Full wwPDB EM Validation Report ⓘ

Jul 7, 2024 – 12:46 AM JST

PDB ID	:	8ZJM
EMDB ID	:	EMD-60150
Title	:	Structure of DOCK5/ELMO1/Rac1 core (RhoG/DOCK5/ELMO1/Rac1 dataset, class 5)
Authors	:	Kukimoto-Niino, M.; Katsura, K.; Ishizuka-Katsura, Y.; Mishima-Tsumagari, C.; Yonemochi, M.; Inoue, M.; Nakagawa, R.; Kaushik, R.; Zhang, K.Y.J.; Shirouzu, M.
Deposited on	:	2024-05-15
Resolution	:	4.52 Å(reported)
Based on initial model	:	7DPA

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

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

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

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

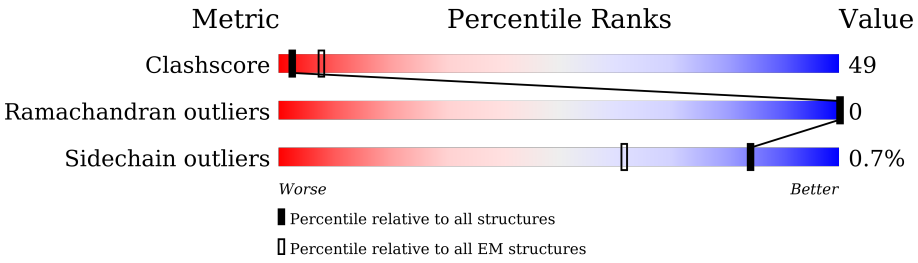
EMDB validation analysis	:	0.0.1.dev92
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.37.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 4.52 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
Clashscore	158937	4297
Ramachandran outliers	154571	4023
Sidechain outliers	154315	3826

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

Mol	Chain	Length	Quality of chain
1	A	733	11% 16% 73%
1	D	733	11% 16% 73%
2	B	1648	10% 32% 67%
2	E	1648	10% 31% 68%
3	C	184	8% 34% 61%
3	F	184	6% 33% 62%

2 Entry composition

There are 3 unique types of molecules in this entry. The entry contains 32858 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

- Molecule 1 is a protein called Engulfment and cell motility protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	198	Total	C	N	O	S	0	0
			1608	1018	277	303	10		
1	D	198	Total	C	N	O	S	0	0
			1608	1018	277	303	10		

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	-5	GLY	-	expression tag	UNP Q92556
A	-4	GLY	-	expression tag	UNP Q92556
A	-3	SER	-	expression tag	UNP Q92556
A	-2	GLY	-	expression tag	UNP Q92556
A	-1	GLY	-	expression tag	UNP Q92556
A	0	SER	-	expression tag	UNP Q92556
D	-5	GLY	-	expression tag	UNP Q92556
D	-4	GLY	-	expression tag	UNP Q92556
D	-3	SER	-	expression tag	UNP Q92556
D	-2	GLY	-	expression tag	UNP Q92556
D	-1	GLY	-	expression tag	UNP Q92556
D	0	SER	-	expression tag	UNP Q92556

- Molecule 2 is a protein called Dedicator of cytokinesis protein 5.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		
2	E	1642	Total	C	N	O	S	0	0
			13436	8618	2264	2484	70		

There are 14 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
B	-5	GLY	-	expression tag	UNP Q9H7D0

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Chain	Residue	Modelled	Actual	Comment	Reference
B	-4	GLY	-	expression tag	UNP Q9H7D0
B	-3	SER	-	expression tag	UNP Q9H7D0
B	-2	GLY	-	expression tag	UNP Q9H7D0
B	-1	GLY	-	expression tag	UNP Q9H7D0
B	0	SER	-	expression tag	UNP Q9H7D0
B	1285	ARG	LYS	variant	UNP Q9H7D0
E	-5	GLY	-	expression tag	UNP Q9H7D0
E	-4	GLY	-	expression tag	UNP Q9H7D0
E	-3	SER	-	expression tag	UNP Q9H7D0
E	-2	GLY	-	expression tag	UNP Q9H7D0
E	-1	GLY	-	expression tag	UNP Q9H7D0
E	0	SER	-	expression tag	UNP Q9H7D0
E	1285	ARG	LYS	variant	UNP Q9H7D0

- Molecule 3 is a protein called Ras-related C3 botulinum toxin substrate 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	C	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		
3	F	177	Total	C	N	O	S	0	0
			1385	890	228	259	8		

There are 16 discrepancies between the modelled and reference sequences:

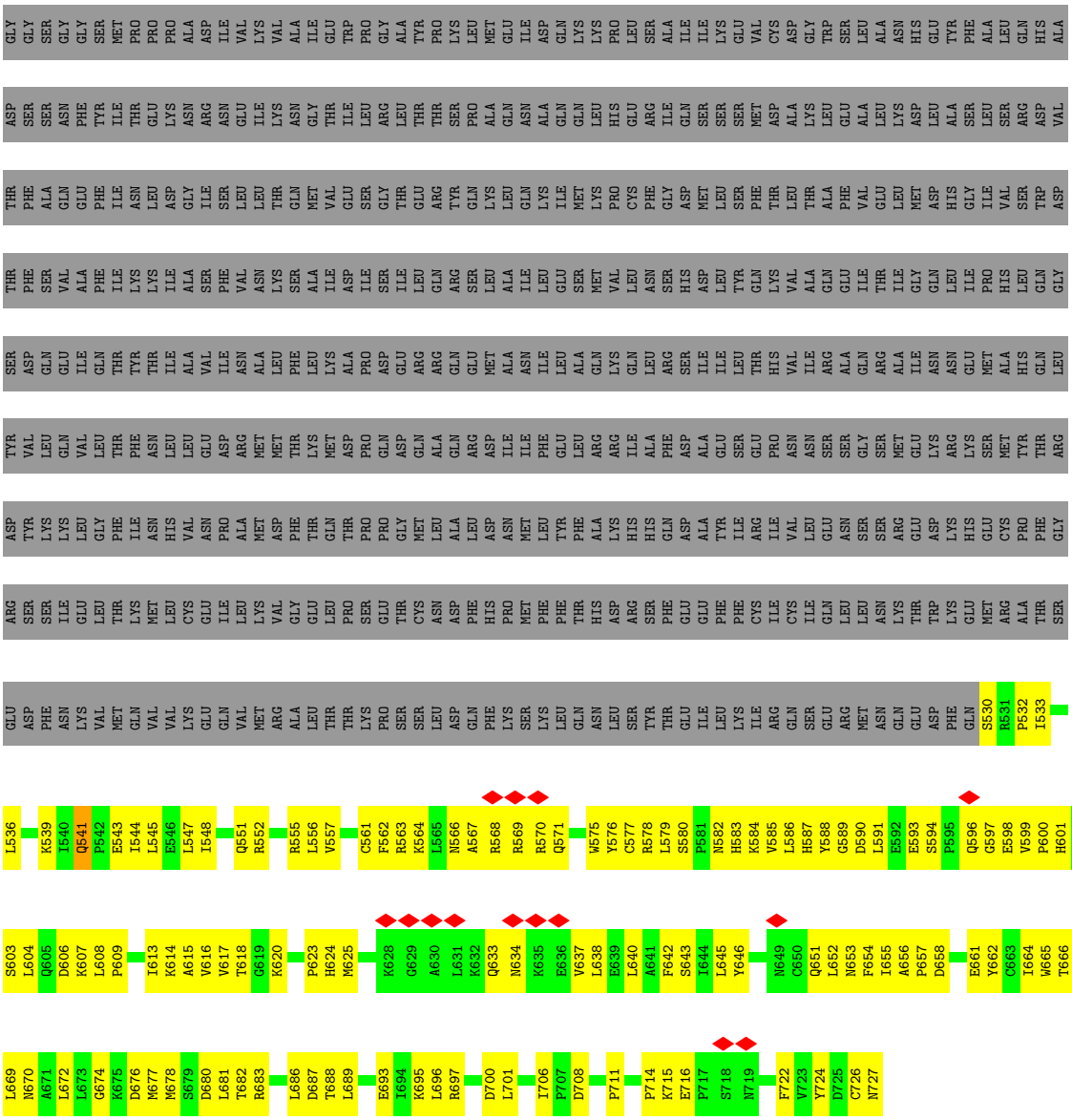
Chain	Residue	Modelled	Actual	Comment	Reference
C	-6	GLY	-	expression tag	UNP P63000
C	-5	SER	-	expression tag	UNP P63000
C	-4	SER	-	expression tag	UNP P63000
C	-3	GLY	-	expression tag	UNP P63000
C	-2	SER	-	expression tag	UNP P63000
C	-1	SER	-	expression tag	UNP P63000
C	0	GLY	-	expression tag	UNP P63000
C	15	ALA	GLY	engineered mutation	UNP P63000
F	-6	GLY	-	expression tag	UNP P63000
F	-5	SER	-	expression tag	UNP P63000
F	-4	SER	-	expression tag	UNP P63000
F	-3	GLY	-	expression tag	UNP P63000
F	-2	SER	-	expression tag	UNP P63000
F	-1	SER	-	expression tag	UNP P63000
F	0	GLY	-	expression tag	UNP P63000
F	15	ALA	GLY	engineered mutation	UNP P63000

3 Residue-property plots (i)

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

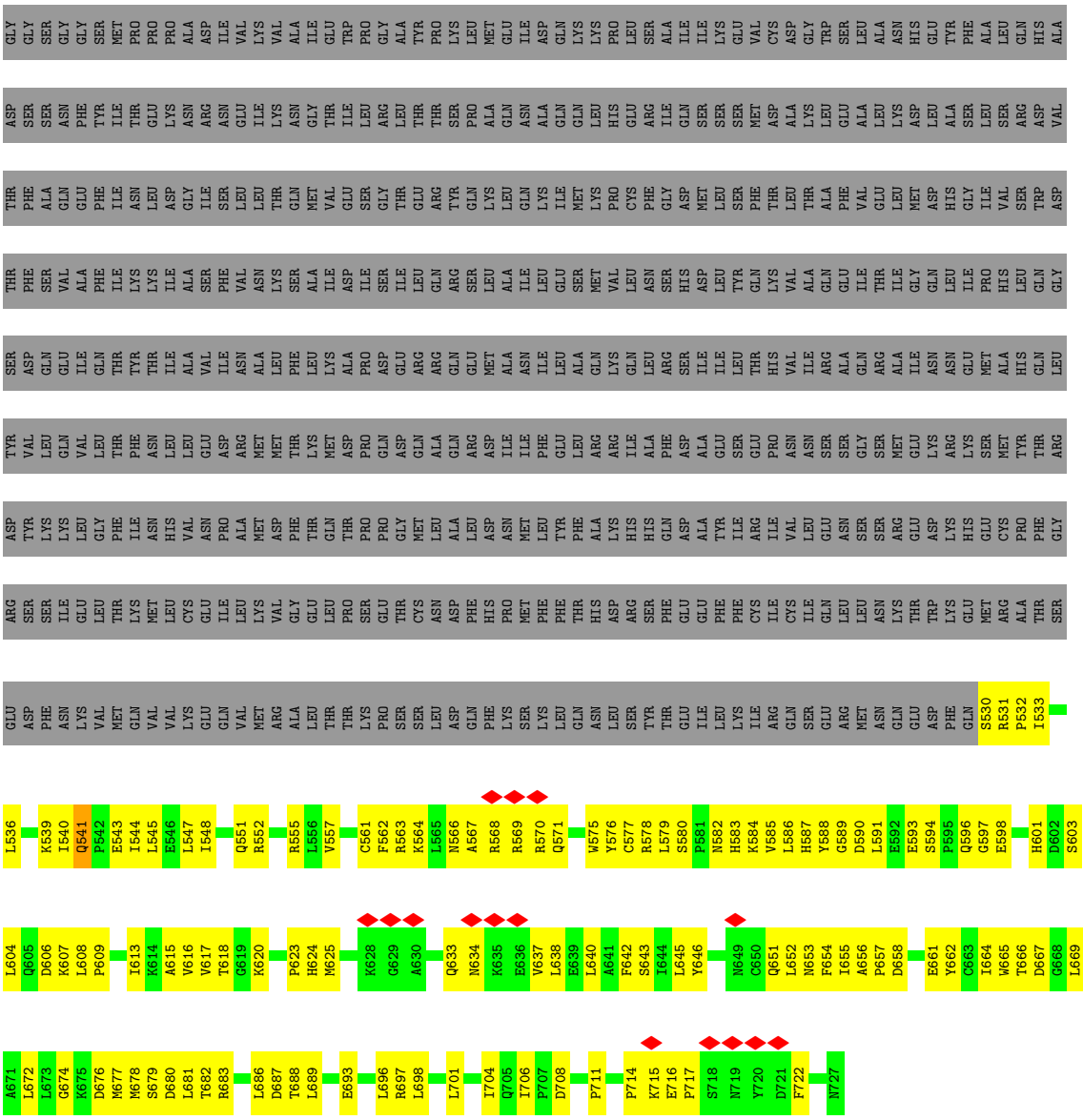
- Molecule 1: Engulfment and cell motility protein 1

Chain A:



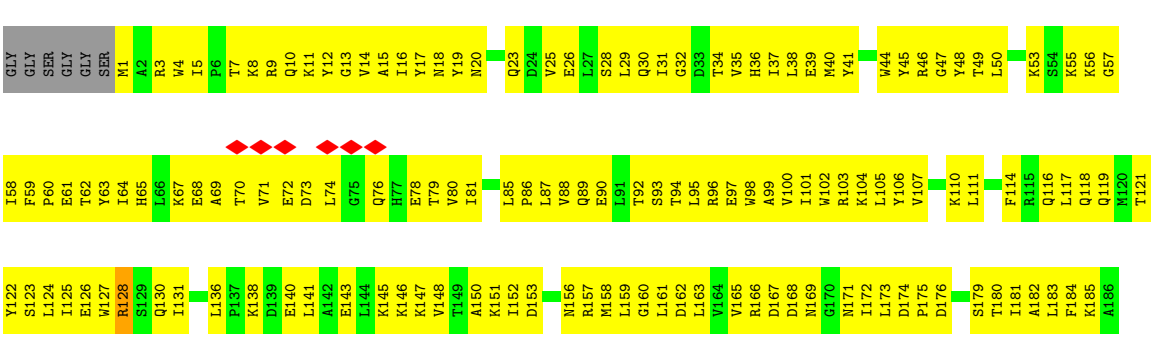
• Molecule 1: Engulfment and cell motility protein 1

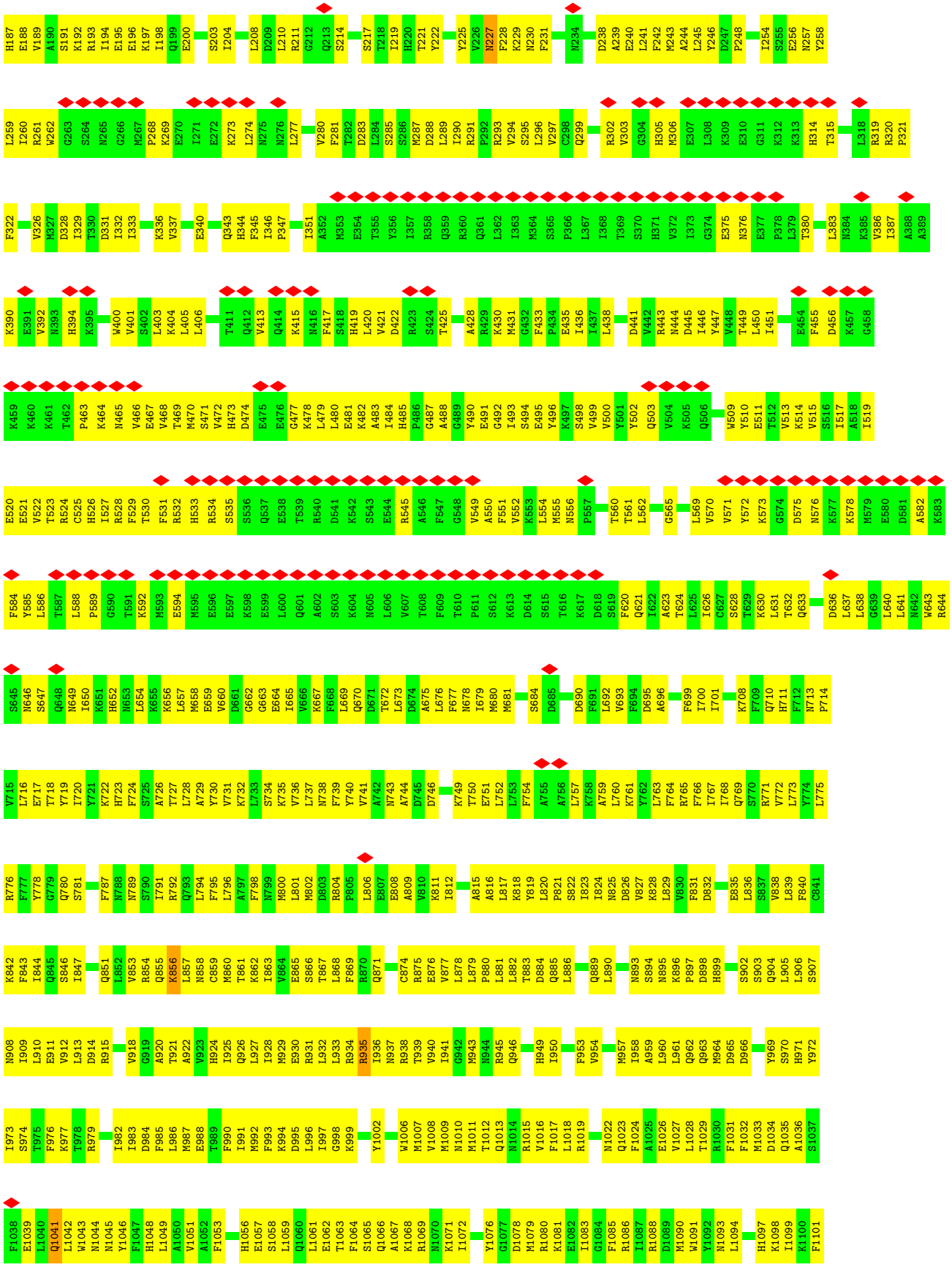
Chain D:

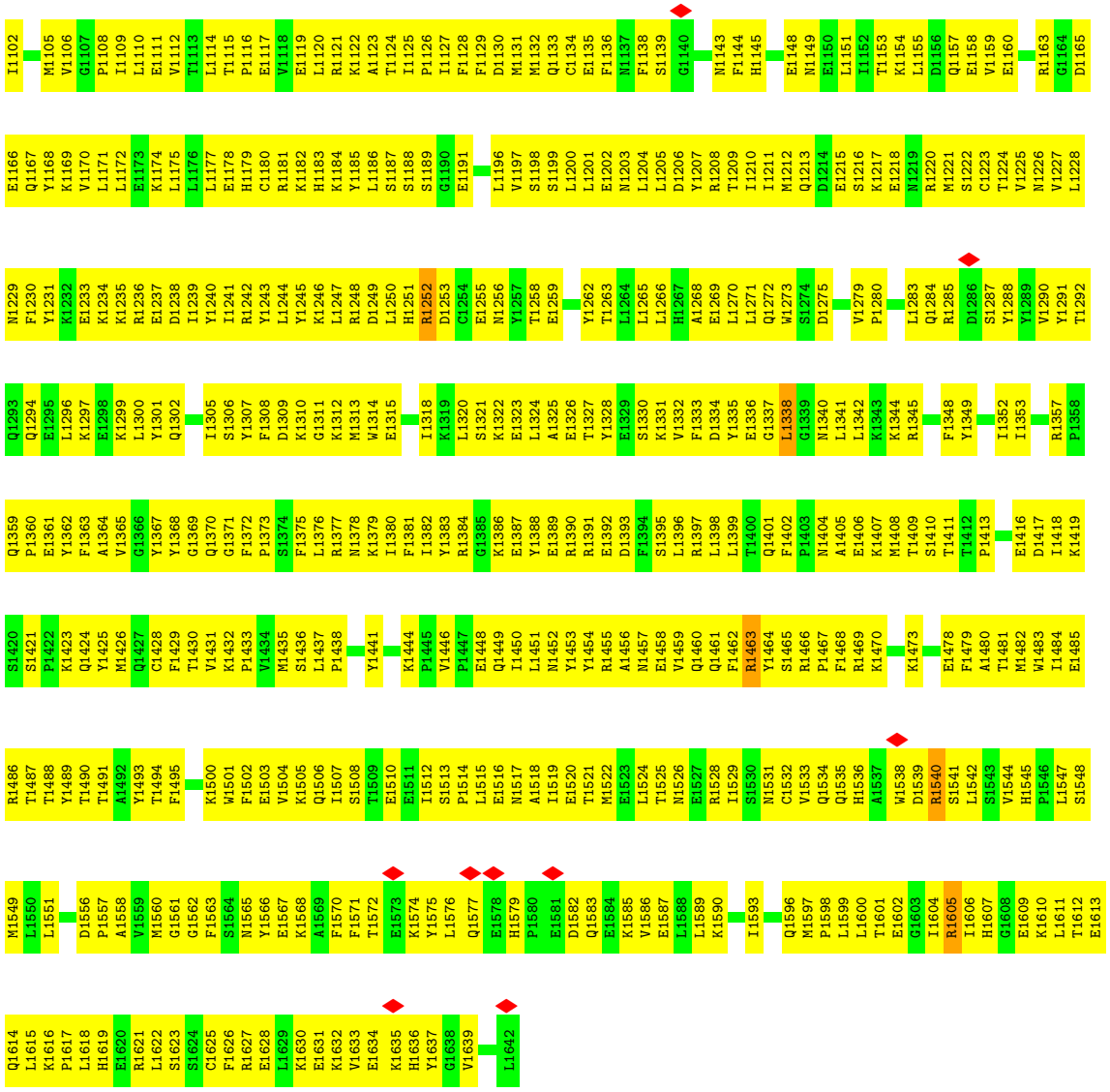


• Molecule 2: Dedicator of cytokinesis protein 5

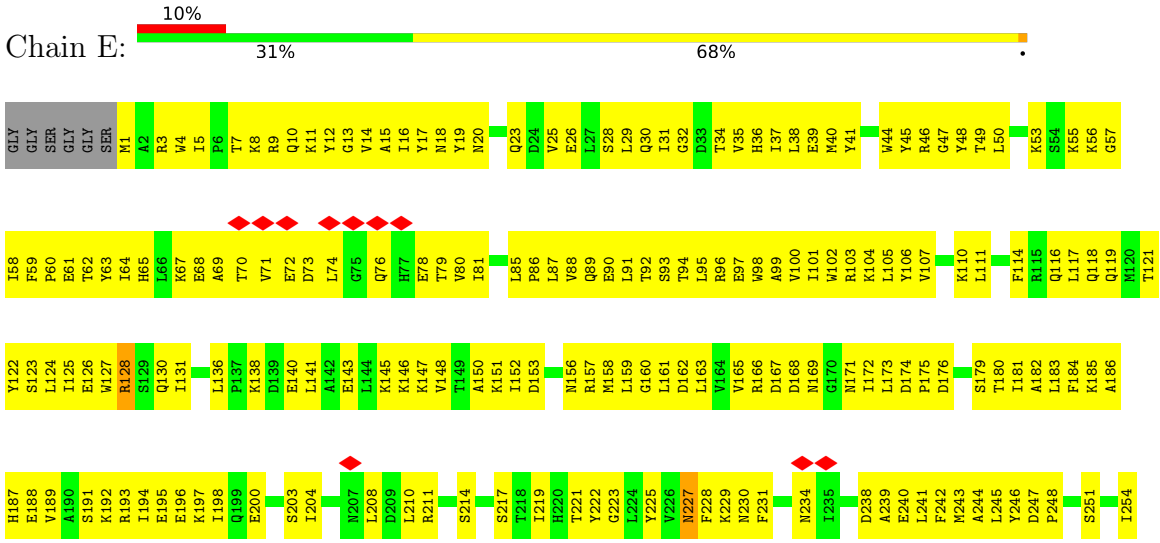
Chain B:

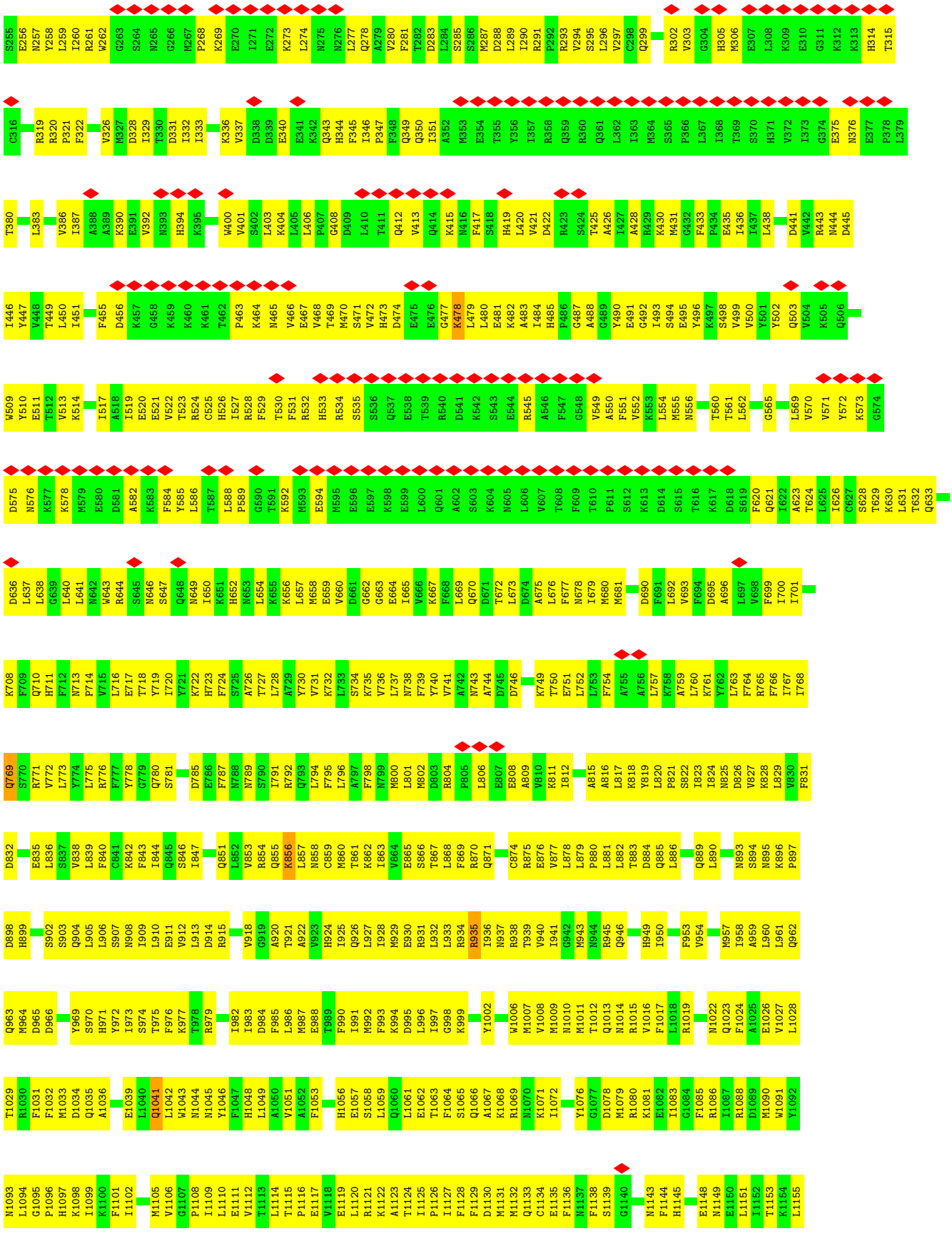


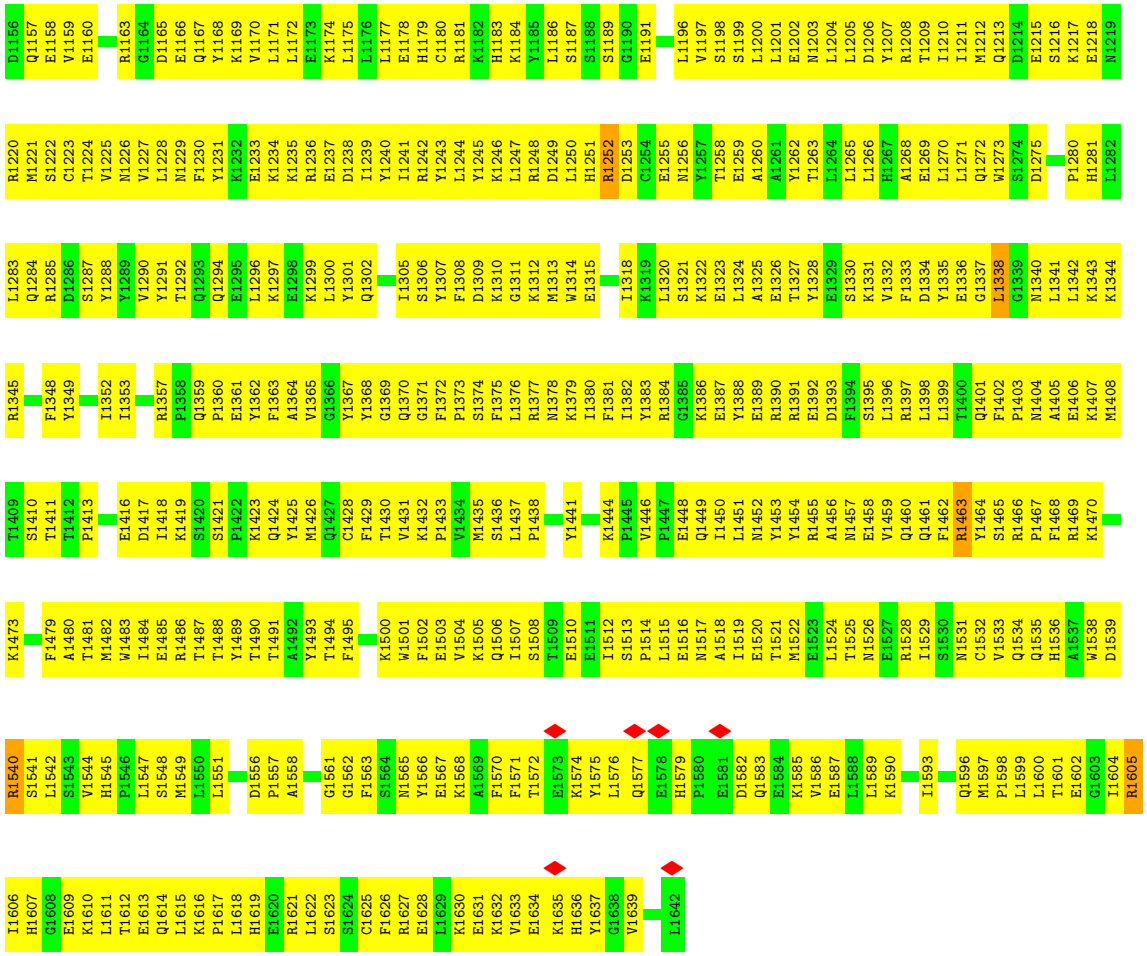

H187 E188 V189 A190 S191 K192 R193 I194 E195 E196 K197 I198 Q199 E200 S203 I204 L208 D209 L210 R211 G212 Q213 S214 S217 T218 I219 H220 T221 Y222 Y225 V226 N227 F228 K229 N230 F231 N234 D238 A239 E240 L241 F242 M243 A244 L245 Y246 D247 P248 I254 S255 E256 N257 Y258
L259 I260 R261 W262 G263 S264 N265 G266 M267 P268 K269 E270 I271 E272 K273 L274 N275 N276 L277 V280 F281 T282 D283 L284 S285 S286 M287 D288 L289 I290 R291 P292 R293 V294 S295 L296 V297 C298 Q299 R302 V303 G304 H305 M306 E307 L308 K309 E310 G311 K312 K313 H314 T315 L318 R319 R320 P321
F322 V326 M327 D328 I329 T330 D331 I332 I333 K336 V337 E340 Q343 H344 F345 I346 P347 I351 A352 M353 E354 T355 Y356 I357 R358 Q359 R360 Q361 L362 I363 M364 S365 P366 L367 I368 T369 S370 H371 V372 I373 G374 E375 N376 E377 P378 L379 T380 L383 N384 K385 V386 I387 A388 A389
K390 E391 V392 N393 H394 K395 W400 V401 S402 L403 K404 L405 L406 T411 Q412 V413 Q414 K415 N416 F417 S418 H419 L420 V421 D422 R423 S424 T425 A428 R429 K430 M431 G432 F433 P434 E435 I436 I437 L438 D441 V442 R443 N444 D445 I446 Y447 V448 T449 L450 I451 E454 F455 D456 K457 G458
K459 K460 K461 T462 P463 K464 N465 V466 E467 V468 T469 M470 S471 V472 H473 D474 E475 E476 G477 K478 L479 L480 E481 K482 A483 I484 H485 P486 G487 A488 G489 Y490 E491 G492 I493 S494 E495 Y496 K497 S498 V499 V500 Y501 Y502 Q503 V504 K505 Q506 W509 Y510 E511 T512 V513 K514 V515 S516 I517 A518 I519
E520 E521 V522 T523 R524 C525 H526 I527 R528 F529 T530 F531 R532 H533 R534 S535 S536 Q537 E538 T539 R540 D541 K542 S543 E544 R545 A546 F547 G548 V549 A550 F551 V552 K553 L554 M555 N556 P557 T560 T561 L562 G565 L569 V570 V571 Y572 K573 G574 D575 N576 K577 K578 M579 E580 D581 A582 K583
F584 Y585 L586 T587 L588 P589 G590 T591 K592 M593 E594 M595 E596 E597 K598 E599 L600 Q601 A602 S603 K604 N605 L606 V607 T608 F609 T610 P611 S612 K613 D614 S615 T616 K617 D618 S619 F620 Q621 T622 A623 T624 L625 I626 G627 S628 T629 K630 L631 T632 Q633 D636 L637 L638 G639 L640 L641 N642 W643 R644
S645 N646 S647 Q648 N649 I650 K651 H652 M653 L654 K655 K656 L657 M658 E659 V660 D661 G662 G663 E664 I665 V666 K667 F668 L669 Q670 D671 T672 L673 D674 A675 L676 F677 N678 I679 M680 M681 S684 D685 D690 F691 L692 V693 F694 D695 A696 F699 I700 I701 K708 F709 Q710 H711 F712 N713 P714
V715 L716 E717 T718 Y719 I720 Y721 K722 H723 F724 S725 A726 T727 L728 A729 Y730 V731 K732 L733 S734 K735 V736 L737 N738 F739 Y740 V741 A742 N743 A744 D745 D746 K749 T750 E751 L752 L753 F754 A755 A756 L757 K758 A759 L760 K761 Y762 L763 F764 R765 F766 I767 I768 Q769 S770 R771 V772 L773 Y774 L775
R776 F777 Y778 G779 Q780 S781 F787 N788 N789 S790 I791 R792 Q793 L794 F795 L796 A797 F798 N799 M800 L801 M802 D803 R804 P805 L806 E807 E808 A809 V810 K811 I812 A815 A816 L817 K818 Y819 L820 P821 S822 I823 I824 N825 D826 V827 K828 L829 V830 F831 D832 E835 L836 S837 V838 L839 F840 C841
K842 F843 I844 Q845 S846 I847 Q851 L852 V853 R854 Q855 K856 L857 N858 C859 M860 T861 K862 I863 V864 E865 S866 T867 L868 F869 R870 Q871 C874 R875 E876 V877 L878 L879 P880 L881 L882 T883 D884 Q885 L886 Q889 L890 N893 S894 N895 K896 P897 D898 H899 S902 S903 Q904 L905 L906 S907
N908 I909 L910 E911 V912 L913 D914 R915 V918 G919 A920 T921 A922 V923 H924 I925 Q926 L927 I928 M929 E930 R931 L932 L933 R934 R935 I936 N937 R938 T939 V940 I941 G942 M943 N944 R945 Q946 H949 I950 F953 V954 M957 I958 A959 L960 L961 Q962 Q963 M964 D965 D966 Y969 S970 H971 Y972
I973 S974 T975 F976 K977 T978 R979 I982 I983 D984 F985 L986 M987 E988 T989 F990 I991 M992 F993 K994 D995 L996 I997 G998 K999 Y1002 W1006 M1007 V1008 M1009 N1010 M1011 T1012 Q1013 N1014 R1015 V1016 F1017 L1018 R1019 N1022 Q1023 F1024 A1025 E1026 V1027 L1028 T1029 R1030 F1031 F1032 M1033 D1034 Q1035 A1036 S1037
F1038 E1039 L1040 Q1041 L1042 W1043 N1044 N1045 Y1046 F1047 H1048 L1049 A1050 V1051 A1052 F1053 H1056 E1057 S1058 L1059 Q1060 L1061 E1062 T1063 F1064 S1065 Q1066 A1067 K1068 R1069 N1070 K1071 I1072 Y1076 G1077 D1078 M1079 R1080 K1081 E1082 I1083 G1084 F1085 R1086 T1087 R1088 D1089 M1090 W1091 Y1092 N1093 L1094 H1097 K1098 I1099 K1100 F1101



• Molecule 2: Dedicator of cytokinesis protein 5

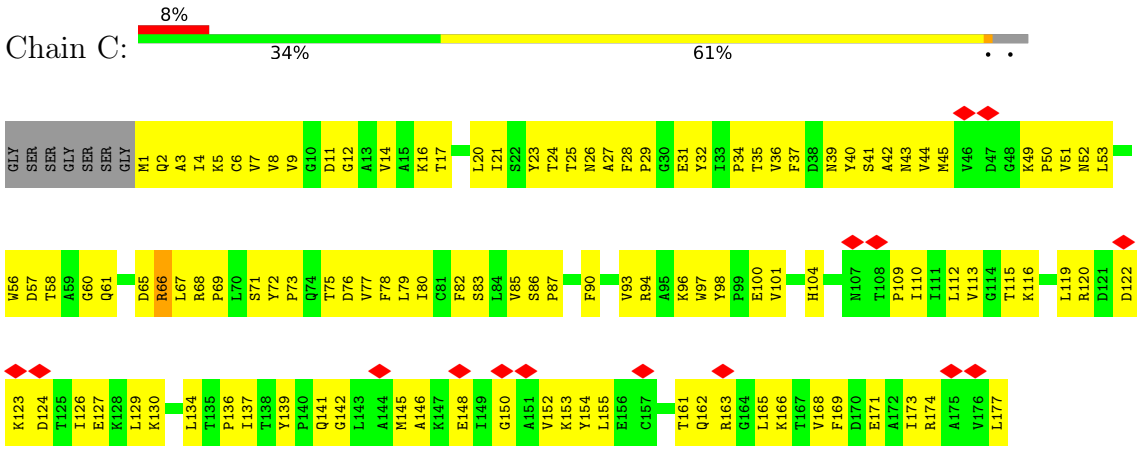






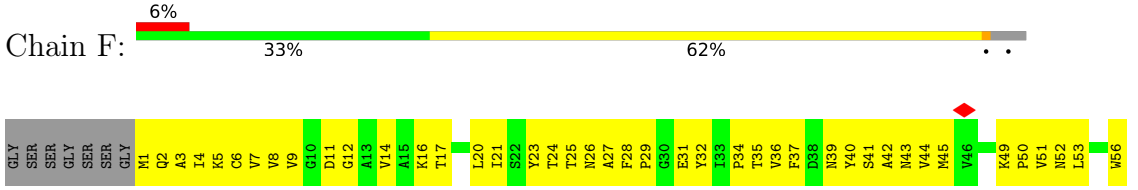
• Molecule 3: Ras-related C3 botulinum toxin substrate 1

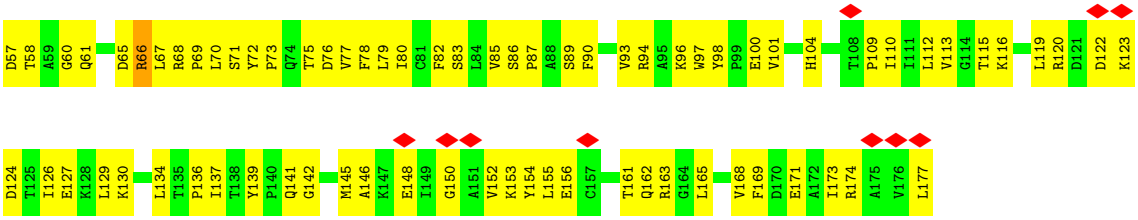
Chain C:



• Molecule 3: Ras-related C3 botulinum toxin substrate 1

Chain F:




D57 T58 A59 G60 Q61 D65 R66 L67 R68 P69 L70 S71 Y72 P73 Q74 T75 D76 V77 F78 L79 I80 C81 F82 S83 L84 V85 S86 P87 A88 S89 F90 V93 R94 A95 K96 W97 Y98 P99 E100 V101 H104 T108 P109 I110 I111 L112 V113 G114 T115 K116 L119 R120 D121 D122 K123
D124 T125 I126 E127 K128 L129 K130 L134 T135 P136 I137 T138 Y139 P140 Q141 G142 M145 A146 K147 E148 I149 G150 A151 V152 K153 Y154 L155 E156 C157 T161 Q162 R163 G164 L165 V168 F169 D170 E171 A172 I173 R174 A175 V176 L177

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C2	Depositor
Number of particles used	156585	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TITAN KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	800	Depositor
Maximum defocus (nm)	2000	Depositor
Magnification	64000	Depositor
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.052	Depositor
Minimum map value	-0.015	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.002	Depositor
Recommended contour level	0.01	Depositor
Map size (Å)	452.2, 452.2, 452.2	wwPDB
Map dimensions	340, 340, 340	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.33, 1.33, 1.33	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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	0.33	0/1641	0.55	0/2218
1	D	0.33	0/1641	0.56	0/2218
2	B	0.36	0/13722	0.54	1/18514 (0.0%)
2	E	0.36	0/13722	0.54	1/18514 (0.0%)
3	C	0.32	0/1415	0.50	0/1924
3	F	0.32	0/1415	0.50	0/1924
All	All	0.35	0/33556	0.54	2/45312 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
1	A	0	1
1	D	0	1
2	B	0	1
2	E	0	1
All	All	0	4

There are no bond length outliers.

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	E	1338	LEU	CA-CB-CG	5.62	128.24	115.30
2	B	1338	LEU	CA-CB-CG	5.61	128.19	115.30

There are no chirality outliers.

All (4) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	541	GLN	Peptide

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Mol	Chain	Res	Type	Group
2	B	1041	GLN	Peptide
1	D	541	GLN	Peptide
2	E	1041	GLN	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	1608	0	1617	136	0
1	D	1608	0	1617	148	0
2	B	13436	0	13516	1369	0
2	E	13436	0	13516	1393	0
3	C	1385	0	1407	129	0
3	F	1385	0	1407	128	0
All	All	32858	0	33080	3217	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 49.

All (3217) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:929:MET:HA	2:E:933:LEU:HD13	1.43	1.01
1:A:701:LEU:HD23	2:B:31:ILE:HG23	1.43	1.00
2:B:929:MET:HA	2:B:933:LEU:HD13	1.43	0.99
2:E:1545:HIS:HB2	3:F:5:LYS:HE2	1.49	0.95
2:E:657:LEU:HD23	2:E:696:ALA:HB1	1.51	0.93
1:A:711:PRO:HG2	2:B:16:ILE:HG21	1.50	0.92
2:B:657:LEU:HD23	2:B:696:ALA:HB1	1.51	0.92
2:E:1587:GLU:HA	2:E:1590:LYS:HD2	1.53	0.91
2:E:102:TRP:HB2	2:E:114:PHE:HE1	1.36	0.91
2:B:5:ILE:H	2:B:40:MET:H	1.19	0.90
2:E:1484:ILE:HB	2:E:1512:ILE:HD12	1.53	0.90
2:B:657:LEU:HD21	2:B:700:ILE:HD11	1.54	0.90
2:B:1587:GLU:HA	2:B:1590:LYS:HD2	1.53	0.89
2:B:102:TRP:HB2	2:B:114:PHE:HE1	1.36	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:5:ILE:H	2:E:40:MET:H	1.19	0.88
2:B:1526:ASN:HA	2:B:1529:ILE:HD12	1.56	0.88
2:B:1484:ILE:HB	2:B:1512:ILE:HD12	1.53	0.88
2:E:10:GLN:HG3	2:E:37:ILE:HB	1.56	0.87
2:E:1526:ASN:HA	2:E:1529:ILE:HD12	1.56	0.87
2:B:239:ALA:HB3	2:B:262:TRP:HB3	1.57	0.87
2:E:657:LEU:HD21	2:E:700:ILE:HD11	1.54	0.87
2:B:10:GLN:HG3	2:B:37:ILE:HB	1.56	0.85
3:C:87:PRO:HG2	3:C:134:LEU:HB3	1.58	0.85
1:D:580:SER:HA	1:D:587:HIS:HE1	1.41	0.85
2:E:239:ALA:HB3	2:E:262:TRP:HB3	1.57	0.85
2:B:764:PHE:HD2	2:B:767:ILE:HD12	1.41	0.85
2:E:738:ASN:HA	2:E:794:LEU:HD13	1.58	0.85
1:A:580:SER:HA	1:A:587:HIS:HE1	1.42	0.85
2:B:376:ASN:ND2	2:B:502:TYR:O	2.10	0.84
2:B:738:ASN:HA	2:B:794:LEU:HD13	1.59	0.84
3:C:171:GLU:HA	3:C:174:ARG:HG2	1.59	0.83
2:E:677:PHE:HB3	2:E:726:ALA:HB2	1.60	0.83
2:E:764:PHE:HD2	2:E:767:ILE:HD12	1.41	0.83
2:E:166:ARG:NH1	2:E:167:ASP:OD1	2.11	0.83
2:E:376:ASN:ND2	2:E:502:TYR:O	2.11	0.83
3:C:65:ASP:HA	3:C:68:ARG:HG2	1.61	0.83
2:B:166:ARG:NH1	2:B:167:ASP:OD1	2.11	0.83
2:B:1567:GLU:HA	2:B:1571:PHE:HB2	1.61	0.83
3:F:87:PRO:HG2	3:F:134:LEU:HB3	1.58	0.83
2:B:242:PHE:HB2	2:B:299:GLN:HB2	1.61	0.83
2:E:4:TRP:HB3	2:E:39:GLU:HB3	1.61	0.82
2:E:1418:ILE:HG13	2:E:1425:TYR:CD2	2.15	0.82
2:B:1418:ILE:HG13	2:B:1425:TYR:CD2	2.15	0.82
3:C:1:MET:SD	3:C:49:LYS:NZ	2.51	0.82
2:B:677:PHE:HB3	2:B:726:ALA:HB2	1.60	0.82
2:E:242:PHE:HB2	2:E:299:GLN:HB2	1.61	0.82
3:F:65:ASP:HA	3:F:68:ARG:HG2	1.61	0.82
3:F:1:MET:SD	3:F:49:LYS:NZ	2.51	0.82
2:B:1557:PRO:HB2	2:B:1561:GLY:HA2	1.62	0.82
3:C:7:VAL:HA	3:C:56:TRP:HB2	1.61	0.82
2:E:730:TYR:HA	2:E:767:ILE:HG23	1.61	0.82
2:E:1006:TRP:O	2:E:1010:ASN:N	2.12	0.81
3:F:96:LYS:HD2	3:F:100:GLU:HG3	1.62	0.81
2:B:4:TRP:HB3	2:B:39:GLU:HB3	1.61	0.81
2:E:1557:PRO:HB2	2:E:1561:GLY:HA2	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1432:LYS:N	2:B:1463:ARG:O	2.12	0.81
1:D:551:GLN:OE1	1:D:552:ARG:NH2	2.14	0.81
3:C:96:LYS:HD2	3:C:100:GLU:HG3	1.62	0.81
3:F:171:GLU:HA	3:F:174:ARG:HG2	1.59	0.81
2:B:1251:HIS:HB3	2:B:1256:ASN:HB2	1.62	0.81
2:B:1006:TRP:O	2:B:1010:ASN:N	2.12	0.81
2:E:1314:TRP:HB3	2:E:1348:PHE:HB3	1.61	0.81
2:B:1444:LYS:NZ	2:E:1330:SER:O	2.13	0.81
3:F:7:VAL:HA	3:F:56:TRP:HB2	1.61	0.81
2:B:730:TYR:HA	2:B:767:ILE:HG23	1.61	0.81
2:E:1567:GLU:HA	2:E:1571:PHE:HB2	1.61	0.80
1:A:551:GLN:OE1	1:A:552:ARG:NH2	2.14	0.80
2:B:165:VAL:HG23	2:B:175:PRO:HD3	1.62	0.80
2:B:1314:TRP:HB3	2:B:1348:PHE:HB3	1.61	0.80
2:B:241:LEU:HB2	2:B:260:ILE:HB	1.63	0.80
2:E:347:PRO:HB2	2:E:392:VAL:HB	1.64	0.80
2:E:1561:GLY:O	2:E:1565:ASN:N	2.15	0.80
2:E:1251:HIS:HB3	2:E:1256:ASN:HB2	1.62	0.80
2:B:1382:ILE:N	2:B:1502:PHE:O	2.15	0.79
2:E:1488:THR:HB	2:E:1508:SER:HB2	1.64	0.79
2:E:1169:LYS:HA	2:E:1172:LEU:HD12	1.65	0.79
1:A:724:TYR:HB3	2:B:4:TRP:HB2	1.63	0.79
2:E:165:VAL:HG23	2:E:175:PRO:HD3	1.62	0.79
2:E:241:LEU:HB2	2:E:260:ILE:HB	1.63	0.79
2:E:1382:ILE:N	2:E:1502:PHE:O	2.15	0.79
2:E:467:GLU:HB2	2:E:500:VAL:HG22	1.65	0.79
2:E:740:TYR:HA	2:E:749:LYS:HD3	1.65	0.79
2:E:1357:ARG:HH22	2:E:1456:ALA:H	1.31	0.79
2:E:1283:LEU:O	2:E:1285:ARG:NH1	2.16	0.79
3:C:77:VAL:HG12	3:C:109:PRO:HG2	1.65	0.79
2:B:1128:PHE:HA	2:B:1131:MET:SD	2.23	0.79
2:E:1128:PHE:HA	2:E:1131:MET:SD	2.23	0.79
2:B:347:PRO:HB2	2:B:392:VAL:HB	1.64	0.79
2:E:18:ASN:HB3	2:E:28:SER:HB2	1.63	0.78
2:E:1378:ASN:ND2	2:E:1419:LYS:O	2.16	0.78
2:E:889:GLN:OE1	2:E:895:ASN:ND2	2.17	0.78
2:B:1169:LYS:HA	2:B:1172:LEU:HD12	1.65	0.78
2:B:889:GLN:OE1	2:B:895:ASN:ND2	2.17	0.78
2:B:929:MET:HG2	2:B:933:LEU:HD22	1.66	0.78
2:B:1291:TYR:HB3	2:B:1296:LEU:HD21	1.65	0.78
1:A:637:VAL:HG12	1:A:640:LEU:HD12	1.65	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:18:ASN:HB3	2:B:28:SER:HB2	1.63	0.78
1:D:637:VAL:HG12	1:D:640:LEU:HD12	1.65	0.77
2:B:740:TYR:HA	2:B:749:LYS:HD3	1.65	0.77
2:E:46:ARG:HB3	2:E:58:ILE:HG13	1.67	0.77
3:F:77:VAL:HG12	3:F:109:PRO:HG2	1.65	0.77
2:B:1283:LEU:O	2:B:1285:ARG:NH1	2.16	0.77
1:D:640:LEU:HB3	1:D:656:ALA:H	1.49	0.77
2:B:467:GLU:HB2	2:B:500:VAL:HG22	1.65	0.77
2:E:929:MET:HG2	2:E:933:LEU:HD22	1.66	0.77
2:B:1378:ASN:ND2	2:B:1419:LYS:O	2.16	0.77
2:E:1291:TYR:HB3	2:E:1296:LEU:HD21	1.65	0.77
1:D:698:LEU:HA	2:E:31:ILE:HG21	1.66	0.77
2:E:764:PHE:CD2	2:E:767:ILE:HD12	2.20	0.77
2:E:1407:LYS:HG3	2:E:1426:MET:HB2	1.67	0.77
2:E:1056:HIS:ND1	2:E:1057:GLU:OE2	2.17	0.77
2:B:764:PHE:CD2	2:B:767:ILE:HD12	2.20	0.77
2:B:1056:HIS:ND1	2:B:1057:GLU:OE2	2.17	0.77
2:B:1488:THR:HB	2:B:1508:SER:HB2	1.64	0.77
2:E:1524:LEU:HD12	2:E:1528:ARG:HH21	1.49	0.77
1:D:701:LEU:HD11	2:E:16:ILE:HA	1.66	0.77
3:F:2:GLN:HG2	3:F:51:VAL:HG23	1.67	0.77
2:B:1357:ARG:HE	2:B:1453:TYR:HA	1.50	0.76
2:E:37:ILE:HA	2:E:47:GLY:HA3	1.68	0.76
1:A:670:ASN:ND2	1:A:676:ASP:O	2.19	0.76
1:A:640:LEU:HB3	1:A:656:ALA:H	1.50	0.76
2:B:816:ALA:O	2:B:820:LEU:HB2	1.86	0.76
2:B:1028:LEU:HD21	2:B:1042:LEU:HD23	1.68	0.76
2:E:1155:LEU:HD11	2:E:1201:LEU:HD21	1.68	0.76
2:B:904:GLN:O	2:B:908:ASN:ND2	2.19	0.76
2:E:921:THR:O	2:E:925:ILE:N	2.19	0.76
2:B:37:ILE:HA	2:B:47:GLY:HA3	1.68	0.76
2:B:61:GLU:HA	2:B:64:ILE:HB	1.68	0.76
2:B:1524:LEU:HD12	2:B:1528:ARG:HH21	1.49	0.76
2:E:1357:ARG:HE	2:E:1453:TYR:HA	1.50	0.76
2:E:1252:ARG:NH1	2:E:1253:ASP:OD1	2.19	0.76
2:B:676:LEU:HA	2:B:679:ILE:HD12	1.68	0.76
2:B:1407:LYS:HG3	2:B:1426:MET:HB2	1.67	0.76
2:B:921:THR:O	2:B:925:ILE:N	2.19	0.76
2:B:1357:ARG:HH22	2:B:1456:ALA:H	1.31	0.76
2:B:1490:THR:O	2:B:1505:LYS:N	2.19	0.76
2:B:1561:GLY:O	2:B:1565:ASN:N	2.15	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:13:GLY:HA3	2:E:35:VAL:HG22	1.67	0.76
2:E:1490:THR:O	2:E:1505:LYS:N	2.19	0.76
2:B:1436:SER:HB3	2:B:1454:TYR:HB3	1.68	0.75
2:E:816:ALA:O	2:E:820:LEU:HB2	1.86	0.75
2:B:1155:LEU:HD11	2:B:1201:LEU:HD21	1.68	0.75
2:E:25:VAL:HG23	2:E:57:GLY:HA2	1.69	0.75
2:B:46:ARG:HB3	2:B:58:ILE:HG13	1.67	0.75
2:E:1028:LEU:HD21	2:E:1042:LEU:HD23	1.68	0.75
2:E:904:GLN:O	2:E:908:ASN:ND2	2.19	0.75
2:B:13:GLY:HA3	2:B:35:VAL:HG22	1.67	0.75
2:B:1252:ARG:NH1	2:B:1253:ASP:OD1	2.19	0.75
3:C:2:GLN:HG2	3:C:51:VAL:HG23	1.67	0.75
2:E:163:LEU:HD21	2:E:194:ILE:HD11	1.69	0.75
2:E:1432:LYS:N	2:E:1463:ARG:O	2.12	0.75
2:B:519:ILE:HG21	2:B:630:LYS:HB3	1.68	0.74
2:E:61:GLU:HA	2:E:64:ILE:HB	1.68	0.74
2:E:519:ILE:HG21	2:E:630:LYS:HB3	1.68	0.74
1:D:530:SER:HA	1:D:533:ILE:HD12	1.69	0.74
2:B:809:ALA:HB1	2:B:812:ILE:HB	1.70	0.74
2:E:676:LEU:HA	2:E:679:ILE:HD12	1.68	0.74
2:E:925:ILE:HA	2:E:928:ILE:HD12	1.69	0.74
2:E:1057:GLU:O	2:E:1080:ARG:NH1	2.21	0.74
2:B:297:VAL:HG22	2:B:326:VAL:HG22	1.69	0.74
2:B:319:ARG:O	2:B:500:VAL:N	2.20	0.74
1:D:670:ASN:ND2	1:D:676:ASP:O	2.19	0.74
2:E:1059:LEU:HD12	2:E:1116:PRO:HB2	1.70	0.74
2:B:288:ASP:HA	2:B:291:ARG:HE	1.52	0.74
2:B:1135:GLU:HA	2:B:1138:PHE:HB3	1.68	0.74
1:D:607:LYS:HG3	1:D:609:PRO:HD3	1.70	0.74
2:E:1586:VAL:HG23	2:E:1589:LEU:HD12	1.69	0.74
2:B:925:ILE:HA	2:B:928:ILE:HD12	1.69	0.74
2:B:1028:LEU:HA	2:B:1032:PHE:HD1	1.52	0.74
2:B:254:ILE:O	2:B:431:MET:N	2.20	0.74
2:B:1114:LEU:HB3	2:B:1163:ARG:HD2	1.70	0.74
2:B:1545:HIS:HB2	3:C:5:LYS:HE2	1.70	0.74
2:B:1567:GLU:HG3	2:B:1636:HIS:HE1	1.53	0.74
1:D:561:CYS:SG	1:D:594:SER:OG	2.46	0.74
2:E:1381:PHE:HA	2:E:1503:GLU:HA	1.69	0.74
2:E:1436:SER:HB3	2:E:1454:TYR:HB3	1.68	0.74
2:E:1521:THR:OG1	2:E:1566:TYR:OH	2.05	0.74
3:F:39:ASN:H	3:F:57:ASP:HB3	1.53	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:561:CYS:SG	1:A:594:SER:OG	2.46	0.73
2:B:1217:LYS:HD3	2:B:1220:ARG:HH12	1.52	0.73
3:C:93:VAL:HA	3:C:97:TRP:HB2	1.70	0.73
2:E:80:VAL:HG22	2:E:85:LEU:HD11	1.70	0.73
2:E:319:ARG:O	2:E:500:VAL:N	2.20	0.73
2:E:1217:LYS:HD3	2:E:1220:ARG:HH12	1.52	0.73
2:E:1028:LEU:HA	2:E:1032:PHE:HD1	1.52	0.73
2:B:1059:LEU:HD12	2:B:1116:PRO:HB2	1.70	0.73
2:B:1586:VAL:HG23	2:B:1589:LEU:HD12	1.69	0.73
2:E:12:TYR:HB2	2:E:67:LYS:HB2	1.69	0.73
1:A:530:SER:HA	1:A:533:ILE:HD12	1.69	0.73
2:E:256:GLU:OE1	2:E:447:TYR:OH	2.06	0.73
2:E:288:ASP:HA	2:E:291:ARG:HE	1.52	0.73
2:B:12:TYR:HB2	2:B:67:LYS:HB2	1.69	0.73
2:B:1381:PHE:HA	2:B:1503:GLU:HA	1.69	0.73
3:C:39:ASN:H	3:C:57:ASP:HB3	1.53	0.73
2:E:1114:LEU:HB3	2:E:1163:ARG:HD2	1.70	0.73
2:E:1488:THR:N	2:E:1508:SER:O	2.22	0.73
1:D:722:PHE:HE1	2:E:1:MET:HB3	1.52	0.73
2:B:25:VAL:HG23	2:B:57:GLY:HA2	1.69	0.73
2:B:163:LEU:HD21	2:B:194:ILE:HD11	1.69	0.73
2:E:1135:GLU:HA	2:E:1138:PHE:HB3	1.68	0.73
2:B:256:GLU:OE1	2:B:447:TYR:OH	2.06	0.73
2:B:105:LEU:HD22	2:B:110:LYS:HD3	1.71	0.72
2:E:1567:GLU:HG3	2:E:1636:HIS:HE1	1.53	0.72
2:E:225:TYR:HA	2:E:280:VAL:HG22	1.70	0.72
2:E:809:ALA:HB1	2:E:812:ILE:HB	1.70	0.72
3:F:9:VAL:HG21	3:F:101:VAL:HG21	1.71	0.72
1:A:607:LYS:HG3	1:A:609:PRO:HD3	1.70	0.72
2:B:1488:THR:N	2:B:1508:SER:O	2.22	0.72
2:B:1633:VAL:HA	2:B:1637:TYR:HB2	1.71	0.72
2:E:105:LEU:HD22	2:E:110:LYS:HD3	1.71	0.72
2:E:297:VAL:HG22	2:E:326:VAL:HG22	1.69	0.72
2:B:225:TYR:HA	2:B:280:VAL:HG22	1.70	0.72
2:E:1536:HIS:NE2	2:E:1609:GLU:OE2	2.21	0.72
2:B:1057:GLU:O	2:B:1080:ARG:NH1	2.21	0.72
2:E:1633:VAL:HA	2:E:1637:TYR:HB2	1.71	0.72
3:F:93:VAL:HA	3:F:97:TRP:HB2	1.70	0.72
2:B:80:VAL:HG22	2:B:85:LEU:HD11	1.70	0.72
2:B:737:LEU:HD12	2:B:740:TYR:HB2	1.72	0.72
2:E:737:LEU:HD12	2:E:740:TYR:HB2	1.72	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:896:LYS:HG3	2:E:897:PRO:HD3	1.71	0.72
2:B:1081:LYS:HE3	2:B:1119:GLU:HB2	1.72	0.72
2:B:771:ARG:NH1	2:B:781:SER:OG	2.23	0.71
3:C:9:VAL:HG21	3:C:101:VAL:HG21	1.72	0.71
2:E:771:ARG:NH1	2:E:781:SER:OG	2.23	0.71
2:B:928:ILE:HA	2:B:932:LEU:HD13	1.72	0.71
2:E:979:ARG:NH2	2:E:1035:GLN:OE1	2.24	0.71
2:E:1110:LEU:HD21	2:E:1151:LEU:HG	1.72	0.71
2:B:482:LYS:HE2	2:B:491:GLU:HG2	1.73	0.71
2:B:1080:ARG:NH2	2:B:1117:GLU:OE2	2.23	0.71
2:E:695:ASP:OD1	2:E:740:TYR:OH	2.08	0.71
2:E:1080:ARG:NH2	2:E:1117:GLU:OE2	2.23	0.71
2:E:1081:LYS:HE3	2:E:1119:GLU:HB2	1.72	0.71
2:B:979:ARG:NH2	2:B:1035:GLN:OE1	2.24	0.71
2:E:1019:ARG:O	2:E:1023:GLN:NE2	2.21	0.71
2:B:1099:ILE:HA	2:B:1102:ILE:HD12	1.72	0.71
2:E:879:LEU:HD23	2:E:927:LEU:HD22	1.73	0.71
2:E:1099:ILE:HA	2:E:1102:ILE:HD12	1.72	0.71
2:B:12:TYR:HA	2:B:34:THR:HG23	1.72	0.71
2:B:1102:ILE:HG12	2:B:1131:MET:HB2	1.73	0.71
2:B:103:ARG:HH12	2:B:104:LYS:HE3	1.55	0.71
2:B:896:LYS:HG3	2:B:897:PRO:HD3	1.71	0.71
2:E:928:ILE:HA	2:E:932:LEU:HD13	1.72	0.70
2:E:1102:ILE:HG12	2:E:1131:MET:HB2	1.73	0.70
2:E:1328:TYR:HB3	2:E:1338:LEU:HD22	1.72	0.70
2:E:1033:MET:SD	2:E:1093:ASN:ND2	2.65	0.70
1:A:701:LEU:HD11	2:B:16:ILE:HA	1.72	0.70
2:B:1059:LEU:O	2:B:1063:THR:OG1	2.09	0.70
2:E:1410:SER:OG	2:E:1413:PRO:O	2.08	0.70
2:B:575:ASP:HB3	2:B:578:LYS:HB2	1.73	0.70
2:B:1328:TYR:HB3	2:B:1338:LEU:HD22	1.72	0.70
2:B:1410:SER:OG	2:B:1413:PRO:O	2.08	0.70
2:E:103:ARG:HH12	2:E:104:LYS:HE3	1.55	0.70
2:E:472:VAL:HG22	2:E:527:ILE:HG12	1.73	0.70
3:F:66:ARG:HG2	3:F:67:LEU:HG	1.74	0.70
3:F:87:PRO:HA	3:F:137:ILE:HD11	1.73	0.70
2:B:964:MET:HG2	2:B:969:TYR:CE1	2.27	0.70
2:B:1110:LEU:HD21	2:B:1151:LEU:HG	1.72	0.70
2:B:1622:LEU:O	2:B:1626:PHE:HB3	1.91	0.70
2:E:12:TYR:HA	2:E:34:THR:HG23	1.72	0.70
2:E:1322:LYS:HD3	2:E:1345:ARG:NH1	2.06	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:879:LEU:HD23	2:B:927:LEU:HD22	1.73	0.70
2:E:1622:LEU:O	2:E:1626:PHE:HB3	1.91	0.70
2:E:1630:LYS:O	2:E:1634:GLU:HG2	1.92	0.70
2:E:98:TRP:O	2:E:101:ILE:HG22	1.91	0.70
2:E:254:ILE:O	2:E:431:MET:N	2.20	0.70
2:B:472:VAL:HG22	2:B:527:ILE:HG12	1.73	0.70
2:E:1218:GLU:OE1	2:E:1218:GLU:N	2.25	0.70
2:B:695:ASP:OD1	2:B:740:TYR:OH	2.08	0.70
2:B:1630:LYS:O	2:B:1634:GLU:HG2	1.92	0.70
2:E:451:ILE:HD11	2:E:623:ALA:HB2	1.74	0.70
2:E:575:ASP:HB3	2:E:578:LYS:HB2	1.73	0.70
2:E:1294:GLN:N	2:E:1294:GLN:OE1	2.25	0.70
2:B:451:ILE:HD12	2:B:621:GLN:HG2	1.74	0.69
2:E:482:LYS:HE2	2:E:491:GLU:HG2	1.73	0.69
2:B:775:LEU:HD23	2:B:781:SER:HB2	1.74	0.69
2:B:1231:TYR:O	2:B:1235:LYS:N	2.25	0.69
2:B:1322:LYS:HD3	2:B:1345:ARG:NH1	2.06	0.69
3:C:71:SER:O	3:C:75:THR:OG1	2.09	0.69
2:E:964:MET:HG2	2:E:969:TYR:CE1	2.27	0.69
2:E:1121:ARG:O	2:E:1125:ILE:HD12	1.91	0.69
2:E:1231:TYR:O	2:E:1235:LYS:N	2.25	0.69
2:E:1428:CYS:SG	2:E:1429:PHE:N	2.65	0.69
2:B:1006:TRP:HB3	2:B:1009:MET:HB2	1.73	0.69
2:B:1033:MET:SD	2:B:1093:ASN:ND2	2.65	0.69
2:E:1231:TYR:HD1	2:E:1236:ARG:HB3	1.58	0.69
2:B:1121:ARG:O	2:B:1125:ILE:HD12	1.91	0.69
2:E:451:ILE:HD12	2:E:621:GLN:HG2	1.74	0.69
2:B:98:TRP:O	2:B:101:ILE:HG22	1.92	0.69
2:B:1218:GLU:OE1	2:B:1218:GLU:N	2.25	0.69
3:F:39:ASN:HA	3:F:57:ASP:H	1.57	0.69
2:B:1294:GLN:OE1	2:B:1294:GLN:N	2.24	0.69
2:B:1521:THR:OG1	2:B:1566:TYR:OH	2.06	0.69
2:E:1006:TRP:HB3	2:E:1009:MET:HB2	1.73	0.69
3:C:119:LEU:HA	3:C:122:ASP:HB2	1.75	0.69
2:E:445:ASP:HB3	2:E:447:TYR:HE2	1.58	0.69
2:B:1231:TYR:HD1	2:B:1236:ARG:HB3	1.58	0.69
2:B:1428:CYS:SG	2:B:1429:PHE:N	2.65	0.69
3:C:39:ASN:HA	3:C:57:ASP:H	1.57	0.69
3:C:66:ARG:HG2	3:C:67:LEU:HG	1.73	0.69
1:D:584:LYS:HD2	2:E:1403:PRO:HA	1.74	0.69
2:E:954:VAL:O	2:E:958:ILE:HG12	1.93	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:722:PHE:HE1	2:B:1:MET:HB3	1.56	0.68
2:B:451:ILE:HD11	2:B:623:ALA:HB2	1.74	0.68
3:C:87:PRO:HA	3:C:137:ILE:HD11	1.73	0.68
2:E:41:TYR:HD2	2:E:44:TRP:HB2	1.59	0.68
2:E:474:ASP:HA	2:E:525:CYS:HA	1.75	0.68
2:E:1357:ARG:HH12	2:E:1456:ALA:HB3	1.58	0.68
2:B:928:ILE:HG23	2:B:932:LEU:HD22	1.76	0.68
2:B:1357:ARG:HH12	2:B:1456:ALA:HB3	1.58	0.68
2:E:954:VAL:HA	2:E:957:MET:SD	2.33	0.68
2:E:871:GLN:HE22	2:E:913:LEU:HA	1.58	0.68
2:E:1404:ASN:OD1	2:E:1424:GLN:HB2	1.93	0.68
2:E:36:HIS:N	2:E:48:TYR:O	2.27	0.68
2:E:879:LEU:HD22	2:E:924:HIS:CE1	2.29	0.68
3:F:71:SER:O	3:F:75:THR:OG1	2.09	0.68
2:B:1024:PHE:HA	2:B:1027:VAL:HG12	1.76	0.68
2:E:1307:TYR:O	2:E:1311:GLY:N	2.27	0.68
3:F:119:LEU:HA	3:F:122:ASP:HB2	1.75	0.68
2:E:166:ARG:O	2:E:171:ASN:HA	1.94	0.68
2:E:485:HIS:HB2	2:E:514:LYS:HB3	1.76	0.68
2:B:166:ARG:O	2:B:171:ASN:HA	1.94	0.68
2:B:445:ASP:HB3	2:B:447:TYR:HE2	1.58	0.68
2:E:449:THR:HB	2:E:623:ALA:HB3	1.76	0.68
2:E:1135:GLU:O	2:E:1139:SER:N	2.27	0.68
2:B:871:GLN:HE22	2:B:913:LEU:HA	1.58	0.67
2:B:1404:ASN:OD1	2:B:1424:GLN:HB2	1.93	0.67
2:B:41:TYR:HD2	2:B:44:TRP:HB2	1.59	0.67
2:E:95:LEU:HD21	2:E:124:LEU:HD13	1.75	0.67
2:E:775:LEU:HD23	2:E:781:SER:HB2	1.74	0.67
2:E:1597:MET:HG3	2:E:1600:LEU:HD12	1.76	0.67
2:B:954:VAL:HA	2:B:957:MET:SD	2.34	0.67
2:B:1120:LEU:O	2:B:1124:THR:OG1	2.11	0.67
2:B:1597:MET:HG3	2:B:1600:LEU:HD12	1.76	0.67
3:C:37:PHE:HB2	3:C:40:TYR:HE1	1.60	0.67
2:E:928:ILE:HG23	2:E:932:LEU:HD22	1.76	0.67
2:B:36:HIS:N	2:B:48:TYR:O	2.27	0.67
2:B:471:SER:O	2:B:528:ARG:N	2.27	0.67
2:B:474:ASP:HA	2:B:525:CYS:HA	1.75	0.67
2:B:1333:PHE:HZ	2:E:1444:LYS:HD3	1.60	0.67
2:E:5:ILE:HB	2:E:40:MET:HB2	1.75	0.67
2:E:1059:LEU:O	2:E:1063:THR:OG1	2.09	0.67
3:F:37:PHE:HB2	3:F:40:TYR:HE1	1.60	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:613:ILE:HD13	1:A:646:TYR:HB3	1.76	0.67
3:C:130:LYS:HE3	3:C:136:PRO:HD3	1.76	0.67
1:D:613:ILE:HD13	1:D:646:TYR:HB3	1.76	0.67
2:E:471:SER:O	2:E:528:ARG:N	2.27	0.67
2:E:485:HIS:N	2:E:514:LYS:O	2.22	0.67
2:E:1388:TYR:HD2	3:F:45:MET:HE2	1.60	0.67
2:B:4:TRP:CE2	2:B:46:ARG:HD3	2.30	0.67
2:B:240:GLU:OE2	2:B:319:ARG:NE	2.26	0.67
2:B:954:VAL:O	2:B:958:ILE:HG12	1.93	0.67
2:B:1307:TYR:O	2:B:1311:GLY:N	2.27	0.67
2:E:102:TRP:HB2	2:E:114:PHE:CE1	2.27	0.67
2:B:105:LEU:HD13	2:B:110:LYS:HZ2	1.60	0.67
2:E:1364:ALA:HA	2:E:1382:ILE:HA	1.77	0.67
2:B:5:ILE:HB	2:B:40:MET:HB2	1.76	0.67
2:B:879:LEU:HD22	2:B:924:HIS:CE1	2.29	0.67
2:B:1135:GLU:O	2:B:1139:SER:N	2.27	0.67
2:B:1536:HIS:NE2	2:B:1609:GLU:OE2	2.21	0.67
3:C:61:GLN:O	3:C:68:ARG:NH2	2.28	0.67
2:E:890:LEU:HD12	2:E:935:ARG:HG3	1.77	0.67
2:E:972:TYR:OH	2:E:977:LYS:NZ	2.27	0.67
1:A:567:ALA:HA	1:A:571:GLN:HB2	1.78	0.66
2:B:95:LEU:HD21	2:B:124:LEU:HD13	1.75	0.66
2:B:485:HIS:HB2	2:B:514:LYS:HB3	1.76	0.66
2:B:1491:THR:HG22	2:B:1493:TYR:H	1.59	0.66
2:B:1536:HIS:HD2	2:B:1606:ILE:HB	1.60	0.66
2:E:1120:LEU:O	2:E:1124:THR:OG1	2.11	0.66
2:B:96:ARG:NH1	2:B:97:GLU:OE2	2.28	0.66
2:E:79:THR:HA	2:E:85:LEU:HD22	1.78	0.66
2:E:95:LEU:HA	2:E:98:TRP:HD1	1.60	0.66
2:E:172:ILE:HA	2:E:175:PRO:HG2	1.77	0.66
3:F:61:GLN:O	3:F:68:ARG:NH2	2.28	0.66
2:B:172:ILE:HA	2:B:175:PRO:HG2	1.77	0.66
2:B:860:MET:HA	2:B:863:ILE:HD12	1.76	0.66
2:B:890:LEU:HD12	2:B:935:ARG:HG3	1.77	0.66
3:C:100:GLU:O	3:C:104:HIS:ND1	2.27	0.66
2:E:938:ARG:HA	2:E:941:ILE:HD12	1.78	0.66
2:E:946:GLN:HA	2:E:950:ILE:HG21	1.77	0.66
2:B:449:THR:HB	2:B:623:ALA:HB3	1.76	0.66
2:B:1364:ALA:HA	2:B:1382:ILE:HA	1.77	0.66
2:B:95:LEU:HA	2:B:98:TRP:HD1	1.60	0.66
2:E:860:MET:HA	2:E:863:ILE:HD12	1.77	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1491:THR:HG22	2:E:1493:TYR:H	1.59	0.66
3:F:100:GLU:O	3:F:104:HIS:ND1	2.27	0.66
3:F:130:LYS:HE3	3:F:136:PRO:HD3	1.76	0.66
2:B:450:LEU:O	2:B:510:TYR:N	2.28	0.66
2:B:938:ARG:HA	2:B:941:ILE:HD12	1.78	0.66
2:E:1536:HIS:HD2	2:E:1606:ILE:HB	1.60	0.66
1:D:578:ARG:HB3	1:D:587:HIS:HB2	1.77	0.66
2:E:96:ARG:NH1	2:E:97:GLU:OE2	2.28	0.66
1:A:615:ALA:HB3	1:A:645:LEU:HD12	1.78	0.66
2:B:1631:GLU:OE1	2:B:1635:LYS:NZ	2.28	0.66
2:E:1024:PHE:HA	2:E:1027:VAL:HG12	1.76	0.66
2:B:35:VAL:HG12	2:B:49:THR:HA	1.77	0.66
2:B:561:THR:HG21	2:B:631:LEU:HB3	1.77	0.66
2:B:1314:TRP:HB2	2:B:1352:ILE:HD11	1.78	0.66
2:B:1596:GLN:O	2:B:1600:LEU:N	2.26	0.66
2:E:561:THR:HG21	2:E:631:LEU:HB3	1.77	0.66
2:B:946:GLN:HA	2:B:950:ILE:HG21	1.77	0.65
2:B:1369:GLY:N	2:B:1418:ILE:O	2.30	0.65
3:C:4:ILE:HG13	3:C:76:ASP:HB2	1.76	0.65
2:E:35:VAL:HG12	2:E:49:THR:HA	1.77	0.65
2:E:757:LEU:HD23	2:E:760:LEU:HD11	1.79	0.65
2:E:1369:GLY:N	2:E:1418:ILE:O	2.30	0.65
2:E:1631:GLU:OE1	2:E:1635:LYS:NZ	2.28	0.65
1:A:578:ARG:HB3	1:A:587:HIS:HB2	1.77	0.65
1:D:567:ALA:HA	1:D:571:GLN:HB2	1.77	0.65
2:E:136:LEU:HD12	2:E:140:GLU:HG2	1.78	0.65
3:F:4:ILE:HG13	3:F:76:ASP:HB2	1.77	0.65
2:B:79:THR:HG22	2:B:85:LEU:HB2	1.77	0.65
2:B:204:ILE:HG13	2:B:211:ARG:HB3	1.79	0.65
2:E:1367:TYR:O	2:E:1378:ASN:N	2.27	0.65
2:B:94:THR:HG21	2:B:152:ILE:HG12	1.79	0.65
2:B:1586:VAL:HA	2:B:1589:LEU:HG	1.79	0.65
2:E:4:TRP:CE2	2:E:46:ARG:HD3	2.30	0.65
2:E:450:LEU:O	2:E:510:TYR:N	2.28	0.65
2:B:136:LEU:HD12	2:B:140:GLU:HG2	1.78	0.65
2:B:1124:THR:HG23	2:B:1127:ILE:HD12	1.79	0.65
2:B:1372:PHE:O	2:B:1377:ARG:NH2	2.28	0.65
3:C:23:TYR:HB2	3:C:165:LEU:HD21	1.79	0.65
1:D:615:ALA:HB3	1:D:645:LEU:HD12	1.78	0.65
2:E:79:THR:HG22	2:E:85:LEU:HB2	1.77	0.65
2:B:79:THR:HA	2:B:85:LEU:HD22	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1248:ARG:NH1	2:B:1249:ASP:OD1	2.30	0.65
2:E:157:ARG:NH1	2:E:157:ARG:O	2.29	0.65
2:E:243:MET:HG3	2:E:281:PHE:HZ	1.62	0.65
2:E:1314:TRP:HB2	2:E:1352:ILE:HD11	1.78	0.65
2:E:1579:HIS:HB3	2:E:1582:ASP:OD1	1.96	0.65
2:E:204:ILE:HG13	2:E:211:ARG:HB3	1.79	0.65
2:B:1463:ARG:HA	2:B:1487:THR:O	1.96	0.65
2:E:821:PRO:HG3	2:E:863:ILE:HG13	1.79	0.65
2:E:1057:GLU:HA	2:E:1061:LEU:HD13	1.79	0.65
1:A:624:HIS:HD2	1:A:633:GLN:HG3	1.62	0.65
2:B:481:GLU:OE1	2:B:494:SER:OG	2.13	0.65
2:B:1315:GLU:OE1	2:B:1315:GLU:N	2.28	0.65
2:E:1124:THR:HG23	2:E:1127:ILE:HD12	1.79	0.65
2:E:1353:ILE:HA	2:E:1449:GLN:HG2	1.79	0.65
2:E:1463:ARG:HA	2:E:1487:THR:O	1.96	0.65
1:D:576:TYR:HB2	1:D:598:GLU:HG2	1.79	0.65
2:E:1533:VAL:HA	2:E:1606:ILE:HD13	1.79	0.65
2:B:1167:GLN:OE1	2:B:1167:GLN:N	2.31	0.64
2:B:302:ARG:HD3	2:B:322:PHE:HD1	1.61	0.64
2:B:1579:HIS:HB3	2:B:1582:ASP:OD1	1.96	0.64
2:E:302:ARG:HD3	2:E:322:PHE:HD1	1.61	0.64
3:F:12:GLY:H	3:F:60:GLY:HA3	1.62	0.64
3:F:80:ILE:HG23	3:F:112:LEU:HA	1.79	0.64
2:B:102:TRP:HB2	2:B:114:PHE:CE1	2.27	0.64
3:F:23:TYR:HB2	3:F:165:LEU:HD21	1.79	0.64
1:D:667:ASP:OD1	1:D:678:MET:N	2.31	0.64
2:E:1197:VAL:O	2:E:1201:LEU:HG	1.98	0.64
2:E:256:GLU:HB3	2:E:431:MET:HE3	1.80	0.64
2:B:187:HIS:CE1	2:B:1006:TRP:HA	2.33	0.64
2:B:430:LYS:NZ	2:B:433:PHE:O	2.28	0.64
3:C:80:ILE:HG23	3:C:112:LEU:HA	1.79	0.64
2:E:268:PRO:HG2	2:E:274:LEU:HB2	1.80	0.64
2:B:757:LEU:HD23	2:B:760:LEU:HD11	1.79	0.64
1:D:624:HIS:HD2	1:D:633:GLN:HG3	1.62	0.64
2:E:166:ARG:O	2:E:171:ASN:ND2	2.28	0.64
2:E:187:HIS:CE1	2:E:1006:TRP:HA	2.33	0.64
2:E:1586:VAL:HA	2:E:1589:LEU:HG	1.79	0.64
2:B:268:PRO:HG2	2:B:274:LEU:HB2	1.80	0.64
2:B:1336:GLU:OE1	2:B:1336:GLU:N	2.19	0.64
2:E:821:PRO:HB2	2:E:862:LYS:HB3	1.80	0.64
2:B:757:LEU:HD13	2:B:815:ALA:HB3	1.80	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1390:ARG:NH2	3:C:26:ASN:OD1	2.30	0.64
2:E:1596:GLN:O	2:E:1600:LEU:N	2.26	0.64
3:C:12:GLY:H	3:C:60:GLY:HA3	1.62	0.64
1:D:584:LYS:HG3	1:D:585:VAL:HG13	1.80	0.64
2:E:225:TYR:N	2:E:404:LYS:O	2.28	0.64
2:E:481:GLU:OE1	2:E:494:SER:OG	2.13	0.64
2:B:821:PRO:HB2	2:B:862:LYS:HB3	1.80	0.63
2:B:1353:ILE:HA	2:B:1449:GLN:HG2	1.79	0.63
3:C:116:LYS:HD2	3:C:119:LEU:HD12	1.80	0.63
2:E:187:HIS:NE2	2:E:1006:TRP:HA	2.12	0.63
2:E:1248:ARG:NH1	2:E:1249:ASP:OD1	2.30	0.63
2:E:1495:PHE:HE1	2:E:1502:PHE:HD2	1.45	0.63
3:F:146:ALA:O	3:F:150:GLY:N	2.30	0.63
1:A:667:ASP:OD1	1:A:678:MET:N	2.31	0.63
2:B:821:PRO:HG3	2:B:863:ILE:HG13	1.79	0.63
2:B:1197:VAL:O	2:B:1201:LEU:HG	1.98	0.63
2:E:1280:PRO:HA	2:E:1283:LEU:HB2	1.80	0.63
1:A:576:TYR:HB2	1:A:598:GLU:HG2	1.79	0.63
2:B:243:MET:HG3	2:B:281:PHE:HZ	1.62	0.63
2:B:244:ALA:HB2	2:B:257:ASN:HA	1.80	0.63
2:B:857:LEU:HD22	2:B:905:LEU:HD11	1.80	0.63
2:E:1315:GLU:OE1	2:E:1315:GLU:N	2.29	0.63
1:A:584:LYS:HG3	1:A:585:VAL:HG13	1.80	0.63
2:B:1135:GLU:OE1	2:B:1144:PHE:HA	1.99	0.63
2:B:1361:GLU:OE1	2:B:1361:GLU:N	2.30	0.63
2:B:1533:VAL:HA	2:B:1606:ILE:HD13	1.79	0.63
2:E:569:LEU:N	2:E:620:PHE:O	2.32	0.63
2:E:676:LEU:HB3	2:E:693:VAL:HG13	1.80	0.63
2:B:1057:GLU:HA	2:B:1061:LEU:HD13	1.79	0.63
2:B:1221:MET:HA	2:B:1224:THR:HG22	1.81	0.63
2:E:105:LEU:HD13	2:E:110:LYS:HZ2	1.63	0.63
2:B:182:ALA:HA	2:B:185:LYS:NZ	2.14	0.63
2:B:256:GLU:HB3	2:B:431:MET:HE3	1.79	0.63
2:B:839:LEU:HA	2:B:842:LYS:HD2	1.81	0.63
2:B:1019:ARG:O	2:B:1023:GLN:NE2	2.21	0.63
2:B:1241:ILE:HA	2:B:1244:LEU:HD12	1.81	0.63
2:E:69:ALA:HB2	2:E:78:GLU:HG2	1.81	0.63
2:E:1135:GLU:OE1	2:E:1144:PHE:HA	1.99	0.63
1:A:722:PHE:CE1	2:B:1:MET:HB3	2.33	0.63
2:B:225:TYR:N	2:B:404:LYS:O	2.28	0.63
2:B:973:ILE:HA	2:B:976:PHE:CE2	2.34	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1368:TYR:O	2:B:1425:TYR:N	2.31	0.63
2:B:1571:PHE:HA	2:B:1586:VAL:HG21	1.81	0.63
2:E:94:THR:HG21	2:E:152:ILE:HG12	1.79	0.63
2:E:746:ASP:O	2:E:750:THR:OG1	2.10	0.63
2:E:1167:GLN:OE1	2:E:1167:GLN:N	2.31	0.63
2:E:1221:MET:HA	2:E:1224:THR:HG22	1.81	0.63
2:B:285:SER:N	2:B:288:ASP:OD2	2.32	0.63
3:C:21:ILE:HD13	3:C:34:PRO:HA	1.80	0.63
1:D:548:ILE:HG21	1:D:682:THR:HG23	1.81	0.63
2:E:182:ALA:HA	2:E:185:LYS:NZ	2.14	0.63
2:E:760:LEU:HB3	2:E:823:ILE:HG21	1.80	0.63
2:B:187:HIS:NE2	2:B:1006:TRP:HA	2.13	0.63
2:B:569:LEU:N	2:B:620:PHE:O	2.32	0.63
2:B:761:LYS:HB2	2:B:822:SER:HB2	1.80	0.63
2:B:1126:PRO:HB3	2:B:1179:HIS:CE1	2.34	0.63
1:D:551:GLN:HG3	2:E:106:TYR:CE2	2.34	0.63
2:E:244:ALA:HB2	2:E:257:ASN:HA	1.80	0.63
2:E:798:PHE:O	2:E:802:MET:HG3	1.99	0.63
2:E:973:ILE:HA	2:E:976:PHE:CE2	2.34	0.63
2:B:719:TYR:CD1	2:B:723:HIS:HB2	2.34	0.62
2:B:798:PHE:O	2:B:802:MET:HG3	1.99	0.62
2:B:1280:PRO:HA	2:B:1283:LEU:HB2	1.80	0.62
2:E:719:TYR:CD1	2:E:723:HIS:HB2	2.34	0.62
2:E:1336:GLU:OE1	2:E:1336:GLU:N	2.18	0.62
2:E:757:LEU:HD13	2:E:815:ALA:HB3	1.80	0.62
2:E:1126:PRO:HB3	2:E:1179:HIS:CE1	2.34	0.62
2:E:1372:PHE:O	2:E:1377:ARG:NH2	2.28	0.62
2:E:1571:PHE:HA	2:E:1586:VAL:HG21	1.81	0.62
3:F:171:GLU:HG3	3:F:174:ARG:HH11	1.64	0.62
2:B:69:ALA:HB2	2:B:78:GLU:HG2	1.81	0.62
2:B:70:THR:HG22	2:B:71:VAL:H	1.64	0.62
2:E:1361:GLU:OE1	2:E:1361:GLU:N	2.30	0.62
3:F:21:ILE:HD13	3:F:34:PRO:HA	1.81	0.62
1:A:716:GLU:HG3	2:B:44:TRP:CZ2	2.34	0.62
2:B:1495:PHE:HE1	2:B:1502:PHE:HD2	1.45	0.62
2:E:761:LYS:HB2	2:E:822:SER:HB2	1.81	0.62
2:B:243:MET:O	2:B:258:TYR:N	2.23	0.62
2:B:1247:LEU:HA	2:B:1250:LEU:HD12	1.81	0.62
2:B:1367:TYR:O	2:B:1378:ASN:N	2.27	0.62
2:E:243:MET:O	2:E:258:TYR:N	2.24	0.62
2:E:839:LEU:HA	2:E:842:LYS:HD2	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:95:LEU:HA	2:B:98:TRP:CD1	2.34	0.62
2:B:166:ARG:HD3	2:B:173:LEU:HB2	1.82	0.62
2:B:1330:SER:O	2:E:1444:LYS:NZ	2.26	0.62
1:D:536:LEU:HD21	2:E:17:TYR:HB2	1.80	0.62
2:E:15:ALA:HA	2:E:59:PHE:CE2	2.35	0.62
2:E:95:LEU:HA	2:E:98:TRP:CD1	2.34	0.62
2:E:138:LYS:HA	2:E:141:LEU:HB2	1.81	0.62
2:E:493:ILE:HD11	2:E:496:TYR:HD1	1.65	0.62
2:E:285:SER:N	2:E:288:ASP:OD2	2.32	0.62
2:E:866:SER:O	2:E:868:LEU:N	2.32	0.62
2:E:1247:LEU:HA	2:E:1250:LEU:HD12	1.81	0.62
3:F:116:LYS:HD2	3:F:119:LEU:HD12	1.80	0.62
2:B:157:ARG:NH1	2:B:157:ARG:O	2.29	0.62
2:B:496:TYR:CZ	2:B:513:VAL:HG11	2.35	0.62
2:B:972:TYR:OH	2:B:977:LYS:NZ	2.27	0.62
2:E:1122:LYS:HD3	2:E:1175:LEU:HD21	1.82	0.62
2:B:5:ILE:H	2:B:40:MET:N	1.95	0.62
2:B:509:TRP:HB3	2:B:511:GLU:HG3	1.82	0.62
2:B:1016:VAL:HG23	2:B:1017:PHE:HD1	1.65	0.62
2:B:1372:PHE:CE2	2:B:1424:GLN:HB3	2.34	0.62
2:E:1372:PHE:CE2	2:E:1424:GLN:HB3	2.34	0.62
2:E:1463:ARG:NE	2:E:1486:ARG:HE	1.98	0.62
2:B:443:ARG:HG3	2:B:628:SER:HA	1.82	0.62
2:E:857:LEU:HD22	2:E:905:LEU:HD11	1.80	0.62
2:E:879:LEU:HG	2:E:931:ARG:HH21	1.65	0.62
2:E:1016:VAL:HG23	2:E:1017:PHE:HD1	1.65	0.62
2:B:180:THR:O	2:B:184:PHE:N	2.33	0.61
2:B:760:LEU:HB3	2:B:823:ILE:HG21	1.80	0.61
2:E:240:GLU:OE2	2:E:319:ARG:NE	2.26	0.61
2:E:1241:ILE:HA	2:E:1244:LEU:HD12	1.81	0.61
2:E:1375:PHE:CE2	2:E:1376:LEU:HG	2.35	0.61
1:A:617:VAL:HG13	1:A:645:LEU:HD21	1.81	0.61
2:B:15:ALA:HA	2:B:59:PHE:CE2	2.35	0.61
2:B:1463:ARG:NE	2:B:1486:ARG:HE	1.98	0.61
2:E:1170:VAL:HG12	2:E:1174:LYS:HE2	1.82	0.61
2:E:1227:VAL:HA	2:E:1230:PHE:CD2	2.35	0.61
2:E:1238:ASP:OD1	2:E:1239:ILE:N	2.31	0.61
2:E:1532:CYS:O	2:E:1535:GLN:NE2	2.30	0.61
2:B:719:TYR:HA	2:B:723:HIS:HD2	1.66	0.61
2:B:1122:LYS:HD3	2:B:1175:LEU:HD21	1.82	0.61
3:C:171:GLU:HG3	3:C:174:ARG:HH11	1.64	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:496:TYR:CZ	2:E:513:VAL:HG11	2.35	0.61
2:E:936:ILE:HD12	2:E:939:THR:HB	1.82	0.61
2:E:1065:SER:O	2:E:1069:ARG:NH1	2.34	0.61
2:E:1080:ARG:HA	2:E:1083:ILE:HD12	1.82	0.61
2:B:138:LYS:HA	2:B:141:LEU:HB2	1.81	0.61
2:B:1231:TYR:HH	2:B:1243:TYR:HE1	1.47	0.61
1:D:701:LEU:HD23	2:E:31:ILE:HG23	1.82	0.61
2:B:166:ARG:O	2:B:171:ASN:ND2	2.28	0.61
2:B:1065:SER:O	2:B:1069:ARG:NH1	2.34	0.61
1:D:580:SER:HA	1:D:587:HIS:CE1	2.30	0.61
2:B:676:LEU:HB3	2:B:693:VAL:HG13	1.80	0.61
2:B:879:LEU:HG	2:B:931:ARG:HH21	1.65	0.61
2:E:100:VAL:HA	2:E:103:ARG:HG2	1.83	0.61
2:B:523:THR:HA	2:B:555:MET:SD	2.40	0.61
2:B:979:ARG:HD3	2:B:1039:GLU:OE2	2.01	0.61
1:A:726:CYS:HA	2:B:46:ARG:NH2	2.15	0.61
2:B:493:ILE:HD11	2:B:496:TYR:HD1	1.65	0.61
2:E:1125:ILE:HG12	2:E:1172:LEU:HA	1.83	0.61
1:A:548:ILE:HG21	1:A:682:THR:HG23	1.81	0.61
2:B:936:ILE:HD12	2:B:939:THR:HB	1.82	0.61
2:B:970:SER:O	2:B:974:SER:OG	2.15	0.61
3:C:42:ALA:HB3	3:C:53:LEU:HD11	1.82	0.61
2:E:166:ARG:HD3	2:E:173:LEU:HB2	1.81	0.61
2:E:443:ARG:HG3	2:E:628:SER:HA	1.82	0.61
2:E:523:THR:HA	2:E:555:MET:SD	2.41	0.61
2:B:1227:VAL:HA	2:B:1230:PHE:CD2	2.35	0.61
2:E:843:PHE:O	2:E:846:SER:OG	2.19	0.61
2:B:326:VAL:HB	2:B:386:VAL:HG12	1.83	0.60
2:B:1480:ALA:HA	2:B:1514:PRO:HB3	1.83	0.60
3:C:94:ARG:CZ	3:C:145:MET:HG2	2.31	0.60
1:D:697:ARG:NH1	2:E:30:GLN:HG3	2.16	0.60
2:E:70:THR:HG22	2:E:71:VAL:H	1.64	0.60
2:E:1243:TYR:HA	2:E:1246:LYS:HG2	1.83	0.60
3:F:7:VAL:HG21	3:F:71:SER:HB3	1.83	0.60
1:D:711:PRO:O	2:E:63:TYR:OH	2.06	0.60
2:E:701:ILE:HG21	2:E:763:LEU:HD21	1.83	0.60
2:E:857:LEU:HB3	2:E:905:LEU:HD21	1.83	0.60
2:E:961:LEU:O	2:E:969:TYR:OH	2.19	0.60
2:B:882:LEU:O	2:B:885:GLN:HG2	2.02	0.60
2:B:1170:VAL:HG12	2:B:1174:LYS:HE2	1.83	0.60
2:B:1375:PHE:CE2	2:B:1376:LEU:HG	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:326:VAL:HB	2:E:386:VAL:HG12	1.83	0.60
2:E:719:TYR:HA	2:E:723:HIS:HD2	1.65	0.60
3:F:94:ARG:CZ	3:F:145:MET:HG2	2.31	0.60
2:B:485:HIS:N	2:B:514:LYS:O	2.22	0.60
2:B:1243:TYR:HA	2:B:1246:LYS:HG2	1.83	0.60
2:B:1532:CYS:O	2:B:1535:GLN:NE2	2.30	0.60
2:E:1258:THR:HG22	2:E:1262:TYR:CE2	2.36	0.60
2:E:1459:VAL:HG23	2:E:1495:PHE:HB2	1.84	0.60
2:B:85:LEU:O	2:B:88:VAL:HG22	2.02	0.60
2:B:565:GLY:N	2:B:624:THR:O	2.34	0.60
2:B:866:SER:O	2:B:868:LEU:N	2.33	0.60
2:B:1006:TRP:HE3	2:B:1009:MET:HG3	1.67	0.60
2:B:1080:ARG:HA	2:B:1083:ILE:HD12	1.82	0.60
2:B:1206:ASP:O	2:B:1209:THR:HG22	2.02	0.60
2:B:1258:THR:HG22	2:B:1262:TYR:CE2	2.37	0.60
2:E:467:GLU:OE2	2:E:534:ARG:NH1	2.35	0.60
2:B:94:THR:HG22	2:B:98:TRP:NE1	2.16	0.60
2:B:857:LEU:HB3	2:B:905:LEU:HD21	1.83	0.60
2:B:961:LEU:O	2:B:969:TYR:OH	2.19	0.60
2:B:964:MET:O	2:B:1019:ARG:NH2	2.34	0.60
3:C:11:ASP:OD1	3:C:16:LYS:NZ	2.35	0.60
1:D:617:VAL:HG13	1:D:645:LEU:HD21	1.81	0.60
1:D:711:PRO:HG2	2:E:16:ILE:HG21	1.82	0.60
2:E:34:THR:HB	2:E:50:LEU:HD12	1.83	0.60
2:E:94:THR:HG22	2:E:98:TRP:NE1	2.16	0.60
1:A:580:SER:HB3	1:A:584:LYS:H	1.67	0.60
2:B:256:GLU:HG3	2:B:488:ALA:HB2	1.83	0.60
2:B:701:ILE:HG21	2:B:763:LEU:HD21	1.83	0.60
2:B:911:GLU:O	2:B:915:ARG:N	2.34	0.60
2:E:565:GLY:N	2:E:624:THR:O	2.34	0.60
2:E:937:ASN:HA	2:E:940:VAL:HG12	1.84	0.60
2:B:1357:ARG:HH21	2:B:1453:TYR:C	2.05	0.60
2:E:90:GLU:O	2:E:94:THR:OG1	2.13	0.60
2:E:509:TRP:HB3	2:E:511:GLU:HG3	1.82	0.60
2:E:964:MET:O	2:E:1019:ARG:NH2	2.34	0.60
2:E:1059:LEU:HA	2:E:1062:GLU:HG2	1.84	0.60
2:E:1067:ALA:O	2:E:1071:LYS:N	2.23	0.60
2:E:1206:ASP:O	2:E:1209:THR:HG22	2.02	0.60
2:E:1368:TYR:O	2:E:1425:TYR:N	2.31	0.60
3:F:42:ALA:HB3	3:F:53:LEU:HD11	1.83	0.60
2:B:470:MET:HG3	2:B:484:ILE:HD13	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1367:TYR:HE1	2:B:1398:LEU:HD23	1.67	0.60
2:B:1408:MET:N	2:B:1426:MET:O	2.33	0.60
1:D:562:PHE:N	1:D:575:TRP:O	2.35	0.60
1:D:580:SER:HB3	1:D:584:LYS:H	1.67	0.60
2:E:99:ALA:HA	2:E:102:TRP:NE1	2.17	0.60
2:E:911:GLU:O	2:E:915:ARG:N	2.34	0.60
1:A:580:SER:HA	1:A:587:HIS:CE1	2.30	0.59
3:C:146:ALA:O	3:C:150:GLY:N	2.30	0.59
1:D:643:SER:HB3	1:D:651:GLN:HB3	1.84	0.59
2:E:430:LYS:NZ	2:E:433:PHE:O	2.28	0.59
2:B:843:PHE:O	2:B:846:SER:OG	2.19	0.59
2:B:1313:MET:HA	2:B:1453:TYR:OH	2.02	0.59
2:B:1321:SER:O	2:B:1345:ARG:NH2	2.35	0.59
3:C:82:PHE:O	3:C:115:THR:N	2.24	0.59
1:D:601:HIS:CE1	1:D:603:SER:HA	2.38	0.59
2:E:36:HIS:O	2:E:48:TYR:N	2.35	0.59
2:E:85:LEU:O	2:E:88:VAL:HG22	2.02	0.59
2:E:166:ARG:NH1	2:E:168:ASP:H	2.00	0.59
2:E:166:ARG:HH21	2:E:169:ASN:HD21	1.49	0.59
2:E:1357:ARG:HH21	2:E:1453:TYR:C	2.05	0.59
3:F:11:ASP:OD1	3:F:16:LYS:NZ	2.35	0.59
1:A:562:PHE:N	1:A:575:TRP:O	2.35	0.59
1:A:580:SER:HB2	1:A:585:VAL:HG22	1.83	0.59
1:A:601:HIS:CE1	1:A:603:SER:HA	2.38	0.59
2:B:1067:ALA:O	2:B:1071:LYS:N	2.23	0.59
2:E:757:LEU:HA	2:E:760:LEU:HG	1.84	0.59
2:E:882:LEU:O	2:E:885:GLN:HG2	2.02	0.59
2:B:1183:HIS:CG	2:B:1184:LYS:H	2.21	0.59
2:E:1006:TRP:HE3	2:E:1009:MET:HG3	1.67	0.59
2:E:1321:SER:O	2:E:1345:ARG:NH2	2.35	0.59
2:E:1367:TYR:HE1	2:E:1398:LEU:HD23	1.67	0.59
2:E:1462:PHE:O	2:E:1489:TYR:N	2.33	0.59
2:E:1480:ALA:HA	2:E:1514:PRO:HB3	1.83	0.59
1:A:617:VAL:HG21	1:A:623:PRO:HD3	1.84	0.59
2:B:467:GLU:OE2	2:B:534:ARG:NH1	2.35	0.59
2:B:1125:ILE:HG12	2:B:1172:LEU:HA	1.83	0.59
2:B:1466:ARG:NH1	3:C:31:GLU:OE2	2.35	0.59
2:E:256:GLU:HG3	2:E:488:ALA:HB2	1.83	0.59
2:E:392:VAL:O	2:E:394:HIS:ND1	2.35	0.59
2:E:569:LEU:HD12	2:E:620:PHE:HD2	1.68	0.59
2:E:879:LEU:HG	2:E:931:ARG:NH2	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:34:THR:HB	2:B:50:LEU:HD12	1.83	0.59
2:B:99:ALA:HA	2:B:102:TRP:NE1	2.17	0.59
2:B:879:LEU:HG	2:B:931:ARG:NH2	2.18	0.59
2:B:937:ASN:HA	2:B:940:VAL:HG12	1.84	0.59
2:B:1381:PHE:HB2	2:B:1383:TYR:HE1	1.66	0.59
1:D:580:SER:HB2	1:D:585:VAL:HG22	1.83	0.59
1:D:617:VAL:HG21	1:D:623:PRO:HD3	1.84	0.59
2:E:37:ILE:HD13	2:E:45:TYR:HB3	1.85	0.59
2:E:197:LYS:HA	2:E:200:GLU:HG2	1.84	0.59
2:E:470:MET:HG3	2:E:484:ILE:HD13	1.84	0.59
2:E:789:ASN:O	2:E:792:ARG:N	2.36	0.59
2:E:1183:HIS:CG	2:E:1184:LYS:H	2.21	0.59
2:E:1381:PHE:HB2	2:E:1383:TYR:HE1	1.66	0.59
1:A:693:GLU:HA	1:A:696:LEU:HG	1.85	0.59
2:B:100:VAL:HA	2:B:103:ARG:HG2	1.83	0.59
2:B:789:ASN:O	2:B:792:ARG:N	2.36	0.59
2:E:802:MET:SD	2:E:846:SER:OG	2.58	0.59
2:E:970:SER:O	2:E:974:SER:OG	2.15	0.59
2:E:979:ARG:HD3	2:E:1039:GLU:OE2	2.01	0.59
2:E:1313:MET:HA	2:E:1453:TYR:OH	2.02	0.59
2:E:1390:ARG:NH1	3:F:26:ASN:OD1	2.36	0.59
1:A:711:PRO:CG	2:B:16:ILE:HG21	2.28	0.59
2:B:166:ARG:HH21	2:B:169:ASN:HD21	1.49	0.59
2:B:392:VAL:O	2:B:394:HIS:ND1	2.35	0.59
2:B:945:ARG:NH1	2:B:946:GLN:HB2	2.18	0.59
2:B:1238:ASP:OD1	2:B:1239:ILE:N	2.31	0.59
2:E:1438:PRO:HB2	2:E:1441:TYR:HB2	1.85	0.59
2:B:1256:ASN:HB3	2:B:1259:GLU:HB2	1.85	0.59
2:B:1468:PHE:CE2	2:B:1470:LYS:HB2	2.38	0.59
3:C:7:VAL:HG21	3:C:71:SER:HB3	1.83	0.59
2:E:1115:THR:HB	2:E:1120:LEU:HD11	1.85	0.59
2:E:1275:ASP:O	2:E:1292:THR:OG1	2.21	0.59
2:E:1362:TYR:O	2:E:1431:VAL:N	2.32	0.59
2:E:1468:PHE:CE2	2:E:1470:LYS:HB2	2.38	0.59
1:A:576:TYR:O	1:A:588:TYR:HA	2.03	0.59
2:B:187:HIS:CD2	2:B:1009:MET:HG2	2.38	0.59
2:B:1270:LEU:O	2:B:1272:GLN:NE2	2.36	0.59
2:B:1467:PRO:HG2	3:C:31:GLU:O	2.03	0.59
2:E:181:ILE:HA	2:E:184:PHE:HB3	1.85	0.59
2:E:1217:LYS:HA	2:E:1220:ARG:CZ	2.33	0.59
2:B:958:ILE:HD12	2:B:1016:VAL:HG21	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1459:VAL:HG23	2:B:1495:PHE:HB2	1.84	0.58
3:C:80:ILE:HD11	3:C:97:TRP:HB3	1.84	0.58
2:E:921:THR:HG23	2:E:925:ILE:HG13	1.84	0.58
2:E:958:ILE:HD12	2:E:1016:VAL:HG21	1.85	0.58
2:E:1259:GLU:OE1	2:E:1259:GLU:N	2.35	0.58
2:B:36:HIS:O	2:B:48:TYR:N	2.35	0.58
2:B:757:LEU:HA	2:B:760:LEU:HG	1.84	0.58
2:B:1115:THR:HB	2:B:1120:LEU:HD11	1.85	0.58
2:B:1479:PHE:HB3	2:B:1482:MET:HE2	1.84	0.58
2:B:181:ILE:HA	2:B:184:PHE:HB3	1.85	0.58
2:B:554:LEU:O	2:B:562:LEU:N	2.36	0.58
2:B:921:THR:HG23	2:B:925:ILE:HG13	1.84	0.58
2:B:1102:ILE:HD13	2:B:1135:GLU:HG3	1.85	0.58
2:B:1397:ARG:O	2:B:1401:GLN:N	2.35	0.58
2:B:1515:LEU:HG	2:B:1575:TYR:CE2	2.39	0.58
2:E:1262:TYR:O	2:E:1266:LEU:HG	2.03	0.58
2:E:1515:LEU:HG	2:E:1575:TYR:CE2	2.39	0.58
2:B:569:LEU:HD12	2:B:620:PHE:HD2	1.68	0.58
2:B:1059:LEU:HA	2:B:1062:GLU:HG2	1.84	0.58
2:B:1197:VAL:O	2:B:1200:LEU:HB3	2.03	0.58
2:B:1462:PHE:O	2:B:1489:TYR:N	2.33	0.58
2:E:180:THR:O	2:E:184:PHE:N	2.33	0.58
2:E:1265:LEU:O	2:E:1269:GLU:N	2.30	0.58
2:B:166:ARG:NH1	2:B:168:ASP:H	2.00	0.58
2:B:1438:PRO:HB2	2:B:1441:TYR:HB2	1.85	0.58
2:B:1539:ASP:OD1	2:B:1540:ARG:N	2.36	0.58
3:C:43:ASN:ND2	3:C:52:ASN:OD1	2.36	0.58
2:E:1357:ARG:NH2	2:E:1456:ALA:H	1.99	0.58
2:B:792:ARG:O	2:B:795:PHE:HB2	2.03	0.58
2:B:817:LEU:HB3	2:B:859:CYS:HB2	1.86	0.58
2:E:1379:LYS:HZ2	2:E:1503:GLU:HB2	1.69	0.58
3:F:80:ILE:HD11	3:F:97:TRP:HB3	1.84	0.58
3:F:82:PHE:O	3:F:115:THR:N	2.24	0.58
2:B:1111:GLU:OE2	2:B:1163:ARG:NH2	2.32	0.58
2:B:1262:TYR:O	2:B:1266:LEU:HG	2.03	0.58
2:B:1526:ASN:O	2:B:1599:LEU:HD21	2.04	0.58
2:E:1470:LYS:HB3	2:E:1483:TRP:CD1	2.39	0.58
2:E:1485:GLU:OE1	2:E:1485:GLU:N	2.36	0.58
3:F:43:ASN:ND2	3:F:52:ASN:OD1	2.36	0.58
2:B:1259:GLU:HA	2:B:1262:TYR:HD2	1.68	0.58
2:B:1485:GLU:OE1	2:B:1485:GLU:N	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:522:VAL:HG23	2:E:554:LEU:HD13	1.85	0.58
2:E:1197:VAL:O	2:E:1200:LEU:HB3	2.03	0.58
2:B:1217:LYS:HA	2:B:1220:ARG:CZ	2.33	0.58
2:B:1470:LYS:HB3	2:B:1483:TRP:CD1	2.39	0.58
2:E:81:ILE:HG21	2:E:141:LEU:HD21	1.85	0.58
2:E:189:VAL:HG13	2:E:193:ARG:NH1	2.19	0.58
2:E:450:LEU:HB3	2:E:620:PHE:HZ	1.69	0.58
2:E:945:ARG:NH1	2:E:946:GLN:HB2	2.18	0.58
2:E:1256:ASN:HB3	2:E:1259:GLU:HB2	1.85	0.58
2:E:1518:ALA:HA	2:E:1566:TYR:OH	2.04	0.58
2:E:1557:PRO:HA	3:F:36:VAL:CG1	2.33	0.58
2:B:189:VAL:HG13	2:B:193:ARG:NH1	2.19	0.58
2:B:450:LEU:HB3	2:B:620:PHE:HZ	1.69	0.58
1:D:711:PRO:HB2	2:E:63:TYR:CE1	2.39	0.58
2:E:187:HIS:CD2	2:E:1009:MET:HG2	2.38	0.58
2:E:1397:ARG:O	2:E:1401:GLN:N	2.35	0.58
2:B:1259:GLU:HA	2:B:1262:TYR:CD2	2.39	0.57
1:D:693:GLU:HA	1:D:696:LEU:HG	1.85	0.57
2:E:5:ILE:H	2:E:40:MET:N	1.95	0.57
3:F:90:PHE:CD1	3:F:137:ILE:HG12	2.40	0.57
2:B:1367:TYR:CE2	2:B:1402:PHE:HE2	2.21	0.57
1:D:576:TYR:O	1:D:588:TYR:HA	2.03	0.57
2:E:554:LEU:O	2:E:562:LEU:N	2.36	0.57
2:E:677:PHE:O	2:E:681:MET:HG2	2.04	0.57
2:E:874:CYS:HA	2:E:877:VAL:HG12	1.87	0.57
2:E:1539:ASP:OD1	2:E:1540:ARG:N	2.36	0.57
2:B:81:ILE:HG21	2:B:141:LEU:HD21	1.85	0.57
2:B:556:ASN:ND2	2:B:561:THR:O	2.37	0.57
2:B:643:TRP:CE2	2:B:679:ILE:HG13	2.40	0.57
2:B:1518:ALA:HA	2:B:1566:TYR:OH	2.04	0.57
2:E:1479:PHE:HB3	2:E:1482:MET:HE2	1.86	0.57
1:A:594:SER:HB2	1:A:596:GLN:HE21	1.69	0.57
2:B:197:LYS:HA	2:B:200:GLU:HG2	1.84	0.57
2:B:303:VAL:HG22	2:B:319:ARG:HG2	1.86	0.57
2:B:1275:ASP:O	2:B:1292:THR:OG1	2.21	0.57
2:E:520:GLU:O	2:E:523:THR:OG1	2.15	0.57
2:E:643:TRP:CE2	2:E:679:ILE:HG13	2.40	0.57
2:E:1359:GLN:HB3	2:E:1456:ALA:HB2	1.87	0.57
1:A:643:SER:HB3	1:A:651:GLN:HB3	1.85	0.57
2:B:1256:ASN:HD21	2:B:1500:LYS:HE2	1.70	0.57
2:E:719:TYR:HA	2:E:723:HIS:CD2	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:37:ILE:HD13	2:B:45:TYR:HB3	1.85	0.57
2:B:677:PHE:O	2:B:681:MET:HG2	2.05	0.57
2:B:765:ARG:NE	2:B:826:ASP:OD1	2.36	0.57
2:B:910:LEU:HB3	2:B:963:GLN:HE22	1.70	0.57
2:B:1099:ILE:HG13	2:B:1134:CYS:HB3	1.87	0.57
2:B:1515:LEU:HD13	2:B:1585:LYS:HB2	1.87	0.57
2:E:166:ARG:NH2	2:E:168:ASP:HB2	2.20	0.57
2:E:792:ARG:O	2:E:795:PHE:HB2	2.03	0.57
2:E:1099:ILE:HG13	2:E:1134:CYS:HB3	1.86	0.57
2:E:1165:ASP:HB2	2:E:1167:GLN:HE22	1.69	0.57
2:E:1242:ARG:HG2	2:E:1246:LYS:NZ	2.20	0.57
3:C:161:THR:O	3:C:163:ARG:NH1	2.37	0.57
1:D:693:GLU:O	1:D:697:ARG:HG2	2.05	0.57
2:E:556:ASN:ND2	2:E:561:THR:O	2.37	0.57
2:E:1205:LEU:HA	2:E:1208:ARG:HH21	1.70	0.57
2:E:1367:TYR:CE2	2:E:1402:PHE:HE2	2.21	0.57
3:F:8:VAL:O	3:F:58:THR:OG1	2.23	0.57
1:A:568:ARG:NH2	1:A:634:ASN:OD1	2.38	0.57
2:B:179:SER:OG	2:B:182:ALA:HB3	2.05	0.57
2:B:772:VAL:HA	2:B:775:LEU:HD12	1.86	0.57
2:B:838:VAL:HG12	2:B:877:VAL:HG21	1.87	0.57
2:B:1098:LYS:O	2:B:1102:ILE:HG13	2.05	0.57
2:B:1109:ILE:HA	2:B:1112:VAL:HG22	1.86	0.57
2:B:1242:ARG:HG2	2:B:1246:LYS:NZ	2.20	0.57
2:B:1284:GLN:NE2	2:B:1287:SER:O	2.37	0.57
3:C:7:VAL:HG23	3:C:75:THR:HG21	1.86	0.57
3:C:90:PHE:CD1	3:C:137:ILE:HG12	2.39	0.57
2:E:727:THR:HA	2:E:773:LEU:HD22	1.87	0.57
2:E:1102:ILE:HD13	2:E:1135:GLU:HG3	1.85	0.57
2:B:522:VAL:HG23	2:B:554:LEU:HD13	1.85	0.57
2:B:719:TYR:HA	2:B:723:HIS:CD2	2.40	0.57
2:B:828:LYS:HZ3	2:B:867:THR:HA	1.69	0.57
2:B:1259:GLU:OE1	2:B:1259:GLU:N	2.35	0.57
2:E:772:VAL:HA	2:E:775:LEU:HD12	1.87	0.57
2:E:1259:GLU:HA	2:E:1262:TYR:HD2	1.68	0.57
2:E:1259:GLU:HA	2:E:1262:TYR:CD2	2.39	0.57
2:E:1335:TYR:HA	2:E:1338:LEU:HD23	1.86	0.57
3:F:161:THR:O	3:F:163:ARG:NH1	2.37	0.57
2:B:1379:LYS:HZ2	2:B:1503:GLU:HB2	1.70	0.57
2:E:1526:ASN:O	2:E:1599:LEU:HD21	2.04	0.57
3:F:7:VAL:HG23	3:F:75:THR:HG21	1.86	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:8:VAL:HG22	3:F:79:LEU:HD12	1.87	0.57
1:A:541:GLN:O	1:A:544:ILE:HG22	2.04	0.56
2:B:874:CYS:HA	2:B:877:VAL:HG12	1.86	0.56
3:C:8:VAL:O	3:C:58:THR:OG1	2.23	0.56
1:D:568:ARG:NH2	1:D:634:ASN:OD1	2.38	0.56
2:E:1109:ILE:HA	2:E:1112:VAL:HG22	1.86	0.56
2:E:1284:GLN:NE2	2:E:1287:SER:O	2.37	0.56
2:B:727:THR:HA	2:B:773:LEU:HD22	1.87	0.56
2:B:1362:TYR:O	2:B:1431:VAL:N	2.32	0.56
2:B:1388:TYR:CE2	3:C:50:PRO:HG3	2.40	0.56
2:E:73:ASP:O	2:E:79:THR:N	2.38	0.56
2:E:760:LEU:HD12	2:E:819:TYR:HB2	1.87	0.56
2:E:817:LEU:HB3	2:E:859:CYS:HB2	1.86	0.56
2:E:1034:ASP:OD1	2:E:1097:HIS:NE2	2.38	0.56
2:E:1452:ASN:OD1	2:E:1453:TYR:N	2.38	0.56
2:B:73:ASP:O	2:B:79:THR:N	2.38	0.56
2:B:143:GLU:O	2:B:147:LYS:HG2	2.05	0.56
2:B:772:VAL:HG13	2:B:776:ARG:HH12	1.71	0.56
2:B:1207:TYR:O	2:B:1211:ILE:HG12	2.05	0.56
2:B:1235:LYS:O	2:B:1237:GLU:N	2.39	0.56
2:B:1359:GLN:HB3	2:B:1456:ALA:HB2	1.87	0.56
2:B:1452:ASN:OD1	2:B:1453:TYR:N	2.38	0.56
2:E:59:PHE:HD2	2:E:64:ILE:HG12	1.70	0.56
2:E:903:SER:HB3	2:E:953:PHE:CE2	2.40	0.56
2:E:914:ASP:CG	2:E:963:GLN:HG2	2.26	0.56
2:E:1207:TYR:O	2:E:1211:ILE:HG12	2.06	0.56
2:E:1240:TYR:O	2:E:1244:LEU:HG	2.05	0.56
2:E:1391:ARG:HG3	2:E:1429:PHE:HA	1.87	0.56
2:B:1034:ASP:OD1	2:B:1097:HIS:NE2	2.38	0.56
2:B:1088:ARG:HG3	2:B:1127:ILE:HD11	1.87	0.56
2:B:1325:ALA:HB2	2:B:1341:LEU:HD23	1.87	0.56
2:B:1448:GLU:OE1	2:B:1452:ASN:ND2	2.38	0.56
3:C:8:VAL:HG22	3:C:79:LEU:HD12	1.87	0.56
2:E:772:VAL:HG13	2:E:776:ARG:HH12	1.71	0.56
2:E:1408:MET:N	2:E:1426:MET:O	2.33	0.56
2:E:1525:THR:HA	2:E:1528:ARG:NH2	2.21	0.56
2:B:19:TYR:CG	2:B:59:PHE:HE1	2.24	0.56
2:B:208:LEU:HA	2:B:211:ARG:HD3	1.86	0.56
2:B:1167:GLN:O	2:B:1171:LEU:HG	2.05	0.56
1:D:541:GLN:O	1:D:544:ILE:HG22	2.04	0.56
1:D:586:LEU:HB2	1:D:608:LEU:HB3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:594:SER:HB2	1:D:596:GLN:HE21	1.69	0.56
2:E:196:GLU:O	2:E:200:GLU:HB3	2.05	0.56
2:E:1072:ILE:O	2:E:1076:TYR:N	2.37	0.56
2:E:1098:LYS:O	2:E:1102:ILE:HG13	2.05	0.56
2:E:1325:ALA:HB2	2:E:1341:LEU:HD23	1.87	0.56
1:A:714:PRO:HG3	2:B:60:PRO:HB3	1.88	0.56
2:B:1165:ASP:HB2	2:B:1167:GLN:HE22	1.69	0.56
1:D:708:ASP:OD1	1:D:708:ASP:N	2.39	0.56
2:E:303:VAL:HG22	2:E:319:ARG:HG2	1.86	0.56
2:E:838:VAL:HG12	2:E:877:VAL:HG21	1.87	0.56
2:E:1178:GLU:HA	2:E:1181:ARG:HD3	1.88	0.56
2:E:1270:LEU:O	2:E:1272:GLN:NE2	2.36	0.56
1:A:580:SER:HB2	1:A:585:VAL:H	1.71	0.56
1:A:596:GLN:NE2	1:A:597:GLY:O	2.39	0.56
2:B:1178:GLU:HA	2:B:1181:ARG:HD3	1.88	0.56
2:B:1240:TYR:O	2:B:1244:LEU:HG	2.05	0.56
1:D:711:PRO:HB2	2:E:63:TYR:HE1	1.70	0.56
2:E:143:GLU:O	2:E:147:LYS:HG2	2.05	0.56
2:E:910:LEU:HB3	2:E:963:GLN:HE22	1.70	0.56
3:F:27:ALA:O	3:F:162:GLN:NE2	2.38	0.56
1:A:677:MET:CB	1:A:682:THR:HG21	2.36	0.56
2:B:899:HIS:CD2	2:B:943:MET:HG2	2.41	0.56
2:B:1205:LEU:HA	2:B:1208:ARG:HH21	1.70	0.56
2:B:1357:ARG:NH2	2:B:1456:ALA:H	1.99	0.56
3:C:27:ALA:O	3:C:162:GLN:NE2	2.38	0.56
1:D:677:MET:CB	1:D:682:THR:HG21	2.36	0.56
2:E:484:ILE:O	2:E:493:ILE:N	2.39	0.56
2:E:1167:GLN:O	2:E:1171:LEU:HG	2.05	0.56
2:E:1371:GLY:C	2:E:1424:GLN:HE21	2.09	0.56
2:E:1484:ILE:H	2:E:1512:ILE:HB	1.71	0.56
2:E:1515:LEU:HD13	2:E:1585:LYS:HB2	1.87	0.56
2:B:166:ARG:NH2	2:B:168:ASP:HB2	2.20	0.56
2:B:261:ARG:HD3	2:B:269:LYS:HD3	1.88	0.56
2:B:1371:GLY:C	2:B:1424:GLN:HE21	2.09	0.56
1:D:711:PRO:HG2	2:E:16:ILE:HD13	1.88	0.56
2:E:208:LEU:HA	2:E:211:ARG:HD3	1.86	0.56
2:E:473:HIS:HB2	2:E:526:HIS:CE1	2.41	0.56
2:E:979:ARG:NH2	2:E:1031:PHE:O	2.39	0.56
2:B:484:ILE:O	2:B:493:ILE:N	2.39	0.56
2:B:903:SER:HB3	2:B:953:PHE:CE2	2.40	0.56
2:B:914:ASP:CG	2:B:963:GLN:HG2	2.26	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1041:GLN:NE2	2:B:1044:ASN:OD1	2.39	0.56
2:B:1072:ILE:O	2:B:1076:TYR:N	2.37	0.56
2:E:1041:GLN:NE2	2:E:1044:ASN:OD1	2.39	0.56
2:E:1256:ASN:HD21	2:E:1500:LYS:HE2	1.70	0.56
1:A:562:PHE:CE1	1:A:577:CYS:HB3	2.41	0.55
1:A:693:GLU:O	1:A:697:ARG:HG2	2.05	0.55
2:B:933:LEU:H	2:B:935:ARG:HH21	1.53	0.55
2:B:979:ARG:NH2	2:B:1031:PHE:O	2.39	0.55
2:B:1441:TYR:CD2	2:B:1450:ILE:HG21	2.41	0.55
2:B:1484:ILE:H	2:B:1512:ILE:HB	1.71	0.55
2:B:1525:THR:HA	2:B:1528:ARG:NH2	2.21	0.55
3:C:137:ILE:HG23	3:C:141:GLN:HB2	1.88	0.55
2:E:761:LYS:O	2:E:765:ARG:HG2	2.06	0.55
2:E:1615:LEU:O	2:E:1619:HIS:N	2.29	0.55
2:B:273:LYS:HD3	2:B:277:LEU:HD23	1.88	0.55
2:B:760:LEU:HD12	2:B:819:TYR:HB2	1.87	0.55
2:B:828:LYS:NZ	2:B:867:THR:HA	2.21	0.55
2:B:855:GLN:OE1	2:B:855:GLN:N	2.39	0.55
2:B:1045:ASN:O	2:B:1049:LEU:HB3	2.06	0.55
2:B:1335:TYR:HA	2:B:1338:LEU:HD23	1.86	0.55
2:B:1391:ARG:HG3	2:B:1429:PHE:HA	1.87	0.55
1:D:596:GLN:NE2	1:D:597:GLY:O	2.39	0.55
2:E:828:LYS:NZ	2:E:867:THR:HA	2.21	0.55
2:E:1029:THR:HA	2:E:1033:MET:HB2	1.87	0.55
2:E:1235:LYS:O	2:E:1237:GLU:N	2.39	0.55
2:E:1441:TYR:CD2	2:E:1450:ILE:HG21	2.41	0.55
2:B:59:PHE:HD2	2:B:64:ILE:HG12	1.70	0.55
2:B:196:GLU:O	2:B:200:GLU:HB3	2.05	0.55
2:B:825:ASN:ND2	2:B:866:SER:HB2	2.22	0.55
2:B:896:LYS:CG	2:B:897:PRO:HD3	2.35	0.55
2:B:1198:SER:HA	2:B:1201:LEU:HD12	1.89	0.55
2:B:1340:ASN:OD1	2:B:1341:LEU:N	2.40	0.55
1:D:578:ARG:HB2	1:D:598:GLU:OE1	2.07	0.55
1:D:580:SER:HB2	1:D:585:VAL:H	1.71	0.55
2:E:435:GLU:HA	2:E:708:LYS:NZ	2.21	0.55
2:E:1467:PRO:HG2	3:F:31:GLU:O	2.07	0.55
2:B:761:LYS:O	2:B:765:ARG:HG2	2.06	0.55
2:B:1242:ARG:HG2	2:B:1246:LYS:HZ1	1.72	0.55
3:C:126:ILE:HD12	3:C:136:PRO:HB3	1.88	0.55
2:E:273:LYS:HD3	2:E:277:LEU:HD23	1.88	0.55
2:E:1340:ASN:OD1	2:E:1341:LEU:N	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1571:PHE:CE2	2:E:1590:LYS:HG3	2.42	0.55
3:F:137:ILE:HG23	3:F:141:GLN:HB2	1.88	0.55
2:B:156:ASN:O	2:B:160:GLY:N	2.40	0.55
2:E:19:TYR:CG	2:E:59:PHE:HE1	2.24	0.55
2:B:17:TYR:OH	2:B:20:ASN:OD1	2.23	0.55
2:B:473:HIS:HB2	2:B:526:HIS:CE1	2.41	0.55
1:D:557:VAL:HA	1:D:579:LEU:HB3	1.89	0.55
2:E:17:TYR:OH	2:E:20:ASN:OD1	2.23	0.55
2:E:156:ASN:O	2:E:160:GLY:N	2.40	0.55
2:E:1045:ASN:O	2:E:1049:LEU:HB3	2.06	0.55
2:E:1159:VAL:O	2:E:1208:ARG:NH1	2.40	0.55
2:E:1328:TYR:HB3	2:E:1338:LEU:CD2	2.37	0.55
2:E:1460:GLN:O	2:E:1491:THR:N	2.39	0.55
3:F:126:ILE:HD12	3:F:136:PRO:HB3	1.88	0.55
1:A:669:LEU:HA	1:A:672:LEU:HD12	1.89	0.55
2:B:746:ASP:O	2:B:750:THR:OG1	2.10	0.55
2:B:856:LYS:HD2	2:B:857:LEU:HD23	1.89	0.55
2:B:965:ASP:OD1	2:B:966:ASP:N	2.40	0.55
2:B:1601:THR:HG22	2:B:1605:ARG:NE	2.21	0.55
2:E:179:SER:OG	2:E:182:ALA:HB3	2.05	0.55
2:E:1028:LEU:HD23	2:E:1032:PHE:CD1	2.42	0.55
2:E:1328:TYR:HA	2:E:1332:VAL:HG12	1.89	0.55
2:E:1601:THR:HG22	2:E:1605:ARG:NE	2.21	0.55
1:A:557:VAL:HA	1:A:579:LEU:HB3	1.89	0.55
2:B:435:GLU:HA	2:B:708:LYS:NZ	2.21	0.55
2:B:1029:THR:HA	2:B:1033:MET:HB2	1.87	0.55
2:B:1109:ILE:HG23	2:B:1128:PHE:HE1	1.72	0.55
2:B:1345:ARG:HA	2:B:1348:PHE:CD2	2.42	0.55
2:E:48:TYR:HB3	2:E:53:LYS:HD2	1.88	0.55
2:E:1012:THR:HA	2:E:1015:ARG:NH1	2.21	0.55
2:E:1043:TRP:CD1	2:E:1094:LEU:HD21	2.42	0.55
2:E:1448:GLU:OE1	2:E:1452:ASN:ND2	2.38	0.55
2:B:76:GLN:NE2	2:B:78:GLU:OE1	2.36	0.55
2:B:958:ILE:HB	2:B:1016:VAL:HG21	1.89	0.55
2:B:1506:GLN:NE2	2:B:1507:ILE:O	2.40	0.55
1:D:562:PHE:CE1	1:D:577:CYS:HB3	2.41	0.55
2:E:45:TYR:O	2:E:59:PHE:N	2.31	0.55
2:E:714:PRO:HA	2:E:717:GLU:HG2	1.89	0.55
2:E:1483:TRP:CZ2	2:E:1514:PRO:HD3	2.42	0.55
2:B:19:TYR:O	2:B:28:SER:HA	2.07	0.55
2:B:1251:HIS:O	2:B:1255:GLU:N	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1458:GLU:N	2:B:1495:PHE:O	2.40	0.55
2:B:1615:LEU:HA	2:B:1618:LEU:HB2	1.89	0.55
2:E:1088:ARG:HG3	2:E:1127:ILE:HD11	1.88	0.55
2:E:1458:GLU:N	2:E:1495:PHE:O	2.40	0.55
3:F:83:SER:HB3	3:F:86:SER:HB3	1.89	0.55
2:B:562:LEU:O	2:B:633:GLN:NE2	2.40	0.54
2:B:1159:VAL:O	2:B:1208:ARG:NH1	2.40	0.54
2:E:283:ASP:HB2	2:E:430:LYS:HB3	1.89	0.54
2:E:1251:HIS:O	2:E:1255:GLU:N	2.39	0.54
2:E:1506:GLN:NE2	2:E:1507:ILE:O	2.40	0.54
2:B:48:TYR:HB3	2:B:53:LYS:HD2	1.88	0.54
2:B:958:ILE:HA	2:B:961:LEU:HD12	1.89	0.54
2:B:1328:TYR:HA	2:B:1332:VAL:HG12	1.89	0.54
2:B:1571:PHE:CE2	2:B:1590:LYS:HG3	2.42	0.54
3:C:83:SER:HB3	3:C:86:SER:HB3	1.89	0.54
3:C:85:VAL:HG11	3:C:119:LEU:HB2	1.89	0.54
2:E:832:ASP:OD2	2:E:835:GLU:N	2.24	0.54
2:E:1216:SER:O	2:E:1220:ARG:NH1	2.41	0.54
1:A:586:LEU:HB2	1:A:608:LEU:HB3	1.88	0.54
2:B:105:LEU:HD13	2:B:110:LYS:NZ	2.22	0.54
2:B:832:ASP:OD2	2:B:835:GLU:N	2.24	0.54
2:B:880:PRO:HA	2:B:931:ARG:HH12	1.73	0.54
1:D:669:LEU:HA	1:D:672:LEU:HD12	1.89	0.54
2:E:958:ILE:HA	2:E:961:LEU:HD12	1.89	0.54
3:F:68:ARG:HG3	3:F:72:TYR:CE1	2.43	0.54
2:B:1535:GLN:HE22	2:B:1542:LEU:HD21	1.71	0.54
2:E:76:GLN:NE2	2:E:78:GLU:OE1	2.36	0.54
2:E:261:ARG:HD3	2:E:269:LYS:HD3	1.88	0.54
2:E:795:PHE:CD1	2:E:839:LEU:HB3	2.43	0.54
2:E:825:ASN:ND2	2:E:866:SER:HB2	2.22	0.54
2:E:899:HIS:CD2	2:E:943:MET:HG2	2.41	0.54
2:E:958:ILE:HB	2:E:1016:VAL:HG21	1.89	0.54
2:E:1418:ILE:HA	2:E:1421:SER:HB3	1.89	0.54
2:E:1545:HIS:O	2:E:1548:SER:OG	2.21	0.54
2:E:1615:LEU:HA	2:E:1618:LEU:HB2	1.89	0.54
1:A:708:ASP:N	1:A:708:ASP:OD1	2.39	0.54
2:B:97:GLU:OE2	2:B:1065:SER:HB2	2.08	0.54
2:B:1216:SER:O	2:B:1220:ARG:NH1	2.41	0.54
2:E:562:LEU:O	2:E:633:GLN:NE2	2.40	0.54
2:E:1109:ILE:HG23	2:E:1128:PHE:HE1	1.72	0.54
2:E:1111:GLU:OE2	2:E:1163:ARG:NH2	2.32	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1165:ASP:O	2:B:1168:TYR:HB3	2.08	0.54
2:B:1409:THR:HA	3:C:28:PHE:HZ	1.72	0.54
2:B:1557:PRO:HB2	2:B:1561:GLY:CA	2.36	0.54
2:E:11:LYS:HZ1	2:E:36:HIS:HB2	1.72	0.54
2:E:933:LEU:H	2:E:935:ARG:HH21	1.54	0.54
2:B:11:LYS:HZ1	2:B:36:HIS:HB2	1.73	0.54
2:B:732:LYS:O	2:B:736:VAL:HG23	2.08	0.54
2:B:1012:THR:HA	2:B:1015:ARG:NH1	2.21	0.54
2:B:1328:TYR:HB3	2:B:1338:LEU:CD2	2.37	0.54
2:E:473:HIS:ND1	2:E:477:GLY:O	2.41	0.54
2:E:896:LYS:CG	2:E:897:PRO:HD3	2.36	0.54
2:E:965:ASP:OD1	2:E:966:ASP:N	2.40	0.54
2:E:1217:LYS:HD3	2:E:1220:ARG:NH1	2.22	0.54
2:E:1535:GLN:HE22	2:E:1542:LEU:HD21	1.71	0.54
2:E:1593:ILE:HA	2:E:1596:GLN:HB3	1.90	0.54
1:A:578:ARG:HB2	1:A:598:GLU:OE1	2.07	0.54
2:E:93:SER:O	2:E:96:ARG:HB3	2.08	0.54
2:E:105:LEU:HD13	2:E:110:LYS:NZ	2.22	0.54
2:E:940:VAL:HG13	2:E:992:MET:CE	2.37	0.54
2:E:1623:SER:HA	2:E:1627:ARG:NH1	2.23	0.54
2:B:283:ASP:HB2	2:B:430:LYS:HB3	1.89	0.54
2:B:899:HIS:HB3	2:B:949:HIS:NE2	2.23	0.54
2:B:940:VAL:HG13	2:B:992:MET:CE	2.37	0.54
2:B:1028:LEU:HD23	2:B:1032:PHE:CD1	2.42	0.54
2:B:1065:SER:OG	2:B:1068:LYS:HB2	2.08	0.54
3:C:68:ARG:HG3	3:C:72:TYR:CE1	2.43	0.54
2:E:97:GLU:OE2	2:E:1065:SER:HB2	2.08	0.54
2:E:662:GLY:HA2	2:E:665:ILE:HB	1.90	0.54
2:E:855:GLN:OE1	2:E:855:GLN:N	2.39	0.54
2:E:1212:MET:HA	2:E:1215:GLU:OE2	2.08	0.54
2:E:1242:ARG:HG2	2:E:1246:LYS:HZ1	1.73	0.54
3:F:85:VAL:HG11	3:F:119:LEU:HB2	1.89	0.54
2:B:818:LYS:HZ3	2:B:858:ASN:HB3	1.73	0.54
2:B:1460:GLN:O	2:B:1491:THR:N	2.39	0.54
2:B:1483:TRP:CZ2	2:B:1514:PRO:HD3	2.42	0.54
2:E:19:TYR:HB3	2:E:29:LEU:H	1.73	0.54
2:E:1065:SER:OG	2:E:1068:LYS:HB2	2.08	0.54
2:E:1198:SER:HA	2:E:1201:LEU:HD12	1.88	0.54
2:E:1345:ARG:HA	2:E:1348:PHE:CD2	2.42	0.54
2:B:561:THR:HB	2:B:631:LEU:HD22	1.90	0.53
2:B:938:ARG:O	2:B:941:ILE:HB	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1043:TRP:CD1	2:B:1094:LEU:HD21	2.42	0.53
2:B:1449:GLN:HA	2:B:1452:ASN:ND2	2.24	0.53
2:E:19:TYR:O	2:E:28:SER:HA	2.07	0.53
2:E:23:GLN:HG2	2:E:58:ILE:HD13	1.89	0.53
2:E:649:ASN:OD1	2:E:652:HIS:HB3	2.08	0.53
2:E:732:LYS:O	2:E:736:VAL:HG23	2.08	0.53
2:B:4:TRP:CZ3	2:B:46:ARG:HG2	2.43	0.53
2:B:23:GLN:HG2	2:B:58:ILE:HD13	1.89	0.53
2:B:649:ASN:OD1	2:B:652:HIS:HB3	2.08	0.53
2:B:662:GLY:HA2	2:B:665:ILE:HB	1.90	0.53
2:B:714:PRO:HA	2:B:717:GLU:HG2	1.89	0.53
2:B:934:ARG:HB3	2:B:935:ARG:NH1	2.24	0.53
2:B:1418:ILE:HA	2:B:1421:SER:HB3	1.90	0.53
3:C:6:CYS:SG	3:C:79:LEU:HG	2.48	0.53
1:D:618:THR:HB	1:D:662:TYR:OH	2.08	0.53
1:D:670:ASN:O	1:D:674:GLY:N	2.41	0.53
2:E:856:LYS:HD2	2:E:857:LEU:HD23	1.89	0.53
2:E:992:MET:O	2:E:996:LEU:HD23	2.08	0.53
2:E:1363:PHE:O	2:E:1383:TYR:N	2.31	0.53
2:E:1579:HIS:O	2:E:1583:GLN:NE2	2.37	0.53
2:B:1091:TRP:CH2	2:B:1131:MET:HB3	2.44	0.53
2:B:1623:SER:HA	2:B:1627:ARG:NH1	2.23	0.53
2:E:4:TRP:CZ3	2:E:46:ARG:HG2	2.42	0.53
2:E:122:TYR:HA	2:E:125:ILE:HG12	1.91	0.53
2:E:899:HIS:HB3	2:E:949:HIS:NE2	2.23	0.53
2:B:1395:SER:O	2:B:1399:LEU:HG	2.09	0.53
2:B:1463:ARG:HH21	2:B:1484:ILE:HG21	1.73	0.53
2:B:1518:ALA:HB2	2:B:1570:PHE:CE2	2.44	0.53
1:D:704:ILE:HD11	2:E:65:HIS:CG	2.43	0.53
2:E:46:ARG:HA	2:E:57:GLY:O	2.09	0.53
2:E:820:LEU:O	2:E:823:ILE:HG12	2.09	0.53
2:E:1006:TRP:CD1	2:E:1006:TRP:N	2.77	0.53
3:F:41:SER:OG	3:F:53:LEU:O	2.15	0.53
3:F:142:GLY:HA3	3:F:154:TYR:CZ	2.44	0.53
2:B:473:HIS:ND1	2:B:477:GLY:O	2.41	0.53
2:B:795:PHE:CD1	2:B:839:LEU:HB3	2.43	0.53
2:B:824:ILE:O	2:B:828:LYS:HG2	2.09	0.53
2:B:831:PHE:HD2	2:B:836:LEU:HB2	1.74	0.53
2:B:886:LEU:HD13	2:B:932:LEU:HD23	1.90	0.53
2:B:1228:LEU:HD13	2:B:1244:LEU:HD23	1.90	0.53
2:E:938:ARG:O	2:E:941:ILE:HB	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1228:LEU:HD13	2:E:1244:LEU:HD23	1.90	0.53
2:E:1399:LEU:HD13	2:E:1405:ALA:HB1	1.90	0.53
2:E:1632:LYS:O	2:E:1636:HIS:N	2.41	0.53
3:F:69:PRO:HA	3:F:72:TYR:HD1	1.74	0.53
2:B:929:MET:HA	2:B:933:LEU:CD1	2.29	0.53
2:B:1212:MET:HA	2:B:1215:GLU:OE2	2.08	0.53
2:E:7:THR:O	2:E:10:GLN:NE2	2.42	0.53
2:E:281:PHE:HD1	2:E:428:ALA:HB3	1.74	0.53
2:E:886:LEU:HD13	2:E:932:LEU:HD23	1.90	0.53
2:E:1626:PHE:HD2	2:E:1627:ARG:HD2	1.74	0.53
3:F:6:CYS:SG	3:F:79:LEU:HG	2.48	0.53
1:A:670:ASN:O	1:A:674:GLY:N	2.41	0.53
2:B:296:LEU:HD23	2:B:346:ILE:HD11	1.90	0.53
2:B:820:LEU:O	2:B:823:ILE:HG12	2.09	0.53
2:B:1272:GLN:C	2:B:1297:LYS:HD2	2.29	0.53
3:C:69:PRO:HA	3:C:72:TYR:HD1	1.74	0.53
2:E:730:TYR:CD1	2:E:771:ARG:HD3	2.44	0.53
2:E:929:MET:HA	2:E:933:LEU:CD1	2.29	0.53
2:E:1348:PHE:O	2:E:1352:ILE:HG12	2.09	0.53
3:F:72:TYR:CE2	3:F:101:VAL:HG22	2.44	0.53
1:A:618:THR:HB	1:A:662:TYR:OH	2.08	0.53
2:B:19:TYR:HB3	2:B:29:LEU:H	1.73	0.53
2:B:46:ARG:HA	2:B:57:GLY:O	2.09	0.53
2:B:90:GLU:O	2:B:94:THR:OG1	2.13	0.53
2:B:320:ARG:NH1	2:B:375:GLU:OE1	2.42	0.53
2:B:992:MET:O	2:B:996:LEU:HD23	2.08	0.53
2:B:1391:ARG:NH2	2:B:1392:GLU:OE2	2.42	0.53
2:B:1399:LEU:HD13	2:B:1405:ALA:HB1	1.89	0.53
2:E:102:TRP:HA	2:E:105:LEU:HG	1.90	0.53
2:E:880:PRO:HA	2:E:931:ARG:HH12	1.73	0.53
2:E:940:VAL:HG13	2:E:992:MET:HE1	1.91	0.53
2:E:945:ARG:HH12	2:E:946:GLN:HB2	1.73	0.53
2:B:73:ASP:O	2:B:78:GLU:N	2.42	0.53
2:B:122:TYR:HA	2:B:125:ILE:HG12	1.90	0.53
2:B:1321:SER:OG	2:B:1345:ARG:NH2	2.42	0.53
2:B:1495:PHE:CE1	2:B:1502:PHE:HD2	2.26	0.53
3:C:66:ARG:NH1	3:C:67:LEU:HB2	2.24	0.53
2:E:881:LEU:O	2:E:884:ASP:HB2	2.09	0.53
2:E:997:ILE:HG21	2:E:1053:PHE:HB2	1.90	0.53
1:A:536:LEU:HA	1:A:539:LYS:HE3	1.91	0.53
2:B:93:SER:O	2:B:96:ARG:HB3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:243:MET:HG3	2:B:281:PHE:CZ	2.44	0.53
2:B:294:VAL:HG11	2:B:333:ILE:HD12	1.91	0.53
2:B:990:PHE:HB3	2:B:1045:ASN:CG	2.30	0.53
2:B:1006:TRP:N	2:B:1006:TRP:CD1	2.77	0.53
2:B:1203:ASN:O	2:B:1207:TYR:HB3	2.09	0.53
2:B:1407:LYS:HA	2:B:1426:MET:H	1.74	0.53
2:B:1545:HIS:O	2:B:1548:SER:OG	2.21	0.53
3:C:68:ARG:HG2	3:C:69:PRO:HD3	1.91	0.53
2:E:189:VAL:HA	2:E:192:LYS:HE2	1.91	0.53
2:E:222:TYR:CZ	2:E:289:LEU:HD11	2.44	0.53
2:E:561:THR:HB	2:E:631:LEU:HD22	1.90	0.53
2:E:765:ARG:NE	2:E:826:ASP:OD1	2.35	0.53
2:E:1091:TRP:CH2	2:E:1131:MET:HB3	2.44	0.53
2:E:1386:LYS:H	2:E:1389:GLU:HG3	1.74	0.53
2:E:1398:LEU:HA	2:E:1401:GLN:HB3	1.91	0.53
2:E:1518:ALA:HB2	2:E:1570:PHE:CE2	2.44	0.53
2:B:730:TYR:CZ	2:B:731:VAL:HG23	2.43	0.52
2:B:789:ASN:HA	2:B:792:ARG:HD2	1.91	0.52
2:B:881:LEU:O	2:B:884:ASP:HB2	2.09	0.52
2:B:1600:LEU:O	2:B:1604:ILE:HG12	2.09	0.52
2:E:14:VAL:HB	2:E:65:HIS:HB3	1.91	0.52
2:E:828:LYS:HZ3	2:E:867:THR:HA	1.75	0.52
2:E:1391:ARG:NH2	2:E:1392:GLU:OE2	2.42	0.52
2:E:1407:LYS:HA	2:E:1426:MET:H	1.74	0.52
1:A:576:TYR:HE1	1:A:591:LEU:HG	1.75	0.52
2:B:30:GLN:NE2	2:B:32:GLY:H	2.08	0.52
2:B:102:TRP:HA	2:B:105:LEU:HG	1.90	0.52
2:B:281:PHE:HD1	2:B:428:ALA:HB3	1.74	0.52
2:B:570:VAL:HG22	2:B:592:LYS:HZ2	1.74	0.52
2:B:570:VAL:HA	2:B:592:LYS:HZ2	1.73	0.52
2:B:945:ARG:HH12	2:B:946:GLN:HB2	1.74	0.52
2:B:997:ILE:HG21	2:B:1053:PHE:HB2	1.90	0.52
2:B:1027:VAL:HG22	2:B:1032:PHE:CE1	2.44	0.52
2:B:1207:TYR:HD2	2:B:1208:ARG:HG3	1.74	0.52
2:B:1348:PHE:O	2:B:1352:ILE:HG12	2.09	0.52
2:B:1404:ASN:HB2	2:B:1406:GLU:OE2	2.09	0.52
2:B:1626:PHE:CD2	2:B:1627:ARG:HD2	2.45	0.52
1:D:536:LEU:HD21	2:E:17:TYR:HA	1.91	0.52
2:E:46:ARG:HD2	2:E:58:ILE:HG13	1.91	0.52
2:E:99:ALA:HA	2:E:102:TRP:HE1	1.75	0.52
2:E:296:LEU:HD23	2:E:346:ILE:HD11	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:320:ARG:NH1	2:E:375:GLU:OE1	2.42	0.52
2:E:533:HIS:CE1	2:E:535:SER:HB3	2.44	0.52
2:E:730:TYR:CZ	2:E:731:VAL:HG23	2.43	0.52
2:E:1165:ASP:O	2:E:1168:TYR:HB3	2.08	0.52
2:E:1233:GLU:O	2:E:1235:LYS:NZ	2.22	0.52
2:E:1370:GLN:N	2:E:1421:SER:O	2.40	0.52
2:E:1395:SER:O	2:E:1399:LEU:HG	2.09	0.52
2:B:1363:PHE:O	2:B:1383:TYR:N	2.30	0.52
2:B:1386:LYS:H	2:B:1389:GLU:HG3	1.74	0.52
2:B:1626:PHE:HD2	2:B:1627:ARG:HD2	1.74	0.52
2:E:528:ARG:HA	2:E:551:PHE:HA	1.92	0.52
2:E:831:PHE:HD2	2:E:836:LEU:HB2	1.74	0.52
2:E:1027:VAL:HG22	2:E:1032:PHE:CE1	2.44	0.52
2:E:1203:ASN:O	2:E:1207:TYR:HB3	2.09	0.52
2:E:1463:ARG:HH21	2:E:1484:ILE:HG21	1.73	0.52
2:E:1521:THR:O	2:E:1524:LEU:HG	2.09	0.52
2:E:1522:MET:HG3	2:E:1566:TYR:HE2	1.75	0.52
3:F:68:ARG:HG2	3:F:69:PRO:HD3	1.91	0.52
1:A:544:ILE:O	1:A:547:LEU:HG	2.09	0.52
2:B:44:TRP:CE3	2:B:58:ILE:HG22	2.45	0.52
2:B:871:GLN:HG2	2:B:875:ARG:HD3	1.91	0.52
2:B:1398:LEU:HA	2:B:1401:GLN:HB3	1.92	0.52
3:C:72:TYR:CE2	3:C:101:VAL:HG22	2.44	0.52
1:D:536:LEU:HA	1:D:539:LYS:HE3	1.91	0.52
2:E:871:GLN:HG2	2:E:875:ARG:HD3	1.91	0.52
2:E:1058:SER:O	2:E:1062:GLU:HG2	2.09	0.52
2:E:1593:ILE:HB	2:E:1597:MET:HE1	1.92	0.52
2:B:646:ASN:HD21	2:B:649:ASN:HD22	1.57	0.52
2:B:853:VAL:O	2:B:856:LYS:HG3	2.10	0.52
2:B:1265:LEU:O	2:B:1269:GLU:N	2.30	0.52
2:B:1593:ILE:HA	2:B:1596:GLN:HB3	1.90	0.52
2:B:1615:LEU:O	2:B:1619:HIS:N	2.29	0.52
3:C:12:GLY:N	3:C:60:GLY:HA3	2.25	0.52
2:E:200:GLU:HA	2:E:203:SER:HB3	1.91	0.52
2:E:262:TRP:CZ3	2:E:268:PRO:HG3	2.44	0.52
2:E:789:ASN:HA	2:E:792:ARG:HD2	1.91	0.52
2:E:1249:ASP:HA	2:E:1252:ARG:NE	2.25	0.52
2:E:1404:ASN:HB2	2:E:1406:GLU:OE2	2.09	0.52
2:E:1626:PHE:CD2	2:E:1627:ARG:HD2	2.45	0.52
2:B:94:THR:HG22	2:B:98:TRP:HE1	1.74	0.52
2:B:730:TYR:CD1	2:B:771:ARG:HD3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:589:GLY:O	1:D:591:LEU:N	2.42	0.52
2:E:570:VAL:HG22	2:E:592:LYS:HZ2	1.74	0.52
2:E:570:VAL:HA	2:E:592:LYS:HZ2	1.73	0.52
2:E:889:GLN:HA	2:E:895:ASN:HD21	1.75	0.52
2:E:934:ARG:HB3	2:E:935:ARG:NH1	2.24	0.52
2:E:990:PHE:HB3	2:E:1045:ASN:CG	2.30	0.52
3:F:2:GLN:NE2	3:F:50:PRO:O	2.42	0.52
2:B:105:LEU:HD11	2:B:117:LEU:HD13	1.91	0.52
2:B:860:MET:SD	2:B:905:LEU:HD22	2.50	0.52
2:B:929:MET:CA	2:B:933:LEU:HD13	2.30	0.52
2:B:1129:PHE:CG	2:B:1179:HIS:HB3	2.45	0.52
2:B:1249:ASP:HA	2:B:1252:ARG:NE	2.25	0.52
2:B:1373:PRO:HG2	2:B:1376:LEU:HD12	1.91	0.52
1:D:536:LEU:HD21	2:E:17:TYR:CB	2.38	0.52
1:D:544:ILE:O	1:D:547:LEU:HG	2.09	0.52
3:F:82:PHE:HE1	3:F:154:TYR:HE1	1.58	0.52
2:B:182:ALA:HA	2:B:185:LYS:HZ2	1.73	0.52
2:B:222:TYR:CE1	2:B:289:LEU:HD11	2.45	0.52
2:B:528:ARG:HA	2:B:551:PHE:HA	1.92	0.52
2:B:1129:PHE:HA	2:B:1132:MET:HG3	1.92	0.52
3:C:2:GLN:NE2	3:C:50:PRO:O	2.42	0.52
2:E:94:THR:HG22	2:E:98:TRP:HE1	1.75	0.52
2:E:105:LEU:HD11	2:E:117:LEU:HD13	1.91	0.52
2:E:166:ARG:HH22	2:E:168:ASP:HB2	1.75	0.52
2:E:421:VAL:HG13	2:E:425:THR:HG21	1.92	0.52
2:E:853:VAL:O	2:E:856:LYS:HG3	2.10	0.52
2:E:860:MET:SD	2:E:905:LEU:HD22	2.50	0.52
2:E:984:ASP:O	2:E:988:GLU:HG3	2.09	0.52
2:E:1102:ILE:CG1	2:E:1131:MET:HB2	2.39	0.52
2:E:1207:TYR:HD2	2:E:1208:ARG:HG3	1.74	0.52
2:E:1359:GLN:NE2	2:E:1455:ARG:HB2	2.25	0.52
2:E:1449:GLN:HA	2:E:1452:ASN:ND2	2.23	0.52
2:E:1618:LEU:HD22	2:E:1621:ARG:HH21	1.75	0.52
3:F:12:GLY:N	3:F:60:GLY:HA3	2.25	0.52
1:A:700:ASP:HB2	2:B:32:GLY:HA2	1.92	0.52
2:B:1058:SER:O	2:B:1062:GLU:HG2	2.09	0.52
2:B:1370:GLN:N	2:B:1421:SER:O	2.40	0.52
3:C:2:GLN:OE1	3:C:2:GLN:N	2.43	0.52
3:C:53:LEU:HD22	3:C:169:PHE:CE1	2.45	0.52
3:C:174:ARG:HA	3:C:177:LEU:HD12	1.92	0.52
2:E:32:GLY:O	2:E:50:LEU:HD13	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:824:ILE:O	2:E:828:LYS:HG2	2.09	0.52
2:B:189:VAL:HA	2:B:192:LYS:HE2	1.91	0.52
2:B:222:TYR:CZ	2:B:289:LEU:HD11	2.44	0.52
2:B:228:PHE:HB3	2:B:277:LEU:HB3	1.92	0.52
2:B:889:GLN:HA	2:B:895:ASN:HD21	1.75	0.52
2:B:902:SER:O	2:B:906:LEU:HG	2.10	0.52
2:B:984:ASP:O	2:B:988:GLU:HG3	2.10	0.52
2:B:1490:THR:OG1	2:B:1506:GLN:N	2.43	0.52
2:B:1521:THR:O	2:B:1524:LEU:HG	2.09	0.52
1:D:584:LYS:HZ1	2:E:1405:ALA:HB2	1.74	0.52
2:E:228:PHE:HB3	2:E:277:LEU:HB3	1.92	0.52
2:E:681:MET:SD	2:E:726:ALA:HB1	2.50	0.52
2:E:741:VAL:HG11	2:E:798:PHE:HD1	1.75	0.52
2:E:795:PHE:O	2:E:798:PHE:HB2	2.10	0.52
2:E:934:ARG:NH1	2:E:938:ARG:HB2	2.25	0.52
2:E:1129:PHE:CG	2:E:1179:HIS:HB3	2.45	0.52
2:E:1544:VAL:HG13	2:E:1547:LEU:HD22	1.92	0.52
3:F:2:GLN:OE1	3:F:2:GLN:N	2.43	0.52
3:F:66:ARG:NH1	3:F:67:LEU:HB2	2.24	0.52
2:B:1153:THR:O	2:B:1157:GLN:NE2	2.43	0.51
1:D:711:PRO:HD2	2:E:17:TYR:CE1	2.45	0.51
2:E:646:ASN:HD21	2:E:649:ASN:HD22	1.57	0.51
2:E:1536:HIS:CD2	2:E:1606:ILE:HB	2.43	0.51
1:A:578:ARG:HH22	1:A:601:HIS:H	1.58	0.51
2:B:7:THR:O	2:B:10:GLN:NE2	2.42	0.51
2:B:60:PRO:O	2:B:64:ILE:N	2.37	0.51
2:B:555:MET:HE2	2:B:561:THR:HA	1.92	0.51
2:B:1079:MET:N	2:B:1079:MET:SD	2.83	0.51
3:C:142:GLY:HA3	3:C:154:TYR:CZ	2.44	0.51
2:E:294:VAL:HG11	2:E:333:ILE:HD12	1.91	0.51
2:E:902:SER:O	2:E:906:LEU:HG	2.10	0.51
2:B:32:GLY:O	2:B:50:LEU:HD13	2.09	0.51
2:B:1306:SER:O	2:B:1310:LYS:HG2	2.11	0.51
2:B:1322:LYS:HD3	2:B:1345:ARG:HH11	1.74	0.51
2:E:44:TRP:CE3	2:E:58:ILE:HG22	2.45	0.51
2:E:222:TYR:CE1	2:E:289:LEU:HD11	2.45	0.51
2:E:637:LEU:O	2:E:641:LEU:HG	2.11	0.51
2:E:1153:THR:O	2:E:1157:GLN:NE2	2.43	0.51
2:E:1600:LEU:O	2:E:1604:ILE:HG12	2.09	0.51
2:B:173:LEU:O	2:B:176:ASP:HB2	2.11	0.51
2:B:262:TRP:CZ3	2:B:268:PRO:HG3	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:295:SER:HB2	2:B:326:VAL:HG13	1.93	0.51
2:B:533:HIS:CE1	2:B:535:SER:HB3	2.44	0.51
2:B:741:VAL:HG11	2:B:798:PHE:HD1	1.75	0.51
2:B:1145:HIS:O	2:B:1149:ASN:ND2	2.44	0.51
2:B:1359:GLN:NE2	2:B:1455:ARG:HB2	2.25	0.51
2:B:1379:LYS:NZ	2:B:1504:VAL:O	2.36	0.51
2:B:1574:LYS:O	2:B:1577:GLN:HB2	2.11	0.51
1:D:576:TYR:CE1	1:D:591:LEU:HG	2.46	0.51
2:E:555:MET:HE2	2:E:561:THR:HA	1.93	0.51
2:E:929:MET:CA	2:E:933:LEU:HD13	2.30	0.51
2:E:1322:LYS:HD3	2:E:1345:ARG:HH11	1.74	0.51
2:E:1557:PRO:HB2	2:E:1561:GLY:CA	2.36	0.51
1:A:532:PRO:HG3	1:A:708:ASP:HA	1.93	0.51
1:A:576:TYR:CE1	1:A:591:LEU:HG	2.46	0.51
2:B:192:LYS:O	2:B:195:GLU:HG2	2.10	0.51
2:B:637:LEU:O	2:B:641:LEU:HG	2.11	0.51
2:B:795:PHE:O	2:B:798:PHE:HB2	2.11	0.51
3:C:82:PHE:HE1	3:C:154:TYR:HE1	1.58	0.51
2:E:73:ASP:O	2:E:78:GLU:N	2.42	0.51
2:E:295:SER:HB2	2:E:326:VAL:HG13	1.93	0.51
2:E:673:LEU:HD13	2:E:719:TYR:CG	2.45	0.51
1:A:551:GLN:NE2	1:A:555:ARG:HD3	2.25	0.51
2:B:219:ILE:O	2:B:222:TYR:OH	2.21	0.51
2:B:1308:PHE:CD1	2:B:1313:MET:HB2	2.46	0.51
2:B:1438:PRO:HB2	2:B:1441:TYR:CD2	2.46	0.51
1:D:582:ASN:HB2	1:D:584:LYS:HG2	1.91	0.51
2:E:25:VAL:HG21	2:E:56:LYS:HG3	1.93	0.51
2:E:243:MET:HG3	2:E:281:PHE:CZ	2.44	0.51
2:E:1079:MET:N	2:E:1079:MET:SD	2.83	0.51
2:E:1129:PHE:HA	2:E:1132:MET:HG3	1.92	0.51
2:E:1145:HIS:O	2:E:1149:ASN:ND2	2.44	0.51
2:E:1490:THR:OG1	2:E:1506:GLN:N	2.44	0.51
3:F:53:LEU:HD22	3:F:169:PHE:CE1	2.45	0.51
2:B:451:ILE:HG23	2:B:510:TYR:CZ	2.46	0.51
2:B:472:VAL:HA	2:B:527:ILE:HA	1.93	0.51
2:B:681:MET:SD	2:B:726:ALA:HB1	2.51	0.51
2:B:880:PRO:HA	2:B:931:ARG:NH1	2.25	0.51
2:B:1478:GLU:OE1	3:C:34:PRO:HG2	2.11	0.51
2:E:30:GLN:NE2	2:E:32:GLY:H	2.08	0.51
2:E:88:VAL:HB	2:E:128:ARG:NH2	2.26	0.51
2:E:179:SER:H	2:E:183:LEU:HD13	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:730:TYR:CE1	2:E:731:VAL:HG23	2.46	0.51
2:E:979:ARG:HG3	2:E:1032:PHE:HE2	1.76	0.51
2:E:1272:GLN:C	2:E:1297:LYS:HD2	2.29	0.51
2:E:1321:SER:OG	2:E:1345:ARG:NH2	2.42	0.51
1:A:544:ILE:HD11	1:A:686:LEU:O	2.10	0.51
1:A:582:ASN:HB2	1:A:584:LYS:HG2	1.91	0.51
2:B:46:ARG:HD2	2:B:58:ILE:HG13	1.91	0.51
2:B:166:ARG:HH22	2:B:168:ASP:HB2	1.75	0.51
1:D:532:PRO:HG3	1:D:708:ASP:HA	1.93	0.51
1:D:578:ARG:HH22	1:D:601:HIS:H	1.58	0.51
2:E:195:GLU:HA	2:E:198:ILE:HG22	1.92	0.51
2:E:880:PRO:HA	2:E:931:ARG:NH1	2.25	0.51
2:E:958:ILE:HG21	2:E:1017:PHE:CE1	2.46	0.51
2:E:1441:TYR:CE2	2:E:1450:ILE:HD13	2.46	0.51
1:A:677:MET:O	1:A:683:ARG:NH1	2.44	0.51
2:B:116:GLN:HA	2:B:119:GLN:HG3	1.93	0.51
2:B:421:VAL:HG13	2:B:425:THR:HG21	1.92	0.51
2:B:934:ARG:NH1	2:B:938:ARG:HB2	2.25	0.51
2:B:1032:PHE:HA	2:B:1036:ALA:HB2	1.93	0.51
2:B:1362:TYR:OH	2:B:1456:ALA:O	2.20	0.51
1:D:576:TYR:HE1	1:D:591:LEU:HG	1.75	0.51
1:D:677:MET:O	1:D:683:ARG:NH1	2.44	0.51
2:E:192:LYS:O	2:E:195:GLU:HG2	2.10	0.51
2:E:203:SER:OG	2:E:210:LEU:HD22	2.11	0.51
2:E:1308:PHE:CD1	2:E:1313:MET:HB2	2.46	0.51
2:E:1373:PRO:HG2	2:E:1376:LEU:HD12	1.91	0.51
2:E:1438:PRO:HB2	2:E:1441:TYR:CD2	2.46	0.51
2:E:1488:THR:O	2:E:1508:SER:N	2.39	0.51
2:B:14:VAL:HB	2:B:65:HIS:HB3	1.91	0.51
2:B:520:GLU:O	2:B:523:THR:OG1	2.15	0.51
2:B:1334:ASP:O	2:B:1338:LEU:N	2.33	0.51
2:B:1563:PHE:HB3	2:B:1637:TYR:OH	2.11	0.51
2:B:1593:ILE:HB	2:B:1597:MET:HE1	1.93	0.51
2:E:46:ARG:HD2	2:E:58:ILE:CG1	2.41	0.51
2:E:238:ASP:O	2:E:303:VAL:N	2.36	0.51
2:E:966:ASP:HA	2:E:969:TYR:CD2	2.46	0.51
2:E:1166:GLU:O	2:E:1169:LYS:HG2	2.10	0.51
2:E:1411:THR:HB	3:F:28:PHE:CZ	2.46	0.51
2:E:1495:PHE:CE1	2:E:1502:PHE:HD2	2.26	0.51
2:E:1614:GLN:HG2	3:F:70:LEU:HD22	1.93	0.51
3:F:174:ARG:HA	3:F:177:LEU:HD12	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:179:SER:H	2:B:183:LEU:HD13	1.76	0.50
2:B:228:PHE:HB3	2:B:277:LEU:CB	2.41	0.50
2:B:680:MET:HG3	2:B:681:MET:HE3	1.93	0.50
2:B:1102:ILE:CD1	2:B:1131:MET:HB2	2.41	0.50
2:B:1166:GLU:O	2:B:1169:LYS:HG2	2.10	0.50
2:B:1544:VAL:HG13	2:B:1547:LEU:HD22	1.91	0.50
1:A:577:CYS:SG	1:A:586:LEU:HD12	2.51	0.50
2:B:98:TRP:O	2:B:102:TRP:HD1	1.94	0.50
2:B:1522:MET:HG3	2:B:1566:TYR:HE2	1.75	0.50
1:D:697:ARG:HA	2:E:30:GLN:HE21	1.76	0.50
2:E:121:THR:HA	2:E:124:LEU:HG	1.93	0.50
2:E:1032:PHE:HA	2:E:1036:ALA:HB2	1.93	0.50
2:E:1563:PHE:HB3	2:E:1637:TYR:OH	2.11	0.50
2:E:1633:VAL:HG12	2:E:1637:TYR:CG	2.46	0.50
2:B:45:TYR:O	2:B:59:PHE:N	2.31	0.50
2:B:45:TYR:HD2	2:B:64:ILE:HG13	1.77	0.50
2:B:200:GLU:HA	2:B:203:SER:HB3	1.91	0.50
2:B:589:PRO:HB3	2:B:594:GLU:HB3	1.94	0.50
2:B:757:LEU:HB3	2:B:815:ALA:HB1	1.94	0.50
2:B:958:ILE:HG21	2:B:1017:PHE:CE1	2.46	0.50
2:B:1336:GLU:H	2:B:1336:GLU:CD	2.11	0.50
2:E:98:TRP:O	2:E:102:TRP:HD1	1.94	0.50
2:E:644:ARG:NH2	2:E:678:ASN:OD1	2.43	0.50
1:A:584:LYS:CE	2:B:1405:ALA:HB2	2.41	0.50
1:A:677:MET:HB2	1:A:682:THR:HG21	1.93	0.50
2:B:99:ALA:HA	2:B:102:TRP:HE1	1.75	0.50
2:B:332:ILE:HD13	2:B:403:LEU:HB2	1.94	0.50
2:B:836:LEU:HG	2:B:840:PHE:HE2	1.76	0.50
2:B:1051:VAL:HG11	2:B:1108:PRO:HB3	1.93	0.50
2:B:1618:LEU:HD22	2:B:1621:ARG:HH21	1.75	0.50
1:D:551:GLN:NE2	1:D:555:ARG:HD3	2.26	0.50
1:D:577:CYS:SG	1:D:586:LEU:HD12	2.51	0.50
1:D:584:LYS:NZ	2:E:1399:LEU:O	2.42	0.50
2:E:768:ILE:HG21	2:E:829:LEU:HB2	1.94	0.50
2:E:876:GLU:OE1	2:E:876:GLU:N	2.40	0.50
2:E:1180:CYS:HB3	2:E:1187:SER:HB3	1.94	0.50
2:E:1334:ASP:O	2:E:1338:LEU:N	2.33	0.50
3:F:14:VAL:HG13	3:F:116:LYS:NZ	2.27	0.50
1:A:696:LEU:HD12	1:A:697:ARG:NE	2.26	0.50
2:B:121:THR:HA	2:B:124:LEU:HG	1.93	0.50
2:B:673:LEU:HD13	2:B:719:TYR:CG	2.45	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:740:TYR:CE2	2:B:752:LEU:HB3	2.46	0.50
2:B:979:ARG:HG3	2:B:1032:PHE:HE2	1.76	0.50
2:B:1207:TYR:CD2	2:B:1208:ARG:HG3	2.47	0.50
2:B:1632:LYS:O	2:B:1636:HIS:N	2.41	0.50
2:E:321:PRO:HB2	2:E:351:ILE:HD11	1.93	0.50
2:E:757:LEU:HB3	2:E:815:ALA:HB1	1.94	0.50
2:E:931:ARG:HB3	2:E:932:LEU:HD12	1.94	0.50
2:E:1574:LYS:O	2:E:1577:GLN:HB2	2.11	0.50
2:B:195:GLU:HA	2:B:198:ILE:HG22	1.92	0.50
2:B:444:ASN:ND2	2:B:517:ILE:O	2.45	0.50
2:B:644:ARG:NH2	2:B:678:ASN:OD1	2.43	0.50
2:B:730:TYR:CE1	2:B:731:VAL:HG23	2.46	0.50
2:B:966:ASP:HA	2:B:969:TYR:CD2	2.46	0.50
2:B:1102:ILE:CG1	2:B:1131:MET:HB2	2.40	0.50
2:B:1418:ILE:HG13	2:B:1425:TYR:CE2	2.47	0.50
2:B:1602:GLU:N	2:B:1605:ARG:HH21	2.10	0.50
1:D:677:MET:HB2	1:D:682:THR:HG21	1.94	0.50
1:D:696:LEU:HD12	1:D:697:ARG:NE	2.26	0.50
2:E:37:ILE:HG21	2:E:45:TYR:HB3	1.94	0.50
2:E:836:LEU:HG	2:E:840:PHE:HE2	1.76	0.50
2:E:1482:MET:HG3	2:E:1517:ASN:HB3	1.93	0.50
3:F:25:THR:HG21	3:F:32:TYR:HA	1.93	0.50
2:B:1441:TYR:CE2	2:B:1450:ILE:HD13	2.46	0.50
2:B:1444:LYS:HD3	2:E:1333:PHE:HZ	1.77	0.50
1:D:544:ILE:HD11	1:D:686:LEU:O	2.10	0.50
2:E:116:GLN:HA	2:E:119:GLN:HG3	1.93	0.50
2:E:1046:TYR:OH	2:E:1090:MET:HG3	2.11	0.50
2:E:1306:SER:O	2:E:1310:LYS:HG2	2.11	0.50
2:E:1602:GLU:N	2:E:1605:ARG:HH21	2.10	0.50
2:B:88:VAL:HB	2:B:128:ARG:NH2	2.26	0.50
2:B:468:VAL:HB	2:B:498:SER:HB3	1.94	0.50
2:B:871:GLN:OE1	2:B:918:VAL:HG12	2.12	0.50
2:B:931:ARG:HB3	2:B:932:LEU:HD12	1.94	0.50
2:B:1062:GLU:O	2:B:1068:LYS:HB3	2.12	0.50
2:B:1362:TYR:C	2:B:1431:VAL:HG22	2.32	0.50
2:B:1378:ASN:HB3	2:B:1419:LYS:HD3	1.94	0.50
2:B:1562:GLY:HA2	2:B:1565:ASN:HB2	1.94	0.50
2:E:451:ILE:HG23	2:E:510:TYR:CZ	2.46	0.50
2:E:468:VAL:HB	2:E:498:SER:HB3	1.94	0.50
2:E:1102:ILE:CD1	2:E:1131:MET:HB2	2.41	0.50
2:E:1102:ILE:O	2:E:1106:VAL:HG23	2.12	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1126:PRO:HD3	2:E:1175:LEU:HD12	1.94	0.50
2:E:1463:ARG:HG2	2:E:1487:THR:H	1.77	0.50
2:B:1008:VAL:O	2:B:1012:THR:HG23	2.12	0.50
2:B:1598:PRO:O	2:B:1601:THR:HB	2.12	0.50
1:D:717:PRO:HB2	2:E:1:MET:N	2.27	0.50
2:E:45:TYR:HD2	2:E:64:ILE:HG13	1.77	0.50
2:E:173:LEU:O	2:E:176:ASP:HB2	2.11	0.50
2:E:319:ARG:HB2	2:E:499:VAL:HA	1.94	0.50
2:E:472:VAL:HA	2:E:527:ILE:HA	1.93	0.50
2:E:589:PRO:HB3	2:E:594:GLU:HB3	1.94	0.50
2:E:899:HIS:HB3	2:E:949:HIS:CE1	2.46	0.50
2:E:1062:GLU:O	2:E:1068:LYS:HB3	2.12	0.50
2:E:1200:LEU:O	2:E:1204:LEU:HG	2.12	0.50
2:B:25:VAL:CG2	2:B:57:GLY:HA2	2.40	0.49
2:B:46:ARG:HD2	2:B:58:ILE:CG1	2.41	0.49
2:B:450:LEU:HD21	2:B:470:MET:SD	2.52	0.49
2:B:945:ARG:HH11	2:B:946:GLN:H	1.60	0.49
2:B:1180:CYS:HB3	2:B:1187:SER:HB3	1.93	0.49
2:B:1299:LYS:HE2	2:B:1302:GLN:OE1	2.12	0.49
1:D:570:ARG:HH22	1:D:593:GLU:HG3	1.77	0.49
2:E:228:PHE:HB3	2:E:277:LEU:CB	2.41	0.49
2:E:818:LYS:HZ3	2:E:858:ASN:HB3	1.76	0.49
2:E:1063:THR:HA	2:E:1069:ARG:HH11	1.77	0.49
1:A:552:ARG:HE	1:A:664:ILE:HG23	1.77	0.49
2:B:741:VAL:HG11	2:B:798:PHE:CD1	2.47	0.49
2:B:1046:TYR:OH	2:B:1090:MET:HG3	2.11	0.49
2:B:1619:HIS:HA	2:B:1622:LEU:HG	1.93	0.49
2:E:150:ALA:HB1	2:E:197:LYS:NZ	2.27	0.49
2:E:444:ASN:ND2	2:E:517:ILE:O	2.45	0.49
2:E:741:VAL:HG21	2:E:798:PHE:HE1	1.78	0.49
2:E:1028:LEU:HD23	2:E:1032:PHE:HD1	1.77	0.49
2:E:1388:TYR:CD2	3:F:45:MET:HE2	2.44	0.49
2:E:1619:HIS:HA	2:E:1622:LEU:HG	1.93	0.49
2:B:25:VAL:HG21	2:B:56:LYS:HG3	1.93	0.49
2:B:95:LEU:HD13	2:B:98:TRP:CD1	2.47	0.49
2:B:1633:VAL:HG12	2:B:1637:TYR:CG	2.46	0.49
2:E:417:PHE:HA	2:E:419:HIS:CE1	2.48	0.49
2:E:740:TYR:CE2	2:E:752:LEU:HB3	2.46	0.49
2:E:1483:TRP:CE2	2:E:1514:PRO:HD3	2.47	0.49
2:B:156:ASN:HD22	2:B:161:LEU:HD12	1.77	0.49
2:B:1611:LEU:HD21	2:B:1616:LYS:NZ	2.27	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:25:VAL:CG2	2:E:57:GLY:HA2	2.40	0.49
2:E:754:PHE:CZ	2:E:812:ILE:HG13	2.48	0.49
2:B:130:GLN:HG3	2:B:131:ILE:HG12	1.95	0.49
2:B:203:SER:OG	2:B:210:LEU:HD22	2.11	0.49
2:B:321:PRO:HB2	2:B:351:ILE:HD11	1.93	0.49
2:B:436:ILE:HG22	2:B:438:LEU:HD22	1.95	0.49
2:B:768:ILE:HG21	2:B:829:LEU:HB2	1.94	0.49
2:B:899:HIS:HB3	2:B:949:HIS:CE1	2.46	0.49
2:B:1196:LEU:O	2:B:1199:SER:OG	2.26	0.49
2:B:1463:ARG:HG2	2:B:1487:THR:H	1.77	0.49
2:B:1468:PHE:HE2	2:B:1470:LYS:HB2	1.78	0.49
3:C:14:VAL:HG13	3:C:116:LYS:NZ	2.27	0.49
2:E:95:LEU:HD13	2:E:98:TRP:CD1	2.47	0.49
2:E:332:ILE:HD13	2:E:403:LEU:HB2	1.94	0.49
2:E:436:ILE:HG22	2:E:438:LEU:HD22	1.95	0.49
2:E:945:ARG:HH11	2:E:946:GLN:H	1.60	0.49
2:E:1207:TYR:CD2	2:E:1208:ARG:HG3	2.47	0.49
2:E:1451:LEU:O	2:E:1455:ARG:HG3	2.12	0.49
2:E:1515:LEU:HG	2:E:1575:TYR:HE2	1.77	0.49
2:E:1562:GLY:HA2	2:E:1565:ASN:HB2	1.94	0.49
2:E:1611:LEU:HD21	2:E:1616:LYS:NZ	2.27	0.49
1:A:570:ARG:HH22	1:A:593:GLU:HG3	1.77	0.49
2:B:1483:TRP:CE2	2:B:1514:PRO:HD3	2.47	0.49
2:B:1536:HIS:CD2	2:B:1606:ILE:HB	2.43	0.49
2:B:1597:MET:HA	2:B:1600:LEU:HB2	1.94	0.49
2:B:1613:GLU:OE2	2:B:1614:GLN:HG3	2.13	0.49
1:D:680:ASP:OD1	1:D:681:LEU:N	2.45	0.49
2:E:529:PHE:O	2:E:550:ALA:N	2.41	0.49
2:E:1597:MET:HA	2:E:1600:LEU:HB2	1.94	0.49
3:F:129:LEU:HB3	3:F:134:LEU:O	2.13	0.49
2:B:19:TYR:CE2	2:B:26:GLU:HB3	2.48	0.49
2:B:444:ASN:HB2	2:B:519:ILE:HG12	1.95	0.49
2:B:1102:ILE:O	2:B:1106:VAL:HG23	2.12	0.49
3:C:7:VAL:HB	3:C:78:PHE:CE1	2.48	0.49
3:C:25:THR:HG21	3:C:32:TYR:HA	1.94	0.49
2:E:1008:VAL:O	2:E:1012:THR:HG23	2.12	0.49
2:E:1202:GLU:HA	2:E:1205:LEU:HB2	1.95	0.49
2:B:417:PHE:HA	2:B:419:HIS:CE1	2.48	0.49
2:B:647:SER:HA	2:B:650:ILE:HG13	1.94	0.49
3:C:41:SER:OG	3:C:53:LEU:O	2.15	0.49
2:E:19:TYR:CE2	2:E:26:GLU:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:187:HIS:HB3	2:E:1006:TRP:CZ3	2.48	0.49
2:E:741:VAL:HG11	2:E:798:PHE:CD1	2.47	0.49
2:E:1242:ARG:NH1	2:E:1246:LYS:HZ1	2.10	0.49
1:A:589:GLY:O	1:A:591:LEU:N	2.42	0.49
2:B:940:VAL:HG13	2:B:992:MET:HE1	1.95	0.49
1:D:564:LYS:NZ	1:D:590:ASP:OD1	2.40	0.49
2:E:552:VAL:HB	2:E:569:LEU:HD22	1.95	0.49
2:E:646:ASN:ND2	2:E:649:ASN:HD22	2.11	0.49
2:E:871:GLN:OE1	2:E:918:VAL:HG12	2.12	0.49
2:E:1291:TYR:CB	2:E:1296:LEU:HD21	2.40	0.49
2:E:1388:TYR:HD2	3:F:45:MET:CE	2.24	0.49
2:E:1598:PRO:O	2:E:1601:THR:HB	2.12	0.49
1:A:680:ASP:OD1	1:A:681:LEU:N	2.45	0.49
2:B:4:TRP:CD2	2:B:46:ARG:HD3	2.47	0.49
2:B:552:VAL:HB	2:B:569:LEU:HD22	1.95	0.49
2:B:716:LEU:O	2:B:720:ILE:HG13	2.13	0.49
2:B:741:VAL:HG21	2:B:798:PHE:HE1	1.78	0.49
2:B:932:LEU:N	2:B:935:ARG:HH21	2.11	0.49
2:B:1114:LEU:CB	2:B:1163:ARG:HD2	2.41	0.49
2:B:1217:LYS:HD3	2:B:1220:ARG:NH1	2.22	0.49
2:B:1222:SER:O	2:B:1225:VAL:HG22	2.13	0.49
2:B:1359:GLN:HE21	2:B:1455:ARG:HB2	1.77	0.49
2:B:1451:LEU:O	2:B:1455:ARG:HG3	2.13	0.49
2:B:1623:SER:O	2:B:1627:ARG:HD3	2.13	0.49
3:C:60:GLY:HA2	3:C:97:TRP:HZ2	1.78	0.49
3:C:129:LEU:HB3	3:C:134:LEU:O	2.13	0.49
1:D:557:VAL:O	1:D:578:ARG:HG3	2.13	0.49
2:E:46:ARG:HB3	2:E:58:ILE:HA	1.95	0.49
2:E:444:ASN:HB2	2:E:519:ILE:HG12	1.95	0.49
2:E:730:TYR:HD1	2:E:787:PHE:CG	2.31	0.49
2:E:764:PHE:O	2:E:768:ILE:HG12	2.13	0.49
2:E:883:THR:HG21	2:E:931:ARG:HG2	1.95	0.49
2:E:1051:VAL:HG11	2:E:1108:PRO:HB3	1.93	0.49
2:E:1186:LEU:HD12	2:E:1189:SER:HB2	1.95	0.49
2:E:1378:ASN:HB3	2:E:1419:LYS:HD3	1.94	0.49
2:B:319:ARG:HB2	2:B:499:VAL:HA	1.94	0.48
2:B:526:HIS:HB2	2:B:552:VAL:O	2.13	0.48
2:B:1126:PRO:HD3	2:B:1175:LEU:HD12	1.94	0.48
2:B:1390:ARG:HD3	3:C:44:VAL:CG1	2.42	0.48
2:B:1463:ARG:HG3	2:B:1486:ARG:HB3	1.95	0.48
1:D:552:ARG:HE	1:D:664:ILE:HG23	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:166:ARG:HG2	2:E:173:LEU:H	1.77	0.48
2:E:471:SER:HB3	2:E:495:GLU:HG2	1.95	0.48
2:E:560:THR:HG22	2:E:638:LEU:HD23	1.95	0.48
2:E:643:TRP:CD1	2:E:675:ALA:HB1	2.48	0.48
2:E:647:SER:HA	2:E:650:ILE:HG13	1.93	0.48
2:E:759:ALA:O	2:E:763:LEU:HG	2.13	0.48
2:E:1299:LYS:HE2	2:E:1302:GLN:OE1	2.12	0.48
2:E:1379:LYS:HZ3	2:E:1504:VAL:HG12	1.78	0.48
1:A:584:LYS:NZ	2:B:1405:ALA:HB2	2.28	0.48
2:B:111:LEU:HD13	2:B:114:PHE:HD2	1.78	0.48
2:B:646:ASN:ND2	2:B:649:ASN:HD22	2.11	0.48
2:B:670:GLN:HG3	2:B:719:TYR:HD1	1.78	0.48
2:B:759:ALA:O	2:B:763:LEU:HG	2.13	0.48
2:B:1057:GLU:O	2:B:1080:ARG:HD3	2.12	0.48
2:B:1063:THR:HA	2:B:1069:ARG:HH11	1.77	0.48
2:B:1233:GLU:O	2:B:1235:LYS:NZ	2.22	0.48
2:B:1452:ASN:HA	2:B:1455:ARG:CZ	2.43	0.48
2:E:4:TRP:CD2	2:E:46:ARG:HD3	2.47	0.48
2:E:182:ALA:HA	2:E:185:LYS:HZ2	1.78	0.48
2:E:245:LEU:HB3	2:E:254:ILE:HD12	1.95	0.48
2:E:532:ARG:HB3	2:E:534:ARG:HD3	1.95	0.48
2:E:716:LEU:O	2:E:720:ILE:HG13	2.13	0.48
2:E:743:ASN:HB2	2:E:749:LYS:HD2	1.95	0.48
2:E:932:LEU:N	2:E:935:ARG:HH21	2.11	0.48
2:E:1362:TYR:C	2:E:1431:VAL:HG22	2.32	0.48
2:E:1623:SER:O	2:E:1627:ARG:HD3	2.13	0.48
3:F:94:ARG:HA	3:F:98:TYR:HB3	1.95	0.48
1:A:557:VAL:O	1:A:578:ARG:HG3	2.13	0.48
2:B:734:SER:HB3	2:B:787:PHE:HE1	1.79	0.48
2:B:929:MET:CE	2:B:972:TYR:HB3	2.43	0.48
2:B:1186:LEU:HD12	2:B:1189:SER:HB2	1.95	0.48
2:B:1200:LEU:O	2:B:1204:LEU:HG	2.12	0.48
2:E:182:ALA:HA	2:E:185:LYS:HZ3	1.77	0.48
2:E:450:LEU:HD21	2:E:470:MET:SD	2.52	0.48
2:B:150:ALA:HB1	2:B:197:LYS:NZ	2.27	0.48
2:B:238:ASP:O	2:B:303:VAL:N	2.36	0.48
2:B:242:PHE:HB3	2:B:257:ASN:HB3	1.96	0.48
2:B:643:TRP:CD1	2:B:675:ALA:HB1	2.48	0.48
2:B:730:TYR:HD1	2:B:787:PHE:CG	2.31	0.48
2:B:743:ASN:HB2	2:B:749:LYS:HD2	1.95	0.48
2:B:754:PHE:CZ	2:B:812:ILE:HG13	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1202:GLU:HA	2:B:1205:LEU:HB2	1.95	0.48
2:B:1242:ARG:NH1	2:B:1246:LYS:HZ1	2.11	0.48
2:B:1470:LYS:N	2:B:1481:THR:O	2.37	0.48
2:B:1596:GLN:O	2:B:1600:LEU:HG	2.13	0.48
3:C:2:GLN:HE22	3:C:49:LYS:HG3	1.78	0.48
3:C:58:THR:HB	3:C:68:ARG:HH12	1.78	0.48
3:C:94:ARG:HA	3:C:98:TYR:HB3	1.95	0.48
1:D:539:LYS:HE3	2:E:18:ASN:OD1	2.13	0.48
2:E:156:ASN:HD22	2:E:161:LEU:HD12	1.77	0.48
2:E:680:MET:HG3	2:E:681:MET:HE3	1.94	0.48
2:E:921:THR:OG1	2:E:924:HIS:HB3	2.14	0.48
2:E:1057:GLU:O	2:E:1080:ARG:HD3	2.12	0.48
2:E:1145:HIS:HA	2:E:1148:GLU:HG3	1.96	0.48
2:E:1362:TYR:CE2	2:E:1459:VAL:HG21	2.49	0.48
2:E:1383:TYR:CD2	2:E:1501:TRP:HB3	2.49	0.48
2:E:1596:GLN:O	2:E:1600:LEU:HG	2.13	0.48
2:E:1618:LEU:HD22	2:E:1621:ARG:NH2	2.28	0.48
3:F:39:ASN:OD1	3:F:57:ASP:N	2.47	0.48
2:B:72:GLU:HG3	2:B:74:LEU:H	1.79	0.48
2:B:187:HIS:HB3	2:B:1006:TRP:CZ3	2.48	0.48
2:B:764:PHE:O	2:B:768:ILE:HG12	2.13	0.48
2:B:987:MET:CE	2:B:1042:LEU:HD13	2.44	0.48
2:B:1481:THR:O	2:B:1483:TRP:HD1	1.97	0.48
3:C:6:CYS:SG	3:C:77:VAL:HG23	2.54	0.48
3:C:39:ASN:OD1	3:C:57:ASP:N	2.47	0.48
1:D:584:LYS:CD	2:E:1403:PRO:HA	2.43	0.48
2:E:4:TRP:HZ3	2:E:45:TYR:HA	1.78	0.48
2:E:734:SER:HB3	2:E:787:PHE:HE1	1.78	0.48
2:E:1196:LEU:HD22	2:E:1234:LYS:HD2	1.95	0.48
2:E:1275:ASP:OD2	2:E:1275:ASP:N	2.45	0.48
2:E:1383:TYR:CG	2:E:1501:TRP:HB3	2.49	0.48
2:E:1463:ARG:HG3	2:E:1486:ARG:HB3	1.95	0.48
2:E:1539:ASP:OD1	2:E:1541:SER:N	2.47	0.48
3:F:7:VAL:HB	3:F:78:PHE:CE1	2.48	0.48
2:B:98:TRP:HA	2:B:101:ILE:HG22	1.96	0.48
2:B:273:LYS:O	2:B:277:LEU:HG	2.14	0.48
2:B:471:SER:HB3	2:B:495:GLU:HG2	1.95	0.48
2:B:883:THR:HG21	2:B:931:ARG:HG2	1.95	0.48
2:B:1256:ASN:HB3	2:B:1259:GLU:OE1	2.14	0.48
2:B:1379:LYS:HZ3	2:B:1504:VAL:HG12	1.78	0.48
2:B:1460:GLN:OE1	2:B:1494:THR:HA	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1482:MET:HG3	2:B:1517:ASN:HB3	1.94	0.48
2:B:1517:ASN:O	2:B:1520:GLU:HG3	2.14	0.48
2:B:1557:PRO:O	2:B:1561:GLY:HA2	2.14	0.48
2:B:1618:LEU:HD22	2:B:1621:ARG:NH2	2.28	0.48
1:D:569:ARG:NH2	1:D:571:GLN:OE1	2.47	0.48
1:D:697:ARG:HD3	2:E:30:GLN:HG2	1.95	0.48
2:E:98:TRP:O	2:E:102:TRP:CD1	2.67	0.48
2:E:191:SER:HA	2:E:194:ILE:HD12	1.96	0.48
2:E:248:PRO:HD2	2:E:293:ARG:HG3	1.96	0.48
2:E:728:LEU:HA	2:E:730:TYR:CE2	2.49	0.48
2:E:915:ARG:HA	2:E:915:ARG:HH11	1.79	0.48
2:E:1359:GLN:HE21	2:E:1455:ARG:HB2	1.77	0.48
2:E:1618:LEU:O	2:E:1622:LEU:HG	2.14	0.48
3:F:58:THR:HB	3:F:68:ARG:HH12	1.78	0.48
2:B:669:LEU:HD11	2:B:716:LEU:HD13	1.95	0.48
2:B:915:ARG:HA	2:B:915:ARG:HH11	1.78	0.48
2:B:1028:LEU:HD23	2:B:1032:PHE:HD1	1.77	0.48
2:B:1098:LYS:HD2	2:B:1134:CYS:SG	2.54	0.48
2:B:1185:TYR:O	2:B:1188:SER:OG	2.18	0.48
2:B:1357:ARG:NH1	2:B:1456:ALA:HB3	2.28	0.48
2:E:72:GLU:HG3	2:E:74:LEU:H	1.79	0.48
2:E:230:ASN:HA	2:E:274:LEU:HD11	1.96	0.48
2:E:751:GLU:OE2	2:E:751:GLU:N	2.38	0.48
2:E:792:ARG:HA	2:E:795:PHE:HD2	1.78	0.48
2:E:1006:TRP:CE3	2:E:1009:MET:HG3	2.49	0.48
2:E:1372:PHE:HE1	2:E:1402:PHE:CD2	2.32	0.48
2:B:4:TRP:HZ3	2:B:45:TYR:HA	1.78	0.48
2:B:37:ILE:HG21	2:B:45:TYR:HB3	1.94	0.48
2:B:98:TRP:O	2:B:102:TRP:CD1	2.67	0.48
2:B:166:ARG:HG2	2:B:173:LEU:H	1.77	0.48
2:B:191:SER:HA	2:B:194:ILE:HD12	1.96	0.48
2:B:230:ASN:HA	2:B:274:LEU:HD11	1.96	0.48
2:B:529:PHE:O	2:B:550:ALA:N	2.41	0.48
2:B:532:ARG:HB3	2:B:534:ARG:HD3	1.95	0.48
2:B:728:LEU:O	2:B:732:LYS:HG2	2.14	0.48
2:B:737:LEU:HD23	2:B:764:PHE:CZ	2.49	0.48
2:B:983:ILE:HD11	2:B:1032:PHE:CD2	2.48	0.48
2:E:130:GLN:HG3	2:E:131:ILE:HG12	1.95	0.48
2:E:584:PHE:O	2:E:588:LEU:HG	2.14	0.48
2:E:670:GLN:HG3	2:E:719:TYR:HD1	1.78	0.48
2:E:1222:SER:O	2:E:1225:VAL:HG22	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1408:MET:HB3	2:E:1410:SER:HB3	1.96	0.48
3:F:110:ILE:O	3:F:152:VAL:HG12	2.14	0.48
3:F:145:MET:O	3:F:148:GLU:HB3	2.14	0.48
2:B:248:PRO:HD2	2:B:293:ARG:HG3	1.96	0.48
2:B:257:ASN:O	2:B:487:GLY:HA3	2.14	0.48
2:B:1078:ASP:OD1	2:B:1081:LYS:HG2	2.13	0.48
2:B:1145:HIS:HA	2:B:1148:GLU:HG3	1.96	0.48
2:B:1468:PHE:N	2:B:1483:TRP:O	2.47	0.48
2:B:1633:VAL:O	2:B:1639:VAL:HG22	2.14	0.48
1:D:536:LEU:HD21	2:E:17:TYR:CA	2.43	0.48
2:E:118:GLN:HB3	2:E:122:TYR:CZ	2.49	0.48
2:E:242:PHE:HB3	2:E:257:ASN:HB3	1.96	0.48
2:E:983:ILE:HD11	2:E:1032:PHE:CD2	2.48	0.48
2:E:1452:ASN:HA	2:E:1455:ARG:CZ	2.43	0.48
2:B:72:GLU:OE1	2:B:86:PRO:HG3	2.14	0.48
2:B:302:ARG:HD3	2:B:322:PHE:CD1	2.47	0.48
2:B:839:LEU:HG	2:B:842:LYS:HZ1	1.79	0.48
2:B:1387:GLU:HG2	2:B:1388:TYR:N	2.28	0.48
1:D:687:ASP:OD1	1:D:688:THR:N	2.47	0.48
1:D:716:GLU:HG3	2:E:44:TRP:CZ2	2.48	0.48
2:E:111:LEU:HD13	2:E:114:PHE:HD2	1.78	0.48
2:E:556:ASN:N	2:E:560:THR:O	2.41	0.48
2:E:728:LEU:O	2:E:732:LYS:HG2	2.14	0.48
2:E:754:PHE:CZ	2:E:811:LYS:HB2	2.49	0.48
2:E:754:PHE:HZ	2:E:811:LYS:HB2	1.78	0.48
2:E:1114:LEU:CB	2:E:1163:ARG:HD2	2.41	0.48
2:E:1344:LYS:HB3	2:E:1348:PHE:CZ	2.49	0.48
2:E:1468:PHE:N	2:E:1483:TRP:O	2.47	0.48
1:A:544:ILE:HG12	1:A:686:LEU:HG	1.95	0.47
2:B:754:PHE:CZ	2:B:811:LYS:HB2	2.49	0.47
2:B:792:ARG:HA	2:B:795:PHE:HD2	1.78	0.47
2:B:1133:GLN:NE2	2:B:1133:GLN:O	2.47	0.47
2:B:1362:TYR:CE2	2:B:1459:VAL:HG21	2.49	0.47
2:B:1368:TYR:CE2	2:B:1419:LYS:HE3	2.49	0.47
2:B:1408:MET:HB3	2:B:1410:SER:HB3	1.96	0.47
2:B:1483:TRP:CZ2	2:B:1513:SER:HA	2.49	0.47
2:B:1539:ASP:OD1	2:B:1541:SER:N	2.47	0.47
2:B:1560:MET:HG3	3:C:36:VAL:HG22	1.95	0.47
2:B:1622:LEU:O	2:B:1626:PHE:CB	2.61	0.47
2:E:1196:LEU:O	2:E:1199:SER:OG	2.26	0.47
2:E:1206:ASP:HA	2:E:1209:THR:HG22	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1256:ASN:HB3	2:E:1259:GLU:OE1	2.14	0.47
2:E:1460:GLN:OE1	2:E:1494:THR:HA	2.13	0.47
2:E:1517:ASN:O	2:E:1520:GLU:HG3	2.14	0.47
2:E:1557:PRO:O	2:E:1561:GLY:HA2	2.14	0.47
2:E:1613:GLU:OE2	2:E:1614:GLN:HG3	2.13	0.47
3:F:43:ASN:HA	3:F:51:VAL:O	2.14	0.47
3:F:155:LEU:HD13	3:F:168:VAL:HG22	1.95	0.47
2:B:179:SER:HA	2:B:962:GLN:HE22	1.79	0.47
2:B:893:ASN:O	2:B:896:LYS:NZ	2.47	0.47
2:B:1196:LEU:HD22	2:B:1234:LYS:HD2	1.94	0.47
3:C:120:ARG:HH12	3:C:139:TYR:HB2	1.79	0.47
2:E:724:PHE:CZ	2:E:726:ALA:HB3	2.49	0.47
2:E:929:MET:HB2	2:E:964:MET:CE	2.44	0.47
2:E:1123:ALA:O	2:E:1126:PRO:HG2	2.14	0.47
2:E:1125:ILE:CG1	2:E:1172:LEU:HD23	2.44	0.47
2:E:1280:PRO:HA	2:E:1283:LEU:HD23	1.96	0.47
2:E:1318:ILE:HD11	2:E:1348:PHE:HB2	1.97	0.47
2:E:1401:GLN:HG3	2:E:1402:PHE:CE2	2.49	0.47
2:E:1418:ILE:HG13	2:E:1425:TYR:CE2	2.47	0.47
3:F:120:ARG:HH12	3:F:139:TYR:HB2	1.79	0.47
1:A:642:PHE:HB3	1:A:662:TYR:HE1	1.79	0.47
1:A:687:ASP:OD1	1:A:688:THR:N	2.47	0.47
2:B:118:GLN:HB3	2:B:122:TYR:CZ	2.49	0.47
2:B:728:LEU:HA	2:B:730:TYR:CE2	2.49	0.47
2:B:921:THR:OG1	2:B:924:HIS:HB3	2.14	0.47
2:B:997:ILE:HG13	2:B:998:GLY:H	1.79	0.47
2:B:1515:LEU:HD23	2:B:1589:LEU:HD11	1.96	0.47
2:E:188:GLU:HG3	2:E:192:LYS:NZ	2.29	0.47
2:E:273:LYS:O	2:E:277:LEU:HG	2.14	0.47
2:E:893:ASN:O	2:E:896:LYS:NZ	2.47	0.47
2:E:929:MET:CE	2:E:972:TYR:HB3	2.43	0.47
2:E:1078:ASP:OD1	2:E:1081:LYS:HG2	2.13	0.47
2:E:1416:GLU:O	2:E:1419:LYS:HB2	2.15	0.47
3:F:60:GLY:HA2	3:F:97:TRP:HZ2	1.78	0.47
1:A:643:SER:HA	1:A:652:LEU:O	2.15	0.47
2:B:39:GLU:CD	2:B:46:ARG:HE	2.17	0.47
2:B:473:HIS:HB3	2:B:477:GLY:HA2	1.96	0.47
2:B:751:GLU:OE2	2:B:751:GLU:N	2.38	0.47
2:B:802:MET:HG2	2:B:843:PHE:HE1	1.79	0.47
2:B:928:ILE:O	2:B:932:LEU:HB2	2.15	0.47
2:B:1123:ALA:O	2:B:1126:PRO:HG2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1583:GLN:HG3	2:B:1586:VAL:HG12	1.97	0.47
2:B:1590:LYS:HB3	2:B:1639:VAL:HG12	1.97	0.47
3:C:155:LEU:HD13	3:C:168:VAL:HG22	1.95	0.47
1:D:563:ARG:HB2	1:D:655:ILE:O	2.14	0.47
1:D:585:VAL:HG12	1:D:607:LYS:HD2	1.96	0.47
2:E:257:ASN:O	2:E:487:GLY:HA3	2.14	0.47
2:E:288:ASP:OD1	2:E:291:ARG:NH2	2.47	0.47
2:E:526:HIS:HB2	2:E:552:VAL:O	2.13	0.47
2:E:669:LEU:HD11	2:E:716:LEU:HD13	1.95	0.47
2:E:737:LEU:HD23	2:E:764:PHE:CZ	2.49	0.47
2:E:795:PHE:HZ	2:E:836:LEU:HD12	1.79	0.47
2:E:1387:GLU:HG2	2:E:1388:TYR:N	2.28	0.47
2:E:1607:HIS:NE2	2:E:1619:HIS:HB2	2.29	0.47
3:F:2:GLN:HE22	3:F:49:LYS:HG3	1.79	0.47
3:F:6:CYS:SG	3:F:77:VAL:HG23	2.54	0.47
2:B:902:SER:HA	2:B:905:LEU:HD12	1.96	0.47
2:B:1122:LYS:HE2	2:B:1171:LEU:HD22	1.97	0.47
2:B:1280:PRO:HA	2:B:1283:LEU:HD23	1.96	0.47
2:B:1301:TYR:O	2:B:1305:ILE:HG12	2.15	0.47
2:B:1383:TYR:CD2	2:B:1501:TRP:HB3	2.49	0.47
2:B:1384:ARG:HE	2:B:1495:PHE:HB3	1.80	0.47
2:B:1601:THR:HG1	2:B:1626:PHE:HZ	1.63	0.47
3:C:43:ASN:HA	3:C:51:VAL:O	2.14	0.47
2:E:802:MET:HG2	2:E:843:PHE:HE1	1.79	0.47
2:E:909:ILE:HA	2:E:912:VAL:HG22	1.97	0.47
2:E:1468:PHE:HE2	2:E:1470:LYS:HB2	1.78	0.47
2:E:1515:LEU:HD23	2:E:1589:LEU:HD11	1.96	0.47
2:E:1534:GLN:HB3	2:E:1538:TRP:HZ3	1.80	0.47
2:E:1562:GLY:HA3	3:F:36:VAL:HG21	1.96	0.47
3:F:24:THR:HG21	3:F:40:TYR:HB3	1.97	0.47
1:A:625:MET:HE3	1:A:637:VAL:O	2.13	0.47
2:B:46:ARG:HB3	2:B:58:ILE:HA	1.95	0.47
2:B:1044:ASN:HA	2:B:1101:PHE:HZ	1.80	0.47
2:B:1169:LYS:HE3	2:B:1202:GLU:HB3	1.97	0.47
2:B:1383:TYR:CG	2:B:1501:TRP:HB3	2.49	0.47
2:B:1614:GLN:O	2:B:1618:LEU:HD23	2.15	0.47
1:D:642:PHE:HB3	1:D:662:TYR:HE1	1.79	0.47
2:E:902:SER:HA	2:E:905:LEU:HD12	1.96	0.47
2:E:1098:LYS:HD2	2:E:1134:CYS:SG	2.54	0.47
2:E:1570:PHE:HA	2:E:1575:TYR:CG	2.50	0.47
2:E:1590:LYS:HB3	2:E:1639:VAL:HG12	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:F:153:LYS:NZ	3:F:154:TYR:O	2.37	0.47
1:A:585:VAL:HG12	1:A:607:LYS:HD2	1.96	0.47
2:B:48:TYR:HB3	2:B:53:LYS:HA	1.96	0.47
2:B:105:LEU:CD1	2:B:117:LEU:HD13	2.45	0.47
2:B:166:ARG:HB2	2:B:174:ASP:H	1.79	0.47
2:B:188:GLU:HG3	2:B:192:LYS:HZ3	1.79	0.47
2:B:245:LEU:HB3	2:B:254:ILE:HD12	1.95	0.47
2:B:560:THR:HG22	2:B:638:LEU:HD23	1.95	0.47
2:B:584:PHE:O	2:B:588:LEU:HG	2.14	0.47
2:B:737:LEU:HD23	2:B:764:PHE:HZ	1.80	0.47
2:B:771:ARG:CZ	2:B:787:PHE:HB3	2.44	0.47
2:B:801:LEU:HA	2:B:804:ARG:NE	2.30	0.47
2:B:856:LYS:HZ3	2:B:885:GLN:HB2	1.78	0.47
2:B:868:LEU:HD11	2:B:871:GLN:HG3	1.97	0.47
2:B:909:ILE:HA	2:B:912:VAL:HG22	1.97	0.47
2:B:1249:ASP:HA	2:B:1252:ARG:CD	2.45	0.47
2:B:1323:GLU:HA	2:B:1326:GLU:HB3	1.97	0.47
2:B:1372:PHE:HE1	2:B:1402:PHE:CD2	2.32	0.47
2:B:1401:GLN:HG3	2:B:1402:PHE:CE2	2.49	0.47
2:B:1545:HIS:CB	3:C:5:LYS:HE2	2.43	0.47
2:B:1576:LEU:HG	2:B:1583:GLN:HG2	1.97	0.47
2:B:1599:LEU:HA	2:B:1602:GLU:OE1	2.15	0.47
2:B:1609:GLU:O	2:B:1610:LYS:HD2	2.15	0.47
2:B:1618:LEU:O	2:B:1622:LEU:HG	2.14	0.47
3:C:82:PHE:CE1	3:C:154:TYR:HE1	2.32	0.47
3:C:110:ILE:O	3:C:152:VAL:HG12	2.14	0.47
1:D:714:PRO:HD3	2:E:62:THR:HG21	1.96	0.47
2:E:60:PRO:O	2:E:64:ILE:N	2.37	0.47
2:E:98:TRP:HA	2:E:101:ILE:HG22	1.96	0.47
2:E:179:SER:HA	2:E:962:GLN:HE22	1.79	0.47
2:E:737:LEU:HD23	2:E:764:PHE:HZ	1.79	0.47
2:E:792:ARG:O	2:E:796:LEU:HG	2.15	0.47
2:E:895:ASN:O	2:E:899:HIS:N	2.48	0.47
2:E:979:ARG:HG3	2:E:1032:PHE:CE2	2.50	0.47
2:E:987:MET:O	2:E:991:ILE:HG12	2.15	0.47
2:E:997:ILE:HG13	2:E:998:GLY:H	1.79	0.47
2:E:1061:LEU:HA	2:E:1064:PHE:CE1	2.50	0.47
2:E:1368:TYR:HB2	2:E:1408:MET:HE1	1.97	0.47
2:E:1406:GLU:OE2	2:E:1423:LYS:HG3	2.14	0.47
2:E:1599:LEU:HA	2:E:1602:GLU:OE1	2.15	0.47
2:E:1622:LEU:O	2:E:1626:PHE:CB	2.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:563:ARG:HB2	1:A:655:ILE:O	2.14	0.47
1:A:569:ARG:NH2	1:A:571:GLN:OE1	2.47	0.47
2:B:26:GLU:OE1	2:B:29:LEU:HD11	2.14	0.47
2:B:222:TYR:CD1	2:B:289:LEU:HD21	2.50	0.47
2:B:331:ASP:HB3	2:B:336:LYS:HB2	1.97	0.47
2:B:450:LEU:O	2:B:509:TRP:HB2	2.15	0.47
2:B:720:ILE:HG12	2:B:766:PHE:CZ	2.50	0.47
2:B:754:PHE:HZ	2:B:811:LYS:HB2	1.78	0.47
2:B:1133:GLN:O	2:B:1136:PHE:HB3	2.15	0.47
2:B:1291:TYR:CB	2:B:1296:LEU:HD21	2.40	0.47
2:B:1318:ILE:HD11	2:B:1348:PHE:HB2	1.97	0.47
2:B:1406:GLU:C	2:B:1407:LYS:HD3	2.36	0.47
2:B:1570:PHE:HA	2:B:1575:TYR:CG	2.50	0.47
1:D:544:ILE:HG12	1:D:686:LEU:HG	1.95	0.47
2:E:26:GLU:OE1	2:E:29:LEU:HD11	2.14	0.47
2:E:39:GLU:CD	2:E:46:ARG:HE	2.17	0.47
2:E:45:TYR:N	2:E:59:PHE:O	2.48	0.47
2:E:166:ARG:HB2	2:E:174:ASP:H	1.79	0.47
2:E:1028:LEU:HD22	2:E:1043:TRP:CH2	2.50	0.47
2:E:1633:VAL:O	2:E:1639:VAL:HG22	2.14	0.47
1:A:584:LYS:HZ1	2:B:1405:ALA:HB2	1.78	0.47
2:B:724:PHE:CZ	2:B:726:ALA:HB3	2.49	0.47
2:B:802:MET:SD	2:B:846:SER:OG	2.58	0.47
2:B:1221:MET:O	2:B:1225:VAL:HG13	2.15	0.47
2:B:1570:PHE:HA	2:B:1575:TYR:CD2	2.50	0.47
2:E:95:LEU:HD21	2:E:124:LEU:CD1	2.45	0.47
2:E:163:LEU:HD22	2:E:187:HIS:HE1	1.80	0.47
2:E:1283:LEU:HD11	2:E:1291:TYR:HB2	1.97	0.47
2:E:1370:GLN:OE1	2:E:1377:ARG:NH1	2.48	0.47
2:E:1609:GLU:O	2:E:1610:LYS:HD2	2.15	0.47
3:F:7:VAL:CG2	3:F:71:SER:HB3	2.45	0.47
2:B:45:TYR:N	2:B:59:PHE:O	2.48	0.47
2:B:150:ALA:HB1	2:B:197:LYS:HZ1	1.79	0.47
2:B:157:ARG:HH21	2:B:198:ILE:HG12	1.80	0.47
2:B:225:TYR:CZ	2:B:227:ASN:HB2	2.50	0.47
2:B:531:PHE:CE2	2:B:571:VAL:HG22	2.50	0.47
2:B:869:PHE:HA	2:B:918:VAL:HA	1.97	0.47
2:B:929:MET:HB2	2:B:964:MET:CE	2.44	0.47
2:B:1007:MET:O	2:B:1011:MET:HG2	2.15	0.47
2:B:1344:LYS:HB3	2:B:1348:PHE:CZ	2.49	0.47
2:B:1406:GLU:OE2	2:B:1423:LYS:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:145:MET:O	3:C:148:GLU:HB3	2.14	0.47
1:D:625:MET:HE3	1:D:637:VAL:O	2.15	0.47
2:E:890:LEU:CD1	2:E:935:ARG:HA	2.45	0.47
2:E:928:ILE:O	2:E:932:LEU:HB2	2.15	0.47
2:E:986:LEU:HB3	2:E:1042:LEU:HD21	1.97	0.47
2:E:1308:PHE:HD1	2:E:1313:MET:HB2	1.79	0.47
2:E:1399:LEU:HD22	2:E:1405:ALA:HA	1.97	0.47
2:E:1481:THR:O	2:E:1483:TRP:HD1	1.97	0.47
3:F:113:VAL:HA	3:F:155:LEU:O	2.15	0.47
3:F:163:ARG:C	3:F:165:LEU:H	2.19	0.47
1:A:591:LEU:HD22	1:A:604:LEU:HD23	1.97	0.46
2:B:143:GLU:HA	2:B:146:LYS:HE2	1.97	0.46
2:B:188:GLU:HG3	2:B:192:LYS:NZ	2.29	0.46
2:B:521:GLU:HG3	2:B:524:ARG:CZ	2.45	0.46
2:B:876:GLU:OE1	2:B:876:GLU:N	2.40	0.46
2:B:890:LEU:CD1	2:B:935:ARG:HA	2.45	0.46
2:B:1308:PHE:HD1	2:B:1313:MET:HB2	1.79	0.46
3:C:113:VAL:HA	3:C:155:LEU:O	2.15	0.46
2:E:72:GLU:OE1	2:E:86:PRO:HG3	2.14	0.46
2:E:105:LEU:CD1	2:E:117:LEU:HD13	2.45	0.46
2:E:479:LEU:HD11	2:E:494:SER:HB3	1.97	0.46
2:E:800:MET:CE	2:E:804:ARG:HH21	2.28	0.46
2:E:869:PHE:HA	2:E:918:VAL:HA	1.97	0.46
2:E:1169:LYS:HE3	2:E:1202:GLU:HB3	1.97	0.46
2:E:1249:ASP:HA	2:E:1252:ARG:CD	2.45	0.46
2:E:1273:TRP:CD2	2:E:1297:LYS:HD3	2.50	0.46
2:E:1323:GLU:HA	2:E:1326:GLU:HB3	1.97	0.46
2:E:1601:THR:C	2:E:1605:ARG:HE	2.15	0.46
2:B:479:LEU:HD11	2:B:494:SER:HB3	1.97	0.46
2:B:485:HIS:O	2:B:514:LYS:N	2.48	0.46
2:B:640:LEU:HD21	2:B:676:LEU:HD21	1.97	0.46
2:E:179:SER:H	2:E:183:LEU:CD1	2.28	0.46
2:E:450:LEU:O	2:E:509:TRP:HB2	2.15	0.46
2:E:521:GLU:HG3	2:E:524:ARG:CZ	2.45	0.46
2:E:720:ILE:HG12	2:E:766:PHE:CZ	2.50	0.46
2:E:1337:GLY:HA2	2:E:1340:ASN:HD21	1.80	0.46
2:E:1432:LYS:HD3	2:E:1433:PRO:HD2	1.98	0.46
3:F:82:PHE:CE1	3:F:154:TYR:HE1	2.33	0.46
2:B:45:TYR:HE2	2:B:61:GLU:HG3	1.81	0.46
2:B:124:LEU:HD12	2:B:125:ILE:N	2.31	0.46
2:B:166:ARG:HB3	2:B:171:ASN:HA	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:530:THR:HA	2:B:549:VAL:HG22	1.96	0.46
2:B:1028:LEU:HD22	2:B:1043:TRP:CH2	2.50	0.46
2:B:1127:ILE:HA	2:B:1130:ASP:OD2	2.15	0.46
2:B:1136:PHE:HD1	2:B:1186:LEU:HD23	1.80	0.46
2:B:1399:LEU:HD22	2:B:1405:ALA:HA	1.97	0.46
3:C:24:THR:HG21	3:C:40:TYR:HB3	1.97	0.46
2:E:225:TYR:CZ	2:E:227:ASN:HB2	2.50	0.46
2:E:526:HIS:CE1	2:E:586:LEU:HD21	2.50	0.46
2:E:771:ARG:CZ	2:E:787:PHE:HB3	2.44	0.46
2:E:823:ILE:O	2:E:827:VAL:HG23	2.16	0.46
2:E:868:LEU:HD11	2:E:871:GLN:HG3	1.97	0.46
2:E:987:MET:CE	2:E:1042:LEU:HD13	2.44	0.46
2:E:1127:ILE:HA	2:E:1130:ASP:OD2	2.15	0.46
2:E:1133:GLN:NE2	2:E:1133:GLN:O	2.47	0.46
2:E:1362:TYR:OH	2:E:1456:ALA:O	2.20	0.46
2:E:1470:LYS:N	2:E:1481:THR:O	2.37	0.46
2:E:1563:PHE:O	2:E:1567:GLU:HG2	2.16	0.46
2:E:1576:LEU:HG	2:E:1583:GLN:HG2	1.97	0.46
2:E:1583:GLN:HG3	2:E:1586:VAL:HG12	1.97	0.46
2:E:1614:GLN:O	2:E:1618:LEU:HD23	2.15	0.46
3:F:53:LEU:HD22	3:F:169:PHE:HE1	1.80	0.46
3:F:122:ASP:O	3:F:126:ILE:HG12	2.16	0.46
1:A:566:ASN:OD1	1:A:633:GLN:NE2	2.49	0.46
1:A:624:HIS:HB3	1:A:653:ASN:HB3	1.97	0.46
1:A:727:ASN:H	2:B:46:ARG:HH21	1.62	0.46
2:B:62:THR:HG23	2:B:63:TYR:CD1	2.50	0.46
2:B:296:LEU:HB2	2:B:329:ILE:HG21	1.97	0.46
2:B:1515:LEU:HG	2:B:1575:TYR:HE2	1.76	0.46
3:C:21:ILE:HB	3:C:40:TYR:CE2	2.51	0.46
1:D:617:VAL:O	1:D:642:PHE:HA	2.15	0.46
1:D:643:SER:HA	1:D:652:LEU:O	2.15	0.46
2:E:124:LEU:HD12	2:E:125:ILE:N	2.31	0.46
2:E:296:LEU:HB2	2:E:329:ILE:HG21	1.97	0.46
2:E:473:HIS:HB3	2:E:477:GLY:HA2	1.96	0.46
2:E:640:LEU:HD21	2:E:676:LEU:HD21	1.97	0.46
2:E:802:MET:HG2	2:E:843:PHE:CE1	2.51	0.46
2:E:1057:GLU:HA	2:E:1061:LEU:HD22	1.98	0.46
2:E:1221:MET:O	2:E:1225:VAL:HG13	2.15	0.46
2:E:1231:TYR:HH	2:E:1243:TYR:HE1	1.62	0.46
2:E:1406:GLU:C	2:E:1407:LYS:HD3	2.35	0.46
2:E:1483:TRP:CZ2	2:E:1513:SER:HA	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1491:THR:HG21	2:E:1495:PHE:CE1	2.51	0.46
2:B:526:HIS:HE1	2:B:585:TYR:OH	1.99	0.46
2:B:840:PHE:O	2:B:844:ILE:HG13	2.16	0.46
2:B:895:ASN:O	2:B:899:HIS:N	2.48	0.46
2:B:979:ARG:HG3	2:B:1032:PHE:CE2	2.50	0.46
2:B:1061:LEU:HA	2:B:1064:PHE:CE1	2.50	0.46
2:B:1125:ILE:CG1	2:B:1172:LEU:HD23	2.44	0.46
2:B:1129:PHE:HZ	2:B:1183:HIS:HB2	1.81	0.46
2:B:1353:ILE:HG23	2:E:1335:TYR:CD2	2.51	0.46
2:B:1362:TYR:CE1	2:B:1384:ARG:HG3	2.50	0.46
2:B:1607:HIS:NE2	2:B:1619:HIS:HB2	2.29	0.46
3:C:7:VAL:CG2	3:C:71:SER:HB3	2.45	0.46
2:E:7:THR:HG22	2:E:9:ARG:H	1.80	0.46
2:E:820:LEU:HD12	2:E:823:ILE:HD11	1.98	0.46
2:E:958:ILE:HG21	2:E:1017:PHE:HE1	1.81	0.46
2:E:1007:MET:O	2:E:1011:MET:HG2	2.15	0.46
2:E:1133:GLN:O	2:E:1136:PHE:HB3	2.15	0.46
2:E:1362:TYR:CE1	2:E:1384:ARG:HG3	2.51	0.46
2:E:1368:TYR:CE2	2:E:1419:LYS:HE3	2.49	0.46
2:B:820:LEU:HD12	2:B:823:ILE:HD11	1.98	0.46
2:B:986:LEU:HB3	2:B:1042:LEU:HD21	1.97	0.46
2:B:1012:THR:O	2:B:1016:VAL:HG22	2.16	0.46
2:B:1057:GLU:HA	2:B:1061:LEU:HD22	1.98	0.46
2:B:1125:ILE:HA	2:B:1128:PHE:CD2	2.51	0.46
2:B:1181:ARG:C	2:B:1183:HIS:H	2.19	0.46
2:B:1206:ASP:HA	2:B:1209:THR:HG22	1.96	0.46
3:C:53:LEU:HD22	3:C:169:PHE:HE1	1.80	0.46
3:C:153:LYS:NZ	3:C:154:TYR:O	2.37	0.46
1:D:566:ASN:OD1	1:D:633:GLN:NE2	2.49	0.46
2:E:45:TYR:HE2	2:E:61:GLU:HG3	1.81	0.46
2:E:62:THR:HG23	2:E:63:TYR:CD1	2.50	0.46
2:E:157:ARG:HH21	2:E:198:ILE:HG12	1.80	0.46
2:E:485:HIS:O	2:E:514:LYS:N	2.48	0.46
2:E:529:PHE:HE2	2:E:552:VAL:HG12	1.81	0.46
2:E:801:LEU:HA	2:E:804:ARG:NE	2.30	0.46
2:E:907:SER:OG	2:E:908:ASN:N	2.49	0.46
2:E:1007:MET:HE3	2:E:1007:MET:H	1.81	0.46
2:E:1122:LYS:HE2	2:E:1171:LEU:HD22	1.97	0.46
2:E:1129:PHE:HZ	2:E:1183:HIS:HB2	1.81	0.46
2:E:1203:ASN:O	2:E:1207:TYR:CB	2.64	0.46
2:E:1249:ASP:O	2:E:1252:ARG:HD3	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1383:TYR:HA	2:E:1501:TRP:HA	1.98	0.46
2:E:1486:ARG:HB2	2:E:1510:GLU:HB2	1.98	0.46
2:E:1623:SER:HA	2:E:1627:ARG:HH11	1.81	0.46
3:F:21:ILE:HB	3:F:40:TYR:CE2	2.51	0.46
1:A:543:GLU:OE1	1:A:543:GLU:N	2.48	0.46
2:B:81:ILE:HD11	2:B:138:LYS:HE2	1.98	0.46
2:B:871:GLN:HB2	2:B:918:VAL:O	2.16	0.46
2:B:1139:SER:OG	2:B:1143:ASN:HA	2.16	0.46
2:B:1390:ARG:HD3	3:C:44:VAL:HG13	1.96	0.46
2:B:1486:ARG:HB2	2:B:1510:GLU:HB2	1.98	0.46
2:B:1563:PHE:O	2:B:1567:GLU:HG2	2.16	0.46
3:C:122:ASP:O	3:C:126:ILE:HG12	2.16	0.46
1:D:544:ILE:HD11	1:D:689:LEU:HB2	1.98	0.46
2:E:222:TYR:CD1	2:E:289:LEU:HD21	2.50	0.46
2:E:932:LEU:CA	2:E:935:ARG:HE	2.29	0.46
2:E:1125:ILE:HA	2:E:1128:PHE:CD2	2.51	0.46
2:B:95:LEU:HD21	2:B:124:LEU:CD1	2.45	0.46
2:B:98:TRP:CE3	2:B:101:ILE:HG21	2.51	0.46
2:B:245:LEU:HB2	2:B:254:ILE:HB	1.98	0.46
2:B:792:ARG:O	2:B:796:LEU:HG	2.15	0.46
2:B:856:LYS:NZ	2:B:885:GLN:HB2	2.31	0.46
2:B:929:MET:HG3	2:B:964:MET:HE1	1.98	0.46
2:B:932:LEU:CA	2:B:935:ARG:HE	2.29	0.46
2:B:990:PHE:HB3	2:B:1045:ASN:OD1	2.16	0.46
2:B:1111:GLU:HA	2:B:1114:LEU:HD12	1.98	0.46
2:B:1283:LEU:HD11	2:B:1291:TYR:HB2	1.97	0.46
2:B:1416:GLU:O	2:B:1419:LYS:HB2	2.15	0.46
2:B:1467:PRO:HA	2:B:1484:ILE:HD13	1.98	0.46
2:B:1491:THR:HG21	2:B:1495:PHE:CE1	2.51	0.46
2:E:245:LEU:HB2	2:E:254:ILE:HB	1.98	0.46
2:E:530:THR:HA	2:E:549:VAL:HG22	1.96	0.46
2:E:744:ALA:HB1	2:E:812:ILE:HD13	1.98	0.46
2:E:1044:ASN:HA	2:E:1101:PHE:HZ	1.80	0.46
2:E:1066:GLN:HA	2:E:1069:ARG:NH2	2.31	0.46
2:E:1404:ASN:HB3	2:E:1423:LYS:HD2	1.98	0.46
2:E:1570:PHE:HA	2:E:1575:TYR:CD2	2.50	0.46
2:E:1601:THR:HG22	2:E:1605:ARG:CZ	2.46	0.46
3:F:80:ILE:CD1	3:F:97:TRP:HB3	2.46	0.46
2:B:7:THR:HG22	2:B:9:ARG:H	1.80	0.46
2:B:677:PHE:HD1	2:B:680:MET:HE2	1.81	0.46
2:B:823:ILE:HA	2:B:826:ASP:OD2	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1203:ASN:O	2:B:1207:TYR:CB	2.64	0.46
2:B:1206:ASP:OD1	2:B:1207:TYR:N	2.49	0.46
3:C:80:ILE:CD1	3:C:97:TRP:HB3	2.46	0.46
2:E:48:TYR:HB3	2:E:53:LYS:HA	1.96	0.46
2:E:840:PHE:O	2:E:844:ILE:HG13	2.16	0.46
2:E:866:SER:C	2:E:868:LEU:H	2.19	0.46
2:E:933:LEU:H	2:E:935:ARG:NH2	2.14	0.46
2:E:1139:SER:OG	2:E:1143:ASN:HA	2.16	0.46
2:E:1379:LYS:NZ	2:E:1504:VAL:O	2.36	0.46
2:E:1457:ASN:O	2:E:1459:VAL:HG13	2.16	0.46
2:E:1466:ARG:O	2:E:1484:ILE:HA	2.16	0.46
3:F:53:LEU:HD22	3:F:173:ILE:HD11	1.97	0.46
2:B:526:HIS:CE1	2:B:586:LEU:HD21	2.50	0.46
2:B:578:LYS:HD3	2:B:584:PHE:CZ	2.51	0.46
2:B:802:MET:HE2	2:B:847:ILE:HD13	1.97	0.46
2:B:1062:GLU:OE2	2:B:1080:ARG:NH1	2.49	0.46
2:B:1370:GLN:OE1	2:B:1377:ARG:NH1	2.48	0.46
2:B:1566:TYR:HB3	2:B:1571:PHE:CE1	2.51	0.46
2:B:1606:ILE:HG13	2:B:1607:HIS:N	2.31	0.46
2:B:1623:SER:HA	2:B:1627:ARG:HH11	1.80	0.46
3:C:60:GLY:HA2	3:C:97:TRP:CZ2	2.51	0.46
2:E:554:LEU:HA	2:E:562:LEU:HB2	1.97	0.46
2:E:1002:TYR:OH	2:E:1013:GLN:HB2	2.16	0.46
2:E:1136:PHE:HD1	2:E:1186:LEU:HD23	1.80	0.46
2:E:1301:TYR:O	2:E:1305:ILE:HG12	2.15	0.46
2:E:1467:PRO:HA	2:E:1484:ILE:HD13	1.98	0.46
2:B:456:ASP:HB3	2:B:573:LYS:NZ	2.32	0.45
2:B:800:MET:CE	2:B:804:ARG:HH21	2.28	0.45
2:B:802:MET:HG2	2:B:843:PHE:CE1	2.51	0.45
2:B:1273:TRP:CD2	2:B:1297:LYS:HD3	2.50	0.45
2:B:1432:LYS:HD3	2:B:1433:PRO:HD2	1.98	0.45
2:B:1534:GLN:HB3	2:B:1538:TRP:HZ3	1.80	0.45
2:B:1601:THR:C	2:B:1605:ARG:HE	2.15	0.45
3:C:163:ARG:C	3:C:165:LEU:H	2.19	0.45
2:E:166:ARG:HB3	2:E:171:ASN:HA	1.97	0.45
2:E:446:ILE:HG12	2:E:626:ILE:HG12	1.98	0.45
2:E:531:PHE:CE2	2:E:571:VAL:HG22	2.50	0.45
2:E:1209:THR:O	2:E:1213:GLN:HB2	2.15	0.45
2:E:1357:ARG:NH1	2:E:1456:ALA:HB3	2.28	0.45
2:E:1566:TYR:HB3	2:E:1571:PHE:CE1	2.51	0.45
3:F:9:VAL:HG23	3:F:80:ILE:HA	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:545:LEU:HB2	1:A:686:LEU:HD11	1.98	0.45
2:B:19:TYR:HE2	2:B:26:GLU:HB3	1.82	0.45
2:B:127:TRP:HD1	2:B:130:GLN:NE2	2.14	0.45
2:B:554:LEU:HA	2:B:562:LEU:HB2	1.97	0.45
2:B:792:ARG:NE	2:B:835:GLU:OE1	2.50	0.45
2:B:795:PHE:HZ	2:B:836:LEU:HD12	1.79	0.45
2:B:844:ILE:O	2:B:847:ILE:HB	2.16	0.45
2:B:899:HIS:HD2	2:B:943:MET:HG2	1.81	0.45
2:B:907:SER:OG	2:B:908:ASN:N	2.49	0.45
2:B:987:MET:O	2:B:991:ILE:HG12	2.15	0.45
2:B:1066:GLN:HA	2:B:1069:ARG:NH2	2.31	0.45
2:B:1337:GLY:HA2	2:B:1340:ASN:HD21	1.80	0.45
2:B:1382:ILE:HD11	2:B:1489:TYR:HB3	1.99	0.45
2:E:127:TRP:HD1	2:E:130:GLN:NE2	2.14	0.45
1:A:711:PRO:HD2	2:B:17:TYR:CE1	2.51	0.45
2:B:464:LYS:HE2	2:B:464:LYS:HA	1.99	0.45
2:B:1007:MET:HE3	2:B:1007:MET:H	1.81	0.45
2:B:1516:GLU:HA	2:B:1519:ILE:HD12	1.98	0.45
2:E:143:GLU:HA	2:E:146:LYS:HE2	1.97	0.45
2:E:823:ILE:HA	2:E:826:ASP:OD2	2.16	0.45
2:E:856:LYS:HZ1	2:E:857:LEU:HD21	1.81	0.45
2:E:934:ARG:HD2	2:E:985:PHE:CD1	2.52	0.45
2:E:1157:GLN:O	2:E:1160:GLU:HB3	2.17	0.45
2:E:1181:ARG:C	2:E:1183:HIS:H	2.19	0.45
2:E:1334:ASP:OD2	2:E:1337:GLY:HA3	2.17	0.45
2:E:1435:MET:HE3	2:E:1455:ARG:HG2	1.99	0.45
2:E:1566:TYR:HD1	2:E:1566:TYR:HA	1.62	0.45
2:B:529:PHE:HE2	2:B:552:VAL:HG12	1.81	0.45
2:B:654:LEU:HD13	2:B:692:LEU:HB2	1.99	0.45
2:B:1209:THR:O	2:B:1213:GLN:HB2	2.15	0.45
2:B:1249:ASP:O	2:B:1252:ARG:HD3	2.16	0.45
3:C:93:VAL:O	3:C:98:TYR:HB3	2.16	0.45
1:D:591:LEU:HD22	1:D:604:LEU:HD23	1.97	0.45
2:E:19:TYR:HE2	2:E:26:GLU:HB3	1.82	0.45
2:E:331:ASP:HB3	2:E:336:LYS:HB2	1.97	0.45
2:E:419:HIS:CD2	2:E:420:LEU:HG	2.51	0.45
2:E:643:TRP:HD1	2:E:675:ALA:HB1	1.82	0.45
2:E:787:PHE:O	2:E:791:ILE:HG12	2.17	0.45
2:E:806:LEU:HD22	2:E:851:GLN:HB3	1.99	0.45
2:E:853:VAL:O	2:E:857:LEU:HG	2.17	0.45
2:E:1384:ARG:HE	2:E:1495:PHE:HB3	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1516:GLU:HA	2:E:1519:ILE:HD12	1.98	0.45
1:A:551:GLN:HE22	1:A:555:ARG:HD3	1.81	0.45
2:B:68:GLU:HB3	2:B:76:GLN:HE22	1.82	0.45
2:B:89:GLN:O	2:B:92:THR:OG1	2.31	0.45
2:B:179:SER:H	2:B:183:LEU:CD1	2.28	0.45
2:B:285:SER:HB2	2:B:435:GLU:CD	2.37	0.45
2:B:446:ILE:HG12	2:B:626:ILE:HG12	1.98	0.45
2:B:1078:ASP:OD1	2:B:1080:ARG:HB2	2.16	0.45
2:B:1155:LEU:O	2:B:1159:VAL:HG23	2.17	0.45
2:B:1229:ASN:O	2:B:1233:GLU:HG3	2.16	0.45
2:B:1404:ASN:HB3	2:B:1423:LYS:HD2	1.98	0.45
3:C:39:ASN:HB3	3:C:56:TRP:HA	1.98	0.45
3:C:53:LEU:HD22	3:C:173:ILE:HD11	1.97	0.45
1:D:545:LEU:HB2	1:D:686:LEU:HD11	1.98	0.45
1:D:662:TYR:HA	1:D:665:TRP:HE3	1.82	0.45
1:D:722:PHE:CE1	2:E:1:MET:HB3	2.42	0.45
2:E:98:TRP:CE3	2:E:101:ILE:HG21	2.51	0.45
2:E:526:HIS:HE1	2:E:585:TYR:OH	1.99	0.45
2:E:658:MET:SD	2:E:699:PHE:HD2	2.40	0.45
2:E:844:ILE:O	2:E:847:ILE:HB	2.16	0.45
2:E:990:PHE:HB3	2:E:1045:ASN:OD1	2.16	0.45
2:E:1479:PHE:HA	2:E:1482:MET:HG2	1.99	0.45
3:F:39:ASN:HA	3:F:57:ASP:N	2.30	0.45
1:A:617:VAL:O	1:A:642:PHE:HA	2.15	0.45
2:B:3:ARG:O	2:B:3:ARG:HD3	2.16	0.45
2:B:163:LEU:HD22	2:B:187:HIS:HE1	1.80	0.45
2:B:419:HIS:CD2	2:B:420:LEU:HG	2.51	0.45
2:B:823:ILE:O	2:B:827:VAL:HG23	2.16	0.45
2:B:1168:TYR:CZ	2:B:1172:LEU:HD11	2.52	0.45
2:B:1258:THR:HG22	2:B:1262:TYR:HE2	1.81	0.45
2:B:1411:THR:HB	3:C:28:PHE:CE1	2.52	0.45
2:B:1479:PHE:HA	2:B:1482:MET:HG2	1.99	0.45
2:B:1551:LEU:HB3	2:B:1622:LEU:HD21	1.99	0.45
2:B:1579:HIS:O	2:B:1583:GLN:NE2	2.36	0.45
1:D:711:PRO:HG2	2:E:16:ILE:CD1	2.46	0.45
2:E:5:ILE:N	2:E:40:MET:H	2.01	0.45
2:E:68:GLU:HB3	2:E:76:GLN:HE22	1.82	0.45
2:E:302:ARG:HH22	2:E:375:GLU:HG2	1.82	0.45
2:E:456:ASP:HB3	2:E:573:LYS:NZ	2.32	0.45
2:E:816:ALA:O	2:E:820:LEU:CB	2.63	0.45
2:E:969:TYR:CD2	2:E:1023:GLN:HG3	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1206:ASP:OD1	2:E:1207:TYR:N	2.49	0.45
1:A:617:VAL:HG13	1:A:645:LEU:HD11	1.98	0.45
2:B:485:HIS:HA	2:B:492:GLY:HA2	1.98	0.45
2:B:681:MET:HE1	2:B:729:ALA:HA	1.99	0.45
2:B:1466:ARG:O	2:B:1484:ILE:HA	2.17	0.45
3:C:9:VAL:HG23	3:C:80:ILE:HA	1.98	0.45
2:E:229:LYS:HE3	2:E:343:GLN:HG2	1.99	0.45
2:E:470:MET:CG	2:E:496:TYR:HB3	2.46	0.45
2:E:640:LEU:HD23	2:E:672:THR:HG23	1.98	0.45
2:E:1114:LEU:HA	2:E:1168:TYR:CZ	2.52	0.45
2:E:1120:LEU:HD12	2:E:1121:ARG:N	2.32	0.45
2:E:1268:ALA:HA	2:E:1271:LEU:HD13	1.99	0.45
2:E:1361:GLU:HB3	2:E:1430:THR:HG23	1.99	0.45
3:F:7:VAL:HB	3:F:78:PHE:CD1	2.52	0.45
3:F:39:ASN:HB3	3:F:56:TRP:HA	1.98	0.45
1:A:588:TYR:HE2	1:A:608:LEU:HB2	1.82	0.45
2:B:197:LYS:O	2:B:200:GLU:N	2.45	0.45
2:B:969:TYR:CD2	2:B:1023:GLN:HG3	2.52	0.45
2:B:1002:TYR:OH	2:B:1013:GLN:HB2	2.16	0.45
2:B:1170:VAL:O	2:B:1174:LYS:HG3	2.17	0.45
2:B:1365:VAL:N	2:B:1381:PHE:O	2.42	0.45
2:B:1601:THR:HG22	2:B:1605:ARG:CZ	2.46	0.45
2:B:1633:VAL:C	2:B:1639:VAL:HG22	2.37	0.45
1:D:711:PRO:CG	2:E:16:ILE:HG21	2.47	0.45
2:E:285:SER:HB2	2:E:435:GLU:CD	2.37	0.45
2:E:821:PRO:O	2:E:824:ILE:HG12	2.17	0.45
2:E:1062:GLU:OE2	2:E:1080:ARG:NH1	2.49	0.45
2:E:1065:SER:OG	2:E:1068:LYS:HE3	2.17	0.45
2:E:1111:GLU:HA	2:E:1114:LEU:HD12	1.98	0.45
2:E:1168:TYR:CZ	2:E:1172:LEU:HD11	2.52	0.45
3:F:93:VAL:O	3:F:98:TYR:HB3	2.16	0.45
1:A:544:ILE:HD11	1:A:689:LEU:HB2	1.98	0.45
1:A:662:TYR:HA	1:A:665:TRP:HE3	1.82	0.45
2:B:101:ILE:O	2:B:105:LEU:HG	2.17	0.45
2:B:103:ARG:HG3	2:B:104:LYS:N	2.32	0.45
2:B:470:MET:CG	2:B:496:TYR:HB3	2.46	0.45
2:B:957:MET:O	2:B:960:LEU:HB3	2.17	0.45
2:B:1283:LEU:HB3	2:B:1288:TYR:HE1	1.82	0.45
1:D:551:GLN:HE22	1:D:555:ARG:HD3	1.82	0.45
1:D:624:HIS:HB3	1:D:653:ASN:HB3	1.98	0.45
2:E:150:ALA:HB1	2:E:197:LYS:HZ1	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:856:LYS:NZ	2:E:885:GLN:HB2	2.31	0.45
2:E:862:LYS:O	2:E:865:GLU:HB3	2.17	0.45
2:E:871:GLN:HB2	2:E:918:VAL:O	2.16	0.45
2:E:1170:VAL:O	2:E:1174:LYS:HG3	2.17	0.45
2:E:1256:ASN:ND2	2:E:1500:LYS:HE2	2.32	0.45
2:B:1632:LYS:HA	2:B:1632:LYS:HD2	1.80	0.45
2:E:3:ARG:O	2:E:3:ARG:HD3	2.16	0.45
2:E:81:ILE:HD11	2:E:138:LYS:HE2	1.98	0.45
2:E:87:LEU:HB2	2:E:145:LYS:HE2	1.99	0.45
2:E:187:HIS:CD2	2:E:1008:VAL:HB	2.52	0.45
2:E:485:HIS:HA	2:E:492:GLY:HA2	1.98	0.45
2:E:1012:THR:O	2:E:1016:VAL:HG22	2.16	0.45
2:E:1078:ASP:OD1	2:E:1080:ARG:HB2	2.16	0.45
2:E:1369:GLY:HA3	2:E:1424:GLN:HA	1.99	0.45
2:E:1551:LEU:HB3	2:E:1622:LEU:HD21	1.99	0.45
3:F:60:GLY:HA2	3:F:97:TRP:CZ2	2.51	0.45
2:B:73:ASP:OD2	2:B:85:LEU:HB3	2.17	0.44
2:B:302:ARG:HH22	2:B:375:GLU:HG2	1.82	0.44
2:B:469:THR:HG22	2:B:495:GLU:HB3	1.99	0.44
2:B:640:LEU:HD23	2:B:672:THR:HG23	1.98	0.44
2:B:866:SER:C	2:B:868:LEU:H	2.19	0.44
2:B:1065:SER:OG	2:B:1068:LYS:HE3	2.17	0.44
2:B:1361:GLU:HB3	2:B:1430:THR:HG23	1.99	0.44
3:C:7:VAL:HB	3:C:78:PHE:CD1	2.52	0.44
1:D:577:CYS:SG	1:D:588:TYR:HB3	2.57	0.44
2:E:98:TRP:HE3	2:E:101:ILE:HG21	1.82	0.44
2:E:103:ARG:HG3	2:E:104:LYS:N	2.32	0.44
2:E:188:GLU:HG3	2:E:192:LYS:HZ3	1.82	0.44
2:E:349:GLN:NE2	2:E:350:GLN:O	2.32	0.44
2:E:422:ASP:OD1	2:E:422:ASP:N	2.50	0.44
2:E:792:ARG:NE	2:E:835:GLU:OE1	2.50	0.44
2:E:800:MET:O	2:E:804:ARG:HG3	2.17	0.44
2:E:929:MET:HG3	2:E:964:MET:HE1	1.99	0.44
2:E:987:MET:HE1	2:E:1042:LEU:HD13	1.99	0.44
2:E:1229:ASN:O	2:E:1233:GLU:HG3	2.16	0.44
2:E:1417:ASP:OD1	2:E:1418:ILE:HG12	2.17	0.44
2:E:1606:ILE:HG13	2:E:1607:HIS:N	2.31	0.44
1:A:696:LEU:HD12	1:A:697:ARG:HE	1.83	0.44
2:B:288:ASP:OD1	2:B:291:ARG:NH2	2.47	0.44
2:B:744:ALA:HB1	2:B:812:ILE:HD13	1.98	0.44
2:B:821:PRO:O	2:B:824:ILE:HG12	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:853:VAL:O	2:B:857:LEU:HG	2.17	0.44
2:B:862:LYS:O	2:B:865:GLU:HB3	2.17	0.44
2:B:922:ALA:HA	2:B:925:ILE:HD12	2.00	0.44
2:B:933:LEU:H	2:B:935:ARG:NH2	2.14	0.44
2:B:1042:LEU:HD12	2:B:1042:LEU:O	2.18	0.44
2:B:1114:LEU:HA	2:B:1168:TYR:CZ	2.52	0.44
2:B:1183:HIS:CG	2:B:1187:SER:HG	2.30	0.44
2:B:1597:MET:CE	2:B:1633:VAL:HG11	2.47	0.44
1:D:617:VAL:HG13	1:D:645:LEU:HD11	1.97	0.44
2:E:19:TYR:CD1	2:E:20:ASN:N	2.86	0.44
2:E:690:ASP:OD2	2:E:732:LYS:HB3	2.17	0.44
2:E:1199:SER:O	2:E:1202:GLU:HG2	2.18	0.44
2:E:1217:LYS:HD2	2:E:1220:ARG:HH22	1.82	0.44
2:E:1382:ILE:O	2:E:1502:PHE:N	2.42	0.44
2:E:1469:ARG:HB3	2:E:1473:LYS:HD2	1.98	0.44
1:A:616:VAL:HG23	1:A:643:SER:C	2.38	0.44
2:B:225:TYR:HD2	2:B:404:LYS:HB2	1.83	0.44
2:B:229:LYS:HE3	2:B:343:GLN:HG2	1.99	0.44
2:B:658:MET:SD	2:B:699:PHE:HD2	2.40	0.44
2:B:860:MET:SD	2:B:861:THR:N	2.91	0.44
2:B:1180:CYS:CB	2:B:1191:GLU:HG3	2.47	0.44
2:B:1369:GLY:HA3	2:B:1424:GLN:HA	1.99	0.44
2:B:1382:ILE:O	2:B:1502:PHE:N	2.42	0.44
2:B:1417:ASP:OD1	2:B:1418:ILE:HG12	2.17	0.44
2:B:1488:THR:O	2:B:1508:SER:N	2.39	0.44
3:C:11:ASP:OD1	3:C:11:ASP:N	2.49	0.44
2:E:930:GLU:HG2	2:E:972:TYR:CD1	2.53	0.44
2:E:1098:LYS:O	2:E:1102:ILE:N	2.50	0.44
2:E:1177:LEU:O	2:E:1181:ARG:HD2	2.18	0.44
2:E:1180:CYS:CB	2:E:1191:GLU:HG3	2.47	0.44
2:B:19:TYR:OH	2:B:44:TRP:HZ3	2.00	0.44
2:B:328:ASP:OD1	2:B:390:LYS:HE2	2.17	0.44
2:B:480:LEU:HD23	2:B:483:ALA:HB2	2.00	0.44
2:B:806:LEU:HD22	2:B:851:GLN:HB3	1.99	0.44
2:B:934:ARG:HD2	2:B:985:PHE:CD1	2.52	0.44
2:B:934:ARG:HH12	2:B:938:ARG:HB2	1.83	0.44
2:B:974:SER:HB2	2:B:1031:PHE:CE1	2.52	0.44
2:B:1002:TYR:CE1	2:B:1010:ASN:HA	2.52	0.44
2:B:1120:LEU:HD12	2:B:1121:ARG:N	2.32	0.44
2:B:1320:LEU:HA	2:B:1323:GLU:OE2	2.18	0.44
2:B:1334:ASP:OD2	2:B:1337:GLY:HA3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1398:LEU:HB3	2:B:1426:MET:SD	2.58	0.44
2:B:1441:TYR:HD2	2:B:1450:ILE:HG21	1.82	0.44
2:E:23:GLN:HG2	2:E:58:ILE:HB	2.00	0.44
2:E:104:LYS:HD3	2:E:107:VAL:HB	2.00	0.44
2:E:464:LYS:HE2	2:E:464:LYS:HA	1.99	0.44
2:E:468:VAL:HG21	2:E:620:PHE:CE1	2.53	0.44
2:E:889:GLN:NE2	2:E:898:ASP:OD2	2.50	0.44
2:E:994:LYS:HA	2:E:997:ILE:HG12	1.99	0.44
2:E:1393:ASP:O	2:E:1396:LEU:HB3	2.18	0.44
3:F:42:ALA:O	3:F:53:LEU:HG	2.17	0.44
2:B:816:ALA:O	2:B:820:LEU:CB	2.63	0.44
2:B:889:GLN:NE2	2:B:898:ASP:OD2	2.50	0.44
2:B:979:ARG:HA	2:B:982:ILE:HG22	2.00	0.44
2:B:1240:TYR:CE2	2:B:1244:LEU:HD11	2.53	0.44
2:E:19:TYR:CG	2:E:59:PHE:CE1	3.05	0.44
2:E:319:ARG:NH1	2:E:511:GLU:OE2	2.48	0.44
2:E:438:LEU:HB2	2:E:441:ASP:OD1	2.17	0.44
2:E:578:LYS:HD3	2:E:584:PHE:CZ	2.51	0.44
2:E:764:PHE:HD1	2:E:823:ILE:HB	1.83	0.44
2:E:802:MET:HE2	2:E:847:ILE:HD13	2.00	0.44
2:E:957:MET:O	2:E:960:LEU:HB3	2.17	0.44
2:E:1221:MET:SD	2:E:1250:LEU:HB3	2.58	0.44
2:E:1249:ASP:O	2:E:1252:ARG:NH1	2.51	0.44
2:E:1382:ILE:HD11	2:E:1489:TYR:HB3	1.99	0.44
2:E:1382:ILE:HD11	2:E:1504:VAL:HG23	1.99	0.44
2:E:1610:LYS:HD2	2:E:1610:LYS:HA	1.73	0.44
1:A:577:CYS:SG	1:A:588:TYR:HB3	2.57	0.44
2:B:166:ARG:CD	2:B:173:LEU:HB2	2.47	0.44
2:B:187:HIS:CD2	2:B:1008:VAL:HB	2.52	0.44
2:B:732:LYS:HA	2:B:732:LYS:HD3	1.84	0.44
2:B:819:TYR:O	2:B:822:SER:OG	2.23	0.44
2:B:868:LEU:O	2:B:918:VAL:HG13	2.18	0.44
2:B:958:ILE:HG21	2:B:1017:PHE:HE1	1.81	0.44
2:B:994:LYS:HA	2:B:997:ILE:HG12	2.00	0.44
2:B:1221:MET:SD	2:B:1250:LEU:HB3	2.58	0.44
2:B:1268:ALA:HB2	2:B:1300:LEU:HD13	1.99	0.44
2:B:1435:MET:HE3	2:B:1455:ARG:HG2	1.99	0.44
2:B:1560:MET:O	3:C:36:VAL:HG13	2.18	0.44
2:E:101:ILE:O	2:E:105:LEU:HG	2.17	0.44
2:E:974:SER:HB2	2:E:1031:PHE:CE1	2.52	0.44
2:E:1027:VAL:HG22	2:E:1032:PHE:HE1	1.83	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1320:LEU:HA	2:E:1323:GLU:OE2	2.17	0.44
2:E:1343:LYS:HE3	2:E:1343:LYS:HB3	1.85	0.44
2:E:1633:VAL:C	2:E:1639:VAL:HG22	2.37	0.44
1:A:551:GLN:HG3	2:B:106:TYR:CE2	2.53	0.44
2:B:166:ARG:HH21	2:B:169:ASN:ND2	2.14	0.44
2:B:1006:TRP:CE3	2:B:1009:MET:HG3	2.49	0.44
2:B:1383:TYR:HA	2:B:1501:TRP:HA	1.98	0.44
2:B:1495:PHE:HE1	2:B:1502:PHE:CD2	2.31	0.44
2:B:1567:GLU:O	2:B:1572:THR:N	2.47	0.44
3:C:42:ALA:O	3:C:53:LEU:HG	2.17	0.44
2:E:73:ASP:OD2	2:E:85:LEU:HB3	2.17	0.44
2:E:95:LEU:HA	2:E:98:TRP:HB2	2.00	0.44
2:E:145:LYS:O	2:E:148:VAL:HG12	2.17	0.44
2:E:166:ARG:HH21	2:E:169:ASN:ND2	2.14	0.44
2:E:247:ASP:O	2:E:251:SER:N	2.42	0.44
2:E:654:LEU:HD13	2:E:692:LEU:HB2	1.98	0.44
2:E:795:PHE:CZ	2:E:836:LEU:HD12	2.53	0.44
2:E:795:PHE:CE2	2:E:839:LEU:HD13	2.52	0.44
2:E:860:MET:SD	2:E:861:THR:N	2.90	0.44
2:E:940:VAL:HA	2:E:943:MET:HE2	2.00	0.44
2:E:1218:GLU:HB2	2:E:1501:TRP:CZ2	2.52	0.44
2:E:1417:ASP:OD1	2:E:1417:ASP:N	2.51	0.44
3:F:72:TYR:HB2	3:F:73:PRO:HD3	2.00	0.44
1:A:532:PRO:O	1:A:536:LEU:HD13	2.18	0.44
1:A:544:ILE:HG23	1:A:545:LEU:H	1.83	0.44
2:B:19:TYR:CD1	2:B:20:ASN:N	2.86	0.44
2:B:643:TRP:HD1	2:B:675:ALA:HB1	1.82	0.44
2:B:795:PHE:CE2	2:B:839:LEU:HD13	2.52	0.44
2:B:1393:ASP:O	2:B:1396:LEU:HB3	2.18	0.44
2:B:1469:ARG:HB3	2:B:1473:LYS:HD2	1.98	0.44
3:C:21:ILE:HD11	3:C:35:THR:HG23	2.00	0.44
3:C:72:TYR:HB2	3:C:73:PRO:HD3	2.00	0.44
3:C:85:VAL:O	3:C:129:LEU:HD21	2.18	0.44
1:D:585:VAL:HB	1:D:606:ASP:O	2.18	0.44
2:E:19:TYR:CZ	2:E:60:PRO:HD3	2.53	0.44
2:E:204:ILE:HG23	2:E:211:ARG:CZ	2.48	0.44
2:E:1361:GLU:OE2	2:E:1388:TYR:HA	2.18	0.44
2:E:1567:GLU:O	2:E:1572:THR:N	2.47	0.44
2:E:1597:MET:CE	2:E:1633:VAL:HG11	2.47	0.44
2:B:285:SER:OG	2:B:288:ASP:OD2	2.33	0.44
2:B:663:GLY:O	2:B:667:LYS:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:690:ASP:OD2	2:B:732:LYS:HB3	2.17	0.44
2:B:787:PHE:O	2:B:791:ILE:HG12	2.17	0.44
2:B:820:LEU:HB3	2:B:821:PRO:HD3	2.00	0.44
2:B:931:ARG:C	2:B:932:LEU:HD12	2.38	0.44
2:B:1217:LYS:HD2	2:B:1220:ARG:HH22	1.82	0.44
2:B:1224:THR:HA	2:B:1227:VAL:HG12	1.99	0.44
2:B:1483:TRP:HA	2:B:1512:ILE:O	2.18	0.44
1:D:616:VAL:HG23	1:D:643:SER:C	2.38	0.44
2:E:19:TYR:OH	2:E:44:TRP:HZ3	2.00	0.44
2:E:162:ASP:OD2	2:E:1071:LYS:NZ	2.51	0.44
2:E:302:ARG:HG3	2:E:320:ARG:HB2	2.00	0.44
2:E:471:SER:N	2:E:528:ARG:O	2.35	0.44
2:E:663:GLY:O	2:E:667:LYS:HG3	2.17	0.44
2:E:911:GLU:O	2:E:915:ARG:HG2	2.18	0.44
2:E:958:ILE:HB	2:E:1016:VAL:CG2	2.48	0.44
2:E:1002:TYR:CE1	2:E:1010:ASN:HA	2.52	0.44
2:E:1268:ALA:HB2	2:E:1300:LEU:HD13	1.99	0.44
2:E:1337:GLY:HA2	2:E:1340:ASN:ND2	2.33	0.44
2:B:572:TYR:OH	2:B:589:PRO:HD2	2.17	0.43
2:B:800:MET:O	2:B:804:ARG:HG3	2.17	0.43
2:B:820:LEU:O	2:B:824:ILE:HG23	2.18	0.43
2:B:930:GLU:HG2	2:B:972:TYR:CD1	2.53	0.43
2:B:987:MET:HE1	2:B:1042:LEU:HD13	1.99	0.43
2:B:1056:HIS:HD1	2:B:1057:GLU:CD	2.17	0.43
2:B:1256:ASN:ND2	2:B:1500:LYS:HE2	2.32	0.43
2:B:1368:TYR:HB2	2:B:1408:MET:HE1	1.99	0.43
2:E:572:TYR:OH	2:E:589:PRO:HD2	2.17	0.43
2:E:1062:GLU:O	2:E:1069:ARG:HD3	2.18	0.43
2:E:1063:THR:HA	2:E:1069:ARG:HD2	2.00	0.43
2:E:1398:LEU:HB3	2:E:1426:MET:SD	2.58	0.43
2:E:1483:TRP:HA	2:E:1512:ILE:O	2.18	0.43
1:A:585:VAL:HB	1:A:606:ASP:O	2.18	0.43
1:A:711:PRO:HD2	2:B:17:TYR:CD1	2.53	0.43
2:B:87:LEU:HA	2:B:90:GLU:HG3	2.00	0.43
2:B:98:TRP:HE3	2:B:101:ILE:HG21	1.82	0.43
2:B:438:LEU:HB2	2:B:441:ASP:OD1	2.17	0.43
2:B:556:ASN:N	2:B:560:THR:O	2.41	0.43
2:B:853:VAL:HG23	2:B:854:ARG:N	2.33	0.43
2:B:908:ASN:O	2:B:912:VAL:HG22	2.18	0.43
2:B:1218:GLU:HB2	2:B:1501:TRP:CZ2	2.52	0.43
2:B:1263:THR:HA	2:B:1266:LEU:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1545:HIS:O	2:B:1549:MET:HG2	2.18	0.43
1:D:532:PRO:O	1:D:536:LEU:HD13	2.18	0.43
1:D:588:TYR:HE2	1:D:608:LEU:HB2	1.82	0.43
2:E:87:LEU:HA	2:E:90:GLU:HG3	2.00	0.43
2:E:730:TYR:CE1	2:E:771:ARG:HD3	2.53	0.43
2:E:853:VAL:HG23	2:E:854:ARG:N	2.33	0.43
2:E:1056:HIS:HD1	2:E:1057:GLU:CD	2.17	0.43
2:E:1240:TYR:CE2	2:E:1244:LEU:HD11	2.53	0.43
3:F:39:ASN:CA	3:F:57:ASP:H	2.27	0.43
2:B:5:ILE:N	2:B:40:MET:H	2.01	0.43
2:B:145:LYS:O	2:B:148:VAL:HG12	2.17	0.43
2:B:204:ILE:HG23	2:B:211:ARG:CZ	2.48	0.43
2:B:305:HIS:CD2	2:B:314:HIS:HB2	2.53	0.43
2:B:305:HIS:HA	2:B:315:THR:O	2.18	0.43
2:B:499:VAL:HB	2:B:509:TRP:HD1	1.84	0.43
2:B:821:PRO:HA	2:B:824:ILE:HG12	2.01	0.43
2:B:1157:GLN:O	2:B:1160:GLU:HB3	2.17	0.43
2:B:1268:ALA:HA	2:B:1271:LEU:HD13	1.99	0.43
2:E:225:TYR:HD2	2:E:404:LYS:HB2	1.83	0.43
2:E:1022:ASN:O	2:E:1026:GLU:OE1	2.36	0.43
2:E:1324:LEU:HD23	2:E:1341:LEU:HD13	2.01	0.43
2:E:1365:VAL:N	2:E:1381:PHE:O	2.42	0.43
2:E:1583:GLN:O	2:E:1586:VAL:HG12	2.18	0.43
1:A:579:LEU:HD12	1:A:580:SER:H	1.84	0.43
2:B:438:LEU:N	2:B:441:ASP:OD2	2.51	0.43
2:B:500:VAL:HG11	2:B:534:ARG:HB2	2.00	0.43
2:B:714:PRO:O	2:B:718:THR:OG1	2.26	0.43
2:B:730:TYR:CE1	2:B:771:ARG:HD3	2.53	0.43
2:B:1063:THR:HA	2:B:1069:ARG:HD2	2.00	0.43
2:B:1249:ASP:O	2:B:1252:ARG:NH1	2.51	0.43
2:B:1382:ILE:HD11	2:B:1504:VAL:HG23	2.00	0.43
2:B:1457:ASN:O	2:B:1459:VAL:HG13	2.16	0.43
1:D:544:ILE:HG23	1:D:545:LEU:H	1.83	0.43
2:E:302:ARG:HD3	2:E:322:PHE:CD1	2.47	0.43
2:E:305:HIS:HA	2:E:315:THR:O	2.18	0.43
2:E:340:GLU:HG2	2:E:420:LEU:HD11	2.00	0.43
2:E:795:PHE:HE1	2:E:840:PHE:CD1	2.36	0.43
2:E:821:PRO:HA	2:E:824:ILE:HG12	2.00	0.43
2:E:857:LEU:CB	2:E:905:LEU:HD21	2.47	0.43
2:E:908:ASN:O	2:E:912:VAL:HG22	2.18	0.43
2:E:922:ALA:HA	2:E:925:ILE:HD12	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:926:GLN:HG2	2:E:971:HIS:ND1	2.34	0.43
2:E:979:ARG:HA	2:E:982:ILE:HG22	2.00	0.43
2:E:1258:THR:HG22	2:E:1262:TYR:HE2	1.80	0.43
2:E:1500:LYS:HB2	2:E:1501:TRP:CE3	2.53	0.43
2:E:1522:MET:HE3	2:E:1589:LEU:HB3	2.01	0.43
3:F:45:MET:HA	3:F:50:PRO:HA	2.00	0.43
2:B:19:TYR:CZ	2:B:60:PRO:HD3	2.53	0.43
2:B:23:GLN:HG2	2:B:58:ILE:HB	2.00	0.43
2:B:87:LEU:HB2	2:B:145:LYS:HE2	1.99	0.43
2:B:95:LEU:HA	2:B:98:TRP:HB2	2.00	0.43
2:B:182:ALA:HA	2:B:185:LYS:HZ3	1.83	0.43
2:B:643:TRP:HE1	2:B:675:ALA:HA	1.83	0.43
2:B:895:ASN:O	2:B:898:ASP:N	2.51	0.43
2:B:911:GLU:O	2:B:915:ARG:HG2	2.18	0.43
2:B:1062:GLU:O	2:B:1069:ARG:HD3	2.18	0.43
2:B:1596:GLN:O	2:B:1599:LEU:HB3	2.18	0.43
2:E:156:ASN:HD22	2:E:161:LEU:HB2	1.84	0.43
2:E:469:THR:HG22	2:E:495:GLU:HB3	1.99	0.43
2:E:499:VAL:HB	2:E:509:TRP:HD1	1.84	0.43
2:E:528:ARG:HG3	2:E:551:PHE:HB3	2.01	0.43
2:E:831:PHE:CD2	2:E:836:LEU:HB2	2.54	0.43
2:E:1042:LEU:HD12	2:E:1042:LEU:O	2.18	0.43
2:B:8:LYS:HA	2:B:10:GLN:HE22	1.84	0.43
2:B:1290:VAL:HG13	2:B:1291:TYR:N	2.34	0.43
2:B:1417:ASP:CG	2:B:1418:ILE:HG12	2.39	0.43
2:E:248:PRO:HB3	2:E:387:ILE:CG2	2.49	0.43
2:E:328:ASP:OD1	2:E:390:LYS:HE2	2.17	0.43
2:E:673:LEU:HD13	2:E:719:TYR:CD2	2.53	0.43
2:E:735:LYS:HG2	2:E:739:PHE:CE2	2.54	0.43
2:E:836:LEU:HG	2:E:840:PHE:CE2	2.53	0.43
2:E:889:GLN:CA	2:E:895:ASN:HD21	2.31	0.43
2:E:976:PHE:HB2	2:E:982:ILE:HD12	2.01	0.43
2:E:1048:HIS:HE1	2:E:1105:MET:HA	1.84	0.43
2:E:1227:VAL:HG22	2:E:1231:TYR:CE2	2.54	0.43
2:E:1290:VAL:HG13	2:E:1291:TYR:N	2.34	0.43
2:E:1545:HIS:O	2:E:1549:MET:HG2	2.18	0.43
2:E:1556:ASP:O	2:E:1558:ALA:N	2.51	0.43
3:F:21:ILE:HD11	3:F:35:THR:HG23	2.00	0.43
3:F:85:VAL:O	3:F:129:LEU:HD21	2.18	0.43
3:F:154:TYR:OH	3:F:156:GLU:OE2	2.31	0.43
2:B:167:ASP:OD1	2:B:168:ASP:N	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:214:SER:O	2:B:217:SER:OG	2.37	0.43
2:B:302:ARG:HG3	2:B:320:ARG:HB2	2.00	0.43
2:B:958:ILE:HB	2:B:1016:VAL:CG2	2.48	0.43
2:B:995:ASP:OD1	2:B:999:LYS:HE3	2.18	0.43
2:B:1061:LEU:HA	2:B:1064:PHE:CZ	2.53	0.43
2:B:1243:TYR:HD2	2:B:1246:LYS:HG3	1.83	0.43
2:B:1337:GLY:HA2	2:B:1340:ASN:ND2	2.33	0.43
2:B:1500:LYS:HB2	2:B:1501:TRP:CE3	2.53	0.43
1:D:575:TRP:CZ3	1:D:588:TYR:HB2	2.54	0.43
1:D:693:GLU:OE1	1:D:696:LEU:HD11	2.19	0.43
2:E:53:LYS:HG3	2:E:53:LYS:O	2.19	0.43
2:E:123:SER:O	2:E:126:GLU:HG3	2.19	0.43
2:E:1061:LEU:HA	2:E:1064:PHE:CZ	2.53	0.43
2:E:1206:ASP:O	2:E:1210:ILE:HG12	2.19	0.43
2:E:1313:MET:SD	2:E:1453:TYR:OH	2.71	0.43
1:A:579:LEU:HA	1:A:586:LEU:HD13	2.01	0.43
2:B:528:ARG:HG3	2:B:551:PHE:HB3	2.00	0.43
2:B:764:PHE:HD1	2:B:823:ILE:HB	1.83	0.43
2:B:976:PHE:HB2	2:B:982:ILE:HD12	2.00	0.43
2:B:1059:LEU:HD21	2:B:1117:GLU:OE2	2.19	0.43
2:B:1177:LEU:O	2:B:1181:ARG:HD2	2.18	0.43
2:B:1239:ILE:HG23	2:B:1242:ARG:HH21	1.83	0.43
2:B:1275:ASP:OD2	2:B:1275:ASP:N	2.45	0.43
1:D:615:ALA:H	1:D:645:LEU:HB2	1.84	0.43
2:E:88:VAL:HB	2:E:128:ARG:HH22	1.84	0.43
2:E:91:LEU:HD12	2:E:91:LEU:HA	1.81	0.43
2:E:804:ARG:HD2	2:E:808:GLU:OE2	2.19	0.43
2:E:820:LEU:HB3	2:E:821:PRO:HD3	2.00	0.43
2:E:934:ARG:HH12	2:E:938:ARG:HB2	1.83	0.43
2:E:1155:LEU:O	2:E:1159:VAL:HG23	2.17	0.43
2:E:1283:LEU:HB3	2:E:1288:TYR:HE1	1.82	0.43
2:E:1495:PHE:HE1	2:E:1502:PHE:CD2	2.31	0.43
2:E:1617:PRO:HB2	2:E:1621:ARG:HH22	1.84	0.43
1:A:564:LYS:NZ	1:A:590:ASP:OD1	2.40	0.43
1:A:652:LEU:HD13	1:A:654:PHE:CZ	2.54	0.43
2:B:118:GLN:HB3	2:B:122:TYR:OH	2.19	0.43
2:B:380:THR:HG21	2:B:510:TYR:CD2	2.54	0.43
2:B:673:LEU:HD13	2:B:719:TYR:CD2	2.53	0.43
2:B:718:THR:HG23	2:B:722:LYS:NZ	2.34	0.43
2:B:795:PHE:HE1	2:B:840:PHE:CD1	2.36	0.43
2:B:1111:GLU:O	2:B:1114:LEU:HB2	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1199:SER:O	2:B:1202:GLU:HG2	2.18	0.43
1:D:543:GLU:OE1	1:D:543:GLU:N	2.49	0.43
1:D:640:LEU:O	1:D:655:ILE:HA	2.19	0.43
2:E:305:HIS:CD2	2:E:314:HIS:HB2	2.53	0.43
2:E:500:VAL:HG11	2:E:534:ARG:HB2	2.00	0.43
2:E:710:GLN:HA	2:E:713:ASN:OD1	2.19	0.43
2:E:1224:THR:HA	2:E:1227:VAL:HG12	1.99	0.43
2:E:1309:ASP:O	2:E:1312:LYS:HE2	2.19	0.43
2:E:1406:GLU:OE1	2:E:1423:LYS:NZ	2.52	0.43
2:E:1417:ASP:CG	2:E:1418:ILE:HG12	2.39	0.43
1:A:615:ALA:H	1:A:645:LEU:HB2	1.84	0.43
1:A:640:LEU:O	1:A:655:ILE:HA	2.19	0.43
2:B:162:ASP:OD2	2:B:1071:LYS:NZ	2.50	0.43
2:B:468:VAL:HG21	2:B:620:PHE:CE1	2.53	0.43
2:B:470:MET:HA	2:B:529:PHE:HA	2.01	0.43
2:B:582:ALA:HA	2:B:585:TYR:CE2	2.54	0.43
2:B:773:LEU:HA	2:B:776:ARG:CZ	2.49	0.43
2:B:795:PHE:CZ	2:B:836:LEU:HD12	2.53	0.43
2:B:804:ARG:HD2	2:B:808:GLU:OE2	2.18	0.43
2:B:1115:THR:O	2:B:1121:ARG:NH2	2.52	0.43
2:B:1324:LEU:HD23	2:B:1341:LEU:HD13	2.01	0.43
2:B:1361:GLU:OE2	2:B:1388:TYR:HA	2.18	0.43
2:B:1406:GLU:OE1	2:B:1423:LYS:NZ	2.52	0.43
2:B:1556:ASP:O	2:B:1558:ALA:N	2.51	0.43
3:C:45:MET:HA	3:C:50:PRO:HA	2.00	0.43
1:D:704:ILE:HD11	2:E:65:HIS:CD2	2.54	0.43
2:E:166:ARG:CD	2:E:173:LEU:HB2	2.47	0.43
2:E:287:MET:HA	2:E:290:ILE:HG12	2.01	0.43
2:E:326:VAL:H	2:E:386:VAL:HG11	1.84	0.43
2:E:480:LEU:HD23	2:E:483:ALA:HB2	1.99	0.43
2:E:519:ILE:HG23	2:E:631:LEU:HG	2.01	0.43
2:E:636:ASP:HB2	2:E:660:VAL:HG22	2.01	0.43
2:E:868:LEU:HD12	2:E:868:LEU:HA	1.78	0.43
2:E:868:LEU:O	2:E:918:VAL:HG13	2.18	0.43
2:E:1223:CYS:HA	2:E:1226:ASN:ND2	2.34	0.43
2:E:1568:LYS:O	2:E:1572:THR:OG1	2.37	0.43
3:F:9:VAL:HB	3:F:97:TRP:CE3	2.54	0.43
2:B:435:GLU:HA	2:B:708:LYS:HZ2	1.81	0.42
2:B:463:PRO:HD2	2:B:503:GLN:HB3	2.01	0.42
2:B:1386:LYS:HG3	2:B:1387:GLU:H	1.84	0.42
2:B:1617:PRO:HB2	2:B:1621:ARG:HH22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:633:GLN:HB3	1:D:637:VAL:HG21	2.01	0.42
1:D:652:LEU:HD13	1:D:654:PHE:CZ	2.54	0.42
2:E:468:VAL:HG22	2:E:531:PHE:CD1	2.54	0.42
2:E:473:HIS:HD2	2:E:528:ARG:HB3	1.84	0.42
2:E:773:LEU:HA	2:E:776:ARG:CZ	2.49	0.42
2:E:995:ASP:OD1	2:E:999:LYS:HE3	2.18	0.42
2:E:1248:ARG:HD2	2:E:1249:ASP:N	2.34	0.42
2:E:1318:ILE:O	2:E:1322:LYS:HG2	2.19	0.42
2:E:1367:TYR:CZ	2:E:1402:PHE:HE2	2.36	0.42
2:E:1596:GLN:O	2:E:1599:LEU:HB3	2.18	0.42
2:E:1631:GLU:O	2:E:1635:LYS:HG2	2.19	0.42
3:F:20:LEU:O	3:F:24:THR:HG23	2.19	0.42
3:F:82:PHE:HB3	3:F:93:VAL:HG21	2.01	0.42
2:B:11:LYS:NZ	2:B:36:HIS:HB2	2.34	0.42
2:B:53:LYS:HG3	2:B:53:LYS:O	2.19	0.42
2:B:153:ASP:HA	2:B:156:ASN:OD1	2.19	0.42
2:B:248:PRO:HB3	2:B:387:ILE:HG21	2.01	0.42
2:B:857:LEU:CB	2:B:905:LEU:HD21	2.47	0.42
2:B:889:GLN:CA	2:B:895:ASN:HD21	2.31	0.42
2:B:930:GLU:HG2	2:B:972:TYR:CG	2.54	0.42
2:B:1048:HIS:CE1	2:B:1108:PRO:HG2	2.54	0.42
2:B:1206:ASP:O	2:B:1210:ILE:HG12	2.19	0.42
2:B:1318:ILE:O	2:B:1322:LYS:HG2	2.19	0.42
2:B:1357:ARG:NE	2:B:1452:ASN:O	2.53	0.42
2:B:1367:TYR:CZ	2:B:1402:PHE:HE2	2.36	0.42
2:B:1372:PHE:N	2:B:1424:GLN:HG2	2.35	0.42
3:C:8:VAL:HG11	3:C:20:LEU:HD11	2.02	0.42
3:C:44:VAL:HG12	3:C:45:MET:O	2.18	0.42
1:D:696:LEU:HD12	1:D:697:ARG:HE	1.83	0.42
2:E:718:THR:HG23	2:E:722:LYS:NZ	2.34	0.42
2:E:931:ARG:C	2:E:932:LEU:HD12	2.38	0.42
2:E:1263:THR:HA	2:E:1266:LEU:HD12	2.00	0.42
2:E:1386:LYS:HG3	2:E:1387:GLU:H	1.84	0.42
1:A:693:GLU:OE1	1:A:696:LEU:HD11	2.19	0.42
1:A:714:PRO:HD3	2:B:62:THR:HG21	2.00	0.42
2:B:104:LYS:HD3	2:B:107:VAL:HB	2.00	0.42
2:B:156:ASN:HD22	2:B:161:LEU:HB2	1.84	0.42
2:B:166:ARG:HG2	2:B:173:LEU:HB2	2.01	0.42
2:B:166:ARG:NE	2:B:169:ASN:OD1	2.52	0.42
2:B:248:PRO:HB3	2:B:387:ILE:CG2	2.49	0.42
2:B:468:VAL:HG22	2:B:531:PHE:CD1	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:792:ARG:HG2	2:B:839:LEU:HD11	2.01	0.42
3:C:82:PHE:HB3	3:C:93:VAL:HG21	2.01	0.42
1:D:693:GLU:OE2	1:D:697:ARG:HD2	2.19	0.42
2:E:153:ASP:HA	2:E:156:ASN:OD1	2.19	0.42
2:E:306:MET:HE1	2:E:465:ASN:HB3	2.01	0.42
2:E:438:LEU:N	2:E:441:ASP:OD2	2.52	0.42
2:E:455:PHE:CD2	2:E:466:VAL:HG21	2.54	0.42
2:E:820:LEU:O	2:E:824:ILE:HG23	2.18	0.42
2:E:1243:TYR:HD2	2:E:1246:LYS:HG3	1.83	0.42
2:E:1625:CYS:O	2:E:1628:GLU:HB3	2.19	0.42
1:A:693:GLU:OE2	1:A:697:ARG:HD2	2.19	0.42
2:B:123:SER:O	2:B:126:GLU:HG3	2.19	0.42
2:B:156:ASN:HA	2:B:161:LEU:HD12	2.01	0.42
2:B:273:LYS:O	2:B:277:LEU:N	2.53	0.42
2:B:1227:VAL:HG22	2:B:1231:TYR:CE2	2.53	0.42
2:B:1367:TYR:CE2	2:B:1402:PHE:CE2	3.06	0.42
2:B:1583:GLN:O	2:B:1586:VAL:HG12	2.18	0.42
3:C:14:VAL:HG13	3:C:116:LYS:HZ3	1.83	0.42
3:C:20:LEU:O	3:C:24:THR:HG23	2.19	0.42
2:E:632:THR:HA	2:E:664:GLU:OE1	2.20	0.42
2:E:882:LEU:HD13	2:E:882:LEU:HA	1.87	0.42
2:E:895:ASN:O	2:E:898:ASP:N	2.51	0.42
2:E:1239:ILE:HG23	2:E:1242:ARG:HH21	1.83	0.42
3:F:11:ASP:OD1	3:F:11:ASP:N	2.49	0.42
2:B:25:VAL:HG12	2:B:55:LYS:HE3	2.01	0.42
2:B:326:VAL:H	2:B:386:VAL:HG11	1.84	0.42
2:B:656:LYS:HG3	2:B:659:GLU:OE2	2.20	0.42
2:B:735:LYS:HG2	2:B:739:PHE:CE2	2.54	0.42
2:B:769:GLN:HA	2:B:772:VAL:HG12	2.02	0.42
2:B:831:PHE:CD2	2:B:836:LEU:HB2	2.54	0.42
2:B:1022:ASN:O	2:B:1026:GLU:OE1	2.37	0.42
2:B:1308:PHE:O	2:B:1312:LYS:N	2.53	0.42
2:B:1363:PHE:HE1	2:B:1430:THR:HG1	1.67	0.42
2:B:1417:ASP:OD1	2:B:1417:ASP:N	2.51	0.42
2:B:1568:LYS:O	2:B:1572:THR:OG1	2.37	0.42
3:C:9:VAL:HB	3:C:97:TRP:CE3	2.54	0.42
1:D:657:PRO:HB2	1:D:661:GLU:OE2	2.20	0.42
2:E:25:VAL:HG12	2:E:55:LYS:HE3	2.01	0.42
2:E:158:MET:C	2:E:159:LEU:HD22	2.39	0.42
2:E:166:ARG:NE	2:E:169:ASN:OD1	2.52	0.42
2:E:197:LYS:O	2:E:200:GLU:N	2.45	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:278:GLN:O	2:E:426:ALA:N	2.49	0.42
2:E:582:ALA:HA	2:E:585:TYR:CE2	2.54	0.42
2:E:643:TRP:HE1	2:E:675:ALA:HA	1.83	0.42
2:E:1116:PRO:HA	2:E:1121:ARG:NH2	2.35	0.42
2:B:15:ALA:HA	2:B:59:PHE:CZ	2.54	0.42
2:B:632:THR:HA	2:B:664:GLU:OE1	2.20	0.42
2:B:1027:VAL:HG22	2:B:1032:PHE:HE1	1.82	0.42
2:B:1245:TYR:O	2:B:1248:ARG:HG3	2.20	0.42
2:B:1318:ILE:HD13	2:B:1349:TYR:CE2	2.55	0.42
3:C:17:THR:O	3:C:21:ILE:HG22	2.19	0.42
2:E:1:MET:HG3	2:E:4:TRP:HE1	1.84	0.42
2:E:118:GLN:HB3	2:E:122:TYR:OH	2.19	0.42
2:E:930:GLU:HG2	2:E:972:TYR:CG	2.53	0.42
2:E:1059:LEU:HD21	2:E:1117:GLU:OE2	2.19	0.42
2:E:1367:TYR:CE2	2:E:1402:PHE:CE2	3.06	0.42
3:F:44:VAL:HG12	3:F:45:MET:O	2.18	0.42
1:A:588:TYR:CE2	1:A:608:LEU:HB2	2.54	0.42
2:B:4:TRP:CE3	2:B:39:GLU:HB2	2.55	0.42
2:B:287:MET:HA	2:B:290:ILE:HG12	2.01	0.42
2:B:455:PHE:CD2	2:B:466:VAL:HG21	2.55	0.42
2:B:464:LYS:HD3	2:B:533:HIS:CD2	2.55	0.42
2:B:570:VAL:HG22	2:B:592:LYS:HD2	2.02	0.42
2:B:632:THR:HG21	2:B:637:LEU:HD23	2.02	0.42
2:B:926:GLN:HG2	2:B:971:HIS:ND1	2.34	0.42
2:B:1098:LYS:O	2:B:1102:ILE:N	2.50	0.42
2:B:1110:LEU:HA	2:B:1128:PHE:HZ	1.85	0.42
2:B:1243:TYR:HA	2:B:1246:LYS:CG	2.50	0.42
2:E:166:ARG:HG2	2:E:173:LEU:HB2	2.01	0.42
2:E:246:TYR:CE1	2:E:383:LEU:HD21	2.55	0.42
2:E:380:THR:HG21	2:E:510:TYR:CD2	2.54	0.42
2:E:545:ARG:HH11	2:E:576:ASN:HD21	1.66	0.42
2:E:1357:ARG:NE	2:E:1452:ASN:O	2.52	0.42
2:E:1401:GLN:HG3	2:E:1402:PHE:CD2	2.55	0.42
2:E:1598:PRO:O	2:E:1602:GLU:OE1	2.38	0.42
1:A:564:LYS:NZ	1:A:590:ASP:HA	2.35	0.42
2:B:158:MET:C	2:B:159:LEU:HD22	2.39	0.42
2:B:219:ILE:HG13	2:B:222:TYR:OH	2.20	0.42
2:B:340:GLU:HG2	2:B:420:LEU:HD11	2.00	0.42
2:B:636:ASP:HB2	2:B:660:VAL:HG22	2.01	0.42
2:B:879:LEU:HG	2:B:879:LEU:O	2.20	0.42
2:B:940:VAL:HA	2:B:943:MET:HE2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1059:LEU:HA	2:B:1059:LEU:HD23	1.77	0.42
2:B:1116:PRO:HA	2:B:1121:ARG:NH2	2.35	0.42
2:B:1155:LEU:HD21	2:B:1197:VAL:HG13	2.02	0.42
2:B:1248:ARG:HD2	2:B:1249:ASP:N	2.34	0.42
2:B:1309:ASP:O	2:B:1312:LYS:HE2	2.19	0.42
2:B:1313:MET:SD	2:B:1453:TYR:OH	2.71	0.42
2:B:1392:GLU:OE2	3:C:166:LYS:HE2	2.19	0.42
2:B:1409:THR:HA	3:C:28:PHE:CZ	2.52	0.42
3:C:39:ASN:CA	3:C:57:ASP:H	2.27	0.42
1:D:551:GLN:O	1:D:555:ARG:HG2	2.20	0.42
2:E:214:SER:O	2:E:217:SER:OG	2.37	0.42
2:E:570:VAL:HG22	2:E:592:LYS:HD2	2.02	0.42
2:E:769:GLN:HA	2:E:772:VAL:HG12	2.02	0.42
2:E:909:ILE:O	2:E:913:LEU:HD12	2.20	0.42
2:E:926:GLN:NE2	2:E:930:GLU:OE2	2.48	0.42
2:E:1242:ARG:O	2:E:1246:LYS:HG2	2.20	0.42
2:E:1256:ASN:O	2:E:1260:ALA:N	2.29	0.42
2:E:1338:LEU:O	2:E:1342:LEU:HD23	2.20	0.42
3:F:129:LEU:O	3:F:134:LEU:N	2.29	0.42
1:A:532:PRO:HG2	1:A:706:ILE:O	2.20	0.42
1:A:633:GLN:HB3	1:A:637:VAL:HG21	2.01	0.42
1:A:657:PRO:HB2	1:A:661:GLU:OE2	2.20	0.42
1:A:695:LYS:NZ	2:B:122:TYR:CE1	2.88	0.42
2:B:95:LEU:CA	2:B:98:TRP:HD1	2.31	0.42
2:B:1022:ASN:OD1	2:B:1086:ARG:NH1	2.53	0.42
2:B:1028:LEU:HA	2:B:1032:PHE:CD1	2.43	0.42
2:B:1090:MET:O	2:B:1094:LEU:HD23	2.20	0.42
2:B:1362:TYR:HE2	2:B:1459:VAL:HG21	1.85	0.42
2:B:1506:GLN:NE2	2:B:1508:SER:OG	2.48	0.42
1:D:564:LYS:HZ1	1:D:590:ASP:HA	1.84	0.42
1:D:701:LEU:HD21	2:E:15:ALA:C	2.40	0.42
2:E:15:ALA:HA	2:E:59:PHE:CZ	2.54	0.42
2:E:156:ASN:HA	2:E:161:LEU:HD12	2.01	0.42
2:E:464:LYS:HD3	2:E:533:HIS:CD2	2.55	0.42
2:E:839:LEU:HG	2:E:842:LYS:HZ1	1.83	0.42
2:E:1115:THR:O	2:E:1121:ARG:NH2	2.52	0.42
2:E:1372:PHE:N	2:E:1424:GLN:HG2	2.34	0.42
3:F:53:LEU:HD13	3:F:169:PHE:CZ	2.55	0.42
1:A:541:GLN:O	1:A:543:GLU:N	2.53	0.42
1:A:575:TRP:CZ3	1:A:588:TYR:HB2	2.54	0.42
1:A:585:VAL:HG12	1:A:607:LYS:NZ	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:246:TYR:CE1	2:B:383:LEU:HD21	2.54	0.42
2:B:344:HIS:N	2:B:401:VAL:O	2.53	0.42
2:B:519:ILE:HG23	2:B:631:LEU:HG	2.01	0.42
2:B:545:ARG:HH11	2:B:576:ASN:HD21	1.67	0.42
2:B:768:ILE:HG13	2:B:826:ASP:O	2.20	0.42
2:B:933:LEU:HA	2:B:936:ILE:HG22	2.02	0.42
2:B:1392:GLU:OE1	2:B:1392:GLU:N	2.51	0.42
2:B:1418:ILE:HD13	2:B:1421:SER:HB3	2.01	0.42
3:C:53:LEU:HD13	3:C:169:PHE:CZ	2.55	0.42
1:D:532:PRO:HG2	1:D:706:ILE:O	2.20	0.42
1:D:585:VAL:HG12	1:D:607:LYS:NZ	2.34	0.42
2:E:4:TRP:CE3	2:E:39:GLU:HB2	2.55	0.42
2:E:44:TRP:HE3	2:E:58:ILE:HG22	1.85	0.42
2:E:127:TRP:O	2:E:131:ILE:HG12	2.20	0.42
2:E:273:LYS:O	2:E:277:LEU:N	2.53	0.42
2:E:656:LYS:HG3	2:E:659:GLU:OE2	2.20	0.42
2:E:854:ARG:HH11	2:E:858:ASN:HD21	1.68	0.42
2:E:1048:HIS:CE1	2:E:1108:PRO:HG2	2.55	0.42
2:E:1111:GLU:O	2:E:1114:LEU:HB2	2.19	0.42
2:E:1129:PHE:CZ	2:E:1183:HIS:HB2	2.55	0.42
2:E:1183:HIS:CG	2:E:1184:LYS:N	2.87	0.42
2:E:1245:TYR:O	2:E:1248:ARG:HG3	2.20	0.42
2:E:1441:TYR:HD2	2:E:1450:ILE:HG21	1.82	0.42
2:E:1444:LYS:HD3	2:E:1446:VAL:HG12	2.02	0.42
3:F:17:THR:O	3:F:21:ILE:HG22	2.20	0.42
3:F:58:THR:HB	3:F:68:ARG:NH1	2.35	0.42
3:F:124:ASP:O	3:F:127:GLU:HG2	2.20	0.42
1:A:620:LYS:HE2	1:A:638:LEU:HD11	2.02	0.41
2:B:38:LEU:HD21	2:B:48:TYR:CD2	2.55	0.41
2:B:306:MET:HE1	2:B:465:ASN:HB3	2.01	0.41
2:B:473:HIS:HD2	2:B:528:ARG:HB3	1.84	0.41
2:B:778:TYR:O	2:B:780:GLN:N	2.53	0.41
2:B:1171:LEU:O	2:B:1175:LEU:HD23	2.20	0.41
2:B:1205:LEU:HD22	2:B:1208:ARG:NH2	2.35	0.41
2:B:1431:VAL:HG12	2:B:1464:TYR:HB2	2.02	0.41
1:D:588:TYR:CE2	1:D:608:LEU:HB2	2.54	0.41
2:E:38:LEU:HD21	2:E:48:TYR:CD2	2.55	0.41
2:E:105:LEU:HB3	2:E:114:PHE:HB2	2.02	0.41
2:E:1259:GLU:O	2:E:1263:THR:HG23	2.20	0.41
2:E:1308:PHE:O	2:E:1312:LYS:N	2.53	0.41
2:E:1360:PRO:HA	2:E:1387:GLU:HA	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:666:THR:HG23	1:A:678:MET:SD	2.60	0.41
2:B:147:LYS:O	2:B:151:LYS:HD3	2.21	0.41
2:B:157:ARG:NH2	2:B:198:ILE:HG12	2.35	0.41
2:B:875:ARG:NH1	2:B:920:ALA:O	2.52	0.41
2:B:1091:TRP:CD1	2:B:1127:ILE:HG23	2.55	0.41
2:B:1155:LEU:HA	2:B:1158:GLU:OE2	2.20	0.41
2:B:1323:GLU:O	2:B:1327:THR:HG23	2.21	0.41
2:B:1367:TYR:C	2:B:1368:TYR:HD1	2.24	0.41
2:B:1380:ILE:HB	2:B:1504:VAL:HG12	2.03	0.41
2:B:1401:GLN:HG3	2:B:1402:PHE:CD2	2.55	0.41
1:D:579:LEU:HA	1:D:586:LEU:HD13	2.01	0.41
2:E:8:LYS:HA	2:E:10:GLN:HE22	1.84	0.41
2:E:441:ASP:O	2:E:629:THR:OG1	2.26	0.41
2:E:470:MET:HA	2:E:529:PHE:HA	2.01	0.41
2:E:768:ILE:HG13	2:E:826:ASP:O	2.20	0.41
2:E:792:ARG:HG2	2:E:839:LEU:HD11	2.01	0.41
2:E:818:LYS:O	2:E:821:PRO:HD2	2.20	0.41
2:E:993:PHE:O	2:E:997:ILE:HG12	2.20	0.41
2:E:1109:ILE:HG12	2:E:1128:PHE:CE1	2.56	0.41
2:E:1155:LEU:HD21	2:E:1197:VAL:HG13	2.01	0.41
2:E:1171:LEU:O	2:E:1175:LEU:HD23	2.20	0.41
2:E:1238:ASP:OD1	2:E:1239:ILE:HG12	2.20	0.41
2:E:1418:ILE:HD13	2:E:1421:SER:HB3	2.01	0.41
2:E:1463:ARG:NH2	2:E:1465:SER:HA	2.35	0.41
1:A:551:GLN:O	1:A:555:ARG:HG2	2.20	0.41
1:A:652:LEU:HD23	1:A:652:LEU:HA	1.74	0.41
1:A:658:ASP:OD1	1:A:661:GLU:HG2	2.21	0.41
2:B:80:VAL:HG23	2:B:81:ILE:HG22	2.03	0.41
2:B:874:CYS:O	2:B:878:LEU:HG	2.20	0.41
2:B:926:GLN:NE2	2:B:930:GLU:OE2	2.48	0.41
2:B:993:PHE:O	2:B:997:ILE:HG12	2.20	0.41
2:B:1322:LYS:HE3	2:B:1345:ARG:HD3	2.02	0.41
2:B:1598:PRO:O	2:B:1602:GLU:OE1	2.38	0.41
3:C:21:ILE:HA	3:C:24:THR:OG1	2.20	0.41
1:D:579:LEU:HD12	1:D:580:SER:H	1.84	0.41
2:E:435:GLU:HA	2:E:708:LYS:HZ2	1.83	0.41
2:E:768:ILE:HD11	2:E:827:VAL:HG22	2.02	0.41
2:E:853:VAL:HG23	2:E:854:ARG:H	1.85	0.41
2:E:1269:GLU:OE1	2:E:1270:LEU:HD22	2.21	0.41
2:E:1363:PHE:HE1	2:E:1430:THR:HG1	1.64	0.41
2:E:1506:GLN:NE2	2:E:1508:SER:OG	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:19:TYR:CG	2:B:59:PHE:CE1	3.05	0.41
2:B:44:TRP:HE3	2:B:58:ILE:HG22	1.85	0.41
2:B:228:PHE:CZ	2:B:231:PHE:HB2	2.55	0.41
2:B:818:LYS:O	2:B:821:PRO:HD2	2.20	0.41
2:B:959:ALA:HB1	2:B:963:GLN:NE2	2.35	0.41
2:B:1019:ARG:O	2:B:1023:GLN:HG2	2.21	0.41
2:B:1223:CYS:HA	2:B:1226:ASN:ND2	2.34	0.41
2:B:1238:ASP:OD1	2:B:1239:ILE:HG12	2.20	0.41
2:B:1290:VAL:HG13	2:B:1291:TYR:H	1.85	0.41
2:B:1318:ILE:HD13	2:B:1349:TYR:CZ	2.55	0.41
2:B:1333:PHE:CZ	2:E:1444:LYS:HD3	2.47	0.41
2:B:1338:LEU:O	2:B:1342:LEU:HD23	2.20	0.41
1:D:548:ILE:CG2	1:D:682:THR:HG23	2.50	0.41
1:D:564:LYS:NZ	1:D:590:ASP:HA	2.35	0.41
2:E:11:LYS:NZ	2:E:36:HIS:HB2	2.34	0.41
2:E:45:TYR:HB2	2:E:64:ILE:HG13	2.02	0.41
2:E:191:SER:O	2:E:194:ILE:HB	2.20	0.41
2:E:526:HIS:NE2	2:E:586:LEU:HD11	2.36	0.41
2:E:856:LYS:HZ3	2:E:885:GLN:HB2	1.85	0.41
2:E:874:CYS:O	2:E:878:LEU:HG	2.20	0.41
2:E:875:ARG:NH1	2:E:920:ALA:O	2.52	0.41
2:E:1228:LEU:HD23	2:E:1228:LEU:HA	1.90	0.41
2:E:1322:LYS:HE3	2:E:1345:ARG:HD3	2.02	0.41
2:E:1392:GLU:OE1	2:E:1392:GLU:N	2.51	0.41
3:F:8:VAL:HG11	3:F:20:LEU:HD11	2.02	0.41
1:A:646:TYR:CE1	1:A:652:LEU:HG	2.56	0.41
2:B:221:THR:HG23	2:B:283:ASP:HA	2.02	0.41
2:B:471:SER:N	2:B:528:ARG:O	2.35	0.41
2:B:710:GLN:HA	2:B:713:ASN:OD1	2.19	0.41
2:B:937:ASN:O	2:B:941:ILE:HG13	2.21	0.41
2:B:1369:GLY:CA	2:B:1418:ILE:HG22	2.51	0.41
2:B:1461:GLN:HA	2:B:1489:TYR:O	2.21	0.41
2:B:1625:CYS:O	2:B:1628:GLU:HB3	2.19	0.41
1:D:541:GLN:O	1:D:543:GLU:N	2.53	0.41
1:D:667:ASP:HB3	1:D:677:MET:SD	2.60	0.41
2:E:65:HIS:ND1	2:E:65:HIS:O	2.53	0.41
2:E:219:ILE:HG13	2:E:222:TYR:OH	2.20	0.41
2:E:463:PRO:HD2	2:E:503:GLN:HB3	2.02	0.41
2:E:910:LEU:HD22	2:E:963:GLN:OE1	2.20	0.41
2:E:959:ALA:HB1	2:E:963:GLN:NE2	2.35	0.41
2:E:1044:ASN:HA	2:E:1101:PHE:CZ	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1081:LYS:O	2:E:1085:PHE:HD1	2.04	0.41
2:E:1155:LEU:HA	2:E:1158:GLU:OE2	2.20	0.41
2:E:1531:ASN:O	2:E:1535:GLN:HG3	2.20	0.41
1:A:599:VAL:HA	1:A:600:PRO:HD3	1.86	0.41
1:A:614:LYS:H	1:A:614:LYS:HD2	1.85	0.41
1:A:640:LEU:HD13	1:A:656:ALA:O	2.21	0.41
2:B:570:VAL:HA	2:B:592:LYS:NZ	2.36	0.41
2:B:1048:HIS:HE1	2:B:1105:MET:HA	1.84	0.41
2:B:1063:THR:HA	2:B:1069:ARG:CD	2.51	0.41
2:B:1233:GLU:C	2:B:1234:LYS:HE2	2.41	0.41
2:B:1259:GLU:O	2:B:1263:THR:HG23	2.20	0.41
2:B:1436:SER:OG	2:B:1437:LEU:N	2.54	0.41
2:B:1449:GLN:OE1	2:B:1449:GLN:N	2.54	0.41
2:B:1463:ARG:NH2	2:B:1465:SER:HA	2.35	0.41
2:B:1489:TYR:HB3	2:B:1504:VAL:HG23	2.02	0.41
2:B:1522:MET:HE3	2:B:1589:LEU:HB3	2.02	0.41
2:E:764:PHE:HA	2:E:767:ILE:HB	2.03	0.41
2:E:933:LEU:HA	2:E:936:ILE:HG22	2.02	0.41
2:E:937:ASN:O	2:E:941:ILE:HG13	2.21	0.41
2:E:1034:ASP:OD1	2:E:1097:HIS:CD2	2.74	0.41
2:E:1090:MET:O	2:E:1094:LEU:HD23	2.20	0.41
2:E:1099:ILE:HD11	2:E:1134:CYS:O	2.21	0.41
2:E:1231:TYR:HB3	2:E:1240:TYR:HB2	2.03	0.41
2:E:1483:TRP:CE2	2:E:1513:SER:HA	2.55	0.41
2:E:1601:THR:HG1	2:E:1626:PHE:HZ	1.69	0.41
3:F:21:ILE:HA	3:F:24:THR:OG1	2.20	0.41
2:B:25:VAL:HB	2:B:56:LYS:O	2.20	0.41
2:B:836:LEU:HG	2:B:840:PHE:CE2	2.53	0.41
2:B:1129:PHE:CZ	2:B:1183:HIS:HB2	2.55	0.41
2:B:1154:LYS:O	2:B:1158:GLU:HG2	2.21	0.41
2:B:1279:VAL:HA	2:B:1280:PRO:HD3	1.93	0.41
2:B:1444:LYS:HD3	2:B:1446:VAL:HG12	2.02	0.41
2:B:1490:THR:N	2:B:1506:GLN:O	2.53	0.41
2:B:1631:GLU:O	2:B:1635:LYS:HG2	2.19	0.41
1:D:575:TRP:HE3	1:D:589:GLY:O	2.04	0.41
1:D:658:ASP:OD1	1:D:661:GLU:HG2	2.20	0.41
2:E:25:VAL:HB	2:E:56:LYS:O	2.20	0.41
2:E:38:LEU:H	2:E:47:GLY:HA3	1.86	0.41
2:E:166:ARG:HH12	2:E:168:ASP:H	1.67	0.41
2:E:1155:LEU:HA	2:E:1158:GLU:HG2	2.02	0.41
2:E:1205:LEU:HD22	2:E:1208:ARG:NH2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:1323:GLU:O	2:E:1327:THR:HG23	2.21	0.41
2:E:1362:TYR:HE2	2:E:1459:VAL:HG21	1.85	0.41
2:E:1490:THR:N	2:E:1506:GLN:O	2.53	0.41
2:E:1575:TYR:CE1	2:E:1579:HIS:CE1	3.09	0.41
2:E:1612:THR:H	2:E:1615:LEU:HB2	1.86	0.41
1:A:693:GLU:O	1:A:696:LEU:HG	2.21	0.41
2:B:1:MET:HG3	2:B:4:TRP:HE1	1.84	0.41
2:B:45:TYR:HB2	2:B:64:ILE:HG13	2.02	0.41
2:B:65:HIS:ND1	2:B:65:HIS:O	2.53	0.41
2:B:191:SER:O	2:B:194:ILE:HB	2.21	0.41
2:B:737:LEU:HD12	2:B:737:LEU:HA	1.77	0.41
2:B:764:PHE:HA	2:B:767:ILE:HB	2.03	0.41
2:B:768:ILE:HD11	2:B:827:VAL:HG22	2.02	0.41
2:B:854:ARG:HH11	2:B:858:ASN:HD21	1.68	0.41
2:B:909:ILE:O	2:B:913:LEU:HD12	2.20	0.41
2:B:1109:ILE:HG12	2:B:1128:PHE:CE1	2.56	0.41
2:B:1175:LEU:O	2:B:1179:HIS:CD2	2.74	0.41
2:B:1180:CYS:HB2	2:B:1191:GLU:HG3	2.03	0.41
2:B:1408:MET:HB3	2:B:1410:SER:H	1.85	0.41
3:C:94:ARG:HH12	3:C:112:LEU:HD21	1.86	0.41
2:E:46:ARG:CB	2:E:58:ILE:HG13	2.46	0.41
2:E:89:GLN:O	2:E:92:THR:OG1	2.31	0.41
2:E:167:ASP:OD1	2:E:168:ASP:N	2.52	0.41
2:E:219:ILE:O	2:E:222:TYR:OH	2.21	0.41
2:E:332:ILE:HG12	2:E:337:VAL:HB	2.02	0.41
2:E:344:HIS:N	2:E:401:VAL:O	2.53	0.41
2:E:470:MET:HG2	2:E:496:TYR:HB3	2.03	0.41
2:E:473:HIS:HD1	2:E:478:LYS:C	2.24	0.41
2:E:972:TYR:HA	2:E:975:THR:HB	2.03	0.41
2:E:1091:TRP:CD1	2:E:1127:ILE:HG23	2.55	0.41
2:E:1109:ILE:O	2:E:1112:VAL:HG22	2.21	0.41
3:F:66:ARG:HD3	3:F:66:ARG:H	1.86	0.41
1:A:575:TRP:HE3	1:A:589:GLY:O	2.04	0.41
2:B:127:TRP:O	2:B:131:ILE:HG12	2.20	0.41
2:B:162:ASP:OD1	2:B:162:ASP:N	2.54	0.41
2:B:169:ASN:OD1	2:B:173:LEU:HD13	2.20	0.41
2:B:259:LEU:HD23	2:B:490:TYR:CG	2.56	0.41
2:B:406:LEU:HD12	2:B:413:VAL:HG13	2.03	0.41
2:B:436:ILE:HG23	2:B:711:HIS:NE2	2.36	0.41
2:B:483:ALA:O	2:B:515:VAL:HA	2.21	0.41
2:B:1018:LEU:O	2:B:1022:ASN:ND2	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:1034:ASP:OD1	2:B:1097:HIS:CD2	2.74	0.41
2:B:1081:LYS:O	2:B:1085:PHE:HD1	2.04	0.41
2:B:1201:LEU:HD23	2:B:1201:LEU:HA	1.92	0.41
2:B:1242:ARG:O	2:B:1246:LYS:HG2	2.20	0.41
2:B:1330:SER:O	2:B:1331:LYS:HD3	2.20	0.41
2:B:1483:TRP:CE2	2:B:1513:SER:HA	2.55	0.41
2:B:1532:CYS:HA	2:B:1535:GLN:HG3	2.03	0.41
3:C:28:PHE:CD2	3:C:29:PRO:HD2	2.56	0.41
3:C:58:THR:HB	3:C:68:ARG:NH1	2.35	0.41
3:C:82:PHE:HD1	3:C:112:LEU:HD11	1.86	0.41
3:C:120:ARG:NH2	3:C:139:TYR:H	2.19	0.41
3:C:124:ASP:O	3:C:127:GLU:HG2	2.20	0.41
1:D:580:SER:HB3	1:D:583:HIS:N	2.36	0.41
2:E:14:VAL:O	2:E:64:ILE:HA	2.21	0.41
2:E:189:VAL:HG13	2:E:193:ARG:CZ	2.50	0.41
2:E:221:THR:HG23	2:E:283:ASP:HA	2.02	0.41
2:E:228:PHE:CZ	2:E:231:PHE:HB2	2.55	0.41
2:E:234:ASN:O	2:E:322:PHE:HZ	2.04	0.41
2:E:248:PRO:HB3	2:E:387:ILE:HG21	2.01	0.41
2:E:259:LEU:HD23	2:E:490:TYR:CG	2.56	0.41
2:E:281:PHE:HE2	2:E:296:LEU:HD11	1.86	0.41
2:E:894:SER:O	2:E:897:PRO:HD2	2.21	0.41
2:E:928:ILE:CA	2:E:932:LEU:HD13	2.48	0.41
2:E:1002:TYR:HE1	2:E:1010:ASN:HA	1.85	0.41
2:E:1019:ARG:O	2:E:1023:GLN:HG2	2.21	0.41
2:E:1132:MET:HE1	2:E:1187:SER:HA	2.02	0.41
2:E:1318:ILE:HD13	2:E:1349:TYR:CE2	2.54	0.41
2:E:1318:ILE:HD13	2:E:1349:TYR:CZ	2.55	0.41
2:E:1330:SER:O	2:E:1331:LYS:HD3	2.21	0.41
2:E:1408:MET:HB3	2:E:1410:SER:H	1.85	0.41
2:E:1411:THR:HB	3:F:28:PHE:CE2	2.55	0.41
2:E:1461:GLN:HA	2:E:1489:TYR:O	2.21	0.41
2:E:1482:MET:C	2:E:1517:ASN:HD22	2.24	0.41
2:E:1566:TYR:CE1	2:E:1570:PHE:HE2	2.39	0.41
1:A:556:LEU:HD11	1:A:668:GLY:C	2.41	0.41
1:A:667:ASP:HB3	1:A:677:MET:SD	2.60	0.41
2:B:105:LEU:HB3	2:B:114:PHE:HB2	2.02	0.41
2:B:853:VAL:HG23	2:B:854:ARG:H	1.85	0.41
2:B:1531:ASN:O	2:B:1535:GLN:HG3	2.20	0.41
1:D:584:LYS:NZ	2:E:1405:ALA:HB2	2.34	0.41
1:D:646:TYR:CE1	1:D:652:LEU:HG	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:147:LYS:O	2:E:151:LYS:HD3	2.21	0.41
2:E:169:ASN:OD1	2:E:173:LEU:HD13	2.20	0.41
2:E:728:LEU:HD23	2:E:730:TYR:CE2	2.56	0.41
2:E:785:ASP:N	2:E:785:ASP:OD1	2.53	0.41
2:E:1072:ILE:HA	2:E:1076:TYR:HD2	1.86	0.41
2:E:1238:ASP:HA	2:E:1241:ILE:HD12	2.03	0.41
2:E:1361:GLU:OE1	2:E:1389:GLU:N	2.54	0.41
2:E:1380:ILE:HB	2:E:1504:VAL:HG12	2.03	0.41
2:E:1449:GLN:OE1	2:E:1449:GLN:N	2.54	0.41
1:A:580:SER:HB3	1:A:583:HIS:N	2.36	0.40
2:B:38:LEU:H	2:B:47:GLY:HA3	1.86	0.40
2:B:328:ASP:OD1	2:B:328:ASP:N	2.54	0.40
2:B:332:ILE:HG12	2:B:337:VAL:HB	2.02	0.40
2:B:730:TYR:CG	2:B:731:VAL:N	2.90	0.40
2:B:922:ALA:O	2:B:925:ILE:HB	2.21	0.40
2:B:1002:TYR:HE1	2:B:1010:ASN:HA	1.85	0.40
2:B:1109:ILE:O	2:B:1112:VAL:HG22	2.21	0.40
2:B:1168:TYR:HA	2:B:1171:LEU:HD12	2.03	0.40
2:B:1217:LYS:HB3	2:B:1221:MET:HE1	2.03	0.40
2:B:1231:TYR:HB3	2:B:1240:TYR:HB2	2.03	0.40
2:B:1283:LEU:HB3	2:B:1288:TYR:CE1	2.56	0.40
2:B:1369:GLY:HA2	2:B:1418:ILE:HG22	2.02	0.40
1:D:679:SER:HB2	1:D:682:THR:OG1	2.21	0.40
2:E:95:LEU:HD11	2:E:124:LEU:HD11	2.04	0.40
2:E:95:LEU:CA	2:E:98:TRP:HD1	2.31	0.40
2:E:157:ARG:NH2	2:E:198:ILE:HG12	2.36	0.40
2:E:406:LEU:HD12	2:E:413:VAL:HG13	2.03	0.40
2:E:964:MET:HG2	2:E:969:TYR:CZ	2.55	0.40
2:E:1110:LEU:HA	2:E:1128:PHE:HZ	1.85	0.40
2:E:1168:TYR:HA	2:E:1171:LEU:HD12	2.03	0.40
2:E:1374:SER:O	2:E:1377:ARG:HG2	2.21	0.40
2:E:1463:ARG:NH1	2:E:1465:SER:OG	2.54	0.40
2:E:1632:LYS:HD2	2:E:1632:LYS:HA	1.80	0.40
3:F:120:ARG:NH2	3:F:139:TYR:H	2.19	0.40
1:A:714:PRO:CG	2:B:60:PRO:HB3	2.51	0.40
2:B:14:VAL:O	2:B:64:ILE:HA	2.21	0.40
2:B:680:MET:O	2:B:684:SER:HB3	2.21	0.40
2:B:772:VAL:O	2:B:776:ARG:HG3	2.21	0.40
2:B:894:SER:O	2:B:897:PRO:HD2	2.21	0.40
2:B:932:LEU:N	2:B:935:ARG:HE	2.19	0.40
2:B:1579:HIS:O	2:B:1583:GLN:HB2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:328:ASP:OD1	2:E:328:ASP:N	2.55	0.40
2:E:455:PHE:CE2	2:E:466:VAL:HG11	2.56	0.40
2:E:570:VAL:HA	2:E:592:LYS:NZ	2.36	0.40
2:E:632:THR:HG21	2:E:637:LEU:HD23	2.02	0.40
2:E:730:TYR:CG	2:E:731:VAL:N	2.90	0.40
2:E:772:VAL:O	2:E:776:ARG:HG3	2.21	0.40
2:E:922:ALA:O	2:E:925:ILE:HB	2.21	0.40
2:E:934:ARG:NH1	2:E:934:ARG:O	2.55	0.40
2:E:1175:LEU:O	2:E:1179:HIS:CD2	2.74	0.40
2:E:1233:GLU:C	2:E:1234:LYS:HE2	2.41	0.40
2:E:1283:LEU:HB3	2:E:1288:TYR:CE1	2.56	0.40
2:E:1290:VAL:HG13	2:E:1291:TYR:H	1.86	0.40
2:E:1369:GLY:CA	2:E:1418:ILE:HG22	2.51	0.40
2:E:1431:VAL:HG12	2:E:1464:TYR:HB2	2.02	0.40
2:E:1436:SER:OG	2:E:1437:LEU:N	2.54	0.40
3:F:86:SER:O	3:F:89:SER:OG	2.24	0.40
2:B:88:VAL:HB	2:B:128:ARG:HH22	1.84	0.40
2:B:222:TYR:HB3	2:B:405:LEU:HD11	2.04	0.40
2:B:455:PHE:CE2	2:B:466:VAL:HG11	2.56	0.40
2:B:470:MET:HG2	2:B:496:TYR:HB3	2.03	0.40
2:B:526:HIS:NE2	2:B:586:LEU:HD11	2.36	0.40
2:B:910:LEU:HD22	2:B:963:GLN:OE1	2.20	0.40
2:B:964:MET:HG2	2:B:969:TYR:CZ	2.55	0.40
2:B:969:TYR:HE2	2:B:1019:ARG:HH21	1.68	0.40
2:B:993:PHE:HB3	2:B:1049:LEU:HD11	2.03	0.40
2:B:1072:ILE:HA	2:B:1076:TYR:HD2	1.86	0.40
2:B:1080:ARG:HH21	2:B:1117:GLU:HG2	1.86	0.40
2:B:1155:LEU:HA	2:B:1158:GLU:HG2	2.02	0.40
2:B:1179:HIS:O	2:B:1182:LYS:HB2	2.22	0.40
2:B:1231:TYR:HB2	2:B:1240:TYR:HD1	1.86	0.40
2:B:1482:MET:C	2:B:1517:ASN:HD22	2.24	0.40
2:B:1575:TYR:CE1	2:B:1579:HIS:CE1	3.09	0.40
3:C:3:ALA:HA	3:C:52:ASN:HB2	2.03	0.40
1:D:539:LYS:NZ	1:D:540:ILE:HD11	2.37	0.40
1:D:580:SER:CB	1:D:585:VAL:H	2.34	0.40
1:D:666:THR:HG23	1:D:678:MET:SD	2.60	0.40
2:E:13:GLY:O	2:E:34:THR:HA	2.21	0.40
2:E:345:PHE:HB2	2:E:400:TRP:CZ3	2.56	0.40
2:E:408:GLY:HA3	2:E:412:GLN:HB2	2.04	0.40
2:E:802:MET:HE3	2:E:843:PHE:CE1	2.57	0.40
2:E:821:PRO:CG	2:E:863:ILE:HG13	2.50	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:874:CYS:O	2:E:877:VAL:HG12	2.22	0.40
2:E:899:HIS:HD2	2:E:943:MET:HG2	1.81	0.40
2:E:929:MET:HB2	2:E:964:MET:HE3	2.03	0.40
2:E:929:MET:HE1	2:E:972:TYR:HB3	2.03	0.40
2:E:1008:VAL:HG12	2:E:1009:MET:HE2	2.03	0.40
2:E:1011:MET:HA	2:E:1014:ASN:ND2	2.37	0.40
2:E:1022:ASN:OD1	2:E:1086:ARG:NH1	2.53	0.40
2:E:1059:LEU:HA	2:E:1059:LEU:HD23	1.77	0.40
2:E:1180:CYS:HB2	2:E:1191:GLU:HG3	2.03	0.40
2:E:1367:TYR:C	2:E:1368:TYR:HD1	2.24	0.40
3:F:3:ALA:HA	3:F:52:ASN:HB2	2.03	0.40
2:B:10:GLN:HB2	2:B:37:ILE:HD12	2.03	0.40
2:B:928:ILE:CA	2:B:932:LEU:HD13	2.48	0.40
2:B:950:ILE:O	2:B:954:VAL:HG23	2.21	0.40
2:B:997:ILE:HG13	2:B:998:GLY:N	2.36	0.40
2:B:1245:TYR:HA	2:B:1248:ARG:HG3	2.03	0.40
2:B:1360:PRO:HA	2:B:1387:GLU:HA	2.02	0.40
2:B:1612:THR:H	2:B:1615:LEU:HB2	1.86	0.40
3:C:43:ASN:OD1	3:C:50:PRO:HB2	2.21	0.40
2:E:186:ALA:O	2:E:189:VAL:HB	2.22	0.40
2:E:223:GLY:HA2	2:E:281:PHE:O	2.22	0.40
2:E:778:TYR:O	2:E:780:GLN:N	2.53	0.40
2:E:932:LEU:N	2:E:935:ARG:HE	2.19	0.40
2:E:950:ILE:O	2:E:954:VAL:HG23	2.21	0.40
2:E:997:ILE:HG13	2:E:998:GLY:N	2.36	0.40
2:E:1091:TRP:CZ2	2:E:1131:MET:HB3	2.56	0.40
2:E:1125:ILE:HG12	2:E:1172:LEU:HD23	2.04	0.40
2:E:1238:ASP:HB3	2:E:1281:HIS:HB3	2.04	0.40
2:E:1512:ILE:HG22	2:E:1517:ASN:HB2	2.03	0.40
3:F:43:ASN:OD1	3:F:50:PRO:HB2	2.21	0.40
3:F:82:PHE:HD1	3:F:112:LEU:HD11	1.86	0.40
2:B:103:ARG:NH1	2:B:104:LYS:HE3	2.30	0.40
2:B:345:PHE:HB2	2:B:400:TRP:CZ3	2.56	0.40
2:B:422:ASP:N	2:B:422:ASP:OD1	2.50	0.40
2:B:824:ILE:HD11	2:B:863:ILE:HA	2.04	0.40
2:B:1044:ASN:HA	2:B:1101:PHE:CZ	2.55	0.40
2:B:1238:ASP:HA	2:B:1241:ILE:HD12	2.03	0.40
1:D:530:SER:HB3	1:D:531:ARG:NH2	2.37	0.40
1:D:620:LYS:HE2	1:D:638:LEU:HD11	2.02	0.40
2:E:436:ILE:HG23	2:E:711:HIS:NE2	2.36	0.40
2:E:824:ILE:HD11	2:E:863:ILE:HA	2.04	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:E:828:LYS:HE2	2:E:870:ARG:NH2	2.37	0.40
2:E:886:LEU:HD13	2:E:932:LEU:CD2	2.51	0.40
2:E:993:PHE:HB3	2:E:1049:LEU:HD11	2.03	0.40
2:E:1095:GLY:HA3	2:E:1096:PRO:HD3	1.95	0.40
3:F:28:PHE:CD2	3:F:29:PRO:HD2	2.56	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	196/733 (27%)	170 (87%)	26 (13%)	0	100	100
1	D	196/733 (27%)	170 (87%)	26 (13%)	0	100	100
2	B	1640/1648 (100%)	1476 (90%)	164 (10%)	0	100	100
2	E	1640/1648 (100%)	1476 (90%)	164 (10%)	0	100	100
3	C	175/184 (95%)	160 (91%)	15 (9%)	0	100	100
3	F	175/184 (95%)	160 (91%)	15 (9%)	0	100	100
All	All	4022/5130 (78%)	3612 (90%)	410 (10%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	183/664 (28%)	182 (100%)	1 (0%)	88	93
1	D	183/664 (28%)	182 (100%)	1 (0%)	88	93
2	B	1495/1497 (100%)	1485 (99%)	10 (1%)	84	90
2	E	1495/1497 (100%)	1484 (99%)	11 (1%)	84	90
3	C	153/157 (98%)	151 (99%)	2 (1%)	69	82
3	F	153/157 (98%)	151 (99%)	2 (1%)	69	82
All	All	3662/4636 (79%)	3635 (99%)	27 (1%)	84	90

All (27) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	715	LYS
2	B	128	ARG
2	B	227	ASN
2	B	415	LYS
2	B	478	LYS
2	B	856	LYS
2	B	935	ARG
2	B	1252	ARG
2	B	1463	ARG
2	B	1540	ARG
2	B	1605	ARG
3	C	66	ARG
3	C	123	LYS
1	D	715	LYS
2	E	128	ARG
2	E	227	ASN
2	E	415	LYS
2	E	478	LYS
2	E	769	GLN
2	E	856	LYS
2	E	935	ARG
2	E	1252	ARG
2	E	1463	ARG
2	E	1540	ARG
2	E	1605	ARG
3	F	66	ARG
3	F	123	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (47) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	596	GLN
2	B	30	GLN
2	B	156	ASN
2	B	187	HIS
2	B	227	ASN
2	B	419	HIS
2	B	526	HIS
2	B	649	ASN
2	B	653	ASN
2	B	670	GLN
2	B	723	HIS
2	B	769	GLN
2	B	858	ASN
2	B	889	GLN
2	B	895	ASN
2	B	908	ASN
2	B	1014	ASN
2	B	1041	GLN
2	B	1044	ASN
2	B	1048	HIS
2	B	1256	ASN
2	B	1424	GLN
2	B	1517	ASN
2	B	1579	HIS
3	C	43	ASN
1	D	596	GLN
2	E	30	GLN
2	E	156	ASN
2	E	187	HIS
2	E	227	ASN
2	E	419	HIS
2	E	526	HIS
2	E	649	ASN
2	E	653	ASN
2	E	670	GLN
2	E	723	HIS
2	E	858	ASN
2	E	889	GLN
2	E	895	ASN
2	E	1014	ASN
2	E	1041	GLN
2	E	1044	ASN
2	E	1048	HIS

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Mol	Chain	Res	Type
2	E	1256	ASN
2	E	1424	GLN
2	E	1517	ASN
2	E	1579	HIS

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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 monosaccharides in this entry.

5.6 Ligand geometry (i)

There are no ligands in this entry.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

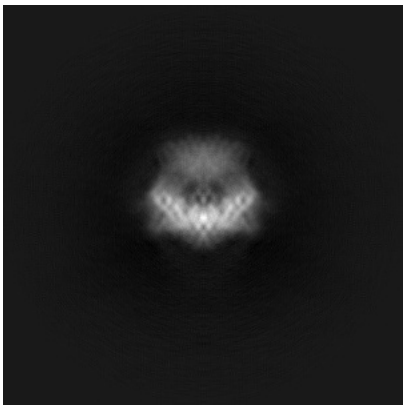
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-60150. These allow visual inspection of the internal detail of the map and identification of artifacts.

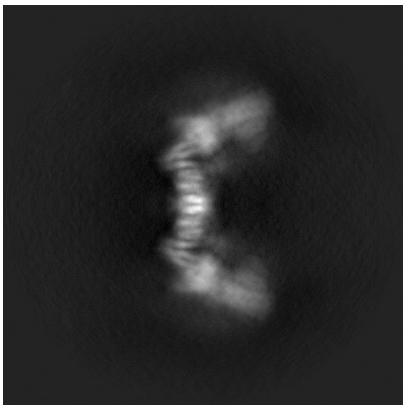
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

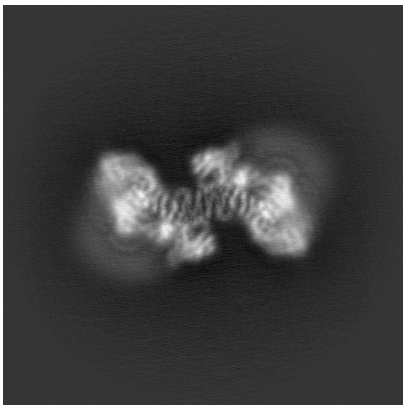
6.1.1 Primary map



X

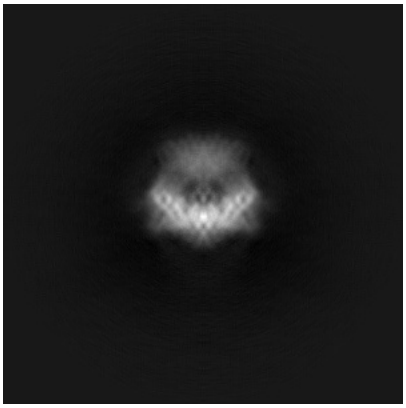


Y

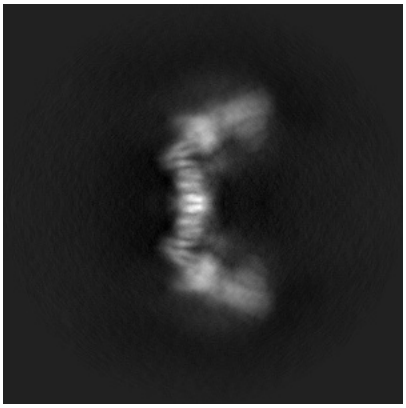


Z

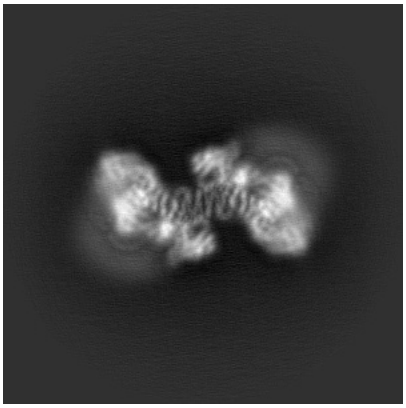
6.1.2 Raw map



X



Y

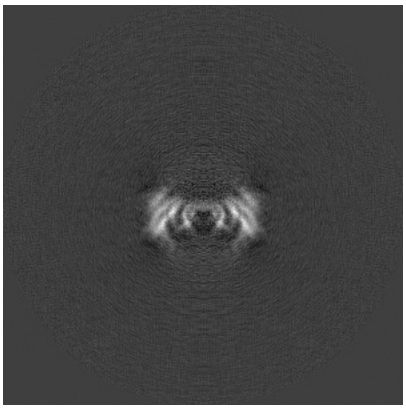


Z

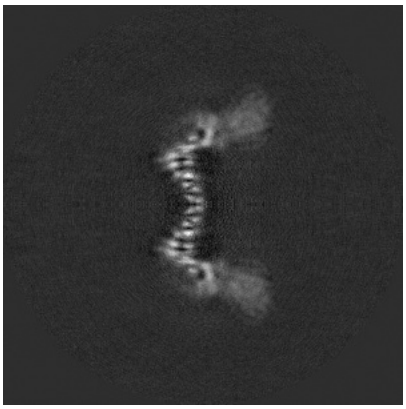
The images above show the map projected in three orthogonal directions.

6.2 Central slices (i)

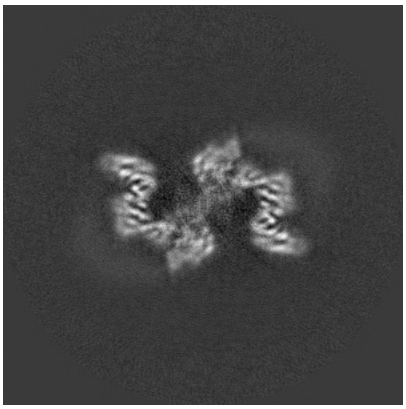
6.2.1 Primary map



X Index: 170

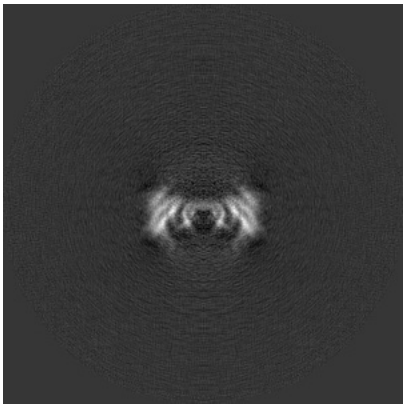


Y Index: 170

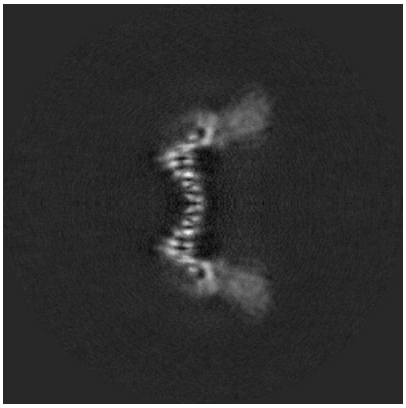


Z Index: 170

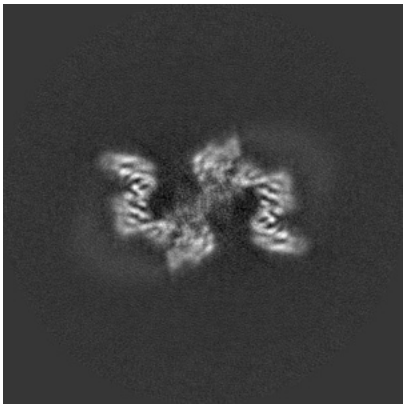
6.2.2 Raw map



X Index: 170



Y Index: 170

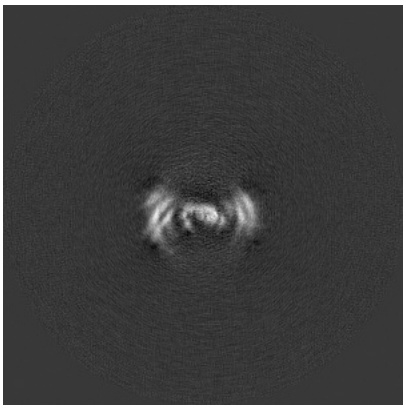


Z Index: 170

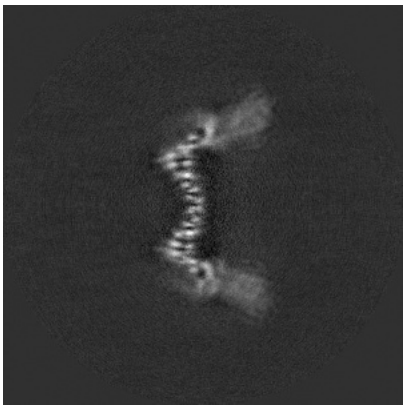
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

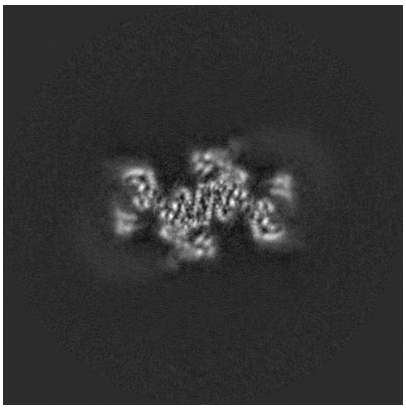
6.3.1 Primary map



X Index: 166

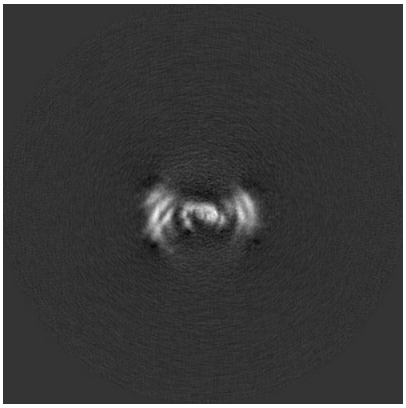


Y Index: 169

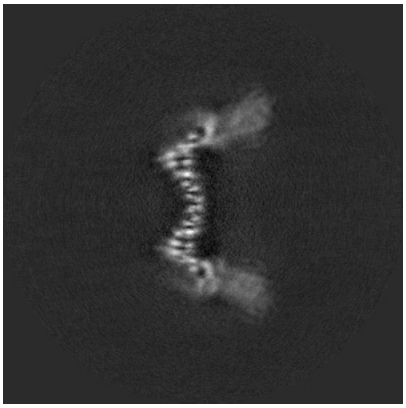


Z Index: 159

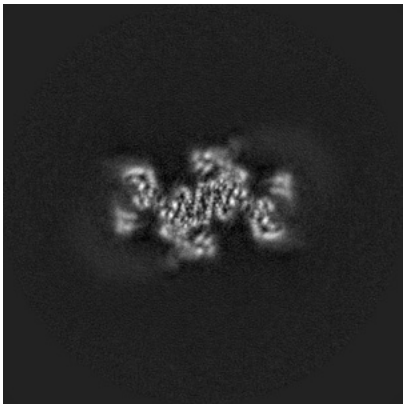
6.3.2 Raw map



X Index: 166



Y Index: 169

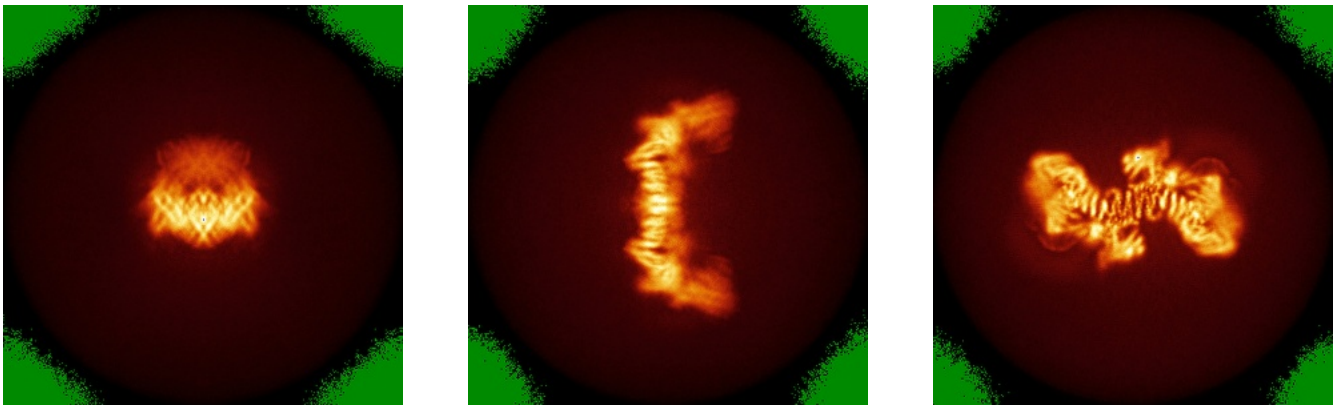


Z Index: 159

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

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

6.4.1 Primary map



X Y Z

6.4.2 Raw map

X Y Z

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

6.5 Orthogonal surface views (i)

6.5.1 Primary map

X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.01. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map

X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

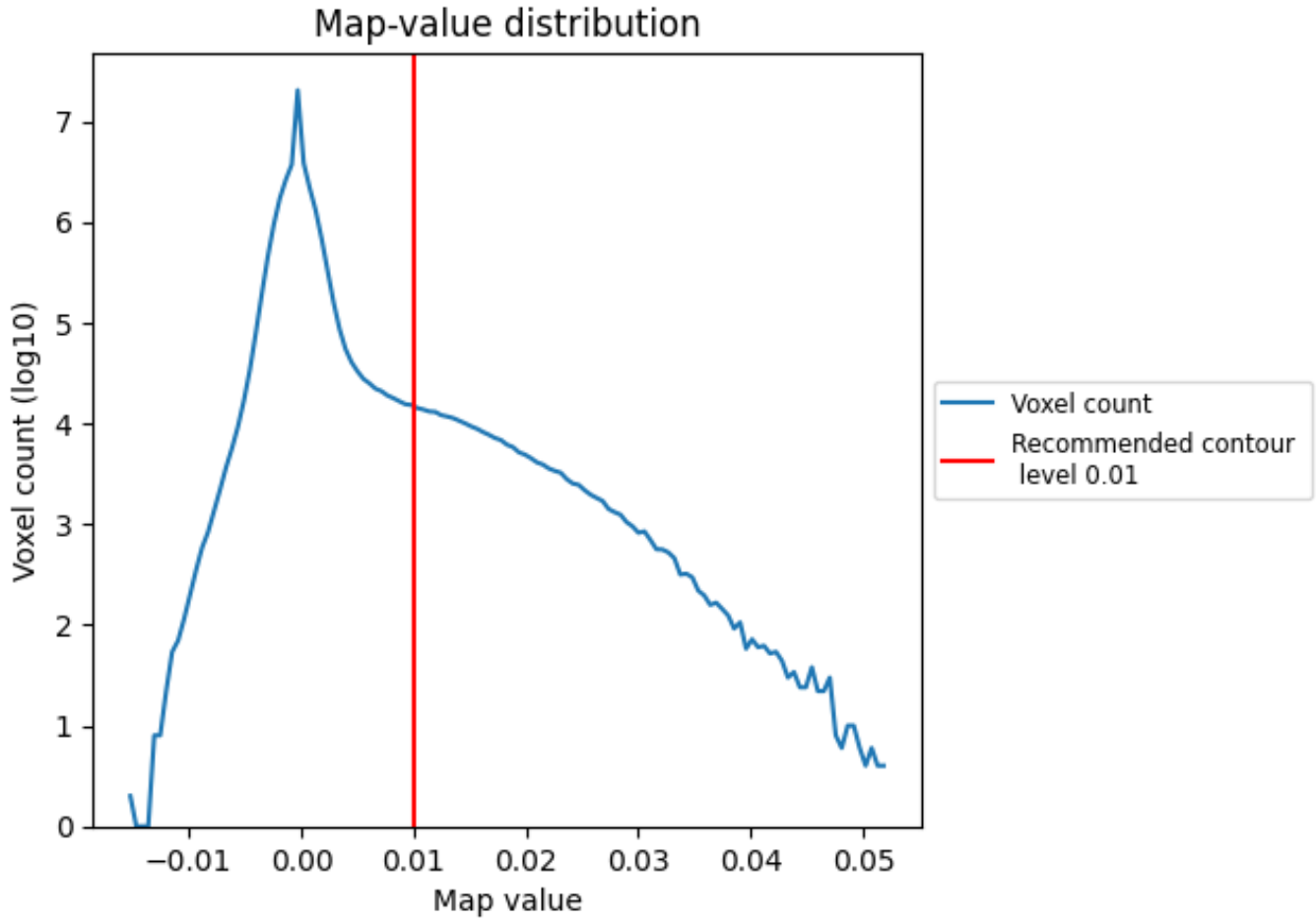
6.6 Mask visualisation (i)

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

7 Map analysis

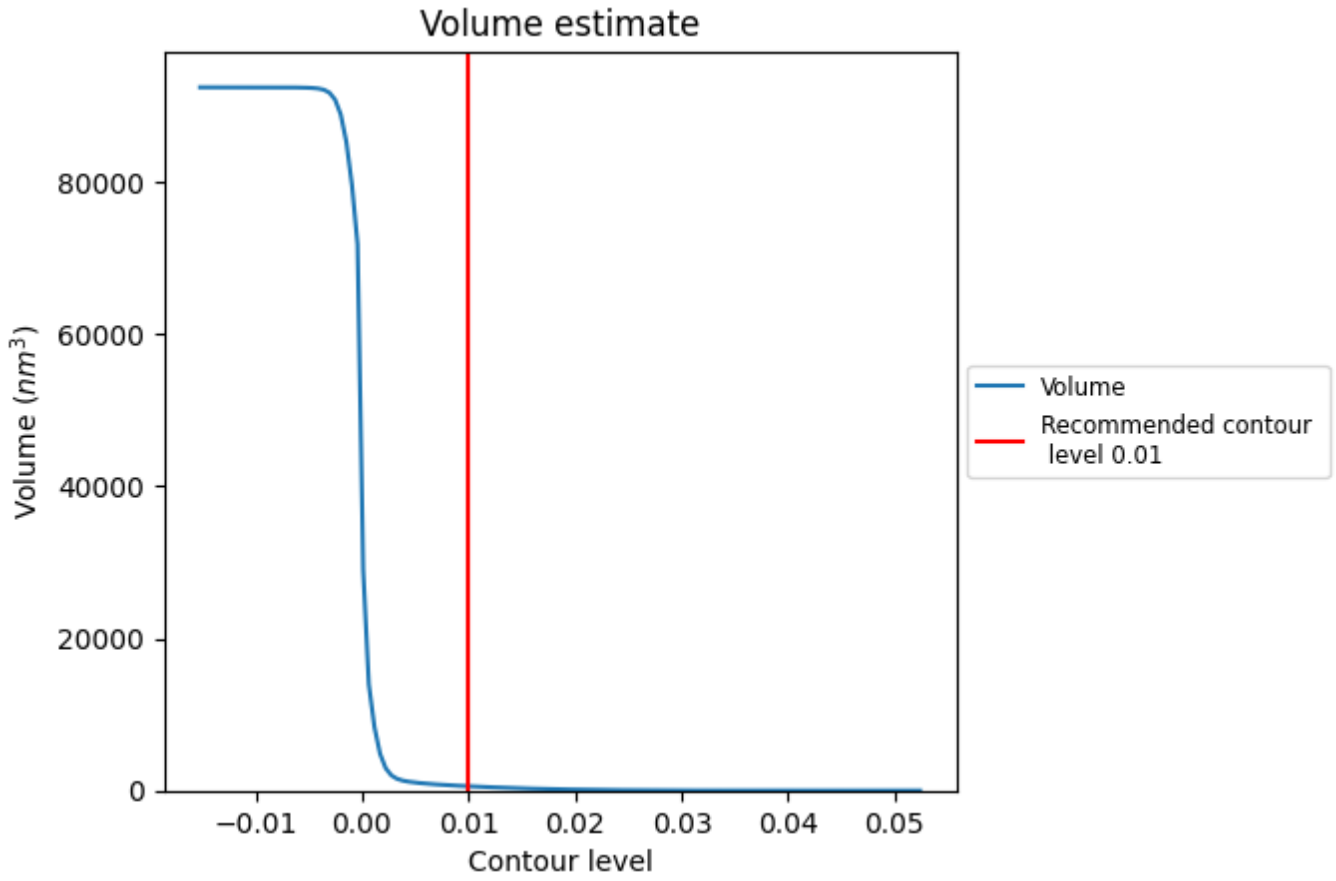
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

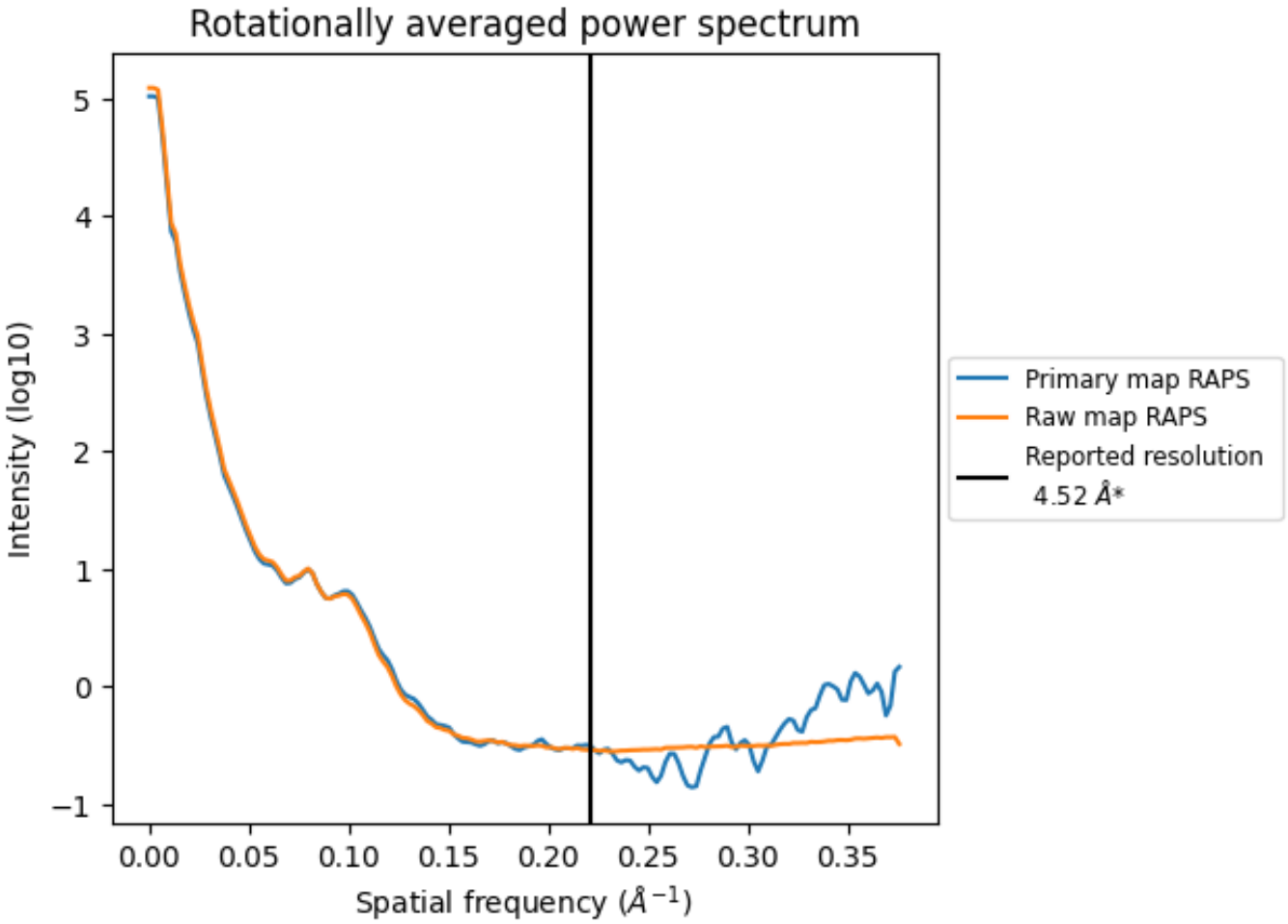
7.2 Volume estimate (i)



The volume at the recommended contour level is 568 nm^3; this corresponds to an approximate mass of 513 kDa.

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

7.3 Rotationally averaged power spectrum (i)

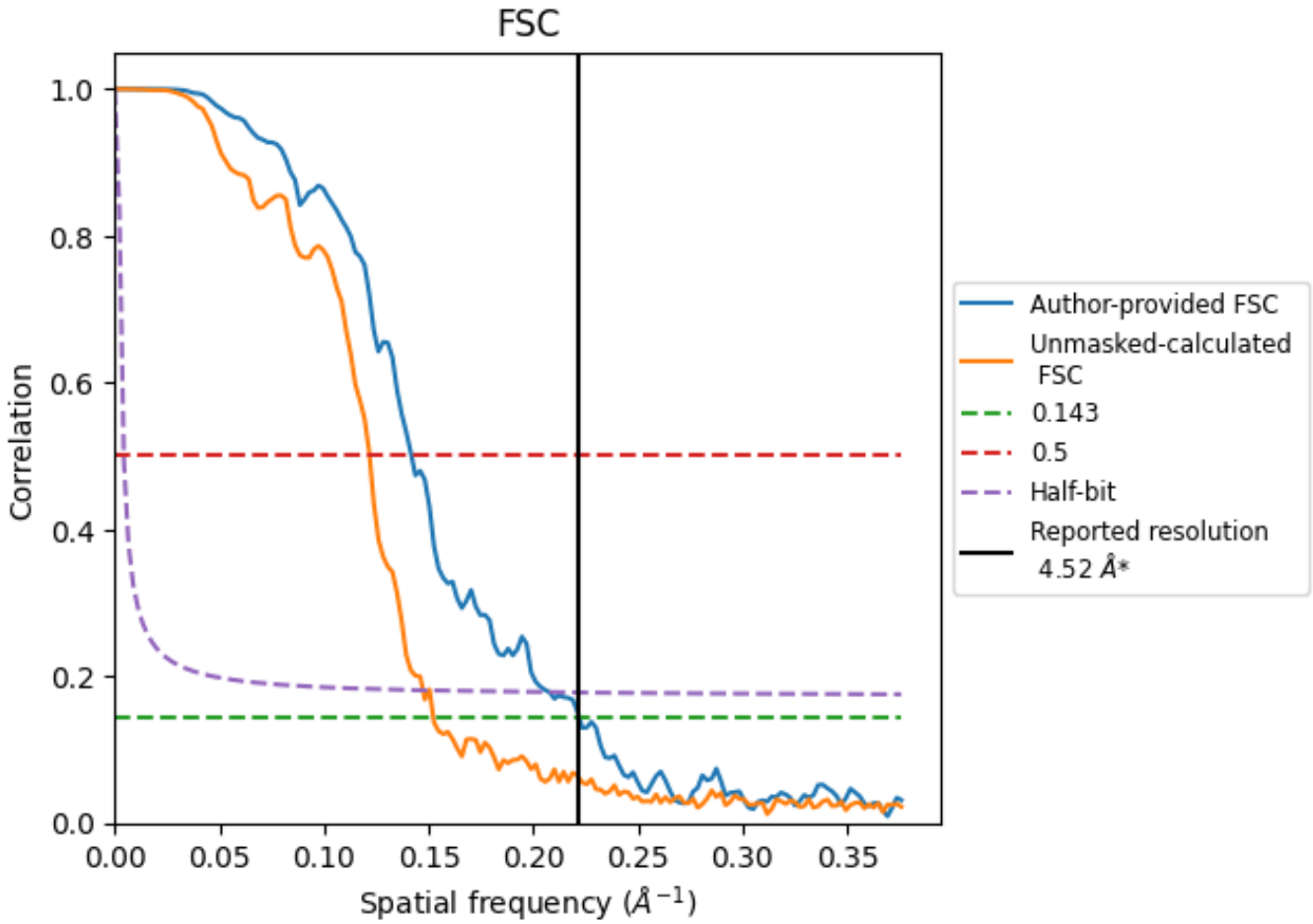


*Reported resolution corresponds to spatial frequency of 0.221 Å^{-1}

8 Fourier-Shell correlation

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

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.221 Å^{-1}

8.2 Resolution estimates (i)

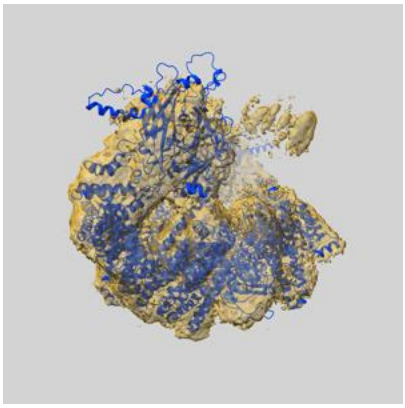
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.52	-	-
Author-provided FSC curve	4.50	7.05	4.81
Unmasked-calculated*	6.57	8.21	6.79

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 6.57 differs from the reported value 4.52 by more than 10 %

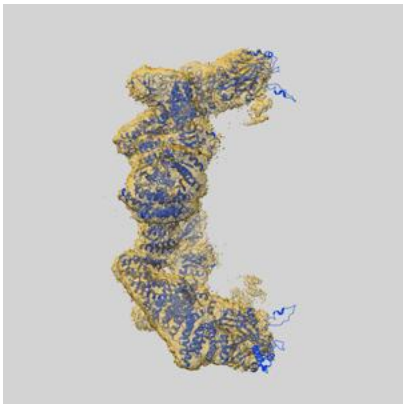
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-60150 and PDB model 8ZJM. Per-residue inclusion information can be found in section 3 on page 5.

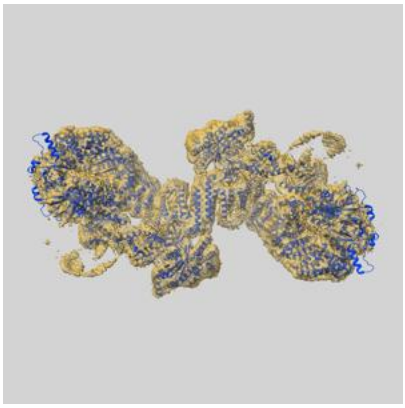
9.1 Map-model overlay



X



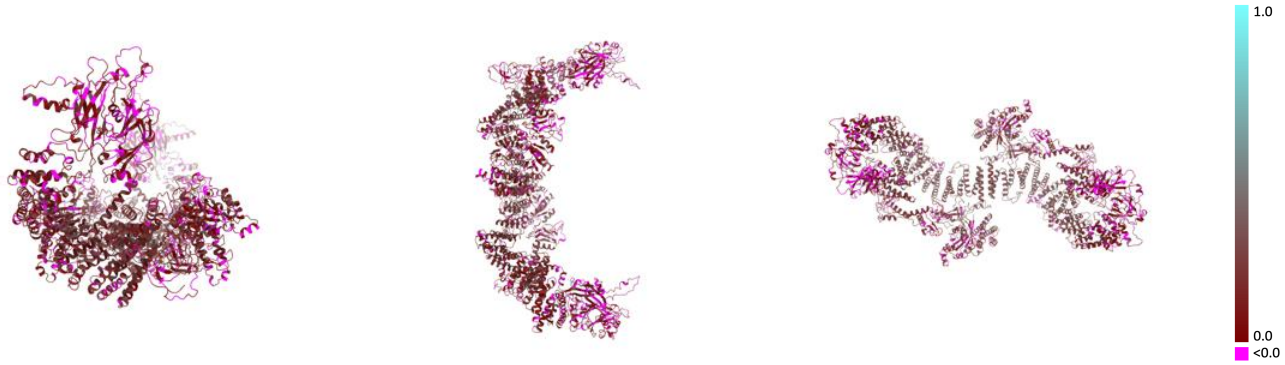
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.01 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

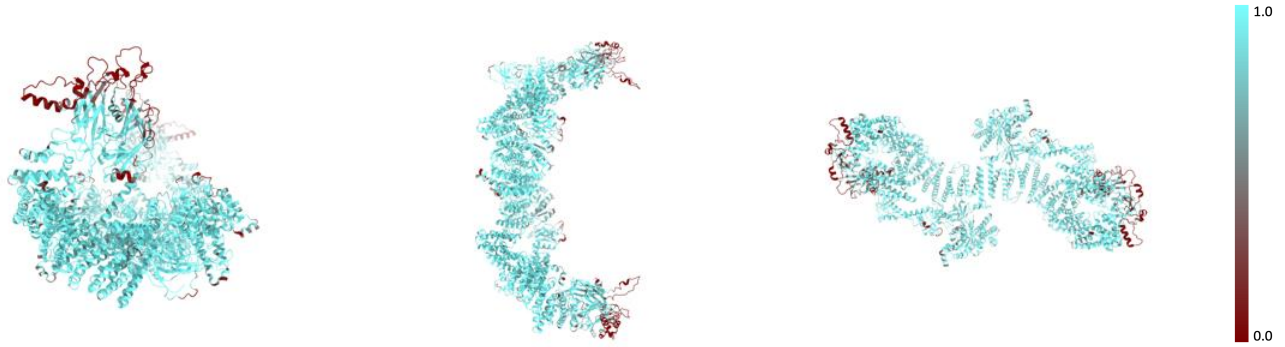
9.2 Q-score mapped to coordinate model (i)



X Y Z

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

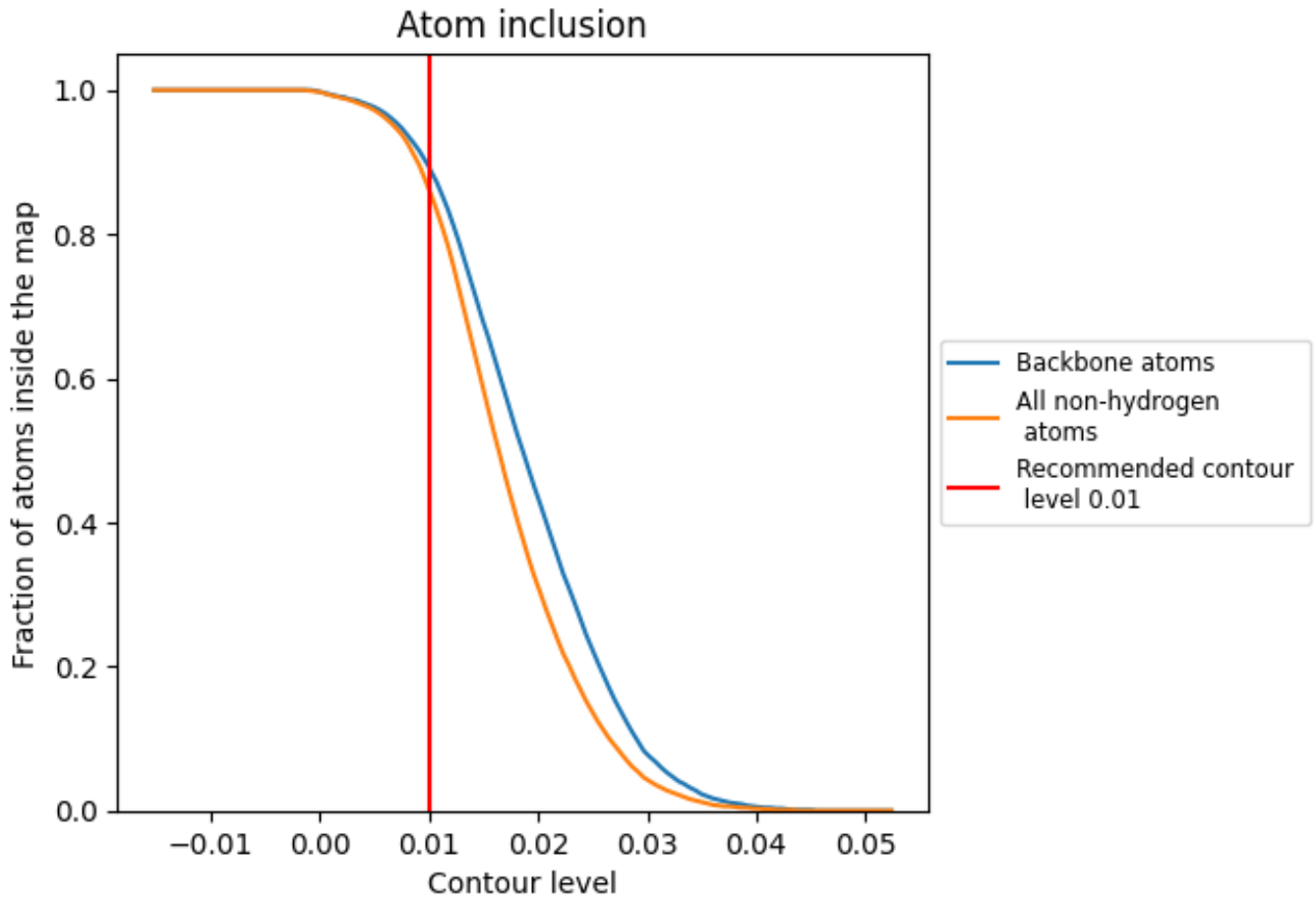
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.01).

9.4 Atom inclusion (i)



At the recommended contour level, 89% of all backbone atoms, 86% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.01) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.8620	0.1420
A	0.8650	0.1090
B	0.8590	0.1490
C	0.8680	0.1320
D	0.8770	0.1070
E	0.8600	0.1450
F	0.8720	0.1300