:C:553:THR:HB	2.33	0.58
2:C:794:LEU:HG	2:C:796:LEU:HG	1.85	0.58
2:I:452:ARG:NH2	2:I:458:GLU:OE2	2.37	0.58
3:J:931:THR:HG23	3:J:1134:ILE:CB	2.34	0.58
1:N:156:SER:C	1:N:159:ILE:HG22	2.24	0.58
2:O:374:GLU:N	5:R:99:ARG:NH1	2.52	0.58
3:P:1031:VAL:CG1	3:P:1091:PRO:HD3	2.32	0.58
3:P:997:VAL:CG1	3:P:1001:ALA:HB3	2.33	0.58
2:I:183:TRP:CZ3	6:4:47:DC:N4	2.71	0.58
2:C:1066:MET:CE	2:C:1234:LYS:HA	2.33	0.58
3:D:797:THR:HG23	3:D:924:GLY:CA	2.33	0.58
5:F:464:ASN:HB2	7:2:26:DT:C7	2.33	0.58
1:G:69:SER:O	1:G:78:ILE:CD1	2.51	0.58
2:I:832:HIS:CD2	2:I:1058:ARG:HD2	2.39	0.58
3:J:423:LEU:CA	3:J:466:MET:HE1	2.33	0.58
5:L:167:ASP:N	5:L:168:PRO:HD3	2.18	0.58
5:L:96:ASP:HB3	5:L:99:ARG:HG3	1.83	0.58
1:N:169:GLY:O	1:N:171:LEU:HG	2.02	0.58
1:N:208:ASN:O	1:N:210:THR:N	2.33	0.58
2:O:1161:LEU:O	2:O:1161:LEU:HD12	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:178:PRO:HD3	2:O:395:TYR:OH	2.03	0.58
2:O:406:ASN:HB3	2:O:411:ARG:HB2	1.85	0.58
2:O:575:LEU:HG	2:O:576:SER:O	2.02	0.58
3:P:1190:ILE:HD13	3:P:1196:LEU:CD2	2.33	0.58
2:C:434:ASP:O	2:C:439:LYS:HB2	2.03	0.58
2:C:934:PHE:O	2:C:1048:LYS:HG3	2.03	0.58
3:D:109:SER:HB2	3:D:296:LYS:CE	2.33	0.58
3:D:573:THR:HG23	3:D:576:ARG:HD2	1.85	0.58
3:D:615:LYS:N	3:D:616:PRO:CD	2.65	0.58
5:F:341:LEU:O	5:F:341:LEU:HD23	2.03	0.58
1:H:75:GLN:CD	1:H:132:HIS:HB3	2.23	0.58
5:L:276:MET:SD	5:L:279:ARG:HD3	2.43	0.58
5:L:386:LEU:HD13	6:4:41:DT:C1'	2.33	0.58
2:O:1113:LEU:HD21	3:P:641:ILE:HD11	1.84	0.58
2:O:161:LYS:HA	2:O:161:LYS:HE3	1.83	0.58
3:P:807:LEU:HD23	3:P:1255:VAL:CG1	2.34	0.58
4:Q:45:LYS:O	4:Q:49:ILE:HG13	2.03	0.58
3:J:458:ASN:ND2	8:6:16:U:O3'	2.36	0.58
2:C:1289:GLU:OE2	3:D:473:THR:N	2.37	0.58
2:C:1314:GLN:HG2	2:C:1315:MET:N	2.18	0.58
2:C:1323:PHE:HE1	2:C:1327:LEU:CD2	2.08	0.58
2:C:165:HIS:CE1	2:C:190:PRO:HB3	2.39	0.58
2:C:367:TYR:CZ	2:C:380:ALA:HB1	2.38	0.58
2:C:494:ASN:HD21	2:C:496:LYS:HB2	1.68	0.58
3:D:139:LEU:HA	3:D:181:GLY:HA2	1.85	0.58
2:I:201:ARG:HB2	2:I:369:MET:CE	2.21	0.58
2:I:60:GLN:HG2	2:I:67:GLU:OE1	2.03	0.58
2:I:1269:ARG:HA	3:J:346:ARG:HA	1.85	0.58
2:O:185:ASP:C	2:O:186:PHE:CD2	2.76	0.58
2:O:167:SER:CB	3:P:1064:SER:HB2	2.34	0.58
3:P:1318:SER:OG	3:P:1321:SER:HB3	2.03	0.58
6:4:51:DC:H3'	6:4:52:DT:P	2.43	0.58
7:5:45:DG:C2	7:5:46:DT:N3	2.72	0.58
1:A:35:PHE:HB3	1:A:39:LEU:HD11	1.85	0.58
2:C:1281:TYR:CE1	3:D:431:ARG:HG3	2.39	0.58
2:C:1292:THR:CG2	2:C:1293:VAL:N	2.64	0.58
2:C:346:TYR:OH	2:C:436:ARG:HG3	2.04	0.58
2:C:87:ILE:HG22	2:C:934:PHE:CZ	2.37	0.58
5:F:395:THR:HG22	5:F:404:LEU:CD1	2.34	0.58
2:I:1268:GLN:HA	7:5:16:DC:OP1	2.03	0.58
2:I:1270:PHE:HB2	3:J:347:VAL:CG2	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:296:VAL:HG13	2:I:315:MET:O	2.04	0.58
3:J:483:LEU:HD11	4:K:17:PHE:CD1	2.37	0.58
5:L:288:MET:SD	5:L:299:LYS:NZ	2.68	0.58
2:O:188:PHE:CE2	2:O:432:LEU:CD1	2.86	0.58
2:O:228:VAL:HG23	2:O:335:THR:O	2.03	0.58
2:O:347:ILE:CD1	2:O:433:ILE:HD11	2.33	0.58
3:P:1229:VAL:HG13	3:P:1230:THR:N	2.17	0.58
6:1:56:DG:C2	7:2:8:DG:C2	2.92	0.58
1:A:184:ALA:HB2	2:C:1091:GLY:CA	2.30	0.58
2:C:369:MET:HG3	2:C:370:MET:N	2.18	0.58
2:C:870:ILE:HG13	2:C:944:ARG:CG	2.29	0.58
3:D:1286:LYS:O	3:D:1290:ARG:HG2	2.03	0.58
3:D:1318:SER:OG	3:D:1321:SER:HB3	2.04	0.58
1:H:60:GLU:HB2	1:H:170:ARG:HD2	1.85	0.58
2:I:1088:ASP:OD1	2:I:1092:THR:O	2.21	0.58
2:I:160:ASP:OD2	2:I:163:LYS:HD2	2.03	0.58
3:J:104:HIS:C	3:J:105:ILE:HG13	2.24	0.58
2:I:168:GLY:C	3:J:1065:ALA:HA	2.23	0.58
3:J:672:LEU:O	3:J:673:VAL:HG22	2.04	0.58
3:J:843:VAL:HG21	3:J:897:HIS:CB	2.34	0.58
2:O:1104:PRO:HG3	3:P:725:MET:HE3	1.83	0.58
2:O:1332:SER:O	3:P:243:PRO:HG2	2.04	0.58
2:O:331:LYS:O	2:O:332:ARG:CG	2.44	0.58
2:O:690:VAL:HG12	2:O:691:PRO:HD2	1.85	0.58
2:O:771:VAL:CG2	2:O:783:LEU:HD22	2.33	0.58
3:P:1005:LYS:HE3	3:P:1015:GLU:OE1	2.04	0.58
3:P:1051:ASP:HB2	3:P:1056:LEU:O	2.04	0.58
3:P:1274:PHE:O	3:P:1275:LEU:CB	2.52	0.58
3:P:1318:SER:OG	3:P:1321:SER:CB	2.51	0.58
3:P:272:VAL:HG21	3:P:306:LEU:CD2	2.34	0.58
3:P:341:ASN:OD1	3:P:341:ASN:N	2.36	0.58
3:P:839:VAL:O	3:P:839:VAL:HG12	2.03	0.58
5:R:166:VAL:HG11	5:R:212:ILE:HG13	1.86	0.58
6:7:58:DG:C2	7:8:6:DG:N2	2.72	0.58
1:B:47:LEU:HD13	1:B:183:ILE:HD12	1.84	0.58
2:C:237:LEU:CD1	2:C:292:ILE:HD12	2.34	0.58
2:C:255:ILE:HG12	2:C:285:ILE:CG2	2.33	0.58
2:C:389:PHE:HB2	2:C:390:PHE:CE2	2.38	0.58
2:C:452:ARG:O	2:C:453:ILE:HD13	2.04	0.58
2:C:807:TRP:CD1	2:C:817:LEU:CD1	2.86	0.58
3:D:378:LYS:HA	3:D:381:ILE:CD1	2.25	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:297:MET:SD	5:F:298:PRO:HD2	2.44	0.58
1:H:83:LEU:HD13	1:H:86:LYS:HD2	1.84	0.58
2:I:565:GLU:HG3	2:I:566:GLY:N	2.18	0.58
3:J:369:PRO:HB3	3:J:445:LYS:HA	1.86	0.58
1:H:83:LEU:HD11	3:J:526:VAL:HB	1.85	0.58
3:J:591:ILE:CG2	3:J:604:MET:HG2	2.34	0.58
5:L:491:GLU:OE2	5:L:495:ARG:NH2	2.36	0.58
1:M:231:PHE:CE1	1:N:28:LEU:HG	2.39	0.58
2:O:1231:TYR:O	2:O:1232:MET:CE	2.51	0.58
2:O:130:MET:SD	2:O:134:GLY:HA2	2.44	0.58
2:O:725:GLN:HB2	2:O:735:LYS:HG3	1.86	0.58
2:O:887:VAL:HB	2:O:913:VAL:HG13	1.86	0.58
3:P:555:TYR:CB	3:P:563:LEU:HD22	2.22	0.58
4:Q:13:ILE:HG13	4:Q:54:ILE:HG21	1.86	0.58
2:I:514:PHE:CZ	7:5:19:DA:O4'	2.57	0.58
3:D:1082:ASP:N	3:D:1086:ASN:O	2.37	0.58
3:D:146:VAL:CG1	3:D:155:GLU:O	2.52	0.58
3:D:703:THR:O	3:D:718:SER:HB3	2.04	0.58
1:G:102:LEU:CD1	1:G:114:ASP:O	2.52	0.58
2:I:1186:VAL:O	2:I:1187:PHE:HB2	2.03	0.58
2:I:1275:VAL:C	2:I:1279:GLU:OE2	2.42	0.58
2:I:145:ILE:HD11	2:I:506:PHE:CD1	2.38	0.58
3:J:289:ASP:HA	3:J:292:VAL:HG23	1.85	0.58
2:O:227:LYS:NZ	2:O:334:GLU:OE1	2.37	0.58
3:P:1319:PHE:CD2	3:P:1340:LYS:HD2	2.39	0.58
3:P:471:PRO:CB	3:P:476:ALA:HB1	2.33	0.58
5:R:407:GLU:OE2	5:R:442:SER:CB	2.52	0.58
2:O:371:ARG:CA	5:R:99:ARG:HH21	2.15	0.58
2:C:1335:ILE:CD1	2:C:1335:ILE:N	2.65	0.57
2:C:56:VAL:HG12	2:C:59:ILE:CD1	2.33	0.57
2:C:758:ARG:HB2	2:C:833:ILE:HB	1.86	0.57
3:D:203:GLU:O	3:D:206:ASN:HB3	2.03	0.57
3:D:502:PRO:CB	3:D:601:ILE:HD13	2.34	0.57
3:D:839:VAL:O	3:D:864:LEU:HD12	2.04	0.57
1:G:59:VAL:CG2	1:G:144:ILE:HG23	2.20	0.57
2:I:539:THR:HG22	2:I:540:ARG:N	2.19	0.57
2:I:933:VAL:HG13	2:I:1050:VAL:HG22	1.85	0.57
3:J:423:LEU:CB	3:J:466:MET:CE	2.78	0.57
3:J:497:GLU:HB3	3:J:498:PRO:HD2	1.85	0.57
4:K:13:ILE:CD1	4:K:19:LEU:HA	2.34	0.57
1:N:30:PRO:O	1:N:31:LEU:HG	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:167:SER:CA	3:P:1064:SER:HB2	2.33	0.57
2:O:804:PHE:CE1	2:O:1103:VAL:HG21	2.39	0.57
3:P:116:PHE:HB2	3:P:124:ILE:HD11	1.85	0.57
3:P:1145:PHE:O	3:P:1309:ILE:CG1	2.52	0.57
3:P:1369:ARG:HG2	3:P:1372:ARG:HH11	1.68	0.57
5:R:407:GLU:HG2	5:R:442:SER:OG	2.04	0.57
5:R:407:GLU:HG2	5:R:442:SER:HB3	1.86	0.57
6:4:21:DC:H2"	6:4:22:DC:C5	2.38	0.57
1:B:88:LEU:HD13	1:B:128:HIS:ND1	2.19	0.57
1:B:76:GLU:HG3	1:B:80:GLU:OE2	2.04	0.57
2:C:525:THR:HG23	2:C:526:HIS:N	2.19	0.57
2:C:688:GLN:HE22	8:3:14:A:P	2.27	0.57
2:C:694:ARG:O	2:C:798:GLN:NE2	2.38	0.57
3:D:1287:ILE:O	3:D:1291:GLU:HG3	2.04	0.57
3:D:885:VAL:HG12	3:D:886:VAL:CA	2.34	0.57
3:D:918:ILE:O	3:D:922:SER:OG	2.22	0.57
2:I:1061:GLN:NE2	2:I:1240:ASP:OD1	2.36	0.57
2:I:1086:PRO:HB3	2:I:1212:LEU:HD22	1.86	0.57
2:I:1184:THR:O	2:I:1184:THR:HG23	2.04	0.57
2:I:1210:ILE:CG2	2:I:1211:ARG:H	2.16	0.57
2:I:309:LEU:N	2:I:309:LEU:HD23	2.19	0.57
2:I:298:ALA:HB2	2:I:336:LEU:CD2	2.34	0.57
2:I:447:HIS:HB3	2:I:450:ASN:ND2	2.19	0.57
2:I:598:VAL:HG13	2:I:627:GLY:HA2	1.86	0.57
2:O:1289:GLU:N	2:O:1315:MET:HE2	2.19	0.57
2:O:186:PHE:N	2:O:186:PHE:HD2	2.02	0.57
5:R:428:SER:HB2	6:7:40:DA:OP2	2.03	0.57
1:B:57:THR:CG2	1:B:158:ARG:HH12	2.18	0.57
2:C:1292:THR:HG23	2:C:1293:VAL:HG13	1.85	0.57
2:C:282:VAL:CG1	2:C:285:ILE:HG13	2.33	0.57
2:C:82:VAL:CG2	2:C:83:GLN:H	2.18	0.57
2:C:1269:ARG:HH12	3:D:340:GLN:HA	1.68	0.57
3:D:492:SER:O	3:D:495:ASN:O	2.21	0.57
3:D:806:ASP:OD1	3:D:1346:GLY:CA	2.40	0.57
2:I:104:ILE:HD13	2:I:484:LEU:O	2.03	0.57
2:I:1283:ALA:HA	3:J:479:GLU:OE1	2.05	0.57
2:I:208:ILE:HG12	2:I:362:ALA:HB1	1.86	0.57
2:I:565:GLU:CG	2:I:566:GLY:N	2.67	0.57
3:J:511:TYR:CD1	3:J:596:LEU:O	2.56	0.57
3:J:796:LEU:O	3:J:800:LEU:HG	2.04	0.57
3:J:931:THR:CG2	3:J:1134:ILE:HB	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:410:ILE:O	5:L:413:MET:HB2	2.04	0.57
1:N:88:LEU:HD11	1:N:128:HIS:CE1	2.35	0.57
2:O:1337:ILE:HD11	3:P:20:ILE:CG2	2.34	0.57
3:P:261:ALA:CB	5:R:519:LEU:HD23	2.34	0.57
5:R:574:GLU:HB3	5:R:578:LYS:NZ	2.19	0.57
6:4:47:DC:O2	6:4:48:DA:C2	2.57	0.57
7:8:37:DA:H2"	7:8:38:DG:OP2	2.04	0.57
1:A:47:LEU:HD11	1:A:183:ILE:HD12	1.82	0.57
2:C:169:LYS:O	2:C:171:LEU:HG	2.05	0.57
2:C:259:GLY:CA	2:I:120:GLN:HB2	2.34	0.57
2:C:449:GLY:O	2:C:586:PHE:HE1	1.88	0.57
3:D:115:TRP:CZ3	3:D:1329:THR:HA	2.39	0.57
3:D:253:VAL:HB	3:D:254:PRO:HD2	1.85	0.57
5:F:262:VAL:CG1	5:F:263:PRO:HD2	2.34	0.57
5:F:98:VAL:HG22	5:F:402:LEU:CD2	2.35	0.57
2:I:455:SER:O	2:I:459:MET:HG3	2.04	0.57
3:J:1146:GLU:CD	3:J:1309:ILE:HB	2.24	0.57
3:J:1217:PRO:HG2	3:J:1218:HIS:ND1	2.19	0.57
3:J:771:GLN:HA	3:J:774:ILE:HD11	1.80	0.57
3:J:786:THR:OG1	3:J:932:MET:HG3	2.04	0.57
4:K:7:GLN:O	4:K:11:GLU:HG3	2.05	0.57
4:K:78:ALA:O	4:K:81:GLN:HG2	2.04	0.57
5:L:387:VAL:HG23	5:L:412:LEU:HD23	1.86	0.57
1:M:43:LEU:O	1:M:47:LEU:CG	2.38	0.57
2:O:1211:ARG:HG3	2:O:1211:ARG:HH11	1.68	0.57
2:O:155:VAL:CG2	2:O:405:PHE:CD2	2.87	0.57
3:P:218:THR:HG22	3:P:222:LYS:CE	2.29	0.57
3:P:201:LEU:HB2	3:P:221:ILE:HD11	1.85	0.57
3:P:261:ALA:CB	5:R:519:LEU:CD2	2.82	0.57
2:O:1286:THR:CG2	3:P:479:GLU:OE2	2.52	0.57
2:C:901:LEU:O	2:C:905:ILE:HG13	2.04	0.57
2:C:673:HIS:ND1	3:D:763:PHE:O	2.34	0.57
4:E:20:VAL:C	4:E:21:LEU:HD23	2.25	0.57
5:F:137:TYR:CE2	5:F:139:GLU:HB2	2.40	0.57
5:F:137:TYR:CG	5:F:138:PRO:HD2	2.39	0.57
5:F:279:ARG:HH21	5:F:347:ILE:HG12	1.70	0.57
5:F:490:PRO:HG2	5:F:493:LYS:HB2	1.87	0.57
2:I:1103:VAL:HB	2:I:1104:PRO:HD3	1.86	0.57
2:I:335:THR:CG2	2:I:336:LEU:H	2.11	0.57
2:I:245:ARG:HD3	2:I:337:PHE:CE1	2.39	0.57
2:I:70:TYR:HA	2:I:100:LEU:HD23	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:798:GLN:HE22	2:I:827:ARG:HG2	1.69	0.57
1:M:61:ILE:HG12	1:M:142:MET:CB	2.35	0.57
2:O:8:LYS:HD3	2:O:1168:GLU:CD	2.24	0.57
2:O:1238:LEU:O	2:O:1242:LYS:HG3	2.04	0.57
2:O:454:ARG:HD3	2:O:459:MET:SD	2.45	0.57
3:P:1078:LEU:HG	3:P:1101:LEU:HD11	1.87	0.57
3:P:1167:LYS:NZ	3:P:1187:GLU:OE2	2.35	0.57
3:P:1199:PHE:O	3:P:1200:GLU:HB2	2.03	0.57
2:O:1326:LEU:HD22	3:P:342:LEU:HD13	1.86	0.57
2:C:112:GLY:C	2:C:114:VAL:N	2.56	0.57
2:C:1272:GLU:O	2:C:1275:VAL:HB	2.04	0.57
2:C:333:ILE:HG22	2:C:334:GLU:H	1.69	0.57
2:C:702:THR:HG22	2:C:1184:THR:O	2.03	0.57
1:A:66:HIS:CE1	2:C:929:ILE:HG13	2.39	0.57
3:D:185:ILE:O	3:D:189:LEU:CG	2.52	0.57
3:D:975:ILE:HD11	3:D:1003:LEU:HD11	1.86	0.57
3:D:282:LEU:CD2	5:F:410:ILE:HG12	2.31	0.57
5:F:585:GLU:HG3	7:2:47:DC:N4	2.17	0.57
2:I:402:ARG:NH2	2:I:417:SER:O	2.38	0.57
3:J:1109:LEU:HD22	3:J:1113:VAL:HG11	1.87	0.57
3:J:1029:THR:HG21	3:J:1121:LEU:HD11	1.86	0.57
4:K:22:VAL:HG22	4:K:61:ASN:ND2	2.19	0.57
2:O:184:LEU:HG	2:O:389:PHE:CE2	2.39	0.57
3:P:403:ARG:HD3	3:P:405:GLU:OE2	2.05	0.57
3:P:536:LEU:CD2	3:P:541:LEU:CB	2.82	0.57
3:P:665:GLN:O	3:P:668:PHE:HB3	2.04	0.57
3:P:918:ILE:O	3:P:922:SER:OG	2.23	0.57
5:R:520:GLY:HA2	5:R:523:ILE:HD11	1.86	0.57
2:O:374:GLU:CD	5:R:99:ARG:HD3	2.24	0.57
1:B:155:ALA:HB2	1:B:174:ASP:OD1	2.05	0.57
1:B:70:THR:HG23	1:B:70:THR:O	2.04	0.57
2:C:1322:SER:O	2:C:1325:VAL:HB	2.04	0.57
3:D:972:LYS:HE2	3:D:1002:VAL:HG11	1.87	0.57
3:D:1138:LEU:HD23	3:D:1139:PRO:CD	2.34	0.57
3:D:1331:VAL:O	3:D:1334:GLU:HB2	2.04	0.57
5:F:395:THR:HA	5:F:404:LEU:HD11	1.85	0.57
5:F:98:VAL:CG2	5:F:402:LEU:HD21	2.34	0.57
1:H:31:LEU:HD13	1:H:36:GLY:HA2	1.87	0.57
2:I:1276:TRP:HE1	3:J:1348:LYS:HE2	1.70	0.57
2:I:137:VAL:C	2:I:138:ILE:CD1	2.59	0.57
3:J:1105:ALA:O	3:J:1107:VAL:HG23	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1328:THR:HG22	3:J:1332:LEU:HD11	1.87	0.57
3:J:473:THR:CB	3:J:475:GLU:OE1	2.47	0.57
5:L:493:LYS:O	5:L:497:VAL:HG23	2.04	0.57
2:O:1283:ALA:HB1	3:P:479:GLU:CD	2.25	0.57
2:O:227:LYS:CE	2:O:334:GLU:OE1	2.52	0.57
3:P:968:ASN:HB3	3:P:1118:GLY:HA3	1.87	0.57
3:P:1259:GLN:OE1	3:P:1262:ARG:HD2	2.04	0.57
3:P:511:TYR:HE2	3:P:724:MET:HE3	1.70	0.57
5:R:295:CYS:O	5:R:296:LYS:CB	2.52	0.57
5:R:388:ILE:CG2	5:R:389:SER:N	2.67	0.57
2:C:1268:GLN:HA	7:2:16:DC:OP1	2.04	0.57
6:4:47:DC:C2	6:4:48:DA:C2	2.93	0.57
6:7:51:DC:C2'	6:7:52:DT:H5'	2.30	0.57
2:C:934:PHE:CB	2:C:1049:ILE:HD12	2.35	0.57
3:D:395:LYS:HA	3:D:398:LYS:HG2	1.87	0.57
3:D:849:LEU:HD13	3:D:850:LYS:H	1.67	0.57
1:G:57:THR:HG23	1:G:158:ARG:NH2	2.20	0.57
1:G:44:ARG:HG3	1:G:183:ILE:HG23	1.85	0.57
2:I:1294:LYS:HB3	3:J:347:VAL:HG12	1.87	0.57
3:J:138:VAL:HG21	3:J:145:VAL:HB	1.87	0.57
3:J:109:SER:HB2	3:J:296:LYS:HE2	1.86	0.57
3:J:601:ILE:O	3:J:605:LEU:CD2	2.53	0.57
5:L:604:SER:HB3	5:L:607:LEU:HB2	1.87	0.57
2:O:1085:MET:HE2	2:O:1085:MET:HA	1.85	0.57
2:O:338:THR:HA	2:O:343:HIS:O	2.04	0.57
2:O:598:VAL:HG13	2:O:627:GLY:HA2	1.86	0.57
2:O:878:THR:HG22	2:O:879:GLY:N	2.20	0.57
3:P:1257:VAL:HA	3:P:1260:MET:HE2	1.87	0.57
3:P:1146:GLU:OE1	3:P:1309:ILE:HB	2.05	0.57
3:P:269:TYR:O	3:P:272:VAL:HB	2.05	0.57
2:O:1073:LYS:HE3	3:P:462:ASP:OD2	2.04	0.57
3:P:534:GLU:O	3:P:538:ARG:HG2	2.04	0.57
3:P:737:ILE:HG22	3:P:738:ARG:CA	2.35	0.57
3:D:839:VAL:O	3:D:842:ARG:HG3	2.04	0.57
1:H:178:SER:HB2	3:J:535:ARG:NH1	2.19	0.57
2:I:178:PRO:CB	2:I:397:LEU:HD23	2.34	0.57
3:J:1190:ILE:HD13	3:J:1196:LEU:HD21	1.87	0.57
3:J:1208:ASP:O	3:J:1210:ILE:HD12	2.05	0.57
3:J:379:PRO:HA	3:J:382:TYR:CD2	2.40	0.57
3:J:424:ASN:O	3:J:466:MET:HG2	2.05	0.57
2:I:1280:ALA:CB	3:J:431:ARG:HB3	2.34	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:68:TYR:CA	3:J:92:VAL:HG13	2.34	0.57
5:L:555:GLU:O	5:L:559:LEU:HG	2.04	0.57
2:O:1289:GLU:HA	2:O:1293:VAL:HG22	1.86	0.57
2:O:153:PRO:HA	2:O:177:ILE:CG2	2.35	0.57
2:O:593:LYS:HA	2:O:652:TYR:CD1	2.40	0.57
3:P:1135:THR:O	3:P:1139:PRO:HD2	2.04	0.57
3:P:589:TYR:O	3:P:591:ILE:N	2.38	0.57
1:B:100:LEU:HB3	1:B:115:ILE:HD12	1.87	0.57
2:C:262:TYR:CE2	2:C:277:LEU:HD13	2.40	0.57
2:C:432:LEU:HA	2:C:435:ILE:HD12	1.86	0.57
2:C:90:VAL:HG13	2:C:91:THR:H	1.70	0.57
2:C:1291:LEU:HD13	3:D:1354:GLY:HA2	1.86	0.57
3:D:147:ILE:CD1	3:D:178:ALA:CA	2.82	0.57
3:D:909:ILE:HD13	3:D:910:ASN:C	2.26	0.57
1:H:189:ALA:HA	1:H:199:ASP:CB	2.35	0.57
2:I:189:ASP:OD2	2:I:190:PRO:HD2	2.04	0.57
3:J:246:PRO:HB2	3:J:249:LEU:HG	1.86	0.57
5:L:155:GLU:O	5:L:156:ALA:HB2	2.05	0.57
1:N:102:LEU:HG	1:N:103:ASN:N	2.19	0.57
1:N:44:ARG:CD	1:N:185:TYR:HE1	2.08	0.57
1:A:203:ILE:HG22	1:A:205:MET:CE	2.34	0.56
2:C:495:ALA:HA	2:C:498:ILE:HD12	1.87	0.56
2:C:560:PRO:O	3:D:780:ARG:NH2	2.37	0.56
2:C:75:LEU:HD22	2:C:94:ALA:HB1	1.87	0.56
2:C:834:GLN:HG2	2:C:836:LEU:HD21	1.85	0.56
2:C:934:PHE:O	2:C:1048:LYS:CG	2.53	0.56
3:D:1176:VAL:HG13	3:D:1187:GLU:HG2	1.87	0.56
3:D:1320:ILE:HD11	3:D:1342:ASP:HB3	1.87	0.56
3:D:521:LYS:HZ2	3:D:541:LEU:HD23	1.70	0.56
3:D:74:LYS:HE3	6:1:24:DC:OP2	2.05	0.56
5:F:452:ILE:HG21	5:F:457:ILE:CD1	2.35	0.56
1:H:75:GLN:CG	1:H:134:THR:HG23	2.35	0.56
2:I:179:TYR:OH	2:I:462:ASN:OD1	2.18	0.56
2:I:489:PRO:O	2:I:493:ILE:HG13	2.05	0.56
2:I:94:ALA:CB	2:I:129:LEU:HD11	2.34	0.56
3:J:147:ILE:O	3:J:148:GLU:HB2	2.05	0.56
3:J:588:PRO:O	3:J:591:ILE:HG13	2.05	0.56
3:J:62:PHE:CD2	3:J:247:PRO:HG3	2.40	0.56
2:O:1330:ILE:HA	2:O:1333:LEU:HD12	1.87	0.56
2:O:374:GLU:HB2	5:R:99:ARG:NH1	2.19	0.56
3:P:478:LEU:HD11	4:Q:23:ALA:HB3	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:564:PRO:HB3	8:3:13:GTP:O1A	2.05	0.56
1:A:38:THR:HG21	1:B:42:ALA:O	2.05	0.56
1:B:47:LEU:HD13	1:B:183:ILE:HD11	1.87	0.56
3:D:1138:LEU:HD23	3:D:1139:PRO:HD3	1.87	0.56
3:D:497:GLU:HB3	3:D:498:PRO:CD	2.30	0.56
3:D:694:SER:OG	3:D:738:ARG:CD	2.50	0.56
5:F:452:ILE:HG23	5:F:456:MET:HB3	1.87	0.56
5:F:517:SER:HB2	5:F:521:ASP:HB2	1.87	0.56
3:J:514:THR:HG21	3:J:596:LEU:HB2	1.87	0.56
3:J:681:LYS:O	3:J:685:ILE:CG1	2.45	0.56
3:J:709:ARG:O	3:J:709:ARG:HG3	2.04	0.56
5:L:412:LEU:CD1	5:L:415:ALA:HB3	2.29	0.56
5:L:456:MET:O	5:L:460:ILE:HG13	2.05	0.56
1:M:56:VAL:CG1	1:M:144:ILE:HG23	2.33	0.56
1:M:45:ARG:HD3	1:N:38:THR:HG23	1.87	0.56
2:O:870:ILE:HG13	2:O:944:ARG:HG2	1.86	0.56
3:P:930:LEU:HD22	3:P:1134:ILE:HG13	1.87	0.56
3:P:366:CYS:SG	3:P:437:PHE:HB2	2.45	0.56
5:R:386:LEU:CD1	6:7:41:DT:O4'	2.49	0.56
1:B:106:GLY:HA2	1:B:136:GLU:HA	1.86	0.56
3:D:536:LEU:CD1	3:D:542:ALA:HB2	2.35	0.56
2:I:152:SER:HB3	2:I:452:ARG:HB2	1.86	0.56
2:I:205:PRO:O	2:I:208:ILE:HG22	2.06	0.56
5:L:374:ARG:HA	5:L:377:LYS:HD2	1.88	0.56
5:L:457:ILE:O	5:L:461:ASN:CG	2.42	0.56
1:M:152:TYR:HD1	1:M:175:ALA:O	1.86	0.56
1:N:73:GLY:HA3	1:N:138:ALA:HB2	1.87	0.56
2:O:347:ILE:O	2:O:350:THR:HB	2.05	0.56
3:P:930:LEU:HB3	3:P:1134:ILE:CD1	2.35	0.56
3:P:1138:LEU:CD2	3:P:1139:PRO:HD3	2.35	0.56
3:P:839:VAL:CG1	3:P:839:VAL:O	2.53	0.56
3:P:875:ASN:O	3:P:876:SER:HB2	2.05	0.56
5:R:87:VAL:HG11	5:R:103:ARG:HD3	1.87	0.56
8:3:13:GTP:C8	8:3:13:GTP:PA	2.96	0.56
2:C:1232:MET:O	2:C:1233:LEU:HG	2.05	0.56
2:C:673:HIS:C	3:D:763:PHE:HD1	2.09	0.56
2:C:896:THR:HG22	2:C:899:GLU:CD	2.24	0.56
3:J:978:ARG:HB2	3:J:1212:ASP:HB3	1.87	0.56
3:J:275:ARG:HD3	3:J:298:MET:HB3	1.86	0.56
1:M:45:ARG:HH12	2:O:1215:GLY:C	2.08	0.56
2:O:186:PHE:CD2	2:O:186:PHE:N	2.72	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:865:LEU:HD13	2:O:869:GLY:HA2	1.88	0.56
3:P:530:PRO:HB2	3:P:581:MET:SD	2.45	0.56
5:R:166:VAL:HG12	5:R:168:PRO:HD3	1.88	0.56
7:8:22:DA:H1'	7:8:23:DT:OP2	2.04	0.56
2:C:1289:GLU:HG2	2:C:1293:VAL:HG21	1.86	0.56
3:D:1283:SER:HA	3:D:1286:LYS:HD3	1.86	0.56
1:G:231:PHE:HZ	1:H:39:LEU:HB3	1.70	0.56
3:J:978:ARG:HG3	3:J:1212:ASP:CG	2.25	0.56
3:J:68:TYR:OH	3:J:94:GLN:HG2	2.05	0.56
2:I:938:GLY:HA2	5:L:481:GLU:OE2	2.04	0.56
1:M:106:GLY:O	1:M:133:LEU:HB3	2.05	0.56
1:M:154:PRO:CD	1:M:157:THR:OG1	2.53	0.56
1:M:158:ARG:NE	1:M:172:LEU:HD21	2.18	0.56
1:M:78:ILE:O	1:M:82:LEU:HG	2.06	0.56
2:O:280:ASP:O	2:O:281:ASP:HB2	2.04	0.56
2:O:428:VAL:HG12	2:O:429:MET:N	2.21	0.56
2:O:804:PHE:HE1	2:O:1103:VAL:HG21	1.69	0.56
3:P:1253:ILE:O	3:P:1257:VAL:HG23	2.06	0.56
3:P:689:ALA:O	3:P:693:VAL:HB	2.04	0.56
5:R:320:ILE:HD11	5:R:330:LEU:HD13	1.87	0.56
5:F:585:GLU:CB	7:2:46:DT:H71	2.34	0.56
1:B:60:GLU:O	1:B:142:MET:HB2	2.06	0.56
2:C:804:PHE:O	2:C:805:MET:HB3	2.04	0.56
3:D:416:ILE:HD12	3:D:441:LEU:CD1	2.35	0.56
3:D:583:VAL:CG1	3:D:587:LEU:HD12	2.35	0.56
2:I:840:SER:OG	2:I:1048:LYS:O	2.21	0.56
2:I:15:PHE:CE2	2:I:1182:ILE:CG2	2.88	0.56
2:I:245:ARG:HD3	2:I:337:PHE:CD1	2.40	0.56
2:I:753:LEU:HD22	2:I:767:GLN:HB3	1.88	0.56
3:J:34:SER:CB	3:J:104:HIS:HB3	2.35	0.56
5:L:395:THR:O	5:L:396:ASN:C	2.44	0.56
5:L:457:ILE:HD13	5:L:460:ILE:HD12	1.87	0.56
5:L:551:LEU:HB2	5:L:556:ALA:HB2	1.88	0.56
1:N:74:VAL:HG22	1:N:133:LEU:CD2	2.36	0.56
1:N:88:LEU:CD1	1:N:128:HIS:CE1	2.87	0.56
2:O:539:THR:HB	2:O:542:ARG:HB3	1.87	0.56
3:P:48:THR:HB	3:P:50:LYS:HE3	1.88	0.56
3:P:697:MET:HE1	3:P:737:ILE:HG22	1.88	0.56
6:4:47:DC:H4'	6:4:48:DA:OP1	2.06	0.56
6:7:49:DG:H2'	6:7:50:DT:C1'	2.35	0.56
2:C:76:GLY:HA3	2:C:95:PRO:HG2	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:279:LEU:HG	3:D:280:LYS:N	2.20	0.56
2:C:1309:VAL:O	3:D:383:GLY:HA3	2.06	0.56
2:I:1289:GLU:HA	2:I:1293:VAL:CG2	2.35	0.56
3:J:1326:GLN:HE21	7:5:11:DA:H4'	1.71	0.56
2:I:1282:GLY:O	3:J:1361:THR:OG1	2.22	0.56
3:J:385:LEU:HD22	3:J:391:ALA:CB	2.27	0.56
3:J:501:VAL:HG12	3:J:502:PRO:HD2	1.79	0.56
2:O:1230:MET:SD	2:O:1232:MET:HE1	2.45	0.56
2:O:153:PRO:HA	2:O:177:ILE:HG22	1.87	0.56
2:O:218:GLU:OE1	2:O:299:LYS:HD2	2.06	0.56
2:O:179:TYR:HB3	2:O:396:ASP:O	2.05	0.56
2:O:668:ILE:HD11	2:O:686:GLN:HE22	1.71	0.56
3:P:885:VAL:HG11	3:P:1255:VAL:HA	1.88	0.56
5:F:451:ARG:NH1	6:1:32:DA:P	2.79	0.56
6:1:42:DG:OP2	6:1:42:DG:H3'	2.06	0.56
1:B:76:GLU:CG	1:B:80:GLU:OE2	2.54	0.56
2:C:1278:LEU:CD2	2:C:1286:THR:OG1	2.53	0.56
2:C:590:PRO:HB3	2:C:605:TYR:CZ	2.40	0.56
3:D:1266:ILE:HB	3:D:1278:GLU:HB2	1.87	0.56
3:D:112:ALA:HB3	3:D:300:GLN:NE2	2.20	0.56
5:F:452:ILE:HG23	5:F:456:MET:HG2	1.87	0.56
2:I:1269:ARG:HG3	3:J:346:ARG:N	2.20	0.56
2:I:398:SER:OG	2:I:399:ALA:N	2.39	0.56
2:I:524:ILE:HD11	2:I:712:SER:CA	2.35	0.56
2:I:561:ILE:HG21	2:I:676:ALA:HB1	1.88	0.56
3:J:1123:ARG:O	3:J:1125:PRO:HD3	2.06	0.56
3:J:551:ARG:O	3:J:552:ILE:HD13	2.05	0.56
5:L:489:MET:HB3	5:L:490:PRO:CD	2.36	0.56
5:L:583:THR:HG21	5:L:586:ARG:HB3	1.86	0.56
1:M:22:THR:OG1	1:M:207:THR:O	2.13	0.56
1:N:40:GLY:HA2	1:N:43:LEU:HD12	1.87	0.56
2:O:1161:LEU:HG	2:O:1162:SER:N	2.21	0.56
2:O:1294:LYS:HE2	3:P:472:LEU:CD1	2.27	0.56
2:O:1324:ASN:O	2:O:1328:LYS:HG2	2.06	0.56
2:O:607:SER:OG	2:O:610:GLU:HG3	2.05	0.56
2:O:955:GLN:HA	2:O:955:GLN:OE1	2.05	0.56
3:P:326:SER:O	3:P:329:ASP:HB2	2.05	0.56
3:P:392:THR:OG1	3:P:393:THR:N	2.39	0.56
6:1:24:DC:H2"	6:1:25:DC:OP2	2.06	0.56
2:C:18:ARG:HG2	2:C:1188:ASP:OD2	2.06	0.56
2:C:660:VAL:HG12	2:C:661:VAL:HG22	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:923:ILE:HD13	3:D:1253:ILE:HG13	1.87	0.56
3:D:1346:GLY:CA	3:D:1349:GLU:HG3	2.36	0.56
3:D:544:LEU:HA	3:D:574:VAL:HB	1.88	0.56
3:D:701:LEU:HD11	3:D:720:ASN:ND2	2.21	0.56
3:D:746:LEU:HD23	3:D:758:PRO:HB3	1.86	0.56
5:F:137:TYR:CE1	5:F:353:LEU:HD21	2.41	0.56
2:I:167:SER:CB	3:J:1064:SER:CB	2.84	0.56
2:I:623:LEU:HD23	2:I:628:HIS:C	2.25	0.56
2:I:881:ASP:O	2:I:920:VAL:HG23	2.06	0.56
3:J:882:VAL:HG22	3:J:882:VAL:O	2.06	0.56
5:L:102:MET:CE	5:L:105:MET:HE2	2.36	0.56
5:L:105:MET:CB	5:L:384:LEU:HD13	2.36	0.56
1:M:51:MET:CE	1:M:211:ILE:HG21	2.36	0.56
1:N:158:ARG:CD	1:N:172:LEU:HD21	2.33	0.56
3:P:270:ARG:HE	5:R:449:THR:HG23	1.71	0.56
3:P:795:TYR:CD1	7:8:12:DG:H5"	2.41	0.56
4:Q:12:LYS:HG2	4:Q:54:ILE:O	2.06	0.56
6:4:30:DG:O6	7:5:32:DA:N6	2.39	0.56
2:C:1284:ALA:O	2:C:1287:LEU:CD2	2.49	0.56
2:C:136:PHE:CE1	2:C:506:PHE:HE1	2.23	0.56
2:C:520:PRO:O	2:C:524:ILE:HG13	2.06	0.56
2:C:646:SER:O	2:C:650:VAL:HG23	2.06	0.56
2:C:766:ASN:ND2	2:C:766:ASN:C	2.58	0.56
2:C:73:TYR:HB3	2:C:98:VAL:HG22	1.88	0.56
3:D:1179:PRO:HB2	3:D:1182:GLY:O	2.06	0.56
3:D:147:ILE:HD12	3:D:178:ALA:HA	1.86	0.56
3:D:245:LEU:CD1	3:D:249:LEU:HD12	2.36	0.56
3:D:702:GLN:HG3	3:D:723:TYR:CZ	2.41	0.56
5:F:452:ILE:HG22	5:F:457:ILE:CD1	2.35	0.56
2:I:1237:HIS:O	2:I:1238:LEU:HD23	2.06	0.56
2:I:821:ARG:O	2:I:825:GLU:HG3	2.06	0.56
3:J:395:LYS:HD2	5:L:610:PHE:CD1	2.41	0.56
5:L:102:MET:HB3	6:4:42:DG:N2	2.20	0.56
5:L:102:MET:HE1	5:L:105:MET:CE	2.34	0.56
5:L:235:ILE:HD11	5:L:249:ILE:HD11	1.88	0.56
1:N:150:ARG:HB2	1:N:150:ARG:HH11	1.70	0.56
1:M:45:ARG:HD3	1:N:38:THR:CG2	2.36	0.56
2:O:12:ARG:HA	2:O:1181:PRO:O	2.06	0.56
2:O:34:SER:OG	2:O:455:SER:HB2	2.05	0.56
2:O:823:VAL:HG12	2:O:1059:ARG:NH2	2.21	0.56
3:P:1278:GLU:HA	3:P:1278:GLU:OE1	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:432:LEU:HD13	3:P:435:GLN:NE2	2.21	0.56
3:P:984:LEU:HD23	3:P:992:LYS:HB3	1.87	0.56
5:R:401:PHE:O	5:R:405:ILE:HG13	2.06	0.56
6:1:36:DT:O3'	6:1:37:DA:P	2.64	0.56
1:B:59:VAL:HG22	1:B:144:ILE:HG12	1.88	0.56
3:D:1169:THR:OG1	3:D:1174:ARG:NH2	2.35	0.56
3:D:135:ILE:O	3:D:138:VAL:HB	2.06	0.56
3:D:519:ASN:HA	3:D:523:GLU:HB2	1.88	0.56
3:D:885:VAL:CG1	3:D:886:VAL:HG22	2.36	0.56
3:D:972:LYS:CE	3:D:1002:VAL:HG11	2.36	0.56
5:F:540:LEU:HD13	5:F:610:PHE:CE2	2.40	0.56
1:H:61:ILE:HB	1:H:64:VAL:HB	1.87	0.56
2:I:1199:LEU:HD23	2:I:1204:LEU:HD13	1.88	0.56
2:I:149:LEU:HD11	2:I:451:ARG:NE	2.21	0.56
3:J:1100:PHE:HB2	3:J:1193:TRP:CB	2.34	0.56
3:J:1145:PHE:HB3	3:J:1309:ILE:CD1	2.24	0.56
3:J:224:LEU:O	3:J:227:PHE:HB3	2.06	0.56
2:O:1081:PRO:CB	2:O:1083:GLU:OE1	2.54	0.56
2:O:1288:GLN:HB3	2:O:1315:MET:CE	2.37	0.56
2:O:739:ASP:OD1	2:O:739:ASP:N	2.36	0.56
2:O:49:LEU:HD13	2:O:73:TYR:CE1	2.41	0.56
3:P:1093:THR:HG22	3:P:1199:PHE:HB3	1.88	0.56
3:P:135:ILE:HG22	3:P:139:LEU:HD11	1.88	0.56
3:P:361:LEU:HD22	3:P:365:GLN:HB2	1.86	0.56
3:P:822:MET:HE2	3:P:838:ARG:NE	2.21	0.56
7:2:29:DC:H2"	7:2:30:DA:C8	2.41	0.55
6:4:47:DC:O2	6:4:48:DA:N3	2.39	0.55
1:A:106:GLY:HA2	1:A:136:GLU:HA	1.87	0.55
1:A:192:VAL:CG2	1:A:195:ARG:O	2.54	0.55
2:C:237:LEU:HG	2:C:289:VAL:CG2	2.26	0.55
2:C:432:LEU:HG	2:C:433:ILE:N	2.17	0.55
2:C:530:ILE:HD11	2:C:575:LEU:N	2.21	0.55
2:C:699:LEU:HG	2:C:799:ASN:OD1	2.06	0.55
3:D:1226:VAL:C	3:D:1229:VAL:CG1	2.71	0.55
5:F:587:ILE:HG23	5:F:590:ILE:HD12	1.88	0.55
2:I:805:MET:HE2	2:I:806:PRO:O	2.06	0.55
2:I:988:LYS:HZ3	2:I:992:LEU:HD11	1.70	0.55
3:J:632:ALA:O	3:J:635:SER:OG	2.23	0.55
3:J:749:LYS:HG3	3:J:755:ILE:HG12	1.88	0.55
3:J:428:THR:HG21	3:J:921:GLN:NE2	2.21	0.55
5:L:221:PHE:HB3	5:L:225:ARG:NH2	2.20	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:217:THR:CG2	2:O:313:ALA:HB1	2.29	0.55
2:O:149:LEU:CG	2:O:451:ARG:HE	2.19	0.55
3:P:185:ILE:O	3:P:189:LEU:HD12	2.06	0.55
3:P:512:TYR:CE2	3:P:635:SER:HB2	2.41	0.55
2:C:374:GLU:HG3	2:C:375:PRO:HD2	1.88	0.55
3:D:133:ARG:HA	3:D:136:GLU:CG	2.36	0.55
5:F:290:LEU:O	5:F:294:GLN:HB2	2.06	0.55
5:F:551:LEU:HD13	5:F:559:LEU:CD1	2.36	0.55
1:H:31:LEU:CD1	1:H:36:GLY:HA2	2.37	0.55
2:I:1069:ARG:NH2	2:I:1231:TYR:CD2	2.74	0.55
3:J:1163:VAL:HG22	3:J:1177:ILE:HG23	1.87	0.55
3:J:182:ALA:HA	3:J:185:ILE:HD11	1.85	0.55
2:I:1337:ILE:HD12	3:J:22:ILE:CD1	2.34	0.55
5:L:574:GLU:O	5:L:578:LYS:HG3	2.06	0.55
2:O:105:TYR:CE1	2:O:113:THR:HB	2.41	0.55
2:O:761:GLN:O	2:O:762:ASN:HB2	2.06	0.55
2:O:168:GLY:O	3:P:1065:ALA:CB	2.55	0.55
5:R:166:VAL:HG12	5:R:167:ASP:N	2.21	0.55
6:1:46:DG:H5"	6:1:46:DG:H8	1.72	0.55
1:B:68:TYR:CD1	1:B:79:LEU:CD2	2.83	0.55
2:C:562:GLU:O	2:C:563:THR:HB	2.06	0.55
2:C:854:ILE:CD1	2:C:862:LEU:HD23	2.35	0.55
2:C:940:GLU:HG2	2:C:941:LYS:HD2	1.88	0.55
3:D:1023:HIS:O	3:D:1024:THR:CB	2.54	0.55
3:D:377:PHE:O	3:D:381:ILE:HG13	2.06	0.55
2:C:1112:ILE:HG22	3:D:641:ILE:HG12	1.88	0.55
2:C:1116:HIS:NE2	3:D:641:ILE:HG13	2.21	0.55
3:D:697:MET:CE	3:D:738:ARG:HG2	2.36	0.55
5:F:385:ARG:O	5:F:388:ILE:CG2	2.53	0.55
2:I:1205:PRO:HD2	2:I:1210:ILE:HD11	1.88	0.55
2:I:191:LYS:HG2	3:J:1069:ALA:HB3	1.89	0.55
3:J:1338:ALA:HB3	3:J:1340:LYS:HG3	1.87	0.55
3:J:321:LYS:O	3:J:321:LYS:HG2	2.06	0.55
3:J:427:PRO:HB3	7:5:14:DC:H1'	1.87	0.55
3:J:543:SER:O	3:J:574:VAL:HG21	2.06	0.55
5:L:395:THR:O	5:L:396:ASN:O	2.24	0.55
1:M:11:PRO:HD2	1:N:227:GLN:CA	2.37	0.55
2:O:1088:ASP:CG	2:O:1092:THR:O	2.44	0.55
2:O:830:THR:CG2	2:O:1234:LYS:NZ	2.70	0.55
2:O:303:ASP:HB2	2:O:310:ILE:HG13	1.87	0.55
2:O:405:PHE:CD1	2:O:406:ASN:OD1	2.60	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:800:MET:SD	2:O:828:PHE:CE1	2.99	0.55
3:P:1179:PRO:HD2	3:P:1184:ASP:O	2.06	0.55
2:O:550:VAL:O	3:P:777:HIS:CE1	2.58	0.55
1:B:162:GLU:HG2	1:B:164:ASP:HB3	1.88	0.55
2:C:1276:TRP:HD1	2:C:1279:GLU:OE1	1.90	0.55
3:D:1101:LEU:HD13	3:D:1107:VAL:CG2	2.37	0.55
3:D:113:HIS:CD2	3:D:115:TRP:HB2	2.41	0.55
3:D:1165:PHE:HE1	3:D:1199:PHE:O	1.89	0.55
3:D:251:PRO:O	5:F:507:MET:CE	2.54	0.55
3:D:424:ASN:HB3	3:D:467:ALA:HB3	1.87	0.55
3:D:645:VAL:HG23	3:D:645:VAL:O	2.06	0.55
2:C:1104:PRO:CG	3:D:725:MET:HE1	2.36	0.55
5:F:277:MET:CE	5:F:362:ASN:HD22	2.19	0.55
1:G:99:ILE:HG12	1:G:145:LYS:HG3	1.88	0.55
1:H:162:GLU:OE1	1:H:166:ARG:CZ	2.55	0.55
1:H:193:GLU:C	1:H:194:GLN:HG2	2.26	0.55
2:I:1238:LEU:O	2:I:1242:LYS:HG3	2.07	0.55
2:I:890:LYS:HZ3	2:I:893:THR:HG23	1.72	0.55
3:J:1138:LEU:CB	3:J:1139:PRO:HD3	2.35	0.55
3:J:428:THR:CG2	3:J:921:GLN:HE22	2.19	0.55
3:J:449:LEU:HD11	3:J:453:VAL:CG2	2.37	0.55
2:I:1283:ALA:HB1	3:J:479:GLU:CD	2.27	0.55
3:J:519:ASN:N	3:J:519:ASN:OD1	2.39	0.55
2:O:1108:ASN:OD1	2:O:1108:ASN:N	2.31	0.55
2:O:227:LYS:HE2	2:O:298:ALA:HB1	1.87	0.55
2:O:25:PRO:O	2:O:27:LEU:CD2	2.54	0.55
2:O:522:SER:O	2:O:525:THR:HG22	2.07	0.55
2:O:617:ALA:HB3	2:O:653:MET:HG3	1.88	0.55
3:P:30:ILE:HG12	3:P:33:TRP:CZ3	2.40	0.55
2:O:1112:ILE:HD11	3:P:639:VAL:HB	1.88	0.55
3:P:943:ARG:O	3:P:944:ALA:HB2	2.07	0.55
5:R:452:ILE:HB	5:R:457:ILE:HD11	1.88	0.55
6:1:55:DC:H2"	6:1:56:DG:OP2	2.07	0.55
1:B:190:ALA:CB	1:B:200:LYS:HG3	2.30	0.55
1:B:88:LEU:HD11	1:B:128:HIS:HB3	1.87	0.55
2:C:820:GLU:OE1	2:C:1081:PRO:HA	2.06	0.55
2:C:1107:MET:CE	3:D:740:LEU:CD2	2.84	0.55
2:C:448:LEU:CG	2:C:553:THR:HB	2.36	0.55
3:D:614:LEU:O	3:D:618:VAL:HG23	2.06	0.55
2:I:1054:LEU:CD2	2:I:1055:ALA:H	2.19	0.55
2:I:1225:VAL:CG1	2:I:1226:THR:N	2.68	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:338:PHE:CE2	3:J:1328:THR:HG21	2.41	0.55
3:J:371:LYS:NZ	3:J:371:LYS:HB3	2.21	0.55
3:J:591:ILE:HG21	3:J:604:MET:HG2	1.89	0.55
3:J:843:VAL:CG1	3:J:883:ARG:HD3	2.26	0.55
2:I:1256:GLN:HE22	3:J:96:LYS:NZ	2.04	0.55
1:M:41:ASN:HD21	2:O:1218:GLY:CA	2.19	0.55
2:O:1252:SER:CA	2:O:1259:LEU:HD21	2.36	0.55
2:O:643:SER:OG	2:O:644:LEU:N	2.39	0.55
2:O:559:CYS:HB2	2:O:662:SER:H	1.72	0.55
2:O:727:VAL:H	2:O:773:LEU:CD2	2.20	0.55
3:P:1212:ASP:OD1	3:P:1212:ASP:N	2.27	0.55
3:P:322:ARG:HB2	3:P:323:PRO:HD2	1.88	0.55
2:C:685:MET:CE	2:C:1073:LYS:HD3	2.36	0.55
2:C:667:LEU:HD22	2:C:705:GLU:OE2	2.07	0.55
2:C:878:THR:CG2	2:C:879:GLY:N	2.70	0.55
3:D:36:GLY:C	3:D:104:HIS:CE1	2.80	0.55
3:D:192:MET:HE3	3:D:197:GLU:OE2	2.05	0.55
3:D:368:LEU:HD22	3:D:439:PRO:HB3	1.89	0.55
3:D:484:MET:HB3	3:D:484:MET:CE	2.37	0.55
3:D:79:LYS:NZ	5:F:569:THR:CB	2.69	0.55
2:I:188:PHE:CE2	2:I:432:LEU:HD11	2.41	0.55
2:I:448:LEU:HD23	2:I:448:LEU:N	2.21	0.55
3:J:1069:ALA:HA	3:J:1072:LYS:HE2	1.89	0.55
3:J:1081:VAL:HB	3:J:1086:ASN:O	2.07	0.55
3:J:352:ARG:O	3:J:372:MET:CE	2.54	0.55
3:J:483:LEU:HD11	4:K:17:PHE:CE1	2.41	0.55
1:M:39:LEU:H	1:M:39:LEU:CD2	2.14	0.55
1:N:37:HIS:NE2	1:N:187:VAL:HG21	2.22	0.55
2:O:867:GLU:HG3	2:O:868:SER:N	2.21	0.55
2:O:809:GLY:CA	3:P:629:PHE:CE1	2.90	0.55
2:C:1273:MET:HB2	2:C:1274:GLU:OE1	2.06	0.55
2:C:303:ASP:HB2	2:C:310:ILE:CD1	2.34	0.55
3:D:1226:VAL:HG22	3:D:1304:ARG:HH12	1.72	0.55
3:D:1230:THR:HA	3:D:1233:ILE:CD1	2.37	0.55
3:D:504:GLN:HG2	3:D:505:ASP:OD1	2.07	0.55
2:I:15:PHE:O	2:I:17:LYS:HE3	2.06	0.55
2:I:165:HIS:HB3	2:I:168:GLY:N	2.19	0.55
2:I:211:ARG:HD3	2:I:357:ASN:O	2.05	0.55
2:I:232:ILE:HD13	2:I:326:SER:HB3	1.89	0.55
2:I:289:VAL:CG1	2:I:322:LEU:HD13	2.36	0.55
2:I:717:VAL:CG1	2:I:718:ALA:N	2.70	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:90:VAL:CG1	2:I:91:THR:H	2.20	0.55
2:I:1258:PRO:HG2	3:J:346:ARG:HB3	1.88	0.55
5:L:392:LYS:HA	5:L:395:THR:CG2	2.37	0.55
1:N:38:THR:CA	1:N:39:LEU:HD23	2.37	0.55
2:O:1104:PRO:CB	3:P:725:MET:HE1	2.36	0.55
3:P:622:ASP:O	3:P:625:MET:HB3	2.06	0.55
1:A:45:ARG:HD3	1:B:38:THR:HG1	1.69	0.55
1:B:175:ALA:HB1	1:B:177:TYR:CE2	2.41	0.55
1:B:175:ALA:HB3	1:B:177:TYR:CE2	2.42	0.55
1:B:57:THR:HG21	1:B:147:GLN:HE22	1.71	0.55
3:D:116:PHE:C	3:D:124:ILE:HD11	2.27	0.55
3:D:108:ALA:CB	3:D:279:LEU:HD21	2.30	0.55
3:D:435:GLN:OE1	3:D:486:SER:CB	2.53	0.55
3:D:625:MET:HG2	3:D:629:PHE:CE2	2.42	0.55
3:D:808:VAL:CG1	3:D:809:VAL:N	2.69	0.55
5:F:262:VAL:CG1	5:F:264:LYS:HE3	2.36	0.55
5:F:443:ILE:HG23	5:F:444:ALA:N	2.22	0.55
1:G:189:ALA:HA	1:G:199:ASP:HB3	1.89	0.55
2:I:163:LYS:CG	2:I:164:THR:N	2.70	0.55
2:I:1294:LYS:HB3	3:J:347:VAL:CG1	2.36	0.55
3:J:814:CYS:HB2	3:J:889:ASP:HB3	1.89	0.55
1:M:104:LYS:HD2	1:M:105:SER:H	1.72	0.55
1:N:57:THR:HG23	1:N:158:ARG:NH2	2.22	0.55
2:O:839:VAL:HG13	2:O:1049:ILE:HG12	1.89	0.55
2:O:1085:MET:CE	2:O:1085:MET:CA	2.84	0.55
2:O:196:VAL:HG12	2:O:197:ARG:N	2.21	0.55
2:O:230:PHE:CE1	2:O:292:ILE:CD1	2.90	0.55
2:O:716:ALA:HB3	2:O:784:ALA:HB3	1.88	0.55
3:P:1096:PRO:O	3:P:1098:GLN:N	2.39	0.55
3:P:820:ILE:CD1	3:P:1230:THR:HB	2.36	0.55
6:4:46:DG:C5'	6:4:46:DG:H8	2.19	0.55
1:B:37:HIS:CE1	2:C:1216:ARG:HD2	2.42	0.55
1:B:70:THR:O	1:B:70:THR:CG2	2.55	0.55
2:C:1334:GLY:O	3:D:25:ALA:HB3	2.06	0.55
2:C:448:LEU:HB2	2:C:608:ALA:HB2	1.89	0.55
2:C:90:VAL:HG12	2:C:91:THR:N	2.20	0.55
3:D:1046:ILE:HG22	3:D:1061:VAL:HA	1.89	0.55
3:D:112:ALA:HA	3:D:238:ILE:HD11	0.73	0.55
3:D:826:ILE:HG12	3:D:831:VAL:HG13	1.89	0.55
2:I:1064:ASP:CG	2:I:1238:LEU:HD22	2.27	0.55
2:I:661:VAL:CG1	2:I:665:ALA:CB	2.85	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:270:ARG:HA	3:J:273:ILE:HD12	1.89	0.55
2:O:1292:THR:HG23	2:O:1293:VAL:N	2.20	0.55
2:O:375:PRO:HA	5:R:87:VAL:CG2	2.35	0.55
2:O:689:ALA:CB	2:O:1233:LEU:HD13	2.37	0.55
3:P:1327:GLU:O	3:P:1331:VAL:HG23	2.07	0.55
3:P:363:LEU:HD21	3:P:487:THR:HA	1.89	0.55
3:P:39:LYS:HG2	3:P:40:LYS:HE3	1.89	0.55
3:D:1148:ARG:CZ	6:1:54:DA:H4'	2.37	0.55
6:4:28:DA:N6	7:5:34:DG:C6	2.75	0.55
7:8:22:DA:H2"	7:8:23:DT:OP1	2.07	0.55
1:B:61:ILE:HD12	1:B:171:LEU:HD11	1.89	0.55
2:C:255:ILE:CG1	2:C:285:ILE:HG21	2.36	0.55
2:C:897:PRO:HB3	5:F:563:PHE:O	2.06	0.55
3:D:999:TYR:HB3	3:D:1025:MET:CE	2.37	0.55
3:D:1347:LEU:O	3:D:1351:VAL:HG23	2.06	0.55
3:D:182:ALA:O	3:D:185:ILE:HD13	2.07	0.55
3:D:363:LEU:HD21	3:D:487:THR:HG22	1.88	0.55
3:D:378:LYS:HG2	3:D:382:TYR:CE2	2.42	0.55
3:D:702:GLN:HG3	3:D:723:TYR:CE1	2.41	0.55
5:F:119:ILE:N	5:F:119:ILE:HD12	2.22	0.55
1:G:48:LEU:CD2	1:G:183:ILE:HG22	2.36	0.55
3:J:539:SER:HB2	3:J:541:LEU:HG	1.88	0.55
5:L:599:ARG:O	5:L:601:PRO:CD	2.55	0.55
1:N:16:ILE:HG23	1:N:26:VAL:HG13	1.88	0.55
1:N:41:ASN:ND2	1:N:42:ALA:N	2.54	0.55
2:O:960:LEU:HD22	2:O:1025:PHE:CD1	2.42	0.55
2:O:369:MET:HG3	2:O:370:MET:H	1.71	0.55
6:7:50:DT:H5'	6:7:51:DC:C6	2.42	0.54
3:D:227:PHE:HZ	3:D:234:PRO:HA	1.72	0.54
3:D:341:ASN:O	3:D:345:LYS:HE2	2.07	0.54
2:I:86:GLN:HA	2:I:140:GLY:HA2	1.87	0.54
3:J:797:THR:HG21	3:J:924:GLY:HA3	1.88	0.54
1:M:26:VAL:HG21	1:M:217:ILE:HD11	1.89	0.54
2:O:165:HIS:CB	2:O:168:GLY:H	2.20	0.54
2:O:665:ALA:HA	2:O:668:ILE:HD12	1.87	0.54
2:O:994:ARG:NH1	2:O:997:TRP:CH2	2.74	0.54
3:P:268:LEU:HD21	3:P:324:LEU:HD12	1.89	0.54
3:P:584:PRO:CD	3:P:620:PHE:CD1	2.89	0.54
7:5:29:DC:H2"	7:5:30:DA:C8	2.42	0.54
6:7:58:DG:C2'	6:7:59:DG:OP2	2.55	0.54
3:P:464:ASP:CG	8:9:15:G:O2'	2.45	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:86:LYS:CE	1:A:173:VAL:HG12	2.37	0.54
1:B:92:VAL:HG12	1:B:93:GLN:N	2.22	0.54
2:C:1257:GLN:CG	2:C:1296:ASP:OD1	2.47	0.54
2:C:407:ARG:CZ	2:C:407:ARG:HB2	2.36	0.54
3:D:1301:THR:HG23	3:D:1302:TYR:N	2.23	0.54
3:D:133:ARG:HA	3:D:136:GLU:HG3	1.90	0.54
3:D:337:ARG:NH1	3:D:341:ASN:HD21	2.06	0.54
2:C:673:HIS:O	3:D:763:PHE:HD1	1.89	0.54
5:F:137:TYR:CE1	5:F:353:LEU:CD1	2.57	0.54
2:I:1112:ILE:O	2:I:1115:THR:HB	2.07	0.54
2:I:36:GLN:CD	2:I:36:GLN:C	2.65	0.54
2:I:468:LEU:O	2:I:471:VAL:HB	2.06	0.54
3:J:1106:ILE:CD1	3:J:1125:PRO:HG2	2.37	0.54
3:J:1177:ILE:HD12	3:J:1186:TYR:HB2	1.87	0.54
3:J:139:LEU:HD22	3:J:185:ILE:CD1	2.36	0.54
3:J:69:GLU:CG	3:J:70:CYS:O	2.55	0.54
5:L:124:GLU:OE2	5:L:421:TYR:CE1	2.59	0.54
2:O:1131:MET:HB2	2:O:1141:LEU:HD21	1.88	0.54
3:P:1138:LEU:HD23	3:P:1139:PRO:CG	2.37	0.54
6:4:53:DG:H1'	6:4:54:DA:C5'	2.38	0.54
2:C:1043:ALA:HB3	2:C:1046:VAL:HG21	1.89	0.54
2:C:1122:LYS:HG3	2:C:1229:TYR:CZ	2.42	0.54
3:D:783:LEU:HD13	3:D:783:LEU:N	2.22	0.54
3:D:786:THR:CG2	3:D:787:ALA:H	2.19	0.54
5:F:450:ILE:CD1	5:F:450:ILE:N	2.53	0.54
2:I:298:ALA:CB	2:I:334:GLU:O	2.55	0.54
2:I:404:LYS:HZ1	2:I:450:ASN:HA	1.72	0.54
2:I:429:MET:O	2:I:433:ILE:HG13	2.08	0.54
2:I:722:GLY:HA2	2:I:737:ASN:CG	2.26	0.54
2:I:827:ARG:O	2:I:828:PHE:HB2	2.08	0.54
2:I:886:LYS:HD3	2:I:916:SER:HB2	1.87	0.54
2:I:933:VAL:HG22	2:I:1050:VAL:HG13	1.89	0.54
3:J:1033:GLY:HA3	3:J:1081:VAL:O	2.07	0.54
3:J:1302:TYR:C	3:J:1302:TYR:CD2	2.81	0.54
3:J:828:GLY:HA2	3:J:996:LYS:HB2	1.90	0.54
5:L:266:PHE:O	5:L:270:VAL:HG23	2.07	0.54
5:L:604:SER:OG	5:L:607:LEU:HD12	2.07	0.54
2:O:1077:SER:HB2	3:P:357:VAL:HG23	1.88	0.54
2:O:163:LYS:CG	2:O:164:THR:N	2.62	0.54
2:O:805:MET:CA	2:O:1100:PRO:HD3	2.38	0.54
3:P:1038:THR:OG1	3:P:1077:ALA:HB3	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:391:ALA:O	5:R:395:THR:HG23	2.08	0.54
1:A:38:THR:HG22	1:B:42:ALA:CA	2.29	0.54
1:B:85:LEU:N	1:B:85:LEU:HD23	2.22	0.54
2:C:1061:GLN:CB	2:C:1062:PRO:HD2	2.36	0.54
2:C:1111:GLN:O	2:C:1115:THR:OG1	2.25	0.54
2:C:1270:PHE:CB	3:D:347:VAL:CG2	2.82	0.54
2:C:163:LYS:HD3	2:C:164:THR:HG22	1.89	0.54
2:C:702:THR:OG1	2:C:704:MET:HB2	2.08	0.54
2:C:82:VAL:HG23	2:C:83:GLN:H	1.72	0.54
2:C:890:LYS:HE2	2:C:893:THR:OG1	2.08	0.54
3:D:227:PHE:CE1	3:D:232:ASN:O	2.61	0.54
3:D:264:ASP:HA	3:D:267:ASP:OD2	2.08	0.54
3:D:632:ALA:O	3:D:635:SER:OG	2.23	0.54
2:I:467:GLY:O	2:I:471:VAL:HG23	2.08	0.54
2:I:725:GLN:NE2	2:I:735:LYS:CE	2.69	0.54
2:I:988:LYS:HZ3	2:I:992:LEU:CD1	2.21	0.54
3:J:1080:ILE:CD1	3:J:1115:ILE:HD11	2.38	0.54
3:J:22:ILE:HD11	3:J:1319:PHE:CE1	2.42	0.54
3:J:28:ASP:HA	3:J:31:ARG:HD2	1.89	0.54
3:J:330:MET:CE	3:J:337:ARG:HH22	2.21	0.54
3:J:450:HIS:CD2	3:J:452:LEU:H	2.26	0.54
5:L:279:ARG:O	5:L:283:GLN:HG2	2.07	0.54
2:O:1172:LEU:O	2:O:1176:LEU:HG	2.08	0.54
2:O:162:GLY:O	2:O:163:LYS:CB	2.56	0.54
2:O:1245:ALA:HB2	3:P:372:MET:HG3	1.89	0.54
3:P:501:VAL:CG1	3:P:502:PRO:CD	2.85	0.54
3:P:261:ALA:HB1	5:R:519:LEU:HD23	1.89	0.54
6:1:46:DG:H5"	6:1:46:DG:C8	2.42	0.54
1:A:41:ASN:HD21	2:C:1217:THR:C	2.10	0.54
2:C:149:LEU:HD23	2:C:532:ALA:HB2	1.88	0.54
3:D:1253:ILE:HG23	3:D:1256:ILE:HD12	1.88	0.54
3:D:132:LEU:HA	3:D:135:ILE:HD12	1.89	0.54
3:D:146:VAL:HG11	3:D:155:GLU:O	2.07	0.54
3:D:162:GLU:CB	3:D:163:GLU:OE1	2.55	0.54
3:D:269:TYR:O	3:D:272:VAL:HB	2.07	0.54
3:D:619:ILE:CG2	3:D:620:PHE:N	2.52	0.54
2:I:448:LEU:HD11	2:I:553:THR:C	2.28	0.54
2:I:805:MET:HE1	3:J:633:ALA:O	2.07	0.54
3:J:1027:VAL:O	3:J:1121:LEU:HB2	2.07	0.54
3:J:105:ILE:HD12	3:J:244:VAL:CG2	2.37	0.54
2:I:1269:ARG:CG	3:J:345:LYS:C	2.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:918:ILE:HG23	3:J:919:ALA:N	2.21	0.54
3:J:974:VAL:HG11	3:J:1028:ILE:HG21	1.90	0.54
4:K:70:GLN:HA	4:K:73:GLN:NE2	2.23	0.54
4:K:80:LEU:HD23	4:K:83:VAL:HB	1.89	0.54
2:O:1120:ALA:HB1	2:O:1198:LEU:CG	2.30	0.54
2:O:211:ARG:CD	2:O:357:ASN:O	2.43	0.54
2:O:530:ILE:CD1	2:O:558:VAL:HG22	2.38	0.54
2:O:656:SER:O	2:O:659:GLN:HG2	2.07	0.54
2:O:668:ILE:CG1	2:O:686:GLN:HE22	2.21	0.54
2:O:951:MET:O	2:O:955:GLN:HG2	2.07	0.54
1:A:140:ILE:CG1	1:A:141:SER:N	2.70	0.54
1:B:214:GLU:O	1:B:217:ILE:HB	2.07	0.54
2:C:937:ASP:HB2	2:C:1039:GLY:HA3	1.90	0.54
2:C:228:VAL:HG22	2:C:245:ARG:NH1	2.23	0.54
2:C:531:SER:HB2	2:C:572:ILE:HG12	1.90	0.54
2:C:807:TRP:CG	2:C:817:LEU:HD11	2.41	0.54
2:C:890:LYS:HB3	2:C:912:ASP:C	2.28	0.54
3:D:478:LEU:HB3	4:E:20:VAL:CG2	2.37	0.54
3:D:665:GLN:O	3:D:668:PHE:CB	2.55	0.54
3:D:759:ILE:CD1	3:D:771:GLN:HB3	2.37	0.54
3:D:96:LYS:O	3:D:99:ARG:HB3	2.07	0.54
1:G:24:ALA:CB	1:G:213:PRO:CB	2.85	0.54
2:I:559:CYS:HB2	2:I:662:SER:N	2.23	0.54
2:I:761:GLN:O	2:I:762:ASN:CB	2.55	0.54
3:J:291:ILE:HG23	5:L:409:ASN:ND2	2.22	0.54
3:J:600:ALA:O	3:J:604:MET:HG3	2.07	0.54
1:M:77:ASP:OD2	2:O:756:TYR:OH	2.21	0.54
2:O:211:ARG:NH1	2:O:357:ASN:O	2.39	0.54
2:O:437:ASN:OD1	2:O:437:ASN:N	2.40	0.54
3:P:421:VAL:HG13	3:P:470:VAL:HA	1.88	0.54
2:O:1301:ARG:HG3	5:R:531:PRO:HG3	1.89	0.54
5:R:555:GLU:O	5:R:559:LEU:HG	2.08	0.54
6:1:48:DA:H3'	6:1:49:DG:H5"	1.90	0.54
5:F:572:THR:HB	7:2:45:DG:OP1	2.08	0.54
2:C:557:ARG:NH2	2:C:611:GLU:OE1	2.41	0.54
2:C:667:LEU:CD2	2:C:704:MET:HB3	2.38	0.54
2:C:898:GLU:OE1	2:C:898:GLU:N	2.34	0.54
3:D:1219:ASP:OD1	3:D:1219:ASP:N	2.41	0.54
3:D:132:LEU:O	3:D:136:GLU:HG3	2.07	0.54
3:D:289:ASP:O	3:D:293:ARG:HG3	2.08	0.54
2:C:1281:TYR:CD1	3:D:431:ARG:HD2	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:31:LEU:HD11	1:G:201:LEU:HB2	1.90	0.54
1:H:33:ARG:O	1:H:33:ARG:HG3	2.07	0.54
1:H:81:ILE:HG21	1:H:131:CYS:SG	2.48	0.54
1:H:59:VAL:HG21	1:H:85:LEU:CD1	2.37	0.54
2:I:1111:GLN:HB2	2:I:1230:MET:HE1	1.89	0.54
2:I:150:HIS:CE1	2:I:454:ARG:HG3	2.42	0.54
3:J:972:LYS:HB3	3:J:1002:VAL:HG13	1.90	0.54
2:O:1184:THR:OG1	2:O:1189:GLY:HA3	2.07	0.54
2:O:1257:GLN:OE1	3:P:346:ARG:HG3	2.07	0.54
2:O:671:LEU:HD22	2:O:1186:VAL:CG1	2.37	0.54
3:P:325:LYS:HG3	3:P:329:ASP:CB	2.38	0.54
3:P:579:LEU:O	3:P:583:VAL:HG23	2.08	0.54
5:R:395:THR:HA	5:R:404:LEU:CD1	2.38	0.54
2:C:1012:GLU:HA	2:C:1015:ALA:HB3	1.90	0.54
2:C:851:THR:HG22	2:C:852:ALA:H	1.73	0.54
3:D:40:LYS:HZ2	3:D:53:ARG:HH21	1.55	0.54
3:D:963:VAL:HG23	3:D:980:THR:OG1	2.08	0.54
4:E:5:THR:HG22	4:E:7:GLN:H	1.73	0.54
2:I:592:ARG:NH2	2:I:599:VAL:HG12	2.22	0.54
2:I:725:GLN:CD	2:I:735:LYS:HE2	2.27	0.54
1:M:230:ALA:CB	1:N:11:PRO:HG2	2.38	0.54
1:N:102:LEU:CD1	1:N:114:ASP:CB	2.82	0.54
2:O:1109:ILE:HD13	2:O:1109:ILE:N	2.23	0.54
2:O:801:ARG:HG2	2:O:1229:TYR:CZ	2.43	0.54
2:O:771:VAL:HG22	2:O:783:LEU:HD22	1.89	0.54
3:P:1005:LYS:HD2	3:P:1011:VAL:CG1	2.37	0.54
3:P:205:LEU:HD11	3:P:217:LEU:CB	2.38	0.54
3:P:363:LEU:HA	3:P:450:HIS:CE1	2.43	0.54
3:P:650:LYS:HG3	3:P:743:MET:HE1	1.90	0.54
3:P:786:THR:HG22	3:P:787:ALA:N	2.21	0.54
5:R:503:GLU:HB3	5:R:504:PRO:HD2	1.88	0.54
6:4:33:DT:H2"	6:4:34:DG:C8	2.43	0.54
5:L:509:THR:HG23	7:5:22:DA:N6	2.23	0.54
2:C:275:ARG:NH1	2:C:279:LYS:HB2	2.23	0.54
2:C:335:THR:CG2	2:C:336:LEU:N	2.70	0.54
2:C:615:VAL:HA	2:C:638:SER:HB2	1.90	0.54
2:C:851:THR:CG2	2:C:852:ALA:H	2.21	0.54
3:D:1251:LYS:O	3:D:1255:VAL:HG23	2.08	0.54
3:D:201:LEU:CB	3:D:221:ILE:HD11	2.38	0.54
2:I:1281:TYR:CE2	3:J:431:ARG:HB2	2.43	0.54
2:I:578:TYR:CE2	2:I:656:SER:OG	2.61	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1061:VAL:O	3:J:1104:LYS:N	2.40	0.54
3:J:169:LEU:HD12	3:J:173:GLY:HA2	1.89	0.54
3:J:223:LEU:O	3:J:227:PHE:HB2	2.08	0.54
2:O:809:GLY:O	3:P:357:VAL:HG11	2.08	0.54
3:P:697:MET:CE	3:P:737:ILE:HG23	2.37	0.54
1:A:208:ASN:H	1:A:208:ASN:HD22	1.55	0.54
1:A:221:ALA:HB1	1:B:228:LEU:HD22	1.90	0.54
2:C:1272:GLU:HB3	2:C:1276:TRP:CZ2	2.43	0.54
2:C:521:LEU:HD21	2:C:686:GLN:HB3	1.89	0.54
2:C:530:ILE:HD11	2:C:575:LEU:H	1.73	0.54
2:C:828:PHE:O	2:C:1234:LYS:NZ	2.36	0.54
2:C:83:GLN:O	2:C:87:ILE:HG13	2.08	0.54
3:D:334:LYS:O	3:D:339:ARG:HB2	2.07	0.54
3:D:842:ARG:HH12	3:D:1254:GLU:CD	2.09	0.54
4:E:61:ASN:HA	4:E:64:LEU:HD12	1.90	0.54
5:F:428:SER:HB2	6:1:40:DA:OP2	2.08	0.54
2:I:1258:PRO:HG2	3:J:346:ARG:CB	2.38	0.54
3:J:805:GLN:CB	3:J:1347:LEU:CD1	2.68	0.54
5:L:431:ALA:O	5:L:435:ILE:HG13	2.08	0.54
5:L:507:MET:O	5:L:519:LEU:HB3	2.08	0.54
1:M:38:THR:HG21	1:N:46:ILE:CD1	2.38	0.54
2:O:453:ILE:N	2:O:453:ILE:HD13	2.23	0.54
3:P:650:LYS:HE3	3:P:743:MET:HE2	1.89	0.54
5:R:117:ILE:HG23	5:R:421:TYR:CB	2.36	0.54
5:R:441:ARG:HG2	5:R:442:SER:N	2.23	0.54
5:R:457:ILE:HD13	5:R:460:ILE:HD12	1.90	0.54
5:R:503:GLU:CG	5:R:504:PRO:HD2	2.37	0.54
5:R:564:GLY:HA2	5:R:567:MET:HB2	1.88	0.54
2:C:1161:LEU:O	2:C:1163:THR:N	2.41	0.53
2:C:13:LYS:HZ1	2:C:1151:LEU:H	1.55	0.53
3:D:1145:PHE:CE1	3:D:1256:ILE:HD13	2.43	0.53
3:D:425:ARG:NH2	3:D:464:ASP:OD2	2.41	0.53
2:I:1020:GLU:O	2:I:1024:GLU:N	2.35	0.53
2:I:184:LEU:HD11	2:I:389:PHE:CE2	2.43	0.53
2:I:36:GLN:NE2	2:I:36:GLN:O	2.41	0.53
3:J:1132:LYS:O	3:J:1133:ASP:HB2	2.08	0.53
3:J:1342:ASP:OD1	3:J:1344:LEU:HG	2.07	0.53
3:J:24:LEU:CD2	3:J:116:PHE:CZ	2.91	0.53
3:J:955:LYS:HG3	3:J:1012:ALA:HA	1.88	0.53
1:M:100:LEU:HD22	1:M:115:ILE:HG22	1.84	0.53
1:N:179:PRO:HB3	1:N:208:ASN:HD22	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:799:ARG:O	3:P:803:VAL:HG23	2.06	0.53
3:P:960:LEU:HD23	3:P:982:LEU:HD13	1.91	0.53
1:B:190:ALA:N	1:B:199:ASP:HA	2.20	0.53
2:C:1088:ASP:OD1	2:C:1088:ASP:N	2.38	0.53
2:C:1111:GLN:O	2:C:1230:MET:CE	2.56	0.53
2:C:58:PRO:HG3	2:C:69:GLN:HG2	1.90	0.53
3:D:111:THR:HG23	3:D:112:ALA:N	2.23	0.53
3:D:379:PRO:HG2	3:D:380:PHE:N	2.22	0.53
1:G:9:LEU:HD23	1:G:32:GLU:CG	2.39	0.53
1:H:86:LYS:CE	1:H:173:VAL:HG12	2.38	0.53
2:C:259:GLY:HA3	2:I:120:GLN:HB2	1.89	0.53
2:I:178:PRO:HG3	2:I:395:TYR:OH	2.08	0.53
3:J:806:ASP:OD1	3:J:1346:GLY:HA2	2.08	0.53
3:J:294:ASN:ND2	5:L:101:TYR:CD1	2.76	0.53
3:J:479:GLU:O	3:J:484:MET:HG3	2.08	0.53
3:J:491:LEU:HD23	3:J:498:PRO:CA	2.38	0.53
5:L:463:LEU:HD23	5:L:487:MET:SD	2.48	0.53
1:M:48:LEU:CD2	1:M:180:VAL:HB	2.30	0.53
1:M:47:LEU:O	1:M:51:MET:HB2	2.07	0.53
1:N:156:SER:HA	1:N:159:ILE:HG22	1.90	0.53
1:M:11:PRO:O	1:N:231:PHE:CE1	2.60	0.53
2:O:564:PRO:CB	8:9:13:GTP:PA	2.96	0.53
2:O:1282:GLY:O	3:P:1361:THR:OG1	2.23	0.53
3:P:205:LEU:HD11	3:P:217:LEU:HB2	1.90	0.53
5:R:461:ASN:HA	7:8:26:DT:C7	2.39	0.53
7:5:19:DA:H3'	7:5:19:DA:C8	2.43	0.53
7:8:11:DA:H2'	7:8:12:DG:C8	2.43	0.53
2:C:1330:ILE:CD1	2:C:1337:ILE:CD1	2.85	0.53
2:C:38:PHE:HE1	2:C:461:GLU:HA	1.74	0.53
2:C:859:GLU:HA	2:C:862:LEU:HD12	1.89	0.53
3:D:886:VAL:CG1	3:D:1258:ARG:HG3	2.29	0.53
3:D:417:ARG:HG2	3:D:418:GLU:HG2	1.90	0.53
5:F:310:GLU:OE1	5:F:355:ILE:HD13	2.08	0.53
3:D:263:SER:N	5:F:507:MET:HE3	2.24	0.53
2:I:1284:ALA:O	2:I:1287:LEU:HB3	2.08	0.53
2:I:508:SER:OG	7:5:21:DG:N2	2.41	0.53
3:J:1217:PRO:HG2	3:J:1218:HIS:H	1.73	0.53
3:J:42:GLU:OE1	5:L:451:ARG:HG2	2.07	0.53
3:J:481:ARG:O	4:K:6:VAL:HG21	2.07	0.53
3:J:584:PRO:CD	3:J:620:PHE:CZ	2.91	0.53
3:J:672:LEU:C	3:J:673:VAL:CG2	2.77	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:102:LEU:HD13	1:M:115:ILE:HG12	1.91	0.53
2:O:285:ILE:CG2	2:O:286:GLU:N	2.71	0.53
2:O:500:ALA:O	2:O:504:GLU:HG2	2.08	0.53
2:O:501:ALA:O	2:O:504:GLU:HB2	2.08	0.53
6:7:52:DT:C2	6:7:53:DG:C6	2.97	0.53
3:D:1005:LYS:HD3	3:D:1009:GLU:OE1	2.08	0.53
3:D:1037:PHE:HE2	3:D:1059:LEU:HD13	1.73	0.53
3:D:825:VAL:HB	3:D:1242:ARG:HH12	1.73	0.53
3:D:783:LEU:HD13	3:D:783:LEU:H	1.74	0.53
3:J:1220:ILE:HG23	3:J:1224:ARG:HD2	1.90	0.53
3:J:327:LEU:O	3:J:331:ILE:HG12	2.09	0.53
5:L:413:MET:O	5:L:417:ASP:CG	2.47	0.53
2:I:897:PRO:HB3	5:L:563:PHE:O	2.09	0.53
2:O:1056:VAL:HG12	2:O:1058:ARG:HG3	1.89	0.53
2:O:185:ASP:CG	2:O:200:ARG:HE	2.11	0.53
2:O:896:THR:HG22	2:O:899:GLU:OE1	2.09	0.53
3:P:1190:ILE:HD13	3:P:1196:LEU:HD21	1.89	0.53
3:P:423:LEU:HD12	3:P:437:PHE:CE1	2.43	0.53
3:P:632:ALA:O	3:P:635:SER:OG	2.25	0.53
5:R:507:MET:O	5:R:519:LEU:HB3	2.08	0.53
2:C:297:VAL:HG22	2:C:315:MET:H	1.73	0.53
2:C:56:VAL:O	2:C:59:ILE:HG12	2.08	0.53
2:C:944:ARG:HG3	2:C:948:ILE:HD11	1.91	0.53
3:D:1040:MET:CE	3:D:1046:ILE:HG21	2.37	0.53
3:D:128:LEU:HD11	3:D:189:LEU:HD21	1.91	0.53
3:D:1307:LEU:CD1	3:D:1312:ALA:HA	2.39	0.53
5:F:381:GLU:O	5:F:384:LEU:HG	2.08	0.53
2:I:69:GLN:HB2	2:I:101:ARG:HB2	1.91	0.53
2:I:1085:MET:HA	2:I:1085:MET:CE	2.38	0.53
2:I:756:TYR:CD2	2:I:756:TYR:N	2.74	0.53
3:J:1100:PHE:CD2	3:J:1100:PHE:N	2.77	0.53
3:J:338:PHE:HE2	3:J:1328:THR:HG21	1.73	0.53
3:J:115:TRP:CZ3	3:J:1329:THR:O	2.62	0.53
3:J:332:LYS:HE3	3:J:1328:THR:H	1.72	0.53
5:L:105:MET:HB3	5:L:384:LEU:HD13	1.91	0.53
1:M:102:LEU:CD2	1:M:130:ILE:CD1	2.84	0.53
2:O:451:ARG:HH12	2:O:538:LEU:HD11	1.74	0.53
2:O:558:VAL:CG1	2:O:573:ASN:HB3	2.37	0.53
3:P:1275:LEU:O	3:P:1278:GLU:HG2	2.09	0.53
3:P:1221:LEU:HD11	3:P:1304:ARG:C	2.28	0.53
3:P:1313:SER:O	3:P:1316:THR:HG23	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:370:ALA:HA	5:R:373:ARG:CZ	2.37	0.53
2:C:196:VAL:HG23	2:C:206:ALA:CA	2.38	0.53
2:C:806:PRO:HG2	3:D:632:ALA:O	2.09	0.53
2:C:807:TRP:CG	2:C:817:LEU:CD1	2.91	0.53
3:D:1263:LYS:CG	3:D:1281:GLU:HA	2.29	0.53
3:D:830:ASP:HB3	3:D:832:LYS:HD3	1.90	0.53
5:F:92:GLY:C	5:F:93:ARG:HG3	2.27	0.53
1:G:88:LEU:HD12	1:G:89:ALA:H	1.74	0.53
2:I:1304:MET:CE	2:I:1308:ILE:HD11	2.38	0.53
2:I:73:TYR:HB3	2:I:98:VAL:HG22	1.89	0.53
1:H:83:LEU:HD21	3:J:526:VAL:HB	1.91	0.53
3:J:840:LEU:HD21	3:J:866:GLU:HG3	1.90	0.53
2:O:1286:THR:O	2:O:1289:GLU:HB2	2.09	0.53
2:O:708:VAL:HG11	2:O:794:LEU:HD22	1.89	0.53
2:O:73:TYR:HB2	2:O:96:LEU:HD11	1.90	0.53
3:P:245:LEU:HD21	3:P:249:LEU:HB2	1.91	0.53
2:O:1268:GLN:HE22	3:P:351:GLY:HA2	1.73	0.53
3:P:449:LEU:HD12	3:P:450:HIS:N	2.22	0.53
2:O:1109:ILE:HD11	3:P:740:LEU:HD22	1.90	0.53
3:P:797:THR:O	3:P:801:VAL:HG23	2.07	0.53
5:R:451:ARG:NH1	6:7:32:DA:OP2	2.42	0.53
1:A:58:GLU:HB2	1:A:145:LYS:HB3	1.90	0.53
1:A:68:TYR:HE2	2:C:927:THR:HB	1.74	0.53
2:C:15:PHE:HA	2:C:1155:VAL:CG2	2.38	0.53
2:C:1161:LEU:HD12	2:C:1164:PHE:HB2	1.89	0.53
2:C:1186:VAL:HG12	2:C:1187:PHE:CE2	2.44	0.53
2:C:533:LEU:HD11	2:C:571:LEU:HD13	1.90	0.53
2:C:530:ILE:HD12	2:C:573:ASN:O	2.08	0.53
2:C:972:PHE:HE2	2:C:994:ARG:O	1.92	0.53
3:D:1048:ARG:NE	3:D:1050:THR:OG1	2.41	0.53
3:D:245:LEU:HD21	3:D:249:LEU:HB2	1.90	0.53
3:D:615:LYS:N	3:D:616:PRO:HD2	2.24	0.53
3:D:94:GLN:O	3:D:97:VAL:HG23	2.07	0.53
5:F:489:MET:HB3	5:F:490:PRO:CD	2.37	0.53
1:G:49:SER:HB2	1:H:33:ARG:NH2	2.23	0.53
2:I:1192:GLU:HA	2:I:1195:ILE:HD12	1.90	0.53
3:J:244:VAL:HG13	3:J:269:TYR:CE1	2.43	0.53
3:J:424:ASN:N	3:J:466:MET:HE1	2.23	0.53
3:J:918:ILE:O	3:J:922:SER:OG	2.23	0.53
5:L:491:GLU:HA	5:L:494:ILE:HD13	1.89	0.53
1:M:35:PHE:HE2	1:N:50:SER:OG	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1111:GLN:O	2:O:1115:THR:OG1	2.26	0.53
2:O:283:LYS:O	2:O:284:LEU:HG	2.08	0.53
3:P:355:ILE:HG13	3:P:355:ILE:O	2.09	0.53
2:O:1099:ASN:HD21	3:P:504:GLN:HE21	1.55	0.53
3:P:746:LEU:HD22	3:P:755:ILE:O	2.09	0.53
5:R:290:LEU:O	5:R:294:GLN:HB3	2.08	0.53
5:R:401:PHE:HB2	5:R:402:LEU:HD23	1.89	0.53
5:R:584:ARG:HB2	5:R:584:ARG:CZ	2.35	0.53
6:4:59:DG:H2"	6:4:60:DC:C6	2.44	0.53
1:A:232:VAL:CG2	1:B:221:ALA:HB1	2.35	0.53
2:C:1278:LEU:HD22	2:C:1286:THR:OG1	2.09	0.53
3:D:518:VAL:O	3:D:520:ALA:N	2.42	0.53
3:D:664:ILE:HG21	3:D:681:LYS:HD3	1.90	0.53
2:I:165:HIS:HB2	2:I:168:GLY:H	1.72	0.53
3:J:268:LEU:HD21	3:J:324:LEU:HD12	1.91	0.53
2:I:812:PHE:CE1	3:J:504:GLN:HB3	2.44	0.53
5:L:490:PRO:C	5:L:494:ILE:HD13	2.29	0.53
5:L:520:GLY:HA2	5:L:523:ILE:CD1	2.39	0.53
1:M:61:ILE:HG13	1:M:142:MET:HB2	1.91	0.53
1:M:48:LEU:HG	1:M:183:ILE:CG2	2.39	0.53
2:O:1232:MET:HE2	2:O:1232:MET:HA	1.91	0.53
2:O:514:PHE:CE2	7:8:19:DA:N3	2.76	0.53
3:P:584:PRO:HD3	3:P:620:PHE:CD1	2.44	0.53
2:C:1283:ALA:HB1	3:D:479:GLU:CD	2.29	0.53
2:C:1323:PHE:HD2	3:D:1352:ILE:O	1.91	0.53
3:D:1285:VAL:HG13	3:D:1286:LYS:HG3	1.91	0.53
3:D:242:LEU:HD12	3:D:243:PRO:HD2	1.90	0.53
3:D:394:ILE:HD11	5:F:539:SER:HB2	1.91	0.53
3:D:70:CYS:CB	3:D:90:VAL:HG11	2.39	0.53
1:H:155:ALA:H	1:H:174:ASP:CG	2.12	0.53
2:I:1072:ASN:ND2	2:I:1111:GLN:CD	2.62	0.53
3:J:930:LEU:C	3:J:1134:ILE:HG13	2.30	0.53
3:J:1153:PRO:HA	3:J:1214:PRO:HG2	1.90	0.53
3:J:1165:PHE:HA	3:J:1175:LEU:CD1	2.38	0.53
3:J:1280:VAL:CG1	3:J:1281:GLU:N	2.71	0.53
3:J:1344:LEU:HA	3:J:1349:GLU:OE1	2.08	0.53
3:J:30:ILE:HD13	3:J:243:PRO:HD3	1.90	0.53
3:J:34:SER:HG	3:J:104:HIS:CG	2.23	0.53
5:L:102:MET:HE2	6:4:42:DG:C4	2.38	0.53
5:L:453:PRO:HB2	5:L:455:HIS:CD2	2.44	0.53
5:L:96:ASP:HB3	5:L:99:ARG:HG2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1223:ARG:HH11	3:P:637:ALA:HA	1.74	0.53
2:O:1268:GLN:OE1	3:P:350:SER:HB2	2.09	0.53
3:P:1353:VAL:CG2	3:P:1355:ARG:CD	2.84	0.53
3:P:363:LEU:CG	3:P:487:THR:HG22	2.39	0.53
2:C:151:ARG:NH1	2:C:445:ILE:CG2	2.71	0.53
2:C:82:VAL:HG23	2:C:83:GLN:HG3	1.91	0.53
3:D:734:ALA:O	3:D:737:ILE:HB	2.09	0.53
3:D:872:LEU:CD2	3:D:875:ASN:HD22	2.21	0.53
3:D:909:ILE:HD11	3:D:913:GLU:HB3	1.90	0.53
3:D:964:LYS:HB2	3:D:977:SER:HB3	1.90	0.53
4:E:39:VAL:HG13	4:E:40:PRO:HG2	1.89	0.53
1:G:211:ILE:HG23	1:G:219:ARG:NH1	2.24	0.53
1:H:75:GLN:HG2	1:H:134:THR:HG23	1.91	0.53
2:I:161:LYS:C	2:I:161:LYS:HE2	2.29	0.53
2:I:120:GLN:CG	2:I:489:PRO:HG2	2.38	0.53
2:I:669:PRO:HB2	2:I:670:PHE:CD2	2.44	0.53
3:J:1317:GLU:O	3:J:1318:SER:CB	2.55	0.53
1:M:31:LEU:CD1	1:M:39:LEU:CD1	2.87	0.53
2:O:678:ARG:NE	2:O:1106:ARG:HB3	2.24	0.53
2:O:82:VAL:CG2	2:O:83:GLN:N	2.72	0.53
3:P:1054:THR:OG1	3:P:1056:LEU:HG	2.09	0.53
3:P:805:GLN:HB2	3:P:1347:LEU:CG	2.39	0.53
3:P:674:THR:OG1	3:P:677:GLU:HG3	2.08	0.53
6:4:45:DT:C3'	6:4:45:DT:C6	2.91	0.52
7:8:24:DT:H4'	7:8:24:DT:OP1	2.07	0.52
2:C:1065:LYS:O	2:C:1235:LEU:HG	2.08	0.52
2:C:144:VAL:CG2	2:C:515:MET:HB2	2.36	0.52
2:C:178:PRO:HA	2:C:397:LEU:HD23	1.91	0.52
2:C:433:ILE:O	2:C:437:ASN:OD1	2.27	0.52
2:C:897:PRO:HB2	5:F:565:ILE:CG1	2.39	0.52
2:C:944:ARG:HG3	2:C:948:ILE:CD1	2.39	0.52
3:D:228:VAL:HG12	3:D:228:VAL:O	2.08	0.52
3:D:395:LYS:C	3:D:398:LYS:CG	2.74	0.52
5:F:262:VAL:HG12	5:F:263:PRO:HD2	1.91	0.52
1:G:16:ILE:HG23	1:G:26:VAL:HG13	1.90	0.52
1:G:98:VAL:HG23	1:G:146:VAL:HB	1.91	0.52
2:I:210:LEU:HB3	2:I:220:ILE:HD11	1.86	0.52
2:I:724:VAL:HG21	2:I:771:VAL:CG2	2.39	0.52
3:J:105:ILE:CG1	3:J:244:VAL:HG21	2.38	0.52
3:J:398:LYS:HE2	5:L:532:LEU:CD2	2.38	0.52
1:M:184:ALA:HB2	2:O:1091:GLY:HA3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1256:GLN:OE1	2:O:1256:GLN:HA	2.09	0.52
3:P:1233:ILE:HD13	3:P:1257:VAL:CG2	2.39	0.52
2:O:1112:ILE:HD11	3:P:639:VAL:O	2.07	0.52
5:R:543:ALA:O	5:R:547:VAL:HG23	2.09	0.52
6:4:47:DC:C2'	6:4:48:DA:H5"	2.39	0.52
1:A:38:THR:OG1	1:B:45:ARG:HD3	2.09	0.52
2:C:528:ARG:HD2	2:C:663:VAL:CG2	2.40	0.52
3:D:1167:LYS:O	3:D:1174:ARG:HD2	2.09	0.52
3:D:281:ARG:NH2	5:F:441:ARG:NH2	2.16	0.52
2:C:1326:LEU:HD22	3:D:342:LEU:HD11	1.91	0.52
3:D:379:PRO:HA	3:D:382:TYR:HD2	1.74	0.52
3:D:467:ALA:C	3:D:468:VAL:HG22	2.29	0.52
4:E:49:ILE:O	4:E:53:GLU:HG3	2.09	0.52
5:F:583:THR:HG22	5:F:587:ILE:HG12	1.91	0.52
2:I:1031:ALA:C	2:I:1033:ARG:N	2.63	0.52
2:I:1064:ASP:OD1	2:I:1238:LEU:HD22	2.09	0.52
2:I:1292:THR:HG23	2:I:1293:VAL:H	1.74	0.52
2:I:708:VAL:CG1	2:I:794:LEU:HD22	2.38	0.52
2:I:798:GLN:NE2	2:I:827:ARG:HG2	2.24	0.52
3:J:1272:SER:HB2	3:J:1274:PHE:CE2	2.44	0.52
3:J:201:LEU:HD11	3:J:220:ARG:NH1	2.23	0.52
3:J:251:PRO:HG2	5:L:507:MET:HE1	1.91	0.52
5:L:460:ILE:HA	5:L:463:LEU:HD12	1.92	0.52
5:L:551:LEU:CD2	5:L:597:LYS:HD2	2.39	0.52
1:M:224:LEU:CG	1:M:225:ALA:N	2.48	0.52
1:N:208:ASN:C	1:N:210:THR:H	2.12	0.52
2:O:255:ILE:CG2	2:O:285:ILE:HD13	2.39	0.52
1:M:68:TYR:HE2	2:O:927:THR:HG1	1.51	0.52
5:R:590:ILE:HG12	5:R:593:LYS:HZ1	1.74	0.52
2:C:542:ARG:NH2	6:1:49:DG:C8	2.77	0.52
2:C:514:PHE:CZ	7:2:19:DA:C1'	2.93	0.52
2:I:1269:ARG:N	7:5:16:DC:OP1	2.38	0.52
2:O:564:PRO:HB3	8:9:13:GTP:O5'	2.10	0.52
1:A:225:ALA:CB	1:B:228:LEU:HD13	2.32	0.52
2:C:1040:ASP:N	2:C:1040:ASP:OD1	2.42	0.52
2:C:1288:GLN:HG2	2:C:1315:MET:CE	2.38	0.52
2:C:1314:GLN:HG2	2:C:1315:MET:H	1.75	0.52
2:C:190:PRO:HG2	2:C:191:LYS:HG3	1.92	0.52
2:C:448:LEU:HD13	2:C:557:ARG:HD2	1.91	0.52
3:D:1319:PHE:CE2	3:D:1342:ASP:HB2	2.44	0.52
3:D:431:ARG:HH21	3:D:904:ALA:CB	2.21	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:87:VAL:HG12	5:F:103:ARG:HD3	1.90	0.52
1:H:208:ASN:O	1:H:210:THR:N	2.41	0.52
2:I:1151:LEU:CD2	2:I:1198:LEU:CD1	2.85	0.52
2:I:719:LYS:O	2:I:779:ARG:HG3	2.09	0.52
2:I:931:VAL:HG13	2:I:1052:VAL:HG13	1.91	0.52
2:I:936:ARG:HG2	2:I:937:ASP:N	2.24	0.52
3:J:1099:TYR:HE2	3:J:1195:GLN:HE22	1.55	0.52
3:J:1165:PHE:HA	3:J:1175:LEU:HD12	1.92	0.52
3:J:1237:VAL:HG12	3:J:1241:TYR:CE2	2.43	0.52
3:J:657:ALA:O	3:J:661:VAL:HG23	2.10	0.52
3:J:749:LYS:NZ	3:J:753:SER:HB2	2.24	0.52
1:N:85:LEU:HD21	1:N:130:ILE:HG21	1.90	0.52
2:O:1253:LEU:HG	2:O:1253:LEU:O	2.00	0.52
2:O:1253:LEU:HD23	3:P:251:PRO:HG2	1.91	0.52
3:P:744:ARG:HD2	3:P:763:PHE:HE2	1.74	0.52
5:R:387:VAL:HA	5:R:435:ILE:HD13	1.91	0.52
3:D:1267:VAL:O	3:D:1268:ASN:HB2	2.10	0.52
3:D:1319:PHE:HD2	3:D:1340:LYS:HD3	1.73	0.52
3:D:496:GLY:CA	3:D:903:LEU:CD2	2.86	0.52
3:D:820:ILE:CD1	3:D:884:SER:HB2	2.34	0.52
1:H:188:GLU:O	1:H:200:LYS:HB2	2.09	0.52
2:I:1048:LYS:O	2:I:1049:ILE:CG1	2.58	0.52
2:I:1331:ARG:HD3	3:J:33:TRP:CD2	2.45	0.52
5:L:412:LEU:HD12	5:L:415:ALA:CB	2.31	0.52
3:P:28:ASP:OD1	3:P:29:MET:N	2.43	0.52
3:P:423:LEU:CD1	3:P:437:PHE:CD1	2.92	0.52
3:P:589:TYR:CE2	3:P:593:ASN:HB2	2.45	0.52
1:A:13:LEU:HA	1:A:28:LEU:CD2	2.39	0.52
1:A:44:ARG:HG3	1:A:183:ILE:HD13	1.92	0.52
3:D:133:ARG:HA	3:D:136:GLU:CD	2.30	0.52
1:G:60:GLU:O	1:G:142:MET:HB2	2.09	0.52
1:G:53:GLY:HA3	1:G:179:PRO:HG3	1.91	0.52
2:I:459:MET:O	2:I:462:ASN:HB2	2.09	0.52
2:I:550:VAL:O	3:J:777:HIS:CE1	2.63	0.52
3:J:110:PRO:CB	3:J:238:ILE:HG21	2.40	0.52
3:J:322:ARG:NE	5:L:510:PRO:HD3	2.25	0.52
3:J:46:TYR:CD2	5:L:500:ILE:HD11	2.44	0.52
5:L:413:MET:O	5:L:417:ASP:OD2	2.27	0.52
2:O:830:THR:HG23	2:O:1234:LYS:HZ3	1.72	0.52
2:O:263:VAL:HG12	2:O:264:GLU:O	2.08	0.52
2:O:715:THR:HG22	2:O:786:GLY:N	2.18	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:757:THR:HG22	2:O:758:ARG:N	2.25	0.52
2:O:980:VAL:HG12	2:O:980:VAL:O	2.08	0.52
3:P:161:THR:HG23	3:P:164:GLN:HE22	1.74	0.52
3:P:161:THR:HG23	3:P:164:GLN:NE2	2.25	0.52
3:P:377:PHE:HB2	3:P:412:LEU:HD11	1.91	0.52
3:P:688:ALA:O	3:P:692:ARG:CD	2.50	0.52
5:R:573:LEU:HD11	5:R:584:ARG:HA	1.92	0.52
5:F:585:GLU:HG3	7:2:47:DC:C5	2.44	0.52
2:C:808:ASN:C	3:D:629:PHE:HB3	2.30	0.52
3:D:1346:GLY:N	3:D:1349:GLU:CD	2.62	0.52
3:D:28:ASP:HA	3:D:31:ARG:HD2	1.90	0.52
5:F:490:PRO:HG2	5:F:493:LYS:CB	2.39	0.52
5:F:587:ILE:HD13	5:F:587:ILE:N	2.25	0.52
2:I:1047:LEU:C	2:I:1048:LYS:HG3	2.30	0.52
2:I:1200:LYS:HG3	2:I:1206:THR:HG21	1.92	0.52
2:I:28:LEU:HD22	2:I:527:LYS:HD2	1.91	0.52
2:I:232:ILE:HG21	2:I:326:SER:HB3	1.90	0.52
2:I:433:ILE:O	2:I:437:ASN:OD1	2.28	0.52
3:J:740:LEU:O	3:J:762:ASN:HB2	2.10	0.52
3:J:322:ARG:HH22	5:L:506:SER:CB	2.23	0.52
5:L:554:ARG:O	5:L:558:VAL:HG23	2.09	0.52
2:O:209:ILE:HG23	2:O:210:LEU:N	2.24	0.52
2:O:260:LYS:HD3	2:O:260:LYS:H	1.74	0.52
2:O:253:PHE:CZ	2:O:288:PRO:HD2	2.44	0.52
2:O:667:LEU:HD22	2:O:705:GLU:OE2	2.09	0.52
2:O:726:TYR:CB	2:O:733:VAL:HG22	2.38	0.52
3:P:297:ARG:HH12	5:R:100:MET:CB	2.22	0.52
3:P:297:ARG:HH12	5:R:100:MET:HB2	1.73	0.52
5:R:220:LYS:HE3	5:R:259:PHE:HE1	1.75	0.52
1:A:45:ARG:NH1	2:C:1216:ARG:HA	2.22	0.52
2:C:7:GLU:O	2:C:11:ILE:HG13	2.10	0.52
2:C:1147:ARG:HH22	2:C:1201:LEU:HD11	1.74	0.52
3:D:709:ARG:O	3:D:710:ASP:HB3	2.10	0.52
3:D:854:ALA:O	3:D:855:ASP:HB2	2.09	0.52
2:C:1282:GLY:HA3	4:E:17:PHE:CE1	2.44	0.52
5:F:452:ILE:CB	5:F:457:ILE:HD11	2.40	0.52
1:G:147:GLN:O	1:G:177:TYR:HE1	1.93	0.52
1:G:31:LEU:HD12	1:G:201:LEU:HB2	1.92	0.52
2:I:822:VAL:HG11	2:I:1060:ILE:CD1	2.40	0.52
2:I:1270:PHE:N	3:J:345:LYS:O	2.42	0.52
2:I:277:LEU:O	2:I:277:LEU:HG	2.08	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:980:VAL:O	2:I:980:VAL:CG1	2.58	0.52
3:J:154:LEU:HD13	3:J:158:GLN:HG2	1.91	0.52
3:J:372:MET:O	3:J:376:LEU:HG	2.10	0.52
3:J:602:SER:HA	3:J:605:LEU:CD1	2.40	0.52
3:J:902:ASP:HB2	3:J:909:ILE:CB	2.40	0.52
4:K:21:LEU:HD22	4:K:25:ARG:HD3	1.90	0.52
1:M:102:LEU:HD13	1:M:115:ILE:CG1	2.40	0.52
3:P:749:LYS:CE	3:P:755:ILE:HA	2.39	0.52
5:R:390:ILE:CD1	5:R:432:THR:HG23	2.40	0.52
2:C:1331:ARG:HG3	2:C:1337:ILE:CG2	2.39	0.52
2:C:170:VAL:HG23	3:D:1065:ALA:HA	1.91	0.52
2:C:257:ALA:CB	2:C:277:LEU:CD1	2.87	0.52
3:D:1175:LEU:HD12	3:D:1176:VAL:H	1.74	0.52
3:D:1264:ALA:HB2	3:D:1304:ARG:HA	1.90	0.52
3:D:193:ASP:OD2	3:D:196:GLN:HG3	2.10	0.52
3:D:499:ILE:HG22	3:D:500:ILE:HG12	1.91	0.52
2:C:808:ASN:HA	3:D:629:PHE:HB3	1.92	0.52
2:I:1326:LEU:CD2	3:J:342:LEU:CD1	2.87	0.52
2:I:298:ALA:HB3	2:I:334:GLU:O	2.10	0.52
3:J:806:ASP:OD1	3:J:1346:GLY:CA	2.58	0.52
3:J:864:LEU:HD22	3:J:868:TRP:HB2	1.92	0.52
3:J:482:ALA:HA	4:K:6:VAL:HG21	1.91	0.52
5:L:402:LEU:O	5:L:406:GLN:HG2	2.10	0.52
2:O:390:PHE:O	2:O:419:ILE:HG21	2.09	0.52
2:O:805:MET:HB2	2:O:806:PRO:CD	2.40	0.52
2:O:859:GLU:HG3	2:O:862:LEU:HB2	1.90	0.52
3:P:930:LEU:HB3	3:P:1134:ILE:HD12	1.92	0.52
2:O:1326:LEU:HD22	3:P:342:LEU:CD1	2.39	0.52
3:P:518:VAL:O	3:P:520:ALA:N	2.42	0.52
5:R:237:ALA:O	5:R:238:LYS:HB2	2.10	0.52
5:R:585:GLU:HG3	7:8:47:DC:N4	2.25	0.52
6:1:53:DG:H2"	6:1:54:DA:H5'	1.90	0.52
1:B:155:ALA:H	1:B:174:ASP:CG	2.13	0.52
2:C:1333:LEU:HG	3:D:327:LEU:HD13	1.92	0.52
2:C:14:ASP:O	2:C:1155:VAL:HG22	2.10	0.52
2:C:177:ILE:HA	2:C:183:TRP:CD1	2.45	0.52
2:C:341:LEU:HD21	3:D:1044:GLN:NE2	2.25	0.52
2:C:726:TYR:HA	2:C:773:LEU:HD11	1.92	0.52
2:C:974:ARG:O	2:C:978:VAL:HG23	2.10	0.52
3:D:860:ARG:O	3:D:862:THR:HG23	2.10	0.52
2:I:1330:ILE:CG2	2:I:1335:ILE:HB	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:431:LYS:O	2:I:435:ILE:HG13	2.08	0.52
3:J:1285:VAL:HG13	3:J:1286:LYS:N	2.25	0.52
3:J:609:TYR:CD1	3:J:609:TYR:C	2.83	0.52
3:J:825:VAL:HG21	3:J:838:ARG:NH1	2.25	0.52
5:L:511:ILE:CD1	5:L:519:LEU:HA	2.40	0.52
1:M:61:ILE:HG23	1:M:141:SER:O	2.10	0.52
1:N:73:GLY:HA3	1:N:138:ALA:CB	2.40	0.52
1:N:85:LEU:CD2	1:N:130:ILE:HG21	2.40	0.52
2:O:1230:MET:HG2	2:O:1231:TYR:N	2.24	0.52
2:O:936:ARG:HB2	2:O:1047:LEU:O	2.10	0.52
5:R:451:ARG:O	5:R:451:ARG:HG3	2.08	0.52
1:A:28:LEU:HD11	1:B:231:PHE:CZ	2.44	0.52
2:C:16:GLY:HA2	2:C:1188:ASP:O	2.10	0.52
2:C:185:ASP:HB2	2:C:197:ARG:HB2	1.92	0.52
2:C:838:CYS:SG	2:C:886:LYS:HE2	2.49	0.52
3:D:886:VAL:HG13	3:D:1258:ARG:CB	2.40	0.52
2:C:809:GLY:CA	3:D:629:PHE:CD1	2.93	0.52
3:J:1150:PRO:HG2	3:J:1153:PRO:HG3	1.92	0.52
3:J:860:ARG:O	3:J:862:THR:HG23	2.10	0.52
3:J:609:TYR:OH	3:J:905:ARG:O	2.18	0.52
1:N:27:THR:HG22	1:N:202:VAL:HG13	1.91	0.52
1:N:82:LEU:HD22	1:N:173:VAL:HG22	1.92	0.52
3:P:1319:PHE:CZ	3:P:1342:ASP:HB2	2.45	0.52
3:P:349:TYR:O	3:P:470:VAL:HG23	2.10	0.52
3:P:44:ILE:HG22	3:P:51:PRO:HA	1.92	0.52
3:P:263:SER:N	5:R:507:MET:HB3	2.25	0.52
7:2:21:DG:H2"	7:2:22:DA:C8	2.45	0.51
7:8:22:DA:H1'	7:8:23:DT:OP1	2.10	0.51
2:C:1014:LEU:O	2:C:1017:GLN:HB3	2.10	0.51
2:C:886:LYS:HD2	2:C:916:SER:CB	2.24	0.51
3:D:163:GLU:N	3:D:163:GLU:CD	2.63	0.51
3:D:647:PRO:HG3	3:D:697:MET:HA	1.92	0.51
5:F:471:LEU:HG	5:F:476:ARG:O	2.10	0.51
2:I:556:GLY:HA2	2:I:659:GLN:O	2.10	0.51
2:I:75:LEU:CD2	2:I:127:ILE:CD1	2.88	0.51
3:J:145:VAL:O	3:J:178:ALA:HB1	2.10	0.51
3:J:403:ARG:O	3:J:404:GLU:HB2	2.09	0.51
3:J:68:TYR:O	3:J:76:LYS:HA	2.10	0.51
5:L:407:GLU:HG2	5:L:442:SER:CB	2.37	0.51
5:L:84:LEU:HG	5:L:107:THR:CG2	2.40	0.51
2:O:1290:MET:CA	2:O:1294:LYS:HD2	2.38	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:152:SER:HB3	2:O:452:ARG:HB2	1.92	0.51
2:O:557:ARG:HD3	2:O:587:LEU:HB3	1.91	0.51
3:P:424:ASN:HB3	3:P:467:ALA:HB3	1.92	0.51
3:P:555:TYR:HB3	3:P:563:LEU:CD2	2.23	0.51
4:Q:60:ASN:O	4:Q:64:LEU:HG	2.10	0.51
5:R:345:GLN:O	5:R:348:GLU:HB2	2.11	0.51
5:R:392:LYS:HG3	5:R:395:THR:HG21	1.92	0.51
6:4:47:DC:C2	6:4:48:DA:C6	2.98	0.51
2:C:1324:ASN:O	2:C:1328:LYS:HG2	2.09	0.51
2:C:217:THR:HG23	2:C:351:LEU:HD21	1.91	0.51
2:C:253:PHE:CB	2:C:288:PRO:HG2	2.38	0.51
3:D:181:GLY:O	3:D:185:ILE:HD13	1.97	0.51
3:D:275:ARG:NH1	3:D:298:MET:O	2.44	0.51
1:B:86:LYS:HB2	3:D:528:THR:HG21	1.92	0.51
3:D:843:VAL:CG2	3:D:897:HIS:O	2.58	0.51
1:G:228:LEU:HD12	1:H:228:LEU:HD12	1.92	0.51
1:H:223:ILE:HG22	1:H:227:GLN:HE21	1.75	0.51
2:I:148:GLN:NE2	2:I:533:LEU:O	2.24	0.51
2:I:719:LYS:N	2:I:719:LYS:CD	2.73	0.51
2:I:818:VAL:HG12	2:I:1096:ILE:HG23	1.92	0.51
4:K:39:VAL:HG13	4:K:40:PRO:HD2	1.93	0.51
5:L:333:VAL:O	5:L:337:VAL:HG23	2.10	0.51
5:L:353:LEU:HB3	5:L:358:VAL:HG22	1.91	0.51
5:L:403:ASP:O	5:L:406:GLN:HB2	2.10	0.51
1:M:81:ILE:HG23	1:M:130:ILE:O	2.10	0.51
1:M:56:VAL:CG1	1:M:144:ILE:CG2	2.85	0.51
2:O:758:ARG:HB2	2:O:833:ILE:HG21	1.92	0.51
3:P:1230:THR:HG23	3:P:1257:VAL:HG11	1.93	0.51
3:P:352:ARG:O	3:P:353:SER:HB2	2.09	0.51
3:P:844:THR:HB	3:P:881:LYS:O	2.10	0.51
5:R:353:LEU:HB3	5:R:358:VAL:CG2	2.41	0.51
6:1:21:DC:H2"	6:1:22:DC:C5	2.44	0.51
6:7:42:DG:P	6:7:42:DG:H3'	2.50	0.51
1:A:61:ILE:CD1	1:A:64:VAL:HG11	2.39	0.51
2:C:68:LEU:HD21	2:C:493:ILE:HD11	1.93	0.51
2:C:704:MET:HE3	2:C:708:VAL:HG23	1.91	0.51
2:C:797:GLY:HA3	2:C:1233:LEU:HD23	1.91	0.51
2:C:941:LYS:H	2:C:941:LYS:HD2	1.75	0.51
3:D:1229:VAL:HG13	3:D:1230:THR:N	2.20	0.51
3:D:1347:LEU:CD2	3:D:1357:ILE:HG23	2.40	0.51
3:D:275:ARG:HG2	3:D:278:ARG:HH22	1.74	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:485:MET:CG	3:D:487:THR:OG1	2.56	0.51
3:D:712:GLN:O	3:D:713:GLU:CG	2.58	0.51
5:F:583:THR:HG21	5:F:586:ARG:CB	2.33	0.51
1:G:77:ASP:O	1:G:81:ILE:HG13	2.10	0.51
2:I:1337:ILE:CD1	3:J:22:ILE:CD1	2.89	0.51
2:I:194:LEU:HD12	2:I:195:PHE:N	2.25	0.51
2:I:36:GLN:CD	2:I:36:GLN:O	2.48	0.51
3:J:1035:VAL:CG1	3:J:1078:LEU:HD22	2.40	0.51
3:J:121:PRO:O	3:J:122:SER:CB	2.57	0.51
3:J:1274:PHE:O	3:J:1278:GLU:CG	2.59	0.51
3:J:370:LYS:HA	3:J:441:LEU:HD22	1.93	0.51
3:J:620:PHE:C	3:J:624:ILE:HD12	2.30	0.51
2:O:1233:LEU:HD23	2:O:1234:LYS:H	1.76	0.51
2:O:1304:MET:HG3	2:O:1314:GLN:O	2.09	0.51
2:O:397:LEU:HD11	2:O:420:LEU:HD21	1.92	0.51
2:O:18:ARG:HH12	2:O:623:LEU:HD12	1.71	0.51
3:P:130:MET:SD	3:P:135:ILE:HG12	2.51	0.51
3:P:218:THR:CG2	3:P:222:LYS:HE3	2.36	0.51
3:P:975:ILE:HD12	3:P:997:VAL:HG11	1.93	0.51
5:R:547:VAL:HG11	5:R:598:LEU:HD22	1.93	0.51
7:8:17:DG:N2	8:9:13:GTP:C5	2.79	0.51
1:A:229:GLU:O	1:A:233:ASP:HB2	2.10	0.51
1:B:223:ILE:O	1:B:227:GLN:HG2	2.10	0.51
2:C:242:VAL:HB	2:C:245:ARG:HG3	1.92	0.51
2:C:283:LYS:C	2:C:284:LEU:HG	2.31	0.51
3:D:97:VAL:CG1	3:D:101:ARG:HG3	2.33	0.51
3:D:370:LYS:HE3	3:D:443:GLU:HB3	1.93	0.51
3:D:608:CYS:SG	3:D:617:THR:HA	2.50	0.51
3:D:622:ASP:HA	3:D:625:MET:HE2	1.93	0.51
1:G:158:ARG:NE	1:G:172:LEU:HD11	2.25	0.51
1:G:42:ALA:HA	1:H:38:THR:CG2	2.40	0.51
2:I:271:ALA:HA	2:I:274:ILE:HD12	1.92	0.51
3:J:886:VAL:HG21	3:J:1257:VAL:HB	1.92	0.51
5:L:385:ARG:HB3	6:4:42:DG:H5'	1.93	0.51
1:N:156:SER:O	1:N:159:ILE:CG2	2.56	0.51
2:O:660:VAL:HB	2:O:661:VAL:HG22	1.92	0.51
3:P:36:GLY:HA3	3:P:61:ILE:HG12	1.92	0.51
5:R:366:SER:HA	5:R:369:GLU:OE1	2.10	0.51
6:7:49:DG:O3'	6:7:50:DT:H4'	2.11	0.51
1:B:183:ILE:O	1:B:184:ALA:HB2	2.10	0.51
2:C:1065:LYS:NZ	8:3:14:A:O2'	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:191:LYS:O	2:C:192:ASP:HB2	2.10	0.51
2:C:685:MET:HE2	2:C:1073:LYS:HD3	1.92	0.51
2:C:871:VAL:HG22	2:C:883:LEU:O	2.09	0.51
2:C:980:VAL:HG12	2:C:980:VAL:O	2.11	0.51
3:D:1146:GLU:OE2	3:D:1309:ILE:HG21	2.10	0.51
3:D:1167:LYS:HE3	3:D:1167:LYS:N	2.25	0.51
3:D:33:TRP:O	3:D:35:PHE:CE2	2.64	0.51
2:C:1258:PRO:CG	3:D:346:ARG:HB2	2.38	0.51
3:D:746:LEU:HG	3:D:758:PRO:HB3	1.93	0.51
5:F:388:ILE:HG23	5:F:389:SER:N	2.25	0.51
2:I:1176:LEU:HD22	2:I:1181:PRO:HD3	1.92	0.51
2:I:158:ASP:HB2	2:I:173:ASN:OD1	2.10	0.51
2:I:565:GLU:HG3	2:I:566:GLY:H	1.75	0.51
3:J:1115:ILE:HD13	3:J:1121:LEU:HD21	1.93	0.51
3:J:1159:ILE:HG22	3:J:1160:SER:H	1.76	0.51
3:J:497:GLU:CB	3:J:498:PRO:HD2	2.41	0.51
3:J:501:VAL:HG12	3:J:502:PRO:CD	2.36	0.51
3:J:712:GLN:C	3:J:713:GLU:HG2	2.30	0.51
1:M:100:LEU:CD2	1:M:115:ILE:HG21	2.39	0.51
3:P:113:HIS:HB3	3:P:116:PHE:CD2	2.45	0.51
2:I:1269:ARG:NH2	7:5:15:DT:OP1	2.43	0.51
1:A:71:LYS:HG2	1:A:72:GLU:H	1.75	0.51
3:D:378:LYS:HG2	3:D:382:TYR:CZ	2.46	0.51
3:D:697:MET:SD	3:D:738:ARG:HA	2.50	0.51
4:E:60:ASN:OD1	4:E:60:ASN:C	2.49	0.51
3:D:262:THR:HA	5:F:507:MET:HE3	1.93	0.51
5:F:585:GLU:O	5:F:588:ARG:HB3	2.11	0.51
1:G:97:GLU:OE2	1:G:145:LYS:HD3	2.11	0.51
2:I:104:ILE:HD11	2:I:484:LEU:O	2.11	0.51
2:I:1304:MET:HE2	2:I:1308:ILE:HD11	1.91	0.51
2:I:489:PRO:O	2:I:493:ILE:CG1	2.59	0.51
3:J:160:LEU:CD2	3:J:164:GLN:HB3	2.39	0.51
3:J:428:THR:CG2	3:J:921:GLN:NE2	2.73	0.51
3:J:841:GLY:O	3:J:863:LEU:HD11	2.11	0.51
3:J:918:ILE:HG22	3:J:919:ALA:H	1.75	0.51
3:P:1258:ARG:CG	3:P:1258:ARG:HH11	2.23	0.51
3:P:332:LYS:HE3	3:P:1328:THR:H	1.76	0.51
3:P:333:GLY:C	3:P:336:GLY:H	2.13	0.51
3:P:347:VAL:CG1	3:P:348:ASP:N	2.74	0.51
3:P:453:VAL:HG12	3:P:500:ILE:HD13	1.93	0.51
5:R:324:LYS:CB	5:R:325:PRO:CD	2.87	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:155:ALA:CB	1:A:174:ASP:OD1	2.59	0.51
1:A:56:VAL:HG21	1:A:85:LEU:O	2.10	0.51
2:C:173:ASN:HB3	2:C:187:GLU:HB3	1.93	0.51
2:C:251:ALA:O	2:C:266:GLY:HA2	2.11	0.51
3:D:1035:VAL:HG13	3:D:1078:LEU:HB3	1.92	0.51
3:D:435:GLN:CD	3:D:486:SER:HA	2.31	0.51
3:D:490:ILE:N	3:D:490:ILE:CD1	2.73	0.51
3:D:807:LEU:HD22	3:D:1259:GLN:HG2	1.93	0.51
3:D:922:SER:O	3:D:926:PRO:HD3	2.11	0.51
5:F:580:PHE:O	5:F:581:ASP:CB	2.58	0.51
2:I:1054:LEU:HD22	2:I:1055:ALA:O	2.11	0.51
2:I:1212:LEU:HB3	2:I:1221:PHE:CE2	2.45	0.51
2:I:511:LEU:HD21	2:I:534:GLY:HA3	1.92	0.51
2:I:951:MET:O	2:I:955:GLN:HG2	2.11	0.51
3:J:1255:VAL:HG12	3:J:1256:ILE:N	2.24	0.51
3:J:1260:MET:HG2	3:J:1307:LEU:O	2.10	0.51
3:J:320:ASN:HD21	3:J:322:ARG:HG2	1.74	0.51
2:O:796:LEU:HB3	2:O:1233:LEU:HD11	1.92	0.51
2:O:149:LEU:HD13	2:O:453:ILE:HD13	1.92	0.51
2:O:433:ILE:O	2:O:437:ASN:OD1	2.28	0.51
3:P:1286:LYS:HB3	3:P:1290:ARG:NH2	2.25	0.51
3:P:268:LEU:HB2	3:P:306:LEU:HD13	1.93	0.51
3:P:536:LEU:HD13	3:P:542:ALA:HB2	1.91	0.51
2:O:90:VAL:HG11	5:R:476:ARG:NH2	2.26	0.51
3:P:259:ARG:CZ	5:R:502:LYS:HG2	2.41	0.51
6:7:59:DG:C6	7:8:3:DG:O6	2.64	0.51
2:C:1281:TYR:CZ	3:D:431:ARG:CG	2.93	0.51
2:C:211:ARG:CZ	2:C:357:ASN:O	2.58	0.51
2:C:817:LEU:HB3	2:C:1097:VAL:HB	1.92	0.51
2:C:90:VAL:HG13	2:C:91:THR:N	2.26	0.51
3:D:1035:VAL:CG2	3:D:1121:LEU:HD21	2.40	0.51
3:D:1138:LEU:CB	3:D:1139:PRO:CD	2.83	0.51
3:D:546:ALA:O	3:D:548:VAL:CG2	2.59	0.51
3:D:746:LEU:CG	3:D:758:PRO:HB3	2.40	0.51
3:D:884:SER:OG	3:D:885:VAL:N	2.44	0.51
1:H:197:ASP:HB3	1:H:198:LEU:HD13	1.93	0.51
2:I:1273:MET:HA	2:I:1276:TRP:CE3	2.46	0.51
2:I:165:HIS:HE2	2:I:190:PRO:HB3	1.74	0.51
2:I:993:PRO:O	2:I:997:TRP:CD1	2.63	0.51
3:J:179:LYS:HG2	3:J:180:MET:H	1.75	0.51
3:J:332:LYS:HE3	3:J:1328:THR:N	2.26	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:967:VAL:HG13	3:J:973:LEU:HD12	1.92	0.51
5:L:364:ARG:HA	5:L:367:ILE:HD12	1.92	0.51
1:M:102:LEU:HD21	1:M:130:ILE:HD13	1.91	0.51
1:M:43:LEU:HD11	1:M:201:LEU:HD21	1.93	0.51
1:M:221:ALA:HB1	1:N:228:LEU:HD21	1.93	0.51
2:O:16:GLY:O	2:O:1156:ARG:HB2	2.10	0.51
2:O:1161:LEU:C	2:O:1161:LEU:HD12	2.31	0.51
2:O:210:LEU:CD2	2:O:213:LEU:HD12	2.36	0.51
2:O:539:THR:HG22	2:O:540:ARG:N	2.26	0.51
2:O:725:GLN:HB3	2:O:733:VAL:HG23	1.91	0.51
2:O:852:ALA:O	2:O:862:LEU:CD2	2.59	0.51
4:Q:5:THR:HG22	4:Q:7:GLN:H	1.76	0.51
6:1:46:DG:C8	6:1:46:DG:C5'	2.93	0.51
6:4:28:DA:H2"	6:4:29:DC:C6	2.46	0.51
1:A:62:ASP:N	1:A:62:ASP:OD1	2.43	0.51
2:C:1121:ALA:HB2	2:C:1182:ILE:CD1	2.34	0.51
3:D:452:LEU:HD11	3:D:625:MET:HB2	1.92	0.51
5:F:110:LEU:HD12	5:F:110:LEU:N	2.22	0.51
1:G:18:GLN:HG3	1:G:24:ALA:HB2	1.93	0.51
3:J:233:LYS:HG3	3:J:234:PRO:HD2	1.91	0.51
3:J:575:GLY:O	3:J:579:LEU:HG	2.11	0.51
3:J:69:GLU:HG2	3:J:70:CYS:O	2.11	0.51
2:O:1286:THR:HB	2:O:1290:MET:HE2	1.93	0.51
2:O:247:ARG:HA	2:O:274:ILE:CD1	2.38	0.51
3:P:1002:VAL:HB	3:P:1019:ASN:O	2.11	0.51
3:P:1265:THR:OG1	3:P:1303:SER:OG	2.28	0.51
3:P:371:LYS:O	3:P:374:LEU:HB3	2.11	0.51
3:P:407:VAL:CG2	3:P:408:VAL:N	2.72	0.51
3:P:514:THR:HG21	3:P:596:LEU:HD12	1.92	0.51
3:P:749:LYS:HE2	3:P:755:ILE:HA	1.93	0.51
3:P:891:ASP:OD1	3:P:891:ASP:N	2.43	0.51
5:R:135:ALA:CB	5:R:256:PHE:CB	2.81	0.51
6:4:50:DT:H5'	6:4:51:DC:H6	1.72	0.51
1:B:74:VAL:O	1:B:74:VAL:CG1	2.58	0.51
2:C:1107:MET:HE3	3:D:739:GLN:HB3	1.93	0.51
3:D:1179:PRO:CD	3:D:1182:GLY:O	2.59	0.51
3:D:1251:LYS:O	3:D:1254:GLU:HB2	2.10	0.51
2:C:1320:PRO:HB3	3:D:345:LYS:NZ	2.26	0.51
3:D:425:ARG:HB3	3:D:457:TYR:HD1	1.76	0.51
2:C:902:LEU:HD13	5:F:540:LEU:HD21	1.92	0.51
1:H:82:LEU:CD2	1:H:173:VAL:CG2	2.84	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:61:ILE:HA	1:H:142:MET:CB	2.41	0.51
2:I:1101:LEU:HD11	3:J:508:LEU:HD23	1.90	0.51
2:I:1299:ASN:H	2:I:1299:ASN:ND2	2.09	0.51
2:I:366:ILE:O	2:I:369:MET:HG3	2.11	0.51
3:J:1250:ASP:OD1	3:J:1250:ASP:N	2.44	0.51
3:J:923:ILE:CD1	3:J:1252:HIS:HB3	2.40	0.51
3:J:848:VAL:C	3:J:849:LEU:HD23	2.28	0.51
1:N:106:GLY:HA2	1:N:136:GLU:HA	1.92	0.51
1:N:79:LEU:O	1:N:83:LEU:HD23	2.11	0.51
2:O:975:ILE:HG23	2:O:1011:LEU:CD1	2.38	0.51
2:O:496:LYS:HB2	2:O:497:PRO:HD3	1.92	0.51
3:P:1138:LEU:HD23	3:P:1139:PRO:CD	2.41	0.51
2:O:1269:ARG:HH12	3:P:340:GLN:HG3	1.73	0.51
2:O:550:VAL:O	3:P:777:HIS:HE1	1.94	0.51
5:R:112:THR:O	5:R:114:GLU:N	2.44	0.51
1:B:175:ALA:HB1	1:B:177:TYR:CZ	2.46	0.50
2:C:1252:SER:CA	2:C:1259:LEU:HD21	2.40	0.50
2:C:1278:LEU:CD1	2:C:1287:LEU:HA	2.40	0.50
2:C:1307:ASN:HB3	2:C:1312:ASN:HD22	1.76	0.50
2:C:250:THR:HG22	2:C:251:ALA:H	1.75	0.50
2:C:539:THR:HG22	2:C:540:ARG:H	1.76	0.50
2:C:58:PRO:CG	2:C:69:GLN:HG2	2.41	0.50
3:D:185:ILE:O	3:D:189:LEU:HD12	2.11	0.50
3:D:276:ASN:OD1	3:D:279:LEU:HD23	2.11	0.50
3:D:423:LEU:HB2	3:D:466:MET:HE1	1.93	0.50
3:D:339:ARG:HH12	3:D:798:ARG:NH1	2.09	0.50
3:D:825:VAL:HG21	3:D:1242:ARG:HH22	1.76	0.50
3:D:840:LEU:HD13	3:D:869:CYS:SG	2.51	0.50
5:F:123:ILE:CG2	5:F:376:LYS:HE3	2.40	0.50
5:F:289:LYS:CE	5:F:290:LEU:HG	2.39	0.50
1:G:31:LEU:HD11	1:G:201:LEU:CB	2.40	0.50
1:H:75:GLN:CG	1:H:134:THR:CG2	2.89	0.50
2:I:165:HIS:HE2	2:I:190:PRO:CB	2.24	0.50
2:I:298:ALA:HA	2:I:336:LEU:HD11	1.93	0.50
3:J:112:ALA:H	3:J:300:GLN:HE22	1.59	0.50
3:J:43:THR:HB	3:J:44:ILE:HG23	1.93	0.50
3:J:610:ARG:HD2	3:J:866:GLU:OE1	2.11	0.50
3:J:515:ARG:NH2	3:J:717:VAL:HB	2.22	0.50
2:O:102:LEU:CD2	2:O:104:ILE:HD11	2.40	0.50
2:O:34:SER:HA	2:O:37:LYS:HE3	1.92	0.50
2:O:662:SER:OG	2:O:663:VAL:N	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1145:PHE:C	3:P:1309:ILE:HD11	2.31	0.50
5:R:399:LEU:HD21	5:R:447:ALA:HB2	1.93	0.50
7:2:24:DT:H72	7:2:25:DA:N6	2.25	0.50
2:C:1225:VAL:HG13	2:C:1226:THR:N	2.26	0.50
3:D:491:LEU:HD21	3:D:609:TYR:CD2	2.45	0.50
5:F:306:PHE:O	5:F:310:GLU:HG3	2.11	0.50
5:F:551:LEU:CD1	5:F:559:LEU:HD12	2.41	0.50
5:F:585:GLU:OE2	5:F:588:ARG:CB	2.59	0.50
1:G:14:VAL:HG12	1:G:15:ASP:N	2.25	0.50
1:H:55:ALA:HB3	1:H:177:TYR:CD1	2.46	0.50
1:H:61:ILE:HD12	1:H:171:LEU:HD11	1.94	0.50
2:I:953:LEU:HB3	2:I:957:LYS:NZ	2.25	0.50
3:J:930:LEU:HD11	3:J:1246:VAL:CG2	2.41	0.50
5:L:452:ILE:HG23	5:L:456:MET:CB	2.40	0.50
2:O:189:ASP:HB2	2:O:195:PHE:CD2	2.46	0.50
2:O:851:THR:HG22	2:O:852:ALA:N	2.24	0.50
2:O:942:ASP:HB2	2:O:945:ALA:HB2	1.93	0.50
2:O:997:TRP:HB3	2:O:1000:LEU:CD2	2.39	0.50
3:P:367:GLY:HA3	3:P:448:GLN:HB2	1.94	0.50
3:P:608:CYS:SG	3:P:617:THR:CG2	2.78	0.50
3:P:650:LYS:O	3:P:654:ILE:HG13	2.11	0.50
7:2:32:DA:H2"	7:2:33:DC:OP2	2.11	0.50
1:A:56:VAL:HG13	1:A:144:ILE:HG21	1.92	0.50
1:A:166:ARG:HD2	1:A:170:ARG:HG2	1.92	0.50
2:C:184:LEU:HB3	2:C:186:PHE:CE2	2.46	0.50
3:D:1307:LEU:HD12	3:D:1312:ALA:HA	1.93	0.50
3:D:416:ILE:CD1	3:D:441:LEU:CD1	2.89	0.50
1:G:155:ALA:HB1	1:G:172:LEU:HG	1.93	0.50
1:G:49:SER:HB2	1:H:33:ARG:CZ	2.41	0.50
1:H:140:ILE:HG12	1:H:142:MET:CE	2.41	0.50
2:I:1119:MET:HE3	2:I:1199:LEU:HD21	1.93	0.50
2:I:675:ASP:HB2	2:I:1107:MET:CE	2.33	0.50
2:I:736:VAL:O	2:I:741:MET:CE	2.60	0.50
3:J:1253:ILE:O	3:J:1257:VAL:CG2	2.57	0.50
5:L:586:ARG:O	5:L:590:ILE:HG13	2.11	0.50
1:M:224:LEU:CD2	1:N:228:LEU:CG	2.81	0.50
3:P:930:LEU:CD1	3:P:1134:ILE:HG13	2.41	0.50
3:P:548:VAL:HG12	3:P:549:LYS:N	2.27	0.50
3:J:425:ARG:HH12	8:6:16:U:H1'	1.76	0.50
2:C:559:CYS:HB2	2:C:662:SER:HB3	1.93	0.50
5:F:572:THR:O	5:F:576:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1107:MET:HE1	3:J:763:PHE:HE2	1.74	0.50
2:I:15:PHE:CD2	2:I:1182:ILE:CG2	2.95	0.50
2:I:27:LEU:HD12	2:I:711:ASP:CB	2.41	0.50
3:J:143:SER:HB2	3:J:160:LEU:O	2.12	0.50
3:J:755:ILE:HD12	3:J:774:ILE:CG2	2.42	0.50
3:J:824:PRO:HD3	3:J:878:ASP:O	2.11	0.50
5:L:390:ILE:HD13	5:L:432:THR:HA	1.94	0.50
1:M:154:PRO:HD2	1:M:157:THR:OG1	2.11	0.50
1:M:11:PRO:HB2	1:M:28:LEU:HD12	1.93	0.50
1:M:38:THR:HG22	1:N:42:ALA:HB1	1.92	0.50
2:O:1129:ASN:HA	2:O:1132:LEU:HD12	1.92	0.50
2:O:13:LYS:HD2	2:O:1149:TYR:HA	1.94	0.50
3:P:233:LYS:HE2	3:P:236:TRP:NE1	2.27	0.50
3:P:371:LYS:O	3:P:374:LEU:CD2	2.56	0.50
5:F:434:TRP:HH2	6:1:35:DC:OP2	1.94	0.50
5:R:453:PRO:HG2	6:7:31:DT:OP1	2.11	0.50
6:7:53:DG:H2"	6:7:54:DA:C5'	2.42	0.50
2:C:13:LYS:NZ	2:C:1149:TYR:O	2.45	0.50
2:C:149:LEU:HD21	2:C:451:ARG:NE	2.14	0.50
2:C:230:PHE:CD1	2:C:292:ILE:HD11	2.47	0.50
3:D:1285:VAL:CG1	3:D:1286:LYS:N	2.74	0.50
3:D:219:LYS:O	3:D:222:LYS:HB2	2.12	0.50
3:D:111:THR:HG23	3:D:300:GLN:OE1	2.11	0.50
2:C:1283:ALA:CB	3:D:479:GLU:OE2	2.52	0.50
3:D:609:TYR:HA	3:D:617:THR:CG2	2.40	0.50
2:C:1104:PRO:HG3	3:D:725:MET:CE	2.40	0.50
3:D:795:TYR:CE1	7:2:12:DG:H5'	2.47	0.50
3:D:830:ASP:HB3	3:D:832:LYS:NZ	2.26	0.50
4:E:69:ARG:O	4:E:73:GLN:HG3	2.12	0.50
1:H:61:ILE:HA	1:H:142:MET:HB2	1.93	0.50
1:H:86:LYS:HE3	1:H:173:VAL:CG1	2.40	0.50
2:I:148:GLN:NE2	2:I:534:GLY:HA3	2.27	0.50
3:J:1285:VAL:CG1	3:J:1286:LYS:N	2.75	0.50
3:J:136:GLU:O	3:J:140:TYR:HD2	1.94	0.50
3:J:64:PRO:HG3	3:J:93:THR:H	1.76	0.50
2:I:1256:GLN:NE2	3:J:96:LYS:NZ	2.60	0.50
2:O:191:LYS:O	2:O:192:ASP:CB	2.58	0.50
2:O:297:VAL:HG11	2:O:311:CYS:HB2	1.93	0.50
2:O:672:GLU:CG	2:O:1187:PHE:HA	2.42	0.50
3:P:139:LEU:HA	3:P:181:GLY:HA2	1.93	0.50
3:P:838:ARG:CG	3:P:1250:ASP:OD2	2.60	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:795:TYR:CD1	7:8:12:DG:C5'	2.95	0.50
1:A:180:VAL:HA	1:A:207:THR:CG2	2.14	0.50
2:C:1109:ILE:N	2:C:1109:ILE:HD13	2.27	0.50
2:C:255:ILE:CD1	2:C:285:ILE:HG21	2.42	0.50
3:D:1307:LEU:N	3:D:1307:LEU:HD23	2.26	0.50
3:D:249:LEU:C	3:D:251:PRO:HD3	2.31	0.50
3:D:385:LEU:HD22	3:D:391:ALA:HB2	1.93	0.50
3:D:40:LYS:NZ	3:D:53:ARG:HE	2.10	0.50
3:D:700:ASN:O	3:D:704:GLU:CB	2.60	0.50
3:D:849:LEU:HD21	3:D:855:ASP:OD1	2.12	0.50
3:D:967:VAL:HG22	3:D:973:LEU:CD1	2.41	0.50
5:F:166:VAL:CG1	5:F:167:ASP:N	2.69	0.50
5:F:235:ILE:HG23	5:F:240:ARG:HD3	1.93	0.50
1:G:106:GLY:HA2	1:G:136:GLU:HA	1.94	0.50
2:I:1296:ASP:N	2:I:1296:ASP:OD1	2.42	0.50
2:I:49:LEU:HD23	2:I:464:PHE:CE2	2.47	0.50
3:J:1082:ASP:HB3	3:J:1088:VAL:CG2	2.42	0.50
3:J:1164:SER:O	3:J:1175:LEU:HD12	2.11	0.50
3:J:1266:ILE:CD1	3:J:1278:GLU:HB3	2.40	0.50
3:J:139:LEU:CD2	3:J:185:ILE:HD13	2.39	0.50
5:L:390:ILE:HG21	5:L:432:THR:HG23	1.94	0.50
1:M:68:TYR:OH	2:O:1057:LYS:HG2	2.12	0.50
2:O:414:ILE:H	2:O:414:ILE:HD13	1.77	0.50
2:O:758:ARG:HB2	2:O:833:ILE:CG2	2.41	0.50
2:O:170:VAL:HG23	3:P:1065:ALA:O	2.11	0.50
3:P:139:LEU:O	3:P:141:PHE:HD2	1.93	0.50
3:P:318:GLY:HA3	3:P:322:ARG:NH1	2.20	0.50
3:P:453:VAL:CG1	3:P:500:ILE:HD13	2.42	0.50
3:P:746:LEU:CG	3:P:758:PRO:HB3	2.35	0.50
3:P:843:VAL:CB	3:P:897:HIS:O	2.57	0.50
5:R:464:ASN:CG	7:8:25:DA:N6	2.65	0.50
5:R:418:LYS:NZ	6:7:35:DC:OP2	2.38	0.50
2:C:1008:GLN:HE22	2:C:1011:LEU:HD23	1.76	0.50
2:C:1151:LEU:CD2	2:C:1198:LEU:CD1	2.72	0.50
2:C:375:PRO:N	5:F:87:VAL:HG21	2.26	0.50
2:C:385:PHE:HA	2:C:388:LEU:HD12	1.93	0.50
2:C:708:VAL:HG12	2:C:794:LEU:HD22	1.90	0.50
3:D:379:PRO:CG	3:D:380:PHE:H	2.25	0.50
3:D:395:LYS:CB	3:D:398:LYS:HE3	2.41	0.50
3:D:450:HIS:CD2	3:D:452:LEU:H	2.30	0.50
3:D:894:VAL:HG22	3:D:915:ILE:HD11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:221:ALA:O	1:G:224:LEU:HB3	2.11	0.50
2:I:185:ASP:OD2	2:I:200:ARG:NE	2.41	0.50
2:I:448:LEU:HG	2:I:553:THR:OG1	2.12	0.50
2:I:563:THR:HG22	2:I:680:LEU:HD11	1.94	0.50
2:I:75:LEU:CD2	2:I:127:ILE:HD12	2.42	0.50
2:I:876:GLU:HG2	2:I:927:THR:OG1	2.12	0.50
3:J:1225:GLY:O	3:J:1229:VAL:HG12	2.12	0.50
3:J:520:ALA:HB3	3:J:546:ALA:CB	2.42	0.50
3:J:824:PRO:HB3	3:J:834:PRO:HA	1.93	0.50
5:L:298:PRO:HD2	5:L:326:TRP:CH2	2.47	0.50
1:M:100:LEU:CD2	1:M:115:ILE:CG2	2.76	0.50
1:M:35:PHE:O	1:M:39:LEU:HD21	2.10	0.50
1:N:158:ARG:CD	1:N:172:LEU:HD11	2.41	0.50
2:O:1104:PRO:HB3	3:P:725:MET:HE1	1.92	0.50
2:O:1210:ILE:HG22	2:O:1211:ARG:N	2.26	0.50
7:2:25:DA:H1'	7:2:26:DT:H5"	1.94	0.50
3:J:47:ARG:NH2	6:4:30:DG:O3'	2.44	0.50
1:A:150:ARG:HB3	1:B:6:THR:OG1	2.12	0.50
1:B:76:GLU:CG	1:B:80:GLU:CD	2.80	0.50
2:C:143:ARG:NH1	2:C:507:GLY:HA2	2.27	0.50
3:D:1330:ARG:O	3:D:1334:GLU:HG3	2.12	0.50
5:F:426:LYS:HE2	6:1:40:DA:OP2	2.12	0.50
5:F:443:ILE:CG2	5:F:444:ALA:N	2.75	0.50
2:I:1148:ALA:O	2:I:1151:LEU:HB2	2.12	0.50
2:I:192:ASP:HB3	2:I:346:TYR:HD1	1.77	0.50
2:I:232:ILE:HG21	2:I:326:SER:CB	2.42	0.50
2:I:661:VAL:HG12	2:I:665:ALA:HB3	1.91	0.50
2:I:805:MET:HE2	2:I:806:PRO:CD	2.42	0.50
3:J:1350:ASN:HD22	3:J:1356:LEU:C	2.15	0.50
3:J:69:GLU:HG2	3:J:69:GLU:O	2.12	0.50
5:L:120:ALA:CB	5:L:421:TYR:HB3	2.42	0.50
1:M:69:SER:O	1:M:78:ILE:CD1	2.60	0.50
2:O:1237:HIS:CE1	2:O:1242:LYS:HZ1	2.28	0.50
2:O:1299:ASN:OD1	2:O:1299:ASN:N	2.45	0.50
2:O:157:PHE:N	2:O:157:PHE:CD1	2.79	0.50
2:O:293:ALA:HB2	2:O:319:LEU:CD2	2.39	0.50
3:P:1157:ALA:O	3:P:1223:LEU:HD13	2.11	0.50
3:P:1263:LYS:HD3	3:P:1280:VAL:C	2.32	0.50
6:1:51:DC:C4	6:1:52:DT:O4	2.65	0.50
5:L:429:THR:OG1	6:4:39:DA:H8	1.75	0.50
5:R:461:ASN:CA	7:8:26:DT:H72	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:217:ILE:HG22	1:B:218:ARG:N	2.25	0.50
2:C:1289:GLU:OE2	3:D:472:LEU:N	2.45	0.50
2:C:1334:GLY:C	3:D:25:ALA:HB2	2.31	0.50
2:C:838:CYS:HB2	2:C:918:LEU:HD22	1.93	0.50
3:D:105:ILE:HD12	3:D:242:LEU:CD2	2.31	0.50
3:D:424:ASN:O	3:D:466:MET:HE2	2.12	0.50
3:D:497:GLU:CB	3:D:498:PRO:CD	2.89	0.50
3:D:522:GLY:CA	3:D:525:MET:SD	3.00	0.50
3:D:696:ALA:O	3:D:700:ASN:HB2	2.11	0.50
3:D:749:LYS:HE3	3:D:755:ILE:CG1	2.42	0.50
3:D:807:LEU:HG	3:D:893:GLY:HA2	1.93	0.50
5:F:601:PRO:HB3	5:F:608:ARG:NH2	2.27	0.50
2:C:260:LYS:HD3	2:I:490:GLN:OE1	2.11	0.50
2:I:870:ILE:CG2	2:I:944:ARG:HD3	2.41	0.50
3:J:303:VAL:O	3:J:306:LEU:HB3	2.12	0.50
3:J:621:ALA:HA	3:J:624:ILE:HD12	1.93	0.50
3:J:945:ALA:CB	3:J:1023:HIS:HE1	2.25	0.50
1:N:65:LEU:O	1:N:169:GLY:CA	2.54	0.50
2:O:1088:ASP:HB2	2:O:1091:GLY:H	1.77	0.50
2:O:766:ASN:ND2	2:O:766:ASN:C	2.65	0.50
3:P:1078:LEU:CG	3:P:1101:LEU:HD11	2.41	0.50
3:P:478:LEU:HD11	4:Q:23:ALA:CB	2.42	0.50
3:P:552:ILE:HG21	3:P:589:TYR:CD1	2.47	0.50
6:1:59:DG:H2"	6:1:60:DC:C6	2.47	0.49
6:7:54:DA:H2"	6:7:55:DC:C6	2.47	0.49
1:B:9:LEU:HD21	1:B:30:PRO:HG2	1.94	0.49
1:B:86:LYS:HB3	1:B:176:CYS:SG	2.52	0.49
2:C:669:PRO:CB	2:C:1184:THR:CG2	2.90	0.49
2:C:177:ILE:HA	2:C:183:TRP:HD1	1.77	0.49
3:D:1101:LEU:HD22	3:D:1122:ALA:HB2	1.93	0.49
3:D:238:ILE:HG23	3:D:239:LEU:N	2.27	0.49
3:D:849:LEU:O	3:D:850:LYS:CB	2.60	0.49
1:G:25:LYS:HZ2	1:G:202:VAL:HG12	1.74	0.49
2:I:686:GLN:NE2	2:I:1069:ARG:CD	2.75	0.49
2:I:1124:ILE:HG23	2:I:1144:PHE:HE2	1.77	0.49
2:I:357:ASN:N	2:I:361:SER:OG	2.45	0.49
2:I:60:GLN:CG	2:I:67:GLU:OE1	2.60	0.49
2:I:719:LYS:N	2:I:719:LYS:HD2	2.27	0.49
2:I:878:THR:HG22	2:I:879:GLY:N	2.27	0.49
2:I:878:THR:HA	2:I:925:SER:HB2	1.94	0.49
3:J:1355:ARG:HD3	3:J:1369:ARG:HH22	1.76	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:646:ILE:HG13	3:J:764:ARG:HH11	1.76	0.49
3:J:826:ILE:HG21	3:J:994:SER:CB	2.37	0.49
3:J:843:VAL:HG11	3:J:883:ARG:CD	2.29	0.49
5:L:360:ASP:O	5:L:364:ARG:HB2	2.11	0.49
5:L:452:ILE:CG2	5:L:456:MET:HB2	2.42	0.49
2:I:905:ILE:HA	5:L:595:LEU:HD22	1.93	0.49
1:N:64:VAL:HG11	1:N:78:ILE:CD1	2.42	0.49
2:O:829:THR:HG23	2:O:1058:ARG:O	2.12	0.49
2:O:165:HIS:HB2	2:O:168:GLY:H	1.77	0.49
2:O:295:LYS:O	2:O:317:LEU:HB2	2.12	0.49
2:O:73:TYR:HB2	2:O:98:VAL:HG22	1.93	0.49
3:P:1190:ILE:HD13	3:P:1196:LEU:CD1	2.42	0.49
3:P:1280:VAL:HG12	3:P:1281:GLU:N	2.25	0.49
3:P:807:LEU:HD23	3:P:1255:VAL:HG12	1.94	0.49
5:R:91:ILE:CD1	5:R:103:ARG:HH22	2.25	0.49
5:R:84:LEU:HD22	5:R:88:GLU:OE2	2.11	0.49
7:5:27:DA:C8	7:5:27:DA:OP1	2.65	0.49
8:9:14:A:C5'	8:9:15:G:OP2	2.54	0.49
2:C:1066:MET:HE3	2:C:1234:LYS:HA	1.92	0.49
3:D:117:LEU:HA	3:D:124:ILE:CD1	2.36	0.49
3:D:190:LYS:HG3	3:D:235:GLU:OE2	2.12	0.49
2:C:1294:LYS:NZ	3:D:349:TYR:HB2	2.27	0.49
5:F:452:ILE:HG22	5:F:457:ILE:CG1	2.43	0.49
1:G:79:LEU:O	1:G:82:LEU:HB2	2.11	0.49
1:H:81:ILE:HG23	1:H:84:ASN:HD22	1.77	0.49
2:I:1294:LYS:HD3	3:J:347:VAL:HG11	1.93	0.49
2:I:1315:MET:HG2	2:I:1317:PRO:HD3	1.94	0.49
2:I:448:LEU:CD1	2:I:553:THR:O	2.61	0.49
2:I:684:ASN:HA	2:I:687:ARG:NH2	2.26	0.49
2:I:840:SER:OG	2:I:1048:LYS:N	2.45	0.49
3:J:1176:VAL:HG22	3:J:1187:GLU:HG2	1.93	0.49
3:J:26:SER:H	3:J:29:MET:CE	2.25	0.49
3:J:353:SER:CB	3:J:372:MET:CE	2.77	0.49
3:J:786:THR:CG2	3:J:787:ALA:H	2.25	0.49
5:L:309:ASN:OD1	5:L:312:SER:HB3	2.12	0.49
1:M:59:VAL:CG1	1:M:60:GLU:N	2.74	0.49
2:O:60:GLN:O	2:O:476:LYS:HE3	2.12	0.49
3:P:1169:THR:C	3:P:1171:GLY:H	2.15	0.49
3:P:1319:PHE:CE2	3:P:1342:ASP:HB2	2.47	0.49
3:P:572:THR:HB	3:P:589:TYR:OH	2.11	0.49
2:O:1107:MET:CG	3:P:740:LEU:HD11	2.39	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:Q:76:GLU:O	4:Q:80:LEU:HG	2.11	0.49
3:P:79:LYS:CG	5:R:569:THR:HG23	2.39	0.49
2:O:1073:LYS:NZ	8:9:15:G:O5'	2.44	0.49
1:B:169:GLY:O	1:B:171:LEU:HG	2.11	0.49
2:C:653:MET:HG2	2:C:654:ASP:N	2.27	0.49
3:D:1011:VAL:HG11	3:D:1017:VAL:CG1	2.41	0.49
3:D:1151:LYS:CD	3:D:1151:LYS:N	2.60	0.49
3:D:421:VAL:HG23	3:D:439:PRO:HG2	1.94	0.49
3:D:643:ASP:O	3:D:720:ASN:ND2	2.44	0.49
3:D:844:THR:CG2	3:D:864:LEU:HD21	2.41	0.49
5:F:565:ILE:O	5:F:566:ASP:CB	2.60	0.49
5:F:547:VAL:HG21	5:F:607:LEU:HD11	1.93	0.49
1:H:35:PHE:O	1:H:39:LEU:HG	2.13	0.49
2:I:1034:ARG:HA	2:I:1037:THR:CB	2.42	0.49
2:I:1277:ALA:O	2:I:1280:ALA:HB3	2.12	0.49
2:I:568:ASN:HA	2:I:571:LEU:HD12	1.92	0.49
2:I:668:ILE:O	2:I:1186:VAL:HG22	2.13	0.49
2:I:82:VAL:HG23	2:I:83:GLN:N	2.27	0.49
2:I:854:ILE:HG22	2:I:857:VAL:HB	1.94	0.49
3:J:886:VAL:CG1	3:J:1261:LEU:HD13	2.33	0.49
3:J:1318:SER:OG	3:J:1321:SER:CB	2.57	0.49
3:J:708:ASN:ND2	3:J:713:GLU:HG2	2.27	0.49
3:J:931:THR:HG23	3:J:1134:ILE:CG2	2.42	0.49
2:O:1290:MET:HA	2:O:1294:LYS:CD	2.39	0.49
2:O:548:ARG:HH12	3:P:788:LEU:HD23	1.77	0.49
3:P:261:ALA:HB1	5:R:507:MET:HA	1.94	0.49
3:P:615:LYS:N	3:P:616:PRO:CD	2.75	0.49
3:P:762:ASN:OD1	3:P:764:ARG:HB3	2.13	0.49
4:Q:30:MET:HE1	4:Q:46:THR:HA	1.94	0.49
6:1:53:DG:H1'	6:1:54:DA:H5'	1.94	0.49
7:2:35:DT:H2"	7:2:36:DG:OP2	2.12	0.49
6:4:59:DG:C6	7:5:3:DG:O6	2.66	0.49
2:C:559:CYS:HG	2:C:661:VAL:HG12	1.75	0.49
2:C:170:VAL:HG23	3:D:1065:ALA:CB	2.43	0.49
3:D:1170:LYS:HG2	3:D:1170:LYS:O	2.12	0.49
3:D:799:ARG:HD2	3:D:1309:ILE:HG21	1.94	0.49
3:D:337:ARG:HH11	3:D:341:ASN:HD21	1.60	0.49
3:D:395:LYS:HA	3:D:398:LYS:CG	2.43	0.49
3:D:625:MET:CG	3:D:629:PHE:HE2	2.25	0.49
3:D:651:HIS:HA	3:D:654:ILE:HD12	1.93	0.49
2:C:673:HIS:O	3:D:763:PHE:CD1	2.66	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:167:ASP:N	5:F:168:PRO:HD3	2.26	0.49
5:F:601:PRO:HB3	5:F:608:ARG:HH21	1.76	0.49
1:G:43:LEU:HD13	1:G:203:ILE:HD11	1.94	0.49
3:J:1063:ASP:HB3	3:J:1103:GLY:HA3	1.94	0.49
3:J:1172:LYS:HE2	3:J:1191:PRO:HA	1.94	0.49
2:I:813:GLU:O	3:J:461:PHE:HB2	2.12	0.49
5:L:407:GLU:CG	5:L:442:SER:HB3	2.41	0.49
1:M:61:ILE:HG12	1:M:142:MET:HB2	1.93	0.49
1:N:18:GLN:HG3	1:N:24:ALA:HB2	1.94	0.49
2:O:805:MET:C	2:O:1100:PRO:HD3	2.33	0.49
2:O:25:PRO:O	2:O:27:LEU:HD23	2.12	0.49
2:O:49:LEU:HD13	2:O:73:TYR:CZ	2.48	0.49
2:O:693:LEU:HA	2:O:831:ILE:HD11	1.94	0.49
3:P:1210:ILE:HG22	3:P:1211:SER:N	2.27	0.49
3:P:252:LEU:HD12	3:P:253:VAL:N	2.27	0.49
3:P:643:ASP:HA	3:P:720:ASN:HD21	1.76	0.49
5:R:394:TYR:O	5:R:396:ASN:N	2.45	0.49
5:R:429:THR:OG1	6:7:39:DA:H8	1.96	0.49
1:B:183:ILE:HB	1:B:205:MET:HE2	1.95	0.49
2:C:251:ALA:HB3	2:C:266:GLY:H	1.77	0.49
2:C:406:ASN:HD22	2:C:414:ILE:HA	1.76	0.49
3:D:419:HIS:CE1	3:D:477:GLN:NE2	2.80	0.49
1:G:121:VAL:O	1:G:122:GLU:HG3	2.12	0.49
1:H:52:PRO:HA	1:H:150:ARG:CB	2.42	0.49
2:I:452:ARG:NH2	2:I:458:GLU:CD	2.66	0.49
3:J:104:HIS:HA	3:J:244:VAL:HG23	1.94	0.49
3:J:1254:GLU:HA	3:J:1257:VAL:HG21	1.95	0.49
3:J:197:GLU:HA	3:J:200:GLN:CD	2.32	0.49
2:I:1336:ASN:HD22	3:J:23:ALA:HB3	1.76	0.49
3:J:278:ARG:HH21	5:L:406:GLN:HB3	1.78	0.49
3:J:424:ASN:N	3:J:466:MET:CE	2.75	0.49
5:L:383:ASN:HD22	5:L:386:LEU:CD2	2.26	0.49
1:M:76:GLU:CB	1:M:81:ILE:HG13	2.41	0.49
2:O:1101:LEU:HD21	3:P:725:MET:CG	2.39	0.49
2:O:811:ASN:CB	2:O:1099:ASN:HB2	2.42	0.49
2:O:862:LEU:O	2:O:865:LEU:HB2	2.12	0.49
3:P:1150:PRO:O	3:P:1153:PRO:HD3	2.12	0.49
3:P:1231:ARG:O	3:P:1234:VAL:HB	2.12	0.49
3:P:26:SER:O	3:P:30:ILE:HG13	2.12	0.49
5:F:451:ARG:NH1	6:1:32:DA:OP1	2.46	0.49
1:A:232:VAL:HG13	1:B:221:ALA:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:48:LEU:HD21	1:B:183:ILE:HG22	1.93	0.49
2:C:1275:VAL:HG12	2:C:1279:GLU:CD	2.33	0.49
3:D:111:THR:CG2	3:D:112:ALA:N	2.75	0.49
3:D:395:LYS:O	3:D:398:LYS:CD	2.60	0.49
3:D:470:VAL:CG1	3:D:472:LEU:CD2	2.91	0.49
3:D:479:GLU:HA	4:E:20:VAL:HG21	1.94	0.49
3:D:92:VAL:O	3:D:93:THR:HG23	2.13	0.49
5:F:489:MET:HB2	5:F:494:ILE:HD11	1.95	0.49
2:I:27:LEU:HD12	2:I:711:ASP:HB3	1.93	0.49
2:I:750:ILE:HG23	2:I:750:ILE:O	2.13	0.49
3:J:1254:GLU:C	3:J:1257:VAL:HG23	2.33	0.49
3:J:805:GLN:HB2	3:J:1347:LEU:CG	2.43	0.49
3:J:828:GLY:HA2	3:J:996:LYS:N	2.28	0.49
1:N:13:LEU:HD12	1:N:28:LEU:HD22	1.92	0.49
2:O:1142:ARG:HG3	2:O:1161:LEU:CD2	2.43	0.49
2:O:830:THR:OG1	2:O:832:HIS:HD2	1.95	0.49
5:R:428:SER:OG	6:7:41:DT:H73	2.13	0.49
6:1:58:DG:C2	7:2:6:DG:N2	2.81	0.49
6:4:53:DG:H1'	6:4:54:DA:H5'	1.95	0.49
1:A:81:ILE:O	1:A:85:LEU:HG	2.12	0.49
1:B:61:ILE:HD12	1:B:171:LEU:CD1	2.43	0.49
1:B:88:LEU:HD22	1:B:128:HIS:CD2	2.48	0.49
3:D:173:GLY:O	3:D:175:GLU:N	2.46	0.49
3:D:501:VAL:CG1	3:D:502:PRO:HD2	2.32	0.49
3:D:600:ALA:O	3:D:604:MET:SD	2.71	0.49
3:D:646:ILE:HG13	3:D:764:ARG:HH11	1.78	0.49
2:C:1107:MET:CE	3:D:740:LEU:HD21	2.31	0.49
1:G:91:ARG:HD2	1:G:124:VAL:HG22	1.83	0.49
2:I:678:ARG:CD	2:I:1106:ARG:O	2.58	0.49
3:J:1237:VAL:CG1	3:J:1241:TYR:HE2	2.24	0.49
3:J:809:VAL:HB	3:J:911:LYS:HA	1.95	0.49
3:J:786:THR:HA	3:J:935:PHE:CD2	2.48	0.49
3:J:97:VAL:HG12	3:J:101:ARG:CD	2.43	0.49
5:L:423:ARG:HD3	6:4:37:DA:C4	2.47	0.49
1:M:66:HIS:O	1:M:78:ILE:CD1	2.60	0.49
1:M:83:LEU:HD13	1:M:86:LYS:CD	2.38	0.49
2:O:414:ILE:N	2:O:414:ILE:HD13	2.27	0.49
2:O:56:VAL:HG21	2:O:468:LEU:HD22	1.94	0.49
3:P:1353:VAL:HG21	3:P:1355:ARG:CD	2.33	0.49
3:P:161:THR:OG1	3:P:164:GLN:NE2	2.45	0.49
3:P:526:VAL:O	3:P:527:LEU:HD23	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:525:MET:O	3:P:548:VAL:HG13	2.12	0.49
5:F:585:GLU:HG3	7:2:46:DT:C5	2.47	0.49
5:F:585:GLU:CG	7:2:47:DC:H41	2.22	0.49
2:C:1330:ILE:HD12	2:C:1337:ILE:HD12	1.93	0.49
3:D:1167:LYS:O	3:D:1174:ARG:NE	2.45	0.49
3:D:1261:LEU:HD13	3:D:1304:ARG:HD3	1.92	0.49
3:D:471:PRO:HG2	3:D:471:PRO:O	2.13	0.49
3:D:909:ILE:CD1	3:D:910:ASN:N	2.71	0.49
5:F:417:ASP:OD1	5:F:417:ASP:N	2.44	0.49
5:F:476:ARG:HG3	5:F:477:GLU:N	2.28	0.49
5:F:84:LEU:CD1	5:F:107:THR:CG2	2.70	0.49
2:I:13:LYS:HB2	2:I:1149:TYR:CE1	2.48	0.49
3:J:296:LYS:O	3:J:299:LEU:HD23	2.12	0.49
2:I:680:LEU:HD23	3:J:783:LEU:HD23	1.94	0.49
5:L:490:PRO:O	5:L:494:ILE:CD1	2.60	0.49
5:L:586:ARG:C	5:L:587:ILE:HD13	2.26	0.49
2:O:13:LYS:O	2:O:1183:ALA:N	2.32	0.49
2:O:424:ASP:O	2:O:428:VAL:HG23	2.12	0.49
2:O:18:ARG:HH11	2:O:623:LEU:HD12	1.66	0.49
2:O:668:ILE:HD11	2:O:686:GLN:NE2	2.27	0.49
3:P:1163:VAL:HG22	3:P:1177:ILE:HG23	1.95	0.49
3:P:201:LEU:HD22	3:P:217:LEU:CD2	2.43	0.49
3:P:925:GLU:N	3:P:926:PRO:CD	2.75	0.49
3:D:332:LYS:CE	7:2:11:DA:OP1	2.61	0.49
8:6:14:A:H5'	8:6:15:G:OP2	2.11	0.49
1:A:69:SER:O	1:A:78:ILE:CG1	2.60	0.49
2:C:1281:TYR:CZ	3:D:431:ARG:HB2	2.48	0.49
5:F:252:LEU:O	5:F:255:VAL:HB	2.12	0.49
5:F:511:ILE:HD13	5:F:519:LEU:HA	1.94	0.49
2:I:1232:MET:C	2:I:1233:LEU:HG	2.33	0.49
2:I:38:PHE:HE1	2:I:461:GLU:HA	1.78	0.49
2:I:655:VAL:CG1	2:I:656:SER:N	2.73	0.49
2:I:191:LYS:CG	3:J:1069:ALA:HB3	2.42	0.49
3:J:1240:VAL:O	3:J:1243:LEU:HB3	2.12	0.49
2:I:1326:LEU:HD22	3:J:342:LEU:CD1	2.42	0.49
5:L:386:LEU:HD22	6:4:41:DT:N3	2.28	0.49
1:M:150:ARG:CD	1:M:150:ARG:H	2.23	0.49
1:M:224:LEU:HD11	1:M:228:LEU:HD12	1.94	0.49
1:N:140:ILE:CG1	1:N:142:MET:HE1	2.37	0.49
2:O:1085:MET:HE2	2:O:1086:PRO:HD2	1.95	0.49
2:O:1238:LEU:HB3	2:O:1240:ASP:HB2	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:720:ASN:O	3:P:724:MET:CG	2.48	0.49
6:1:34:DG:C5	6:1:35:DC:N4	2.81	0.49
2:C:726:TYR:HB3	2:C:733:VAL:CG2	2.42	0.49
2:C:846:GLY:CA	2:C:889:PRO:HG2	2.41	0.49
3:D:1229:VAL:CG1	3:D:1230:THR:H	2.21	0.49
3:D:70:CYS:CB	3:D:90:VAL:CG1	2.91	0.49
5:F:91:ILE:HD11	5:F:103:ARG:CZ	2.43	0.49
5:F:606:VAL:HG23	5:F:607:LEU:HG	1.95	0.49
2:I:402:ARG:CD	2:I:416:GLY:HA3	2.43	0.49
2:I:726:TYR:N	2:I:733:VAL:HG22	2.28	0.49
3:J:1098:GLN:HB3	3:J:1100:PHE:CE2	2.47	0.49
3:J:1265:THR:OG1	3:J:1303:SER:OG	2.29	0.49
3:J:268:LEU:O	3:J:272:VAL:HG23	2.13	0.49
2:O:1225:VAL:HG12	2:O:1226:THR:N	2.26	0.49
2:O:496:LYS:CB	2:O:497:PRO:HD3	2.43	0.49
2:O:1286:THR:CB	3:P:479:GLU:OE2	2.61	0.49
3:P:622:ASP:HB3	3:P:626:TYR:CE2	2.32	0.49
3:P:75:TYR:HB3	3:P:92:VAL:HG21	1.94	0.49
6:4:47:DC:C2	6:4:48:DA:C4	3.00	0.48
2:C:1117:LEU:O	2:C:1117:LEU:HG	2.13	0.48
2:C:452:ARG:NH2	2:C:458:GLU:OE1	2.45	0.48
2:C:559:CYS:HB2	2:C:662:SER:N	2.28	0.48
3:D:1165:PHE:CE1	3:D:1199:PHE:O	2.66	0.48
3:D:1145:PHE:CZ	3:D:1253:ILE:HG23	2.48	0.48
3:D:163:GLU:OE1	3:D:163:GLU:N	2.46	0.48
2:C:1257:GLN:HE21	3:D:345:LYS:HB3	1.77	0.48
3:D:746:LEU:HD21	3:D:758:PRO:HB3	1.90	0.48
1:G:46:ILE:HG12	1:H:35:PHE:CE1	2.48	0.48
2:I:1034:ARG:HA	2:I:1037:THR:HB	1.93	0.48
2:I:686:GLN:HE21	2:I:1069:ARG:HG2	1.76	0.48
2:I:1307:ASN:HB3	2:I:1312:ASN:HB3	1.95	0.48
2:I:448:LEU:HD11	2:I:553:THR:O	2.13	0.48
2:I:849:GLU:O	2:I:887:VAL:HG22	2.13	0.48
2:I:190:PRO:CB	3:J:1069:ALA:HB2	2.31	0.48
3:J:141:PHE:HA	3:J:180:MET:HG2	1.95	0.48
5:L:457:ILE:HA	5:L:460:ILE:HD12	1.94	0.48
1:M:59:VAL:HG12	1:M:60:GLU:N	2.27	0.48
1:N:219:ARG:O	1:N:223:ILE:CG1	2.58	0.48
2:O:225:PHE:CE2	2:O:347:ILE:HB	2.48	0.48
2:O:363:LEU:HA	2:O:366:ILE:HD12	1.94	0.48
2:O:590:PRO:HD3	2:O:605:TYR:CE1	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:883:LEU:HG	2:O:920:VAL:HG23	1.95	0.48
3:P:481:ARG:O	3:P:485:MET:CB	2.59	0.48
5:R:590:ILE:HA	5:R:593:LYS:CE	2.43	0.48
6:4:44:DG:H2"	6:4:45:DT:C4'	2.43	0.48
2:C:1006:GLU:HB2	2:C:1007:LYS:HZ1	1.77	0.48
2:C:1288:GLN:CB	2:C:1315:MET:CE	2.90	0.48
3:D:1280:VAL:HG13	3:D:1281:GLU:H	1.78	0.48
5:F:213:ASP:OD1	5:F:213:ASP:N	2.46	0.48
5:F:434:TRP:CE2	6:1:36:DT:C7	2.96	0.48
5:F:468:ARG:NH2	7:2:25:DA:H8	2.11	0.48
5:F:533:ASP:N	5:F:533:ASP:OD1	2.46	0.48
3:D:79:LYS:CE	5:F:569:THR:HB	2.43	0.48
1:G:199:ASP:OD1	1:G:199:ASP:N	2.46	0.48
1:G:9:LEU:HD23	1:G:32:GLU:HG3	1.94	0.48
1:H:75:GLN:NE2	1:H:132:HIS:HB3	2.27	0.48
2:I:1034:ARG:HA	2:I:1037:THR:OG1	2.13	0.48
3:J:1172:LYS:HD3	3:J:1189:MET:CE	2.43	0.48
3:J:26:SER:H	3:J:29:MET:HE2	1.78	0.48
3:J:421:VAL:HG13	3:J:469:HIS:O	2.11	0.48
3:J:368:LEU:HA	3:J:447:ILE:HG23	1.94	0.48
3:J:796:LEU:CD1	3:J:800:LEU:HD21	2.42	0.48
2:O:525:THR:CG2	2:O:526:HIS:N	2.76	0.48
3:P:415:VAL:HA	4:Q:45:LYS:NZ	2.28	0.48
3:P:909:ILE:CG1	3:P:910:ASN:N	2.76	0.48
2:C:797:GLY:CA	2:C:1233:LEU:HD23	2.41	0.48
2:C:1283:ALA:HA	3:D:479:GLU:OE1	2.12	0.48
2:C:865:LEU:HD13	2:C:869:GLY:HA2	1.93	0.48
2:C:870:ILE:N	2:C:870:ILE:HD13	2.27	0.48
3:D:1307:LEU:HD12	3:D:1312:ALA:CB	2.44	0.48
2:C:1289:GLU:OE2	3:D:472:LEU:CA	2.61	0.48
5:F:279:ARG:NH2	5:F:347:ILE:HG12	2.27	0.48
1:G:24:ALA:HB2	1:G:213:PRO:HG2	1.95	0.48
2:I:1006:GLU:CD	2:I:1006:GLU:N	2.66	0.48
2:I:1072:ASN:CG	2:I:1111:GLN:OE1	2.51	0.48
2:I:211:ARG:HB2	2:I:362:ALA:CB	2.43	0.48
2:I:184:LEU:CD2	2:I:389:PHE:CE2	2.82	0.48
2:I:851:THR:HG23	2:I:852:ALA:H	1.76	0.48
3:J:291:ILE:HG23	5:L:409:ASN:HD22	1.79	0.48
3:J:306:LEU:O	3:J:326:SER:HB2	2.13	0.48
3:J:608:CYS:HG	3:J:617:THR:HG22	1.75	0.48
2:I:1223:ARG:HG3	3:J:636:GLY:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:712:GLN:C	3:J:713:GLU:CG	2.81	0.48
1:M:112:ALA:HB1	1:M:123:ILE:HG21	1.94	0.48
1:M:84:ASN:O	1:M:128:HIS:NE2	2.46	0.48
2:O:1271:GLY:O	2:O:1275:VAL:HG23	2.13	0.48
2:O:194:LEU:HD23	2:O:206:ALA:CB	2.43	0.48
2:O:444:ASP:O	2:O:450:ASN:ND2	2.47	0.48
2:O:693:LEU:O	2:O:693:LEU:HD12	2.13	0.48
2:O:79:VAL:HG23	2:O:95:PRO:HD3	1.95	0.48
3:P:1163:VAL:CG2	3:P:1177:ILE:HG23	2.43	0.48
3:P:902:ASP:HB2	3:P:909:ILE:HA	1.94	0.48
2:O:1311:GLY:O	4:Q:31:GLN:HG2	2.13	0.48
1:A:190:ALA:O	1:A:192:VAL:HG23	2.12	0.48
1:A:225:ALA:HA	1:A:228:LEU:HB2	1.95	0.48
2:C:1185:PRO:HD2	2:C:1189:GLY:HA2	1.95	0.48
2:C:1307:ASN:HB3	2:C:1312:ASN:HB3	1.95	0.48
3:D:121:PRO:O	3:D:122:SER:CB	2.58	0.48
3:D:1346:GLY:O	3:D:1349:GLU:HB2	2.12	0.48
3:D:421:VAL:HG23	3:D:439:PRO:CG	2.43	0.48
3:D:484:MET:CG	3:D:484:MET:CE	2.90	0.48
2:I:661:VAL:CG1	2:I:662:SER:N	2.76	0.48
2:I:686:GLN:CG	2:I:1069:ARG:HG2	2.44	0.48
2:I:745:GLU:CG	2:I:746:ALA:N	2.67	0.48
3:J:1218:HIS:CD2	3:J:1306:LEU:HD23	2.49	0.48
3:J:145:VAL:CG2	3:J:158:GLN:O	2.59	0.48
2:I:1294:LYS:CD	3:J:347:VAL:CG1	2.85	0.48
3:J:490:ILE:HD11	3:J:614:LEU:CD1	2.41	0.48
3:J:875:ASN:O	3:J:876:SER:CB	2.55	0.48
5:L:269:LEU:O	5:L:272:SER:HB2	2.13	0.48
5:L:84:LEU:HD21	5:L:107:THR:HG23	1.95	0.48
1:M:39:LEU:HD12	1:M:201:LEU:HD22	1.94	0.48
1:M:68:TYR:HE2	2:O:927:THR:OG1	1.96	0.48
1:M:79:LEU:O	1:M:83:LEU:HD23	2.13	0.48
2:O:432:LEU:CG	2:O:433:ILE:N	2.71	0.48
3:P:422:LEU:O	3:P:468:VAL:CG1	2.54	0.48
3:P:82:GLY:HA2	3:P:91:GLU:OE2	2.14	0.48
3:P:927:GLY:HA2	3:P:1134:ILE:CD1	2.43	0.48
3:P:930:LEU:HB3	3:P:1134:ILE:HG13	1.93	0.48
3:P:57:PHE:HB3	3:P:98:ARG:NH2	2.29	0.48
4:Q:2:ALA:HB3	4:Q:5:THR:O	2.12	0.48
5:R:137:TYR:HE1	5:R:353:LEU:HD12	1.77	0.48
6:4:46:DG:C8	6:4:46:DG:C5'	2.97	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:8:29:DC:H2"	7:8:30:DA:C8	2.48	0.48
1:A:32:GLU:HG2	1:A:33:ARG:N	2.29	0.48
2:C:1300:GLY:O	2:C:1304:MET:HB2	2.13	0.48
2:C:52:ALA:HB1	2:C:468:LEU:HD12	1.95	0.48
2:C:716:ALA:HB3	2:C:784:ALA:HB3	1.94	0.48
3:D:1356:LEU:CD1	3:D:1365:TYR:CD1	2.91	0.48
3:D:452:LEU:CD1	3:D:625:MET:HE2	2.36	0.48
5:F:583:THR:HG21	5:F:586:ARG:HG2	1.94	0.48
1:G:225:ALA:CA	1:H:228:LEU:HD13	2.44	0.48
2:I:496:LYS:HD2	5:L:468:ARG:NH2	2.10	0.48
2:I:666:SER:OG	2:I:704:MET:CE	2.61	0.48
2:I:968:GLU:O	2:I:972:PHE:HB2	2.13	0.48
3:J:1209:VAL:HG13	3:J:1211:SER:O	2.13	0.48
3:J:972:LYS:HB3	3:J:1002:VAL:CG1	2.43	0.48
3:J:967:VAL:HG22	3:J:973:LEU:CD1	2.43	0.48
2:O:409:LEU:CD2	2:O:431:LYS:HB2	2.44	0.48
2:O:447:HIS:O	2:O:450:ASN:HB2	2.13	0.48
2:O:736:VAL:HG12	2:O:737:ASN:N	2.28	0.48
3:P:363:LEU:N	3:P:450:HIS:CE1	2.82	0.48
3:P:576:ARG:HG2	3:P:592:VAL:HG22	1.95	0.48
3:P:795:TYR:CE1	7:8:12:DG:C5'	2.96	0.48
5:R:300:LYS:HE2	5:R:300:LYS:HB3	1.69	0.48
5:R:320:ILE:HG12	5:R:327:SER:OG	2.13	0.48
2:C:934:PHE:HD2	2:C:1049:ILE:HB	1.78	0.48
2:C:178:PRO:HD2	2:C:183:TRP:CD1	2.49	0.48
3:D:147:ILE:HD12	3:D:178:ALA:CA	2.44	0.48
3:D:471:PRO:CB	3:D:476:ALA:HB1	2.43	0.48
3:D:885:VAL:HG11	3:D:1255:VAL:HA	1.95	0.48
3:D:496:GLY:CA	3:D:903:LEU:HD21	2.44	0.48
3:D:967:VAL:CG2	3:D:973:LEU:CD1	2.92	0.48
4:E:49:ILE:HG22	4:E:50:ALA:CA	2.42	0.48
5:F:133:SER:CB	5:F:365:MET:SD	3.01	0.48
2:C:1044:PRO:HB3	5:F:498:LEU:HB3	1.96	0.48
1:G:112:ALA:O	1:G:115:ILE:CD1	2.61	0.48
1:G:18:GLN:HG3	1:G:24:ALA:CB	2.43	0.48
2:I:1333:LEU:HD21	3:J:327:LEU:CB	2.44	0.48
2:I:810:TYR:HB2	2:I:817:LEU:HD21	1.95	0.48
3:J:1218:HIS:CG	3:J:1306:LEU:HD23	2.48	0.48
3:J:234:PRO:O	3:J:237:MET:HG2	2.14	0.48
5:L:262:VAL:CG1	5:L:263:PRO:HD2	2.44	0.48
5:L:593:LYS:HE2	5:L:596:ARG:HH12	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:415:GLU:HG3	2:O:416:GLY:N	2.28	0.48
2:O:878:THR:HG22	2:O:879:GLY:H	1.79	0.48
6:4:47:DC:N3	6:4:48:DA:C2	2.80	0.48
1:A:235:ARG:OXT	1:B:218:ARG:HD3	2.13	0.48
1:A:224:LEU:CG	1:B:228:LEU:HD11	2.41	0.48
2:C:1262:LYS:O	2:C:1262:LYS:HG3	2.12	0.48
2:C:314:ASN:HD21	2:C:351:LEU:HD13	1.76	0.48
2:C:448:LEU:HD12	2:C:557:ARG:NH1	2.29	0.48
3:D:969:SER:HB3	3:D:1116:SER:OG	2.13	0.48
2:C:1339:LEU:HD22	3:D:17:PHE:CE1	2.48	0.48
3:D:215:LYS:O	3:D:218:THR:HB	2.14	0.48
3:D:385:LEU:HD13	3:D:397:ALA:HA	1.95	0.48
3:D:849:LEU:HA	3:D:856:ILE:O	2.14	0.48
1:G:86:LYS:HE2	1:G:173:VAL:HG13	1.96	0.48
2:I:555:TYR:CZ	2:I:660:VAL:HG22	2.48	0.48
3:J:820:ILE:HG21	3:J:1231:ARG:HD2	1.95	0.48
3:J:128:LEU:HD21	3:J:189:LEU:CD2	2.43	0.48
3:J:1292:LEU:O	3:J:1296:GLY:N	2.41	0.48
3:J:382:TYR:HA	3:J:385:LEU:HD12	1.96	0.48
3:J:801:VAL:HG22	3:J:920:ALA:HB3	1.96	0.48
5:L:426:LYS:HB3	6:4:39:DA:P	2.54	0.48
5:L:415:ALA:HB2	5:L:434:TRP:HB2	1.96	0.48
1:M:158:ARG:NE	1:M:172:LEU:HD11	2.29	0.48
1:N:150:ARG:CB	1:N:150:ARG:HH11	2.27	0.48
2:O:1323:PHE:CD1	2:O:1327:LEU:HD11	2.49	0.48
2:O:859:GLU:HA	2:O:862:LEU:HB2	1.95	0.48
2:O:888:THR:HG23	2:O:889:PRO:HD2	1.96	0.48
2:O:920:VAL:HG13	2:O:921:PRO:HD2	1.95	0.48
3:P:1029:THR:HG22	3:P:1099:TYR:CD1	2.49	0.48
3:P:254:PRO:HB3	3:P:260:PHE:CZ	2.48	0.48
3:P:52:GLU:HA	3:P:52:GLU:OE1	2.13	0.48
3:P:683:ILE:HG22	3:P:684:ASP:OD1	2.13	0.48
3:P:770:LEU:O	3:P:770:LEU:HG	2.06	0.48
3:P:859:PRO:HG2	3:P:868:TRP:HZ3	1.79	0.48
2:O:374:GLU:HB2	5:R:99:ARG:CD	2.44	0.48
6:1:59:DG:H2"	6:1:60:DC:C5	2.49	0.48
2:C:1273:MET:N	2:C:1274:GLU:OE1	2.47	0.48
2:C:1274:GLU:H	2:C:1274:GLU:CD	2.07	0.48
2:C:929:ILE:HG23	2:C:930:ASP:N	2.29	0.48
3:D:245:LEU:HD11	3:D:249:LEU:CD1	2.44	0.48
1:H:74:VAL:HG22	1:H:133:LEU:HD23	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:47:LEU:HD12	1:H:183:ILE:HD12	1.93	0.48
2:I:1031:ALA:C	2:I:1033:ARG:H	2.16	0.48
2:I:185:ASP:CG	2:I:200:ARG:HE	2.17	0.48
3:J:1360:GLY:O	3:J:1363:TYR:HB3	2.14	0.48
3:J:405:GLU:HB2	3:J:408:VAL:HG23	1.94	0.48
1:M:100:LEU:HD22	1:M:115:ILE:HG23	1.89	0.48
1:M:182:ARG:HD2	2:O:1092:THR:HG23	1.94	0.48
1:M:31:LEU:HD13	1:M:39:LEU:CD1	2.44	0.48
2:O:13:LYS:HG3	2:O:1149:TYR:HD1	1.79	0.48
1:N:37:HIS:CE1	2:O:1216:ARG:HD2	2.49	0.48
2:O:551:HIS:CB	2:O:554:HIS:CE1	2.96	0.48
2:O:708:VAL:HG11	2:O:794:LEU:CD2	2.44	0.48
2:O:902:LEU:HA	2:O:905:ILE:HD12	1.95	0.48
3:P:1151:LYS:C	3:P:1153:PRO:HD3	2.34	0.48
5:R:429:THR:OG1	6:7:39:DA:H2'	2.14	0.48
7:5:6:DG:C4	7:5:7:DC:C4	3.02	0.48
2:C:363:LEU:HA	2:C:366:ILE:HD12	1.94	0.48
2:C:151:ARG:NH1	2:C:445:ILE:HG23	2.29	0.48
2:C:974:ARG:HD3	2:C:1014:LEU:HD11	1.95	0.48
3:D:124:ILE:HG13	3:D:124:ILE:H	1.25	0.48
3:D:278:ARG:O	3:D:282:LEU:HG	2.14	0.48
3:D:611:ILE:HG22	3:D:612:LEU:CD2	2.43	0.48
5:F:95:THR:O	5:F:97:PRO:HD3	2.14	0.48
1:G:179:PRO:O	1:G:208:ASN:ND2	2.47	0.48
1:G:82:LEU:HA	1:G:85:LEU:CD1	2.43	0.48
1:G:91:ARG:HD2	1:G:124:VAL:HG21	1.86	0.48
2:I:451:ARG:HG2	2:I:451:ARG:HH11	1.79	0.48
3:J:185:ILE:H	3:J:185:ILE:HG13	1.27	0.48
2:I:815:SER:OG	3:J:461:PHE:CD2	2.67	0.48
3:J:57:PHE:CD2	3:J:57:PHE:N	2.81	0.48
3:J:92:VAL:O	3:J:93:THR:HG23	2.14	0.48
3:J:97:VAL:HG12	3:J:101:ARG:CG	2.44	0.48
4:K:70:GLN:HG3	4:K:73:GLN:HE22	1.79	0.48
2:O:1142:ARG:HG3	2:O:1161:LEU:HD21	1.95	0.48
2:O:374:GLU:OE1	5:R:99:ARG:CD	2.62	0.48
2:O:705:GLU:OE1	2:O:705:GLU:N	2.46	0.48
3:P:1062:LEU:HD13	3:P:1066:GLU:OE1	2.13	0.48
3:P:1141:VAL:HG13	3:P:1145:PHE:CE2	2.49	0.48
3:P:1155:ILE:CD1	3:P:1190:ILE:HG12	2.44	0.48
4:Q:86:ILE:HG23	4:Q:90:ARG:HH11	1.79	0.48
5:R:434:TRP:CZ2	6:7:36:DT:H73	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:7:58:DG:N2	7:8:6:DG:C2	2.82	0.48
2:C:1214:ASP:HB2	2:C:1221:PHE:CZ	2.49	0.48
3:D:1265:THR:OG1	3:D:1303:SER:OG	2.29	0.48
3:D:68:TYR:HA	3:D:92:VAL:CG1	2.44	0.48
4:E:41:GLU:HG2	4:E:43:ASN:N	2.28	0.48
5:F:119:ILE:H	5:F:119:ILE:HD12	1.78	0.48
5:F:456:MET:O	5:F:459:THR:OG1	2.30	0.48
1:H:158:ARG:CD	1:H:172:LEU:HD11	2.42	0.48
2:I:1144:PHE:CZ	2:I:1201:LEU:HG	2.49	0.48
2:I:122:VAL:HG21	2:I:493:ILE:HD12	1.94	0.48
2:I:90:VAL:CG1	2:I:91:THR:N	2.76	0.48
2:I:949:GLU:OE2	2:I:1036:ILE:HG22	2.13	0.48
3:J:22:ILE:HG13	3:J:1319:PHE:CE1	2.48	0.48
3:J:725:MET:HE3	3:J:732:GLY:N	2.29	0.48
5:L:84:LEU:HG	5:L:107:THR:HG22	1.96	0.48
1:M:85:LEU:HD21	1:M:130:ILE:CG2	2.40	0.48
1:N:224:LEU:O	1:N:224:LEU:CD1	2.49	0.48
1:N:44:ARG:N	1:N:47:LEU:HD12	2.29	0.48
2:O:269:ILE:HG22	2:O:269:ILE:O	2.13	0.48
2:O:521:LEU:CD2	2:O:686:GLN:HB3	2.43	0.48
2:O:548:ARG:HH12	3:P:788:LEU:CD2	2.27	0.48
3:P:126:LEU:HD22	3:P:216:LYS:HZ1	1.78	0.48
3:P:1319:PHE:CE2	3:P:1340:LYS:HB3	2.48	0.48
3:P:416:ILE:HG22	3:P:417:ARG:N	2.28	0.48
3:P:419:HIS:CE1	3:P:477:GLN:CD	2.88	0.48
3:P:544:LEU:HA	3:P:574:VAL:HB	1.94	0.48
3:P:646:ILE:HA	3:P:647:PRO:HD2	1.41	0.48
2:O:1104:PRO:CG	3:P:725:MET:HE1	2.44	0.48
3:P:820:ILE:HD11	3:P:1230:THR:HB	1.96	0.48
3:P:297:ARG:NH1	5:R:100:MET:HB2	2.29	0.48
5:R:587:ILE:N	5:R:587:ILE:HD13	2.29	0.48
7:5:4:DC:C2	7:5:5:DC:C4	3.02	0.47
2:C:1061:GLN:CB	2:C:1062:PRO:CD	2.92	0.47
2:C:715:THR:HB	2:C:784:ALA:O	2.14	0.47
3:D:886:VAL:HG13	3:D:1258:ARG:HA	1.95	0.47
2:C:1289:GLU:OE2	3:D:472:LEU:CB	2.60	0.47
2:I:34:SER:CB	2:I:457:GLY:H	2.26	0.47
3:J:842:ARG:NH1	3:J:1254:GLU:OE2	2.38	0.47
3:J:523:GLU:HA	3:J:547:ARG:O	2.14	0.47
1:M:112:ALA:HB3	1:M:126:PRO:HA	1.96	0.47
1:M:39:LEU:C	1:M:43:LEU:CG	2.77	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:21:DC:H2"	6:4:22:DC:C6	2.49	0.47
6:4:47:DC:C2	6:4:48:DA:C5	3.01	0.47
2:O:564:PRO:HB3	8:9:13:GTP:C5'	2.44	0.47
2:C:1025:PHE:HA	2:C:1028:LYS:HD2	1.97	0.47
2:C:931:VAL:HG13	2:C:1052:VAL:HG13	1.95	0.47
2:C:1247:SER:HA	3:D:349:TYR:HA	1.97	0.47
3:D:1101:LEU:HD13	3:D:1107:VAL:HG21	1.96	0.47
3:D:1109:LEU:HD13	3:D:1115:ILE:CG2	2.42	0.47
3:D:923:ILE:O	3:D:926:PRO:HD2	2.14	0.47
4:E:61:ASN:O	4:E:64:LEU:HB2	2.14	0.47
5:F:453:PRO:HG2	6:1:31:DT:O5'	2.14	0.47
1:G:115:ILE:HD12	1:G:123:ILE:CD1	2.44	0.47
1:G:81:ILE:H	1:G:81:ILE:HG13	1.41	0.47
1:H:61:ILE:CD1	1:H:171:LEU:HD11	2.45	0.47
2:I:693:LEU:HD12	2:I:693:LEU:O	2.13	0.47
3:J:1174:ARG:HE	3:J:1189:MET:HE3	1.79	0.47
2:I:1335:ILE:HG22	3:J:22:ILE:CG2	2.45	0.47
3:J:295:GLU:HA	3:J:295:GLU:OE1	2.13	0.47
3:J:320:ASN:CG	3:J:321:LYS:N	2.66	0.47
3:J:587:LEU:HG	3:J:612:LEU:HD11	1.95	0.47
3:J:797:THR:HG23	3:J:924:GLY:CA	2.32	0.47
3:J:786:THR:HA	3:J:935:PHE:HD2	1.79	0.47
3:J:68:TYR:OH	3:J:94:GLN:HG3	2.14	0.47
3:J:298:MET:SD	5:L:406:GLN:HG3	2.54	0.47
2:O:1101:LEU:O	3:P:731:ARG:HG2	2.14	0.47
2:O:149:LEU:CD1	2:O:451:ARG:HB3	2.42	0.47
2:O:90:VAL:HG11	5:R:476:ARG:HH22	1.79	0.47
3:P:579:LEU:HD23	3:P:579:LEU:HA	1.62	0.47
3:P:582:ILE:HD13	3:P:582:ILE:N	2.29	0.47
3:P:797:THR:CG2	3:P:924:GLY:CA	2.68	0.47
6:4:43:DT:H2'	6:4:44:DG:O4'	2.14	0.47
2:C:1281:TYR:CE1	3:D:431:ARG:HD2	2.49	0.47
2:C:91:THR:HG23	2:C:137:VAL:O	2.14	0.47
3:D:521:LYS:HZ3	3:D:541:LEU:HD23	1.79	0.47
5:F:117:ILE:HG23	5:F:421:TYR:CB	2.43	0.47
5:F:385:ARG:C	5:F:388:ILE:HG22	2.33	0.47
2:I:476:LYS:HA	2:I:479:LEU:HD12	1.96	0.47
2:I:705:GLU:OE1	2:I:705:GLU:N	2.47	0.47
2:I:710:VAL:HG13	2:I:717:VAL:HG21	1.96	0.47
3:J:1157:ALA:O	3:J:1223:LEU:HD13	2.14	0.47
3:J:141:PHE:HB3	3:J:293:ARG:HD3	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:127:LEU:CD1	3:J:227:PHE:CE2	2.97	0.47
3:J:363:LEU:CD2	3:J:618:VAL:HG13	2.44	0.47
5:L:423:ARG:HB3	5:L:425:TYR:HD2	1.79	0.47
2:O:433:ILE:O	2:O:436:ARG:HB3	2.13	0.47
2:O:524:ILE:HD11	2:O:712:SER:CB	2.13	0.47
2:O:590:PRO:HB3	2:O:605:TYR:CZ	2.49	0.47
1:M:66:HIS:HE1	2:O:929:ILE:HG12	1.78	0.47
3:P:1366:HIS:O	3:P:1370:MET:HG2	2.13	0.47
3:P:57:PHE:HB3	3:P:98:ARG:HH22	1.80	0.47
5:R:590:ILE:HG12	5:R:593:LYS:HZ2	1.76	0.47
1:A:44:ARG:HG3	1:A:183:ILE:CD1	2.43	0.47
2:C:1134:GLN:O	2:C:1136:GLN:N	2.48	0.47
2:C:23:ASP:OD1	2:C:23:ASP:N	2.46	0.47
3:D:693:VAL:HG11	3:D:743:MET:HE3	1.96	0.47
5:F:586:ARG:CG	5:F:587:ILE:HD13	2.44	0.47
1:G:140:ILE:HG12	1:G:141:SER:N	2.28	0.47
2:I:1103:VAL:HB	2:I:1104:PRO:CD	2.44	0.47
2:I:302:ILE:HG22	2:I:309:LEU:HD22	1.96	0.47
2:I:575:LEU:HG	2:I:576:SER:O	2.14	0.47
2:I:596:ASP:N	2:I:596:ASP:OD1	2.48	0.47
2:I:667:LEU:HD21	2:I:708:VAL:HG21	1.96	0.47
3:J:978:ARG:CB	3:J:1212:ASP:HB3	2.44	0.47
3:J:332:LYS:NZ	3:J:1329:THR:HG23	2.27	0.47
3:J:262:THR:O	5:L:507:MET:HB3	2.14	0.47
3:J:381:ILE:CD1	3:J:412:LEU:HA	2.34	0.47
3:J:492:SER:OG	3:J:495:ASN:O	2.31	0.47
3:J:784:ALA:O	3:J:788:LEU:HG	2.14	0.47
5:L:124:GLU:OE2	5:L:421:TYR:HE1	1.97	0.47
5:L:275:VAL:O	5:L:278:ASP:HB2	2.15	0.47
5:L:383:ASN:HD22	5:L:386:LEU:HD22	1.80	0.47
5:L:562:ARG:HD2	5:L:571:TYR:O	2.14	0.47
5:L:87:VAL:HG11	5:L:103:ARG:CD	2.44	0.47
1:M:104:LYS:HG3	1:M:105:SER:N	2.29	0.47
1:M:29:GLU:HB2	1:M:30:PRO:HA	1.95	0.47
1:N:56:VAL:HG21	1:N:85:LEU:O	2.15	0.47
2:O:689:ALA:HB1	2:O:1233:LEU:HD22	1.97	0.47
2:O:230:PHE:HE1	2:O:292:ILE:CD1	2.27	0.47
2:O:974:ARG:O	2:O:978:VAL:HG23	2.15	0.47
3:P:1037:PHE:CE1	3:P:1078:LEU:HD22	2.50	0.47
3:P:1138:LEU:HD23	3:P:1139:PRO:HD3	1.95	0.47
3:P:1209:VAL:HG12	3:P:1209:VAL:O	2.13	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:264:ASP:OD2	5:R:508:GLU:HB2	2.13	0.47
1:A:29:GLU:OE1	1:A:200:LYS:HB3	2.14	0.47
2:C:1268:GLN:NE2	3:D:351:GLY:C	2.65	0.47
2:C:1269:ARG:NH2	3:D:339:ARG:O	2.48	0.47
2:C:682:GLY:O	2:C:686:GLN:HG3	2.14	0.47
1:A:66:HIS:HB3	2:C:927:THR:HG21	1.96	0.47
3:D:1095:MET:SD	3:D:1173:ARG:NH2	2.86	0.47
3:D:135:ILE:H	3:D:135:ILE:HG13	1.28	0.47
3:D:449:LEU:HG	3:D:450:HIS:N	2.27	0.47
3:D:610:ARG:HH22	3:D:901:ARG:HH12	1.63	0.47
3:D:619:ILE:HG22	3:D:620:PHE:HA	1.95	0.47
3:D:701:LEU:HD11	3:D:720:ASN:CG	2.35	0.47
3:D:478:LEU:HB2	4:E:20:VAL:HG13	1.90	0.47
5:F:118:ASP:HB2	5:F:119:ILE:HD12	1.97	0.47
2:I:1326:LEU:CD2	3:J:342:LEU:HD11	2.45	0.47
3:J:515:ARG:NH1	3:J:724:MET:HG2	2.29	0.47
2:I:1187:PHE:CD1	3:J:769:VAL:HA	2.49	0.47
2:O:1252:SER:HB2	2:O:1259:LEU:HD23	1.95	0.47
2:O:1299:ASN:O	2:O:1302:THR:HG23	2.14	0.47
2:O:1309:VAL:HG13	3:P:383:GLY:CA	2.41	0.47
2:O:340:ASP:CG	2:O:341:LEU:H	2.18	0.47
3:P:1267:VAL:O	3:P:1268:ASN:HB2	2.14	0.47
3:P:160:LEU:HA	3:P:164:GLN:OE1	2.14	0.47
2:O:1223:ARG:CD	3:P:636:GLY:C	2.83	0.47
3:P:869:CYS:O	3:P:873:GLU:HG3	2.13	0.47
1:B:112:ALA:HB3	1:B:126:PRO:HA	1.96	0.47
3:D:1351:VAL:HG12	3:D:1352:ILE:HG13	1.96	0.47
3:D:265:LEU:O	3:D:269:TYR:HD2	1.98	0.47
3:D:27:PRO:O	3:D:31:ARG:HG3	2.14	0.47
2:C:1243:MET:HG3	3:D:372:MET:HE2	1.97	0.47
3:D:395:LYS:HD3	3:D:396:ALA:N	2.29	0.47
2:C:1277:ALA:HB3	3:D:434:ILE:HD12	1.96	0.47
3:D:744:ARG:NH2	3:D:940:ALA:HB2	2.29	0.47
3:D:826:ILE:HA	3:D:831:VAL:HA	1.97	0.47
5:F:385:ARG:HA	5:F:388:ILE:HG22	1.97	0.47
5:F:592:ALA:HA	5:F:595:LEU:HD12	1.96	0.47
1:H:178:SER:HA	1:H:179:PRO:HD2	1.61	0.47
1:H:48:LEU:HD21	1:H:183:ILE:HG22	1.95	0.47
2:I:387:ASN:CA	2:I:391:SER:HB2	2.45	0.47
2:I:581:THR:HG22	2:I:587:LEU:HD23	1.96	0.47
3:J:46:TYR:HD2	5:L:500:ILE:HD11	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:585:GLU:OE1	5:L:585:GLU:O	2.33	0.47
2:O:971:LEU:HD12	2:O:1014:LEU:HD22	1.97	0.47
3:P:1233:ILE:O	3:P:1237:VAL:CG2	2.57	0.47
3:P:1246:VAL:HG12	3:P:1246:VAL:O	2.14	0.47
3:P:363:LEU:HG	3:P:487:THR:CG2	2.45	0.47
3:P:812:ASP:OD1	3:P:812:ASP:N	2.47	0.47
3:P:335:GLN:HE22	5:R:518:HIS:CD2	2.33	0.47
1:A:43:LEU:C	1:A:47:LEU:HD12	2.34	0.47
2:C:1273:MET:O	2:C:1276:TRP:HB2	2.12	0.47
2:C:38:PHE:CE1	2:C:461:GLU:HA	2.49	0.47
2:C:693:LEU:HB2	2:C:831:ILE:HD11	1.97	0.47
3:D:1156:LEU:HD21	3:D:1209:VAL:HA	1.91	0.47
3:D:1274:PHE:O	3:D:1275:LEU:CB	2.62	0.47
3:D:849:LEU:CG	3:D:850:LYS:H	2.28	0.47
5:F:299:LYS:HD2	5:F:299:LYS:N	2.29	0.47
5:F:557:LYS:O	5:F:561:MET:HG3	2.14	0.47
1:H:14:VAL:HG21	1:H:29:GLU:CG	2.40	0.47
2:I:1292:THR:HG23	2:I:1293:VAL:HG22	1.95	0.47
2:I:32:LEU:HD23	2:I:130:MET:HE3	1.95	0.47
2:I:187:GLU:OE2	2:I:197:ARG:NE	2.48	0.47
2:I:212:ALA:HB3	2:I:385:PHE:CZ	2.50	0.47
2:I:538:LEU:N	2:I:538:LEU:CD2	2.66	0.47
3:J:1029:THR:HG23	3:J:1121:LEU:HG	1.94	0.47
3:J:422:LEU:O	3:J:468:VAL:HG13	2.15	0.47
3:J:501:VAL:CG1	3:J:502:PRO:N	2.77	0.47
2:I:1225:VAL:HA	3:J:638:SER:OG	2.15	0.47
5:L:345:GLN:O	5:L:348:GLU:HB2	2.15	0.47
1:M:231:PHE:HE1	1:N:28:LEU:HG	1.79	0.47
1:M:58:GLU:HG2	1:M:172:LEU:HD13	1.96	0.47
2:O:413:GLU:O	2:O:413:GLU:HG3	2.14	0.47
2:O:689:ALA:HB1	2:O:1233:LEU:HD13	1.96	0.47
3:P:427:PRO:HD3	8:9:16:U:O2'	2.14	0.47
5:R:592:ALA:HA	5:R:595:LEU:HD12	1.95	0.47
6:4:13:DC:H2"	6:4:14:DT:OP2	2.14	0.47
6:4:50:DT:H6	6:4:50:DT:C3'	2.17	0.47
6:7:19:DA:C2	7:8:45:DG:C2	3.03	0.47
1:A:45:ARG:HD3	1:B:38:THR:CB	2.42	0.47
1:B:224:LEU:CG	1:B:225:ALA:N	2.74	0.47
2:C:1242:LYS:HD3	3:D:465:GLN:NE2	2.30	0.47
2:C:1295:SER:HB3	2:C:1296:ASP:OD1	2.15	0.47
2:C:1331:ARG:HG3	2:C:1337:ILE:HG23	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:930:LEU:HB2	3:D:1134:ILE:HD11	1.96	0.47
3:D:401:VAL:HG13	3:D:408:VAL:HG11	1.96	0.47
3:D:40:LYS:HZ1	3:D:53:ARG:HE	1.62	0.47
3:D:786:THR:HG22	3:D:787:ALA:H	1.80	0.47
1:H:37:HIS:O	1:H:41:ASN:HB3	2.15	0.47
2:I:1190:ALA:O	2:I:1195:ILE:HD11	2.15	0.47
2:I:164:THR:O	2:I:165:HIS:CB	2.62	0.47
2:I:511:LEU:CD1	2:I:535:PRO:HD2	2.42	0.47
2:I:988:LYS:O	2:I:992:LEU:HB2	2.14	0.47
3:J:480:ALA:HA	3:J:484:MET:CG	2.44	0.47
3:J:536:LEU:HD22	3:J:541:LEU:CD1	2.44	0.47
3:J:596:LEU:CD2	3:J:600:ALA:HB3	2.45	0.47
1:N:187:VAL:HG12	1:N:201:LEU:CD1	2.44	0.47
2:O:1128:ILE:HG22	2:O:1132:LEU:CD1	2.42	0.47
2:O:161:LYS:CE	2:O:161:LYS:CA	2.61	0.47
2:O:228:VAL:HG11	2:O:239:MET:CE	2.45	0.47
2:O:530:ILE:CD1	2:O:558:VAL:CG2	2.93	0.47
2:O:727:VAL:CG2	2:O:773:LEU:HD13	2.24	0.47
3:P:339:ARG:NH2	3:P:1325:PHE:O	2.48	0.47
3:P:138:VAL:HG12	3:P:139:LEU:N	2.30	0.47
3:P:261:ALA:HA	5:R:505:ILE:O	2.14	0.47
3:P:643:ASP:CA	3:P:720:ASN:HD21	2.27	0.47
3:P:847:ASP:OD2	3:P:859:PRO:HA	2.15	0.47
3:P:811:GLU:O	3:P:895:CYS:HA	2.15	0.47
2:I:1261:GLY:HA2	7:5:17:DG:OP1	2.14	0.47
7:5:19:DA:C3'	7:5:19:DA:C8	2.98	0.47
1:A:46:ILE:HD12	1:A:224:LEU:HB2	1.95	0.47
2:C:1081:PRO:HB2	2:C:1083:GLU:OE1	2.15	0.47
2:C:1087:TYR:N	2:C:1087:TYR:CD1	2.82	0.47
2:C:1108:ASN:C	2:C:1109:ILE:HD13	2.35	0.47
2:C:1257:GLN:OE1	3:D:346:ARG:HG2	2.15	0.47
2:C:185:ASP:OD2	2:C:200:ARG:HD3	2.14	0.47
2:C:448:LEU:HB2	2:C:608:ALA:HB1	1.92	0.47
2:C:775:GLU:OE2	2:C:1171:ARG:NH1	2.48	0.47
3:D:1148:ARG:HG2	6:1:55:DC:OP1	2.14	0.47
3:D:1344:LEU:HD11	3:D:1353:VAL:HG21	1.96	0.47
2:C:1113:LEU:HA	3:D:641:ILE:HD11	1.96	0.47
2:I:21:VAL:HG11	2:I:592:ARG:CD	2.43	0.47
2:I:575:LEU:HD11	2:I:579:ALA:CB	2.45	0.47
2:I:723:VAL:O	2:I:734:ILE:HG13	2.14	0.47
2:I:765:ILE:HG22	2:I:765:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1254:GLU:HA	3:J:1257:VAL:CG2	2.45	0.47
3:J:233:LYS:HE3	3:J:235:GLU:OE2	2.14	0.47
3:J:83:VAL:HG12	3:J:84:ILE:N	2.29	0.47
5:L:231:THR:HG21	5:L:252:LEU:HD22	1.95	0.47
5:L:387:VAL:HG23	5:L:412:LEU:CD2	2.44	0.47
5:L:464:ASN:O	5:L:467:SER:HB2	2.13	0.47
5:L:585:GLU:OE1	5:L:585:GLU:C	2.53	0.47
1:M:31:LEU:HD11	1:M:39:LEU:CD1	2.45	0.47
2:O:1269:ARG:NH1	3:P:340:GLN:CG	2.74	0.47
3:P:424:ASN:O	3:P:466:MET:HE2	2.14	0.47
3:P:364:HIS:CE1	3:P:438:GLU:OE1	2.67	0.47
3:P:888:CYS:SG	3:P:894:VAL:HA	2.54	0.47
5:R:465:ARG:HH12	7:8:27:DA:C5'	2.27	0.47
5:R:580:PHE:O	5:R:581:ASP:HB2	2.14	0.47
5:R:91:ILE:HD11	5:R:103:ARG:HH22	1.80	0.47
6:4:45:DT:H6	6:4:45:DT:H3'	1.80	0.47
5:R:572:THR:HB	7:8:44:DT:H3'	1.97	0.47
7:8:4:DC:H2"	7:8:5:DC:OP2	2.15	0.47
1:A:67:GLU:HA	1:A:78:ILE:HG21	1.97	0.47
1:B:158:ARG:NH2	1:B:175:ALA:HB2	2.30	0.47
2:C:367:TYR:CD1	2:C:384:LEU:HD22	2.39	0.47
2:C:558:VAL:HG13	2:C:559:CYS:O	2.15	0.47
2:C:950:GLU:O	2:C:953:LEU:HB2	2.14	0.47
2:C:960:LEU:HB3	2:C:1025:PHE:CE1	2.50	0.47
2:C:987:GLU:O	2:C:991:LYS:HD2	2.15	0.47
3:D:1301:THR:CG2	3:D:1302:TYR:N	2.77	0.47
3:D:423:LEU:O	3:D:457:TYR:OH	2.26	0.47
3:D:427:PRO:HB3	7:2:13:DA:H2	1.80	0.47
3:D:705:THR:O	3:D:705:THR:HG22	2.15	0.47
5:F:262:VAL:HG12	5:F:264:LYS:HE3	1.97	0.47
2:C:1044:PRO:HG3	5:F:498:LEU:HD13	1.96	0.47
5:F:498:LEU:O	5:F:501:ALA:HB3	2.14	0.47
2:I:1024:GLU:HG2	2:I:1028:LYS:HE3	1.97	0.47
2:I:148:GLN:NE2	2:I:511:LEU:HD11	2.30	0.47
2:I:504:GLU:HA	2:I:504:GLU:OE2	2.14	0.47
2:I:557:ARG:HD3	2:I:587:LEU:CB	2.45	0.47
2:I:692:THR:OG1	2:I:693:LEU:N	2.45	0.47
2:I:96:LEU:HB2	2:I:127:ILE:HD11	1.96	0.47
3:J:1046:ILE:HD12	3:J:1059:LEU:HD13	1.97	0.47
3:J:1154:ALA:HB2	3:J:1213:GLY:CA	2.45	0.47
3:J:885:VAL:O	3:J:888:CYS:HB3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L:387:VAL:HG11	5:L:409:ASN:OD1	2.14	0.47
5:L:401:PHE:O	5:L:405:ILE:CG1	2.50	0.47
3:J:46:TYR:CD2	5:L:500:ILE:CD1	2.98	0.47
1:M:25:LYS:HE2	1:M:202:VAL:HG13	1.96	0.47
2:O:242:VAL:HB	2:O:245:ARG:HG3	1.97	0.47
2:O:201:ARG:HG3	2:O:370:MET:SD	2.55	0.47
2:O:675:ASP:OD2	2:O:677:ASN:HB2	2.15	0.47
2:O:732:ILE:CD1	2:O:753:LEU:HD11	2.45	0.47
2:O:896:THR:OG1	2:O:898:GLU:OE1	2.29	0.47
3:P:947:GLU:O	3:P:1022:PRO:HG3	2.15	0.47
3:P:385:LEU:HD22	3:P:400:MET:HE1	1.97	0.47
3:P:425:ARG:HD2	3:P:457:TYR:HB2	1.93	0.47
3:P:435:GLN:HB3	3:P:437:PHE:CE1	2.50	0.47
4:Q:28:ARG:O	4:Q:32:VAL:HG23	2.15	0.47
5:R:355:ILE:CD1	5:R:355:ILE:H	2.25	0.47
5:R:551:LEU:HA	5:R:597:LYS:NZ	2.29	0.47
6:4:43:DT:C6	6:4:43:DT:H3'	2.50	0.47
1:A:227:GLN:C	1:A:231:PHE:CZ	2.88	0.47
1:B:124:VAL:HG21	1:B:210:THR:CB	2.45	0.47
2:C:685:MET:HE1	2:C:1073:LYS:CD	2.45	0.47
2:C:520:PRO:HG3	2:C:714:VAL:HG11	1.96	0.47
2:C:766:ASN:HD22	2:C:767:GLN:N	2.12	0.47
2:C:788:SER:OG	2:C:796:LEU:HA	2.15	0.47
3:D:34:SER:OG	3:D:104:HIS:HB3	2.15	0.47
3:D:470:VAL:CG1	3:D:472:LEU:HD23	2.45	0.47
3:D:875:ASN:O	3:D:876:SER:CB	2.56	0.47
4:E:79:GLU:O	4:E:79:GLU:HG2	2.13	0.47
1:G:16:ILE:HG21	1:G:214:GLU:OE1	2.13	0.47
1:H:193:GLU:O	1:H:194:GLN:CB	2.62	0.47
1:H:75:GLN:HE21	1:H:134:THR:HG22	1.79	0.47
2:I:1330:ILE:HG22	2:I:1335:ILE:HB	1.97	0.47
2:I:30:ILE:H	2:I:30:ILE:HG13	1.32	0.47
2:I:868:SER:HB2	2:I:870:ILE:CD1	2.45	0.47
3:J:30:ILE:O	3:J:30:ILE:HG22	2.15	0.47
3:J:377:PHE:C	3:J:379:PRO:HD2	2.35	0.47
3:J:785:ASP:HB3	3:J:935:PHE:CE1	2.50	0.47
3:J:70:CYS:HB2	3:J:88:CYS:SG	2.55	0.47
5:L:554:ARG:CG	5:L:555:GLU:N	2.75	0.47
5:L:606:VAL:O	5:L:610:PHE:CD2	2.68	0.47
1:M:58:GLU:HB2	1:M:145:LYS:HD2	1.96	0.47
3:P:1134:ILE:HG23	3:P:1134:ILE:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:259:ARG:HH11	3:P:259:ARG:HB3	1.80	0.47
3:P:107:LEU:HD22	3:P:299:LEU:HD11	1.97	0.47
3:P:76:LYS:O	3:P:77:ARG:HB2	2.15	0.47
1:A:47:LEU:HD22	1:A:180:VAL:HG11	1.97	0.46
1:B:224:LEU:C	1:B:224:LEU:HD12	2.35	0.46
2:C:840:SER:OG	2:C:1048:LYS:O	2.32	0.46
2:C:691:PRO:HB3	2:C:788:SER:CB	2.45	0.46
3:D:1189:MET:HG2	3:D:1190:ILE:N	2.30	0.46
3:D:1252:HIS:CB	3:D:1253:ILE:HD12	2.42	0.46
3:D:1333:THR:O	3:D:1337:VAL:CG2	2.43	0.46
3:D:228:VAL:CG1	3:D:228:VAL:O	2.63	0.46
3:D:410:ASP:N	3:D:410:ASP:OD1	2.47	0.46
3:D:424:ASN:O	3:D:466:MET:CE	2.63	0.46
3:D:845:ALA:O	3:D:846:GLU:CB	2.63	0.46
5:F:585:GLU:O	5:F:585:GLU:OE1	2.33	0.46
2:I:1061:GLN:HB2	2:I:1062:PRO:CD	2.38	0.46
2:I:208:ILE:CG2	2:I:209:ILE:N	2.77	0.46
2:I:801:ARG:HG2	2:I:1229:TYR:CE1	2.50	0.46
2:I:854:ILE:CG2	2:I:857:VAL:HB	2.44	0.46
3:J:1344:LEU:HD23	3:J:1349:GLU:CB	2.36	0.46
3:J:1349:GLU:O	3:J:1353:VAL:HG13	2.15	0.46
3:J:322:ARG:CD	5:L:510:PRO:HD3	2.46	0.46
1:M:45:ARG:CD	1:N:38:THR:OG1	2.54	0.46
2:O:1068:GLY:CA	2:O:1232:MET:HE1	2.44	0.46
2:O:128:PRO:C	2:O:129:LEU:HD23	2.36	0.46
2:O:976:ARG:HH11	2:O:994:ARG:HH22	1.62	0.46
3:P:34:SER:HA	3:P:102:MET:O	2.15	0.46
3:P:432:LEU:HD13	3:P:435:GLN:HE21	1.78	0.46
3:P:499:ILE:CG2	3:P:500:ILE:N	2.69	0.46
5:R:299:LYS:O	5:R:302:PHE:HB3	2.15	0.46
5:R:306:PHE:O	5:R:310:GLU:HG3	2.15	0.46
5:R:465:ARG:NH1	7:8:27:DA:H5'	2.29	0.46
7:5:24:DT:H2"	7:5:25:DA:OP1	2.16	0.46
7:8:33:DC:H2"	7:8:34:DG:OP2	2.15	0.46
1:B:14:VAL:HG21	1:B:29:GLU:CG	2.46	0.46
2:C:1330:ILE:HD12	2:C:1337:ILE:CD1	2.43	0.46
2:C:206:ALA:HB1	2:C:429:MET:CE	2.45	0.46
2:C:159:SER:HB3	2:C:442:VAL:HG11	1.96	0.46
3:D:147:ILE:HD11	3:D:178:ALA:C	2.35	0.46
3:D:425:ARG:HB3	3:D:457:TYR:CD1	2.51	0.46
3:D:796:LEU:HG	3:D:797:THR:CA	2.42	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:E:53:GLU:HB3	4:E:59:ILE:HG12	1.97	0.46
2:I:151:ARG:HD2	2:I:445:ILE:HG22	1.94	0.46
2:I:363:LEU:HB3	2:I:381:ALA:HB1	1.98	0.46
2:I:395:TYR:CE2	2:I:420:LEU:HG	2.51	0.46
3:J:1101:LEU:CD2	3:J:1122:ALA:HB2	2.41	0.46
3:J:1169:THR:OG1	3:J:1174:ARG:CZ	2.64	0.46
3:J:1172:LYS:HD3	3:J:1189:MET:HE2	1.97	0.46
3:J:1259:GLN:O	3:J:1262:ARG:HB2	2.15	0.46
3:J:139:LEU:HG	3:J:139:LEU:H	1.51	0.46
3:J:238:ILE:HD13	3:J:238:ILE:HA	1.55	0.46
3:J:519:ASN:HA	3:J:523:GLU:HB2	1.97	0.46
3:J:536:LEU:HD22	3:J:541:LEU:HD13	1.96	0.46
3:J:690:ASN:HB2	3:J:743:MET:SD	2.55	0.46
4:K:70:GLN:HG3	4:K:73:GLN:NE2	2.30	0.46
5:L:421:TYR:C	5:L:421:TYR:CD2	2.88	0.46
5:L:95:THR:O	5:L:97:PRO:HD3	2.15	0.46
2:O:415:GLU:CG	2:O:416:GLY:N	2.78	0.46
2:O:523:GLU:HG3	2:O:527:LYS:HE3	1.98	0.46
2:O:668:ILE:CD1	2:O:686:GLN:HE22	2.28	0.46
3:P:322:ARG:NH1	3:P:322:ARG:O	2.48	0.46
3:P:613:GLY:O	3:P:617:THR:HG23	2.15	0.46
5:R:573:LEU:O	5:R:573:LEU:HD12	2.15	0.46
1:A:86:LYS:HE3	1:A:173:VAL:HG11	1.96	0.46
1:B:93:GLN:HB2	1:B:120:ASP:HB2	1.96	0.46
1:B:61:ILE:HD13	1:B:64:VAL:CG1	2.36	0.46
2:C:1048:LYS:C	2:C:1049:ILE:HG13	2.31	0.46
2:C:196:VAL:HG21	2:C:206:ALA:HA	1.97	0.46
2:C:250:THR:HG22	2:C:251:ALA:N	2.30	0.46
2:C:516:ASP:CB	2:C:522:SER:OG	2.63	0.46
2:C:590:PRO:HB3	2:C:605:TYR:CE1	2.50	0.46
2:C:170:VAL:CG2	3:D:1065:ALA:CB	2.93	0.46
3:D:1161:GLY:HA3	3:D:1179:PRO:HA	1.97	0.46
3:D:1224:ARG:CD	3:D:1228:ALA:HB1	2.31	0.46
3:D:422:LEU:HD12	3:D:469:HIS:C	2.36	0.46
3:D:608:CYS:SG	3:D:617:THR:CG2	2.96	0.46
3:D:749:LYS:HE3	3:D:755:ILE:HG12	1.97	0.46
4:E:20:VAL:HG12	4:E:21:LEU:HD23	1.98	0.46
2:I:700:VAL:CG1	2:I:1114:GLU:HG3	2.41	0.46
3:J:1265:THR:HG23	3:J:1305:ASP:OD2	2.15	0.46
3:J:255:LEU:HD22	3:J:256:ASP:OD1	2.16	0.46
3:J:703:THR:HB	3:J:704:GLU:H	1.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:795:TYR:CD1	7:5:12:DG:H5'	2.50	0.46
5:L:426:LYS:HG3	5:L:428:SER:H	1.80	0.46
2:O:1092:THR:HG22	2:O:1093:PRO:HD2	1.97	0.46
3:P:34:SER:OG	3:P:104:HIS:ND1	2.36	0.46
3:P:1155:ILE:HD11	3:P:1194:ARG:HD2	1.97	0.46
3:P:511:TYR:CE2	3:P:724:MET:HE3	2.51	0.46
5:R:437:GLN:HG2	6:7:35:DC:N4	2.30	0.46
7:2:25:DA:H2"	7:2:26:DT:OP2	2.16	0.46
5:L:455:HIS:CE1	6:4:31:DT:C6	2.97	0.46
6:7:33:DT:H2"	6:7:34:DG:C8	2.50	0.46
7:8:24:DT:OP1	7:8:24:DT:C4'	2.64	0.46
7:8:25:DA:H1'	7:8:26:DT:H5"	1.97	0.46
1:B:82:LEU:HD21	1:B:173:VAL:HG22	1.97	0.46
2:C:1272:GLU:HG2	3:D:343:LEU:HB3	1.97	0.46
2:C:269:ILE:HD12	2:C:273:HIS:CG	2.50	0.46
2:C:563:THR:HB	2:C:573:ASN:ND2	2.31	0.46
3:D:34:SER:OG	3:D:104:HIS:ND1	2.42	0.46
3:D:1323:ALA:CB	3:D:1332:LEU:HD21	2.44	0.46
3:D:303:VAL:O	3:D:306:LEU:HB3	2.16	0.46
3:D:355:ILE:HD12	3:D:461:PHE:CD1	2.50	0.46
3:D:410:ASP:O	3:D:413:ASP:HB3	2.15	0.46
5:F:235:ILE:CG2	5:F:240:ARG:HD3	2.44	0.46
5:F:323:ASN:O	5:F:324:LYS:CB	2.63	0.46
5:F:401:PHE:CA	5:F:404:LEU:HD12	2.42	0.46
5:F:588:ARG:O	5:F:591:GLU:HB3	2.16	0.46
1:G:232:VAL:HG23	1:H:221:ALA:CB	2.45	0.46
1:H:81:ILE:HA	1:H:84:ASN:ND2	2.30	0.46
2:I:1035:LYS:O	2:I:1036:ILE:CG1	2.61	0.46
2:I:1304:MET:HG2	2:I:1304:MET:O	2.14	0.46
2:I:218:GLU:CD	2:I:299:LYS:HD2	2.35	0.46
2:I:148:GLN:NE2	2:I:511:LEU:HD21	2.31	0.46
2:I:5:TYR:HA	2:I:8:LYS:CD	2.43	0.46
2:I:671:LEU:HD23	2:I:1186:VAL:HG11	1.96	0.46
2:I:896:THR:N	2:I:899:GLU:OE1	2.46	0.46
3:J:1199:PHE:O	3:J:1200:GLU:HB2	2.15	0.46
2:I:1326:LEU:CD2	3:J:342:LEU:HD13	2.45	0.46
3:J:369:PRO:HB2	3:J:372:MET:HB2	1.98	0.46
3:J:449:LEU:HD11	3:J:453:VAL:HG21	1.96	0.46
3:J:501:VAL:HG12	3:J:502:PRO:N	2.29	0.46
3:J:805:GLN:CA	3:J:1347:LEU:CD1	2.93	0.46
1:N:102:LEU:HD12	1:N:114:ASP:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1000:LEU:HG	2:O:1000:LEU:O	2.14	0.46
2:O:12:ARG:CZ	2:O:1181:PRO:HB2	2.44	0.46
2:O:1339:LEU:HD13	3:P:17:PHE:CZ	2.50	0.46
2:O:184:LEU:HA	2:O:184:LEU:HD23	1.41	0.46
2:O:35:PHE:CZ	2:O:129:LEU:HA	2.51	0.46
2:O:346:TYR:CD2	2:O:433:ILE:HD13	2.50	0.46
2:O:901:LEU:HD13	5:R:563:PHE:CE2	2.50	0.46
3:P:1138:LEU:CB	3:P:1139:PRO:CD	2.71	0.46
3:P:210:SER:HB3	3:P:213:LYS:CD	2.42	0.46
3:P:584:PRO:HD2	3:P:620:PHE:CD1	2.50	0.46
3:P:620:PHE:O	3:P:624:ILE:CG1	2.51	0.46
3:P:875:ASN:O	3:P:876:SER:CB	2.64	0.46
5:R:395:THR:HA	5:R:404:LEU:HD12	1.97	0.46
2:C:1323:PHE:CE1	2:C:1327:LEU:CD2	2.91	0.46
2:C:551:HIS:H	2:C:554:HIS:CE1	2.33	0.46
2:C:638:SER:O	2:C:639:LYS:HB3	2.15	0.46
3:D:1344:LEU:CD1	3:D:1353:VAL:HG21	2.46	0.46
3:D:188:LEU:O	3:D:188:LEU:HG	2.12	0.46
3:D:558:ASP:CG	3:D:559:ALA:H	2.18	0.46
3:D:809:VAL:HB	3:D:911:LYS:HA	1.97	0.46
1:G:163:GLU:HG2	1:G:163:GLU:H	1.64	0.46
2:I:1184:THR:O	2:I:1184:THR:CG2	2.63	0.46
2:I:176:ILE:HD11	2:I:405:PHE:HE2	1.80	0.46
2:I:559:CYS:HG	2:I:661:VAL:HG13	1.71	0.46
2:I:719:LYS:HD3	2:I:751:TYR:CE1	2.50	0.46
2:I:167:SER:CA	3:J:1064:SER:HB2	2.41	0.46
3:J:1098:GLN:O	3:J:1100:PHE:CE2	2.68	0.46
3:J:287:ALA:HB1	3:J:291:ILE:HD12	1.98	0.46
3:J:42:GLU:HG2	5:L:451:ARG:HB3	1.96	0.46
3:J:56:LEU:HD23	3:J:56:LEU:HA	1.58	0.46
3:J:797:THR:HA	3:J:800:LEU:CD1	2.46	0.46
5:L:583:THR:CG2	5:L:587:ILE:HD11	2.34	0.46
1:N:55:ALA:C	1:N:146:VAL:HG13	2.35	0.46
1:N:83:LEU:CD2	1:N:83:LEU:N	2.79	0.46
2:O:830:THR:OG1	2:O:1058:ARG:HB2	2.16	0.46
2:O:1132:LEU:HD21	2:O:1173:ALA:HB1	1.98	0.46
2:O:674:ASP:O	3:P:772:TYR:CZ	2.67	0.46
2:O:867:GLU:CD	2:O:943:LYS:HG2	2.35	0.46
3:P:1270:GLY:H	3:P:1274:PHE:HD2	1.62	0.46
3:P:223:LEU:O	3:P:227:PHE:HB2	2.15	0.46
3:P:318:GLY:HA2	3:P:324:LEU:HD21	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:688:ALA:C	3:P:692:ARG:HD2	2.33	0.46
3:P:923:ILE:O	3:P:926:PRO:CD	2.55	0.46
5:R:455:HIS:CE1	7:8:29:DC:C5	3.03	0.46
5:R:587:ILE:HA	5:R:590:ILE:HD12	1.97	0.46
6:1:34:DG:N7	6:1:35:DC:N4	2.64	0.46
5:L:509:THR:HG23	7:5:22:DA:H61	1.80	0.46
1:A:158:ARG:O	1:A:162:GLU:HB2	2.15	0.46
1:A:185:TYR:C	1:A:185:TYR:CD2	2.88	0.46
1:A:41:ASN:O	1:A:45:ARG:HG3	2.16	0.46
5:F:132:CYS:SG	5:F:257:LYS:HD3	2.54	0.46
3:D:79:LYS:NZ	5:F:569:THR:HB	2.31	0.46
2:I:1288:GLN:O	2:I:1292:THR:CG2	2.58	0.46
2:I:298:ALA:CA	2:I:336:LEU:HD21	2.46	0.46
3:J:1154:ALA:HB1	3:J:1211:SER:HB2	1.98	0.46
3:J:1145:PHE:CB	3:J:1309:ILE:HD11	2.27	0.46
3:J:130:MET:SD	3:J:135:ILE:CG1	2.95	0.46
3:J:796:LEU:HD12	3:J:800:LEU:HD21	1.98	0.46
4:K:30:MET:HE3	4:K:49:ILE:HG22	1.98	0.46
1:N:79:LEU:O	1:N:82:LEU:HB2	2.14	0.46
2:O:255:ILE:HD12	2:O:263:VAL:CB	2.43	0.46
2:O:227:LYS:CD	2:O:334:GLU:CD	2.76	0.46
2:O:719:LYS:HA	2:O:719:LYS:CE	2.32	0.46
2:O:797:GLY:HA3	2:O:1233:LEU:HG	1.97	0.46
2:O:947:GLU:O	2:O:950:GLU:HB3	2.16	0.46
3:P:824:PRO:HD3	3:P:878:ASP:O	2.16	0.46
4:Q:30:MET:HE1	4:Q:49:ILE:CD1	2.46	0.46
2:C:1256:GLN:HA	2:C:1256:GLN:OE1	2.14	0.46
2:C:269:ILE:HD13	2:C:269:ILE:HA	1.76	0.46
2:C:521:LEU:HD12	2:C:521:LEU:O	2.15	0.46
2:C:698:PRO:HD3	2:C:794:LEU:O	2.16	0.46
2:C:799:ASN:O	2:C:799:ASN:ND2	2.48	0.46
3:D:1123:ARG:O	3:D:1125:PRO:HD3	2.15	0.46
3:D:1156:LEU:N	3:D:1156:LEU:HD23	2.23	0.46
3:D:1252:HIS:HB2	3:D:1253:ILE:CD1	2.42	0.46
3:D:162:GLU:HB3	3:D:163:GLU:OE2	2.16	0.46
3:D:194:LEU:HB3	3:D:224:LEU:HD21	1.97	0.46
3:D:312:ARG:HG2	3:D:313:GLY:N	2.30	0.46
3:D:379:PRO:CG	3:D:380:PHE:N	2.77	0.46
3:D:610:ARG:NH2	3:D:901:ARG:NH1	2.63	0.46
3:D:894:VAL:HG22	3:D:915:ILE:CD1	2.45	0.46
4:E:31:GLN:OE1	4:E:46:THR:HG21	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:271:ASN:HA	5:F:274:ARG:HB2	1.98	0.46
5:F:407:GLU:CD	5:F:442:SER:HB3	2.36	0.46
2:I:190:PRO:C	3:J:1069:ALA:HB2	2.35	0.46
3:J:945:ALA:HB1	3:J:1023:HIS:CE1	2.51	0.46
3:J:449:LEU:HD12	3:J:450:HIS:H	1.81	0.46
3:J:481:ARG:O	3:J:485:MET:CB	2.56	0.46
3:J:708:ASN:ND2	3:J:712:GLN:O	2.48	0.46
5:L:574:GLU:OE1	5:L:574:GLU:HA	2.15	0.46
1:N:56:VAL:CA	1:N:146:VAL:HG22	2.44	0.46
1:N:211:ILE:HG22	1:N:212:ASP:O	2.15	0.46
3:P:366:CYS:SG	3:P:437:PHE:CB	3.04	0.46
3:P:600:ALA:O	3:P:603:LYS:HB2	2.16	0.46
3:P:452:LEU:HD11	3:P:625:MET:HB2	1.97	0.46
3:P:622:ASP:C	3:P:626:TYR:CD2	2.87	0.46
3:P:822:MET:HE2	3:P:838:ARG:HG2	1.97	0.46
1:A:71:LYS:HG2	1:A:72:GLU:N	2.31	0.46
2:C:1028:LYS:O	2:C:1032:LYS:HG2	2.16	0.46
2:C:1273:MET:HB2	7:2:14:DC:H4'	1.98	0.46
2:C:843:THR:HB	2:C:845:LEU:HG	1.98	0.46
3:D:198:CYS:SG	3:D:224:LEU:HD13	2.55	0.46
3:D:311:ARG:NH2	3:D:1329:THR:HG21	2.31	0.46
3:D:879:ALA:O	3:D:880:VAL:CG2	2.64	0.46
3:D:971:GLY:O	3:D:972:LYS:HG3	2.16	0.46
5:F:135:ALA:HB2	5:F:256:PHE:HB3	1.96	0.46
5:F:448:ARG:NE	5:F:503:GLU:OE2	2.48	0.46
2:I:935:THR:HA	2:I:1048:LYS:HG2	1.97	0.46
1:G:184:ALA:HB2	2:I:1091:GLY:HA3	1.98	0.46
2:I:340:ASP:O	2:I:342:ASP:N	2.49	0.46
3:J:620:PHE:O	3:J:624:ILE:CD1	2.59	0.46
3:J:846:GLU:HG2	3:J:847:ASP:N	2.30	0.46
2:O:1005:GLU:HG2	2:O:1006:GLU:H	1.80	0.46
2:O:1253:LEU:CD2	3:P:251:PRO:HG2	2.46	0.46
2:O:184:LEU:CD2	2:O:198:ILE:HA	2.46	0.46
2:O:178:PRO:CB	2:O:395:TYR:CZ	2.97	0.46
2:O:539:THR:HB	2:O:542:ARG:CB	2.46	0.46
2:O:809:GLY:HA3	3:P:629:PHE:CE1	2.50	0.46
2:O:882:ILE:HG12	2:O:919:ARG:HG2	1.97	0.46
2:O:953:LEU:O	2:O:957:LYS:HG3	2.16	0.46
2:O:980:VAL:O	2:O:980:VAL:CG1	2.63	0.46
3:P:120:LEU:HD23	3:P:121:PRO:HA	1.96	0.46
3:P:999:TYR:HE2	3:P:1027:VAL:HA	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:266:PHE:O	5:R:269:LEU:HB2	2.16	0.46
5:R:388:ILE:HG23	5:R:389:SER:N	2.30	0.46
5:R:573:LEU:HD23	7:8:45:DG:C8	2.51	0.46
5:R:91:ILE:HD11	5:R:103:ARG:NH1	2.30	0.46
2:I:1268:GLN:CA	7:5:16:DC:OP1	2.63	0.46
6:7:49:DG:O3'	6:7:50:DT:C4'	2.63	0.46
6:7:52:DT:H1'	6:7:53:DG:C5	2.50	0.46
1:A:77:ASP:O	1:A:81:ILE:HD12	2.16	0.46
2:C:1253:LEU:HB2	5:F:523:ILE:HG22	1.96	0.46
2:C:1309:VAL:HG13	3:D:383:GLY:N	2.31	0.46
2:C:1324:ASN:HA	2:C:1327:LEU:CD1	2.36	0.46
2:C:230:PHE:CE1	2:C:292:ILE:HD11	2.51	0.46
3:D:425:ARG:HH12	8:3:16:U:C2'	2.24	0.46
5:F:425:TYR:HD2	6:1:37:DA:N3	2.14	0.46
2:I:1029:LEU:C	2:I:1031:ALA:N	2.68	0.46
2:I:135:THR:HG22	2:I:144:VAL:CG2	2.46	0.46
2:I:267:ARG:HD3	2:I:268:ARG:H	1.81	0.46
3:J:1326:GLN:NE2	7:5:11:DA:H4'	2.30	0.46
3:J:583:VAL:HG12	3:J:584:PRO:O	2.16	0.46
3:J:572:THR:HG21	3:J:589:TYR:OH	2.16	0.46
4:K:54:ILE:HG12	4:K:59:ILE:HB	1.97	0.46
2:O:696:ASP:O	2:O:795:ALA:HB1	2.16	0.46
2:O:996:ARG:O	2:O:997:TRP:HD1	1.99	0.46
3:P:1075:ARG:HB3	3:P:1193:TRP:HB3	1.98	0.46
3:P:492:SER:OG	3:P:495:ASN:O	2.34	0.46
3:P:657:ALA:O	3:P:661:VAL:HG23	2.16	0.46
4:Q:10:VAL:HA	4:Q:19:LEU:HD22	1.97	0.46
7:8:37:DA:C2'	7:8:38:DG:OP2	2.64	0.46
2:C:1270:PHE:CE2	2:C:1278:LEU:HD12	2.51	0.46
2:C:1284:ALA:CB	3:D:1361:THR:HB	2.44	0.46
2:C:252:SER:O	2:C:265:LYS:HG3	2.15	0.46
2:C:314:ASN:HD22	2:C:351:LEU:HD13	1.77	0.46
2:C:551:HIS:ND1	2:C:553:THR:OG1	2.20	0.46
2:C:719:LYS:O	2:C:779:ARG:NH1	2.49	0.46
2:C:911:SER:O	2:C:913:VAL:N	2.49	0.46
3:D:245:LEU:HD11	3:D:249:LEU:HD12	1.98	0.46
3:D:367:GLY:HA3	3:D:448:GLN:HB2	1.97	0.46
3:D:416:ILE:HD12	3:D:441:LEU:HD11	1.98	0.46
3:D:422:LEU:O	3:D:423:LEU:HD23	2.16	0.46
3:D:967:VAL:CG2	3:D:973:LEU:HD12	2.45	0.46
4:E:46:THR:O	4:E:49:ILE:HB	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:141:ILE:CD1	5:F:256:PHE:CE1	2.94	0.46
1:H:51:MET:HE1	1:H:219:ARG:HB2	1.98	0.46
2:I:213:LEU:HD22	2:I:422:LYS:HD2	1.97	0.46
2:I:901:LEU:HG	2:I:905:ILE:HD11	1.97	0.46
3:J:147:ILE:O	3:J:188:LEU:HD13	2.16	0.46
3:J:736:GLN:HE21	3:J:736:GLN:HB3	1.52	0.46
5:L:262:VAL:HG13	5:L:263:PRO:HD2	1.98	0.46
1:M:86:LYS:HE2	1:M:173:VAL:HG13	1.98	0.46
2:O:979:LEU:CD1	2:O:1000:LEU:HD21	2.44	0.46
2:O:185:ASP:OD2	2:O:200:ARG:NE	2.49	0.46
3:P:1052:GLU:CG	3:P:1053:LEU:H	2.13	0.46
3:P:1150:PRO:HG2	3:P:1153:PRO:HB3	1.97	0.46
5:R:586:ARG:O	5:R:590:ILE:HG13	2.15	0.46
2:C:1186:VAL:HG12	2:C:1187:PHE:CD2	2.51	0.45
2:C:787:PRO:CG	2:C:788:SER:H	2.28	0.45
3:D:1023:HIS:O	3:D:1024:THR:HB	2.15	0.45
3:D:1194:ARG:NH1	3:D:1211:SER:HB3	2.29	0.45
3:D:1280:VAL:HG13	3:D:1281:GLU:N	2.31	0.45
3:D:275:ARG:HH11	3:D:302:ALA:HB2	1.81	0.45
3:D:555:TYR:HB3	3:D:563:LEU:HD22	1.97	0.45
3:D:650:LYS:NZ	3:D:765:GLU:OE2	2.49	0.45
5:F:585:GLU:OE2	5:F:588:ARG:HB3	2.16	0.45
1:H:178:SER:HB2	3:J:535:ARG:HH12	1.82	0.45
2:I:560:PRO:HB2	3:J:776:THR:CG2	2.42	0.45
2:I:724:VAL:HG21	2:I:771:VAL:HG21	1.97	0.45
3:J:1052:GLU:HG2	3:J:1053:LEU:N	2.32	0.45
3:J:1243:LEU:HD13	3:J:1244:GLN:HE21	1.81	0.45
3:J:591:ILE:HG21	3:J:604:MET:HE2	1.98	0.45
5:L:588:ARG:O	5:L:591:GLU:HB3	2.16	0.45
2:O:12:ARG:HG3	2:O:12:ARG:NH1	2.30	0.45
3:P:1230:THR:O	3:P:1234:VAL:CG2	2.44	0.45
5:R:399:LEU:HA	5:R:399:LEU:HD23	1.51	0.45
5:R:564:GLY:O	5:R:567:MET:O	2.34	0.45
6:1:33:DT:H2"	6:1:34:DG:C8	2.51	0.45
2:C:564:PRO:CB	8:3:13:GTP:O1A	2.65	0.45
6:4:53:DG:H1'	6:4:54:DA:H5"	1.97	0.45
5:R:386:LEU:HD22	6:7:41:DT:C2	2.52	0.45
1:A:71:LYS:CG	1:A:72:GLU:H	2.30	0.45
2:C:1273:MET:CB	2:C:1274:GLU:OE1	2.64	0.45
3:D:1179:PRO:CB	3:D:1182:GLY:O	2.64	0.45
2:C:1291:LEU:O	3:D:345:LYS:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:505:ASP:N	3:D:505:ASP:OD1	2.47	0.45
3:D:510:LEU:CD2	3:D:579:LEU:CD1	2.94	0.45
3:D:721:SER:O	3:D:725:MET:HG3	2.15	0.45
5:F:309:ASN:OD1	5:F:312:SER:HB3	2.17	0.45
5:F:540:LEU:O	5:F:544:THR:HG23	2.16	0.45
1:G:100:LEU:HD11	1:G:121:VAL:HG21	1.97	0.45
1:G:86:LYS:HG3	1:G:173:VAL:HG11	1.97	0.45
2:I:1313:HIS:N	2:I:1313:HIS:CD2	2.83	0.45
2:I:478:ARG:NH1	2:I:492:MET:O	2.49	0.45
2:I:700:VAL:HG22	2:I:1117:LEU:HD23	1.98	0.45
2:I:799:ASN:C	2:I:800:MET:HG2	2.36	0.45
3:J:395:LYS:HD3	5:L:609:SER:O	2.16	0.45
3:J:353:SER:HB3	3:J:447:ILE:HD11	1.97	0.45
3:J:462:ASP:N	3:J:462:ASP:OD1	2.48	0.45
3:J:530:PRO:HB2	3:J:581:MET:CG	2.47	0.45
3:J:544:LEU:HA	3:J:574:VAL:HB	1.98	0.45
2:O:253:PHE:CE1	2:O:288:PRO:HD2	2.51	0.45
2:O:405:PHE:CD1	2:O:405:PHE:C	2.89	0.45
2:O:557:ARG:HD3	2:O:587:LEU:CB	2.47	0.45
2:O:557:ARG:HG3	2:O:557:ARG:NH1	2.28	0.45
2:O:559:CYS:HA	2:O:560:PRO:HD2	1.63	0.45
2:O:657:THR:HG22	3:P:769:VAL:CG2	2.46	0.45
2:O:737:ASN:HB3	2:O:739:ASP:CG	2.36	0.45
2:O:823:VAL:HG12	2:O:1059:ARG:NH1	2.29	0.45
3:P:1036:ARG:O	3:P:1079:LYS:N	2.41	0.45
3:P:126:LEU:HD22	3:P:216:LYS:HZ2	1.77	0.45
3:P:237:MET:C	3:P:238:ILE:HD13	2.37	0.45
3:P:415:VAL:HA	4:Q:45:LYS:HZ2	1.81	0.45
3:P:536:LEU:HD21	3:P:541:LEU:HB3	1.98	0.45
3:D:425:ARG:NH2	8:3:16:U:H4'	2.29	0.45
7:5:27:DA:H2"	7:5:28:DG:H5'	1.97	0.45
7:5:6:DG:C5	7:5:7:DC:N4	2.84	0.45
3:P:1326:GLN:HE21	7:8:11:DA:H4'	1.82	0.45
2:C:1112:ILE:CG2	3:D:641:ILE:HG12	2.46	0.45
2:C:1172:LEU:O	2:C:1176:LEU:HG	2.16	0.45
2:C:1121:ALA:CB	2:C:1182:ILE:HD11	2.35	0.45
2:C:524:ILE:CG1	2:C:712:SER:HB3	2.45	0.45
3:D:151:MET:HG2	3:D:175:GLU:OE1	2.17	0.45
3:D:470:VAL:HB	3:D:472:LEU:HD23	1.89	0.45
3:D:783:LEU:CD1	3:D:783:LEU:H	2.26	0.45
3:D:835:LEU:HD12	3:D:839:VAL:HB	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:849:LEU:HD22	3:D:850:LYS:N	2.31	0.45
5:F:387:VAL:CG1	5:F:388:ILE:N	2.77	0.45
5:F:380:VAL:HG22	5:F:416:VAL:HG21	1.98	0.45
5:F:506:SER:O	5:F:509:THR:OG1	2.25	0.45
1:G:66:HIS:CE1	2:I:929:ILE:HG13	2.51	0.45
2:I:700:VAL:HG21	2:I:1114:GLU:CG	2.43	0.45
2:I:1116:HIS:CE1	2:I:1226:THR:HG23	2.51	0.45
2:I:1200:LYS:HE3	2:I:1206:THR:CG2	2.39	0.45
2:I:1225:VAL:HG22	3:J:638:SER:HB3	1.99	0.45
2:I:146:VAL:HG12	2:I:529:ARG:O	2.16	0.45
3:J:1068:THR:O	3:J:1072:LYS:HE2	2.15	0.45
3:J:230:SER:HB2	3:J:1339:GLY:HA3	1.97	0.45
3:J:349:TYR:CD2	3:J:472:LEU:HD11	2.51	0.45
4:K:76:GLU:O	4:K:80:LEU:HG	2.16	0.45
5:L:387:VAL:CG2	5:L:412:LEU:CD2	2.94	0.45
5:L:390:ILE:HG23	5:L:393:LYS:HZ3	1.81	0.45
5:L:481:GLU:O	5:L:485:GLU:HG3	2.16	0.45
2:O:189:ASP:CG	2:O:190:PRO:HD2	2.36	0.45
2:O:196:VAL:CG1	2:O:197:ARG:N	2.79	0.45
2:O:800:MET:SD	2:O:828:PHE:HE1	2.38	0.45
2:O:830:THR:HG23	2:O:1234:LYS:HZ1	1.81	0.45
3:P:271:ARG:NH1	3:P:316:ILE:CG2	2.80	0.45
3:P:501:VAL:HG12	3:P:502:PRO:CD	2.46	0.45
3:P:958:ILE:CG2	3:P:982:LEU:HD11	2.47	0.45
5:R:598:LEU:HA	5:R:598:LEU:HD23	1.79	0.45
1:A:163:GLU:HG3	1:A:164:ASP:N	2.31	0.45
1:A:47:LEU:CD2	1:A:180:VAL:HG11	2.45	0.45
1:B:48:LEU:HD23	1:B:180:VAL:HB	1.98	0.45
1:B:212:ASP:CG	1:B:213:PRO:HD2	2.37	0.45
1:B:91:ARG:HB2	1:B:210:THR:HG21	1.98	0.45
2:C:12:ARG:CZ	2:C:1181:PRO:HB2	2.46	0.45
2:C:878:THR:HG22	2:C:879:GLY:H	1.79	0.45
3:D:952:VAL:HG11	3:D:1011:VAL:CG2	2.46	0.45
5:F:153:ALA:O	5:F:155:GLU:N	2.48	0.45
2:I:1086:PRO:HB2	2:I:1212:LEU:HD22	1.98	0.45
2:I:1120:ALA:O	2:I:1124:ILE:HG13	2.15	0.45
2:I:422:LYS:HG2	2:I:422:LYS:H	1.48	0.45
2:I:592:ARG:NH1	2:I:592:ARG:HG3	2.32	0.45
2:I:661:VAL:HG11	2:I:665:ALA:CB	2.46	0.45
3:J:1011:VAL:HG11	3:J:1017:VAL:HG12	1.98	0.45
3:J:1080:ILE:HD12	3:J:1115:ILE:HD11	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:332:LYS:NZ	3:J:1329:THR:CG2	2.76	0.45
3:J:140:TYR:CE1	3:J:312:ARG:NH2	2.84	0.45
3:J:298:MET:HE3	5:L:403:ASP:N	2.30	0.45
5:L:102:MET:CE	6:4:42:DG:C4	2.99	0.45
5:L:465:ARG:HH22	7:5:27:DA:H5'	1.82	0.45
1:M:32:GLU:CG	1:M:33:ARG:N	2.76	0.45
1:M:8:PHE:CZ	1:N:223:ILE:CG1	2.97	0.45
2:O:1237:HIS:ND1	2:O:1242:LYS:HE3	2.30	0.45
2:O:347:ILE:HD13	2:O:347:ILE:N	2.32	0.45
3:P:337:ARG:CD	3:P:341:ASN:HD22	2.12	0.45
3:P:749:LYS:HE3	3:P:754:ILE:O	2.17	0.45
5:R:446:GLN:O	5:R:447:ALA:CB	2.62	0.45
5:R:469:GLN:O	5:R:472:GLN:HG2	2.16	0.45
5:R:585:GLU:OE1	5:R:585:GLU:O	2.34	0.45
7:2:27:DA:H2"	7:2:28:DG:H5'	1.98	0.45
2:C:1065:LYS:C	2:C:1066:MET:HG2	2.33	0.45
2:C:1081:PRO:CB	2:C:1083:GLU:OE1	2.65	0.45
2:C:1269:ARG:NH1	3:D:340:GLN:HG3	2.31	0.45
2:C:206:ALA:C	2:C:209:ILE:HG22	2.29	0.45
2:C:572:ILE:O	2:C:573:ASN:ND2	2.48	0.45
3:D:114:ILE:CD1	3:D:308:ASP:HB3	2.46	0.45
3:D:849:LEU:CD1	3:D:850:LYS:H	2.29	0.45
5:F:262:VAL:HG11	5:F:264:LYS:HE3	1.99	0.45
2:I:241:LEU:HD22	2:I:285:ILE:CD1	2.46	0.45
2:I:448:LEU:HD12	2:I:557:ARG:HD2	1.98	0.45
2:I:668:ILE:HG23	2:I:669:PRO:HD2	1.98	0.45
3:J:908:ILE:O	3:J:908:ILE:HG22	2.16	0.45
1:M:228:LEU:HD13	1:N:225:ALA:HB2	1.98	0.45
1:M:228:LEU:HD21	1:N:221:ALA:HA	1.98	0.45
1:N:75:GLN:HE21	1:N:134:THR:HG23	1.82	0.45
2:O:149:LEU:CD1	2:O:453:ILE:HD13	2.46	0.45
2:O:888:THR:HG22	2:O:889:PRO:HD2	1.98	0.45
3:P:245:LEU:HG	3:P:249:LEU:HD12	1.98	0.45
3:P:332:LYS:O	3:P:333:GLY:C	2.54	0.45
5:R:324:LYS:CB	5:R:325:PRO:HD3	2.47	0.45
5:R:503:GLU:CB	5:R:504:PRO:CD	2.93	0.45
1:B:100:LEU:HD23	1:B:100:LEU:HA	1.72	0.45
2:C:670:PHE:CD2	2:C:1113:LEU:HB2	2.52	0.45
2:C:1087:TYR:HE1	2:C:1215:GLY:CA	2.27	0.45
2:C:622:ASN:HB3	2:C:630:VAL:CB	2.46	0.45
3:D:1017:VAL:O	3:D:1018:ALA:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1261:LEU:HD22	3:D:1304:ARG:HB3	1.99	0.45
3:D:1320:ILE:HG13	3:D:1320:ILE:H	1.25	0.45
3:D:115:TRP:CZ3	3:D:1329:THR:O	2.70	0.45
3:D:1331:VAL:HG12	3:D:1332:LEU:HD23	1.98	0.45
3:D:503:SER:H	3:D:506:VAL:HG21	1.81	0.45
2:I:209:ILE:HG23	2:I:210:LEU:HG	1.96	0.45
2:I:634:VAL:O	2:I:644:LEU:HD22	2.16	0.45
3:J:747:MET:HG3	3:J:940:ALA:HB1	1.98	0.45
3:J:811:GLU:HB2	3:J:890:THR:HG23	1.98	0.45
5:L:297:MET:HA	5:L:326:TRP:CH2	2.52	0.45
5:L:455:HIS:HD2	5:L:455:HIS:N	1.98	0.45
5:L:452:ILE:HG23	5:L:456:MET:HB2	1.99	0.45
5:L:461:ASN:O	5:L:465:ARG:HG3	2.17	0.45
1:M:228:LEU:O	1:M:232:VAL:HG23	2.16	0.45
2:O:729:ALA:O	2:O:730:SER:CB	2.63	0.45
3:P:1224:ARG:HD3	3:P:1228:ALA:HB1	1.99	0.45
3:P:1356:LEU:HD13	3:P:1362:GLY:CA	2.46	0.45
2:O:1309:VAL:HA	3:P:383:GLY:HA3	1.99	0.45
3:P:411:ILE:O	3:P:415:VAL:HG23	2.16	0.45
3:P:635:SER:OG	3:P:636:GLY:N	2.48	0.45
8:3:13:GTP:H8	8:3:13:GTP:O3A	1.99	0.45
6:7:32:DA:N6	7:8:30:DA:N6	2.64	0.45
5:R:110:LEU:HD23	6:7:41:DT:C2	2.51	0.45
2:C:70:TYR:HA	2:C:100:LEU:HD23	1.97	0.45
2:C:1142:ARG:NH1	2:C:1169:VAL:HG21	2.31	0.45
2:C:1284:ALA:HB3	3:D:1361:THR:HG21	1.98	0.45
2:C:170:VAL:HG12	2:C:172:TYR:CE2	2.52	0.45
2:C:56:VAL:CG2	2:C:468:LEU:HD13	2.43	0.45
2:C:840:SER:OG	2:C:1048:LYS:N	2.50	0.45
3:D:337:ARG:CD	3:D:341:ASN:HD22	2.06	0.45
3:D:891:ASP:N	3:D:891:ASP:OD1	2.50	0.45
3:D:967:VAL:HG22	3:D:973:LEU:HD12	1.99	0.45
5:F:225:ARG:O	5:F:228:TYR:HB3	2.17	0.45
2:C:373:GLY:HA2	5:F:87:VAL:HG13	1.99	0.45
2:I:185:ASP:HB2	2:I:197:ARG:HB2	1.98	0.45
2:I:222:ASP:OD1	2:I:227:LYS:HE3	2.17	0.45
2:I:559:CYS:HA	2:I:560:PRO:HD2	1.78	0.45
2:I:870:ILE:HG13	2:I:944:ARG:HB2	1.98	0.45
3:J:367:GLY:HA3	3:J:448:GLN:HB2	1.98	0.45
3:J:85:CYS:HB3	3:J:88:CYS:SG	2.57	0.45
3:J:899:TYR:CE1	3:J:915:ILE:HG23	2.48	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:112:ALA:HB1	1:N:123:ILE:HG21	1.97	0.45
2:O:1243:MET:HG2	2:O:1244:HIS:N	2.31	0.45
2:O:890:LYS:HE2	2:O:893:THR:OG1	2.17	0.45
2:O:98:VAL:HB	2:O:124:MET:SD	2.57	0.45
3:P:1138:LEU:O	3:P:1141:VAL:HB	2.17	0.45
3:P:135:ILE:HG13	3:P:135:ILE:H	1.41	0.45
7:5:45:DG:H2"	7:5:46:DT:C5'	2.47	0.45
1:A:67:GLU:O	1:A:78:ILE:HB	2.17	0.45
2:C:1111:GLN:O	2:C:1230:MET:HE2	2.16	0.45
3:D:1280:VAL:HG12	3:D:1281:GLU:O	2.16	0.45
3:D:278:ARG:HG3	3:D:278:ARG:HH11	1.81	0.45
3:D:621:ALA:HA	3:D:624:ILE:HD12	1.98	0.45
3:D:661:VAL:HG12	3:D:665:GLN:NE2	2.32	0.45
3:D:762:ASN:OD1	3:D:765:GLU:HG3	2.17	0.45
3:D:796:LEU:O	3:D:799:ARG:HB2	2.17	0.45
3:D:829:GLY:HA2	3:D:995:TYR:CE1	2.52	0.45
3:D:879:ALA:O	3:D:880:VAL:HG23	2.16	0.45
3:D:974:VAL:HG11	3:D:1028:ILE:CG2	2.45	0.45
5:F:502:LYS:HA	5:F:502:LYS:HD2	1.79	0.45
1:G:38:THR:HG21	1:H:42:ALA:HA	1.95	0.45
2:I:675:ASP:CB	2:I:1107:MET:HE2	2.34	0.45
2:I:351:LEU:HD23	2:I:351:LEU:HA	1.67	0.45
2:I:435:ILE:HG12	2:I:440:GLY:HA3	1.97	0.45
3:J:1218:HIS:CD2	3:J:1306:LEU:HB3	2.52	0.45
3:J:65:VAL:HG22	3:J:98:ARG:NH1	2.32	0.45
3:J:820:ILE:HG22	3:J:821:MET:N	2.31	0.45
3:J:809:VAL:HB	3:J:912:GLY:H	1.82	0.45
5:L:484:ALA:HB2	5:L:494:ILE:HG12	1.99	0.45
2:I:1044:PRO:CB	5:L:498:LEU:HD13	2.47	0.45
5:L:506:SER:O	5:L:509:THR:OG1	2.25	0.45
3:P:271:ARG:HH12	3:P:316:ILE:CG2	2.27	0.45
3:P:759:ILE:HG12	3:P:771:GLN:HG2	1.99	0.45
3:P:807:LEU:HD21	3:P:1259:GLN:HG2	1.99	0.45
8:3:13:GTP:C8	8:3:13:GTP:O5'	2.70	0.45
3:J:120:LEU:HD13	6:4:57:DC:H5'	1.99	0.45
5:L:465:ARG:NH2	7:5:27:DA:H5'	2.32	0.45
7:8:17:DG:C2	8:9:13:GTP:C6	3.04	0.45
7:8:23:DT:H5"	7:8:23:DT:H6	1.82	0.45
1:A:223:ILE:O	1:A:227:GLN:HG2	2.16	0.45
2:C:1289:GLU:CD	3:D:472:LEU:CB	2.79	0.45
2:C:237:LEU:HD11	2:C:289:VAL:HG13	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:437:ASN:N	2:C:437:ASN:OD1	2.47	0.45
2:C:448:LEU:CD1	2:C:557:ARG:NH1	2.80	0.45
2:C:65:ASN:OD1	2:C:66:SER:N	2.50	0.45
2:C:896:THR:OG1	2:C:898:GLU:OE1	2.29	0.45
3:D:133:ARG:HG2	3:D:136:GLU:OE1	2.16	0.45
3:D:530:PRO:CD	3:D:531:LYS:HE2	2.46	0.45
5:F:551:LEU:CD1	5:F:559:LEU:CD1	2.95	0.45
1:G:142:MET:HB3	1:G:142:MET:HE3	1.55	0.45
2:I:106:GLU:HG2	2:I:115:LYS:HD2	1.98	0.45
2:I:661:VAL:HG12	2:I:662:SER:N	2.32	0.45
2:I:870:ILE:HG21	2:I:944:ARG:HD3	1.95	0.45
3:J:1229:VAL:HG13	3:J:1230:THR:H	1.82	0.45
3:J:1250:ASP:O	3:J:1254:GLU:HG3	2.16	0.45
2:I:1258:PRO:HG2	3:J:346:ARG:C	2.37	0.45
3:J:515:ARG:HH21	3:J:717:VAL:CB	2.24	0.45
2:I:1107:MET:CG	3:J:740:LEU:HD21	2.46	0.45
5:L:593:LYS:O	5:L:597:LYS:HG3	2.17	0.45
1:M:191:ARG:O	1:M:191:ARG:HG2	2.16	0.45
1:N:150:ARG:HG3	1:N:150:ARG:O	2.16	0.45
2:O:1088:ASP:OD1	2:O:1088:ASP:N	2.47	0.45
2:O:312:ALA:O	2:O:314:ASN:N	2.50	0.45
2:O:802:VAL:HG22	2:O:1096:ILE:O	2.17	0.45
3:P:1307:LEU:HB2	3:P:1312:ALA:HB2	1.97	0.45
3:P:1350:ASN:HD21	3:P:1366:HIS:CE1	2.35	0.45
3:P:161:THR:H	3:P:164:GLN:NE2	2.15	0.45
5:R:489:MET:HB3	5:R:490:PRO:HD2	1.99	0.45
6:4:43:DT:H6	6:4:43:DT:H3'	1.82	0.45
8:9:13:GTP:O3A	8:9:13:GTP:C8	2.55	0.45
1:B:153:VAL:HG13	1:B:157:THR:HB	1.99	0.45
1:B:151:GLY:HA2	1:B:178:SER:OG	2.16	0.45
2:C:15:PHE:HA	2:C:1155:VAL:HG23	1.98	0.45
2:C:1245:ALA:HB1	3:D:375:GLU:CB	2.47	0.45
2:C:1277:ALA:O	2:C:1281:TYR:CD2	2.70	0.45
2:C:1284:ALA:O	2:C:1287:LEU:HB3	2.17	0.45
2:C:530:ILE:CD1	2:C:575:LEU:N	2.80	0.45
2:C:559:CYS:HB2	2:C:662:SER:H	1.81	0.45
2:C:58:PRO:HB3	2:C:69:GLN:HG2	1.98	0.45
2:C:731:ARG:NH1	2:C:752:ASN:OD1	2.50	0.45
3:D:1145:PHE:HZ	3:D:1253:ILE:HG23	1.82	0.45
3:D:192:MET:HE3	3:D:192:MET:HB2	1.95	0.45
3:D:230:SER:OG	3:D:232:ASN:ND2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:331:ILE:CG2	3:D:338:PHE:CE2	2.99	0.45
3:D:349:TYR:CB	3:D:470:VAL:CG2	2.90	0.45
3:D:664:ILE:HG12	3:D:681:LYS:HZ3	1.82	0.45
3:D:705:THR:O	3:D:707:ILE:HG13	2.17	0.45
5:F:511:ILE:CD1	5:F:519:LEU:HA	2.46	0.45
2:I:1270:PHE:CE1	2:I:1274:GLU:HB3	2.52	0.45
2:I:469:VAL:O	2:I:472:GLU:HG2	2.17	0.45
3:J:111:THR:HG23	3:J:112:ALA:H	1.79	0.45
3:J:279:LEU:HA	3:J:282:LEU:HD12	1.98	0.45
3:J:285:LEU:HD23	3:J:285:LEU:HA	1.79	0.45
5:L:390:ILE:HG23	5:L:393:LYS:NZ	2.33	0.45
1:M:153:VAL:O	1:M:153:VAL:HG12	2.17	0.45
2:O:1272:GLU:HB3	2:O:1276:TRP:CZ2	2.52	0.45
2:O:592:ARG:NH2	2:O:600:THR:O	2.50	0.45
2:O:968:GLU:HG3	2:O:972:PHE:CE1	2.52	0.45
3:P:382:TYR:HD1	3:P:397:ALA:CB	2.27	0.45
3:P:530:PRO:HB2	3:P:581:MET:HG2	1.97	0.45
3:P:678:ARG:O	3:P:682:VAL:HG23	2.17	0.45
3:P:973:LEU:HD23	3:P:1003:LEU:HD12	2.00	0.45
4:Q:15:ASN:OD1	4:Q:16:ARG:N	2.50	0.45
4:Q:30:MET:CE	4:Q:49:ILE:HG21	2.47	0.45
7:5:22:DA:C1'	7:5:23:DT:OP1	2.63	0.44
2:C:800:MET:O	2:C:802:VAL:HG23	2.17	0.44
2:C:170:VAL:HG23	3:D:1065:ALA:CA	2.47	0.44
3:D:1078:LEU:HD12	3:D:1101:LEU:HD21	1.99	0.44
3:D:1319:PHE:CD2	3:D:1340:LYS:HD3	2.51	0.44
3:D:579:LEU:HA	3:D:579:LEU:HD23	1.60	0.44
4:E:20:VAL:O	4:E:21:LEU:HD23	2.17	0.44
5:F:266:PHE:O	5:F:270:VAL:HG23	2.17	0.44
5:F:392:LYS:HD3	6:1:43:DT:O3'	2.17	0.44
1:G:112:ALA:O	1:G:115:ILE:CG1	2.65	0.44
1:G:102:LEU:CD1	1:G:114:ASP:C	2.85	0.44
1:H:217:ILE:HG22	1:H:218:ARG:N	2.32	0.44
2:I:103:VAL:HG13	2:I:117:ILE:HG23	1.99	0.44
2:I:1275:VAL:HB	2:I:1279:GLU:OE2	2.15	0.44
2:I:736:VAL:O	2:I:741:MET:HE2	2.16	0.44
2:I:948:ILE:O	2:I:951:MET:HB2	2.17	0.44
2:I:191:LYS:HG2	3:J:1069:ALA:CB	2.46	0.44
3:J:135:ILE:O	3:J:139:LEU:CG	2.63	0.44
3:J:140:TYR:HE1	3:J:312:ARG:NH2	2.16	0.44
3:J:68:TYR:CA	3:J:92:VAL:CG1	2.93	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:961:SER:O	3:J:962:ASN:HB2	2.16	0.44
5:L:101:TYR:CD2	5:L:101:TYR:C	2.91	0.44
5:L:503:GLU:CB	5:L:504:PRO:HD2	2.44	0.44
1:M:102:LEU:HD21	1:M:130:ILE:CD1	2.47	0.44
1:N:79:LEU:H	1:N:79:LEU:HG	1.08	0.44
2:O:1223:ARG:HD2	3:P:635:SER:C	2.37	0.44
2:O:340:ASP:HA	2:O:344:GLY:CA	2.40	0.44
2:O:420:LEU:HA	2:O:420:LEU:HD23	1.83	0.44
2:O:804:PHE:HE1	2:O:1103:VAL:CG2	2.29	0.44
2:O:942:ASP:O	2:O:945:ALA:HB3	2.16	0.44
3:P:205:LEU:HD21	3:P:217:LEU:HD12	1.99	0.44
3:P:265:LEU:HD23	3:P:265:LEU:N	2.31	0.44
3:P:503:SER:C	3:P:507:VAL:HG23	2.36	0.44
5:R:97:PRO:HA	5:R:100:MET:HG3	1.98	0.44
6:4:46:DG:C8	6:4:46:DG:H5"	2.53	0.44
1:A:42:ALA:O	1:A:46:ILE:HG13	2.17	0.44
1:A:51:MET:HB3	1:A:179:PRO:HD2	1.99	0.44
2:C:896:THR:HG21	2:C:898:GLU:HB2	1.94	0.44
3:D:979:ASN:HB2	3:D:1197:ASN:HD21	1.82	0.44
3:D:394:ILE:O	3:D:397:ALA:HB3	2.17	0.44
3:D:697:MET:HB3	3:D:697:MET:HE2	1.61	0.44
3:D:872:LEU:HD23	3:D:872:LEU:HA	1.54	0.44
3:D:986:ASP:N	3:D:986:ASP:OD1	2.50	0.44
5:F:91:ILE:O	5:F:93:ARG:N	2.46	0.44
2:I:1107:MET:HE3	3:J:763:PHE:CE2	2.52	0.44
2:I:1289:GLU:O	2:I:1293:VAL:HG23	2.16	0.44
2:I:169:LYS:HA	3:J:1065:ALA:O	2.18	0.44
2:I:393:ASP:N	2:I:393:ASP:OD1	2.50	0.44
2:I:732:ILE:HD11	2:I:769:PRO:HB3	1.99	0.44
2:I:836:LEU:HD23	2:I:836:LEU:HA	1.54	0.44
2:I:980:VAL:O	2:I:980:VAL:HG12	2.16	0.44
3:J:1168:GLU:OE2	3:J:1173:ARG:NH2	2.50	0.44
3:J:1169:THR:OG1	3:J:1174:ARG:NH2	2.50	0.44
3:J:179:LYS:CG	3:J:180:MET:H	2.31	0.44
3:J:385:LEU:CD2	3:J:391:ALA:HB2	2.33	0.44
3:J:530:PRO:HB2	3:J:581:MET:HG2	1.98	0.44
3:J:62:PHE:C	3:J:98:ARG:HG3	2.38	0.44
2:O:120:GLN:NE2	2:O:490:GLN:OE1	2.50	0.44
2:O:346:TYR:HB2	2:O:347:ILE:HD13	1.99	0.44
2:O:363:LEU:HD23	2:O:366:ILE:HD12	1.99	0.44
2:O:698:PRO:HA	2:O:1231:TYR:HE1	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:159:ILE:H	3:P:159:ILE:HG13	1.41	0.44
3:P:609:TYR:CD1	3:P:609:TYR:C	2.91	0.44
3:P:930:LEU:HB3	3:P:1134:ILE:CG1	2.47	0.44
5:R:322:MET:O	5:R:323:ASN:HB2	2.16	0.44
5:R:456:MET:O	5:R:460:ILE:HG13	2.17	0.44
1:A:91:ARG:HB2	1:A:122:GLU:HB3	2.00	0.44
2:C:1106:ARG:O	2:C:1107:MET:HB2	2.17	0.44
2:C:1278:LEU:HD13	2:C:1287:LEU:CA	2.42	0.44
2:C:1280:ALA:CB	3:D:431:ARG:HB3	2.48	0.44
2:C:267:ARG:HD3	2:C:268:ARG:N	2.32	0.44
2:C:496:LYS:CB	2:C:497:PRO:CD	2.95	0.44
3:D:141:PHE:CZ	3:D:181:GLY:HA3	2.52	0.44
3:D:281:ARG:O	3:D:285:LEU:HG	2.18	0.44
3:D:423:LEU:CB	3:D:466:MET:HE1	2.48	0.44
3:D:697:MET:HE3	3:D:738:ARG:HA	1.99	0.44
5:F:450:ILE:HG12	5:F:450:ILE:O	2.17	0.44
5:F:505:ILE:HA	5:F:505:ILE:HD13	1.75	0.44
1:G:47:LEU:HA	1:G:51:MET:HG2	1.99	0.44
2:I:1237:HIS:C	2:I:1238:LEU:HD23	2.38	0.44
3:J:105:ILE:HD11	3:J:244:VAL:HG21	1.98	0.44
3:J:513:MET:HE2	3:J:579:LEU:HD21	1.91	0.44
3:J:739:GLN:HG2	3:J:744:ARG:HG3	1.99	0.44
3:J:915:ILE:HG22	3:J:915:ILE:O	2.16	0.44
2:O:1230:MET:SD	2:O:1232:MET:HE3	2.56	0.44
2:O:409:LEU:HD23	2:O:431:LYS:HD2	1.99	0.44
2:O:719:LYS:HE2	2:O:719:LYS:CA	2.41	0.44
3:P:1028:ILE:CG2	3:P:1118:GLY:HA2	2.48	0.44
3:P:1172:LYS:HD3	3:P:1189:MET:CE	2.47	0.44
3:P:1311:LYS:H	3:P:1311:LYS:HG3	1.48	0.44
3:P:1314:LEU:HG	3:P:1314:LEU:H	1.59	0.44
3:P:182:ALA:HA	3:P:185:ILE:CD1	2.44	0.44
3:P:491:LEU:HB3	3:P:496:GLY:O	2.18	0.44
3:P:584:PRO:HG3	3:P:620:PHE:HB2	1.99	0.44
4:Q:48:VAL:O	4:Q:51:LEU:HB2	2.17	0.44
7:5:18:DT:H2'	7:5:19:DA:H5'	1.99	0.44
5:R:386:LEU:HD13	6:7:41:DT:C6	2.52	0.44
1:A:47:LEU:O	1:A:51:MET:HB2	2.17	0.44
1:B:140:ILE:HA	1:B:140:ILE:HD12	1.74	0.44
1:B:78:ILE:HA	1:B:81:ILE:HD12	1.99	0.44
2:C:1305:TYR:HA	2:C:1308:ILE:HD12	1.99	0.44
2:C:538:LEU:CD2	2:C:538:LEU:N	2.69	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:844:LYS:NZ	3:D:47:ARG:HD3	2.32	0.44
2:C:870:ILE:HB	2:C:944:ARG:HD3	1.99	0.44
2:C:901:LEU:HG	2:C:905:ILE:HD11	1.99	0.44
3:D:1320:ILE:HD11	3:D:1342:ASP:CB	2.48	0.44
3:D:169:LEU:HD12	3:D:173:GLY:HA2	1.99	0.44
3:D:325:LYS:HE2	3:D:330:MET:HA	1.99	0.44
3:D:416:ILE:HD13	3:D:441:LEU:HG	1.98	0.44
3:D:505:ASP:O	3:D:508:LEU:HB3	2.18	0.44
3:D:555:TYR:HB3	3:D:563:LEU:HB3	1.98	0.44
3:D:70:CYS:HA	3:D:90:VAL:HG11	1.98	0.44
1:G:112:ALA:O	1:G:115:ILE:HG13	2.18	0.44
2:I:1024:GLU:HG2	2:I:1028:LYS:CE	2.48	0.44
2:I:1161:LEU:O	2:I:1163:THR:N	2.51	0.44
2:I:1205:PRO:HG2	2:I:1210:ILE:CD1	2.48	0.44
2:I:1326:LEU:HD21	3:J:342:LEU:CD1	2.46	0.44
2:I:70:TYR:CZ	2:I:72:SER:HA	2.53	0.44
3:J:97:VAL:CG1	3:J:101:ARG:CD	2.95	0.44
3:J:825:VAL:HG21	3:J:1242:ARG:HH12	1.82	0.44
3:J:224:LEU:O	3:J:227:PHE:CB	2.66	0.44
5:L:333:VAL:O	5:L:333:VAL:HG13	2.17	0.44
3:J:298:MET:SD	5:L:406:GLN:CG	3.05	0.44
5:L:387:VAL:HA	5:L:435:ILE:HD13	1.98	0.44
2:O:13:LYS:HE3	2:O:1149:TYR:O	2.16	0.44
2:O:883:LEU:HD11	2:O:920:VAL:HG22	1.99	0.44
2:O:960:LEU:HD22	2:O:1025:PHE:HD1	1.81	0.44
3:P:163:GLU:OE2	5:R:81:ALA:HB1	2.18	0.44
3:P:303:VAL:HG12	3:P:307:LEU:HD11	2.00	0.44
3:P:793:SER:O	3:P:796:LEU:HB3	2.18	0.44
3:P:960:LEU:CD2	3:P:982:LEU:HD13	2.48	0.44
4:Q:17:PHE:N	4:Q:17:PHE:CD1	2.84	0.44
5:R:414:LYS:HD3	5:R:434:TRP:HZ3	1.79	0.44
5:R:121:LYS:NZ	5:R:421:TYR:OH	2.33	0.44
1:A:35:PHE:CE2	1:B:50:SER:OG	2.62	0.44
2:C:1101:LEU:HD11	3:D:508:LEU:CD2	2.47	0.44
2:C:1277:ALA:O	2:C:1281:TYR:HD2	2.01	0.44
2:C:805:MET:HE2	2:C:806:PRO:O	2.17	0.44
3:D:1357:ILE:HA	3:D:1358:PRO:HD3	1.80	0.44
3:D:536:LEU:HD21	3:D:541:LEU:O	2.18	0.44
3:D:610:ARG:NH2	3:D:901:ARG:HH12	2.16	0.44
2:C:894:GLN:HE22	3:D:76:LYS:HB2	1.81	0.44
3:D:899:TYR:C	3:D:899:TYR:CD2	2.91	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:476:ARG:HG3	5:F:477:GLU:HG2	1.99	0.44
5:F:543:ALA:O	5:F:547:VAL:HG23	2.17	0.44
1:H:97:GLU:HG3	1:H:147:GLN:HG2	2.00	0.44
1:H:75:GLN:NE2	1:H:134:THR:HG22	2.33	0.44
2:I:11:ILE:O	2:I:1181:PRO:HG2	2.17	0.44
2:I:1187:PHE:CE1	3:J:769:VAL:HA	2.53	0.44
2:I:1326:LEU:HA	2:I:1326:LEU:HD12	1.73	0.44
2:I:208:ILE:HG23	2:I:209:ILE:N	2.32	0.44
2:I:495:ALA:HA	2:I:498:ILE:HD12	1.98	0.44
3:J:1184:ASP:HA	3:J:1185:PRO:HD3	1.87	0.44
3:J:227:PHE:CE1	3:J:234:PRO:HD3	2.49	0.44
3:J:694:SER:HA	3:J:697:MET:HE1	1.99	0.44
3:J:650:LYS:NZ	3:J:765:GLU:OE2	2.43	0.44
5:L:167:ASP:OD2	5:L:262:VAL:HG21	2.17	0.44
5:L:302:PHE:HE1	5:L:315:TRP:CH2	2.36	0.44
1:M:131:CYS:SG	1:M:132:HIS:N	2.89	0.44
1:M:61:ILE:HG12	1:M:142:MET:HB3	1.98	0.44
1:N:228:LEU:HD22	1:N:228:LEU:O	2.18	0.44
2:O:1234:LYS:HE2	2:O:1238:LEU:HD21	2.00	0.44
2:O:35:PHE:HZ	2:O:129:LEU:HA	1.83	0.44
3:P:1046:ILE:CD1	3:P:1059:LEU:HD22	2.47	0.44
3:P:1073:ASP:O	3:P:1075:ARG:HG2	2.18	0.44
3:P:1190:ILE:HD13	3:P:1196:LEU:HD11	1.99	0.44
3:P:343:LEU:HD23	3:P:1351:VAL:HG11	2.00	0.44
2:O:1280:ALA:HB3	3:P:431:ARG:HB3	1.99	0.44
3:P:51:PRO:HB3	3:P:57:PHE:C	2.38	0.44
3:P:583:VAL:HG12	3:P:584:PRO:O	2.17	0.44
3:P:698:MET:SD	3:P:737:ILE:CD1	3.05	0.44
5:R:390:ILE:HD12	5:R:435:ILE:HD12	1.99	0.44
7:8:5:DC:H2"	7:8:6:DG:H5'	1.99	0.44
1:A:228:LEU:HG	1:A:231:PHE:HE2	1.83	0.44
2:C:797:GLY:N	2:C:1233:LEU:HD21	2.33	0.44
2:C:1243:MET:HA	3:D:353:SER:OG	2.18	0.44
2:C:131:THR:HG23	2:C:135:THR:O	2.18	0.44
2:C:980:VAL:CG1	2:C:980:VAL:O	2.65	0.44
3:D:653:ILE:HG23	3:D:692:ARG:NH1	2.33	0.44
3:D:799:ARG:O	3:D:803:VAL:HG23	2.18	0.44
3:D:894:VAL:HG23	3:D:895:CYS:C	2.38	0.44
1:G:112:ALA:HB2	1:G:128:HIS:HB3	2.00	0.44
1:H:124:VAL:HG21	1:H:210:THR:OG1	2.17	0.44
2:I:666:SER:OG	2:I:704:MET:HE1	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:J:1023:HIS:O	3:J:1024:THR:CB	2.65	0.44
3:J:1221:LEU:CD1	3:J:1226:VAL:HA	2.48	0.44
3:J:1266:ILE:CD1	3:J:1278:GLU:CB	2.90	0.44
3:J:217:LEU:HA	3:J:217:LEU:HD23	1.80	0.44
3:J:685:ILE:HG13	3:J:685:ILE:H	1.54	0.44
2:O:1298:VAL:HG22	2:O:1301:ARG:NH2	2.32	0.44
2:O:1288:GLN:HG2	2:O:1315:MET:SD	2.58	0.44
2:O:149:LEU:HG	2:O:451:ARG:NE	2.31	0.44
2:O:704:MET:O	2:O:708:VAL:HG23	2.18	0.44
2:O:761:GLN:O	2:O:762:ASN:CB	2.64	0.44
2:O:873:ILE:H	2:O:873:ILE:HG13	1.56	0.44
3:P:1216:ALA:HA	3:P:1217:PRO:HD2	1.68	0.44
3:P:176:PHE:O	3:P:177:ASP:OD1	2.36	0.44
3:P:254:PRO:HB3	3:P:260:PHE:CE1	2.53	0.44
3:P:518:VAL:HG12	3:P:519:ASN:OD1	2.17	0.44
3:P:736:GLN:H	3:P:736:GLN:HG2	1.53	0.44
3:P:790:THR:HG21	3:P:932:MET:HG3	1.99	0.44
5:R:428:SER:OG	6:7:41:DT:C7	2.64	0.44
7:8:22:DA:C2'	7:8:23:DT:OP1	2.65	0.44
2:C:1087:TYR:CE1	2:C:1215:GLY:HA2	2.48	0.44
2:C:976:ARG:NH2	2:C:990:ASP:OD2	2.51	0.44
3:D:1175:LEU:O	3:D:1187:GLU:HA	2.18	0.44
3:D:885:VAL:CG1	3:D:1258:ARG:HB2	2.47	0.44
3:D:397:ALA:O	3:D:401:VAL:HG23	2.17	0.44
3:D:422:LEU:HD11	3:D:471:PRO:N	2.33	0.44
3:D:502:PRO:HB2	3:D:601:ILE:HD13	1.99	0.44
3:D:700:ASN:O	3:D:704:GLU:HB2	2.17	0.44
3:D:715:LYS:HG2	3:D:716:GLN:N	2.33	0.44
5:F:601:PRO:HA	5:F:608:ARG:HH21	1.83	0.44
1:G:58:GLU:HG2	1:G:172:LEU:HD12	1.98	0.44
1:H:31:LEU:CD1	1:H:201:LEU:HD22	2.48	0.44
2:I:1103:VAL:HG11	2:I:1112:ILE:HD11	1.99	0.44
2:I:303:ASP:HB2	2:I:310:ILE:HG13	1.99	0.44
2:I:724:VAL:CG1	2:I:727:VAL:HG22	2.48	0.44
2:I:851:THR:HG22	2:I:853:ASP:N	2.29	0.44
3:J:1101:LEU:HD13	3:J:1107:VAL:HG21	1.99	0.44
3:J:610:ARG:CZ	3:J:901:ARG:HH12	2.30	0.44
1:M:81:ILE:O	1:M:85:LEU:HG	2.18	0.44
2:O:725:GLN:C	2:O:773:LEU:HD11	2.38	0.44
2:O:889:PRO:O	2:O:914:LYS:CE	2.65	0.44
2:O:964:LEU:HG	2:O:964:LEU:O	2.18	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:97:VAL:O	3:P:100:GLU:HG2	2.18	0.44
3:P:116:PHE:CE2	3:P:237:MET:SD	3.11	0.44
3:P:806:ASP:OD1	3:P:1346:GLY:HA2	2.18	0.44
3:P:1356:LEU:HD13	3:P:1362:GLY:HA2	1.99	0.44
4:Q:53:GLU:HB3	4:Q:59:ILE:HG13	1.99	0.44
7:2:34:DG:H2"	7:2:35:DT:OP2	2.18	0.44
2:I:1273:MET:HG2	7:5:14:DC:H4'	2.00	0.44
7:5:20:DG:H5"	7:5:20:DG:H8	1.83	0.44
6:7:16:DG:H2"	6:7:17:DA:OP2	2.17	0.44
6:7:28:DA:C6	7:8:34:DG:C6	3.06	0.44
7:8:48:DA:H2"	7:8:49:DA:H5"	2.00	0.44
2:C:176:ILE:HD12	2:C:184:LEU:CB	2.47	0.44
2:C:506:PHE:O	2:C:512:SER:HB2	2.17	0.44
3:D:1149:ARG:HA	3:D:1150:PRO:HD2	1.85	0.44
3:D:1260:MET:HB3	3:D:1307:LEU:O	2.18	0.44
3:D:1218:HIS:CG	3:D:1306:LEU:HD23	2.53	0.44
3:D:281:ARG:HH12	5:F:441:ARG:NH2	2.15	0.44
3:D:363:LEU:HD12	3:D:363:LEU:O	2.18	0.44
3:D:519:ASN:C	3:D:523:GLU:HB2	2.38	0.44
3:D:589:TYR:C	3:D:591:ILE:N	2.70	0.44
3:D:925:GLU:HB3	3:D:926:PRO:HD3	1.99	0.44
1:G:79:LEU:HA	1:G:82:LEU:CD1	2.24	0.44
1:H:81:ILE:HD13	1:H:131:CYS:SG	2.58	0.44
1:H:99:ILE:HD11	1:H:145:LYS:HE3	1.99	0.44
2:I:158:ASP:OD1	2:I:158:ASP:N	2.49	0.44
2:I:346:TYR:OH	2:I:436:ARG:HG3	2.18	0.44
2:I:561:ILE:HD12	2:I:679:ALA:HB1	1.99	0.44
2:I:58:PRO:HB3	2:I:69:GLN:HG2	1.98	0.44
2:I:808:ASN:HA	3:J:629:PHE:HB3	2.00	0.44
3:J:109:SER:OG	3:J:296:LYS:HD3	2.17	0.44
3:J:318:GLY:N	3:J:322:ARG:O	2.51	0.44
5:L:406:GLN:O	5:L:409:ASN:HB2	2.18	0.44
5:L:452:ILE:HG21	5:L:456:MET:HB3	1.96	0.44
5:L:597:LYS:O	5:L:600:HIS:HB3	2.16	0.44
1:M:232:VAL:HG22	1:N:221:ALA:HB3	1.98	0.44
1:N:16:ILE:HG22	1:N:26:VAL:HG22	1.99	0.44
2:O:1073:LYS:HD2	3:P:462:ASP:HB2	1.99	0.44
2:O:816:ILE:HG13	2:O:1074:GLY:HA3	1.99	0.44
2:O:1180:MET:HG3	2:O:1181:PRO:HD2	2.00	0.44
2:O:1290:MET:O	2:O:1295:SER:OG	2.35	0.44
2:O:9:LYS:HG2	2:O:1171:ARG:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:838:ARG:HG3	3:P:1250:ASP:OD2	2.17	0.44
3:P:1272:SER:HB3	3:P:1273:ASP:H	1.52	0.44
3:P:352:ARG:HH21	3:P:465:GLN:HB2	1.82	0.44
6:1:47:DC:H2'	6:1:48:DA:C8	2.53	0.44
5:R:386:LEU:HD22	6:7:41:DT:N3	2.32	0.44
1:A:79:LEU:O	1:A:82:LEU:HB2	2.18	0.44
1:B:195:ARG:HB2	1:B:198:LEU:HD13	2.00	0.44
2:C:295:LYS:C	2:C:317:LEU:HG	2.36	0.44
2:C:952:GLN:OE1	2:C:1036:ILE:CG2	2.65	0.44
3:D:1164:SER:O	3:D:1175:LEU:HD12	2.17	0.44
3:D:1229:VAL:HG23	3:D:1233:ILE:HD11	1.92	0.44
3:D:1231:ARG:O	3:D:1234:VAL:HB	2.18	0.44
3:D:1286:LYS:HE2	3:D:1286:LYS:HB2	1.40	0.44
3:D:160:LEU:HA	3:D:164:GLN:OE1	2.18	0.44
3:D:357:VAL:HG22	3:D:461:PHE:CD2	2.53	0.44
3:D:635:SER:OG	3:D:636:GLY:N	2.50	0.44
3:D:650:LYS:O	3:D:654:ILE:HG13	2.18	0.44
3:D:750:PRO:O	3:D:781:LYS:HE3	2.18	0.44
3:D:882:VAL:O	3:D:882:VAL:HG22	2.18	0.44
5:F:87:VAL:CG1	5:F:103:ARG:HD3	2.48	0.44
5:F:412:LEU:HD12	5:F:412:LEU:HA	1.65	0.44
5:F:551:LEU:HD13	5:F:559:LEU:HD12	1.98	0.44
1:G:133:LEU:HD23	1:G:133:LEU:HA	1.54	0.44
1:G:181:GLU:HB3	1:G:206:GLU:HG2	2.00	0.44
2:I:149:LEU:CD2	2:I:451:ARG:HH21	2.31	0.44
2:I:865:LEU:HD22	2:I:869:GLY:C	2.38	0.44
3:J:105:ILE:HG13	3:J:244:VAL:CG2	2.48	0.44
3:J:1190:ILE:CD1	3:J:1196:LEU:HD21	2.47	0.44
3:J:131:PRO:O	3:J:135:ILE:HG13	2.18	0.44
3:J:591:ILE:HB	3:J:604:MET:HE3	1.99	0.44
3:J:69:GLU:HG3	3:J:70:CYS:O	2.18	0.44
5:L:373:ARG:HG2	5:L:377:LYS:HE3	2.00	0.44
1:M:232:VAL:HG13	1:N:218:ARG:HG2	1.99	0.44
1:N:92:VAL:HG11	1:N:98:VAL:HG11	2.00	0.44
2:O:1243:MET:HG3	3:P:372:MET:HE1	1.97	0.44
2:O:374:GLU:HB2	5:R:99:ARG:CZ	2.48	0.44
2:O:415:GLU:HG3	2:O:416:GLY:H	1.81	0.44
2:O:615:VAL:HA	2:O:638:SER:HB2	1.99	0.44
2:O:896:THR:OG1	2:O:897:PRO:HD2	2.18	0.44
2:O:1284:ALA:CB	3:P:1356:LEU:CD2	2.85	0.44
3:P:536:LEU:CD2	3:P:541:LEU:HB2	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:78:LEU:O	3:P:81:ARG:HG3	2.18	0.44
3:P:932:MET:HE2	3:P:932:MET:HB2	1.58	0.44
5:R:165:PHE:HB3	5:R:166:VAL:H	1.68	0.44
5:R:135:ALA:CB	5:R:253:SER:HA	2.47	0.44
1:A:29:GLU:HB2	1:A:30:PRO:CA	2.46	0.43
1:B:57:THR:HG23	1:B:158:ARG:HH22	1.83	0.43
2:C:1058:ARG:NH1	2:C:1238:LEU:HD12	2.23	0.43
2:C:217:THR:HG23	2:C:351:LEU:CD2	2.48	0.43
2:C:714:VAL:CG1	2:C:787:PRO:CD	2.95	0.43
2:C:10:ARG:NH2	2:C:791:LEU:HB3	2.32	0.43
2:C:808:ASN:N	2:C:808:ASN:HD22	2.14	0.43
2:C:825:GLU:O	2:C:826:ASP:HB2	2.16	0.43
3:D:1226:VAL:C	3:D:1229:VAL:HG12	2.37	0.43
3:D:923:ILE:HD11	3:D:1252:HIS:CB	2.48	0.43
3:D:320:ASN:O	3:D:321:LYS:HB2	2.18	0.43
3:D:435:GLN:HE22	3:D:486:SER:HA	1.83	0.43
3:D:625:MET:CG	3:D:629:PHE:CE2	3.00	0.43
3:D:899:TYR:CD1	3:D:915:ILE:HG21	2.53	0.43
5:F:524:GLU:HG2	5:F:524:GLU:H	1.51	0.43
1:G:16:ILE:HD13	1:G:214:GLU:OE2	2.18	0.43
2:I:34:SER:OG	2:I:457:GLY:N	2.41	0.43
2:I:557:ARG:HD3	2:I:587:LEU:HB3	1.99	0.43
3:J:205:LEU:HD22	3:J:214:ARG:HG3	1.99	0.43
3:J:376:LEU:HB2	3:J:377:PHE:HD2	1.82	0.43
3:J:574:VAL:H	3:J:574:VAL:HG23	1.53	0.43
5:L:437:GLN:NE2	5:L:441:ARG:HB3	2.32	0.43
5:L:456:MET:O	5:L:459:THR:OG1	2.30	0.43
5:L:465:ARG:NH1	7:5:27:DA:H5'	2.33	0.43
1:M:41:ASN:ND2	2:O:1218:GLY:CA	2.81	0.43
2:O:239:MET:O	2:O:284:LEU:HA	2.17	0.43
2:O:825:GLU:CB	2:O:827:ARG:HG3	2.48	0.43
2:O:836:LEU:HA	2:O:836:LEU:HD23	1.67	0.43
2:O:82:VAL:HG23	2:O:83:GLN:N	2.33	0.43
2:O:936:ARG:HG2	2:O:937:ASP:N	2.28	0.43
3:P:120:LEU:CD2	3:P:121:PRO:HA	2.48	0.43
3:P:271:ARG:NH1	3:P:316:ILE:HG23	2.28	0.43
3:P:552:ILE:HG13	3:P:570:LYS:HB2	2.00	0.43
4:Q:27:ALA:CB	4:Q:46:THR:HB	2.45	0.43
5:R:323:ASN:HB3	5:R:324:LYS:H	1.59	0.43
5:R:110:LEU:CD2	5:R:385:ARG:HD2	2.44	0.43
1:A:12:ARG:O	1:A:28:LEU:HD13	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:203:ILE:CG2	1:A:205:MET:CE	2.95	0.43
1:A:35:PHE:N	1:A:35:PHE:CD2	2.87	0.43
1:B:166:ARG:HG3	1:B:166:ARG:HH11	1.83	0.43
2:C:1245:ALA:HB1	3:D:375:GLU:HB2	2.00	0.43
2:C:188:PHE:HE2	2:C:436:ARG:HB2	1.83	0.43
3:D:107:LEU:HG	3:D:107:LEU:H	1.65	0.43
2:C:1309:VAL:CG1	3:D:383:GLY:HA2	2.48	0.43
3:D:513:MET:SD	3:D:579:LEU:HD11	2.57	0.43
3:D:62:PHE:CD1	3:D:247:PRO:HD3	2.53	0.43
3:D:725:MET:HE2	3:D:725:MET:HB2	1.53	0.43
3:D:915:ILE:H	3:D:915:ILE:HG13	1.53	0.43
5:F:586:ARG:O	5:F:590:ILE:HG13	2.18	0.43
2:I:246:LEU:HA	2:I:246:LEU:HD23	1.77	0.43
2:I:432:LEU:HD12	2:I:432:LEU:O	2.18	0.43
3:J:1165:PHE:CZ	3:J:1196:LEU:HD12	2.53	0.43
3:J:1346:GLY:H	3:J:1349:GLU:CD	2.21	0.43
3:J:344:GLY:C	3:J:345:LYS:HG2	2.38	0.43
3:J:452:LEU:HD23	3:J:452:LEU:HA	1.70	0.43
3:J:592:VAL:CG2	3:J:592:VAL:O	2.66	0.43
2:I:560:PRO:CB	3:J:776:THR:HG21	2.41	0.43
2:I:550:VAL:HG13	3:J:780:ARG:CZ	2.47	0.43
3:J:801:VAL:HG23	3:J:920:ALA:HB1	1.99	0.43
3:J:967:VAL:CG2	3:J:973:LEU:HD12	2.46	0.43
3:J:94:GLN:O	3:J:97:VAL:HG23	2.18	0.43
5:L:428:SER:O	5:L:432:THR:OG1	2.29	0.43
1:M:166:ARG:HH12	1:M:172:LEU:HD22	1.82	0.43
1:N:86:LYS:HG2	1:N:173:VAL:CG1	2.48	0.43
2:O:818:VAL:HG22	2:O:1078:LYS:O	2.18	0.43
2:O:634:VAL:CG1	2:O:635:THR:H	2.23	0.43
3:P:255:LEU:HG	3:P:255:LEU:H	1.14	0.43
3:P:265:LEU:O	3:P:269:TYR:HD2	2.01	0.43
3:P:346:ARG:HB3	3:P:346:ARG:HH11	1.83	0.43
3:P:511:TYR:HD1	3:P:596:LEU:O	2.00	0.43
4:Q:80:LEU:O	4:Q:84:THR:HG23	2.18	0.43
5:R:87:VAL:CG1	5:R:103:ARG:HD3	2.48	0.43
5:R:530:LEU:HB2	5:R:533:ASP:OD2	2.19	0.43
5:R:540:LEU:HG	5:R:541:ARG:N	2.34	0.43
2:C:197:ARG:NH2	2:C:203:LYS:HG2	2.33	0.43
2:C:257:ALA:CB	2:C:277:LEU:HD11	2.34	0.43
1:A:66:HIS:CB	2:C:927:THR:HG21	2.47	0.43
2:C:976:ARG:O	2:C:980:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1051:ASP:O	3:D:1055:GLY:HA2	2.19	0.43
3:D:623:GLN:O	3:D:627:THR:OG1	2.35	0.43
5:F:585:GLU:HG3	7:2:47:DC:H5	1.83	0.43
1:G:115:ILE:HD13	1:G:123:ILE:HG12	2.00	0.43
2:I:937:ASP:HA	2:I:1039:GLY:HA3	1.99	0.43
2:I:1255:THR:HG21	2:I:1257:GLN:HB2	2.00	0.43
2:I:211:ARG:O	2:I:359:ARG:HA	2.18	0.43
2:I:228:VAL:HG13	2:I:245:ARG:HH12	1.83	0.43
2:I:297:VAL:C	2:I:336:LEU:HD11	2.39	0.43
3:J:111:THR:HG1	3:J:300:GLN:CD	2.20	0.43
3:J:501:VAL:HG22	3:J:605:LEU:HD13	1.99	0.43
5:L:511:ILE:HG13	5:L:517:SER:HB2	2.00	0.43
1:M:13:LEU:HA	1:M:28:LEU:CD2	2.43	0.43
1:M:58:GLU:HG2	1:M:172:LEU:HD12	2.00	0.43
1:N:83:LEU:N	1:N:83:LEU:HD22	2.33	0.43
2:O:1021:LEU:HD23	2:O:1024:GLU:OE1	2.18	0.43
2:O:1125:GLY:HA3	2:O:1179:GLY:HA2	1.99	0.43
2:O:1114:GLU:OE1	2:O:1230:MET:HG3	2.18	0.43
2:O:796:LEU:C	2:O:1233:LEU:HD11	2.38	0.43
2:O:1307:ASN:ND2	2:O:1312:ASN:HD22	2.16	0.43
2:O:24:VAL:HA	2:O:578:TYR:CE1	2.53	0.43
2:O:53:PHE:CD2	2:O:70:TYR:CE1	3.06	0.43
2:O:569:ILE:HG21	3:P:784:ALA:HA	1.98	0.43
3:P:249:LEU:C	3:P:251:PRO:HD3	2.38	0.43
3:P:562:GLU:H	3:P:562:GLU:HG3	1.61	0.43
3:P:673:VAL:CG1	3:P:674:THR:O	2.65	0.43
3:P:70:CYS:SG	3:P:88:CYS:SG	3.16	0.43
5:R:333:VAL:HG22	5:R:336:GLU:HB2	1.99	0.43
6:7:34:DG:C2	7:8:30:DA:C2	3.06	0.43
2:C:104:ILE:CG2	2:C:115:LYS:HD3	2.48	0.43
2:C:1268:GLN:HE22	3:D:351:GLY:C	2.17	0.43
2:C:208:ILE:O	2:C:211:ARG:HB2	2.18	0.43
2:C:277:LEU:CD1	2:C:282:VAL:HG21	2.47	0.43
2:C:494:ASN:ND2	2:C:496:LYS:HB2	2.33	0.43
2:C:559:CYS:CB	2:C:662:SER:HB3	2.47	0.43
2:C:742:TYR:HA	2:C:743:PRO:HD3	1.91	0.43
3:D:1037:PHE:CE2	3:D:1059:LEU:HD13	2.52	0.43
3:D:1261:LEU:HD23	3:D:1261:LEU:HA	1.36	0.43
3:D:141:PHE:CE1	3:D:181:GLY:HA3	2.54	0.43
3:D:954:ASN:HB2	3:D:992:LYS:HZ3	1.83	0.43
5:F:507:MET:HB2	5:F:507:MET:HE2	1.66	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:192:VAL:HG12	1:G:193:GLU:H	1.83	0.43
1:H:60:GLU:CD	1:H:143:ARG:HH21	2.22	0.43
2:I:1085:MET:HA	2:I:1085:MET:HE2	1.99	0.43
2:I:678:ARG:HG3	2:I:1108:ASN:ND2	2.33	0.43
2:I:167:SER:HA	3:J:1064:SER:CB	2.44	0.43
2:I:189:ASP:CG	2:I:190:PRO:HD2	2.38	0.43
2:I:941:LYS:H	2:I:941:LYS:HG2	1.66	0.43
3:J:104:HIS:O	3:J:105:ILE:HG13	2.19	0.43
3:J:135:ILE:O	3:J:139:LEU:CD1	2.65	0.43
3:J:825:VAL:CG2	3:J:838:ARG:HH11	2.14	0.43
3:J:849:LEU:HB3	3:J:850:LYS:H	1.62	0.43
3:J:85:CYS:CB	3:J:88:CYS:SG	3.06	0.43
5:L:354:THR:O	5:L:358:VAL:HG23	2.17	0.43
5:L:84:LEU:HD21	5:L:107:THR:CG2	2.48	0.43
1:M:89:ALA:HB1	1:M:124:VAL:HB	2.01	0.43
1:M:31:LEU:HD13	1:M:36:GLY:HA2	2.00	0.43
1:M:8:PHE:CE1	1:N:223:ILE:CG2	2.99	0.43
1:N:102:LEU:HB2	1:N:115:ILE:CD1	2.48	0.43
1:N:140:ILE:HD12	1:N:140:ILE:HA	1.80	0.43
2:O:1166:ASP:OD1	2:O:1166:ASP:N	2.48	0.43
2:O:447:HIS:CD2	2:O:449:GLY:H	2.37	0.43
2:O:725:GLN:HB3	2:O:733:VAL:CG2	2.49	0.43
2:O:802:VAL:HG13	2:O:803:ALA:N	2.32	0.43
3:P:1224:ARG:HD3	3:P:1228:ALA:CB	2.48	0.43
5:R:370:ALA:CB	5:R:373:ARG:NH2	2.80	0.43
6:1:53:DG:H2"	6:1:54:DA:OP2	2.19	0.43
1:B:48:LEU:CD2	1:B:183:ILE:HG21	2.41	0.43
2:C:1048:LYS:HG2	2:C:1049:ILE:H	1.82	0.43
2:C:1112:ILE:O	2:C:1116:HIS:HD2	2.01	0.43
2:C:1199:LEU:O	2:C:1204:LEU:HB2	2.19	0.43
2:C:1235:LEU:HG	2:C:1235:LEU:H	1.57	0.43
2:C:208:ILE:CD1	2:C:356:THR:OG1	2.66	0.43
2:C:279:LYS:HE3	2:I:79:VAL:HG21	2.01	0.43
2:C:881:ASP:O	2:C:920:VAL:HG23	2.19	0.43
3:D:1138:LEU:CD2	3:D:1139:PRO:HG3	2.40	0.43
3:D:264:ASP:CG	5:F:508:GLU:HB2	2.38	0.43
3:D:475:GLU:O	3:D:479:GLU:HG2	2.18	0.43
3:D:733:SER:H	3:D:736:GLN:HG2	1.83	0.43
4:E:35:LYS:HA	4:E:35:LYS:HD3	1.73	0.43
5:F:121:LYS:HG2	5:F:421:TYR:CZ	2.53	0.43
2:I:1028:LYS:O	2:I:1031:ALA:HB3	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1049:ILE:HG22	2:I:1050:VAL:N	2.33	0.43
2:I:253:PHE:CE1	2:I:255:ILE:HG13	2.54	0.43
2:I:267:ARG:HD3	2:I:268:ARG:N	2.33	0.43
2:I:755:LYS:NZ	2:I:767:GLN:O	2.45	0.43
2:I:758:ARG:HB2	2:I:833:ILE:CG2	2.48	0.43
3:J:116:PHE:O	3:J:124:ILE:HG13	2.18	0.43
3:J:322:ARG:HD3	5:L:510:PRO:HD3	1.99	0.43
3:J:368:LEU:HA	3:J:368:LEU:HD12	1.69	0.43
3:J:705:THR:O	3:J:705:THR:HG22	2.18	0.43
5:L:138:PRO:HG2	5:L:139:GLU:H	1.82	0.43
5:L:348:GLU:OE2	5:L:355:ILE:HD11	2.19	0.43
5:L:383:ASN:ND2	6:4:41:DT:N3	2.66	0.43
3:J:291:ILE:CG2	5:L:409:ASN:HD22	2.32	0.43
5:L:412:LEU:HD13	5:L:435:ILE:CG1	2.48	0.43
5:L:412:LEU:HD22	5:L:435:ILE:CD1	2.45	0.43
5:L:465:ARG:HH12	7:5:27:DA:H5'	1.84	0.43
5:L:564:GLY:O	5:L:567:MET:O	2.37	0.43
2:O:1124:ILE:O	2:O:1128:ILE:HG13	2.19	0.43
2:O:1180:MET:HA	2:O:1181:PRO:HD3	1.86	0.43
2:O:684:ASN:O	2:O:687:ARG:HB2	2.19	0.43
3:P:973:LEU:HD22	3:P:1006:GLY:HA2	1.99	0.43
3:P:931:THR:HG23	3:P:1134:ILE:HG21	2.01	0.43
3:P:316:ILE:CG2	3:P:324:LEU:HD12	2.49	0.43
3:P:527:LEU:HD12	3:P:533:ALA:HA	2.01	0.43
3:P:53:ARG:HB3	3:P:54:ASP:H	1.58	0.43
3:P:831:VAL:O	3:P:831:VAL:HG12	2.19	0.43
3:P:614:LEU:CD2	4:Q:5:THR:HG21	2.48	0.43
5:R:393:LYS:HD3	5:R:393:LYS:HA	1.78	0.43
5:R:423:ARG:H	5:R:423:ARG:HG2	1.59	0.43
5:R:506:SER:O	5:R:509:THR:OG1	2.24	0.43
2:O:905:ILE:HA	5:R:595:LEU:HD22	2.00	0.43
5:R:595:LEU:O	5:R:599:ARG:HG3	2.17	0.43
6:1:45:DT:H2'	6:1:46:DG:O4'	2.18	0.43
3:P:464:ASP:CG	8:9:15:G:HO2'	2.09	0.43
2:C:960:LEU:HD22	2:C:1028:LYS:HD3	2.00	0.43
2:C:1190:ALA:HA	2:C:1194:GLU:OE1	2.18	0.43
2:C:99:LYS:HG2	2:C:121:GLU:HG2	2.01	0.43
2:C:1277:ALA:O	2:C:1280:ALA:HB3	2.18	0.43
3:D:825:VAL:CB	3:D:1242:ARG:HH12	2.32	0.43
3:D:1346:GLY:HA3	3:D:1349:GLU:HG3	2.00	0.43
3:D:786:THR:HA	3:D:935:PHE:HD2	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:F:446:GLN:O	5:F:448:ARG:N	2.51	0.43
2:I:455:SER:HB2	2:I:456:VAL:H	1.68	0.43
2:I:68:LEU:HD12	2:I:68:LEU:HA	1.52	0.43
2:I:805:MET:HE3	2:I:805:MET:HB2	1.95	0.43
3:J:1175:LEU:HD22	3:J:1196:LEU:HD13	1.99	0.43
3:J:332:LYS:HG3	3:J:1328:THR:OG1	2.19	0.43
3:J:185:ILE:O	3:J:189:LEU:CG	2.66	0.43
5:L:385:ARG:O	5:L:388:ILE:HG23	2.18	0.43
5:L:494:ILE:HG22	5:L:495:ARG:N	2.33	0.43
5:L:551:LEU:HD13	5:L:556:ALA:HA	2.00	0.43
5:L:91:ILE:HG12	5:L:94:THR:OG1	2.18	0.43
1:N:156:SER:CA	1:N:159:ILE:HG22	2.48	0.43
2:O:1272:GLU:O	2:O:1276:TRP:CD1	2.72	0.43
2:O:1298:VAL:HG22	2:O:1301:ARG:HH21	1.84	0.43
2:O:682:GLY:O	2:O:686:GLN:HG3	2.18	0.43
3:P:664:ILE:HD12	3:P:685:ILE:HD12	2.01	0.43
6:1:36:DT:H2"	6:1:37:DA:H5"	2.01	0.43
7:2:18:DT:H2'	7:2:19:DA:O5'	2.19	0.43
6:4:44:DG:H2"	6:4:45:DT:H4'	2.00	0.43
1:B:162:GLU:OE2	1:B:164:ASP:HB3	2.19	0.43
1:A:235:ARG:C	1:B:218:ARG:NE	2.72	0.43
2:C:291:TYR:CZ	2:C:295:LYS:HE3	2.54	0.43
2:C:297:VAL:HG23	2:C:314:ASN:N	2.32	0.43
2:C:448:LEU:CG	2:C:553:THR:CB	2.92	0.43
3:D:162:GLU:OE1	3:D:163:GLU:OE2	2.37	0.43
2:I:1031:ALA:O	2:I:1032:LYS:C	2.57	0.43
2:I:1164:PHE:HD2	2:I:1164:PHE:H	1.66	0.43
2:I:120:GLN:OE1	2:I:490:GLN:HB3	2.18	0.43
2:I:1335:ILE:CG2	3:J:22:ILE:CG2	2.97	0.43
2:I:319:LEU:H	2:I:319:LEU:HG	1.16	0.43
2:I:873:ILE:H	2:I:873:ILE:HG13	1.36	0.43
2:I:9:LYS:O	2:I:1172:LEU:HD13	2.19	0.43
3:J:1029:THR:HG23	3:J:1121:LEU:CG	2.49	0.43
3:J:1165:PHE:CG	3:J:1175:LEU:HD13	2.52	0.43
3:J:1253:ILE:H	3:J:1253:ILE:HG13	1.53	0.43
3:J:1286:LYS:O	3:J:1289:ASN:HB2	2.18	0.43
3:J:1218:HIS:CE1	3:J:1306:LEU:HD23	2.53	0.43
4:K:50:ALA:O	4:K:54:ILE:HG13	2.18	0.43
2:O:204:LEU:HB3	2:O:205:PRO:HD2	2.01	0.43
2:O:227:LYS:HE2	2:O:334:GLU:OE1	2.19	0.43
3:P:115:TRP:HE3	3:P:1333:THR:HG23	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1328:THR:HG22	3:P:1332:LEU:HD12	2.01	0.43
3:P:339:ARG:NH1	3:P:798:ARG:HH22	2.15	0.43
3:P:362:ARG:HH12	4:Q:4:VAL:HG13	1.83	0.43
3:P:432:LEU:HD12	3:P:499:ILE:HD13	1.99	0.43
3:P:531:LYS:H	3:P:531:LYS:HG3	1.41	0.43
3:P:645:VAL:HB	3:P:700:ASN:HD22	1.83	0.43
3:P:85:CYS:CB	3:P:88:CYS:SG	3.06	0.43
5:R:551:LEU:HA	5:R:597:LYS:HZ1	1.83	0.43
6:1:52:DT:H2"	6:1:53:DG:N7	2.34	0.43
2:I:183:TRP:CH2	6:4:47:DC:N4	2.87	0.43
6:4:53:DG:C2'	6:4:54:DA:OP2	2.61	0.43
2:C:1098:LEU:HD23	2:C:1098:LEU:HA	1.66	0.43
2:C:130:MET:SD	2:C:134:GLY:HA2	2.59	0.43
2:C:366:ILE:HG22	2:C:384:LEU:CD2	2.49	0.43
2:C:9:LYS:O	2:C:10:ARG:HB2	2.18	0.43
3:D:1029:THR:HG22	3:D:1099:TYR:CE1	2.54	0.43
3:D:1264:ALA:CB	3:D:1304:ARG:HA	2.48	0.43
3:D:111:THR:CG2	3:D:300:GLN:OE1	2.66	0.43
3:D:470:VAL:O	3:D:472:LEU:HG	2.19	0.43
3:D:70:CYS:HB2	3:D:90:VAL:CG1	2.49	0.43
3:D:835:LEU:HG	3:D:836:ARG:H	1.72	0.43
3:D:888:CYS:SG	3:D:890:THR:N	2.89	0.43
3:D:843:VAL:HB	3:D:897:HIS:O	2.19	0.43
5:F:109:GLU:H	5:F:109:GLU:HG3	1.68	0.43
5:F:406:GLN:HA	5:F:406:GLN:OE1	2.18	0.43
1:G:30:PRO:HB3	1:G:198:LEU:HD13	2.01	0.43
1:G:86:LYS:CG	1:G:173:VAL:CG1	2.96	0.43
2:I:563:THR:CG2	2:I:680:LEU:HD11	2.48	0.43
2:I:850:ILE:HG23	2:I:885:GLY:O	2.18	0.43
3:J:1184:ASP:N	3:J:1184:ASP:OD1	2.50	0.43
3:J:355:ILE:O	3:J:355:ILE:CG1	2.60	0.43
5:L:387:VAL:CG2	5:L:412:LEU:HD23	2.48	0.43
1:M:149:GLY:HA3	1:M:177:TYR:CE2	2.54	0.43
1:N:54:CYS:SG	1:N:148:ARG:CA	3.06	0.43
2:O:811:ASN:O	2:O:1099:ASN:HB2	2.19	0.43
2:O:1201:LEU:HA	2:O:1201:LEU:HD12	1.50	0.43
2:O:1307:ASN:HB3	2:O:1312:ASN:CB	2.45	0.43
2:O:136:PHE:HB3	2:O:138:ILE:HD11	2.01	0.43
2:O:144:VAL:HG23	2:O:515:MET:SD	2.59	0.43
3:P:1229:VAL:CG1	3:P:1230:THR:N	2.82	0.43
3:P:79:LYS:C	3:P:79:LYS:HD3	2.39	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:430:TYR:CZ	5:R:434:TRP:NE1	2.79	0.43
2:C:1088:ASP:CG	2:C:1092:THR:O	2.58	0.43
2:C:153:PRO:HG2	2:C:401:GLY:HA2	2.01	0.43
2:C:425:ILE:O	2:C:428:VAL:HG23	2.19	0.43
2:C:591:TYR:HA	2:C:655:VAL:HG23	2.01	0.43
2:C:714:VAL:O	2:C:767:GLN:NE2	2.52	0.43
2:C:941:LYS:HB3	2:C:945:ALA:HB3	1.99	0.43
3:D:1179:PRO:CG	3:D:1182:GLY:O	2.67	0.43
3:D:238:ILE:CG2	3:D:239:LEU:N	2.75	0.43
3:D:245:LEU:CD2	3:D:249:LEU:HB2	2.49	0.43
3:D:424:ASN:N	3:D:466:MET:HE2	2.33	0.43
3:D:487:THR:O	3:D:490:ILE:HD11	2.19	0.43
3:D:579:LEU:O	3:D:583:VAL:HG23	2.19	0.43
3:D:836:ARG:O	3:D:840:LEU:HB2	2.19	0.43
5:F:576:VAL:O	5:F:580:PHE:HB2	2.19	0.43
1:H:65:LEU:HA	1:H:169:GLY:HA2	1.99	0.43
2:I:1151:LEU:HD12	2:I:1151:LEU:HA	1.87	0.43
2:I:1255:THR:CG2	2:I:1257:GLN:HB2	2.49	0.43
2:I:805:MET:HE3	3:J:636:GLY:HA2	2.01	0.43
3:J:1155:ILE:H	3:J:1211:SER:HB2	1.84	0.43
3:J:179:LYS:HG2	3:J:180:MET:N	2.34	0.43
3:J:433:GLY:O	3:J:457:TYR:HE1	2.02	0.43
3:J:450:HIS:HA	3:J:451:PRO:HD3	1.86	0.43
3:J:502:PRO:HG2	3:J:601:ILE:HD13	1.99	0.43
3:J:767:LEU:HD23	3:J:767:LEU:N	2.33	0.43
3:J:828:GLY:O	3:J:994:SER:O	2.36	0.43
5:L:493:LYS:HD2	5:L:493:LYS:HA	1.46	0.43
2:O:1296:ASP:O	2:O:1321:GLU:HG2	2.19	0.43
2:O:530:ILE:HG13	2:O:573:ASN:O	2.17	0.43
3:P:1141:VAL:HG13	3:P:1145:PHE:HE2	1.82	0.43
3:P:378:LYS:HA	3:P:381:ILE:HD12	2.01	0.43
3:P:536:LEU:CD2	3:P:541:LEU:HB3	2.48	0.43
5:R:324:LYS:HB3	5:R:325:PRO:HD2	2.01	0.43
5:R:130:VAL:HG13	5:R:365:MET:SD	2.59	0.43
2:O:901:LEU:HD13	5:R:563:PHE:CD2	2.53	0.43
5:L:426:LYS:HG2	6:4:39:DA:H3'	2.01	0.43
2:C:492:MET:HB2	2:C:492:MET:HE2	1.78	0.43
2:C:718:ALA:HB2	2:C:783:LEU:CD2	2.41	0.43
2:C:839:VAL:O	2:C:886:LYS:CE	2.67	0.43
2:C:941:LYS:HB3	2:C:945:ALA:CB	2.49	0.43
3:D:1224:ARG:HB3	3:D:1228:ALA:HB3	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:156:ARG:HH22	3:D:192:MET:HA	1.83	0.43
3:D:470:VAL:CB	3:D:472:LEU:HD23	2.47	0.43
3:D:537:TYR:CD2	3:D:544:LEU:HD21	2.54	0.43
3:D:64:PRO:O	3:D:95:THR:HG23	2.19	0.43
5:F:324:LYS:HA	5:F:325:PRO:HD3	1.75	0.43
5:F:551:LEU:CD2	5:F:597:LYS:CD	2.73	0.43
5:F:597:LYS:O	5:F:600:HIS:CB	2.67	0.43
1:H:136:GLU:HG2	1:H:136:GLU:H	1.70	0.43
2:I:1054:LEU:HD22	2:I:1055:ALA:C	2.39	0.43
2:I:1116:HIS:CD2	3:J:641:ILE:HD11	2.53	0.43
2:I:1156:ARG:O	2:I:1158:LYS:N	2.52	0.43
2:I:269:ILE:HD13	2:I:269:ILE:HA	1.87	0.43
2:I:975:ILE:HD11	2:I:1014:LEU:HB3	2.00	0.43
3:J:1267:VAL:HB	3:J:1301:THR:HB	2.01	0.43
3:J:363:LEU:CD2	3:J:487:THR:HG22	2.49	0.43
3:J:40:LYS:NZ	3:J:53:ARG:NH2	2.66	0.43
3:J:514:THR:CB	3:J:596:LEU:H	2.32	0.43
3:J:501:VAL:HG22	3:J:605:LEU:CD1	2.49	0.43
4:K:39:VAL:HA	4:K:40:PRO:HD3	1.89	0.43
5:L:262:VAL:HA	5:L:263:PRO:HD3	1.91	0.43
5:L:412:LEU:HD12	5:L:412:LEU:HA	1.38	0.43
5:L:399:LEU:HD21	5:L:447:ALA:HA	2.01	0.43
2:O:1288:GLN:HB3	2:O:1315:MET:HE1	2.00	0.43
2:O:297:VAL:HG21	2:O:311:CYS:HB2	2.01	0.43
2:O:771:VAL:HG21	2:O:783:LEU:HD22	2.01	0.43
2:O:785:ASP:HB3	2:O:789:THR:O	2.18	0.43
2:O:992:LEU:CD2	2:O:993:PRO:HD2	2.49	0.43
3:P:1233:ILE:HD13	3:P:1257:VAL:HG22	2.01	0.43
3:P:246:PRO:HA	3:P:247:PRO:HD3	1.79	0.43
3:P:268:LEU:HD21	3:P:324:LEU:CD1	2.49	0.43
3:P:58:CYS:O	3:P:62:PHE:HD2	2.02	0.43
5:R:320:ILE:HD11	5:R:330:LEU:CD1	2.49	0.43
5:R:428:SER:O	5:R:432:THR:OG1	2.32	0.43
3:P:335:GLN:NE2	5:R:518:HIS:NE2	2.67	0.43
6:7:24:DC:H2"	6:7:25:DC:OP2	2.19	0.42
2:C:1283:ALA:HB1	2:C:1286:THR:OG1	2.18	0.42
2:C:452:ARG:C	2:C:453:ILE:HD13	2.39	0.42
2:C:468:LEU:HA	2:C:468:LEU:HD23	1.88	0.42
2:C:969:ALA:O	2:C:973:SER:OG	2.29	0.42
3:D:1039:ASP:OD1	3:D:1039:ASP:N	2.51	0.42
3:D:1350:ASN:CA	3:D:1353:VAL:HG22	2.40	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:185:ILE:N	3:D:185:ILE:CD1	2.37	0.42
3:D:371:LYS:HB2	3:D:371:LYS:HE3	1.64	0.42
2:C:1243:MET:HG3	3:D:372:MET:CE	2.49	0.42
3:D:381:ILE:HG13	3:D:381:ILE:H	1.71	0.42
2:C:1281:TYR:CZ	3:D:431:ARG:O	2.72	0.42
1:G:232:VAL:HG23	1:H:221:ALA:HB1	2.01	0.42
1:G:38:THR:CG2	1:H:42:ALA:CA	2.91	0.42
2:I:110:PRO:HB2	2:I:111:GLU:H	1.61	0.42
2:I:193:ASN:OD1	2:I:349:GLU:HB3	2.19	0.42
2:I:289:VAL:HG13	2:I:322:LEU:HD13	2.01	0.42
2:I:349:GLU:OE1	2:I:349:GLU:HA	2.18	0.42
3:J:1115:ILE:HD13	3:J:1121:LEU:CD2	2.49	0.42
3:J:1347:LEU:O	3:J:1351:VAL:HG23	2.19	0.42
3:J:774:ILE:HG13	3:J:774:ILE:H	1.60	0.42
5:L:298:PRO:HD2	5:L:326:TRP:HH2	1.84	0.42
1:M:98:VAL:HG21	1:M:121:VAL:HG21	2.01	0.42
1:M:31:LEU:HD23	1:M:31:LEU:HA	1.93	0.42
1:M:35:PHE:O	1:M:39:LEU:HD11	2.17	0.42
1:N:84:ASN:O	1:N:88:LEU:CD1	2.59	0.42
2:O:519:ASN:ND2	2:O:521:LEU:HB3	2.33	0.42
3:P:1132:LYS:O	3:P:1133:ASP:HB2	2.18	0.42
2:O:1289:GLU:OE2	3:P:473:THR:HG23	2.18	0.42
3:P:614:LEU:HG	4:Q:5:THR:HG21	2.01	0.42
4:Q:30:MET:HE1	4:Q:49:ILE:HD12	2.01	0.42
5:R:458:GLU:HA	5:R:461:ASN:ND2	2.34	0.42
5:L:437:GLN:HG2	6:4:35:DC:N4	2.34	0.42
6:7:51:DC:OP2	6:7:52:DT:H71	2.18	0.42
1:A:11:PRO:HG3	1:B:227:GLN:HB3	2.01	0.42
1:A:228:LEU:O	1:A:232:VAL:HG23	2.20	0.42
1:A:28:LEU:HD11	1:B:231:PHE:HZ	1.83	0.42
1:B:76:GLU:HG2	1:B:80:GLU:OE2	2.18	0.42
2:C:257:ALA:O	2:C:259:GLY:N	2.52	0.42
2:C:563:THR:O	2:C:680:LEU:HD11	2.19	0.42
2:C:767:GLN:HG2	2:C:786:GLY:HA2	2.01	0.42
3:D:1090:ILE:HG23	3:D:1091:PRO:CD	2.47	0.42
3:D:1100:PHE:CE1	3:D:1192:LYS:HE2	2.54	0.42
3:D:1154:ALA:HA	3:D:1211:SER:HB2	2.00	0.42
3:D:320:ASN:O	3:D:321:LYS:CB	2.67	0.42
3:D:508:LEU:HD12	3:D:508:LEU:O	2.19	0.42
3:D:510:LEU:HD23	3:D:510:LEU:HA	1.66	0.42
1:G:51:MET:HA	1:G:52:PRO:HD2	1.83	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:59:VAL:HG22	1:H:144:ILE:HG23	2.01	0.42
2:I:1103:VAL:HG22	2:I:1111:GLN:NE2	2.34	0.42
2:I:660:VAL:HB	2:I:1187:PHE:HE2	1.83	0.42
2:I:194:LEU:HD12	2:I:195:PHE:H	1.83	0.42
2:I:531:SER:OG	2:I:532:ALA:N	2.53	0.42
2:I:775:GLU:HA	2:I:776:PRO:HD3	1.85	0.42
2:I:819:SER:OG	2:I:821:ARG:HB2	2.18	0.42
3:J:322:ARG:HA	3:J:323:PRO:HD2	1.65	0.42
2:I:1281:TYR:CZ	3:J:431:ARG:HB2	2.55	0.42
3:J:531:LYS:H	3:J:531:LYS:HG3	1.45	0.42
3:J:580:TRP:HA	3:J:583:VAL:CG2	2.48	0.42
3:J:849:LEU:HD21	3:J:857:LEU:HD23	2.01	0.42
3:J:950:ILE:HG23	3:J:995:TYR:CE2	2.54	0.42
5:L:333:VAL:HG22	5:L:336:GLU:HB2	2.02	0.42
5:L:437:GLN:HG2	6:4:35:DC:H41	1.84	0.42
1:M:142:MET:SD	1:M:144:ILE:HD11	2.59	0.42
1:M:230:ALA:HB2	1:N:11:PRO:HG2	2.01	0.42
1:N:187:VAL:CG1	1:N:201:LEU:CD1	2.97	0.42
1:N:29:GLU:HA	1:N:30:PRO:HA	1.77	0.42
1:N:29:GLU:HB3	1:N:200:LYS:HG2	2.00	0.42
1:N:47:LEU:CD1	1:N:183:ILE:CD1	2.89	0.42
2:O:189:ASP:HB2	2:O:195:PHE:HD2	1.82	0.42
2:O:374:GLU:CD	5:R:99:ARG:CD	2.87	0.42
2:O:563:THR:HB	2:O:572:ILE:O	2.19	0.42
2:O:676:ALA:HA	2:O:679:ALA:HB3	2.01	0.42
3:P:1162:ILE:H	3:P:1162:ILE:HG13	1.69	0.42
3:P:1154:ALA:HB1	3:P:1211:SER:O	2.19	0.42
3:P:337:ARG:HA	3:P:341:ASN:ND2	2.34	0.42
3:P:518:VAL:HG12	3:P:519:ASN:CG	2.39	0.42
3:P:544:LEU:HD22	3:P:578:ILE:HD11	2.01	0.42
3:P:85:CYS:HB3	3:P:88:CYS:SG	2.59	0.42
7:5:13:DA:H2"	7:5:14:DC:OP2	2.20	0.42
2:C:1124:ILE:O	2:C:1128:ILE:HG13	2.19	0.42
2:C:562:GLU:O	2:C:563:THR:CB	2.67	0.42
2:C:673:HIS:HB3	3:D:763:PHE:O	2.19	0.42
3:D:1078:LEU:CG	3:D:1101:LEU:HD11	2.46	0.42
3:D:842:ARG:HB2	3:D:864:LEU:HD12	2.00	0.42
3:D:952:VAL:CG1	3:D:984:LEU:HD13	2.49	0.42
3:D:960:LEU:HD13	3:D:963:VAL:HG21	2.01	0.42
1:G:86:LYS:HG3	1:G:173:VAL:CG1	2.49	0.42
2:I:1145:ILE:HG22	2:I:1146:GLN:N	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:1322:SER:O	2:I:1325:VAL:HB	2.20	0.42
2:I:178:PRO:HB3	2:I:397:LEU:CD2	2.47	0.42
2:I:178:PRO:HD3	2:I:395:TYR:OH	2.19	0.42
2:I:379:GLU:O	2:I:383:SER:HB2	2.19	0.42
2:I:671:LEU:HD12	2:I:671:LEU:HA	1.69	0.42
3:J:343:LEU:HD23	3:J:343:LEU:HA	1.76	0.42
3:J:368:LEU:O	3:J:441:LEU:CD2	2.57	0.42
3:J:515:ARG:HD3	3:J:719:PHE:CE1	2.54	0.42
3:J:828:GLY:CA	3:J:996:LYS:HB2	2.49	0.42
5:L:87:VAL:HG11	5:L:103:ARG:HD3	2.00	0.42
1:N:67:GLU:OE1	1:N:82:LEU:HD11	2.18	0.42
2:O:1296:ASP:N	2:O:1296:ASP:OD1	2.51	0.42
2:O:180:ARG:O	2:O:395:TYR:HA	2.19	0.42
2:O:24:VAL:HA	2:O:25:PRO:HD2	1.81	0.42
2:O:969:ALA:O	2:O:973:SER:OG	2.29	0.42
3:P:1045:THR:HG22	3:P:1067:ARG:CD	2.32	0.42
3:P:130:MET:HG2	3:P:135:ILE:HG12	2.00	0.42
3:P:551:ARG:C	3:P:552:ILE:HD13	2.40	0.42
3:P:576:ARG:HD3	3:P:592:VAL:O	2.18	0.42
3:P:398:LYS:CE	5:R:532:LEU:HD21	2.47	0.42
6:1:51:DC:C6	6:1:52:DT:H73	2.54	0.42
3:J:791:ALA:O	7:5:13:DA:H5'	2.19	0.42
2:C:944:ARG:HD2	2:C:947:GLU:OE2	2.19	0.42
3:D:131:PRO:O	3:D:135:ILE:CD1	2.67	0.42
2:C:1309:VAL:HG22	3:D:379:PRO:O	2.18	0.42
3:D:813:ASP:OD1	3:D:883:ARG:NH1	2.31	0.42
3:D:927:GLY:O	3:D:931:THR:HG23	2.19	0.42
5:F:295:CYS:O	5:F:296:LYS:CG	2.67	0.42
3:D:282:LEU:HD21	5:F:410:ILE:CD1	2.48	0.42
2:I:1164:PHE:N	2:I:1164:PHE:CD2	2.88	0.42
2:I:1335:ILE:CG2	3:J:22:ILE:HG22	2.50	0.42
2:I:375:PRO:HD3	5:L:87:VAL:HG21	2.01	0.42
2:I:594:VAL:CG2	2:I:599:VAL:HG13	2.42	0.42
3:J:194:LEU:HG	3:J:194:LEU:H	1.55	0.42
3:J:331:ILE:H	3:J:331:ILE:HG12	1.43	0.42
3:J:672:LEU:O	3:J:673:VAL:CG2	2.68	0.42
3:J:842:ARG:NH2	3:J:884:SER:HA	2.33	0.42
3:J:911:LYS:HG2	3:J:911:LYS:H	1.32	0.42
5:L:459:THR:O	5:L:463:LEU:CG	2.53	0.42
1:M:224:LEU:HG	1:M:225:ALA:CA	2.45	0.42
1:M:36:GLY:O	1:M:201:LEU:HD11	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:102:LEU:HD12	1:N:114:ASP:C	2.40	0.42
2:O:1288:GLN:NE2	3:P:1354:GLY:O	2.53	0.42
2:O:315:MET:HA	2:O:315:MET:CE	2.49	0.42
2:O:541:GLU:HG3	2:O:542:ARG:N	2.34	0.42
2:O:742:TYR:O	2:O:974:ARG:NH1	2.45	0.42
3:P:322:ARG:CB	3:P:323:PRO:HD2	2.50	0.42
3:P:471:PRO:HB2	3:P:476:ALA:HB1	2.00	0.42
3:P:452:LEU:HD22	3:P:502:PRO:HA	2.01	0.42
5:R:417:ASP:OD1	5:R:417:ASP:N	2.51	0.42
5:R:550:GLY:HA3	5:R:603:ARG:HH22	1.81	0.42
7:2:27:DA:C2'	7:2:28:DG:H5'	2.50	0.42
1:B:101:THR:HG22	1:B:143:ARG:HG2	2.01	0.42
1:B:71:LYS:O	1:B:74:VAL:HB	2.19	0.42
1:B:88:LEU:HD13	1:B:128:HIS:CE1	2.54	0.42
2:C:934:PHE:O	2:C:1048:LYS:HG2	2.19	0.42
2:C:1058:ARG:HH11	2:C:1238:LEU:CD1	2.25	0.42
1:A:48:LEU:HD13	2:C:1082:ILE:HG21	2.01	0.42
2:C:1268:GLN:HE22	3:D:351:GLY:H	1.64	0.42
2:C:1303:LYS:HG2	2:C:1306:LYS:NZ	2.35	0.42
2:C:1314:GLN:CG	2:C:1315:MET:N	2.83	0.42
2:C:530:ILE:N	2:C:530:ILE:CD1	2.76	0.42
2:C:24:VAL:HG11	2:C:707:ALA:HB1	2.02	0.42
3:D:111:THR:HG23	3:D:300:GLN:CD	2.39	0.42
3:D:1138:LEU:CD2	3:D:1139:PRO:HD3	2.49	0.42
3:D:1184:ASP:HA	3:D:1185:PRO:HD3	1.93	0.42
3:D:1233:ILE:H	3:D:1233:ILE:HG13	1.25	0.42
3:D:246:PRO:HD2	3:D:249:LEU:HD12	2.01	0.42
3:D:621:ALA:HA	3:D:624:ILE:CD1	2.49	0.42
3:D:741:ALA:C	3:D:762:ASN:HD22	2.22	0.42
5:F:588:ARG:HH12	5:F:592:ALA:HB2	1.84	0.42
2:I:1165:SER:O	2:I:1169:VAL:HG23	2.20	0.42
2:I:161:LYS:HA	2:I:161:LYS:HE2	2.01	0.42
2:I:207:THR:O	2:I:211:ARG:HG3	2.19	0.42
2:I:810:TYR:CB	2:I:817:LEU:HD21	2.50	0.42
2:I:920:VAL:HA	2:I:921:PRO:HD3	1.81	0.42
3:J:205:LEU:HA	3:J:205:LEU:HD23	1.60	0.42
3:J:265:LEU:O	3:J:269:TYR:HD2	2.03	0.42
2:I:1333:LEU:CD2	3:J:327:LEU:HD13	2.36	0.42
5:L:405:ILE:H	5:L:405:ILE:HG13	1.45	0.42
2:O:1127:LYS:HE3	2:O:1203:ASP:HB2	2.02	0.42
2:O:371:ARG:CB	5:R:99:ARG:HH21	2.28	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1319:PHE:CD2	3:P:1340:LYS:HB3	2.54	0.42
3:P:484:MET:HE2	3:P:484:MET:HB3	1.74	0.42
3:P:610:ARG:CZ	3:P:901:ARG:HH12	2.32	0.42
3:P:679:TYR:CZ	3:P:683:ILE:HD11	2.55	0.42
3:P:725:MET:O	3:P:728:SER:OG	2.38	0.42
3:P:783:LEU:O	3:P:786:THR:HB	2.18	0.42
5:R:134:VAL:HG13	5:R:140:ALA:HB1	2.01	0.42
3:P:262:THR:C	5:R:507:MET:H	2.07	0.42
8:6:14:A:H3'	8:6:15:G:C8	2.55	0.42
1:B:92:VAL:CG1	1:B:93:GLN:N	2.82	0.42
2:C:506:PHE:O	2:C:512:SER:CB	2.68	0.42
2:C:794:LEU:HD12	2:C:794:LEU:HA	1.66	0.42
2:C:53:PHE:CZ	2:C:98:VAL:HG21	2.54	0.42
3:D:926:PRO:HB2	3:D:1241:TYR:CE1	2.54	0.42
3:D:374:LEU:HG	3:D:375:GLU:N	2.33	0.42
3:D:502:PRO:CD	3:D:605:LEU:HD11	2.50	0.42
3:D:614:LEU:HB2	4:E:7:GLN:NE2	2.34	0.42
3:D:725:MET:HE3	3:D:732:GLY:H	1.84	0.42
3:D:830:ASP:CB	3:D:832:LYS:NZ	2.83	0.42
5:F:231:THR:O	5:F:231:THR:HG22	2.19	0.42
2:C:375:PRO:HA	5:F:87:VAL:HG21	2.01	0.42
1:G:69:SER:O	1:G:70:THR:HB	2.19	0.42
2:I:1042:LEU:HD13	2:I:1049:ILE:HD12	2.02	0.42
2:I:1200:LYS:CE	2:I:1206:THR:HG21	2.44	0.42
3:J:97:VAL:HG11	3:J:101:ARG:HD2	2.01	0.42
5:L:151:VAL:CG2	5:L:162:ILE:HG13	2.49	0.42
5:L:92:GLY:O	5:L:93:ARG:HG3	2.20	0.42
1:N:165:GLU:HG2	1:N:166:ARG:N	2.34	0.42
2:O:390:PHE:O	2:O:419:ILE:CG2	2.67	0.42
2:O:519:ASN:ND2	2:O:686:GLN:O	2.53	0.42
3:P:1258:ARG:CG	3:P:1258:ARG:NH1	2.79	0.42
3:P:422:LEU:HA	3:P:422:LEU:HD23	1.71	0.42
3:P:536:LEU:HB3	3:P:542:ALA:CB	2.47	0.42
3:P:536:LEU:HD23	3:P:541:LEU:HB2	2.01	0.42
5:R:228:TYR:HD2	5:R:229:VAL:HG13	1.84	0.42
6:1:19:DA:C2	7:2:45:DG:C2	3.07	0.42
6:4:24:DC:H2"	6:4:25:DC:OP2	2.19	0.42
3:J:320:ASN:HB3	7:5:22:DA:C2	2.54	0.42
7:8:3:DG:C5	7:8:4:DC:N4	2.87	0.42
1:A:29:GLU:OE1	1:A:190:ALA:CB	2.68	0.42
1:B:112:ALA:HB1	1:B:123:ILE:HG21	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:177:ILE:HG12	2:C:183:TRP:CD1	2.55	0.42
2:C:516:ASP:HB3	2:C:522:SER:OG	2.19	0.42
2:C:736:VAL:HG12	2:C:737:ASN:N	2.34	0.42
2:C:819:SER:O	2:C:822:VAL:HG23	2.19	0.42
3:D:233:LYS:HE2	3:D:236:TRP:HE1	1.85	0.42
3:D:428:THR:O	3:D:428:THR:HG22	2.19	0.42
3:D:835:LEU:HG	3:D:836:ARG:CA	2.44	0.42
1:H:179:PRO:O	1:H:208:ASN:HB2	2.20	0.42
2:I:1335:ILE:HG22	3:J:22:ILE:HG22	2.02	0.42
2:I:213:LEU:HD23	2:I:213:LEU:HA	1.88	0.42
2:I:678:ARG:HB3	2:I:1108:ASN:HD22	1.84	0.42
2:I:709:ALA:HB3	2:I:792:GLY:O	2.20	0.42
2:I:957:LYS:HG3	2:I:1029:LEU:HD11	2.02	0.42
3:J:1212:ASP:N	3:J:1212:ASP:OD1	2.46	0.42
3:J:320:ASN:OD1	3:J:322:ARG:HG2	2.20	0.42
3:J:518:VAL:CG1	3:J:519:ASN:OD1	2.64	0.42
3:J:596:LEU:HA	3:J:596:LEU:HD23	1.77	0.42
3:J:611:ILE:HG22	3:J:612:LEU:HD23	2.01	0.42
3:J:363:LEU:HD23	3:J:618:VAL:HG13	2.00	0.42
3:J:676:GLY:O	3:J:679:TYR:HB3	2.20	0.42
3:J:68:TYR:CD1	3:J:93:THR:HA	2.55	0.42
1:M:47:LEU:HD23	1:M:47:LEU:HA	1.71	0.42
2:O:1094:VAL:HG23	2:O:1094:VAL:H	1.48	0.42
2:O:297:VAL:HG11	2:O:311:CYS:CB	2.49	0.42
2:O:727:VAL:HB	2:O:773:LEU:HD22	2.02	0.42
3:P:1348:LYS:O	3:P:1351:VAL:HB	2.20	0.42
3:P:233:LYS:HG3	3:P:234:PRO:HD2	2.01	0.42
3:P:113:HIS:HB2	3:P:239:LEU:HD11	2.00	0.42
3:P:511:TYR:CE2	3:P:515:ARG:HD2	2.54	0.42
3:P:514:THR:HG21	3:P:596:LEU:CD1	2.50	0.42
3:P:584:PRO:HD2	3:P:620:PHE:CE1	2.55	0.42
3:P:703:THR:HG22	3:P:717:VAL:HA	2.01	0.42
3:P:884:SER:OG	3:P:885:VAL:N	2.52	0.42
3:P:790:THR:HG22	3:P:931:THR:OG1	2.19	0.42
5:R:420:GLU:OE1	5:R:423:ARG:NH2	2.53	0.42
5:R:461:ASN:N	5:R:461:ASN:OD1	2.52	0.42
3:J:427:PRO:HG3	7:5:13:DA:H2	1.84	0.42
6:7:51:DC:C5	6:7:52:DT:H73	2.54	0.42
1:A:82:LEU:HD22	1:A:173:VAL:HG22	2.00	0.42
2:C:1161:LEU:HD12	2:C:1164:PHE:CD2	2.55	0.42
2:C:184:LEU:HA	2:C:184:LEU:HD23	1.75	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:519:ASN:OD1	2:C:519:ASN:N	2.53	0.42
2:C:642:SER:O	2:C:643:SER:HB3	2.19	0.42
3:D:1037:PHE:HB3	3:D:1040:MET:HB2	2.01	0.42
3:D:1046:ILE:HD12	3:D:1059:LEU:HD22	2.00	0.42
3:D:1229:VAL:CG1	3:D:1230:THR:N	2.81	0.42
3:D:24:LEU:HD21	3:D:1337:VAL:HA	2.00	0.42
3:D:250:ARG:N	3:D:251:PRO:HD3	2.35	0.42
3:D:572:THR:OG1	3:D:576:ARG:HB2	2.20	0.42
3:D:137:ARG:NH1	5:F:88:GLU:O	2.49	0.42
2:I:10:ARG:HB2	2:I:10:ARG:HE	1.56	0.42
2:I:1135:GLN:O	2:I:1136:GLN:HB2	2.20	0.42
3:J:331:ILE:HG22	3:J:338:PHE:CE2	2.53	0.42
3:J:963:VAL:O	3:J:964:LYS:HG3	2.20	0.42
4:K:6:VAL:O	4:K:10:VAL:HG23	2.19	0.42
5:L:258:GLN:HG2	5:L:258:GLN:O	2.20	0.42
1:M:158:ARG:O	1:M:162:GLU:HG3	2.20	0.42
1:N:100:LEU:HA	1:N:100:LEU:HD23	1.92	0.42
2:O:1062:PRO:HA	2:O:1076:ILE:HB	2.02	0.42
2:O:1337:ILE:HD12	3:P:22:ILE:HG12	2.02	0.42
2:O:319:LEU:H	2:O:319:LEU:HG	1.54	0.42
2:O:448:LEU:HD11	2:O:587:LEU:HB2	2.02	0.42
3:P:1262:ARG:O	3:P:1282:TYR:HB2	2.19	0.42
2:O:1268:GLN:NE2	3:P:351:GLY:HA2	2.34	0.42
3:P:623:GLN:O	3:P:627:THR:OG1	2.38	0.42
5:R:126:GLY:O	5:R:130:VAL:HG23	2.20	0.42
5:R:213:ASP:HA	5:R:214:PRO:HD3	1.91	0.42
5:R:494:ILE:N	5:R:494:ILE:HD12	2.34	0.42
1:A:235:ARG:OXT	1:B:218:ARG:CD	2.67	0.42
1:B:31:LEU:HA	1:B:31:LEU:HD23	1.79	0.42
1:B:76:GLU:HG3	1:B:80:GLU:OE1	2.20	0.42
2:C:1065:LYS:HE3	3:D:463:GLY:HA3	2.02	0.42
2:C:379:GLU:O	2:C:383:SER:HB2	2.20	0.42
2:C:989:LEU:HD22	2:C:997:TRP:CZ2	2.55	0.42
3:D:1284:ARG:HA	3:D:1287:ILE:CD1	2.41	0.42
3:D:161:THR:N	3:D:164:GLN:OE1	2.45	0.42
3:D:209:ASN:HB2	3:D:214:ARG:CD	2.41	0.42
3:D:592:VAL:CG2	3:D:592:VAL:O	2.67	0.42
3:D:610:ARG:HH22	3:D:901:ARG:NH1	2.17	0.42
2:C:808:ASN:CA	3:D:629:PHE:HB3	2.49	0.42
3:D:700:ASN:O	3:D:704:GLU:HB3	2.20	0.42
5:F:464:ASN:HB2	7:2:26:DT:H71	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:263:SER:HB2	5:F:507:MET:SD	2.60	0.42
5:F:585:GLU:CG	7:2:46:DT:C5	2.98	0.42
1:G:136:GLU:HG3	1:G:137:ASN:N	2.34	0.42
2:I:1064:ASP:O	2:I:1076:ILE:HD12	2.20	0.42
2:I:243:PRO:CG	2:I:278:GLU:HG3	2.50	0.42
2:I:9:LYS:HG2	2:I:1171:ARG:HD3	2.01	0.42
3:J:1289:ASN:O	3:J:1293:GLU:HG3	2.20	0.42
3:J:110:PRO:CB	3:J:238:ILE:CG2	2.98	0.42
2:I:812:PHE:HZ	3:J:503:SER:HB2	1.85	0.42
3:J:950:ILE:HG23	3:J:995:TYR:CZ	2.55	0.42
1:M:214:GLU:O	1:M:217:ILE:HB	2.20	0.42
1:M:221:ALA:O	1:M:224:LEU:HB3	2.20	0.42
2:O:345:PRO:O	2:O:349:GLU:HG2	2.19	0.42
2:O:631:GLU:HG3	2:O:632:ASP:N	2.35	0.42
2:O:866:ASP:OD2	2:O:944:ARG:HD3	2.20	0.42
3:P:121:PRO:O	3:P:122:SER:CB	2.65	0.42
3:P:325:LYS:HD3	5:R:508:GLU:OE1	2.20	0.42
3:P:552:ILE:CG1	3:P:570:LYS:HB2	2.50	0.42
2:O:806:PRO:HG2	3:P:632:ALA:O	2.20	0.42
5:R:153:ALA:O	5:R:155:GLU:N	2.53	0.42
6:1:23:DA:N6	7:2:39:DG:O6	2.53	0.42
1:A:225:ALA:O	1:A:228:LEU:HB2	2.20	0.42
2:C:1006:GLU:HB2	2:C:1007:LYS:HZ3	1.84	0.42
2:C:203:LYS:H	2:C:203:LYS:HG3	1.63	0.42
2:C:436:ARG:HD2	2:C:436:ARG:O	2.20	0.42
2:C:519:ASN:OD1	2:C:522:SER:HB2	2.20	0.42
2:C:531:SER:CB	2:C:572:ILE:HG12	2.50	0.42
2:C:869:GLY:C	2:C:870:ILE:HD13	2.40	0.42
3:D:1275:LEU:HA	3:D:1275:LEU:HD12	1.97	0.42
3:D:378:LYS:HG2	3:D:382:TYR:OH	2.19	0.42
3:D:527:LEU:HD13	3:D:532:GLU:HB3	2.02	0.42
3:D:583:VAL:HG12	3:D:584:PRO:O	2.20	0.42
3:D:673:VAL:HG13	3:D:674:THR:O	2.19	0.42
3:D:848:VAL:CG2	3:D:880:VAL:CG1	2.94	0.42
3:D:914:ALA:HB2	3:D:1359:ALA:HB1	2.01	0.42
3:D:960:LEU:HD13	3:D:963:VAL:HG11	2.02	0.42
5:F:601:PRO:CB	5:F:608:ARG:HH21	2.33	0.42
1:H:51:MET:HA	1:H:52:PRO:HD2	1.91	0.42
2:I:671:LEU:CB	2:I:1186:VAL:HG13	2.50	0.42
2:I:220:ILE:HG22	2:I:221:LEU:HG	2.01	0.42
2:I:719:LYS:HD3	2:I:751:TYR:HE1	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:I:827:ARG:O	2:I:828:PHE:CB	2.68	0.42
3:J:1101:LEU:HD13	3:J:1107:VAL:CG2	2.49	0.42
3:J:1106:ILE:CG1	3:J:1125:PRO:HG2	2.49	0.42
3:J:580:TRP:HA	3:J:583:VAL:HG23	2.01	0.42
3:J:746:LEU:H	3:J:746:LEU:HG	1.51	0.42
3:J:79:LYS:HG2	3:J:79:LYS:O	2.20	0.42
5:L:115:GLY:O	5:L:119:ILE:HD12	2.19	0.42
1:N:211:ILE:HG23	1:N:215:GLU:HB3	2.02	0.42
2:O:1281:TYR:OH	3:P:432:LEU:HD23	2.20	0.42
2:O:196:VAL:HG23	2:O:206:ALA:HA	2.02	0.42
2:O:404:LYS:C	2:O:404:LYS:HD3	2.40	0.42
2:O:50:GLU:OE2	2:O:73:TYR:HE2	2.03	0.42
2:O:819:SER:OG	2:O:821:ARG:HB2	2.20	0.42
3:P:501:VAL:HG13	3:P:502:PRO:HD2	2.00	0.42
5:R:110:LEU:CD1	5:R:110:LEU:N	2.56	0.42
8:3:14:A:H3'	8:3:15:G:C8	2.55	0.41
6:4:28:DA:N6	7:5:34:DG:O6	2.53	0.41
6:7:50:DT:C6	6:7:50:DT:H3'	2.55	0.41
1:A:17:GLU:HB3	1:A:25:LYS:O	2.20	0.41
1:B:50:SER:O	1:B:52:PRO:HD3	2.20	0.41
2:C:358:ASP:OD1	2:C:358:ASP:N	2.37	0.41
2:C:972:PHE:CE2	2:C:994:ARG:O	2.72	0.41
3:D:1233:ILE:O	3:D:1237:VAL:CG2	2.48	0.41
3:D:1326:GLN:OE1	7:2:11:DA:C4'	2.56	0.41
3:D:370:LYS:CE	3:D:443:GLU:HB3	2.49	0.41
2:C:1281:TYR:OH	3:D:431:ARG:HG3	2.19	0.41
3:D:522:GLY:HA2	3:D:525:MET:SD	2.60	0.41
3:D:519:ASN:CA	3:D:523:GLU:HB2	2.50	0.41
3:D:672:LEU:O	3:D:673:VAL:HG23	2.19	0.41
3:D:701:LEU:HD23	3:D:723:TYR:HB2	2.02	0.41
3:D:960:LEU:HD23	3:D:981:GLU:O	2.20	0.41
4:E:5:THR:HG22	4:E:6:VAL:N	2.34	0.41
5:F:592:ALA:O	5:F:595:LEU:HB2	2.19	0.41
1:G:16:ILE:CG2	1:G:214:GLU:HG3	2.45	0.41
2:I:204:LEU:HD13	2:I:208:ILE:HD13	2.02	0.41
2:I:805:MET:O	2:I:811:ASN:ND2	2.53	0.41
2:I:868:SER:HB2	2:I:870:ILE:HD11	2.02	0.41
3:J:815:GLY:H	3:J:883:ARG:HH22	1.67	0.41
5:L:359:LYS:HD2	5:L:359:LYS:HA	1.82	0.41
1:M:35:PHE:N	1:M:35:PHE:CD2	2.87	0.41
1:M:42:ALA:CB	1:N:38:THR:HG22	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:68:LEU:HD12	2:O:101:ARG:O	2.19	0.41
2:O:700:VAL:HG21	2:O:1114:GLU:HG3	2.02	0.41
2:O:1307:ASN:ND2	2:O:1312:ASN:ND2	2.68	0.41
2:O:155:VAL:HG22	2:O:405:PHE:CD2	2.55	0.41
2:O:727:VAL:N	2:O:773:LEU:HD22	2.29	0.41
3:P:1093:THR:HG22	3:P:1199:PHE:CB	2.49	0.41
3:P:1262:ARG:NH2	3:P:1316:THR:HB	2.30	0.41
3:P:131:PRO:O	3:P:135:ILE:CG1	2.67	0.41
2:O:1334:GLY:O	3:P:25:ALA:HB3	2.19	0.41
3:P:432:LEU:HD21	3:P:489:ASN:CB	2.49	0.41
3:P:697:MET:HB3	3:P:697:MET:HE2	1.85	0.41
3:P:705:THR:HG22	3:P:705:THR:O	2.20	0.41
3:P:950:ILE:HD11	3:P:1020:TRP:HZ3	1.85	0.41
2:O:368:ARG:CD	5:R:90:GLU:HG2	2.47	0.41
7:2:45:DG:C2	7:2:46:DT:C2	3.08	0.41
7:2:4:DC:C2	7:2:5:DC:C4	3.08	0.41
5:L:451:ARG:NH2	6:4:32:DA:OP1	2.51	0.41
5:R:428:SER:CB	6:7:40:DA:OP2	2.67	0.41
7:8:15:DT:C4	7:8:16:DC:N4	2.88	0.41
7:8:27:DA:H1'	7:8:28:DG:H5"	2.03	0.41
1:B:158:ARG:CZ	1:B:172:LEU:HD11	2.50	0.41
2:C:267:ARG:HD3	2:C:267:ARG:C	2.40	0.41
2:C:428:VAL:HB	2:C:429:MET:HG3	2.00	0.41
2:C:718:ALA:CB	2:C:783:LEU:HD21	2.41	0.41
3:D:1077:ALA:HB2	3:D:1100:PHE:CD1	2.55	0.41
3:D:1176:VAL:HA	3:D:1187:GLU:HA	2.02	0.41
3:D:332:LYS:O	3:D:333:GLY:O	2.38	0.41
3:D:501:VAL:CG1	3:D:502:PRO:CD	2.96	0.41
3:D:679:TYR:CE1	3:D:683:ILE:HD12	2.55	0.41
2:I:1006:GLU:OE1	2:I:1006:GLU:CA	2.68	0.41
2:I:1161:LEU:O	2:I:1164:PHE:CD2	2.69	0.41
2:I:243:PRO:HG2	2:I:278:GLU:HG3	2.01	0.41
2:I:636:CYS:SG	2:I:650:VAL:HG13	2.60	0.41
2:I:92:TYR:HB3	2:I:137:VAL:HB	2.01	0.41
2:I:969:ALA:O	2:I:973:SER:OG	2.29	0.41
3:J:1062:LEU:HD13	3:J:1066:GLU:OE1	2.20	0.41
3:J:1087:ASP:OD2	3:J:1096:PRO:HB3	2.21	0.41
3:J:519:ASN:ND2	3:J:709:ARG:HB2	2.35	0.41
3:J:623:GLN:O	3:J:627:THR:OG1	2.38	0.41
3:J:820:ILE:O	3:J:882:VAL:HG13	2.20	0.41
2:O:1085:MET:CA	2:O:1085:MET:HE3	2.43	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1220:GLN:HG2	2:O:1221:PHE:O	2.20	0.41
2:O:169:LYS:HA	3:P:1065:ALA:HA	2.01	0.41
2:O:603:ILE:HG13	2:O:603:ILE:H	1.39	0.41
2:O:812:PHE:HB3	2:O:813:GLU:H	1.67	0.41
3:P:265:LEU:CD2	3:P:326:SER:HA	2.44	0.41
3:P:350:SER:HB3	3:P:469:HIS:CE1	2.55	0.41
3:P:433:GLY:O	3:P:457:TYR:HE1	2.03	0.41
2:O:1104:PRO:CG	3:P:725:MET:CE	2.92	0.41
3:P:339:ARG:HH12	3:P:798:ARG:HH22	1.68	0.41
3:P:297:ARG:NH1	5:R:100:MET:CB	2.83	0.41
5:R:409:ASN:O	5:R:413:MET:HG2	2.19	0.41
7:2:23:DT:H3'	7:2:24:DT:H5"	2.01	0.41
7:2:5:DC:H2"	7:2:6:DG:OP2	2.20	0.41
7:5:25:DA:C2'	7:5:26:DT:OP2	2.52	0.41
1:B:61:ILE:HD12	1:B:64:VAL:HG12	2.03	0.41
2:C:1255:THR:O	2:C:1255:THR:HG22	2.20	0.41
5:F:166:VAL:CG1	5:F:168:PRO:HD3	2.47	0.41
5:F:313:ASP:O	5:F:316:PHE:HB2	2.20	0.41
5:F:390:ILE:CD1	5:F:432:THR:HG23	2.50	0.41
5:F:390:ILE:HA	5:F:393:LYS:NZ	2.35	0.41
5:F:493:LYS:HE3	5:F:497:VAL:CG2	2.45	0.41
1:G:158:ARG:O	1:G:162:GLU:HB2	2.20	0.41
2:I:1116:HIS:CD2	3:J:641:ILE:HG13	2.54	0.41
2:I:163:LYS:HG2	2:I:164:THR:N	2.34	0.41
2:I:237:LEU:O	2:I:287:VAL:HG22	2.21	0.41
2:I:550:VAL:O	3:J:777:HIS:ND1	2.53	0.41
3:J:1175:LEU:CD2	3:J:1196:LEU:HD13	2.50	0.41
3:J:1259:GLN:OE1	3:J:1262:ARG:NH1	2.53	0.41
3:J:29:MET:O	3:J:32:SER:HB3	2.20	0.41
3:J:30:ILE:HG21	3:J:243:PRO:HB3	2.02	0.41
3:J:339:ARG:NH2	3:J:798:ARG:HH12	2.18	0.41
4:K:62:GLN:O	4:K:66:VAL:HG23	2.20	0.41
5:L:113:ARG:HB2	5:L:114:GLU:H	1.49	0.41
5:L:167:ASP:N	5:L:168:PRO:CD	2.82	0.41
5:L:390:ILE:HG21	5:L:432:THR:CG2	2.51	0.41
1:M:83:LEU:HD13	1:M:83:LEU:HA	1.85	0.41
2:O:194:LEU:HD13	2:O:432:LEU:HD21	2.01	0.41
2:O:557:ARG:CG	2:O:557:ARG:HH11	2.29	0.41
2:O:993:PRO:HG3	2:O:996:ARG:NH1	2.35	0.41
3:P:1161:GLY:HA2	3:P:1180:VAL:HG13	2.02	0.41
3:P:807:LEU:HD23	3:P:1255:VAL:HG13	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:1369:ARG:O	3:P:1372:ARG:HB2	2.19	0.41
3:P:24:LEU:HA	3:P:24:LEU:HD23	1.30	0.41
3:P:407:VAL:HG22	3:P:408:VAL:N	2.35	0.41
3:P:481:ARG:HG2	4:Q:6:VAL:HG21	2.00	0.41
2:O:809:GLY:HA2	3:P:629:PHE:CE1	2.54	0.41
4:Q:64:LEU:H	4:Q:64:LEU:HG	1.64	0.41
4:Q:86:ILE:HG23	4:Q:90:ARG:NH1	2.35	0.41
5:R:370:ALA:CA	5:R:373:ARG:NH1	2.77	0.41
5:R:395:THR:HA	5:R:404:LEU:HD13	2.01	0.41
6:1:26:DT:C2'	6:1:27:DC:OP2	2.68	0.41
1:A:227:GLN:O	1:A:231:PHE:CE1	2.73	0.41
1:B:57:THR:CB	1:B:147:GLN:NE2	2.84	0.41
2:C:297:VAL:CG2	2:C:315:MET:H	2.33	0.41
2:C:429:MET:HG3	2:C:429:MET:H	1.68	0.41
2:C:975:ILE:HG22	2:C:979:LEU:HD11	2.03	0.41
3:D:1101:LEU:HD13	3:D:1107:VAL:HG22	2.02	0.41
3:D:1163:VAL:HG12	3:D:1164:SER:N	2.34	0.41
3:D:146:VAL:HG12	3:D:155:GLU:O	2.19	0.41
3:D:29:MET:O	3:D:32:SER:HB3	2.20	0.41
3:D:368:LEU:HD12	3:D:368:LEU:HA	1.81	0.41
3:D:759:ILE:O	3:D:759:ILE:HG22	2.20	0.41
2:C:1107:MET:HE1	3:D:763:PHE:CD2	2.56	0.41
3:D:615:LYS:CE	4:E:4:VAL:HB	2.48	0.41
5:F:115:GLY:O	5:F:118:ASP:HB2	2.20	0.41
5:F:583:THR:CB	5:F:587:ILE:HD11	2.50	0.41
1:G:88:LEU:HD12	1:G:89:ALA:N	2.36	0.41
2:I:253:PHE:HB3	2:I:288:PRO:HG3	2.02	0.41
2:I:280:ASP:O	2:I:281:ASP:HB2	2.20	0.41
2:I:477:GLU:HG3	2:I:478:ARG:N	2.34	0.41
2:I:561:ILE:CA	2:I:680:LEU:HD13	2.50	0.41
2:I:525:THR:HG22	2:I:687:ARG:HD3	2.02	0.41
2:I:729:ALA:O	2:I:730:SER:CB	2.65	0.41
3:J:1342:ASP:OD2	3:J:1344:LEU:CG	2.61	0.41
3:J:917:VAL:CG2	3:J:1347:LEU:HD11	2.51	0.41
3:J:436:ALA:C	3:J:437:PHE:CD1	2.94	0.41
3:J:485:MET:HB3	3:J:488:ASN:OD1	2.20	0.41
3:J:672:LEU:C	3:J:673:VAL:HG23	2.40	0.41
5:L:166:VAL:HG12	5:L:168:PRO:CG	2.50	0.41
1:M:190:ALA:HB2	1:M:200:LYS:HB3	2.02	0.41
1:N:86:LYS:HE2	1:N:173:VAL:HG13	2.01	0.41
2:O:1062:PRO:HA	2:O:1076:ILE:CG2	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:O:1116:HIS:CE1	2:O:1207:SER:O	2.73	0.41
2:O:1276:TRP:N	2:O:1276:TRP:CD1	2.86	0.41
2:O:672:GLU:HB2	2:O:673:HIS:CD2	2.55	0.41
3:P:1285:VAL:CG1	3:P:1286:LYS:N	2.82	0.41
2:O:1099:ASN:ND2	3:P:504:GLN:HE21	2.18	0.41
2:O:1223:ARG:CD	3:P:636:GLY:O	2.65	0.41
3:P:988:PHE:HB2	3:P:990:ARG:NH2	2.35	0.41
5:R:489:MET:SD	5:R:493:LYS:HE2	2.60	0.41
3:P:335:GLN:NE2	5:R:518:HIS:CD2	2.88	0.41
5:F:428:SER:OG	6:1:41:DT:H73	2.20	0.41
6:4:30:DG:C8	6:4:31:DT:H71	2.55	0.41
8:6:13:GTP:H2'	8:6:14:A:H8	1.85	0.41
7:8:16:DC:H2"	7:8:17:DG:H5'	2.02	0.41
1:B:212:ASP:HA	1:B:213:PRO:HD3	1.85	0.41
2:C:213:LEU:HD23	2:C:213:LEU:HA	1.80	0.41
2:C:390:PHE:N	2:C:390:PHE:HD2	2.18	0.41
2:C:412:GLU:H	2:C:412:GLU:HG3	1.63	0.41
2:C:521:LEU:C	2:C:521:LEU:HD12	2.41	0.41
2:C:878:THR:CG2	2:C:879:GLY:H	2.33	0.41
2:C:897:PRO:HB2	5:F:565:ILE:HG13	2.01	0.41
3:D:1120:THR:HG21	3:D:1123:ARG:HG2	2.01	0.41
3:D:1225:GLY:O	3:D:1229:VAL:HG12	2.20	0.41
3:D:357:VAL:HG22	3:D:461:PHE:CE2	2.56	0.41
3:D:421:VAL:HG12	3:D:422:LEU:N	2.35	0.41
3:D:42:GLU:O	3:D:56:LEU:HG	2.20	0.41
3:D:471:PRO:CG	3:D:471:PRO:O	2.65	0.41
3:D:767:LEU:N	3:D:767:LEU:HD23	2.35	0.41
3:D:828:GLY:O	3:D:994:SER:O	2.37	0.41
5:F:166:VAL:CG1	5:F:212:ILE:HG13	2.50	0.41
1:H:13:LEU:HD21	1:H:16:ILE:HG23	2.02	0.41
1:H:61:ILE:HD11	1:H:171:LEU:CD1	2.51	0.41
1:H:59:VAL:HG21	1:H:85:LEU:HD13	2.02	0.41
2:I:310:ILE:CD1	2:I:324:LYS:HB3	2.46	0.41
2:I:865:LEU:HD23	2:I:865:LEU:HA	1.71	0.41
3:J:239:LEU:HD23	3:J:239:LEU:HA	1.67	0.41
3:J:901:ARG:HD3	3:J:906:GLY:O	2.20	0.41
4:K:16:ARG:O	4:K:19:LEU:HB3	2.21	0.41
5:L:402:LEU:HA	5:L:405:ILE:CD1	2.39	0.41
1:M:203:ILE:HG22	1:M:205:MET:HE2	2.03	0.41
1:N:71:LYS:CD	1:N:140:ILE:HD13	2.47	0.41
1:N:54:CYS:SG	1:N:148:ARG:HB2	2.61	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:N:190:ALA:HB2	1:N:200:LYS:N	2.35	0.41
2:O:840:SER:OG	2:O:1048:LYS:O	2.34	0.41
2:O:522:SER:O	2:O:526:HIS:HB2	2.20	0.41
2:O:1305:TYR:CD2	3:P:379:PRO:HB3	2.47	0.41
3:P:364:HIS:HE1	3:P:438:GLU:OE1	2.03	0.41
5:R:407:GLU:CG	5:R:442:SER:CB	2.94	0.41
6:4:47:DC:H2"	6:4:48:DA:O4'	2.20	0.41
7:5:5:DC:H1'	7:5:6:DG:H5'	2.02	0.41
1:A:44:ARG:CA	1:A:47:LEU:HD12	2.49	0.41
1:B:158:ARG:HH22	1:B:175:ALA:HB2	1.85	0.41
1:A:11:PRO:O	1:B:230:ALA:CB	2.69	0.41
2:C:1257:GLN:HG2	2:C:1258:PRO:HD2	2.03	0.41
2:C:1283:ALA:HB1	2:C:1286:THR:HG1	1.85	0.41
2:C:275:ARG:NH2	2:C:279:LYS:HD2	2.36	0.41
2:C:668:ILE:HA	2:C:669:PRO:HD3	1.87	0.41
2:C:715:THR:HG22	2:C:786:GLY:N	2.14	0.41
3:D:506:VAL:H	3:D:506:VAL:HG23	1.64	0.41
3:D:514:THR:HB	3:D:595:ALA:HA	2.03	0.41
3:D:537:TYR:CZ	3:D:544:LEU:HD11	2.55	0.41
3:D:659:ALA:O	3:D:663:GLU:HG3	2.21	0.41
3:D:723:TYR:O	3:D:726:ALA:HB3	2.21	0.41
3:D:749:LYS:HB3	3:D:750:PRO:CD	2.49	0.41
3:D:786:THR:HA	3:D:935:PHE:CD2	2.55	0.41
5:F:151:VAL:HB	5:F:161:LEU:HD23	2.03	0.41
2:I:57:PHE:HB3	2:I:58:PRO:HA	2.01	0.41
2:I:902:LEU:HA	2:I:905:ILE:CD1	2.41	0.41
3:J:211:GLU:O	3:J:215:LYS:HG3	2.19	0.41
3:J:504:GLN:HB3	3:J:505:ASP:H	1.70	0.41
3:J:513:MET:HB2	3:J:579:LEU:HD11	2.02	0.41
3:J:65:VAL:CG1	3:J:98:ARG:HH12	2.10	0.41
5:L:400:GLN:OE1	5:L:402:LEU:HG	2.19	0.41
1:M:92:VAL:CG1	1:M:95:LYS:O	2.62	0.41
2:O:1176:LEU:N	2:O:1176:LEU:HD23	2.35	0.41
2:O:1309:VAL:O	3:P:383:GLY:HA3	2.21	0.41
2:O:407:ARG:CB	2:O:407:ARG:CZ	2.98	0.41
2:O:757:THR:CG2	2:O:758:ARG:N	2.83	0.41
3:P:113:HIS:CD2	3:P:115:TRP:HB2	2.56	0.41
3:P:126:LEU:HA	3:P:126:LEU:HD23	1.50	0.41
3:P:1353:VAL:HG23	3:P:1353:VAL:O	2.19	0.41
3:P:205:LEU:HD11	3:P:217:LEU:HB3	2.03	0.41
3:P:326:SER:O	3:P:330:MET:HG3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:368:LEU:HA	3:P:369:PRO:HD3	1.90	0.41
3:P:548:VAL:CG1	3:P:549:LYS:N	2.83	0.41
3:P:572:THR:OG1	3:P:576:ARG:HB2	2.20	0.41
5:R:167:ASP:N	5:R:168:PRO:HD3	2.36	0.41
7:2:4:DC:N3	7:2:5:DC:N4	2.69	0.41
7:2:5:DC:H1'	7:2:6:DG:H5'	2.02	0.41
6:7:49:DG:H2'	6:7:50:DT:O4'	2.21	0.41
2:C:435:ILE:H	2:C:435:ILE:HG13	1.52	0.41
2:C:748:ILE:HD11	2:C:970:GLY:HA3	2.03	0.41
3:D:114:ILE:HG23	3:D:115:TRP:HD1	1.85	0.41
3:D:161:THR:H	3:D:164:GLN:CD	2.21	0.41
3:D:826:ILE:HG12	3:D:831:VAL:HG22	2.03	0.41
4:E:2:ALA:N	4:E:5:THR:C	2.74	0.41
2:I:1199:LEU:CD2	2:I:1204:LEU:HD13	2.50	0.41
2:I:1312:ASN:O	2:I:1313:HIS:HB2	2.21	0.41
2:I:169:LYS:O	2:I:171:LEU:HG	2.19	0.41
2:I:228:VAL:HG11	2:I:239:MET:CE	2.51	0.41
2:I:321:LEU:HD23	2:I:324:LYS:HD2	2.03	0.41
2:I:340:ASP:O	2:I:343:HIS:N	2.51	0.41
2:I:561:ILE:C	2:I:680:LEU:HD13	2.41	0.41
2:I:953:LEU:HB3	2:I:957:LYS:HZ2	1.85	0.41
3:J:1095:MET:CB	3:J:1173:ARG:HH22	2.32	0.41
3:J:1189:MET:HB3	3:J:1189:MET:HE2	1.88	0.41
3:J:255:LEU:HA	3:J:255:LEU:HD23	1.70	0.41
5:L:127:ILE:HG13	5:L:127:ILE:H	1.65	0.41
3:J:253:VAL:HG21	5:L:523:ILE:HG21	2.02	0.41
1:M:40:GLY:HA2	1:M:43:LEU:HD11	1.95	0.41
2:O:1128:ILE:CG2	2:O:1132:LEU:HD11	2.48	0.41
2:O:1333:LEU:HD21	3:P:327:LEU:CB	2.49	0.41
2:O:292:ILE:CD1	2:O:322:LEU:HD11	2.50	0.41
2:O:422:LYS:O	2:O:425:ILE:HB	2.20	0.41
3:P:34:SER:HB3	3:P:104:HIS:HB3	2.03	0.41
3:P:1229:VAL:HG13	3:P:1230:THR:H	1.83	0.41
3:P:22:ILE:HG22	3:P:1336:ALA:HA	2.03	0.41
2:O:1323:PHE:CE2	3:P:1353:VAL:HA	2.56	0.41
3:P:250:ARG:N	3:P:251:PRO:HD3	2.35	0.41
3:P:269:TYR:CD2	3:P:306:LEU:HD21	2.56	0.41
3:P:361:LEU:HD22	3:P:365:GLN:HB3	2.00	0.41
3:P:501:VAL:HG13	3:P:502:PRO:CD	2.50	0.41
3:P:560:ASN:N	3:P:560:ASN:OD1	2.54	0.41
3:P:698:MET:O	3:P:702:GLN:HB2	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:958:ILE:HG23	3:P:982:LEU:HD11	2.01	0.41
5:R:488:LEU:CG	5:R:488:LEU:O	2.56	0.41
5:R:503:GLU:HG2	5:R:504:PRO:HD2	2.01	0.41
3:P:399:LYS:NZ	5:R:612:ASP:OD2	2.42	0.41
6:4:47:DC:H2"	6:4:48:DA:H5"	2.03	0.41
6:4:58:DG:N2	7:5:6:DG:N2	2.69	0.41
6:7:50:DT:C5'	6:7:51:DC:C6	3.03	0.41
2:C:34:SER:OG	2:C:455:SER:HB2	2.21	0.41
2:C:431:LYS:O	2:C:435:ILE:CG1	2.54	0.41
2:C:691:PRO:HB3	2:C:788:SER:HB2	2.03	0.41
2:C:758:ARG:HB2	2:C:833:ILE:HD12	2.02	0.41
2:C:871:VAL:HG22	2:C:883:LEU:HA	2.03	0.41
3:D:1302:TYR:N	3:D:1302:TYR:HD1	2.17	0.41
3:D:332:LYS:HE3	7:2:11:DA:OP1	2.21	0.41
3:D:519:ASN:HA	3:D:523:GLU:CB	2.51	0.41
3:D:58:CYS:SG	3:D:59:ALA:N	2.88	0.41
3:D:989:GLY:C	3:D:990:ARG:HG3	2.40	0.41
4:E:49:ILE:CG2	4:E:50:ALA:N	2.48	0.41
5:F:313:ASP:O	5:F:316:PHE:CB	2.69	0.41
5:F:386:LEU:HA	6:1:41:DT:O4'	2.20	0.41
3:D:43:THR:HG21	5:F:449:THR:CG2	2.51	0.41
5:F:503:GLU:HB3	5:F:504:PRO:CD	2.49	0.41
1:H:185:TYR:CD2	1:H:185:TYR:O	2.74	0.41
2:I:1210:ILE:HG23	2:I:1211:ARG:H	1.84	0.41
2:I:1247:SER:O	3:J:348:ASP:HB3	2.20	0.41
2:I:231:GLU:HB3	2:I:233:ARG:HG3	2.01	0.41
3:J:34:SER:OG	3:J:103:GLY:C	2.59	0.41
3:J:490:ILE:CD1	3:J:614:LEU:CD1	2.99	0.41
5:L:112:THR:HB	5:L:426:LYS:NZ	2.36	0.41
1:M:102:LEU:HD21	1:M:110:VAL:CG1	2.50	0.41
1:M:136:GLU:CG	1:M:137:ASN:N	2.83	0.41
1:M:48:LEU:HG	1:M:183:ILE:HG21	2.03	0.41
2:O:404:LYS:O	2:O:404:LYS:HD3	2.21	0.41
2:O:823:VAL:HG12	2:O:1059:ARG:NE	2.31	0.41
2:O:838:CYS:O	2:O:1049:ILE:HG23	2.21	0.41
3:P:943:ARG:HG3	3:P:1132:LYS:HG3	2.02	0.41
3:P:1184:ASP:N	3:P:1184:ASP:OD1	2.53	0.41
3:P:1333:THR:O	3:P:1337:VAL:HG23	2.20	0.41
3:P:1320:ILE:HD12	3:P:1342:ASP:CG	2.40	0.41
3:P:146:VAL:HG21	3:P:158:GLN:HB3	2.02	0.41
3:P:541:LEU:HD23	3:P:541:LEU:HA	1.60	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:673:VAL:HG13	3:P:678:ARG:N	2.36	0.41
5:R:213:ASP:OD1	5:R:213:ASP:N	2.54	0.41
5:R:393:LYS:O	5:R:396:ASN:OD1	2.38	0.41
3:P:270:ARG:NE	5:R:449:THR:HG23	2.34	0.41
2:O:496:LYS:HE3	5:R:468:ARG:HG2	2.02	0.41
5:F:429:THR:OG1	6:1:39:DA:H8	2.03	0.41
6:7:50:DT:H3'	6:7:51:DC:H5'	2.01	0.41
1:B:85:LEU:CD2	1:B:130:ILE:HG12	2.51	0.41
2:C:557:ARG:NH2	2:C:608:ALA:HA	2.35	0.41
2:C:989:LEU:HD21	2:C:1000:LEU:CD2	2.51	0.41
3:D:1052:GLU:HG2	3:D:1053:LEU:H	1.86	0.41
3:D:145:VAL:CG2	3:D:146:VAL:N	2.83	0.41
3:D:372:MET:O	3:D:376:LEU:CD1	2.69	0.41
3:D:470:VAL:HG12	3:D:472:LEU:HD23	2.03	0.41
3:D:725:MET:O	3:D:728:SER:OG	2.39	0.41
5:F:551:LEU:HD22	5:F:597:LYS:CE	2.51	0.41
5:F:558:VAL:HG12	5:F:559:LEU:HD23	2.03	0.41
1:G:51:MET:SD	1:G:52:PRO:HD2	2.61	0.41
1:H:100:LEU:HD21	1:H:118:ASP:HB2	2.03	0.41
1:H:193:GLU:O	1:H:194:GLN:HB2	2.21	0.41
2:I:10:ARG:HG2	2:I:10:ARG:O	2.21	0.41
2:I:1225:VAL:HG12	2:I:1226:THR:N	2.35	0.41
2:I:233:ARG:O	2:I:234:ASP:HB2	2.21	0.41
2:I:296:VAL:CG1	2:I:297:VAL:H	2.32	0.41
3:J:832:LYS:HZ1	3:J:1242:ARG:HB3	1.85	0.41
3:J:378:LYS:O	3:J:382:TYR:CD2	2.74	0.41
3:J:662:ALA:HA	3:J:665:GLN:NE2	2.36	0.41
5:L:388:ILE:O	5:L:388:ILE:HG12	2.18	0.41
5:L:551:LEU:CD1	5:L:559:LEU:HD12	2.48	0.41
5:L:593:LYS:HG2	5:L:597:LYS:HE3	2.02	0.41
1:M:44:ARG:HA	1:M:183:ILE:HD13	2.03	0.41
1:N:81:ILE:HG23	1:N:130:ILE:HG22	2.03	0.41
2:O:1017:GLN:NE2	2:O:1021:LEU:HG	2.33	0.41
2:O:1042:LEU:HA	2:O:1042:LEU:HD23	1.83	0.41
2:O:1077:SER:CB	3:P:357:VAL:CG2	2.97	0.41
2:O:202:ARG:H	2:O:369:MET:HE3	1.85	0.41
2:O:551:HIS:HB2	2:O:554:HIS:CE1	2.56	0.41
2:O:68:LEU:HD12	2:O:68:LEU:HA	1.78	0.41
2:O:697:LYS:HZ1	2:O:1178:LYS:HB2	1.86	0.41
3:P:1067:ARG:NH1	3:P:1074:LEU:O	2.54	0.41
3:P:1163:VAL:HG22	3:P:1177:ILE:HA	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:238:ILE:N	3:P:238:ILE:HD13	2.34	0.41
3:P:693:VAL:HG21	3:P:743:MET:CE	2.51	0.41
5:R:573:LEU:HD11	5:R:584:ARG:CA	2.49	0.41
5:R:585:GLU:HG3	7:8:47:DC:C4	2.56	0.41
7:2:27:DA:C1'	7:2:28:DG:H5'	2.51	0.41
6:4:46:DG:H8	6:4:46:DG:H5"	1.84	0.41
7:8:5:DC:C2'	7:8:6:DG:C8	3.04	0.41
2:O:202:ARG:NH2	7:8:7:DC:H3'	2.36	0.41
1:A:71:LYS:O	1:A:74:VAL:HB	2.21	0.41
2:C:1032:LYS:HD3	2:C:1032:LYS:HA	1.99	0.41
2:C:1066:MET:HE2	2:C:1066:MET:HB3	1.66	0.41
2:C:1088:ASP:OD2	2:C:1092:THR:CB	2.69	0.41
2:C:1148:ALA:O	2:C:1151:LEU:HB2	2.21	0.41
2:C:301:TYR:HE1	2:C:333:ILE:HG23	1.75	0.41
2:C:188:PHE:CE2	2:C:436:ARG:HB2	2.55	0.41
2:C:766:ASN:ND2	2:C:767:GLN:N	2.69	0.41
2:C:807:TRP:NE1	2:C:817:LEU:HD11	2.36	0.41
2:C:896:THR:HG23	2:C:898:GLU:CB	2.43	0.41
3:D:1285:VAL:HG13	3:D:1286:LYS:H	1.86	0.41
3:D:528:THR:OG1	3:D:528:THR:O	2.38	0.41
3:D:510:LEU:HD22	3:D:596:LEU:HD12	2.02	0.41
3:D:843:VAL:CB	3:D:897:HIS:O	2.69	0.41
1:H:189:ALA:HA	1:H:199:ASP:HB2	2.03	0.41
2:I:1029:LEU:O	2:I:1031:ALA:N	2.53	0.41
2:I:1142:ARG:NH2	2:I:1169:VAL:HG21	2.36	0.41
2:I:674:ASP:O	3:J:772:TYR:OH	2.35	0.41
3:J:1100:PHE:CD2	3:J:1193:TRP:HA	2.55	0.41
3:J:1130:GLY:O	3:J:1132:LYS:HG3	2.21	0.41
3:J:1251:LYS:HB3	3:J:1251:LYS:HE2	1.83	0.41
3:J:1266:ILE:HD12	3:J:1278:GLU:HB2	2.01	0.41
3:J:339:ARG:CZ	3:J:798:ARG:NH1	2.81	0.41
3:J:514:THR:HG21	3:J:596:LEU:CB	2.51	0.41
3:J:786:THR:HG22	3:J:787:ALA:H	1.86	0.41
5:L:383:ASN:ND2	5:L:386:LEU:HD23	2.35	0.41
3:P:1241:TYR:HB3	3:P:1246:VAL:O	2.20	0.41
3:P:115:TRP:HZ2	3:P:1329:THR:HG22	1.77	0.41
3:P:592:VAL:O	3:P:592:VAL:HG22	2.21	0.41
3:P:609:TYR:HD1	3:P:610:ARG:HG2	1.86	0.41
3:P:845:ALA:O	3:P:881:LYS:O	2.39	0.41
5:R:370:ALA:HB1	5:R:373:ARG:HH22	1.84	0.41
7:2:18:DT:H2"	7:2:19:DA:OP1	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:162:GLU:OE2	1:B:164:ASP:OD2	2.39	0.41
1:B:183:ILE:HB	1:B:205:MET:CE	2.51	0.41
2:C:1281:TYR:OH	3:D:431:ARG:C	2.57	0.41
2:C:46:GLN:C	2:C:51:ALA:HB2	2.41	0.41
2:C:539:THR:H	2:C:542:ARG:HB3	1.86	0.41
2:C:805:MET:HE2	2:C:806:PRO:HD2	2.02	0.41
3:D:139:LEU:HD21	3:D:185:ILE:HG12	2.03	0.41
3:D:112:ALA:C	3:D:238:ILE:HD11	2.36	0.41
3:D:342:LEU:HA	3:D:342:LEU:HD23	1.68	0.41
3:D:431:ARG:HG3	3:D:432:LEU:HD23	2.03	0.41
3:D:473:THR:O	3:D:476:ALA:HB3	2.21	0.41
3:D:709:ARG:O	3:D:710:ASP:CB	2.67	0.41
3:D:835:LEU:HD12	3:D:835:LEU:C	2.42	0.41
3:D:856:ILE:HG22	3:D:858:VAL:HG23	2.02	0.41
5:F:135:ALA:CB	5:F:256:PHE:HB3	2.51	0.41
5:F:551:LEU:HD21	5:F:598:LEU:HD21	2.02	0.41
2:I:840:SER:OG	2:I:1048:LYS:C	2.60	0.41
3:J:1031:VAL:HG12	3:J:1091:PRO:CD	2.51	0.41
3:J:135:ILE:H	3:J:135:ILE:HG13	1.57	0.41
3:J:270:ARG:HB3	3:J:270:ARG:NH1	2.36	0.41
3:J:30:ILE:CG2	3:J:30:ILE:O	2.69	0.41
3:J:682:VAL:HA	3:J:685:ILE:HD12	2.03	0.41
3:J:98:ARG:O	3:J:247:PRO:HD2	2.21	0.41
5:L:237:ALA:O	5:L:238:LYS:HB2	2.21	0.41
2:I:1251:TYR:HB2	5:L:528:LEU:CD1	2.51	0.41
5:L:99:ARG:H	5:L:99:ARG:HG2	1.58	0.41
2:O:228:VAL:HG22	2:O:337:PHE:HB2	2.02	0.41
2:O:188:PHE:CZ	2:O:432:LEU:HD11	2.55	0.41
2:O:709:ALA:O	2:O:712:SER:OG	2.38	0.41
3:P:70:CYS:SG	3:P:71:LEU:N	2.93	0.41
5:R:299:LYS:HA	5:R:302:PHE:CB	2.51	0.41
5:R:456:MET:HE2	5:R:456:MET:HB2	1.89	0.41
5:F:586:ARG:HH12	6:1:13:DC:P	2.44	0.40
2:C:1080:ASN:HB3	2:C:1084:ASP:HB2	2.03	0.40
2:C:255:ILE:HG22	2:C:255:ILE:O	2.20	0.40
2:C:452:ARG:HG2	2:C:453:ILE:N	2.37	0.40
2:C:838:CYS:HB2	2:C:918:LEU:HB2	2.03	0.40
2:C:866:ASP:CG	2:C:867:GLU:H	2.24	0.40
3:D:930:LEU:HD11	3:D:1246:VAL:CG2	2.51	0.40
3:D:930:LEU:HD11	3:D:1246:VAL:HB	2.02	0.40
3:D:423:LEU:HD11	3:D:437:PHE:HB2	2.02	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:C:1314:GLN:HG3	4:E:28:ARG:CZ	2.52	0.40
5:F:426:LYS:HG2	6:1:40:DA:OP2	2.21	0.40
5:F:564:GLY:O	5:F:567:MET:O	2.38	0.40
2:I:1212:LEU:O	2:I:1221:PHE:CD2	2.74	0.40
2:I:149:LEU:CD1	2:I:451:ARG:CB	2.94	0.40
2:I:375:PRO:HA	2:I:376:PRO:HD3	1.96	0.40
2:I:529:ARG:C	2:I:530:ILE:HG13	2.41	0.40
2:I:559:CYS:O	2:I:573:ASN:ND2	2.54	0.40
2:I:785:ASP:HB3	2:I:789:THR:OG1	2.20	0.40
2:I:887:VAL:HG23	2:I:887:VAL:O	2.22	0.40
3:J:1249:ASN:HB3	3:J:1251:LYS:HG2	2.04	0.40
3:J:247:PRO:HA	3:J:250:ARG:CZ	2.52	0.40
3:J:291:ILE:H	3:J:291:ILE:HG13	1.52	0.40
3:J:306:LEU:HG	3:J:307:LEU:N	2.35	0.40
3:J:342:LEU:HA	3:J:342:LEU:HD23	1.85	0.40
3:J:425:ARG:HE	3:J:459:ALA:HB2	1.86	0.40
3:J:519:ASN:CG	3:J:709:ARG:HB2	2.42	0.40
3:J:796:LEU:HA	3:J:799:ARG:HE	1.86	0.40
3:J:83:VAL:CG1	3:J:84:ILE:N	2.83	0.40
1:M:12:ARG:HA	1:N:230:ALA:CB	2.52	0.40
1:N:11:PRO:HB2	1:N:28:LEU:HD11	2.03	0.40
2:O:686:GLN:NE2	2:O:1069:ARG:HG2	2.36	0.40
2:O:1278:LEU:HD11	2:O:1290:MET:HE2	2.03	0.40
2:O:50:GLU:OE2	2:O:73:TYR:CE2	2.74	0.40
2:O:835:GLU:O	2:O:836:LEU:HD23	2.22	0.40
3:P:332:LYS:HG3	3:P:1328:THR:OG1	2.20	0.40
2:O:1288:GLN:OE1	3:P:1356:LEU:HD23	2.21	0.40
3:P:385:LEU:HB3	3:P:391:ALA:HB2	2.03	0.40
3:P:363:LEU:HG	3:P:487:THR:HG22	2.02	0.40
3:P:52:GLU:OE1	3:P:52:GLU:CA	2.68	0.40
3:P:807:LEU:N	3:P:807:LEU:CD1	2.84	0.40
3:P:915:ILE:HG13	3:P:915:ILE:H	1.66	0.40
4:Q:30:MET:HE1	4:Q:49:ILE:HB	2.03	0.40
5:R:137:TYR:CE1	5:R:353:LEU:HD12	2.56	0.40
6:1:59:DG:O6	7:2:3:DG:O6	2.39	0.40
1:A:208:ASN:ND2	1:A:208:ASN:H	2.18	0.40
2:C:1116:HIS:CD2	3:D:641:ILE:CG1	3.03	0.40
2:C:1281:TYR:CE1	3:D:431:ARG:CG	3.03	0.40
2:C:374:GLU:HA	2:C:375:PRO:HD2	1.86	0.40
3:D:1032:SER:O	3:D:1080:ILE:HG22	2.21	0.40
3:D:126:LEU:HD13	3:D:223:LEU:CD1	2.34	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:D:1286:LYS:O	3:D:1289:ASN:HB2	2.22	0.40
3:D:394:ILE:O	3:D:398:LYS:HG2	2.21	0.40
3:D:462:ASP:OD1	3:D:462:ASP:N	2.53	0.40
3:D:677:GLU:O	3:D:681:LYS:HB2	2.20	0.40
3:D:645:VAL:HG23	3:D:700:ASN:HD22	1.85	0.40
3:D:701:LEU:HD12	3:D:701:LEU:HA	1.88	0.40
3:D:807:LEU:HD12	3:D:807:LEU:HA	1.83	0.40
3:D:496:GLY:HA3	3:D:903:LEU:HD21	2.02	0.40
3:D:914:ALA:HB2	3:D:1359:ALA:CB	2.51	0.40
5:F:117:ILE:H	5:F:117:ILE:HG13	1.68	0.40
5:F:231:THR:O	5:F:235:ILE:HG13	2.20	0.40
2:C:375:PRO:CA	5:F:87:VAL:HG21	2.51	0.40
1:G:35:PHE:O	1:G:39:LEU:CG	2.67	0.40
1:G:49:SER:CB	1:H:33:ARG:NH1	2.60	0.40
1:H:69:SER:O	1:H:78:ILE:HG13	2.21	0.40
2:I:1104:PRO:HG3	3:J:725:MET:SD	2.61	0.40
2:I:120:GLN:HG2	2:I:489:PRO:HG3	1.97	0.40
2:I:1272:GLU:OE2	3:J:343:LEU:HD12	2.21	0.40
2:I:1305:TYR:OH	5:L:532:LEU:CG	2.53	0.40
2:I:1323:PHE:O	2:I:1323:PHE:CD1	2.75	0.40
2:I:285:ILE:CG2	2:I:286:GLU:N	2.84	0.40
2:I:461:GLU:O	2:I:464:PHE:HB3	2.21	0.40
2:I:594:VAL:HG22	2:I:599:VAL:HA	2.03	0.40
2:I:725:GLN:HB2	2:I:735:LYS:HG2	2.03	0.40
2:I:970:GLY:HA2	2:I:973:SER:HB2	2.03	0.40
3:J:320:ASN:ND2	3:J:322:ARG:HG2	2.36	0.40
3:J:742:GLY:O	3:J:762:ASN:HB3	2.22	0.40
4:K:30:MET:HE3	4:K:49:ILE:CG2	2.52	0.40
5:L:355:ILE:HA	5:L:358:VAL:HB	2.03	0.40
5:L:600:HIS:CE1	5:L:602:SER:OG	2.75	0.40
1:M:136:GLU:HG2	1:M:137:ASN:N	2.35	0.40
2:O:1021:LEU:HA	2:O:1024:GLU:OE1	2.20	0.40
2:O:1285:TYR:O	2:O:1289:GLU:HG3	2.21	0.40
2:O:302:ILE:H	2:O:302:ILE:HG12	1.47	0.40
2:O:8:LYS:HD3	2:O:1168:GLU:OE1	2.21	0.40
2:O:942:ASP:HB2	2:O:945:ALA:CB	2.51	0.40
3:P:1257:VAL:HA	3:P:1260:MET:CE	2.49	0.40
3:P:141:PHE:CZ	3:P:181:GLY:HA3	2.56	0.40
3:P:244:VAL:HG13	3:P:269:TYR:CE1	2.57	0.40
3:P:252:LEU:C	3:P:252:LEU:HD12	2.41	0.40
3:P:259:ARG:HH12	5:R:502:LYS:CG	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:363:LEU:CA	3:P:450:HIS:CE1	3.04	0.40
3:P:517:CYS:SG	3:P:518:VAL:N	2.94	0.40
3:P:626:TYR:O	3:P:629:PHE:HB2	2.22	0.40
3:P:689:ALA:HA	3:P:692:ARG:HD2	2.03	0.40
5:R:394:TYR:C	5:R:396:ASN:N	2.73	0.40
1:A:208:ASN:O	1:A:210:THR:N	2.54	0.40
1:B:88:LEU:CD1	1:B:128:HIS:CD2	3.04	0.40
2:C:1294:LYS:HE2	3:D:348:ASP:O	2.21	0.40
2:C:690:VAL:CG1	2:C:691:PRO:HD2	2.52	0.40
2:C:667:LEU:HD23	2:C:704:MET:HE2	2.04	0.40
3:D:185:ILE:HG22	3:D:189:LEU:CD1	2.36	0.40
3:D:268:LEU:HD13	3:D:306:LEU:CA	2.29	0.40
2:C:1294:LYS:HE3	3:D:349:TYR:HD2	1.85	0.40
3:D:504:GLN:HB3	3:D:505:ASP:H	1.68	0.40
4:E:12:LYS:HD3	4:E:12:LYS:HA	1.85	0.40
1:H:67:GLU:O	1:H:78:ILE:HB	2.20	0.40
2:I:255:ILE:CG2	2:I:285:ILE:HD13	2.45	0.40
2:I:409:LEU:HD23	2:I:409:LEU:HA	1.90	0.40
2:I:587:LEU:HA	2:I:587:LEU:HD23	1.81	0.40
3:J:1046:ILE:HD12	3:J:1059:LEU:CD2	2.48	0.40
2:I:1254:VAL:HG22	3:J:251:PRO:HG3	2.03	0.40
3:J:373:ALA:CB	3:J:441:LEU:HD21	2.51	0.40
3:J:507:VAL:HG22	3:J:601:ILE:HD12	2.03	0.40
3:J:68:TYR:HA	3:J:92:VAL:HG12	2.01	0.40
3:J:817:HIS:O	3:J:845:ALA:CB	2.69	0.40
5:L:383:ASN:ND2	5:L:386:LEU:CD2	2.85	0.40
1:M:214:GLU:CA	1:M:217:ILE:HD12	2.31	0.40
1:N:145:LYS:HE3	1:N:145:LYS:HB2	1.92	0.40
2:O:1021:LEU:HA	2:O:1021:LEU:HD23	1.94	0.40
2:O:1223:ARG:HA	2:O:1224:PRO:HD3	1.94	0.40
2:O:158:ASP:HB2	2:O:173:ASN:OD1	2.21	0.40
2:O:275:ARG:NH1	2:O:278:GLU:OE1	2.45	0.40
2:O:453:ILE:HD11	2:O:587:LEU:HG	2.04	0.40
2:O:736:VAL:CG1	2:O:737:ASN:N	2.85	0.40
2:O:96:LEU:HD11	2:O:98:VAL:CG2	2.52	0.40
3:P:1035:VAL:HG22	3:P:1115:ILE:HD13	2.02	0.40
3:P:1109:LEU:HD13	3:P:1113:VAL:HG11	2.02	0.40
3:P:115:TRP:O	3:P:119:SER:HB3	2.22	0.40
3:P:825:VAL:O	3:P:827:GLU:N	2.51	0.40
5:R:137:TYR:CD2	5:R:138:PRO:HD2	2.56	0.40
5:R:407:GLU:OE2	5:R:442:SER:HB2	2.19	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:R:443:ILE:HG23	5:R:444:ALA:N	2.36	0.40
5:R:573:LEU:C	5:R:573:LEU:HD12	2.42	0.40
3:P:142:GLU:OE1	5:R:91:ILE:HD12	2.20	0.40
6:1:56:DG:N3	7:2:8:DG:N2	2.70	0.40
6:4:46:DG:H8	6:4:46:DG:H5'	1.86	0.40
7:8:41:DG:H2"	7:8:42:DG:OP2	2.22	0.40
1:B:124:VAL:HG21	1:B:210:THR:OG1	2.20	0.40
2:C:685:MET:HE1	2:C:1073:LYS:HD3	2.03	0.40
2:C:197:ARG:HB3	2:C:200:ARG:HA	2.03	0.40
3:D:1146:GLU:OE2	3:D:1309:ILE:CG2	2.69	0.40
3:D:425:ARG:HB2	3:D:466:MET:HE3	2.03	0.40
3:D:563:LEU:HD21	3:D:586:GLY:CA	2.51	0.40
4:E:30:MET:HB3	4:E:30:MET:HE2	1.82	0.40
4:E:39:VAL:CG1	4:E:40:PRO:N	2.82	0.40
1:G:59:VAL:O	1:G:171:LEU:HD12	2.22	0.40
1:H:9:LEU:HD12	1:H:10:LYS:N	2.36	0.40
2:I:230:PHE:CD1	2:I:292:ILE:HD11	2.57	0.40
2:I:429:MET:HG3	2:I:429:MET:H	1.63	0.40
2:I:668:ILE:HA	2:I:669:PRO:HD3	1.69	0.40
2:I:768:MET:HA	2:I:769:PRO:HD3	1.96	0.40
2:I:812:PHE:CE2	2:I:813:GLU:HG3	2.57	0.40
3:J:1254:GLU:O	3:J:1257:VAL:HB	2.20	0.40
3:J:398:LYS:HE2	5:L:532:LEU:HD23	2.02	0.40
3:J:353:SER:HB3	3:J:447:ILE:CD1	2.52	0.40
3:J:797:THR:HA	3:J:800:LEU:HD12	2.02	0.40
3:J:84:ILE:HG21	3:J:84:ILE:HD13	1.81	0.40
5:L:266:PHE:O	5:L:269:LEU:HB2	2.21	0.40
5:L:491:GLU:HA	5:L:494:ILE:HB	2.02	0.40
1:M:42:ALA:CA	1:N:38:THR:HG21	2.40	0.40
2:O:1086:PRO:HB3	2:O:1221:PHE:HE2	1.86	0.40
2:O:1166:ASP:O	2:O:1170:MET:HG3	2.21	0.40
2:O:122:VAL:HG13	2:O:490:GLN:HB2	2.02	0.40
2:O:92:TYR:HB2	2:O:137:VAL:HB	2.03	0.40
2:O:1243:MET:CG	3:P:372:MET:CE	2.95	0.40
3:P:785:ASP:HB3	3:P:935:PHE:CE1	2.56	0.40
5:R:218:ARG:O	5:R:218:ARG:HD2	2.21	0.40
5:F:425:TYR:CD2	6:1:37:DA:N3	2.90	0.40
6:1:25:DC:O2	7:2:39:DG:N2	2.54	0.40
8:3:13:GTP:O2A	8:3:13:GTP:H8	2.05	0.40
6:4:13:DC:C2'	6:4:14:DT:H72	2.52	0.40
6:4:43:DT:C6	6:4:43:DT:C3'	3.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:47:DC:N4	6:4:48:DA:N6	2.70	0.40
7:5:6:DG:H2"	7:5:7:DC:C6	2.56	0.40
1:A:127:GLN:H	1:A:127:GLN:HG2	1.56	0.40
1:A:156:SER:HA	1:A:159:ILE:HB	2.02	0.40
1:A:43:LEU:O	1:A:47:LEU:HD12	2.21	0.40
1:A:44:ARG:HG3	1:A:183:ILE:HG12	2.03	0.40
1:A:11:PRO:HD3	1:B:227:GLN:OE1	2.21	0.40
2:C:1323:PHE:C	2:C:1323:PHE:CD1	2.95	0.40
2:C:1323:PHE:O	2:C:1327:LEU:HG	2.21	0.40
2:C:367:TYR:OH	2:C:380:ALA:HB1	2.21	0.40
2:C:482:GLY:HA3	2:C:487:LEU:HD11	2.02	0.40
2:C:890:LYS:HG3	2:C:891:GLY:N	2.36	0.40
3:D:1358:PRO:HB3	3:D:1366:HIS:HB3	2.03	0.40
3:D:246:PRO:O	3:D:250:ARG:HG2	2.21	0.40
3:D:537:TYR:CD1	3:D:544:LEU:HG	2.56	0.40
3:D:574:VAL:HG23	3:D:574:VAL:H	1.49	0.40
3:D:58:CYS:O	3:D:62:PHE:HD2	2.05	0.40
3:D:759:ILE:HD11	3:D:771:GLN:HB3	2.01	0.40
1:G:81:ILE:O	1:G:85:LEU:CG	2.63	0.40
2:I:667:LEU:HA	2:I:667:LEU:HD23	1.86	0.40
2:I:724:VAL:HG11	2:I:727:VAL:HG22	2.04	0.40
2:I:77:GLU:HA	2:I:78:PRO:HD3	1.97	0.40
2:I:984:VAL:O	2:I:984:VAL:HG12	2.22	0.40
3:J:1173:ARG:O	3:J:1190:ILE:CB	2.67	0.40
3:J:289:ASP:O	3:J:293:ARG:HG3	2.21	0.40
3:J:328:ALA:HA	3:J:331:ILE:HG13	2.03	0.40
3:J:430:HIS:N	3:J:430:HIS:ND1	2.70	0.40
3:J:613:GLY:O	3:J:617:THR:HG23	2.22	0.40
2:I:550:VAL:CG2	3:J:780:ARG:HD2	2.38	0.40
3:J:886:VAL:HG22	3:J:1258:ARG:CB	2.47	0.40
5:L:132:CYS:SG	5:L:257:LYS:HE3	2.58	0.40
5:L:381:GLU:O	5:L:384:LEU:CG	2.64	0.40
5:L:432:THR:O	5:L:436:ARG:HB2	2.22	0.40
5:L:451:ARG:HH12	6:4:32:DA:P	2.45	0.40
1:M:52:PRO:O	1:M:211:ILE:HD11	2.22	0.40
1:N:88:LEU:HD12	1:N:88:LEU:HA	1.85	0.40
2:O:92:TYR:O	2:O:128:PRO:HA	2.21	0.40
2:O:12:ARG:NH1	2:O:1181:PRO:HB2	2.37	0.40
2:O:766:ASN:HD22	2:O:767:GLN:N	2.19	0.40
3:P:1163:VAL:CG1	3:P:1177:ILE:HA	2.44	0.40
2:O:1288:GLN:NE2	3:P:1355:ARG:HA	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:P:271:ARG:NH1	3:P:316:ILE:HD13	2.36	0.40
3:P:471:PRO:HB2	3:P:476:ALA:CB	2.51	0.40
5:R:572:THR:HB	7:8:45:DG:P	2.62	0.40

All (3) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:4:12:DA:O5'	6:4:60:DC:O5'[2_454]	1.86	0.34
5:F:482:GLU:OE2	2:O:275:ARG:NH2[2_455]	1.99	0.21
3:D:1282:TYR:OH	3:P:710:ASP:OD2[1_655]	2.08	0.12

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
1	A	228/242 (94%)	210 (92%)	15 (7%)	3 (1%)	12 48
1	B	226/242 (93%)	207 (92%)	13 (6%)	6 (3%)	5 31
1	G	228/242 (94%)	211 (92%)	14 (6%)	3 (1%)	12 48
1	H	226/242 (93%)	207 (92%)	17 (8%)	2 (1%)	17 56
1	M	228/242 (94%)	209 (92%)	16 (7%)	3 (1%)	12 48
1	N	226/242 (93%)	207 (92%)	14 (6%)	5 (2%)	6 35
2	C	1339/1342 (100%)	1218 (91%)	98 (7%)	23 (2%)	9 42
2	I	1339/1342 (100%)	1210 (90%)	102 (8%)	27 (2%)	7 38
2	O	1339/1342 (100%)	1222 (91%)	87 (6%)	30 (2%)	6 35
3	D	1360/1407 (97%)	1210 (89%)	122 (9%)	28 (2%)	7 36
3	J	1360/1407 (97%)	1225 (90%)	110 (8%)	25 (2%)	8 40
3	P	1360/1407 (97%)	1208 (89%)	112 (8%)	40 (3%)	4 29

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
4	E	88/90 (98%)	82 (93%)	5 (6%)	1 (1%)	14 52
4	K	88/90 (98%)	83 (94%)	4 (4%)	1 (1%)	14 52
4	Q	88/90 (98%)	81 (92%)	6 (7%)	1 (1%)	14 52
5	F	493/628 (78%)	443 (90%)	34 (7%)	16 (3%)	4 26
5	L	493/628 (78%)	441 (90%)	36 (7%)	16 (3%)	4 26
5	R	493/628 (78%)	441 (90%)	36 (7%)	16 (3%)	4 26
All	All	11202/11853 (94%)	10115 (90%)	841 (8%)	246 (2%)	6 35

All (246) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	209	GLY
1	A	210	THR
2	C	113	THR
2	C	481	LEU
2	C	791	LEU
2	C	808	ASN
2	C	812	PHE
2	C	909	LYS
2	C	1162	SER
3	D	16	GLU
3	D	53	ARG
3	D	77	ARG
3	D	519	ASN
3	D	590	SER
3	D	704	GLU
3	D	850	LYS
3	D	1024	THR
3	D	1114	GLN
3	D	1275	LEU
3	D	1309	ILE
5	F	243	ALA
5	F	296	LYS
5	F	330	LEU
5	F	396	ASN
5	F	447	ALA
5	F	515	GLU
5	F	519	LEU
5	F	581	ASP
1	H	209	GLY

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Mol	Chain	Res	Type
2	I	110	PRO
2	I	341	LEU
2	I	730	SER
2	I	791	LEU
2	I	808	ASN
2	I	812	PHE
2	I	1135	GLN
2	I	1162	SER
3	J	519	ASN
3	J	590	SER
3	J	947	GLU
3	J	1024	THR
3	J	1200	GLU
3	J	1275	LEU
3	J	1309	ILE
3	J	1318	SER
5	L	156	ALA
5	L	296	LYS
5	L	310	GLU
5	L	396	ASN
5	L	515	GLU
5	L	519	LEU
5	L	581	ASP
1	M	164	ASP
1	M	233	ASP
1	N	117	HIS
2	O	110	PRO
2	O	163	LYS
2	O	247	ARG
2	O	293	ALA
2	O	341	LEU
2	O	730	SER
2	O	791	LEU
2	O	808	ASN
2	O	812	PHE
2	O	912	ASP
2	O	1162	SER
3	P	53	ARG
3	P	148	GLU
3	P	174	ASP
3	P	519	ASN
3	P	590	SER

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Mol	Chain	Res	Type
3	P	1097	ALA
3	P	1169	THR
3	P	1200	GLU
3	P	1275	LEU
5	R	243	ALA
5	R	296	LYS
5	R	395	THR
5	R	400	GLN
5	R	519	LEU
5	R	581	ASP
1	B	117	HIS
1	B	118	ASP
1	B	194	GLN
2	C	258	ASN
2	C	546	GLU
2	C	596	ASP
2	C	625	GLU
2	C	730	SER
2	C	912	ASP
2	C	1005	GLU
2	C	1153	ALA
3	D	162	GLU
3	D	174	ASP
3	D	321	LYS
3	D	462	ASP
3	D	769	VAL
3	D	876	SER
3	D	1325	PHE
4	E	4	VAL
5	F	94	THR
5	F	154	GLU
5	F	155	GLU
5	F	166	VAL
5	F	310	GLU
1	G	233	ASP
2	I	163	LYS
2	I	247	ARG
2	I	986	ALA
2	I	1032	LYS
2	I	1159	VAL
3	J	53	ARG
3	J	404	GLU

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Mol	Chain	Res	Type
3	J	428	THR
3	J	708	ASN
3	J	769	VAL
3	J	876	SER
3	J	1097	ALA
3	J	1106	ILE
5	L	91	ILE
5	L	154	GLU
5	L	553	ALA
1	M	93	GLN
1	N	119	GLY
1	N	194	GLN
2	O	313	ALA
2	O	333	ILE
2	O	643	SER
2	O	981	ALA
3	P	49	PHE
3	P	152	THR
3	P	320	ASN
3	P	321	LYS
3	P	462	ASP
3	P	523	GLU
3	P	944	ALA
3	P	1024	THR
3	P	1309	ILE
5	R	154	GLU
5	R	155	GLU
1	B	72	GLU
1	B	93	GLN
2	C	163	LYS
2	C	341	LEU
2	C	1135	GLN
3	D	122	SER
3	D	404	GLU
3	D	966	VAL
5	F	324	LYS
2	I	258	ASN
2	I	856	ASN
2	I	1000	LEU
2	I	1157	GLN
2	I	1187	PHE
3	J	148	GLU

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Mol	Chain	Res	Type
3	J	462	ASP
3	J	962	ASN
3	J	1114	GLN
3	J	1344	LEU
5	L	166	VAL
5	L	447	ALA
2	O	20	GLN
2	O	281	ASP
2	O	1005	GLU
2	O	1135	GLN
3	P	16	GLU
3	P	876	SER
3	P	1166	GLY
3	P	1318	SER
3	P	1325	PHE
5	R	166	VAL
5	R	323	ASN
5	R	478	PRO
2	C	110	PRO
3	D	731	ARG
3	D	1111	ASP
5	F	323	ASN
1	G	210	THR
1	H	117	HIS
2	I	165	HIS
2	I	192	ASP
2	I	655	VAL
2	I	787	PRO
2	I	1107	MET
3	J	122	SER
1	N	209	GLY
2	O	192	ASP
2	O	332	ARG
2	O	481	LEU
2	O	485	ASP
2	O	546	GLU
3	P	769	VAL
3	P	855	ASP
3	P	1104	LYS
3	P	1170	LYS
3	P	1173	ARG
5	R	113	ARG

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Mol	Chain	Res	Type
5	R	238	LYS
5	R	553	ALA
2	C	787	PRO
2	C	981	ALA
3	D	1106	ILE
3	D	1200	GLU
5	F	91	ILE
2	I	1030	GLU
5	L	238	LYS
2	O	214	ASN
2	O	340	ASP
2	O	1040	ASP
3	P	428	THR
3	P	520	ALA
3	P	825	VAL
3	P	826	ILE
2	C	165	HIS
2	C	563	THR
3	D	619	ILE
3	D	1268	ASN
2	I	45	GLY
2	I	1036	ILE
3	J	1124	ILE
1	N	118	ASP
2	O	669	PRO
3	P	122	SER
3	P	846	GLU
3	P	1209	VAL
4	Q	4	VAL
5	R	91	ILE
4	K	4	VAL
3	P	1185	PRO
3	P	1210	ILE
2	I	993	PRO
3	J	333	GLY
5	L	582	VAL
3	P	707	ILE
5	R	324	LYS
3	J	966	VAL
5	L	324	LYS
5	L	600	HIS
3	P	1152	GLU

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Mol	Chain	Res	Type
3	P	1171	GLY
1	A	19	VAL
1	B	209	GLY
2	O	805	MET
3	D	333	GLY
1	G	167	PRO
2	O	112	GLY

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 X-ray entries followed by that with respect to entries of similar resolution.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
1	A	198/208 (95%)	171 (86%)	27 (14%)	3 17
1	B	196/208 (94%)	172 (88%)	24 (12%)	5 20
1	G	198/208 (95%)	169 (85%)	29 (15%)	3 16
1	H	196/208 (94%)	171 (87%)	25 (13%)	4 18
1	M	198/208 (95%)	171 (86%)	27 (14%)	3 17
1	N	196/208 (94%)	167 (85%)	29 (15%)	3 15
2	C	1156/1157 (100%)	1016 (88%)	140 (12%)	5 20
2	I	1156/1157 (100%)	1013 (88%)	143 (12%)	4 19
2	O	1156/1157 (100%)	1019 (88%)	137 (12%)	5 20
3	D	1135/1168 (97%)	968 (85%)	167 (15%)	3 15
3	J	1135/1168 (97%)	986 (87%)	149 (13%)	4 18
3	P	1135/1168 (97%)	989 (87%)	146 (13%)	4 18
4	E	74/74 (100%)	63 (85%)	11 (15%)	3 15
4	K	74/74 (100%)	70 (95%)	4 (5%)	22 47
4	Q	74/74 (100%)	68 (92%)	6 (8%)	11 35
5	F	439/554 (79%)	388 (88%)	51 (12%)	5 21
5	L	439/554 (79%)	382 (87%)	57 (13%)	4 18
5	R	439/554 (79%)	393 (90%)	46 (10%)	7 24

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
All	All	9594/10107 (95%)	8376 (87%)	1218 (13%)	4 19

All (1218) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	16	ILE
1	A	28	LEU
1	A	29	GLU
1	A	47	LEU
1	A	61	ILE
1	A	65	LEU
1	A	80	GLU
1	A	88	LEU
1	A	90	VAL
1	A	98	VAL
1	A	100	LEU
1	A	123	ILE
1	A	131	CYS
1	A	134	THR
1	A	140	ILE
1	A	159	ILE
1	A	163	GLU
1	A	168	ILE
1	A	176	CYS
1	A	182	ARG
1	A	195	ARG
1	A	208	ASN
1	A	215	GLU
1	A	228	LEU
1	A	231	PHE
1	A	232	VAL
1	A	233	ASP
1	B	12	ARG
1	B	28	LEU
1	B	47	LEU
1	B	61	ILE
1	B	74	VAL
1	B	88	LEU
1	B	111	THR
1	B	124	VAL
1	B	142	MET
1	B	160	HIS

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Mol	Chain	Res	Type
1	B	165	GLU
1	B	166	ARG
1	B	170	ARG
1	B	172	LEU
1	B	182	ARG
1	B	183	ILE
1	B	187	VAL
1	B	195	ARG
1	B	196	THR
1	B	210	THR
1	B	224	LEU
1	B	226	GLU
1	B	229	GLU
1	B	233	ASP
2	C	23	ASP
2	C	30	ILE
2	C	34	SER
2	C	75	LEU
2	C	111	GLU
2	C	116	ASP
2	C	141	THR
2	C	146	VAL
2	C	147	SER
2	C	155	VAL
2	C	171	LEU
2	C	182	SER
2	C	189	ASP
2	C	202	ARG
2	C	203	LYS
2	C	209	ILE
2	C	216	THR
2	C	235	ASN
2	C	254	ASP
2	C	255	ILE
2	C	269	ILE
2	C	270	THR
2	C	272	ARG
2	C	277	LEU
2	C	281	ASP
2	C	284	LEU
2	C	290	GLU
2	C	296	VAL

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Mol	Chain	Res	Type
2	C	322	LEU
2	C	327	GLN
2	C	332	ARG
2	C	340	ASP
2	C	358	ASP
2	C	360	LEU
2	C	365	GLU
2	C	369	MET
2	C	382	GLU
2	C	383	SER
2	C	390	PHE
2	C	392	GLU
2	C	393	ASP
2	C	396	ASP
2	C	404	LYS
2	C	407	ARG
2	C	413	GLU
2	C	422	LYS
2	C	432	LEU
2	C	433	ILE
2	C	437	ASN
2	C	442	VAL
2	C	471	VAL
2	C	472	GLU
2	C	480	SER
2	C	483	ASP
2	C	499	SER
2	C	512	SER
2	C	521	LEU
2	C	530	ILE
2	C	538	LEU
2	C	539	THR
2	C	547	VAL
2	C	558	VAL
2	C	575	LEU
2	C	576	SER
2	C	598	VAL
2	C	603	ILE
2	C	622	ASN
2	C	623	LEU
2	C	633	LEU
2	C	634	VAL

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Mol	Chain	Res	Type
2	C	635	THR
2	C	646	SER
2	C	657	THR
2	C	661	VAL
2	C	672	GLU
2	C	692	THR
2	C	714	VAL
2	C	750	ILE
2	C	757	THR
2	C	764	CYS
2	C	766	ASN
2	C	772	SER
2	C	777	VAL
2	C	783	LEU
2	C	788	SER
2	C	791	LEU
2	C	799	ASN
2	C	805	MET
2	C	814	ASP
2	C	815	SER
2	C	817	LEU
2	C	831	ILE
2	C	843	THR
2	C	859	GLU
2	C	893	THR
2	C	916	SER
2	C	925	SER
2	C	929	ILE
2	C	933	VAL
2	C	935	THR
2	C	940	GLU
2	C	941	LYS
2	C	987	GLU
2	C	991	LYS
2	C	1029	LEU
2	C	1040	ASP
2	C	1049	ILE
2	C	1059	ARG
2	C	1060	ILE
2	C	1066	MET
2	C	1088	ASP
2	C	1090	ASN

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Mol	Chain	Res	Type
2	C	1092	THR
2	C	1094	VAL
2	C	1098	LEU
2	C	1108	ASN
2	C	1126	ASP
2	C	1155	VAL
2	C	1159	VAL
2	C	1182	ILE
2	C	1186	VAL
2	C	1200	LYS
2	C	1210	ILE
2	C	1212	LEU
2	C	1223	ARG
2	C	1227	VAL
2	C	1246	ARG
2	C	1254	VAL
2	C	1262	LYS
2	C	1265	PHE
2	C	1268	GLN
2	C	1273	MET
2	C	1286	THR
2	C	1287	LEU
2	C	1290	MET
2	C	1296	ASP
2	C	1299	ASN
2	C	1302	THR
2	C	1304	MET
2	C	1337	ILE
3	D	16	GLU
3	D	22	ILE
3	D	28	ASP
3	D	29	MET
3	D	33	TRP
3	D	54	ASP
3	D	71	LEU
3	D	81	ARG
3	D	83	VAL
3	D	93	THR
3	D	99	ARG
3	D	107	LEU
3	D	111	THR
3	D	124	ILE

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Mol	Chain	Res	Type
3	D	126	LEU
3	D	129	ASP
3	D	130	MET
3	D	133	ARG
3	D	135	ILE
3	D	159	ILE
3	D	179	LYS
3	D	185	ILE
3	D	192	MET
3	D	194	LEU
3	D	195	GLU
3	D	208	THR
3	D	212	THR
3	D	224	LEU
3	D	225	GLU
3	D	238	ILE
3	D	255	LEU
3	D	259	ARG
3	D	262	THR
3	D	264	ASP
3	D	279	LEU
3	D	283	LEU
3	D	290	ILE
3	D	306	LEU
3	D	339	ARG
3	D	350	SER
3	D	353	SER
3	D	357	VAL
3	D	362	ARG
3	D	363	LEU
3	D	371	LYS
3	D	374	LEU
3	D	384	LYS
3	D	387	LEU
3	D	394	ILE
3	D	398	LYS
3	D	407	VAL
3	D	419	HIS
3	D	422	LEU
3	D	423	LEU
3	D	429	LEU
3	D	453	VAL

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Mol	Chain	Res	Type
3	D	468	VAL
3	D	470	VAL
3	D	485	MET
3	D	490	ILE
3	D	491	LEU
3	D	492	SER
3	D	495	ASN
3	D	500	ILE
3	D	515	ARG
3	D	519	ASN
3	D	536	LEU
3	D	541	LEU
3	D	548	VAL
3	D	560	ASN
3	D	572	THR
3	D	591	ILE
3	D	592	VAL
3	D	601	ILE
3	D	607	THR
3	D	614	LEU
3	D	627	THR
3	D	642	ASP
3	D	650	LYS
3	D	673	VAL
3	D	680	ASN
3	D	684	ASP
3	D	693	VAL
3	D	703	THR
3	D	715	LYS
3	D	722	ILE
3	D	737	ILE
3	D	747	MET
3	D	760	THR
3	D	775	SER
3	D	783	LEU
3	D	786	THR
3	D	788	LEU
3	D	796	LEU
3	D	802	ASP
3	D	805	GLN
3	D	806	ASP
3	D	807	LEU

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Mol	Chain	Res	Type
3	D	809	VAL
3	D	812	ASP
3	D	814	CYS
3	D	816	THR
3	D	820	ILE
3	D	825	VAL
3	D	833	GLU
3	D	835	LEU
3	D	836	ARG
3	D	838	ARG
3	D	849	LEU
3	D	853	THR
3	D	855	ASP
3	D	882	VAL
3	D	889	ASP
3	D	891	ASP
3	D	903	LEU
3	D	909	ILE
3	D	911	LYS
3	D	915	ILE
3	D	918	ILE
3	D	922	SER
3	D	928	THR
3	D	934	THR
3	D	957	SER
3	D	958	ILE
3	D	1039	ASP
3	D	1057	SER
3	D	1058	SER
3	D	1064	SER
3	D	1066	GLU
3	D	1075	ARG
3	D	1082	ASP
3	D	1094	ASP
3	D	1134	ILE
3	D	1138	LEU
3	D	1144	LEU
3	D	1151	LYS
3	D	1164	SER
3	D	1167	LYS
3	D	1175	LEU
3	D	1184	ASP

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Mol	Chain	Res	Type
3	D	1196	LEU
3	D	1197	ASN
3	D	1211	SER
3	D	1219	ASP
3	D	1226	VAL
3	D	1229	VAL
3	D	1230	THR
3	D	1233	ILE
3	D	1250	ASP
3	D	1253	ILE
3	D	1259	GLN
3	D	1261	LEU
3	D	1265	THR
3	D	1272	SER
3	D	1286	LYS
3	D	1301	THR
3	D	1305	ASP
3	D	1307	LEU
3	D	1318	SER
3	D	1333	THR
3	D	1341	ARG
3	D	1344	LEU
3	D	1356	LEU
3	D	1357	ILE
3	D	1366	HIS
3	D	1370	MET
3	D	1371	ARG
4	E	4	VAL
4	E	6	VAL
4	E	13	ILE
4	E	25	ARG
4	E	30	MET
4	E	36	ASP
4	E	43	ASN
4	E	45	LYS
4	E	51	LEU
4	E	65	ASP
4	E	71	GLU
5	F	83	VAL
5	F	89	SER
5	F	90	GLU
5	F	91	ILE

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Mol	Chain	Res	Type
5	F	93	ARG
5	F	105	MET
5	F	109	GLU
5	F	110	LEU
5	F	218	ARG
5	F	264	LYS
5	F	272	SER
5	F	291	CYS
5	F	294	GLN
5	F	306	PHE
5	F	309	ASN
5	F	313	ASP
5	F	327	SER
5	F	330	LEU
5	F	334	SER
5	F	344	LEU
5	F	359	LYS
5	F	386	LEU
5	F	387	VAL
5	F	388	ILE
5	F	400	GLN
5	F	417	ASP
5	F	423	ARG
5	F	441	ARG
5	F	450	ILE
5	F	454	VAL
5	F	461	ASN
5	F	463	LEU
5	F	471	LEU
5	F	474	MET
5	F	487	MET
5	F	492	ASP
5	F	502	LYS
5	F	505	ILE
5	F	506	SER
5	F	515	GLU
5	F	521	ASP
5	F	522	PHE
5	F	533	ASP
5	F	548	LEU
5	F	552	THR
5	F	569	THR

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Mol	Chain	Res	Type
5	F	596	ARG
5	F	600	HIS
5	F	606	VAL
5	F	609	SER
5	F	611	LEU
1	G	6	THR
1	G	9	LEU
1	G	16	ILE
1	G	28	LEU
1	G	61	ILE
1	G	81	ILE
1	G	83	LEU
1	G	88	LEU
1	G	90	VAL
1	G	103	ASN
1	G	131	CYS
1	G	140	ILE
1	G	142	MET
1	G	150	ARG
1	G	161	SER
1	G	163	GLU
1	G	168	ILE
1	G	171	LEU
1	G	176	CYS
1	G	191	ARG
1	G	196	THR
1	G	197	ASP
1	G	199	ASP
1	G	207	THR
1	G	211	ILE
1	G	215	GLU
1	G	228	LEU
1	G	234	LEU
1	G	235	ARG
1	H	12	ARG
1	H	16	ILE
1	H	20	SER
1	H	28	LEU
1	H	41	ASN
1	H	61	ILE
1	H	77	ASP
1	H	90	VAL

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Mol	Chain	Res	Type
1	H	92	VAL
1	H	111	THR
1	H	118	ASP
1	H	130	ILE
1	H	131	CYS
1	H	137	ASN
1	H	148	ARG
1	H	173	VAL
1	H	176	CYS
1	H	183	ILE
1	H	187	VAL
1	H	195	ARG
1	H	196	THR
1	H	198	LEU
1	H	212	ASP
1	H	217	ILE
1	H	231	PHE
2	I	24	VAL
2	I	36	GLN
2	I	44	GLU
2	I	46	GLN
2	I	63	SER
2	I	72	SER
2	I	81	ASP
2	I	88	ARG
2	I	114	VAL
2	I	117	ILE
2	I	119	GLU
2	I	124	MET
2	I	141	THR
2	I	147	SER
2	I	155	VAL
2	I	158	ASP
2	I	159	SER
2	I	161	LYS
2	I	176	ILE
2	I	182	SER
2	I	188	PHE
2	I	202	ARG
2	I	207	THR
2	I	209	ILE
2	I	216	THR

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Mol	Chain	Res	Type
2	I	218	GLU
2	I	220	ILE
2	I	275	ARG
2	I	280	ASP
2	I	292	ILE
2	I	297	VAL
2	I	300	ASP
2	I	309	LEU
2	I	319	LEU
2	I	320	ASP
2	I	332	ARG
2	I	342	ASP
2	I	369	MET
2	I	390	PHE
2	I	391	SER
2	I	393	ASP
2	I	409	LEU
2	I	422	LYS
2	I	423	ASP
2	I	432	LEU
2	I	455	SER
2	I	459	MET
2	I	468	LEU
2	I	477	GLU
2	I	483	ASP
2	I	484	LEU
2	I	496	LYS
2	I	499	SER
2	I	525	THR
2	I	528	ARG
2	I	538	LEU
2	I	550	VAL
2	I	558	VAL
2	I	563	THR
2	I	572	ILE
2	I	576	SER
2	I	588	GLU
2	I	589	THR
2	I	595	THR
2	I	596	ASP
2	I	603	ILE
2	I	618	GLN

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Mol	Chain	Res	Type
2	I	632	ASP
2	I	634	VAL
2	I	635	THR
2	I	641	GLU
2	I	646	SER
2	I	662	SER
2	I	690	VAL
2	I	692	THR
2	I	714	VAL
2	I	727	VAL
2	I	740	GLU
2	I	745	GLU
2	I	750	ILE
2	I	757	THR
2	I	764	CYS
2	I	766	ASN
2	I	772	SER
2	I	788	SER
2	I	791	LEU
2	I	799	ASN
2	I	800	MET
2	I	805	MET
2	I	815	SER
2	I	817	LEU
2	I	839	VAL
2	I	841	ARG
2	I	843	THR
2	I	844	LYS
2	I	856	ASN
2	I	873	ILE
2	I	893	THR
2	I	894	GLN
2	I	901	LEU
2	I	911	SER
2	I	916	SER
2	I	925	SER
2	I	931	VAL
2	I	935	THR
2	I	940	GLU
2	I	941	LYS
2	I	988	LYS
2	I	1004	ASP

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Mol	Chain	Res	Type
2	I	1021	LEU
2	I	1040	ASP
2	I	1041	ASP
2	I	1054	LEU
2	I	1060	ILE
2	I	1072	ASN
2	I	1079	ILE
2	I	1085	MET
2	I	1088	ASP
2	I	1092	THR
2	I	1108	ASN
2	I	1117	LEU
2	I	1122	LYS
2	I	1145	ILE
2	I	1177	ARG
2	I	1204	LEU
2	I	1212	LEU
2	I	1222	GLU
2	I	1223	ARG
2	I	1227	VAL
2	I	1232	MET
2	I	1238	LEU
2	I	1254	VAL
2	I	1265	PHE
2	I	1286	THR
2	I	1287	LEU
2	I	1292	THR
2	I	1293	VAL
2	I	1295	SER
2	I	1296	ASP
2	I	1299	ASN
2	I	1301	ARG
2	I	1302	THR
2	I	1324	ASN
3	J	28	ASP
3	J	29	MET
3	J	48	THR
3	J	58	CYS
3	J	76	LYS
3	J	78	LEU
3	J	84	ILE
3	J	86	GLU

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Mol	Chain	Res	Type
3	J	93	THR
3	J	111	THR
3	J	115	TRP
3	J	126	LEU
3	J	130	MET
3	J	133	ARG
3	J	145	VAL
3	J	151	MET
3	J	160	LEU
3	J	177	ASP
3	J	183	GLU
3	J	185	ILE
3	J	194	LEU
3	J	195	GLU
3	J	216	LYS
3	J	221	ILE
3	J	222	LYS
3	J	233	LYS
3	J	235	GLU
3	J	238	ILE
3	J	252	LEU
3	J	256	ASP
3	J	259	ARG
3	J	262	THR
3	J	289	ASP
3	J	291	ILE
3	J	294	ASN
3	J	299	LEU
3	J	306	LEU
3	J	314	ARG
3	J	331	ILE
3	J	345	LYS
3	J	347	VAL
3	J	353	SER
3	J	356	THR
3	J	357	VAL
3	J	372	MET
3	J	376	LEU
3	J	385	LEU
3	J	394	ILE
3	J	395	LYS
3	J	423	LEU

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Mol	Chain	Res	Type
3	J	429	LEU
3	J	443	GLU
3	J	447	ILE
3	J	465	GLN
3	J	490	ILE
3	J	499	ILE
3	J	503	SER
3	J	504	GLN
3	J	513	MET
3	J	526	VAL
3	J	535	ARG
3	J	554	GLU
3	J	560	ASN
3	J	563	LEU
3	J	568	SER
3	J	572	THR
3	J	591	ILE
3	J	592	VAL
3	J	594	GLN
3	J	599	LYS
3	J	605	LEU
3	J	607	THR
3	J	609	TYR
3	J	622	ASP
3	J	627	THR
3	J	645	VAL
3	J	674	THR
3	J	684	ASP
3	J	691	ASP
3	J	692	ARG
3	J	699	ASP
3	J	703	THR
3	J	704	GLU
3	J	721	SER
3	J	736	GLN
3	J	746	LEU
3	J	747	MET
3	J	753	SER
3	J	769	VAL
3	J	770	LEU
3	J	775	SER
3	J	783	LEU

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Mol	Chain	Res	Type
3	J	786	THR
3	J	796	LEU
3	J	802	ASP
3	J	806	ASP
3	J	807	LEU
3	J	812	ASP
3	J	821	MET
3	J	825	VAL
3	J	826	ILE
3	J	835	LEU
3	J	843	VAL
3	J	855	ASP
3	J	866	GLU
3	J	878	ASP
3	J	882	VAL
3	J	891	ASP
3	J	895	CYS
3	J	908	ILE
3	J	909	ILE
3	J	911	LYS
3	J	928	THR
3	J	931	THR
3	J	957	SER
3	J	958	ILE
3	J	967	VAL
3	J	984	LEU
3	J	1038	THR
3	J	1039	ASP
3	J	1098	GLN
3	J	1149	ARG
3	J	1155	ILE
3	J	1164	SER
3	J	1170	LYS
3	J	1173	ARG
3	J	1177	ILE
3	J	1184	ASP
3	J	1189	MET
3	J	1203	ARG
3	J	1204	VAL
3	J	1208	ASP
3	J	1229	VAL
3	J	1230	THR

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Mol	Chain	Res	Type
3	J	1243	LEU
3	J	1250	ASP
3	J	1256	ILE
3	J	1262	ARG
3	J	1268	ASN
3	J	1271	SER
3	J	1318	SER
3	J	1328	THR
3	J	1333	THR
3	J	1356	LEU
3	J	1357	ILE
3	J	1361	THR
3	J	1366	HIS
3	J	1370	MET
3	J	1371	ARG
4	K	6	VAL
4	K	21	LEU
4	K	43	ASN
4	K	62	GLN
5	L	89	SER
5	L	91	ILE
5	L	105	MET
5	L	109	GLU
5	L	110	LEU
5	L	133	SER
5	L	141	ILE
5	L	149	ASP
5	L	155	GLU
5	L	163	THR
5	L	230	VAL
5	L	254	GLU
5	L	291	CYS
5	L	294	GLN
5	L	295	CYS
5	L	300	LYS
5	L	309	ASN
5	L	327	SER
5	L	332	ASP
5	L	333	VAL
5	L	334	SER
5	L	344	LEU
5	L	353	LEU

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Mol	Chain	Res	Type
5	L	354	THR
5	L	364	ARG
5	L	388	ILE
5	L	397	ARG
5	L	402	LEU
5	L	404	LEU
5	L	423	ARG
5	L	436	ARG
5	L	449	THR
5	L	450	ILE
5	L	451	ARG
5	L	455	HIS
5	L	458	GLU
5	L	461	ASN
5	L	476	ARG
5	L	483	LEU
5	L	491	GLU
5	L	498	LEU
5	L	499	LYS
5	L	521	ASP
5	L	523	ILE
5	L	530	LEU
5	L	532	LEU
5	L	552	THR
5	L	568	ASN
5	L	573	LEU
5	L	587	ILE
5	L	588	ARG
5	L	596	ARG
5	L	600	HIS
5	L	602	SER
5	L	606	VAL
5	L	609	SER
5	L	611	LEU
1	M	6	THR
1	M	9	LEU
1	M	27	THR
1	M	28	LEU
1	M	39	LEU
1	M	46	ILE
1	M	65	LEU
1	M	90	VAL

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Mol	Chain	Res	Type
1	M	98	VAL
1	M	103	ASN
1	M	105	SER
1	M	107	ILE
1	M	129	VAL
1	M	131	CYS
1	M	150	ARG
1	M	158	ARG
1	M	159	ILE
1	M	162	GLU
1	M	177	TYR
1	M	183	ILE
1	M	194	GLN
1	M	197	ASP
1	M	205	MET
1	M	206	GLU
1	M	224	LEU
1	M	228	LEU
1	M	233	ASP
1	N	12	ARG
1	N	13	LEU
1	N	16	ILE
1	N	28	LEU
1	N	39	LEU
1	N	41	ASN
1	N	68	TYR
1	N	79	LEU
1	N	88	LEU
1	N	90	VAL
1	N	107	ILE
1	N	111	THR
1	N	120	ASP
1	N	131	CYS
1	N	134	THR
1	N	140	ILE
1	N	150	ARG
1	N	163	GLU
1	N	168	ILE
1	N	170	ARG
1	N	174	ASP
1	N	192	VAL
1	N	196	THR

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Mol	Chain	Res	Type
1	N	198	LEU
1	N	199	ASP
1	N	222	THR
1	N	228	LEU
1	N	231	PHE
1	N	233	ASP
2	O	4	SER
2	O	12	ARG
2	O	20	GLN
2	O	42	ASP
2	O	46	GLN
2	O	49	LEU
2	O	82	VAL
2	O	114	VAL
2	O	117	ILE
2	O	124	MET
2	O	141	THR
2	O	147	SER
2	O	157	PHE
2	O	161	LYS
2	O	167	SER
2	O	182	SER
2	O	186	PHE
2	O	191	LYS
2	O	202	ARG
2	O	209	ILE
2	O	216	THR
2	O	218	GLU
2	O	241	LEU
2	O	252	SER
2	O	260	LYS
2	O	261	VAL
2	O	262	TYR
2	O	270	THR
2	O	297	VAL
2	O	302	ILE
2	O	304	GLU
2	O	306	THR
2	O	320	ASP
2	O	358	ASP
2	O	378	ARG
2	O	384	LEU

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Mol	Chain	Res	Type
2	O	391	SER
2	O	403	MET
2	O	408	SER
2	O	412	GLU
2	O	414	ILE
2	O	432	LEU
2	O	433	ILE
2	O	437	ASN
2	O	443	ASP
2	O	446	ASP
2	O	448	LEU
2	O	453	ILE
2	O	455	SER
2	O	459	MET
2	O	470	ARG
2	O	472	GLU
2	O	481	LEU
2	O	483	ASP
2	O	499	SER
2	O	528	ARG
2	O	530	ILE
2	O	547	VAL
2	O	549	ASP
2	O	550	VAL
2	O	561	ILE
2	O	565	GLU
2	O	569	ILE
2	O	576	SER
2	O	583	GLU
2	O	603	ILE
2	O	609	ILE
2	O	626	GLU
2	O	632	ASP
2	O	635	THR
2	O	637	ARG
2	O	638	SER
2	O	639	LYS
2	O	647	ARG
2	O	657	THR
2	O	661	VAL
2	O	662	SER
2	O	663	VAL

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Mol	Chain	Res	Type
2	O	667	LEU
2	O	690	VAL
2	O	692	THR
2	O	700	VAL
2	O	733	VAL
2	O	734	ILE
2	O	739	ASP
2	O	764	CYS
2	O	766	ASN
2	O	772	SER
2	O	777	VAL
2	O	779	ARG
2	O	782	VAL
2	O	788	SER
2	O	790	ASP
2	O	799	ASN
2	O	814	ASP
2	O	815	SER
2	O	823	VAL
2	O	843	THR
2	O	844	LYS
2	O	854	ILE
2	O	893	THR
2	O	911	SER
2	O	916	SER
2	O	929	ILE
2	O	935	THR
2	O	1000	LEU
2	O	1019	ASP
2	O	1024	GLU
2	O	1052	VAL
2	O	1057	LYS
2	O	1061	GLN
2	O	1083	GLU
2	O	1085	MET
2	O	1088	ASP
2	O	1092	THR
2	O	1094	VAL
2	O	1098	LEU
2	O	1108	ASN
2	O	1115	THR
2	O	1166	ASP

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Mol	Chain	Res	Type
2	O	1177	ARG
2	O	1186	VAL
2	O	1201	LEU
2	O	1226	THR
2	O	1235	LEU
2	O	1238	LEU
2	O	1240	ASP
2	O	1252	SER
2	O	1255	THR
2	O	1270	PHE
2	O	1273	MET
2	O	1286	THR
2	O	1296	ASP
2	O	1299	ASN
2	O	1302	THR
2	O	1319	MET
2	O	1337	ILE
3	P	15	GLU
3	P	18	ASP
3	P	20	ILE
3	P	24	LEU
3	P	32	SER
3	P	42	GLU
3	P	58	CYS
3	P	70	CYS
3	P	84	ILE
3	P	93	THR
3	P	111	THR
3	P	129	ASP
3	P	130	MET
3	P	159	ILE
3	P	166	LEU
3	P	177	ASP
3	P	180	MET
3	P	185	ILE
3	P	195	GLU
3	P	208	THR
3	P	209	ASN
3	P	211	GLU
3	P	212	THR
3	P	239	LEU
3	P	249	LEU

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Mol	Chain	Res	Type
3	P	255	LEU
3	P	256	ASP
3	P	259	ARG
3	P	289	ASP
3	P	306	LEU
3	P	312	ARG
3	P	322	ARG
3	P	341	ASN
3	P	345	LYS
3	P	346	ARG
3	P	350	SER
3	P	353	SER
3	P	357	VAL
3	P	374	LEU
3	P	394	ILE
3	P	407	VAL
3	P	416	ILE
3	P	417	ARG
3	P	421	VAL
3	P	428	THR
3	P	431	ARG
3	P	442	ILE
3	P	443	GLU
3	P	478	LEU
3	P	495	ASN
3	P	499	ILE
3	P	500	ILE
3	P	503	SER
3	P	505	ASP
3	P	506	VAL
3	P	508	LEU
3	P	519	ASN
3	P	526	VAL
3	P	528	THR
3	P	536	LEU
3	P	543	SER
3	P	568	SER
3	P	571	ASP
3	P	599	LYS
3	P	607	THR
3	P	608	CYS
3	P	627	THR

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Mol	Chain	Res	Type
3	P	639	VAL
3	P	641	ILE
3	P	645	VAL
3	P	646	ILE
3	P	649	LYS
3	P	658	GLU
3	P	672	LEU
3	P	674	THR
3	P	692	ARG
3	P	693	VAL
3	P	700	ASN
3	P	701	LEU
3	P	703	THR
3	P	704	GLU
3	P	707	ILE
3	P	718	SER
3	P	736	GLN
3	P	737	ILE
3	P	747	MET
3	P	770	LEU
3	P	775	SER
3	P	783	LEU
3	P	786	THR
3	P	788	LEU
3	P	796	LEU
3	P	797	THR
3	P	802	ASP
3	P	806	ASP
3	P	812	ASP
3	P	814	CYS
3	P	816	THR
3	P	837	ASP
3	P	847	ASP
3	P	848	VAL
3	P	849	LEU
3	P	853	THR
3	P	855	ASP
3	P	867	GLN
3	P	878	ASP
3	P	884	SER
3	P	891	ASP
3	P	895	CYS

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Mol	Chain	Res	Type
3	P	908	ILE
3	P	918	ILE
3	P	922	SER
3	P	928	THR
3	P	932	MET
3	P	934	THR
3	P	935	PHE
3	P	937	ILE
3	P	949	SER
3	P	957	SER
3	P	985	ILE
3	P	1021	ASP
3	P	1031	VAL
3	P	1032	SER
3	P	1064	SER
3	P	1094	ASP
3	P	1098	GLN
3	P	1134	ILE
3	P	1138	LEU
3	P	1143	ASP
3	P	1159	ILE
3	P	1164	SER
3	P	1212	ASP
3	P	1221	LEU
3	P	1226	VAL
3	P	1230	THR
3	P	1250	ASP
3	P	1272	SER
3	P	1285	VAL
3	P	1293	GLU
3	P	1305	ASP
3	P	1307	LEU
3	P	1318	SER
3	P	1333	THR
3	P	1353	VAL
3	P	1356	LEU
3	P	1361	THR
4	Q	6	VAL
4	Q	8	ASP
4	Q	28	ARG
4	Q	43	ASN
4	Q	69	ARG

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Mol	Chain	Res	Type
4	Q	70	GLN
5	R	84	LEU
5	R	85	SER
5	R	89	SER
5	R	91	ILE
5	R	99	ARG
5	R	105	MET
5	R	110	LEU
5	R	133	SER
5	R	215	GLU
5	R	230	VAL
5	R	273	MET
5	R	291	CYS
5	R	306	PHE
5	R	309	ASN
5	R	322	MET
5	R	327	SER
5	R	332	ASP
5	R	333	VAL
5	R	334	SER
5	R	343	LYS
5	R	344	LEU
5	R	349	GLU
5	R	353	LEU
5	R	354	THR
5	R	355	ILE
5	R	388	ILE
5	R	402	LEU
5	R	403	ASP
5	R	423	ARG
5	R	441	ARG
5	R	449	THR
5	R	451	ARG
5	R	454	VAL
5	R	459	THR
5	R	461	ASN
5	R	493	LYS
5	R	506	SER
5	R	513	ASP
5	R	515	GLU
5	R	524	GLU
5	R	533	ASP

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Mol	Chain	Res	Type
5	R	540	LEU
5	R	561	MET
5	R	568	ASN
5	R	584	ARG
5	R	609	SER

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (152) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	41	ASN
1	A	128	HIS
1	A	132	HIS
1	A	208	ASN
1	A	227	GLN
1	B	18	GLN
1	B	23	HIS
1	B	37	HIS
1	B	75	GLN
1	B	84	ASN
1	B	147	GLN
1	B	194	GLN
2	C	46	GLN
2	C	150	HIS
2	C	314	ASN
2	C	330	HIS
2	C	406	ASN
2	C	494	ASN
2	C	568	ASN
2	C	573	ASN
2	C	618	GLN
2	C	677	ASN
2	C	688	GLN
2	C	766	ASN
2	C	824	GLN
2	C	856	ASN
2	C	894	GLN
2	C	1116	HIS
2	C	1209	GLN
2	C	1220	GLN
2	C	1312	ASN
3	D	113	HIS
3	D	232	ASN

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Mol	Chain	Res	Type
3	D	341	ASN
3	D	419	HIS
3	D	465	GLN
3	D	593	ASN
3	D	690	ASN
3	D	700	ASN
3	D	720	ASN
3	D	777	HIS
3	D	875	ASN
3	D	954	ASN
3	D	1010	GLN
3	D	1098	GLN
3	D	1114	GLN
3	D	1197	ASN
3	D	1244	GLN
3	D	1259	GLN
3	D	1366	HIS
4	E	43	ASN
5	F	129	GLN
5	F	227	GLN
5	F	362	ASN
5	F	409	ASN
5	F	455	HIS
1	G	66	HIS
1	G	208	ASN
1	H	18	GLN
1	H	75	GLN
2	I	46	GLN
2	I	450	ASN
2	I	513	GLN
2	I	554	HIS
2	I	568	ASN
2	I	573	ASN
2	I	658	GLN
2	I	686	GLN
2	I	725	GLN
2	I	766	ASN
2	I	856	ASN
2	I	1108	ASN
2	I	1116	HIS
2	I	1209	GLN
2	I	1256	GLN

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Mol	Chain	Res	Type
2	I	1299	ASN
3	J	158	GLN
3	J	209	ASN
3	J	232	ASN
3	J	294	ASN
3	J	300	GLN
3	J	335	GLN
3	J	450	HIS
3	J	458	ASN
3	J	593	ASN
3	J	690	ASN
3	J	708	ASN
3	J	736	GLN
3	J	921	GLN
3	J	954	ASN
3	J	1023	HIS
3	J	1098	GLN
3	J	1114	GLN
3	J	1195	GLN
3	J	1244	GLN
3	J	1326	GLN
3	J	1350	ASN
4	K	43	ASN
4	K	60	ASN
4	K	73	GLN
5	L	129	GLN
5	L	169	ASN
5	L	383	ASN
5	L	455	HIS
5	L	464	ASN
5	L	600	HIS
1	M	41	ASN
1	M	66	HIS
1	N	41	ASN
1	N	75	GLN
1	N	128	HIS
1	N	208	ASN
2	O	150	HIS
2	O	219	GLN
2	O	387	ASN
2	O	447	HIS
2	O	554	HIS

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Mol	Chain	Res	Type
2	O	568	ASN
2	O	686	GLN
2	O	766	ASN
2	O	798	GLN
2	O	808	ASN
2	O	832	HIS
2	O	1017	GLN
2	O	1099	ASN
2	O	1220	GLN
2	O	1307	ASN
2	O	1313	HIS
3	P	113	HIS
3	P	164	GLN
3	P	335	GLN
3	P	364	HIS
3	P	419	HIS
3	P	435	GLN
3	P	545	HIS
3	P	690	ASN
3	P	720	ASN
3	P	736	GLN
3	P	739	GLN
3	P	777	HIS
3	P	1098	GLN
3	P	1114	GLN
3	P	1326	GLN
3	P	1366	HIS
4	Q	43	ASN
5	R	128	ASN
5	R	129	GLN
5	R	309	ASN
5	R	342	GLN
5	R	383	ASN
5	R	455	HIS
5	R	472	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
8	3	3/4 (75%)	1 (33%)	1 (33%)
8	6	3/4 (75%)	1 (33%)	1 (33%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
8	9	3/4 (75%)	1 (33%)	1 (33%)
All	All	9/12 (75%)	3 (33%)	3 (33%)

All (3) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
8	3	15	G
8	6	15	G
8	9	15	G

All (3) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
8	3	13	GTP
8	6	13	GTP
8	9	13	GTP

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

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

5.5 Carbohydrates (i)

There are no carbohydrates in this entry.

5.6 Ligand geometry (i)

Of 9 ligands modelled in this entry, 9 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
6	1	3
7	2	1
6	4	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	4	51:DC	O3'	52:DT	P	3.86
1	1	51:DC	O3'	52:DT	P	3.85
1	1	46:DG	O3'	47:DC	P	3.49
1	2	12:DG	O3'	13:DA	P	2.97
1	1	36:DT	O3'	37:DA	P	2.64

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	A	230/242 (95%)	-0.02	3 (1%) 77 68	162, 207, 238, 299	0
1	B	228/242 (94%)	-0.15	5 (2%) 62 54	165, 211, 254, 284	0
1	G	230/242 (95%)	0.09	16 (6%) 16 16	175, 216, 259, 292	0
1	H	228/242 (94%)	0.39	18 (7%) 12 14	200, 264, 307, 325	0
1	M	230/242 (95%)	-0.01	12 (5%) 27 27	155, 186, 230, 311	0
1	N	228/242 (94%)	-0.18	5 (2%) 62 54	162, 205, 248, 280	0
2	C	1341/1342 (99%)	0.01	38 (2%) 53 46	126, 243, 333, 427	0
2	I	1341/1342 (99%)	-0.08	26 (1%) 66 59	142, 196, 276, 345	0
2	O	1341/1342 (99%)	-0.03	43 (3%) 47 41	126, 202, 287, 327	0
3	D	1362/1407 (96%)	0.06	62 (4%) 32 30	129, 204, 384, 437	0
3	J	1362/1407 (96%)	0.26	118 (8%) 10 12	145, 213, 344, 397	0
3	P	1362/1407 (96%)	0.18	97 (7%) 16 16	133, 223, 391, 441	0
4	E	90/90 (100%)	0.15	8 (8%) 9 12	138, 184, 398, 452	0
4	K	90/90 (100%)	0.24	6 (6%) 17 17	165, 213, 389, 436	0
4	Q	90/90 (100%)	0.30	9 (10%) 7 10	157, 202, 400, 463	0
5	F	497/628 (79%)	0.51	80 (16%) 1 4	176, 304, 513, 589	0
5	L	497/628 (79%)	0.23	54 (10%) 5 8	171, 277, 369, 399	0
5	R	497/628 (79%)	0.41	59 (11%) 4 8	170, 322, 414, 449	0
6	1	49/49 (100%)	-0.21	1 (2%) 65 58	206, 263, 311, 333	0
6	4	49/49 (100%)	-0.03	2 (4%) 37 34	50, 261, 289, 312	0
6	7	49/49 (100%)	0.17	4 (8%) 11 13	214, 295, 334, 336	0
7	2	49/49 (100%)	0.00	2 (4%) 37 34	186, 272, 334, 388	0
7	5	49/49 (100%)	-0.10	0 100 100	174, 257, 298, 371	0
7	8	49/49 (100%)	-0.14	0 100 100	229, 300, 347, 427	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
8	3	3/4 (75%)	0.07	0	100	100	310, 310, 316, 331	0
8	6	3/4 (75%)	0.58	0	100	100	242, 242, 251, 272	0
8	9	3/4 (75%)	0.69	0	100	100	257, 257, 296, 373	0
All	All	11547/12159 (94%)	0.10	668 (5%)	23	23	50, 219, 383, 589	0

All (668) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
5	R	326	TRP	12.3
5	R	325	PRO	10.7
3	D	1054	THR	9.2
3	P	153	ASN	8.5
3	P	959	LYS	8.4
5	F	328	GLU	8.4
5	F	327	SER	8.4
3	J	971	GLY	8.3
3	J	1043	GLY	8.3
5	R	324	LYS	8.2
3	D	852	GLY	8.0
3	J	1045	THR	7.8
3	P	982	LEU	7.7
3	P	960	LEU	7.6
3	D	1171	GLY	7.6
3	J	968	ASN	7.3
3	P	951	GLN	7.3
5	F	320	ILE	7.3
3	J	992	LYS	7.2
5	F	319	ALA	7.0
5	F	332	ASP	7.0
3	J	1042	ASP	6.9
5	F	321	ALA	6.9
3	P	995	TYR	6.8
3	J	1071	GLY	6.8
2	O	282	VAL	6.6
5	F	301	ASN	6.5
3	P	961	SER	6.4
5	R	332	ASP	6.3
3	P	1007	ASP	6.3
5	F	110	LEU	6.3
5	R	327	SER	6.2
3	P	1016	THR	6.1

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Mol	Chain	Res	Type	RSRZ
5	F	211	SER	6.0
3	J	714	GLU	6.0
3	P	958	ILE	5.9
3	J	1006	GLY	5.9
3	D	1083	ALA	5.8
5	L	135	ALA	5.7
3	D	1084	GLN	5.7
3	J	153	ASN	5.7
5	F	299	LYS	5.7
3	D	971	GLY	5.6
5	L	212	ILE	5.6
5	F	318	ALA	5.5
5	F	331	HIS	5.5
5	R	317	ASN	5.5
3	P	983	LYS	5.5
3	P	950	ILE	5.5
1	H	91	ARG	5.4
5	R	238	LYS	5.4
5	F	325	PRO	5.4
3	P	1111	ASP	5.4
3	P	1008	GLY	5.4
5	F	315	TRP	5.3
3	P	1110	GLU	5.3
5	R	335	GLU	5.3
5	F	212	ILE	5.3
3	P	1006	GLY	5.2
5	F	326	TRP	5.2
5	F	317	ASN	5.2
3	J	715	LYS	5.2
5	F	302	PHE	5.2
5	R	318	ALA	5.1
3	D	855	ASP	5.1
5	R	319	ALA	5.1
5	R	323	ASN	5.0
4	Q	90	ARG	5.0
5	F	214	PRO	5.0
5	F	309	ASN	5.0
1	H	122	GLU	5.0
3	D	1052	GLU	4.9
3	J	993	GLU	4.9
5	R	328	GLU	4.9
5	R	334	SER	4.8

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Mol	Chain	Res	Type	RSRZ
5	F	244	THR	4.8
5	F	330	LEU	4.8
3	J	959	LYS	4.8
5	R	244	THR	4.8
3	J	854	ALA	4.8
5	F	303	ILE	4.8
5	R	156	ALA	4.7
3	J	148	GLU	4.7
3	J	958	ILE	4.7
3	J	991	THR	4.7
5	F	304	THR	4.7
5	F	247	GLU	4.7
3	D	1051	ASP	4.7
3	J	1007	ASP	4.7
3	D	715	LYS	4.7
5	F	210	ASN	4.7
5	F	305	LEU	4.6
3	J	969	SER	4.6
3	J	972	LYS	4.6
3	P	1084	GLN	4.6
2	C	235	ASN	4.6
3	D	154	LEU	4.6
2	I	2	VAL	4.6
3	J	1044	GLN	4.6
3	J	1084	GLN	4.6
5	F	311	THR	4.6
3	P	1072	LYS	4.6
5	L	213	ASP	4.6
5	R	333	VAL	4.5
5	R	331	HIS	4.5
3	D	1127	GLU	4.5
5	R	322	MET	4.5
5	L	327	SER	4.5
3	P	981	GLU	4.5
2	O	853	ASP	4.5
3	D	1104	LYS	4.4
3	J	1117	SER	4.4
3	J	1083	ALA	4.4
5	L	247	GLU	4.4
2	C	114	VAL	4.4
3	D	714	GLU	4.4
3	D	1055	GLY	4.4

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Mol	Chain	Res	Type	RSRZ
5	L	244	THR	4.4
5	F	291	CYS	4.3
5	F	310	GLU	4.3
1	G	95	LYS	4.3
3	P	287	ALA	4.3
1	H	90	VAL	4.3
5	L	243	ALA	4.2
5	F	215	GLU	4.2
3	D	854	ALA	4.2
2	I	108	GLU	4.2
5	F	307	THR	4.2
3	D	1032	SER	4.2
3	P	991	THR	4.2
3	P	1083	ALA	4.2
3	J	998	PRO	4.2
3	J	154	LEU	4.1
5	R	155	GLU	4.1
5	F	213	ASP	4.1
3	J	1114	GLN	4.1
5	L	313	ASP	4.1
1	G	90	VAL	4.1
3	P	154	LEU	4.1
2	C	113	THR	4.0
5	F	329	LYS	4.0
4	Q	86	ILE	4.0
2	I	376	PRO	4.0
5	R	321	ALA	4.0
2	O	493	ILE	4.0
3	J	990	ARG	4.0
5	R	237	ALA	4.0
1	M	191	ARG	4.0
2	C	333	ILE	4.0
3	J	1115	ILE	4.0
2	C	232	ILE	4.0
2	C	234	ASP	4.0
3	P	1057	SER	3.9
1	G	92	VAL	3.9
5	L	328	GLU	3.9
3	P	1017	VAL	3.9
2	O	119	GLU	3.9
1	G	93	GLN	3.9
3	P	1015	GLU	3.9

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Mol	Chain	Res	Type	RSRZ
3	P	152	THR	3.9
3	J	1128	SER	3.9
3	D	972	LYS	3.9
3	D	1169	THR	3.9
3	J	1074	LEU	3.9
3	J	1009	GLU	3.9
5	R	170	ALA	3.8
5	F	300	LYS	3.8
3	J	1005	LYS	3.8
2	O	281	ASP	3.8
3	J	1046	ILE	3.8
3	D	851	PRO	3.8
3	J	1129	GLY	3.8
5	F	158	LEU	3.8
5	L	157	ARG	3.8
2	O	622	ASN	3.8
5	R	247	GLU	3.8
3	J	1076	PRO	3.7
3	P	952	VAL	3.7
5	F	297	MET	3.7
3	P	1073	ASP	3.7
2	O	488	MET	3.7
3	J	955	LYS	3.7
5	R	329	LYS	3.7
5	R	336	GLU	3.7
3	P	949	SER	3.7
2	I	109	ALA	3.7
3	D	1082	ASP	3.7
5	F	250	LEU	3.7
5	R	316	PHE	3.7
5	F	248	GLU	3.7
3	D	1203	ARG	3.7
5	F	295	CYS	3.6
3	P	1075	ARG	3.6
1	A	90	VAL	3.6
2	O	485	ASP	3.6
3	P	1108	GLN	3.6
3	D	1031	VAL	3.6
3	D	1192	LYS	3.6
2	C	332	ARG	3.6
3	P	1013	GLY	3.6
3	P	715	LYS	3.6

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Mol	Chain	Res	Type	RSRZ
3	P	957	SER	3.6
5	R	243	ALA	3.6
2	C	1001	GLY	3.6
5	F	308	GLY	3.5
1	B	90	VAL	3.5
5	F	298	PRO	3.5
3	P	1014	GLY	3.5
5	L	253	SER	3.5
2	I	241	LEU	3.5
2	O	484	LEU	3.5
3	P	994	SER	3.5
5	R	330	LEU	3.5
3	P	955	LYS	3.5
2	C	231	GLU	3.5
3	J	1127	GLU	3.5
5	F	155	GLU	3.5
1	G	94	GLY	3.5
3	D	1086	ASN	3.5
5	L	214	PRO	3.5
3	P	1048	ARG	3.5
3	D	1085	GLY	3.4
5	F	306	PHE	3.4
3	D	853	THR	3.4
1	H	131	CYS	3.4
3	D	1022	PRO	3.4
5	F	154	GLU	3.4
3	J	1085	GLY	3.4
5	F	312	SER	3.4
3	J	708	ASN	3.4
3	J	1086	ASN	3.4
5	R	315	TRP	3.4
1	H	210	THR	3.4
3	J	1116	SER	3.4
3	D	1170	LYS	3.3
3	P	846	GLU	3.4
5	F	294	GLN	3.4
2	C	65	ASN	3.3
2	C	233	ARG	3.3
5	F	322	MET	3.3
3	P	848	VAL	3.3
5	R	356	GLU	3.3
5	F	316	PHE	3.3

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Mol	Chain	Res	Type	RSRZ
3	D	949	SER	3.3
3	J	660	GLU	3.3
4	E	87	ALA	3.3
3	J	149	GLY	3.3
3	J	1010	GLN	3.3
5	R	296	LYS	3.3
3	D	1033	GLY	3.3
3	J	563	LEU	3.3
2	O	492	MET	3.3
5	L	238	LYS	3.3
2	I	110	PRO	3.3
4	Q	84	THR	3.3
5	L	211	SER	3.3
3	J	713	GLU	3.3
4	Q	85	ALA	3.3
3	D	1096	PRO	3.3
3	P	286	ALA	3.3
5	L	299	LYS	3.3
4	E	90	ARG	3.3
2	I	375	PRO	3.2
5	F	293	GLU	3.2
6	7	37	DA	3.2
2	O	489	PRO	3.2
5	L	237	ALA	3.2
5	R	339	ARG	3.2
5	R	338	HIS	3.2
5	L	154	GLU	3.2
3	D	1114	GLN	3.2
5	L	136	GLU	3.2
1	H	109	PRO	3.2
3	D	968	ASN	3.2
5	R	354	THR	3.2
3	J	983	LYS	3.2
1	H	97	GLU	3.1
1	B	91	ARG	3.1
3	J	979	ASN	3.1
1	M	98	VAL	3.1
3	P	1050	THR	3.1
1	B	92	VAL	3.1
5	F	289	LYS	3.1
3	D	967	VAL	3.1
2	I	1090	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
3	P	151	MET	3.1
4	K	91	ARG	3.1
5	F	323	ASN	3.1
5	L	312	SER	3.1
3	D	1053	LEU	3.1
3	J	1054	THR	3.1
3	J	1047	THR	3.1
3	P	1109	LEU	3.1
5	F	111	LEU	3.1
5	F	157	ARG	3.1
5	L	242	HIS	3.1
2	C	621	SER	3.1
5	L	288	MET	3.1
3	P	714	GLU	3.0
3	J	1008	GLY	3.0
3	J	1082	ASP	3.0
1	H	93	GLN	3.0
3	P	716	GLN	3.0
5	F	109	GLU	3.0
5	R	311	THR	3.0
3	D	716	GLN	3.0
3	P	1112	GLY	3.0
1	H	176	CYS	3.0
5	L	251	LYS	3.0
3	P	1038	THR	3.0
5	R	242	HIS	3.0
3	P	993	GLU	3.0
3	J	671	GLY	3.0
3	P	149	GLY	3.0
1	B	95	LYS	3.0
3	P	1009	GLU	3.0
5	F	292	VAL	3.0
3	P	990	ARG	3.0
3	D	948	SER	3.0
1	H	92	VAL	2.9
5	F	218	ARG	2.9
3	D	850	LYS	2.9
2	O	490	GLN	2.9
3	P	956	GLY	2.9
3	J	152	THR	2.9
3	J	1012	ALA	2.9
3	J	562	GLU	2.9

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Mol	Chain	Res	Type	RSRZ
3	J	973	LEU	2.9
3	P	1071	GLY	2.9
2	C	748	ILE	2.9
5	L	150	ARG	2.9
2	C	64	GLY	2.9
1	B	122	GLU	2.9
3	P	992	LYS	2.9
3	J	1067	ARG	2.9
2	C	443	ASP	2.9
1	G	9	LEU	2.9
2	O	65	ASN	2.9
3	J	982	LEU	2.9
3	J	999	TYR	2.9
3	J	710	ASP	2.8
3	J	560	ASN	2.8
2	C	548	ARG	2.8
3	D	970	SER	2.8
5	F	166	VAL	2.8
3	J	997	VAL	2.8
2	C	743	PRO	2.8
3	P	1360	GLY	2.8
2	O	629	PHE	2.8
2	O	234	ASP	2.8
3	D	1094	ASP	2.8
1	M	97	GLU	2.8
5	L	325	PRO	2.8
5	F	287	ILE	2.8
2	C	236	LYS	2.8
2	O	1136	GLN	2.8
3	J	978	ARG	2.8
3	P	877	VAL	2.8
3	D	1056	LEU	2.8
3	J	706	VAL	2.8
3	P	1375	ALA	2.8
3	P	1074	LEU	2.8
2	C	442	VAL	2.8
3	J	586	GLY	2.8
3	J	672	LEU	2.8
5	L	252	LEU	2.8
3	P	1012	ALA	2.7
5	R	157	ARG	2.7
5	R	294	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
4	E	91	ARG	2.7
5	L	161	LEU	2.7
5	L	250	LEU	2.7
3	D	766	GLY	2.7
3	J	150	GLY	2.7
5	L	160	ASP	2.7
1	A	92	VAL	2.7
4	K	39	VAL	2.7
1	G	8	PHE	2.7
3	J	1011	VAL	2.7
2	O	108	GLU	2.7
5	L	233	ASP	2.7
3	P	1271	SER	2.7
3	J	1072	LYS	2.7
3	D	1087	ASP	2.7
2	O	235	ASN	2.7
5	R	246	GLN	2.7
2	C	115	LYS	2.7
5	R	160	ASP	2.6
3	J	962	ASN	2.6
2	C	292	ILE	2.6
5	R	168	PRO	2.6
3	P	1051	ASP	2.6
5	L	246	GLN	2.6
3	J	557	LYS	2.6
1	N	95	LYS	2.6
3	D	713	GLU	2.6
3	J	1015	GLU	2.6
1	G	192	VAL	2.6
2	O	483	ASP	2.6
2	C	441	GLU	2.6
2	O	107	ARG	2.6
4	Q	82	ALA	2.6
5	F	79	ALA	2.6
3	J	1053	LEU	2.6
3	J	670	SER	2.6
5	R	337	VAL	2.6
2	I	113	THR	2.6
4	E	86	ILE	2.6
3	P	1205	GLU	2.6
2	C	318	SER	2.6
5	L	331	HIS	2.6

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Mol	Chain	Res	Type	RSRZ
5	F	324	LYS	2.6
6	7	19	DA	2.6
4	E	85	ALA	2.6
5	F	288	MET	2.6
1	M	118	ASP	2.6
2	I	942	ASP	2.6
3	J	996	LYS	2.6
3	P	1166	GLY	2.6
3	P	1082	ASP	2.6
5	F	290	LEU	2.6
3	P	1037	PHE	2.6
5	L	316	PHE	2.6
3	J	970	SER	2.6
4	K	40	PRO	2.6
3	P	1373	ARG	2.6
5	F	83	VAL	2.6
1	G	89	ALA	2.6
2	C	63	SER	2.6
5	R	295	CYS	2.6
3	J	852	GLY	2.6
3	J	989	GLY	2.6
4	Q	83	VAL	2.6
5	L	165	PHE	2.6
2	I	374	GLU	2.5
1	A	89	ALA	2.5
3	J	956	GLY	2.5
2	O	116	ASP	2.5
2	O	1137	GLU	2.5
3	J	1001	ALA	2.5
2	C	746	ALA	2.5
3	J	984	LEU	2.5
5	F	156	ALA	2.5
1	M	121	VAL	2.5
3	J	986	ASP	2.5
1	G	32	GLU	2.5
3	P	1039	ASP	2.5
3	J	82	GLY	2.5
3	P	288	PRO	2.5
3	J	957	SER	2.5
3	D	946	ALA	2.5
1	H	123	ILE	2.5
5	L	210	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
2	I	415	GLU	2.5
1	M	99	ILE	2.5
5	L	156	ALA	2.5
2	I	107	ARG	2.5
3	J	1068	THR	2.5
4	E	88	GLU	2.5
1	N	96	ASP	2.5
5	F	80	ALA	2.5
5	R	248	GLU	2.4
2	C	298	ALA	2.4
3	D	877	VAL	2.4
2	C	111	GLU	2.4
3	J	974	VAL	2.4
3	P	1093	THR	2.4
5	L	171	GLU	2.4
3	P	150	GLY	2.4
3	J	1062	LEU	2.4
3	P	872	LEU	2.4
3	J	518	VAL	2.4
3	J	1073	ASP	2.4
3	P	1023	HIS	2.4
2	I	264	GLU	2.4
5	L	330	LEU	2.4
3	D	1034	PHE	2.4
3	P	1167	LYS	2.4
3	D	155	GLU	2.4
2	O	117	ILE	2.4
3	D	856	ILE	2.4
3	J	1375	ALA	2.4
2	O	1282	GLY	2.4
2	O	118	LYS	2.4
3	J	716	GLN	2.4
2	C	1180	MET	2.4
5	R	398	GLY	2.4
3	D	707	ILE	2.3
2	O	985	GLU	2.3
2	O	103	VAL	2.3
3	D	1097	ALA	2.3
3	P	1049	GLN	2.3
5	F	246	GLN	2.3
1	H	70	THR	2.3
2	O	854	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
5	F	602	SER	2.3
4	K	90	ARG	2.3
3	P	986	ASP	2.3
2	C	21	VAL	2.3
2	I	1014	LEU	2.3
5	L	254	GLU	2.3
2	I	853	ASP	2.3
3	P	984	LEU	2.3
2	I	850	ILE	2.3
1	N	98	VAL	2.3
5	R	355	ILE	2.3
3	P	1094	ASP	2.3
5	F	296	LYS	2.3
5	F	219	GLU	2.3
3	J	954	ASN	2.3
2	C	484	LEU	2.3
5	F	238	LYS	2.3
3	P	1011	VAL	2.3
1	M	134	THR	2.3
2	C	106	GLU	2.3
3	P	987	GLU	2.3
3	P	1024	THR	2.3
1	G	105	SER	2.3
1	M	92	VAL	2.3
5	R	357	GLN	2.3
3	D	672	LEU	2.3
5	R	214	PRO	2.3
1	M	120	ASP	2.3
3	J	967	VAL	2.3
1	N	13	LEU	2.2
2	C	629	PHE	2.2
2	I	606	LEU	2.2
1	G	193	GLU	2.2
1	G	194	GLN	2.2
1	H	136	GLU	2.2
5	R	320	ILE	2.2
2	I	854	ILE	2.2
2	O	273	HIS	2.2
3	P	985	ILE	2.2
3	P	1157	ALA	2.2
5	L	291	CYS	2.2
5	F	165	PHE	2.2

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Mol	Chain	Res	Type	RSRZ
5	F	253	SER	2.2
3	J	1034	PHE	2.2
4	E	82	ALA	2.2
5	L	311	THR	2.2
1	M	73	GLY	2.2
1	M	96	ASP	2.2
5	L	82	GLN	2.2
5	L	153	ALA	2.2
5	L	583	THR	2.2
1	G	139	SER	2.2
2	O	1159	VAL	2.2
2	I	1013	GLN	2.2
1	N	92	VAL	2.2
3	J	994	SER	2.2
4	K	59	ILE	2.2
2	C	1151	LEU	2.2
3	J	827	GLU	2.2
2	C	289	VAL	2.2
3	J	879	ALA	2.2
3	J	1195	GLN	2.2
1	H	89	ALA	2.2
2	O	623	LEU	2.2
3	J	826	ILE	2.2
5	L	329	LYS	2.2
3	P	1125	PRO	2.2
7	2	40	DT	2.2
6	4	44	DG	2.2
3	J	1013	GLY	2.2
3	J	564	VAL	2.2
5	L	162	ILE	2.2
2	O	272	ARG	2.2
1	G	100	LEU	2.2
3	D	153	ASN	2.2
3	P	996	LYS	2.2
5	F	548	LEU	2.1
7	2	41	DG	2.1
3	P	1085	GLY	2.1
2	I	1277	ALA	2.1
5	L	234	THR	2.1
5	L	158	LEU	2.1
3	J	987	GLU	2.1
2	I	1015	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
3	J	1376	GLY	2.1
4	E	89	GLY	2.1
5	R	239	GLY	2.1
1	G	196	THR	2.1
2	I	1017	GLN	2.1
3	P	176	PHE	2.1
3	P	964	LYS	2.1
5	F	251	LYS	2.1
5	F	314	THR	2.1
3	P	1272	SER	2.1
3	D	951	GLN	2.1
3	D	1112	GLY	2.1
2	C	1152	GLY	2.1
2	O	1003	THR	2.1
2	I	3	TYR	2.1
2	O	66	SER	2.1
5	R	159	SER	2.1
3	J	704	GLU	2.1
3	J	1130	GLY	2.1
3	J	433	GLY	2.1
4	K	89	GLY	2.1
5	R	171	GLU	2.1
3	D	857	LEU	2.1
4	Q	39	VAL	2.1
3	D	1030	GLU	2.1
3	P	1276	GLU	2.1
3	P	876	SER	2.1
4	Q	87	ALA	2.1
5	R	245	ALA	2.1
3	D	1212	ASP	2.1
2	O	274	ILE	2.1
2	O	307	GLY	2.1
5	R	605	GLU	2.1
6	1	46	DG	2.1
4	Q	89	GLY	2.1
1	H	105	SER	2.1
2	O	852	ALA	2.1
3	P	1204	VAL	2.1
5	L	79	ALA	2.1
1	H	71	LYS	2.1
1	M	95	LYS	2.1
3	J	556	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
3	J	966	VAL	2.1
3	P	847	ASP	2.1
3	J	707	ILE	2.1
3	J	758	PRO	2.1
5	F	237	ALA	2.1
5	R	152	GLU	2.1
2	C	316	GLU	2.1
2	C	1002	LEU	2.1
2	O	745	GLU	2.1
5	F	355	ILE	2.1
3	P	1374	ALA	2.1
3	J	1373	ARG	2.1
3	P	155	GLU	2.1
5	L	314	THR	2.0
2	C	112	GLY	2.0
3	D	1042	ASP	2.0
5	R	234	THR	2.0
1	H	67	GLU	2.0
6	7	18	DC	2.0
3	J	853	THR	2.0
5	R	233	ASP	2.0
6	7	45	DT	2.0
5	L	155	GLU	2.0
3	D	149	GLY	2.0
3	J	1184	ASP	2.0
3	P	1005	LYS	2.0
1	H	110	VAL	2.0
2	O	306	THR	2.0
3	D	1063	ASP	2.0
5	F	286	LEU	2.0
5	L	239	GLY	2.0
5	L	159	SER	2.0
5	L	292	VAL	2.0
6	4	36	DT	2.0
2	O	625	GLU	2.0
2	O	241	LEU	2.0
2	O	277	LEU	2.0
5	F	243	ALA	2.0
3	J	965	SER	2.0
2	I	963	GLU	2.0
2	O	278	GLU	2.0
5	R	310	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
3	J	1094	ASP	2.0
3	J	1341	ARG	2.0
5	L	81	ALA	2.0
2	I	1159	VAL	2.0
5	R	236	LYS	2.0

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

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

6.3 Carbohydrates (i)

There are no carbohydrates in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
10	ZN	J	1501	1/1	0.72	0.13	218,218,218,218	0
10	ZN	D	1501	1/1	0.83	0.11	215,215,215,215	0
10	ZN	P	1502	1/1	0.90	0.15	204,204,204,204	0
9	MG	C	1401	1/1	0.91	0.33	218,218,218,218	0
10	ZN	P	1501	1/1	0.96	0.08	252,252,252,252	0
10	ZN	J	1502	1/1	0.97	0.17	196,196,196,196	0
9	MG	J	1503	1/1	0.97	0.19	204,204,204,204	0
10	ZN	D	1502	1/1	0.97	0.21	172,172,172,172	0
9	MG	P	1503	1/1	0.98	0.15	187,187,187,187	0

6.5 Other polymers (i)

There are no such residues in this entry.