Full wwPDB EM Validation Report ⓘ

Nov 20, 2022 – 09:59 AM EST

PDB ID	:	3JBL
EMDB ID	:	EMD-6458
Title	:	Cryo-EM Structure of the Activated NAIP2/NLRC4 Inflammasome Reveals Nucleated Polymerization
Authors	:	Zhang, L.; Chen, S.; Ruan, J.; Wu, J.; Tong, A.B.; Yin, Q.; Li, Y.; David, L.; Lu, A.; Wang, W.L.; Marks, C.; Ouyang, Q.; Zhang, X.; Mao, Y.; Wu, H.
Deposited on	:	2015-09-05
Resolution	:	4.50 Å(reported)

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

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

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

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

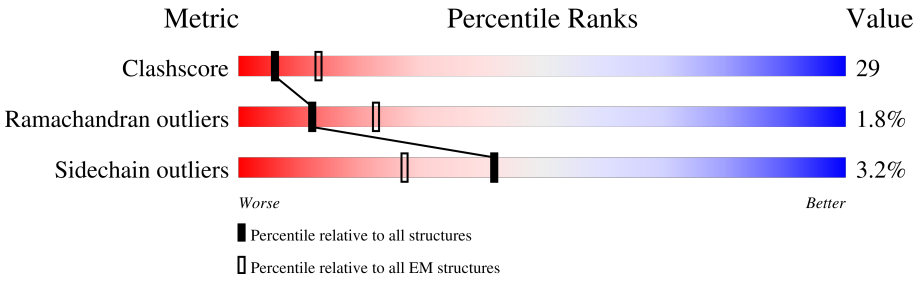
EMDB validation analysis	:	0.0.1.dev43
Mogul	:	1.8.5 (274361), CSD as541be (2020)
MolProbity	:	4.02b-467
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
MapQ	:	1.9.9
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

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 4.50 Å.

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



Metric	Whole archive (#Entries)	EM structures (#Entries)
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	932	55% 43% 51%
1	B	932	55% 43% 51%
1	C	932	55% 44% 50%
1	D	932	54% 44% 50%
1	E	932	55% 44% 50%
1	F	932	54% 44% 50%
1	G	932	55% 44% 50%
1	H	932	55% 43% 50%

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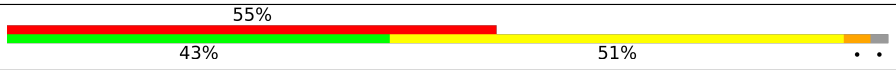
Mol	Chain	Length	Quality of chain
1	I	932	
1	J	932	
1	K	932	

2 Entry composition (i)

There is only 1 type of molecule in this entry. The entry contains 80124 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 NLR family CARD domain-containing protein 4.

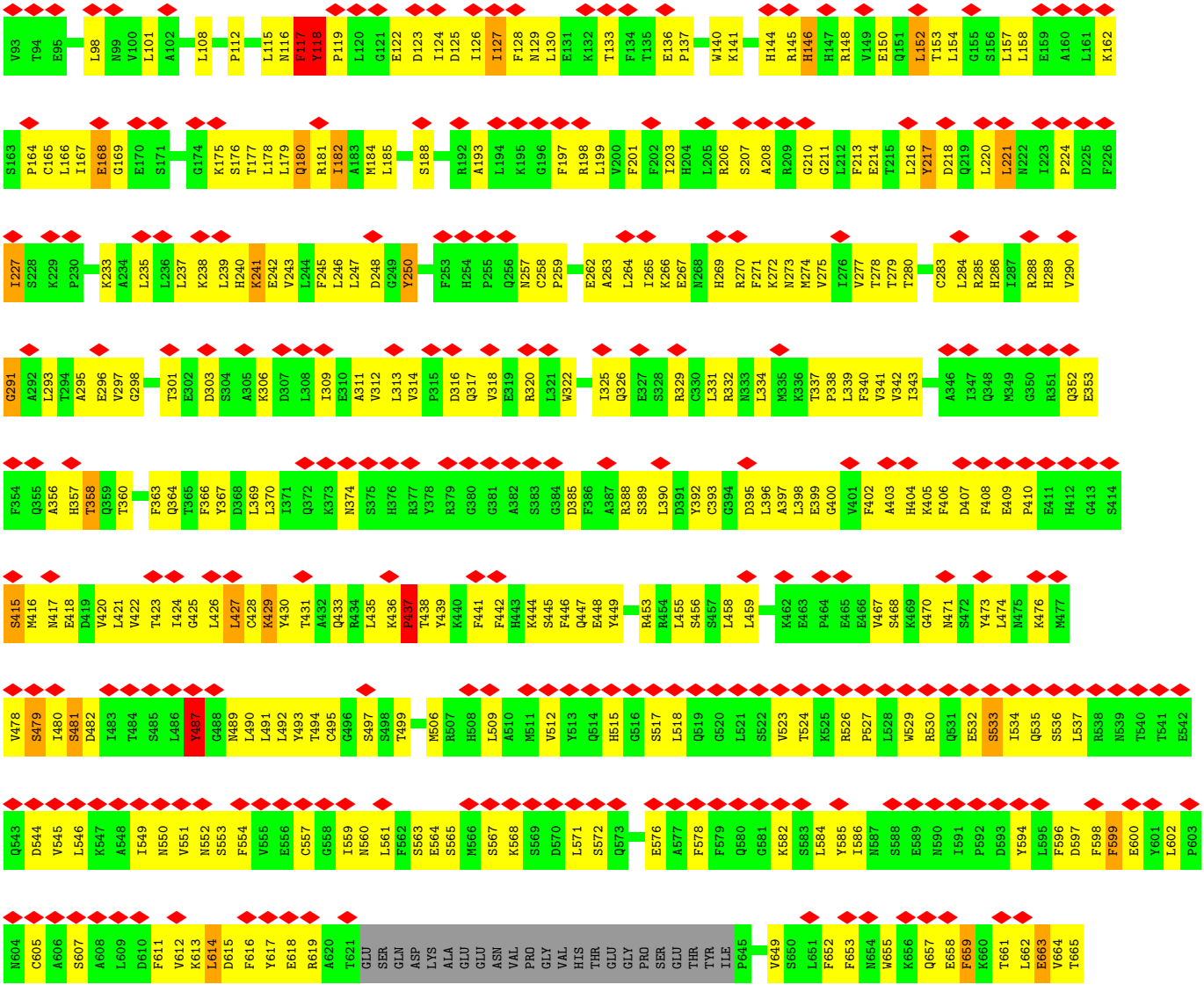
Mol	Chain	Residues	Atoms						AltConf	Trace
1	K	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	A	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	B	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	C	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	D	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	E	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	F	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	G	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	H	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	I	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		
1	J	909	Total	C	N	O	P	S	0	0
			7284	4647	1233	1363	1	40		

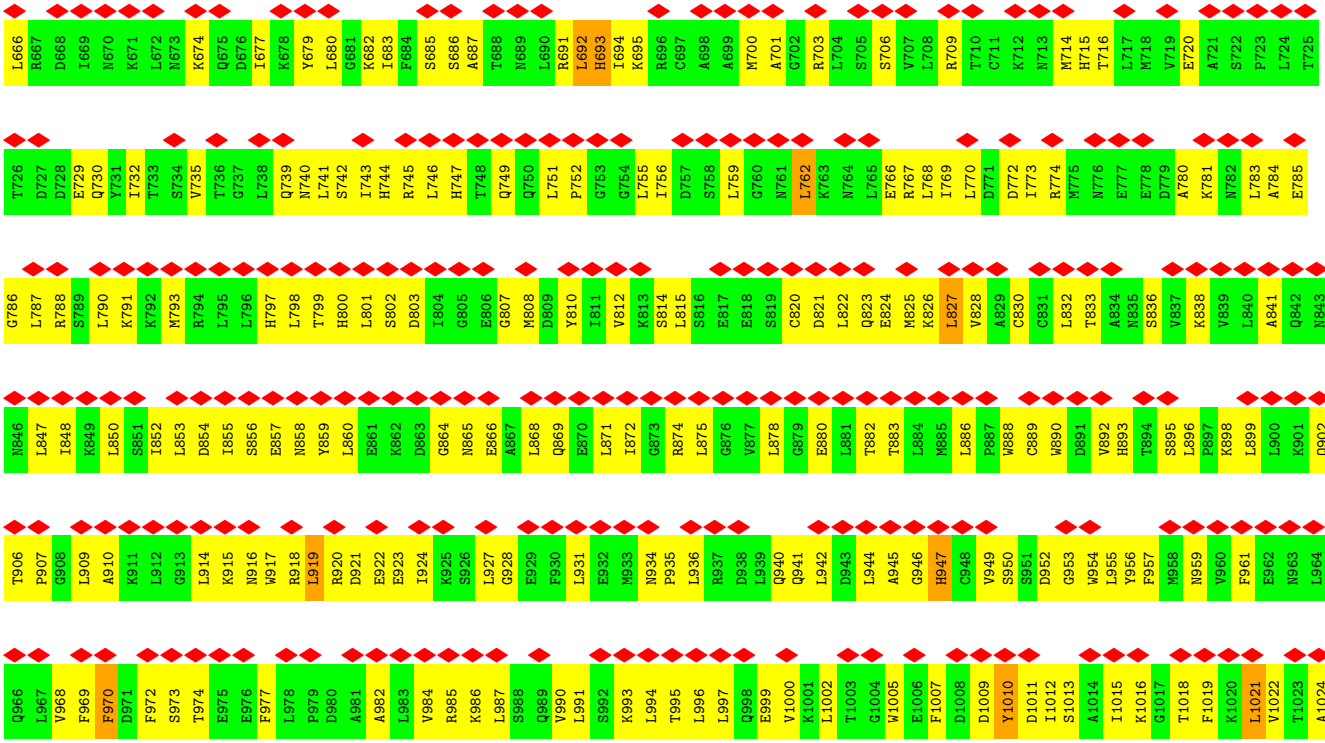
3 Residue-property plots (i)

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: NLR family CARD domain-containing protein 4

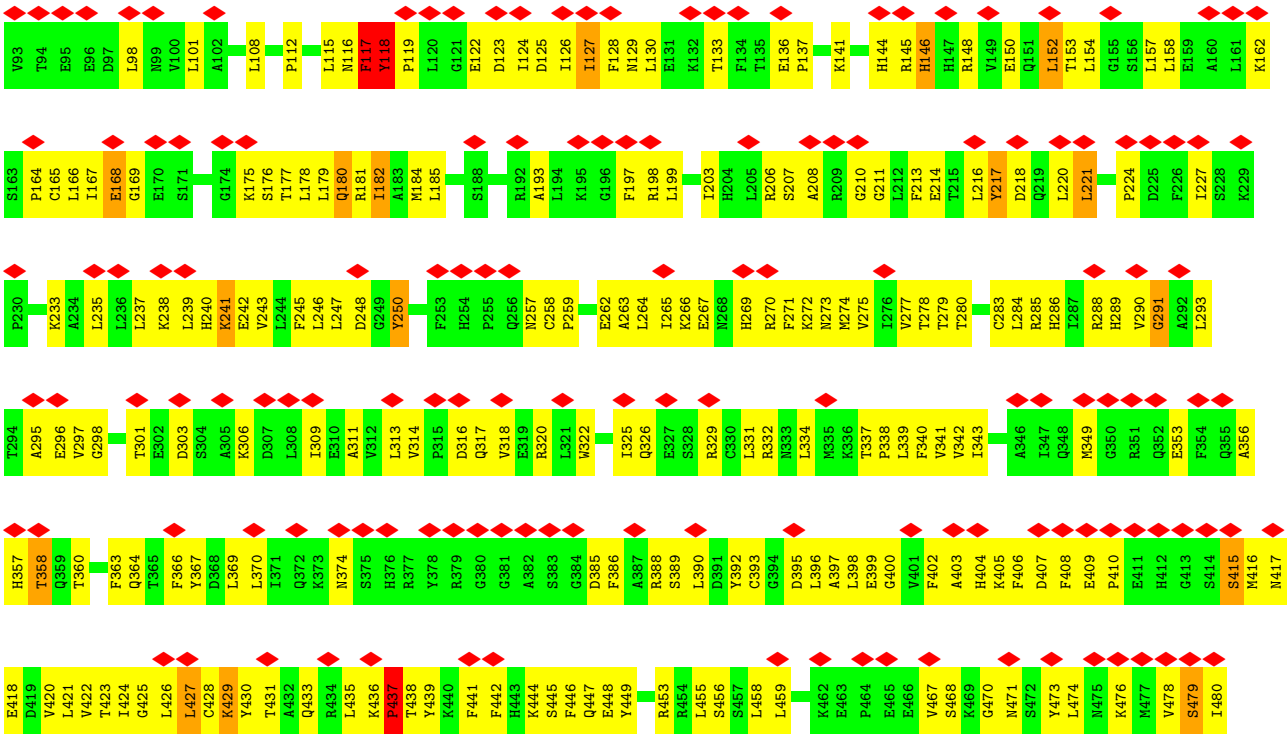
Chain K:

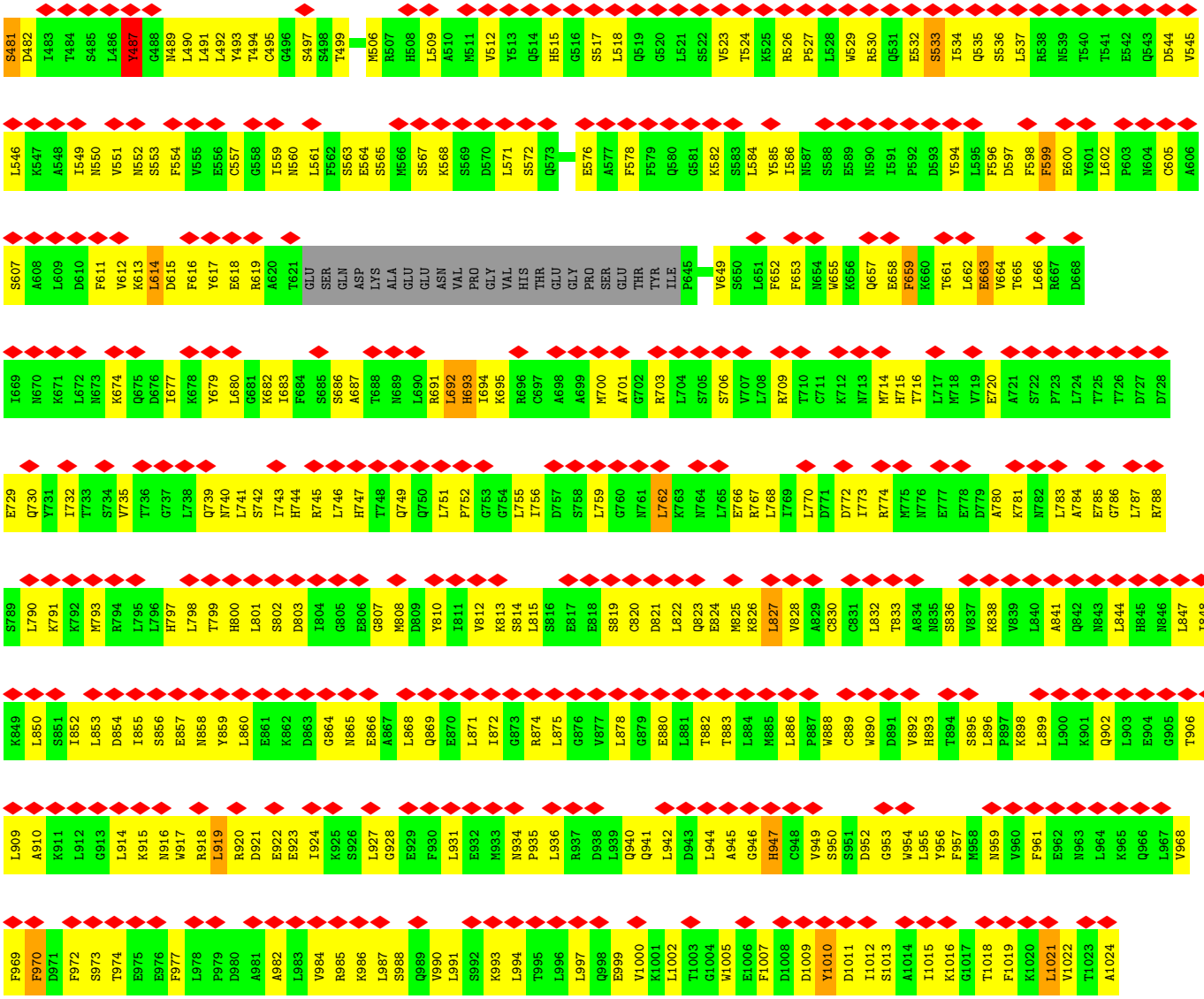




• Molecule 1: NLR family CARD domain-containing protein 4

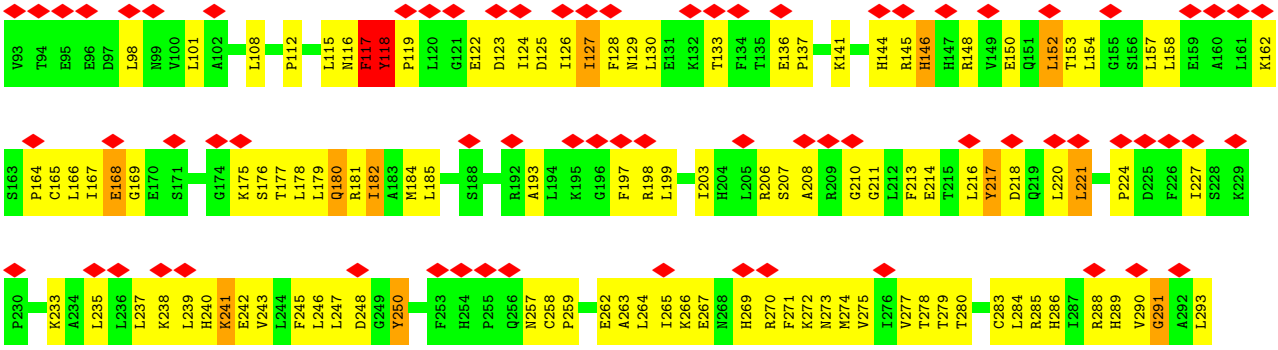
Chain A:

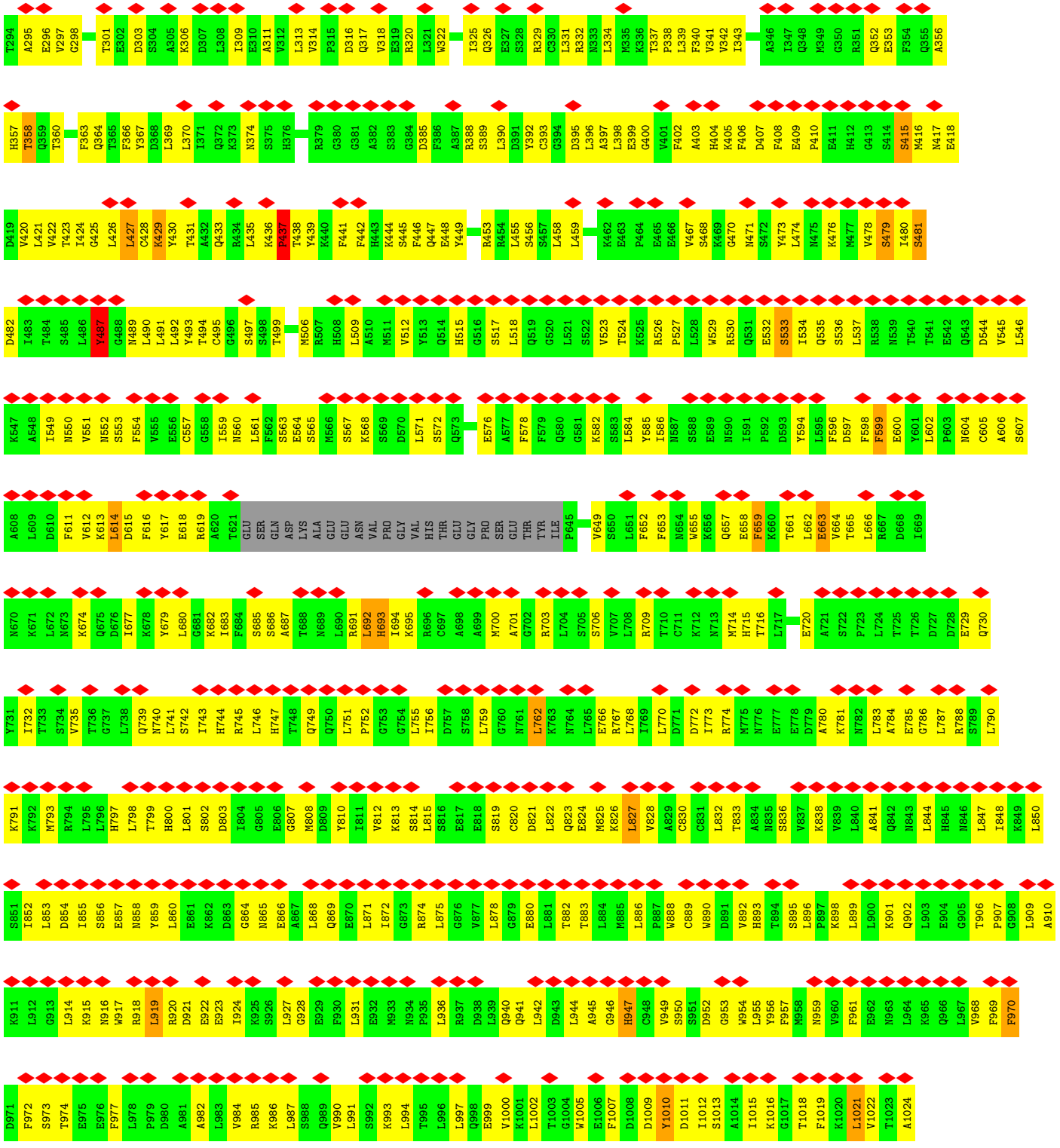




• Molecule 1: NLR family CARD domain-containing protein 4

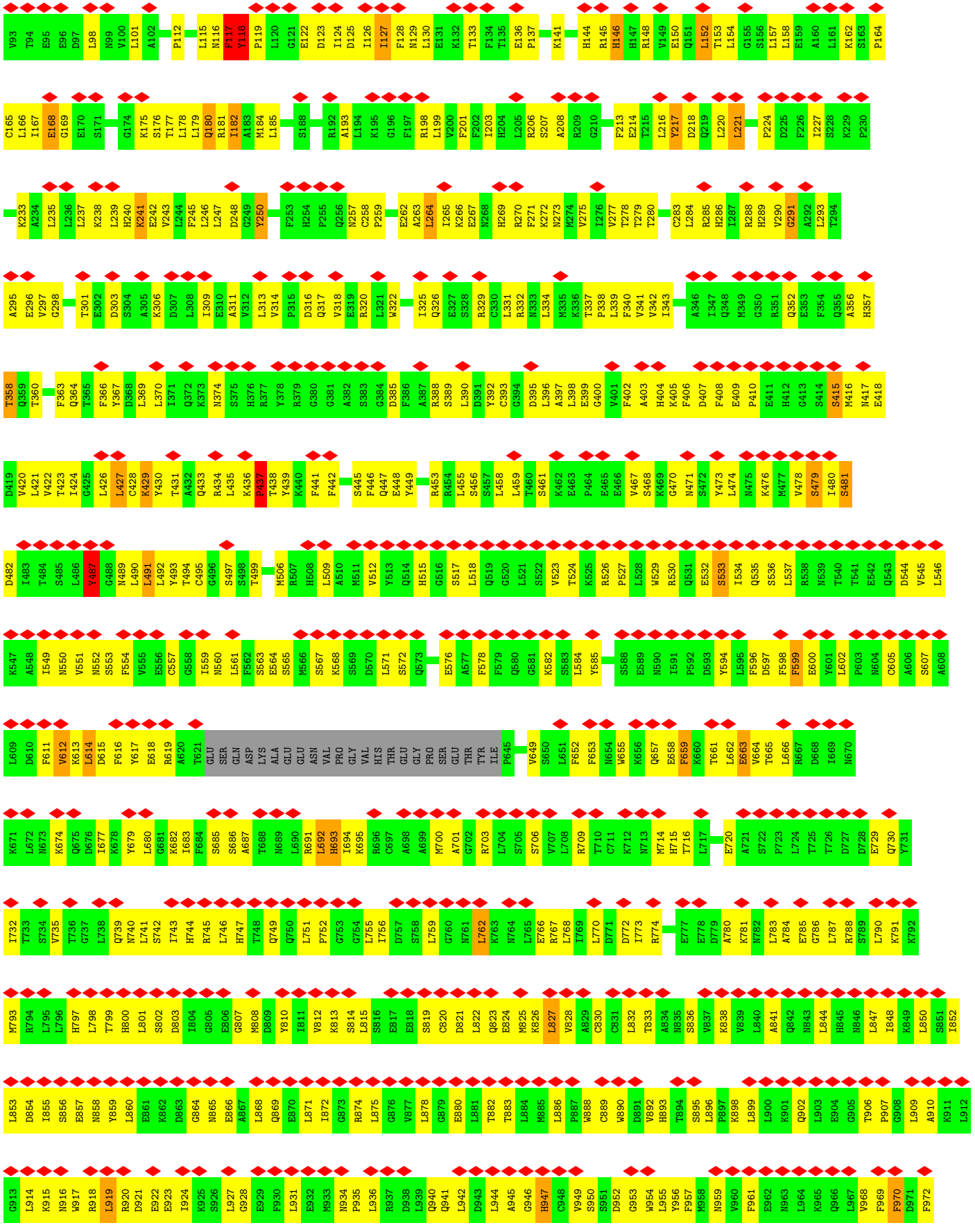
Chain B:

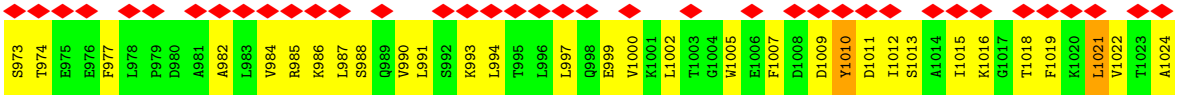




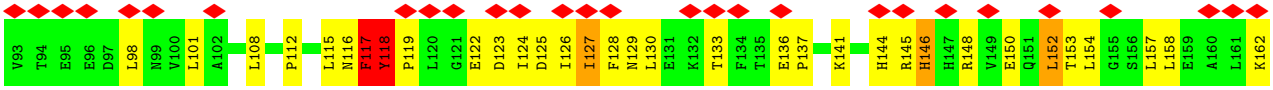
• Molecule 1: NLR family CARD domain-containing protein 4

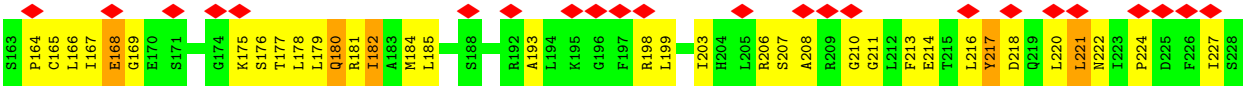
Chain C:

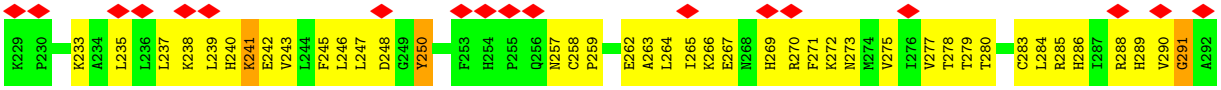

V93 T94 E95 E96 D97 L98 N99 V100 L101 A102 P112 L115 N116 F117 Y118 P119 L120 G121 E122 D123 I124 D125 I126 I127 F128 N129 L130 E131 K132 T133 F134 T135 E136 P137 K141 H144 R145 H146 H147 R148 V149 E150 Q151 L152 T153 L154 G155 S156 L157 L158 E159 A160 L161 K162 S163 P164
C165 L166 T167 E168 G169 E170 S171 G174 K175 S176 T177 L178 L179 Q180 R181 I182 A183 M184 L185 S188 R192 A193 L194 K195 G196 F197 R198 L199 V200 F201 F202 I203 H204 L205 R206 S207 A208 R209 G210 F213 E214 T215 L216 Y217 D218 Q219 L220 I221 P224 D225 F226 I227 S228 K229 P230
K233 A234 L235 L236 L237 K238 L239 H240 K241 E242 V243 L244 F245 L246 L247 D248 G249 Y250 F253 H254 P255 Q256 N257 C258 P259 E262 A263 I264 I265 K266 E267 N268 H269 R270 F271 K272 N273 M274 V275 I276 V277 T278 T279 T280 C283 L284 R285 H286 I287 R288 H289 V290 G291 A292 L293 T294
A295 E296 V297 G298 T301 E302 D303 S304 A305 K306 D307 L308 I309 E310 A311 V312 L313 V314 P315 D316 Q317 V318 E319 R320 L321 W322 I325 Q326 E327 S328 R329 C330 L331 R332 N333 L334 M335 K336 T337 P338 L339 F340 V341 V342 I343 A346 I347 Q348 M349 G350 R351 Q352 E353 F354 Q355 A356 H357
T358 Q359 T360 F363 Q364 T365 F366 Y367 D368 L369 L370 I371 Q372 K373 N374 S375 H376 R377 Y378 R379 G380 G381 A382 S383 G384 D385 F386 A387 R388 S389 L390 D391 Y392 C393 G394 D395 L396 A397 L398 E399 G400 V401 F402 A403 H404 K405 F406 D407 F408 E409 P410 E411 H412 G413 S414 S415 M416 N417 E418
D419 V420 L421 V422 T423 I424 G425 L426 L427 C428 K429 Y430 T431 A432 Q433 R434 L435 K436 P437 T438 Y439 K440 F441 F442 S445 F446 Q447 E448 Y449 R453 R454 L455 S456 S457 L458 L459 T460 S461 K462 E463 P464 E465 E466 V467 S468 K469 G470 N471 S472 Y473 L474 N475 K476 M477 Y478 S479 I480 S481
D482 I483 T484 S485 L486 Y487 G488 N489 L490 L491 L492 Y493 T494 C495 G496 S497 S498 T499 M506 R507 H508 L509 A510 M511 V512 Y513 Q514 H515 G516 S517 L518 Q519 G520 L521 S522 V523 T524 K525 R526 P527 L528 W529 R530 Q531 E532 S533 I534 Q535 S536 L537 R538 N539 T540 T541 E542 Q543 D544 V545 L546
K547 A548 I549 N550 V551 N552 S553 F554 V555 E556 C557 G558 I559 N560 L561 F562 S563 E564 S565 M566 S567 K568 S569 D570 L571 S572 Q573 E576 A577 F578 F579 Q580 G581 K582 S583 L584 Y585 S588 E589 N590 I591 P592 D593 Y594 L595 F596 D597 F598 F599 E600 Y601 L602 P603 N604 C605 A606 S607 A608
L609 D610 F611 V612 K613 L614 D615 F616 Y617 E618 R619 A620 T621 GLU SER GLN ASP LYS ALA GLU GLU ASN VAL PRO GLY VAL HIS THR GLU GLY PRO SER GLU THR TYR ILE P645 V649 S650 L651 F652 F653 N654 W655 K656 Q657 E658 F659 K660 T661 L662 E663 V664 T665 L666 R667 D668 I669 N670
K671 L672 N673 K674 Q675 D676 I677 K678 Y679 L680 G681 K682 I683 F684 S685 S686 A687 T688 N689 L690 R691 L692 H693 I694 K695 R696 C697 A698 A699 M700 A701 G702 R703 L704 S705 S706 V707 L708 R709 T710 C711 K712 N713 M714 H715 T716 L717 E720 A721 S722 P723 L724 T725 T726 D727 D728 E729 Q730 Y731
I732 T733 S734 V735 T736 G737 L738 Q739 N740 L741 S742 I743 H744 R745 L746 H747 T748 Q749 Q750 L751 P752 G753 G754 L755 T756 D757 S758 L759 G760 N761 L762 K763 N764 L765 E766 R767 L768 T769 L770 D771 D772 I773 R774 E777 E778 D779 A780 K781 N782 L783 A784 E785 G786 L787 R788 S789 L790 K791 K792
M793 R794 L795 L796 H797 L798 T799 H800 L801 S802 D803 I804 G805 E806 G807 M808 D809 Y810 I811 V812 K813 S814 L815 S816 E817 E818 S819 C820 D821 L822 Q823 E824 M825 K826 L827 V828 A829 C830 C831 L832 T833 A834 N835 S836 V837 K838 V839 L840 A841 Q842 N843 L844 H845 N846 L847 I848 K849 L850 S851 I852
L853 D854 I855 S856 E857 N858 Y859 L860 E861 K862 D863 G864 N865 E866 A867 L868 Q869 E870 L871 I872 G873 R874 L875 G876 V877 L878 G879 E880 L881 T882 T883 L884 M885 L886 P887 W888 C889 W890 D891 V892 H893 T894 S895 L896 P897 K898 L899 L900 K901 Q902 L903 E904 G905 T906 P907 G908 L909 A910 K911 L912
G913 L914 K915 N916 W917 R918 L919 R920 D921 E922 E923 I924 K925 S926 L927 G928 E929 F930 L931 E932 M933 N934 P935 L936 R937 D938 L939 Q940 Q941 L942 D943 L944 A945 G946 H947 C948 V949 S950 S951 D952 G953 W954 L955 Y956 F957 M958 N959 V960 F961 E962 N963 L964 K965 Q966 L967 V968 F969 F970 D971 F972

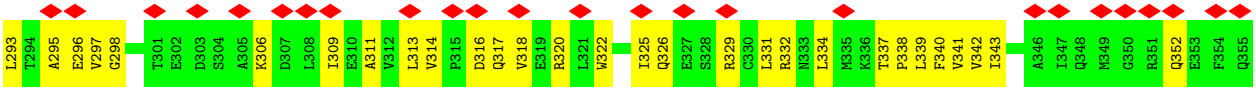


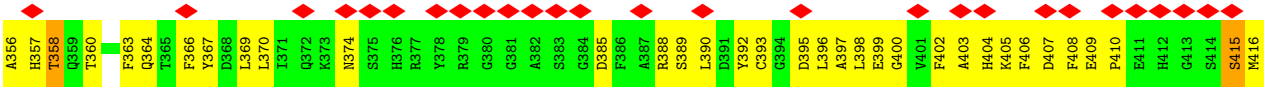
• Molecule 1: NLR family CARD domain-containing protein 4

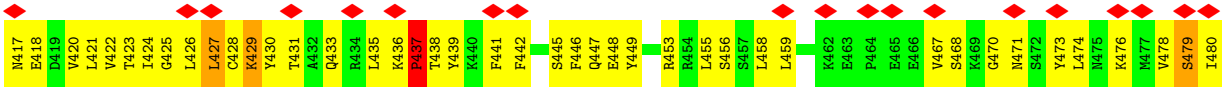


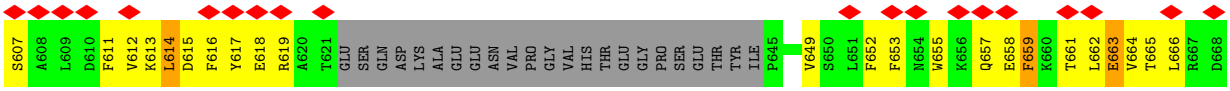


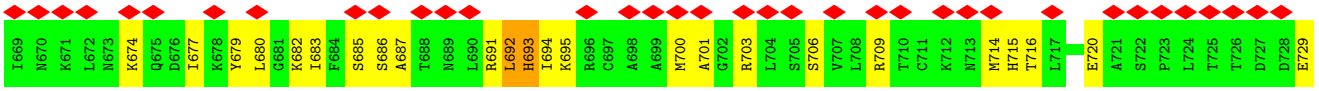


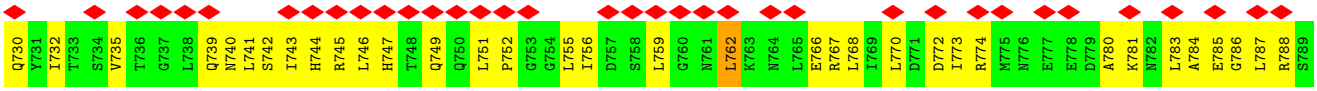


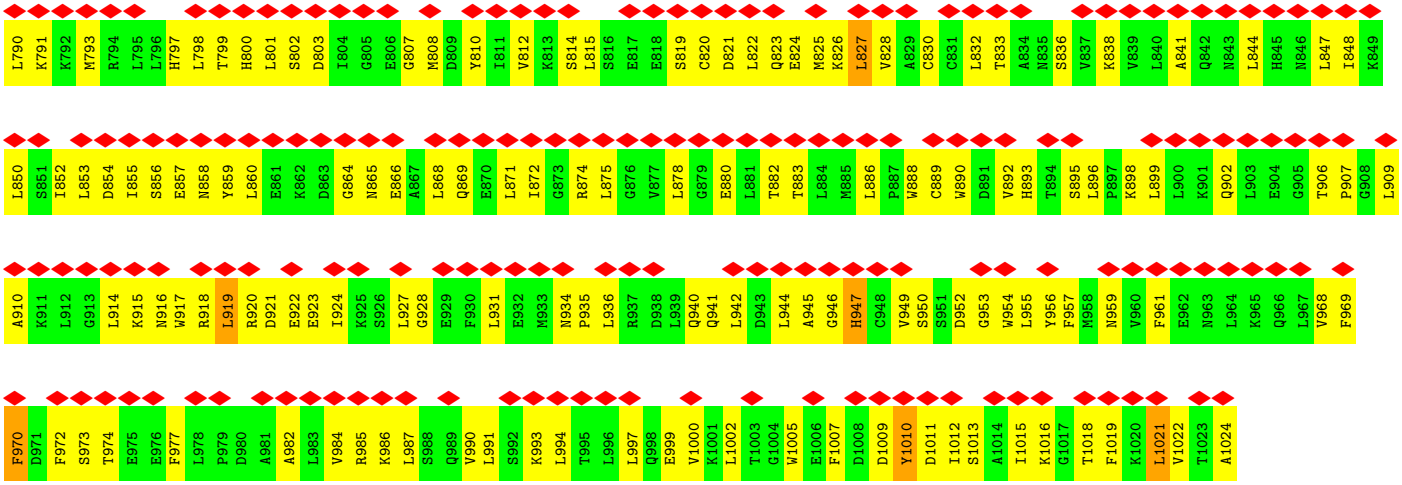






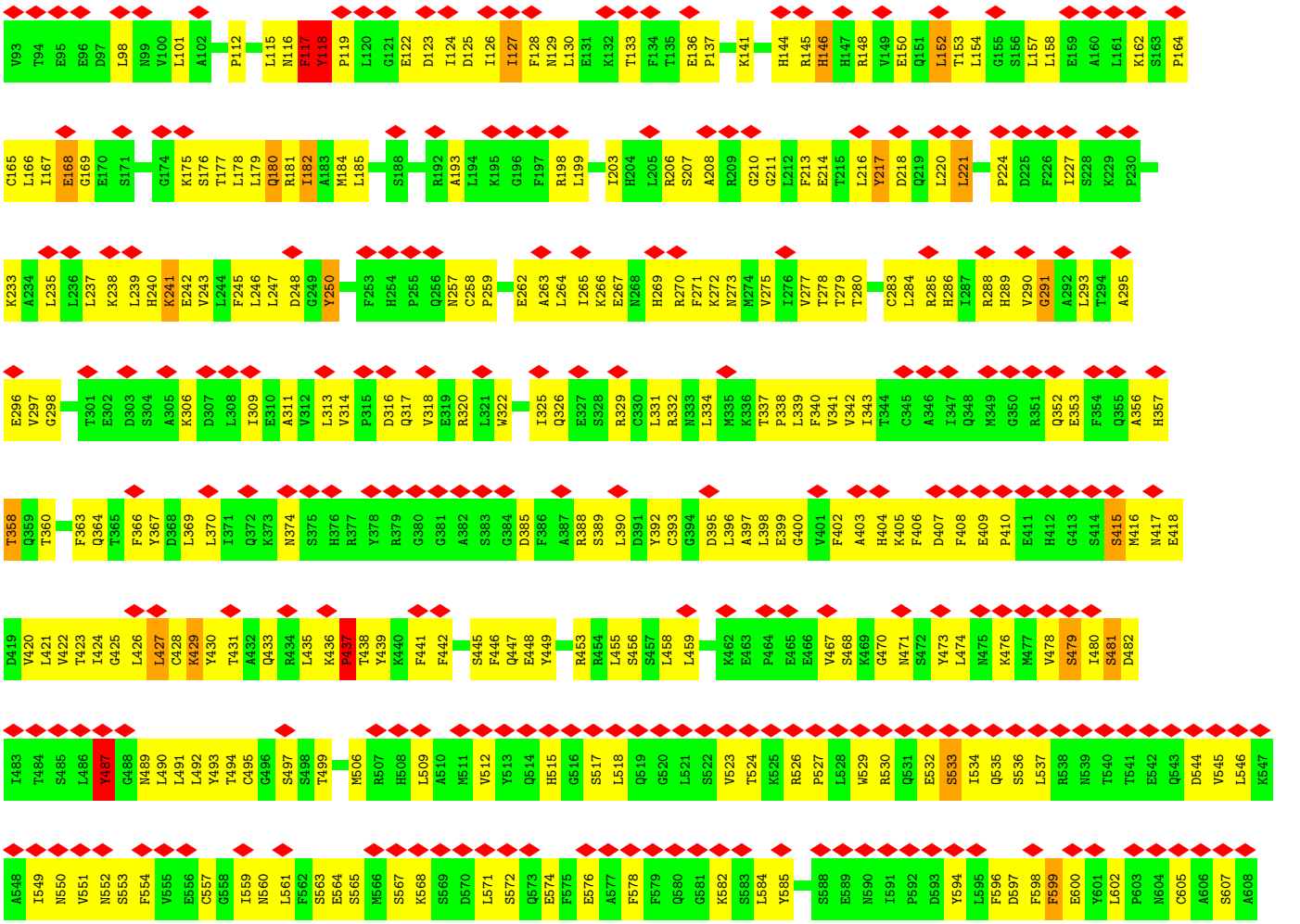


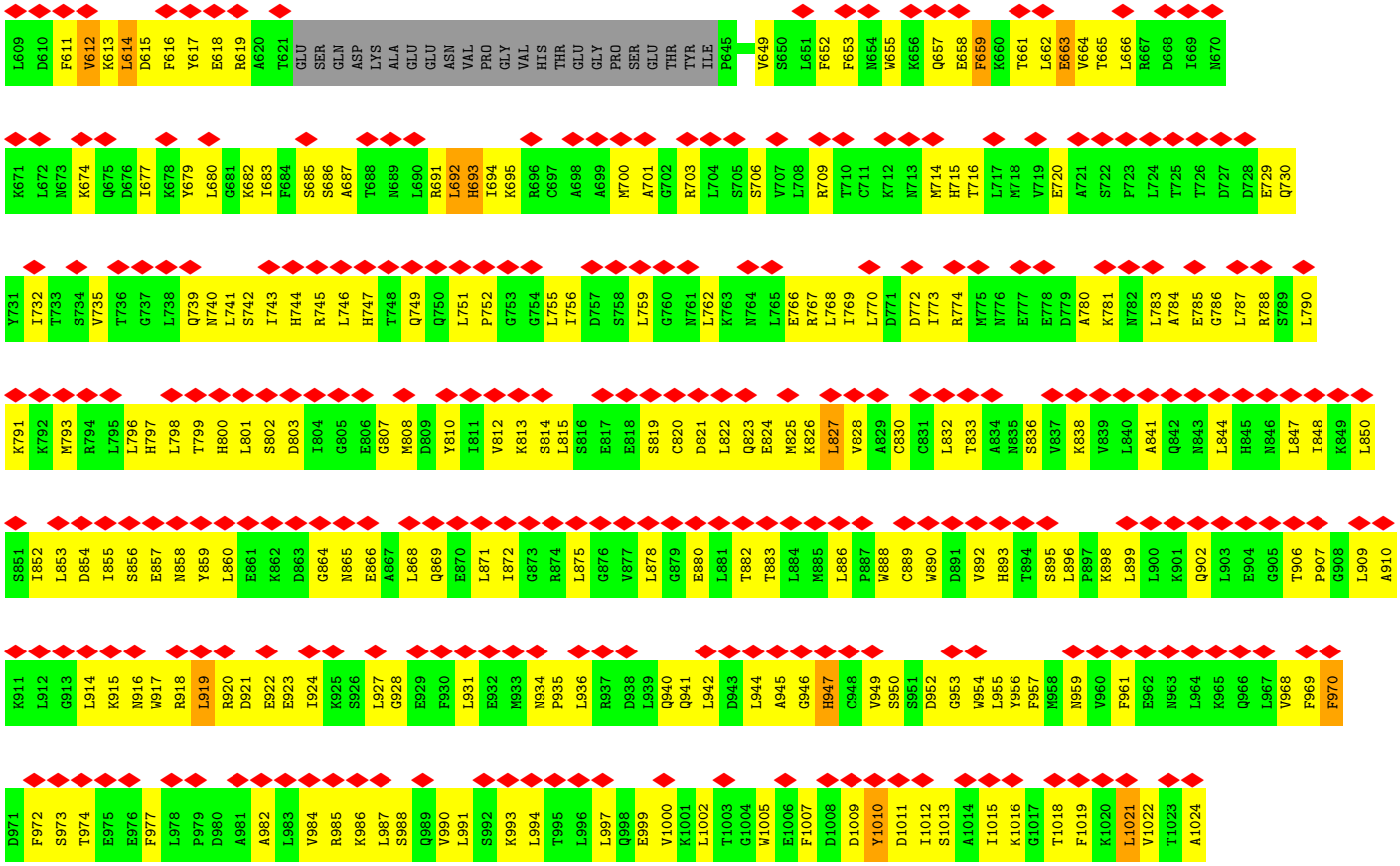




• Molecule 1: NLR family CARD domain-containing protein 4

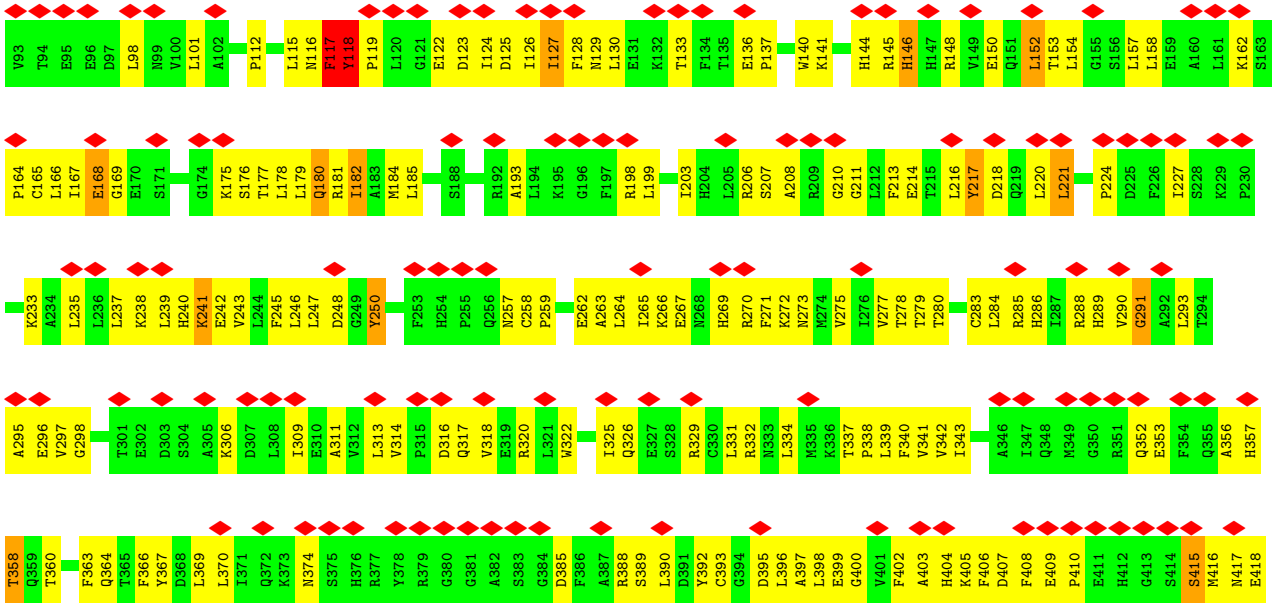
Chain E:

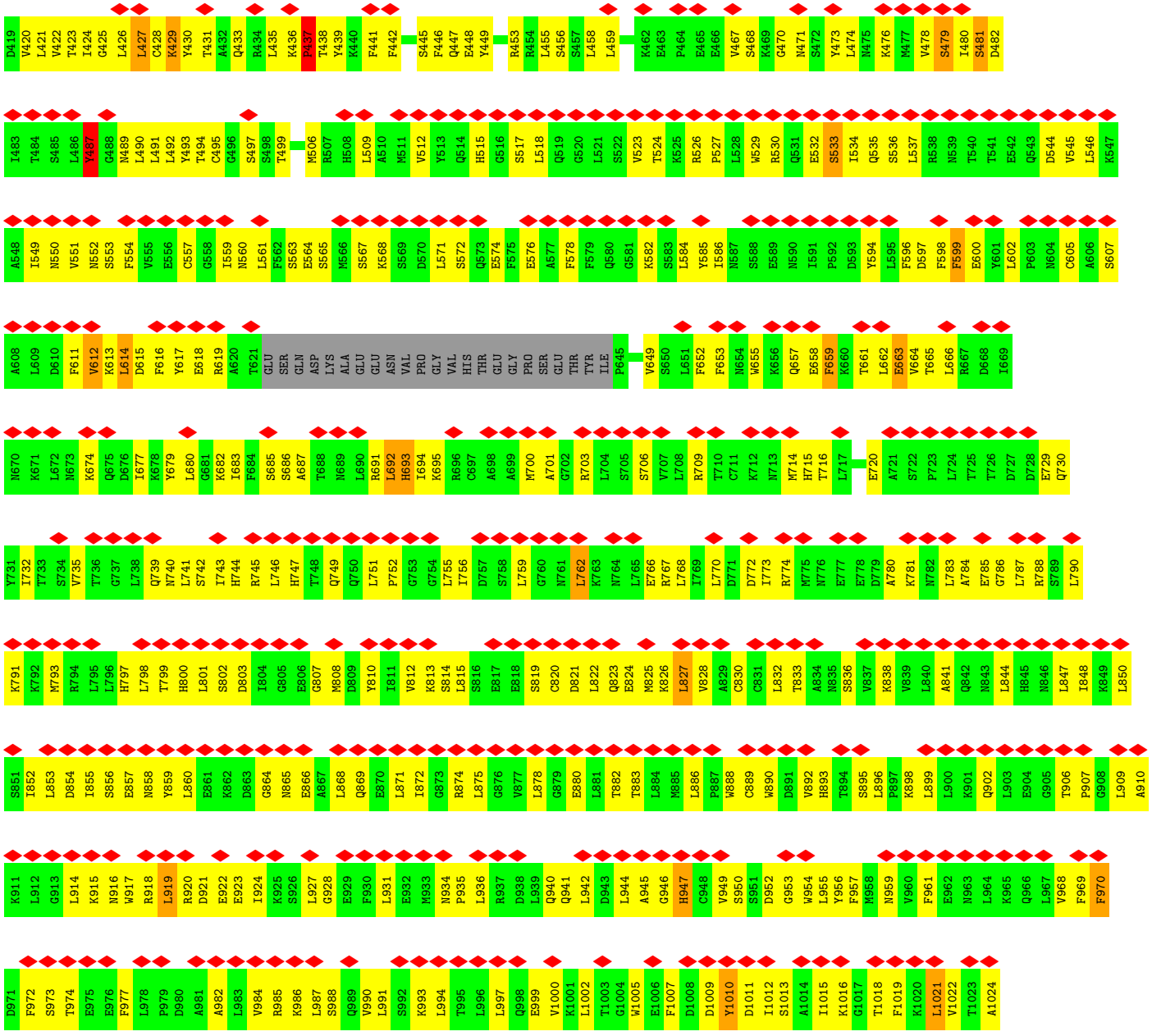




• Molecule 1: NLR family CARD domain-containing protein 4

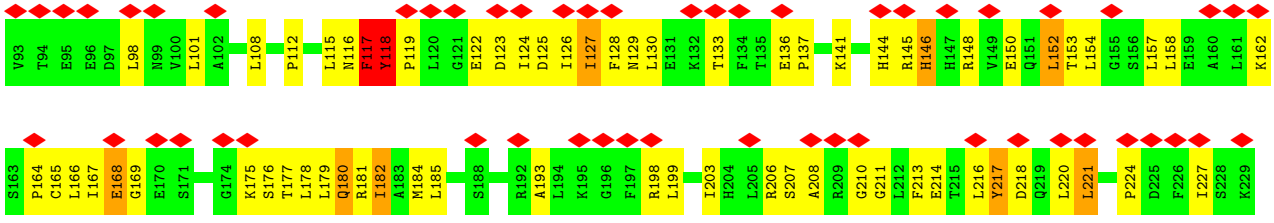
Chain F:

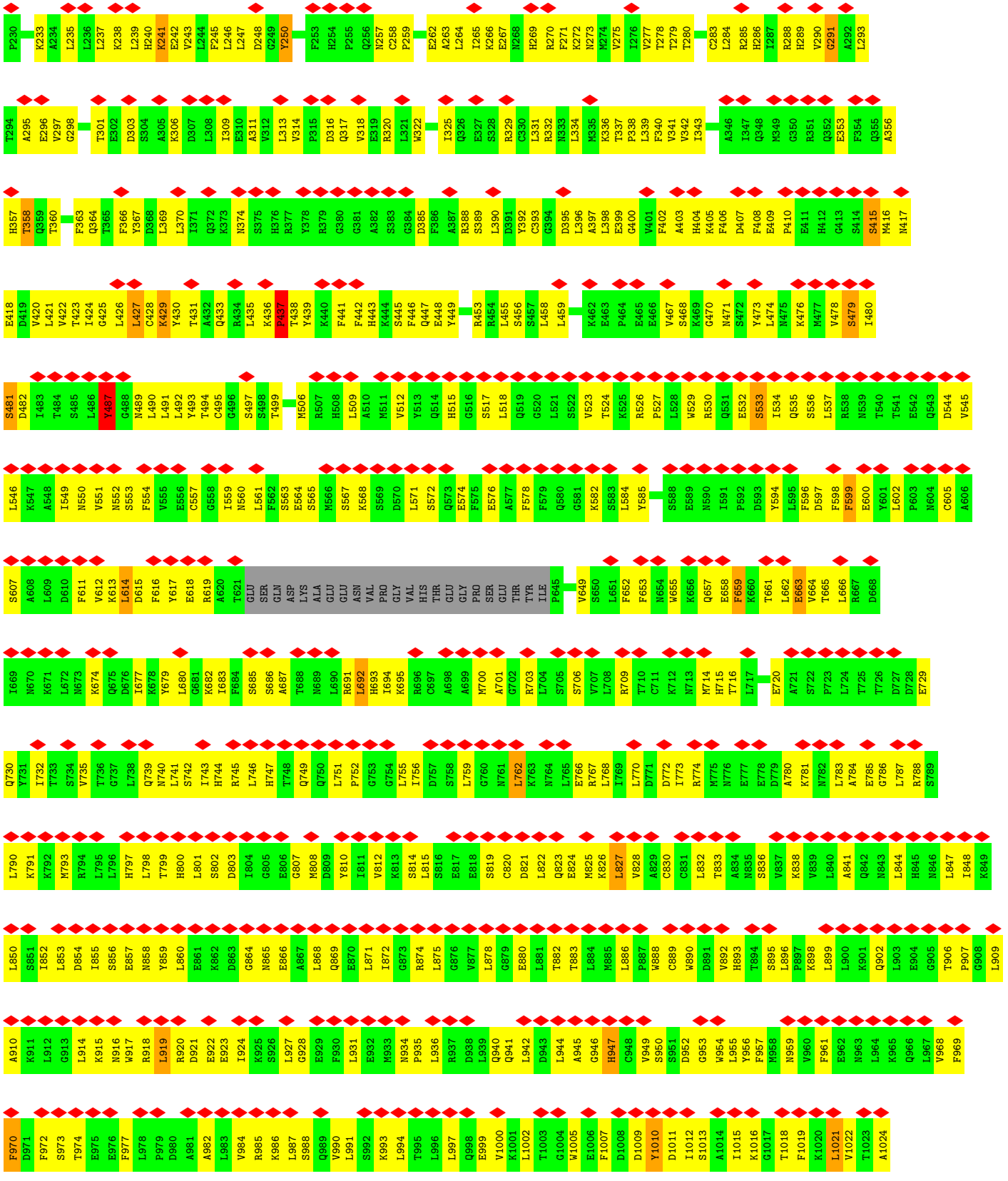




• Molecule 1: NLR family CARD domain-containing protein 4

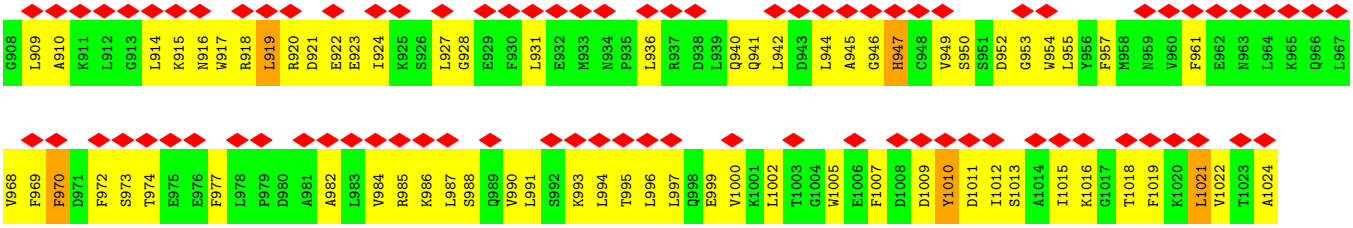
Chain G:





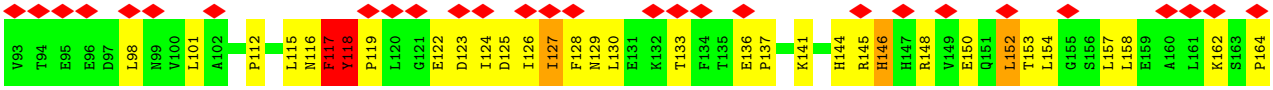
• Molecule 1: NLR family CARD domain-containing protein 4

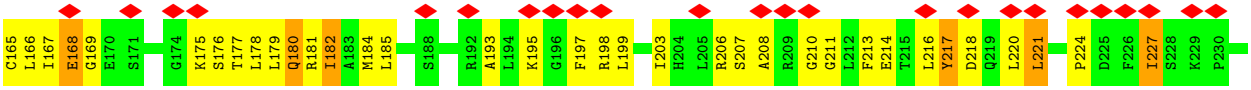
Chain H:

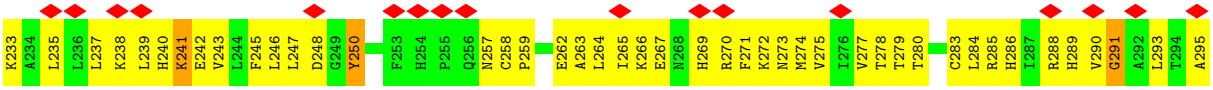


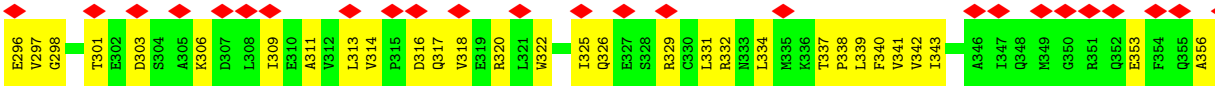
• Molecule 1: NLR family CARD domain-containing protein 4

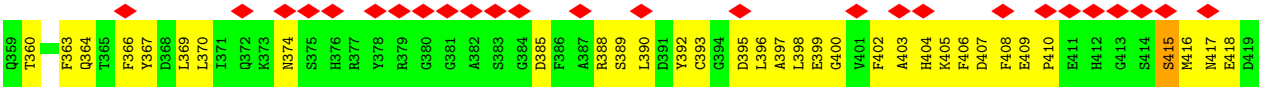
Chain I:

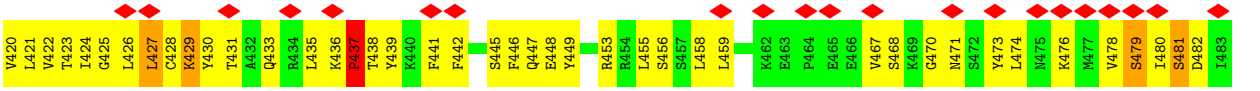


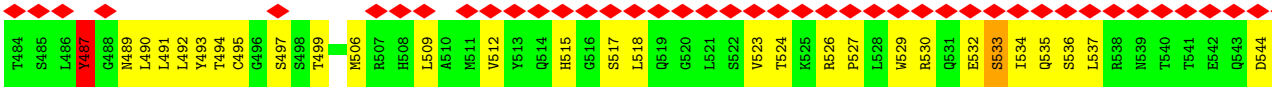


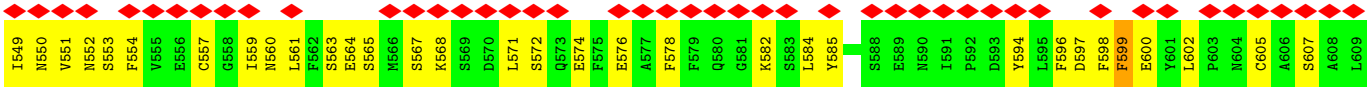


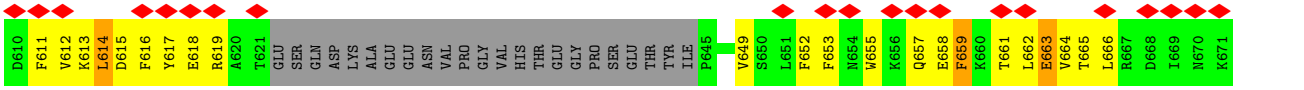


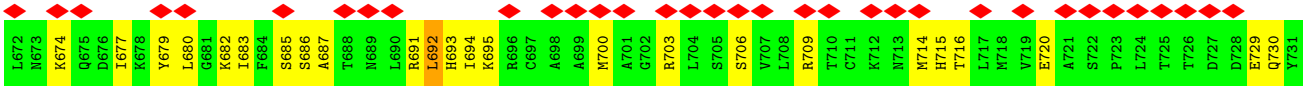


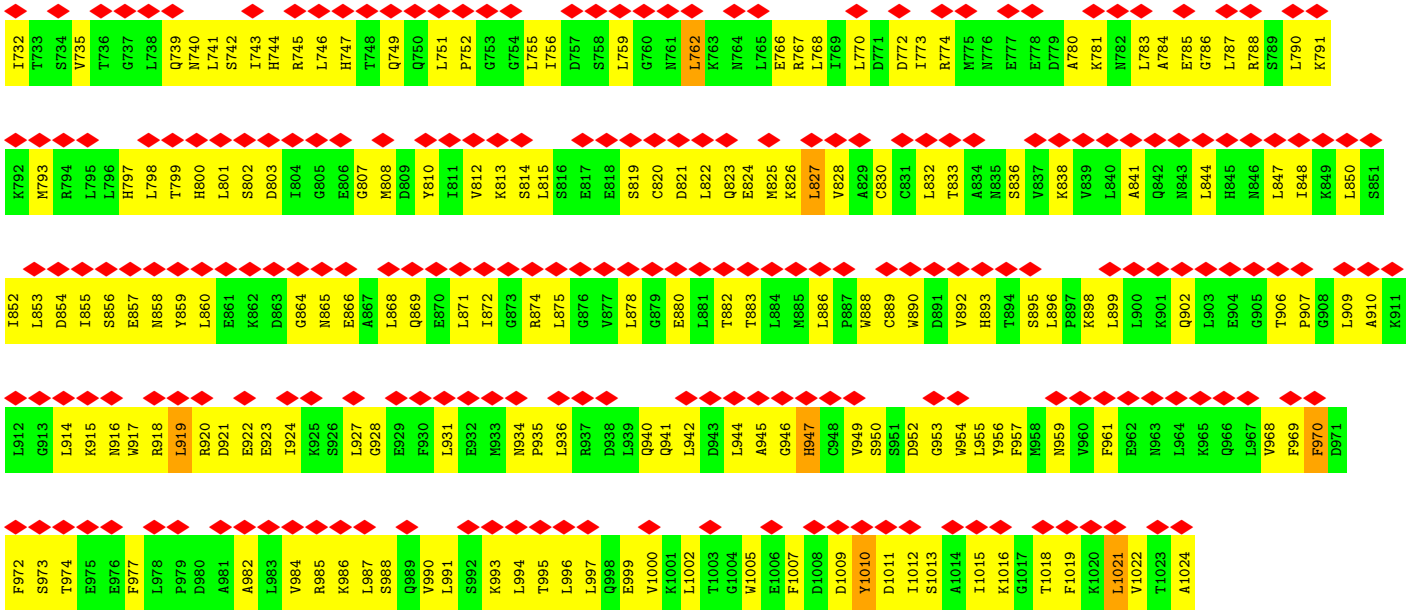




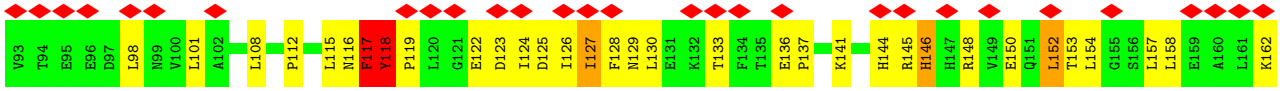


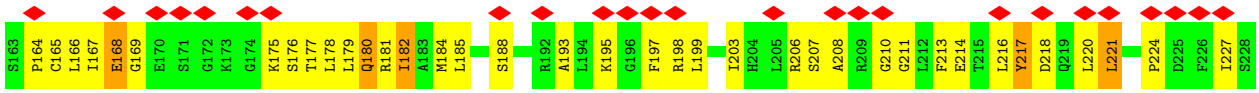


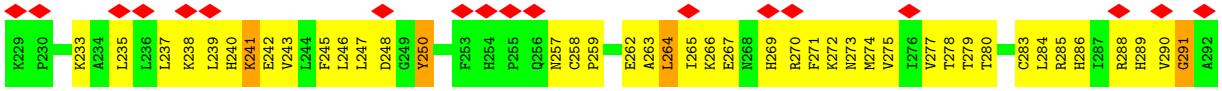


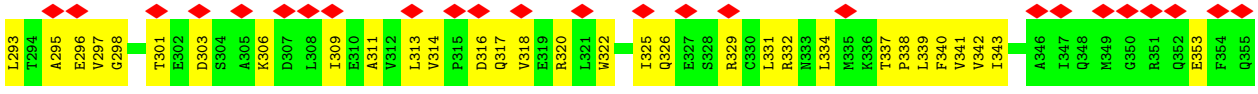


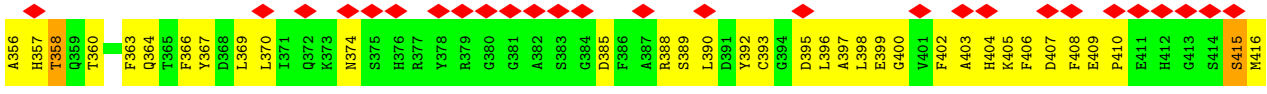
• Molecule 1: NLR family CARD domain-containing protein 4

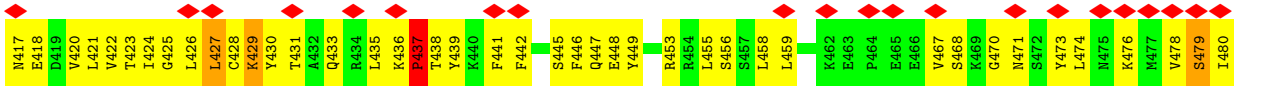


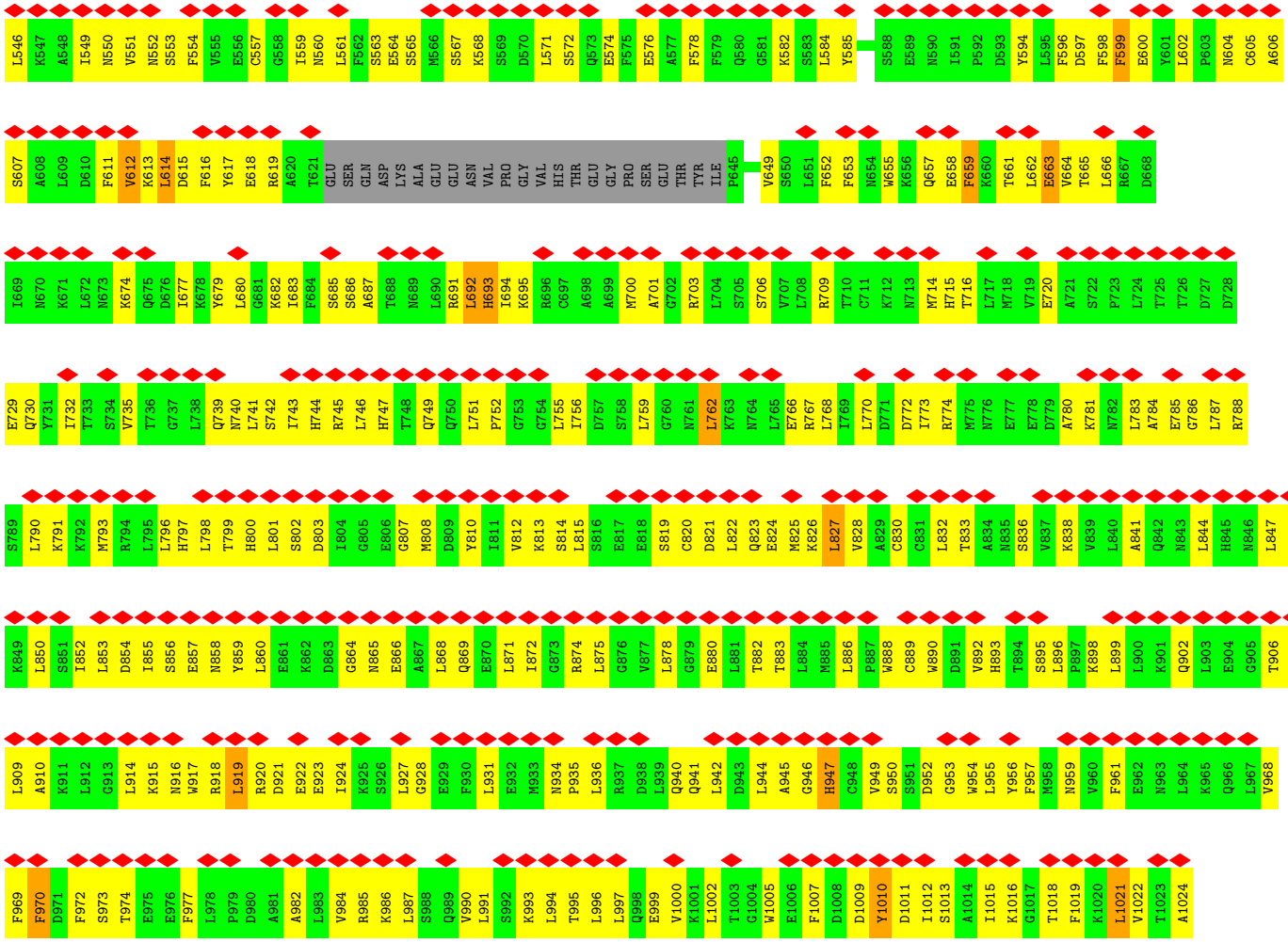








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S607 A608 L609 D610 F611 V612 K613 L614 D615 F616 Y617 E618 R619 A620 T621 GLU SER GLN ASP LYS ALA GLU GLU ASN VAL PRO GLY VAL HIS THR GLU GLY PRO SER GLU THR TYR ILE P645 V649 S650 L651 F652 F653 N654 W655 K656 Q657 E658 F659 K660 T661 L662 E663 V664 T665 L666 R667 D668
I669 N670 K671 L672 N673 K674 Q675 D676 I677 K678 Y679 L680 G681 K682 I683 F684 S685 S686 A687 T688 N689 L690 R691 L692 H693 I694 K695 R696 C697 A698 A699 M700 A701 G702 R703 L704 S705 S706 V707 L708 R709 T710 C711 K712 N713 M714 H715 T716 L717 M718 V719 E720 A721 S722 P723 L724 T725 T726 D727 D728
E729 Q730 Y731 I732 T733 S734 V735 T736 G737 L738 Q739 N740 L741 S742 I743 H744 R745 L746 H747 T748 Q749 Q750 L751 P752 G753 G754 L755 I756 D757 S758 L759 G760 N761 L762 K763 N764 L765 E766 R767 L768 I769 L770 D771 D772 I773 R774 M775 N776 E777 E778 D779 A780 K781 N782 L783 A784 E785 G786 L787 R788
S789 L790 K791 K792 M793 R794 L795 L796 H797 L798 T799 H800 L801 S802 D803 I804 G805 E806 G807 M808 D809 Y810 I811 V812 K813 S814 L815 S816 E817 E818 S819 C820 D821 L822 Q823 E824 M825 K826 L827 V828 A829 C830 C831 L832 T833 A834 N835 S836 V837 K838 V839 L840 A841 Q842 N843 L844 H845 N846 L847 I848
K849 L850 S851 I852 L853 D854 I855 S856 E857 N858 Y859 L860 E861 K862 D863 G864 N865 E866 A867 L868 Q869 E870 L871 I872 G873 R874 L875 G876 V877 L878 G879 E880 L881 T882 T883 L884 M885 L886 P887 W888 C889 W890 D891 V892 H893 T894 S895 L896 P897 K898 L899 L900 K901 Q902 L903 E904 G905 T906 P907 G908
L909 A910 K911 L912 G913 L914 K915 N916 W917 R918 L919 R920 D921 E922 E923 I924 K925 S926 L927 G928 E929 F930 L931 E932 M933 N934 P935 L936 R937 D938 L939 Q940 Q941 L942 D943 L944 A945 G946 H947 C948 V949 S950 S951 D952 G953 W954 L955 Y956 F957 M958 N959 V960 F961 E962 N963 L964 K965 Q966 L967 V968
F969 F970 D971 F972 S973 T974 E975 E976 F977 L978 P979 D980 A981 A982 L983 V984 R985 K986 L987 S988 Q989 V990 L991 S992 K993 L994 T995 L996 L997 Q998 E999 V1000 K1001 L1002 T1003 G1004 W1005 E1006 F1007 D1008 D1009 Y1010 D1011 I1012 S1013 A1014 I1015 K1016 G1017 T1018 F1019 K1020 L1021 V1022 T1023 A1024

4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, C11	Depositor
Number of particles used	75114	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	Wiener-type filter	Depositor
Microscope	FEI TECNAI ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	48	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	28736	Depositor
Image detector	GATAN K2 (4k x 4k)	Depositor
Maximum map value	0.012	Depositor
Minimum map value	-0.008	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.001	Depositor
Recommended contour level	0.0045	Depositor
Map size (Å)	385.28, 385.28, 385.28	wwPDB
Map dimensions	448, 448, 448	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	0.86, 0.86, 0.86	Depositor

5 Model quality

5.1 Standard geometry

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

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	0.37	0/7412	0.93	18/10004 (0.2%)
1	B	0.37	0/7412	0.93	18/10004 (0.2%)
1	C	0.37	0/7412	0.93	18/10004 (0.2%)
1	D	0.37	0/7412	0.93	18/10004 (0.2%)
1	E	0.37	0/7412	0.93	18/10004 (0.2%)
1	F	0.37	0/7412	0.93	18/10004 (0.2%)
1	G	0.37	0/7412	0.93	17/10004 (0.2%)
1	H	0.37	0/7412	0.93	18/10004 (0.2%)
1	I	0.37	0/7412	0.93	17/10004 (0.2%)
1	J	0.37	0/7412	0.93	18/10004 (0.2%)
1	K	0.37	0/7412	0.93	18/10004 (0.2%)
All	All	0.37	0/81532	0.93	196/110044 (0.2%)

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	2
1	B	0	2
1	C	0	2
1	D	0	2
1	E	0	2
1	F	0	2
1	G	0	2
1	H	0	2
1	I	0	2
1	J	0	2
1	K	0	2
All	All	0	22

There are no bond length outliers.

All (196) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	F	280	THR	N-CA-C	-8.11	89.11	111.00
1	G	280	THR	N-CA-C	-8.11	89.11	111.00
1	K	280	THR	N-CA-C	-8.10	89.12	111.00
1	B	280	THR	N-CA-C	-8.10	89.12	111.00
1	C	280	THR	N-CA-C	-8.10	89.13	111.00
1	A	280	THR	N-CA-C	-8.10	89.13	111.00
1	D	280	THR	N-CA-C	-8.10	89.13	111.00
1	H	280	THR	N-CA-C	-8.10	89.13	111.00
1	I	280	THR	N-CA-C	-8.10	89.14	111.00
1	J	280	THR	N-CA-C	-8.10	89.14	111.00
1	E	280	THR	N-CA-C	-8.09	89.16	111.00
1	A	427	LEU	CA-CB-CG	7.86	133.38	115.30
1	F	427	LEU	CA-CB-CG	7.85	133.36	115.30
1	G	427	LEU	CA-CB-CG	7.85	133.35	115.30
1	C	427	LEU	CA-CB-CG	7.85	133.35	115.30
1	I	427	LEU	CA-CB-CG	7.85	133.35	115.30
1	H	427	LEU	CA-CB-CG	7.84	133.34	115.30
1	K	427	LEU	CA-CB-CG	7.84	133.34	115.30
1	B	427	LEU	CA-CB-CG	7.84	133.33	115.30
1	D	427	LEU	CA-CB-CG	7.84	133.33	115.30
1	E	427	LEU	CA-CB-CG	7.83	133.32	115.30
1	J	427	LEU	CA-CB-CG	7.83	133.31	115.30
1	D	178	LEU	CA-CB-CG	7.18	131.82	115.30
1	E	178	LEU	CA-CB-CG	7.18	131.81	115.30
1	J	178	LEU	CA-CB-CG	7.18	131.81	115.30
1	H	178	LEU	CA-CB-CG	7.17	131.80	115.30
1	K	178	LEU	CA-CB-CG	7.17	131.79	115.30
1	F	178	LEU	CA-CB-CG	7.16	131.77	115.30
1	A	178	LEU	CA-CB-CG	7.16	131.76	115.30
1	B	178	LEU	CA-CB-CG	7.15	131.75	115.30
1	C	178	LEU	CA-CB-CG	7.15	131.75	115.30
1	G	178	LEU	CA-CB-CG	7.15	131.74	115.30
1	I	178	LEU	CA-CB-CG	7.15	131.74	115.30
1	C	942	LEU	N-CA-C	-7.02	92.05	111.00
1	G	942	LEU	N-CA-C	-7.02	92.05	111.00
1	D	942	LEU	N-CA-C	-7.01	92.07	111.00
1	A	942	LEU	N-CA-C	-7.01	92.08	111.00
1	B	942	LEU	N-CA-C	-7.01	92.08	111.00
1	E	942	LEU	N-CA-C	-7.01	92.08	111.00
1	J	942	LEU	N-CA-C	-7.01	92.08	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	K	942	LEU	N-CA-C	-7.00	92.09	111.00
1	F	942	LEU	N-CA-C	-7.00	92.10	111.00
1	I	942	LEU	N-CA-C	-7.00	92.11	111.00
1	H	942	LEU	N-CA-C	-7.00	92.11	111.00
1	H	942	LEU	CA-CB-CG	6.21	129.58	115.30
1	F	942	LEU	CA-CB-CG	6.21	129.58	115.30
1	C	942	LEU	CA-CB-CG	6.21	129.57	115.30
1	G	942	LEU	CA-CB-CG	6.20	129.56	115.30
1	E	942	LEU	CA-CB-CG	6.20	129.56	115.30
1	B	942	LEU	CA-CB-CG	6.20	129.55	115.30
1	K	942	LEU	CA-CB-CG	6.19	129.55	115.30
1	D	942	LEU	CA-CB-CG	6.19	129.54	115.30
1	A	942	LEU	CA-CB-CG	6.18	129.53	115.30
1	I	942	LEU	CA-CB-CG	6.18	129.52	115.30
1	J	942	LEU	CA-CB-CG	6.18	129.51	115.30
1	E	919	LEU	CA-CB-CG	6.14	129.42	115.30
1	D	919	LEU	CA-CB-CG	6.14	129.41	115.30
1	B	919	LEU	CA-CB-CG	6.13	129.41	115.30
1	G	919	LEU	CA-CB-CG	6.13	129.41	115.30
1	F	919	LEU	CA-CB-CG	6.13	129.40	115.30
1	K	919	LEU	CA-CB-CG	6.13	129.40	115.30
1	J	919	LEU	CA-CB-CG	6.13	129.39	115.30
1	A	919	LEU	CA-CB-CG	6.12	129.38	115.30
1	C	919	LEU	CA-CB-CG	6.12	129.37	115.30
1	I	919	LEU	CA-CB-CG	6.11	129.36	115.30
1	H	919	LEU	CA-CB-CG	6.11	129.35	115.30
1	C	280	THR	C-N-CA	-6.04	106.59	121.70
1	B	280	THR	C-N-CA	-6.03	106.63	121.70
1	D	280	THR	C-N-CA	-6.03	106.63	121.70
1	H	280	THR	C-N-CA	-6.03	106.63	121.70
1	K	280	THR	C-N-CA	-6.03	106.64	121.70
1	J	280	THR	C-N-CA	-6.02	106.65	121.70
1	A	280	THR	C-N-CA	-6.02	106.66	121.70
1	I	280	THR	C-N-CA	-6.02	106.66	121.70
1	F	280	THR	C-N-CA	-6.01	106.67	121.70
1	C	853	LEU	N-CA-C	-6.01	94.78	111.00
1	E	853	LEU	N-CA-C	-6.01	94.78	111.00
1	G	853	LEU	N-CA-C	-6.01	94.78	111.00
1	E	280	THR	C-N-CA	-6.00	106.69	121.70
1	G	280	THR	C-N-CA	-6.00	106.69	121.70
1	I	853	LEU	N-CA-C	-6.00	94.79	111.00
1	K	853	LEU	N-CA-C	-6.00	94.80	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	J	853	LEU	N-CA-C	-6.00	94.80	111.00
1	D	853	LEU	N-CA-C	-6.00	94.81	111.00
1	A	853	LEU	N-CA-C	-6.00	94.81	111.00
1	F	853	LEU	N-CA-C	-6.00	94.81	111.00
1	B	853	LEU	N-CA-C	-5.99	94.83	111.00
1	H	853	LEU	N-CA-C	-5.99	94.84	111.00
1	C	291	GLY	N-CA-C	5.91	127.88	113.10
1	B	291	GLY	N-CA-C	5.91	127.88	113.10
1	I	291	GLY	N-CA-C	5.91	127.87	113.10
1	G	291	GLY	N-CA-C	5.91	127.87	113.10
1	F	291	GLY	N-CA-C	5.90	127.85	113.10
1	K	291	GLY	N-CA-C	5.90	127.84	113.10
1	A	291	GLY	N-CA-C	5.89	127.84	113.10
1	D	291	GLY	N-CA-C	5.89	127.83	113.10
1	E	291	GLY	N-CA-C	5.89	127.82	113.10
1	H	291	GLY	N-CA-C	5.88	127.81	113.10
1	J	291	GLY	N-CA-C	5.88	127.79	113.10
1	J	429	LYS	N-CA-C	5.80	126.65	111.00
1	F	429	LYS	N-CA-C	5.79	126.64	111.00
1	E	429	LYS	N-CA-C	5.78	126.61	111.00
1	G	429	LYS	N-CA-C	5.78	126.62	111.00
1	I	429	LYS	N-CA-C	5.78	126.62	111.00
1	K	429	LYS	N-CA-C	5.78	126.60	111.00
1	A	429	LYS	N-CA-C	5.78	126.60	111.00
1	B	429	LYS	N-CA-C	5.78	126.60	111.00
1	C	429	LYS	N-CA-C	5.77	126.59	111.00
1	D	429	LYS	N-CA-C	5.77	126.58	111.00
1	H	429	LYS	N-CA-C	5.77	126.58	111.00
1	J	474	LEU	CA-CB-CG	5.68	128.37	115.30
1	H	474	LEU	CA-CB-CG	5.67	128.33	115.30
1	A	474	LEU	CA-CB-CG	5.66	128.32	115.30
1	K	474	LEU	CA-CB-CG	5.66	128.31	115.30
1	G	474	LEU	CA-CB-CG	5.66	128.32	115.30
1	F	474	LEU	CA-CB-CG	5.66	128.31	115.30
1	C	474	LEU	CA-CB-CG	5.65	128.30	115.30
1	B	474	LEU	CA-CB-CG	5.65	128.30	115.30
1	D	474	LEU	CA-CB-CG	5.65	128.29	115.30
1	E	474	LEU	CA-CB-CG	5.65	128.29	115.30
1	I	474	LEU	CA-CB-CG	5.65	128.29	115.30
1	C	180	GLN	N-CA-C	-5.64	95.77	111.00
1	F	180	GLN	N-CA-C	-5.64	95.78	111.00
1	E	180	GLN	N-CA-C	-5.63	95.79	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	B	180	GLN	N-CA-C	-5.63	95.80	111.00
1	K	180	GLN	N-CA-C	-5.62	95.81	111.00
1	H	180	GLN	N-CA-C	-5.62	95.81	111.00
1	I	180	GLN	N-CA-C	-5.62	95.83	111.00
1	G	180	GLN	N-CA-C	-5.62	95.83	111.00
1	J	180	GLN	N-CA-C	-5.62	95.83	111.00
1	D	180	GLN	N-CA-C	-5.62	95.84	111.00
1	A	180	GLN	N-CA-C	-5.61	95.84	111.00
1	J	491	LEU	CA-CB-CG	5.45	127.83	115.30
1	E	491	LEU	CA-CB-CG	5.44	127.81	115.30
1	D	491	LEU	CA-CB-CG	5.43	127.80	115.30
1	F	491	LEU	CA-CB-CG	5.43	127.80	115.30
1	G	491	LEU	CA-CB-CG	5.43	127.79	115.30
1	A	491	LEU	CA-CB-CG	5.43	127.79	115.30
1	K	491	LEU	CA-CB-CG	5.43	127.78	115.30
1	H	491	LEU	CA-CB-CG	5.43	127.78	115.30
1	B	491	LEU	CA-CB-CG	5.42	127.78	115.30
1	I	491	LEU	CA-CB-CG	5.42	127.77	115.30
1	C	491	LEU	CA-CB-CG	5.42	127.76	115.30
1	B	612	VAL	N-CA-C	-5.38	96.46	111.00
1	D	612	VAL	N-CA-C	-5.38	96.47	111.00
1	E	612	VAL	N-CA-C	-5.38	96.47	111.00
1	G	612	VAL	N-CA-C	-5.38	96.47	111.00
1	I	612	VAL	N-CA-C	-5.38	96.47	111.00
1	K	612	VAL	N-CA-C	-5.38	96.48	111.00
1	H	612	VAL	N-CA-C	-5.38	96.48	111.00
1	C	612	VAL	N-CA-C	-5.37	96.50	111.00
1	F	612	VAL	N-CA-C	-5.37	96.50	111.00
1	J	612	VAL	N-CA-C	-5.37	96.51	111.00
1	A	612	VAL	N-CA-C	-5.36	96.52	111.00
1	D	692	LEU	N-CA-C	5.26	125.20	111.00
1	G	692	LEU	N-CA-C	5.25	125.19	111.00
1	E	692	LEU	N-CA-C	5.25	125.18	111.00
1	H	692	LEU	N-CA-C	5.25	125.18	111.00
1	F	692	LEU	N-CA-C	5.25	125.18	111.00
1	B	692	LEU	N-CA-C	5.25	125.17	111.00
1	K	692	LEU	N-CA-C	5.25	125.17	111.00
1	I	692	LEU	N-CA-C	5.25	125.17	111.00
1	J	692	LEU	N-CA-C	5.25	125.17	111.00
1	A	692	LEU	N-CA-C	5.24	125.16	111.00
1	C	692	LEU	N-CA-C	5.24	125.15	111.00
1	J	827	LEU	CA-CB-CG	5.18	127.21	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	827	LEU	CA-CB-CG	5.17	127.20	115.30
1	B	827	LEU	CA-CB-CG	5.16	127.18	115.30
1	D	827	LEU	CA-CB-CG	5.16	127.17	115.30
1	K	827	LEU	CA-CB-CG	5.16	127.17	115.30
1	A	827	LEU	CA-CB-CG	5.16	127.16	115.30
1	F	827	LEU	CA-CB-CG	5.16	127.16	115.30
1	C	827	LEU	CA-CB-CG	5.15	127.15	115.30
1	H	827	LEU	CA-CB-CG	5.15	127.15	115.30
1	I	827	LEU	CA-CB-CG	5.15	127.14	115.30
1	G	827	LEU	CA-CB-CG	5.14	127.13	115.30
1	B	487	TYR	CA-CB-CG	5.05	123.00	113.40
1	C	487	TYR	CA-CB-CG	5.05	122.99	113.40
1	A	487	TYR	CA-CB-CG	5.04	122.98	113.40
1	B	693	HIS	N-CA-CB	5.04	119.67	110.60
1	I	487	TYR	CA-CB-CG	5.04	122.98	113.40
1	F	487	TYR	CA-CB-CG	5.04	122.98	113.40
1	H	487	TYR	CA-CB-CG	5.04	122.97	113.40
1	K	487	TYR	CA-CB-CG	5.04	122.97	113.40
1	H	693	HIS	N-CA-CB	5.03	119.66	110.60
1	J	487	TYR	CA-CB-CG	5.03	122.96	113.40
1	D	487	TYR	CA-CB-CG	5.03	122.95	113.40
1	J	693	HIS	N-CA-CB	5.03	119.65	110.60
1	A	693	HIS	N-CA-CB	5.02	119.64	110.60
1	K	693	HIS	N-CA-CB	5.02	119.64	110.60
1	E	487	TYR	CA-CB-CG	5.02	122.94	113.40
1	G	487	TYR	CA-CB-CG	5.02	122.94	113.40
1	C	693	HIS	N-CA-CB	5.01	119.62	110.60
1	E	693	HIS	N-CA-CB	5.01	119.62	110.60
1	D	693	HIS	N-CA-CB	5.01	119.62	110.60
1	F	693	HIS	N-CA-CB	5.01	119.62	110.60

There are no chirality outliers.

All (22) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	117	PHE	Peptide
1	A	441	PHE	Peptide
1	B	117	PHE	Peptide
1	B	441	PHE	Peptide
1	C	117	PHE	Peptide
1	C	441	PHE	Peptide
1	D	117	PHE	Peptide

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Mol	Chain	Res	Type	Group
1	D	441	PHE	Peptide
1	E	117	PHE	Peptide
1	E	441	PHE	Peptide
1	F	117	PHE	Peptide
1	F	441	PHE	Peptide
1	G	117	PHE	Peptide
1	G	441	PHE	Peptide
1	H	117	PHE	Peptide
1	H	441	PHE	Peptide
1	I	117	PHE	Peptide
1	I	441	PHE	Peptide
1	J	117	PHE	Peptide
1	J	441	PHE	Peptide
1	K	117	PHE	Peptide
1	K	441	PHE	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	7284	0	7329	442	0
1	B	7284	0	7329	440	0
1	C	7284	0	7329	440	0
1	D	7284	0	7329	442	0
1	E	7284	0	7329	437	0
1	F	7284	0	7329	442	0
1	G	7284	0	7329	436	0
1	H	7284	0	7329	444	0
1	I	7284	0	7329	442	0
1	J	7284	0	7329	457	0
1	K	7284	0	7329	454	0
All	All	80124	0	80619	4740	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 29.

All (4740) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:125:ASP:H	1:J:433:GLN:HG2	1.28	0.95
1:A:433:GLN:HG2	1:B:125:ASP:H	1.33	0.94
1:F:433:GLN:HG2	1:G:125:ASP:H	1.33	0.93
1:G:433:GLN:HG2	1:H:125:ASP:H	1.33	0.93
1:D:433:GLN:HG2	1:E:125:ASP:H	1.34	0.93
1:E:433:GLN:HG2	1:F:125:ASP:H	1.33	0.93
1:B:433:GLN:HG2	1:C:125:ASP:H	1.35	0.92
1:C:399:GLU:HA	1:C:402:PHE:HB2	1.52	0.92
1:A:399:GLU:HA	1:A:402:PHE:HB2	1.52	0.92
1:E:399:GLU:HA	1:E:402:PHE:HB2	1.52	0.92
1:H:433:GLN:HG2	1:I:125:ASP:H	1.33	0.92
1:I:433:GLN:HG2	1:J:125:ASP:H	1.33	0.91
1:C:433:GLN:HG2	1:D:125:ASP:H	1.33	0.91
1:J:399:GLU:HA	1:J:402:PHE:HB2	1.52	0.91
1:G:399:GLU:HA	1:G:402:PHE:HB2	1.52	0.90
1:C:607:SER:HB3	1:C:655:TRP:HZ2	1.37	0.89
1:A:607:SER:HB3	1:A:655:TRP:HZ2	1.37	0.89
1:F:607:SER:HB3	1:F:655:TRP:HZ2	1.38	0.89
1:K:399:GLU:HA	1:K:402:PHE:HB2	1.52	0.89
1:H:399:GLU:HA	1:H:402:PHE:HB2	1.52	0.89
1:B:399:GLU:HA	1:B:402:PHE:HB2	1.52	0.89
1:D:399:GLU:HA	1:D:402:PHE:HB2	1.52	0.89
1:F:399:GLU:HA	1:F:402:PHE:HB2	1.52	0.89
1:B:117:PHE:CZ	1:B:176:SER:HB2	2.08	0.89
1:I:399:GLU:HA	1:I:402:PHE:HB2	1.52	0.89
1:A:117:PHE:CZ	1:A:176:SER:HB2	2.08	0.89
1:E:117:PHE:CZ	1:E:176:SER:HB2	2.08	0.89
1:H:607:SER:HB3	1:H:655:TRP:HZ2	1.38	0.89
1:H:117:PHE:CZ	1:H:176:SER:HB2	2.08	0.89
1:G:117:PHE:CZ	1:G:176:SER:HB2	2.08	0.89
1:J:607:SER:HB3	1:J:655:TRP:HZ2	1.37	0.89
1:J:117:PHE:CZ	1:J:176:SER:HB2	2.08	0.89
1:E:607:SER:HB3	1:E:655:TRP:HZ2	1.38	0.88
1:D:117:PHE:CZ	1:D:176:SER:HB2	2.08	0.88
1:K:117:PHE:CZ	1:K:176:SER:HB2	2.08	0.88
1:C:117:PHE:CZ	1:C:176:SER:HB2	2.08	0.88
1:I:607:SER:HB3	1:I:655:TRP:HZ2	1.37	0.88
1:D:607:SER:HB3	1:D:655:TRP:HZ2	1.38	0.88
1:K:607:SER:HB3	1:K:655:TRP:HZ2	1.37	0.88
1:C:916:ASN:H	1:C:945:ALA:HB3	1.39	0.88
1:F:117:PHE:CZ	1:F:176:SER:HB2	2.08	0.88
1:D:916:ASN:H	1:D:945:ALA:HB3	1.39	0.88

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:916:ASN:H	1:B:945:ALA:HB3	1.39	0.87
1:G:607:SER:HB3	1:G:655:TRP:HZ2	1.37	0.87
1:D:866:GLU:OE1	1:D:898:LYS:NZ	2.08	0.87
1:I:117:PHE:CZ	1:I:176:SER:HB2	2.08	0.87
1:C:866:GLU:OE1	1:C:898:LYS:NZ	2.08	0.87
1:B:607:SER:HB3	1:B:655:TRP:HZ2	1.38	0.87
1:A:916:ASN:H	1:A:945:ALA:HB3	1.39	0.87
1:E:866:GLU:OE1	1:E:898:LYS:NZ	2.08	0.87
1:E:916:ASN:H	1:E:945:ALA:HB3	1.39	0.87
1:H:364:GLN:HA	1:H:367:TYR:HD2	1.40	0.87
1:K:364:GLN:HA	1:K:367:TYR:HD2	1.40	0.87
1:B:866:GLU:OE1	1:B:898:LYS:NZ	2.08	0.87
1:G:916:ASN:H	1:G:945:ALA:HB3	1.39	0.87
1:B:364:GLN:HA	1:B:367:TYR:HD2	1.40	0.86
1:K:916:ASN:H	1:K:945:ALA:HB3	1.39	0.86
1:A:364:GLN:HA	1:A:367:TYR:HD2	1.40	0.86
1:J:916:ASN:H	1:J:945:ALA:HB3	1.39	0.86
1:D:117:PHE:HZ	1:D:176:SER:HB2	1.41	0.86
1:I:916:ASN:H	1:I:945:ALA:HB3	1.39	0.86
1:G:364:GLN:HA	1:G:367:TYR:HD2	1.40	0.86
1:F:916:ASN:H	1:F:945:ALA:HB3	1.40	0.86
1:H:916:ASN:H	1:H:945:ALA:HB3	1.39	0.86
1:I:117:PHE:HZ	1:I:176:SER:HB2	1.41	0.86
1:B:117:PHE:HZ	1:B:176:SER:HB2	1.41	0.86
1:D:364:GLN:HA	1:D:367:TYR:HD2	1.40	0.86
1:E:364:GLN:HA	1:E:367:TYR:HD2	1.40	0.86
1:J:364:GLN:HA	1:J:367:TYR:HD2	1.40	0.86
1:K:117:PHE:HZ	1:K:176:SER:HB2	1.41	0.86
1:A:866:GLU:OE1	1:A:898:LYS:NZ	2.08	0.86
1:F:866:GLU:OE1	1:F:898:LYS:NZ	2.08	0.86
1:I:866:GLU:OE1	1:I:898:LYS:NZ	2.08	0.86
1:B:784:ALA:HB1	1:B:814:SER:HB2	1.58	0.86
1:K:653:PHE:HB3	1:J:1015:ILE:HG21	1.56	0.85
1:G:866:GLU:OE1	1:G:898:LYS:NZ	2.08	0.85
1:H:866:GLU:OE1	1:H:898:LYS:NZ	2.08	0.85
1:I:364:GLN:HA	1:I:367:TYR:HD2	1.40	0.85
1:J:866:GLU:OE1	1:J:898:LYS:NZ	2.08	0.85
1:H:117:PHE:HZ	1:H:176:SER:HB2	1.41	0.85
1:A:784:ALA:HB1	1:A:814:SER:HB2	1.58	0.85
1:C:364:GLN:HA	1:C:367:TYR:HD2	1.40	0.85
1:G:117:PHE:HZ	1:G:176:SER:HB2	1.41	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:866:GLU:OE1	1:K:898:LYS:NZ	2.08	0.85
1:C:117:PHE:HZ	1:C:176:SER:HB2	1.41	0.85
1:C:784:ALA:HB1	1:C:814:SER:HB2	1.58	0.85
1:H:427:LEU:HA	1:H:439:TYR:HA	1.59	0.85
1:G:427:LEU:HA	1:G:439:TYR:HA	1.59	0.85
1:K:125:ASP:HB2	1:J:433:GLN:HE21	1.40	0.85
1:E:427:LEU:HA	1:E:439:TYR:HA	1.59	0.84
1:I:427:LEU:HA	1:I:439:TYR:HA	1.59	0.84
1:E:117:PHE:HZ	1:E:176:SER:HB2	1.41	0.84
1:F:427:LEU:HA	1:F:439:TYR:HA	1.59	0.84
1:J:427:LEU:HA	1:J:439:TYR:HA	1.59	0.84
1:K:784:ALA:HB1	1:K:814:SER:HB2	1.58	0.84
1:D:427:LEU:HA	1:D:439:TYR:HA	1.59	0.84
1:H:875:LEU:HD11	1:H:902:GLN:HA	1.60	0.84
1:A:117:PHE:HZ	1:A:176:SER:HB2	1.41	0.84
1:G:875:LEU:HD11	1:G:902:GLN:HA	1.60	0.84
1:I:875:LEU:HD11	1:I:902:GLN:HA	1.60	0.84
1:K:427:LEU:HA	1:K:439:TYR:HA	1.59	0.83
1:J:117:PHE:HZ	1:J:176:SER:HB2	1.41	0.83
1:F:364:GLN:HA	1:F:367:TYR:HD2	1.40	0.83
1:J:875:LEU:HD11	1:J:902:GLN:HA	1.60	0.83
1:K:875:LEU:HD11	1:K:902:GLN:HA	1.60	0.83
1:D:784:ALA:HB1	1:D:814:SER:HB2	1.58	0.83
1:H:784:ALA:HB1	1:H:814:SER:HB2	1.58	0.83
1:F:875:LEU:HD11	1:F:902:GLN:HA	1.60	0.83
1:A:427:LEU:HA	1:A:439:TYR:HA	1.59	0.83
1:E:784:ALA:HB1	1:E:814:SER:HB2	1.58	0.83
1:J:784:ALA:HB1	1:J:814:SER:HB2	1.58	0.83
1:A:875:LEU:HD11	1:A:902:GLN:HA	1.60	0.83
1:G:784:ALA:HB1	1:G:814:SER:HB2	1.58	0.83
1:C:427:LEU:HA	1:C:439:TYR:HA	1.59	0.83
1:F:784:ALA:HB1	1:F:814:SER:HB2	1.58	0.83
1:I:784:ALA:HB1	1:I:814:SER:HB2	1.58	0.83
1:K:433:GLN:HG2	1:A:125:ASP:H	1.41	0.82
1:K:766:GLU:HA	1:K:793:MET:HA	1.61	0.82
1:E:875:LEU:HD11	1:E:902:GLN:HA	1.60	0.82
1:A:766:GLU:HA	1:A:793:MET:HA	1.61	0.82
1:B:427:LEU:HA	1:B:439:TYR:HA	1.59	0.82
1:B:875:LEU:HD11	1:B:902:GLN:HA	1.60	0.82
1:J:766:GLU:HA	1:J:793:MET:HA	1.61	0.82
1:B:766:GLU:HA	1:B:793:MET:HA	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:875:LEU:HD11	1:C:902:GLN:HA	1.60	0.82
1:D:875:LEU:HD11	1:D:902:GLN:HA	1.60	0.82
1:F:117:PHE:HZ	1:F:176:SER:HB2	1.41	0.82
1:F:955:LEU:HD13	1:F:986:LYS:HG3	1.62	0.82
1:I:766:GLU:HA	1:I:793:MET:HA	1.61	0.82
1:A:154:LEU:HD13	1:A:182:ILE:HG12	1.62	0.82
1:I:955:LEU:HD13	1:I:986:LYS:HG3	1.62	0.82
1:B:154:LEU:HD13	1:B:182:ILE:HG12	1.62	0.81
1:D:955:LEU:HD13	1:D:986:LYS:HG3	1.62	0.81
1:E:955:LEU:HD13	1:E:986:LYS:HG3	1.62	0.81
1:H:955:LEU:HD13	1:H:986:LYS:HG3	1.62	0.81
1:K:154:LEU:HD13	1:K:182:ILE:HG12	1.62	0.81
1:K:955:LEU:HD13	1:K:986:LYS:HG3	1.62	0.81
1:C:766:GLU:HA	1:C:793:MET:HA	1.61	0.81
1:F:154:LEU:HD13	1:F:182:ILE:HG12	1.62	0.81
1:B:955:LEU:HD13	1:B:986:LYS:HG3	1.62	0.81
1:C:578:PHE:O	1:C:582:LYS:NZ	2.14	0.81
1:G:154:LEU:HD13	1:G:182:ILE:HG12	1.62	0.81
1:G:955:LEU:HD13	1:G:986:LYS:HG3	1.62	0.81
1:J:955:LEU:HD13	1:J:986:LYS:HG3	1.62	0.81
1:C:955:LEU:HD13	1:C:986:LYS:HG3	1.62	0.81
1:D:766:GLU:HA	1:D:793:MET:HA	1.61	0.81
1:K:578:PHE:O	1:K:582:LYS:NZ	2.14	0.81
1:B:578:PHE:O	1:B:582:LYS:NZ	2.14	0.81
1:E:578:PHE:O	1:E:582:LYS:NZ	2.14	0.81
1:H:766:GLU:HA	1:H:793:MET:HA	1.61	0.81
1:J:154:LEU:HD13	1:J:182:ILE:HG12	1.62	0.81
1:J:578:PHE:O	1:J:582:LYS:NZ	2.14	0.81
1:A:578:PHE:O	1:A:582:LYS:NZ	2.14	0.81
1:C:154:LEU:HD13	1:C:182:ILE:HG12	1.62	0.81
1:A:955:LEU:HD13	1:A:986:LYS:HG3	1.62	0.81
1:E:154:LEU:HD13	1:E:182:ILE:HG12	1.62	0.81
1:E:766:GLU:HA	1:E:793:MET:HA	1.61	0.80
1:H:154:LEU:HD13	1:H:182:ILE:HG12	1.61	0.80
1:G:766:GLU:HA	1:G:793:MET:HA	1.61	0.80
1:F:766:GLU:HA	1:F:793:MET:HA	1.61	0.80
1:A:433:GLN:HE21	1:B:125:ASP:HB2	1.47	0.80
1:I:154:LEU:HD13	1:I:182:ILE:HG12	1.61	0.80
1:D:154:LEU:HD13	1:D:182:ILE:HG12	1.62	0.80
1:G:578:PHE:O	1:G:582:LYS:NZ	2.14	0.79
1:C:433:GLN:HE21	1:D:125:ASP:HB2	1.48	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:565:SER:OG	1:H:567:SER:OG	2.00	0.79
1:H:578:PHE:O	1:H:582:LYS:NZ	2.14	0.79
1:E:433:GLN:HE21	1:F:125:ASP:HB2	1.48	0.79
1:I:565:SER:OG	1:I:567:SER:OG	2.00	0.79
1:B:478:VAL:O	1:B:481:SER:OG	2.01	0.79
1:D:433:GLN:HE21	1:E:125:ASP:HB2	1.48	0.79
1:D:565:SER:OG	1:D:567:SER:OG	2.00	0.79
1:G:565:SER:OG	1:G:567:SER:OG	2.00	0.79
1:I:433:GLN:HE21	1:J:125:ASP:HB2	1.47	0.79
1:C:565:SER:OG	1:C:567:SER:OG	2.00	0.78
1:J:565:SER:OG	1:J:567:SER:OG	2.00	0.78
1:A:478:VAL:O	1:A:481:SER:OG	2.01	0.78
1:G:478:VAL:O	1:G:481:SER:OG	2.01	0.78
1:I:578:PHE:O	1:I:582:LYS:NZ	2.14	0.78
1:F:433:GLN:HE21	1:G:125:ASP:HB2	1.48	0.78
1:B:565:SER:OG	1:B:567:SER:OG	2.00	0.78
1:C:478:VAL:O	1:C:481:SER:OG	2.01	0.78
1:J:115:LEU:O	1:J:130:LEU:N	2.17	0.78
1:D:115:LEU:O	1:D:130:LEU:N	2.17	0.78
1:E:478:VAL:O	1:E:481:SER:OG	2.01	0.78
1:F:565:SER:OG	1:F:567:SER:OG	2.00	0.78
1:H:433:GLN:HE21	1:I:125:ASP:HB2	1.48	0.78
1:E:115:LEU:O	1:E:130:LEU:N	2.17	0.78
1:C:115:LEU:O	1:C:130:LEU:N	2.17	0.78
1:I:115:LEU:O	1:I:130:LEU:N	2.17	0.78
1:K:565:SER:OG	1:K:567:SER:OG	2.00	0.78
1:B:433:GLN:HE21	1:C:125:ASP:HB2	1.49	0.78
1:G:433:GLN:HE21	1:H:125:ASP:HB2	1.47	0.78
1:I:875:LEU:HD21	1:I:902:GLN:HG2	1.67	0.77
1:A:565:SER:OG	1:A:567:SER:OG	2.00	0.77
1:A:875:LEU:HD21	1:A:902:GLN:HG2	1.67	0.77
1:C:875:LEU:HD21	1:C:902:GLN:HG2	1.67	0.77
1:D:875:LEU:HD21	1:D:902:GLN:HG2	1.67	0.77
1:B:875:LEU:HD21	1:B:902:GLN:HG2	1.67	0.77
1:D:478:VAL:O	1:D:481:SER:OG	2.01	0.77
1:D:578:PHE:O	1:D:582:LYS:NZ	2.14	0.77
1:G:875:LEU:HD21	1:G:902:GLN:HG2	1.67	0.77
1:H:875:LEU:HD21	1:H:902:GLN:HG2	1.67	0.77
1:J:875:LEU:HD21	1:J:902:GLN:HG2	1.67	0.77
1:K:478:VAL:O	1:K:481:SER:OG	2.01	0.77
1:K:875:LEU:HD21	1:K:902:GLN:HG2	1.67	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:115:LEU:O	1:F:130:LEU:N	2.17	0.77
1:H:115:LEU:O	1:H:130:LEU:N	2.17	0.77
1:B:115:LEU:O	1:B:130:LEU:N	2.17	0.77
1:E:565:SER:OG	1:E:567:SER:OG	2.00	0.77
1:E:875:LEU:HD21	1:E:902:GLN:HG2	1.67	0.77
1:F:478:VAL:O	1:F:481:SER:OG	2.01	0.77
1:F:421:LEU:HD23	1:F:424:ILE:HD12	1.67	0.77
1:F:875:LEU:HD21	1:F:902:GLN:HG2	1.67	0.77
1:H:478:VAL:O	1:H:481:SER:OG	2.01	0.77
1:F:578:PHE:O	1:F:582:LYS:NZ	2.14	0.76
1:H:421:LEU:HD23	1:H:424:ILE:HD12	1.67	0.76
1:D:176:SER:O	1:D:180:GLN:NE2	2.19	0.76
1:G:602:LEU:HD22	1:G:605:CYS:SG	2.26	0.76
1:K:176:SER:O	1:K:180:GLN:NE2	2.19	0.76
1:A:176:SER:O	1:A:180:GLN:NE2	2.19	0.76
1:B:176:SER:O	1:B:180:GLN:NE2	2.19	0.76
1:C:176:SER:O	1:C:180:GLN:NE2	2.19	0.76
1:E:176:SER:O	1:E:180:GLN:NE2	2.19	0.76
1:E:421:LEU:HD23	1:E:424:ILE:HD12	1.67	0.76
1:E:602:LEU:HD22	1:E:605:CYS:SG	2.26	0.76
1:G:115:LEU:O	1:G:130:LEU:N	2.17	0.76
1:J:478:VAL:O	1:J:481:SER:OG	2.01	0.76
1:I:421:LEU:HD23	1:I:424:ILE:HD12	1.67	0.76
1:G:421:LEU:HD23	1:G:424:ILE:HD12	1.67	0.76
1:I:478:VAL:O	1:I:481:SER:OG	2.01	0.76
1:J:176:SER:O	1:J:180:GLN:NE2	2.19	0.76
1:F:176:SER:O	1:F:180:GLN:NE2	2.19	0.76
1:I:602:LEU:HD22	1:I:605:CYS:SG	2.26	0.76
1:A:1015:ILE:HG21	1:B:653:PHE:HB3	1.67	0.75
1:C:398:LEU:HD21	1:C:455:LEU:HG	1.68	0.75
1:D:421:LEU:HD23	1:D:424:ILE:HD12	1.67	0.75
1:C:602:LEU:HD22	1:C:605:CYS:SG	2.25	0.75
1:D:602:LEU:HD22	1:D:605:CYS:SG	2.26	0.75
1:H:602:LEU:HD22	1:H:605:CYS:SG	2.26	0.75
1:E:398:LEU:HD21	1:E:455:LEU:HG	1.68	0.75
1:I:176:SER:O	1:I:180:GLN:NE2	2.19	0.75
1:A:115:LEU:O	1:A:130:LEU:N	2.17	0.75
1:E:126:ILE:HG22	1:E:127:ILE:HG13	1.69	0.75
1:H:126:ILE:HG22	1:H:127:ILE:HG13	1.69	0.75
1:J:421:LEU:HD23	1:J:424:ILE:HD12	1.67	0.75
1:K:602:LEU:HD22	1:K:605:CYS:SG	2.26	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1015:ILE:HG21	1:F:653:PHE:HB3	1.69	0.75
1:F:602:LEU:HD22	1:F:605:CYS:SG	2.26	0.75
1:F:1015:ILE:HG21	1:G:653:PHE:HB3	1.68	0.75
1:I:126:ILE:HG22	1:I:127:ILE:HG13	1.69	0.75
1:A:602:LEU:HD22	1:A:605:CYS:SG	2.26	0.75
1:C:421:LEU:HD23	1:C:424:ILE:HD12	1.67	0.75
1:G:126:ILE:HG22	1:G:127:ILE:HG13	1.69	0.75
1:K:126:ILE:HG22	1:K:127:ILE:HG13	1.69	0.75
1:A:126:ILE:HG22	1:A:127:ILE:HG13	1.69	0.75
1:B:602:LEU:HD22	1:B:605:CYS:SG	2.26	0.75
1:D:126:ILE:HG22	1:D:127:ILE:HG13	1.69	0.75
1:J:126:ILE:HG22	1:J:127:ILE:HG13	1.69	0.75
1:F:126:ILE:HG22	1:F:127:ILE:HG13	1.69	0.75
1:G:176:SER:O	1:G:180:GLN:NE2	2.19	0.75
1:K:421:LEU:HD23	1:K:424:ILE:HD12	1.67	0.74
1:J:602:LEU:HD22	1:J:605:CYS:SG	2.26	0.74
1:A:398:LEU:HD21	1:A:455:LEU:HG	1.68	0.74
1:B:126:ILE:HG22	1:B:127:ILE:HG13	1.69	0.74
1:C:1015:ILE:HG21	1:D:653:PHE:HB3	1.69	0.74
1:D:1015:ILE:HG21	1:E:653:PHE:HB3	1.70	0.74
1:H:176:SER:O	1:H:180:GLN:NE2	2.19	0.74
1:J:868:LEU:HD23	1:J:871:LEU:HD12	1.69	0.74
1:B:421:LEU:HD23	1:B:424:ILE:HD12	1.67	0.74
1:A:421:LEU:HD23	1:A:424:ILE:HD12	1.67	0.74
1:C:126:ILE:HG22	1:C:127:ILE:HG13	1.69	0.74
1:D:868:LEU:HD23	1:D:871:LEU:HD12	1.69	0.74
1:G:398:LEU:HD21	1:G:455:LEU:HG	1.68	0.74
1:G:1015:ILE:HG21	1:H:653:PHE:HB3	1.69	0.74
1:E:868:LEU:HD23	1:E:871:LEU:HD12	1.69	0.74
1:I:398:LEU:HD21	1:I:455:LEU:HG	1.68	0.74
1:J:398:LEU:HD21	1:J:455:LEU:HG	1.68	0.74
1:C:868:LEU:HD23	1:C:871:LEU:HD12	1.69	0.73
1:F:868:LEU:HD23	1:F:871:LEU:HD12	1.69	0.73
1:A:868:LEU:HD23	1:A:871:LEU:HD12	1.69	0.73
1:F:181:ARG:HD2	1:F:184:MET:HB3	1.71	0.73
1:G:181:ARG:HD2	1:G:184:MET:HB3	1.71	0.73
1:H:868:LEU:HD23	1:H:871:LEU:HD12	1.69	0.73
1:K:115:LEU:O	1:K:130:LEU:N	2.17	0.73
1:K:868:LEU:HD23	1:K:871:LEU:HD12	1.69	0.73
1:D:398:LEU:HD21	1:D:455:LEU:HG	1.68	0.73
1:K:398:LEU:HD21	1:K:455:LEU:HG	1.68	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:868:LEU:HD23	1:G:871:LEU:HD12	1.69	0.73
1:H:181:ARG:HD2	1:H:184:MET:HB3	1.71	0.73
1:H:398:LEU:HD21	1:H:455:LEU:HG	1.68	0.73
1:I:572:SER:HB3	1:I:602:LEU:HD11	1.70	0.73
1:I:181:ARG:HD2	1:I:184:MET:HB3	1.71	0.73
1:B:398:LEU:HD21	1:B:455:LEU:HG	1.68	0.73
1:E:181:ARG:HD2	1:E:184:MET:HB3	1.71	0.73
1:F:572:SER:HB3	1:F:602:LEU:HD11	1.70	0.73
1:G:572:SER:HB3	1:G:602:LEU:HD11	1.70	0.73
1:H:572:SER:HB3	1:H:602:LEU:HD11	1.70	0.73
1:J:572:SER:HB3	1:J:602:LEU:HD11	1.70	0.73
1:K:572:SER:HB3	1:K:602:LEU:HD11	1.70	0.73
1:D:572:SER:HB3	1:D:602:LEU:HD11	1.70	0.73
1:E:572:SER:HB3	1:E:602:LEU:HD11	1.70	0.73
1:F:398:LEU:HD21	1:F:455:LEU:HG	1.68	0.73
1:I:1015:ILE:HG21	1:J:653:PHE:HB3	1.69	0.73
1:J:181:ARG:HD2	1:J:184:MET:HB3	1.71	0.73
1:K:181:ARG:HD2	1:K:184:MET:HB3	1.71	0.73
1:D:181:ARG:HD2	1:D:184:MET:HB3	1.71	0.73
1:K:653:PHE:HB3	1:J:1015:ILE:CG2	2.18	0.72
1:A:167:ILE:HA	1:A:295:ALA:H	1.54	0.72
1:A:181:ARG:HD2	1:A:184:MET:HB3	1.71	0.72
1:H:167:ILE:HA	1:H:295:ALA:H	1.54	0.72
1:I:112:PRO:O	1:I:116:ASN:N	2.22	0.72
1:B:868:LEU:HD23	1:B:871:LEU:HD12	1.69	0.72
1:C:181:ARG:HD2	1:C:184:MET:HB3	1.71	0.72
1:H:112:PRO:O	1:H:116:ASN:N	2.22	0.72
1:K:167:ILE:HA	1:K:295:ALA:H	1.54	0.72
1:B:181:ARG:HD2	1:B:184:MET:HB3	1.71	0.72
1:A:572:SER:HB3	1:A:602:LEU:HD11	1.70	0.72
1:E:167:ILE:HA	1:E:295:ALA:H	1.54	0.72
1:F:167:ILE:HA	1:F:295:ALA:H	1.54	0.72
1:C:572:SER:HB3	1:C:602:LEU:HD11	1.70	0.72
1:G:112:PRO:O	1:G:116:ASN:N	2.22	0.72
1:B:1015:ILE:HG21	1:C:653:PHE:HB3	1.71	0.72
1:D:167:ILE:HA	1:D:295:ALA:H	1.54	0.72
1:G:167:ILE:HA	1:G:295:ALA:H	1.54	0.72
1:I:868:LEU:HD23	1:I:871:LEU:HD12	1.69	0.72
1:K:119:PRO:HA	1:J:289:HIS:CE1	2.25	0.72
1:B:167:ILE:HA	1:B:295:ALA:H	1.54	0.72
1:J:167:ILE:HA	1:J:295:ALA:H	1.54	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:112:PRO:O	1:A:116:ASN:N	2.22	0.72
1:B:112:PRO:O	1:B:116:ASN:N	2.22	0.72
1:F:112:PRO:O	1:F:116:ASN:N	2.22	0.71
1:B:572:SER:HB3	1:B:602:LEU:HD11	1.70	0.71
1:K:112:PRO:O	1:K:116:ASN:N	2.22	0.71
1:C:167:ILE:HA	1:C:295:ALA:H	1.54	0.71
1:C:112:PRO:O	1:C:116:ASN:N	2.22	0.71
1:H:1015:ILE:HG21	1:I:653:PHE:HB3	1.71	0.71
1:I:167:ILE:HA	1:I:295:ALA:H	1.54	0.71
1:F:657:GLN:HB3	1:F:658:GLU:HG2	1.73	0.70
1:J:112:PRO:O	1:J:116:ASN:N	2.22	0.70
1:B:875:LEU:HA	1:B:878:LEU:HB2	1.74	0.70
1:C:875:LEU:HA	1:C:878:LEU:HB2	1.74	0.70
1:H:875:LEU:HA	1:H:878:LEU:HB2	1.73	0.70
1:J:798:LEU:HB3	1:J:801:LEU:HD11	1.73	0.70
1:K:798:LEU:HB3	1:K:801:LEU:HD11	1.73	0.70
1:B:385:ASP:O	1:B:388:ARG:HB2	1.92	0.70
1:D:112:PRO:O	1:D:116:ASN:N	2.22	0.70
1:G:657:GLN:HB3	1:G:658:GLU:HG2	1.74	0.70
1:I:875:LEU:HA	1:I:878:LEU:HB2	1.74	0.70
1:K:875:LEU:HA	1:K:878:LEU:HB2	1.74	0.70
1:K:1015:ILE:HG21	1:A:653:PHE:HB3	1.74	0.70
1:A:385:ASP:O	1:A:388:ARG:HB2	1.92	0.70
1:C:385:ASP:O	1:C:388:ARG:HB2	1.92	0.70
1:D:875:LEU:HA	1:D:878:LEU:HB2	1.74	0.70
1:H:657:GLN:HB3	1:H:658:GLU:HG2	1.73	0.70
1:I:798:LEU:HB3	1:I:801:LEU:HD11	1.73	0.70
1:A:875:LEU:HA	1:A:878:LEU:HB2	1.74	0.70
1:G:875:LEU:HA	1:G:878:LEU:HB2	1.74	0.70
1:I:385:ASP:O	1:I:388:ARG:HB2	1.92	0.70
1:J:875:LEU:HA	1:J:878:LEU:HB2	1.74	0.70
1:D:385:ASP:O	1:D:388:ARG:HB2	1.92	0.70
1:E:112:PRO:O	1:E:116:ASN:N	2.22	0.70
1:F:385:ASP:O	1:F:388:ARG:HB2	1.92	0.70
1:E:657:GLN:HB3	1:E:658:GLU:HG2	1.74	0.70
1:H:798:LEU:HB3	1:H:801:LEU:HD11	1.73	0.70
1:K:385:ASP:O	1:K:388:ARG:HB2	1.92	0.70
1:D:657:GLN:HB3	1:D:658:GLU:HG2	1.74	0.70
1:A:798:LEU:HB3	1:A:801:LEU:HD11	1.73	0.70
1:E:875:LEU:HA	1:E:878:LEU:HB2	1.74	0.70
1:I:657:GLN:HB3	1:I:658:GLU:HG2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:385:ASP:O	1:E:388:ARG:HB2	1.92	0.69
1:F:875:LEU:HA	1:F:878:LEU:HB2	1.74	0.69
1:F:914:LEU:HD12	1:F:919:LEU:HD11	1.74	0.69
1:H:385:ASP:O	1:H:388:ARG:HB2	1.92	0.69
1:J:657:GLN:HB3	1:J:658:GLU:HG2	1.73	0.69
1:C:657:GLN:HB3	1:C:658:GLU:HG2	1.74	0.69
1:G:385:ASP:O	1:G:388:ARG:HB2	1.92	0.69
1:G:798:LEU:HB3	1:G:801:LEU:HD11	1.73	0.69
1:G:914:LEU:HD12	1:G:919:LEU:HD11	1.74	0.69
1:K:125:ASP:N	1:J:433:GLN:HG2	2.05	0.69
1:K:517:SER:O	1:K:550:ASN:ND2	2.26	0.69
1:A:517:SER:O	1:A:550:ASN:ND2	2.26	0.69
1:J:385:ASP:O	1:J:388:ARG:HB2	1.92	0.69
1:J:517:SER:O	1:J:550:ASN:ND2	2.26	0.69
1:A:534:ILE:HB	1:A:693:HIS:HB2	1.75	0.69
1:B:517:SER:O	1:B:550:ASN:ND2	2.26	0.69
1:B:798:LEU:HB3	1:B:801:LEU:HD11	1.73	0.69
1:E:914:LEU:HD12	1:E:919:LEU:HD11	1.74	0.69
1:I:517:SER:O	1:I:550:ASN:ND2	2.26	0.69
1:K:534:ILE:HB	1:K:693:HIS:HB2	1.75	0.69
1:A:340:PHE:HA	1:A:343:ILE:HD12	1.75	0.69
1:A:914:LEU:HD12	1:A:919:LEU:HD11	1.74	0.69
1:B:340:PHE:HA	1:B:343:ILE:HD12	1.75	0.69
1:F:552:ASN:HD22	1:F:584:LEU:HA	1.58	0.69
1:F:798:LEU:HB3	1:F:801:LEU:HD11	1.73	0.69
1:G:552:ASN:HD22	1:G:584:LEU:HA	1.58	0.69
1:H:517:SER:O	1:H:550:ASN:ND2	2.26	0.69
1:K:657:GLN:HB3	1:K:658:GLU:HG2	1.74	0.69
1:B:534:ILE:HB	1:B:693:HIS:HB2	1.75	0.69
1:D:914:LEU:HD12	1:D:919:LEU:HD11	1.74	0.69
1:D:340:PHE:HA	1:D:343:ILE:HD12	1.75	0.69
1:E:798:LEU:HB3	1:E:801:LEU:HD11	1.73	0.69
1:H:914:LEU:HD12	1:H:919:LEU:HD11	1.74	0.69
1:K:340:PHE:HA	1:K:343:ILE:HD12	1.75	0.68
1:B:657:GLN:HB3	1:B:658:GLU:HG2	1.74	0.68
1:C:340:PHE:HA	1:C:343:ILE:HD12	1.75	0.68
1:C:517:SER:O	1:C:550:ASN:ND2	2.26	0.68
1:C:798:LEU:HB3	1:C:801:LEU:HD11	1.73	0.68
1:E:340:PHE:HA	1:E:343:ILE:HD12	1.75	0.68
1:E:420:VAL:O	1:E:424:ILE:HG13	1.93	0.68
1:D:798:LEU:HB3	1:D:801:LEU:HD11	1.73	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:860:LEU:HD12	1:F:864:GLY:HA2	1.75	0.68
1:G:517:SER:O	1:G:550:ASN:ND2	2.26	0.68
1:I:534:ILE:HB	1:I:693:HIS:HB2	1.75	0.68
1:I:860:LEU:HD12	1:I:864:GLY:HA2	1.76	0.68
1:B:914:LEU:HD12	1:B:919:LEU:HD11	1.74	0.68
1:C:860:LEU:HD12	1:C:864:GLY:HA2	1.76	0.68
1:E:860:LEU:HD12	1:E:864:GLY:HA2	1.76	0.68
1:G:860:LEU:HD12	1:G:864:GLY:HA2	1.76	0.68
1:J:534:ILE:HB	1:J:693:HIS:HB2	1.75	0.68
1:J:860:LEU:HD12	1:J:864:GLY:HA2	1.75	0.68
1:K:914:LEU:HD12	1:K:919:LEU:HD11	1.74	0.68
1:C:534:ILE:HB	1:C:693:HIS:HB2	1.75	0.68
1:I:552:ASN:HD22	1:I:584:LEU:HA	1.58	0.68
1:B:552:ASN:HD22	1:B:584:LEU:HA	1.58	0.68
1:B:860:LEU:HD12	1:B:864:GLY:HA2	1.76	0.68
1:D:420:VAL:O	1:D:424:ILE:HG13	1.93	0.68
1:E:552:ASN:HD22	1:E:584:LEU:HA	1.58	0.68
1:F:340:PHE:HA	1:F:343:ILE:HD12	1.75	0.68
1:A:552:ASN:HD22	1:A:584:LEU:HA	1.58	0.68
1:A:657:GLN:HB3	1:A:658:GLU:HG2	1.73	0.68
1:D:517:SER:O	1:D:550:ASN:ND2	2.26	0.68
1:F:517:SER:O	1:F:550:ASN:ND2	2.26	0.68
1:G:420:VAL:O	1:G:424:ILE:HG13	1.93	0.68
1:J:340:PHE:HA	1:J:343:ILE:HD12	1.75	0.68
1:K:420:VAL:O	1:K:424:ILE:HG13	1.93	0.68
1:D:860:LEU:HD12	1:D:864:GLY:HA2	1.76	0.68
1:H:860:LEU:HD12	1:H:864:GLY:HA2	1.76	0.68
1:J:360:THR:O	1:J:363:PHE:HB2	1.94	0.68
1:B:420:VAL:O	1:B:424:ILE:HG13	1.93	0.68
1:C:914:LEU:HD12	1:C:919:LEU:HD11	1.74	0.68
1:E:517:SER:O	1:E:550:ASN:ND2	2.26	0.68
1:H:534:ILE:HB	1:H:693:HIS:HB2	1.75	0.68
1:H:552:ASN:HD22	1:H:584:LEU:HA	1.58	0.68
1:K:860:LEU:HD12	1:K:864:GLY:HA2	1.76	0.68
1:A:860:LEU:HD12	1:A:864:GLY:HA2	1.76	0.68
1:C:552:ASN:HD22	1:C:584:LEU:HA	1.58	0.68
1:A:360:THR:O	1:A:363:PHE:HB2	1.94	0.68
1:D:534:ILE:HB	1:D:693:HIS:HB2	1.75	0.68
1:G:340:PHE:HA	1:G:343:ILE:HD12	1.75	0.68
1:I:340:PHE:HA	1:I:343:ILE:HD12	1.75	0.68
1:I:914:LEU:HD12	1:I:919:LEU:HD11	1.74	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:420:VAL:O	1:J:423:THR:OG1	2.09	0.68
1:A:420:VAL:O	1:A:423:THR:OG1	2.09	0.67
1:C:420:VAL:O	1:C:424:ILE:HG13	1.93	0.67
1:G:534:ILE:HB	1:G:693:HIS:HB2	1.75	0.67
1:H:340:PHE:HA	1:H:343:ILE:HD12	1.75	0.67
1:I:420:VAL:O	1:I:424:ILE:HG13	1.93	0.67
1:J:420:VAL:O	1:J:424:ILE:HG13	1.93	0.67
1:E:534:ILE:HB	1:E:693:HIS:HB2	1.75	0.67
1:G:360:THR:O	1:G:363:PHE:HB2	1.94	0.67
1:I:360:THR:O	1:I:363:PHE:HB2	1.94	0.67
1:B:356:ALA:N	1:B:357:HIS:HA	2.10	0.67
1:B:940:GLN:O	1:B:969:PHE:N	2.28	0.67
1:G:940:GLN:O	1:G:969:PHE:N	2.28	0.67
1:K:552:ASN:HD22	1:K:584:LEU:HA	1.58	0.67
1:K:940:GLN:O	1:K:969:PHE:N	2.28	0.67
1:D:552:ASN:HD22	1:D:584:LEU:HA	1.58	0.67
1:E:420:VAL:O	1:E:423:THR:OG1	2.09	0.67
1:F:420:VAL:O	1:F:424:ILE:HG13	1.93	0.67
1:H:360:THR:O	1:H:363:PHE:HB2	1.94	0.67
1:I:940:GLN:O	1:I:969:PHE:N	2.28	0.67
1:J:552:ASN:HD22	1:J:584:LEU:HA	1.58	0.67
1:E:360:THR:O	1:E:363:PHE:HB2	1.94	0.67
1:F:360:THR:O	1:F:363:PHE:HB2	1.94	0.67
1:F:534:ILE:HB	1:F:693:HIS:HB2	1.75	0.67
1:F:940:GLN:O	1:F:969:PHE:N	2.28	0.67
1:H:420:VAL:O	1:H:424:ILE:HG13	1.93	0.67
1:B:360:THR:O	1:B:363:PHE:HB2	1.94	0.67
1:D:360:THR:O	1:D:363:PHE:HB2	1.94	0.67
1:C:360:THR:O	1:C:363:PHE:HB2	1.94	0.67
1:E:940:GLN:O	1:E:969:PHE:N	2.28	0.67
1:J:914:LEU:HD12	1:J:919:LEU:HD11	1.74	0.67
1:A:940:GLN:O	1:A:969:PHE:N	2.28	0.66
1:C:356:ALA:N	1:C:357:HIS:HA	2.10	0.66
1:J:940:GLN:O	1:J:969:PHE:N	2.28	0.66
1:A:356:ALA:N	1:A:357:HIS:HA	2.10	0.66
1:G:356:ALA:N	1:G:357:HIS:HA	2.10	0.66
1:I:420:VAL:O	1:I:423:THR:OG1	2.09	0.66
1:K:360:THR:O	1:K:363:PHE:HB2	1.94	0.66
1:H:356:ALA:N	1:H:357:HIS:HA	2.10	0.66
1:H:940:GLN:O	1:H:969:PHE:N	2.28	0.66
1:D:940:GLN:O	1:D:969:PHE:N	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:356:ALA:N	1:F:357:HIS:HA	2.10	0.66
1:A:420:VAL:O	1:A:424:ILE:HG13	1.93	0.66
1:J:356:ALA:N	1:J:357:HIS:HA	2.10	0.66
1:I:356:ALA:N	1:I:357:HIS:HA	2.10	0.66
1:D:1011:ASP:OD2	1:E:679:TYR:HE1	1.79	0.65
1:E:356:ALA:N	1:E:357:HIS:HA	2.10	0.65
1:H:420:VAL:O	1:H:423:THR:OG1	2.10	0.65
1:J:694:ILE:HG21	1:J:700:MET:HG3	1.79	0.65
1:K:714:MET:HB3	1:K:735:VAL:HG21	1.79	0.65
1:G:420:VAL:O	1:G:423:THR:OG1	2.09	0.65
1:H:694:ILE:HG21	1:H:700:MET:HG3	1.79	0.65
1:A:694:ILE:HG21	1:A:700:MET:HG3	1.79	0.65
1:H:714:MET:HB3	1:H:735:VAL:HG21	1.79	0.65
1:I:714:MET:HB3	1:I:735:VAL:HG21	1.79	0.65
1:J:714:MET:HB3	1:J:735:VAL:HG21	1.79	0.65
1:C:940:GLN:O	1:C:969:PHE:N	2.28	0.65
1:H:216:LEU:O	1:H:220:LEU:N	2.30	0.65
1:I:1011:ASP:OD2	1:J:679:TYR:HE1	1.80	0.65
1:K:356:ALA:N	1:K:357:HIS:HA	2.10	0.65
1:C:1011:ASP:OD2	1:D:679:TYR:HE1	1.80	0.65
1:D:356:ALA:N	1:D:357:HIS:HA	2.10	0.65
1:I:216:LEU:O	1:I:220:LEU:N	2.30	0.65
1:J:216:LEU:O	1:J:220:LEU:N	2.30	0.65
1:K:216:LEU:O	1:K:220:LEU:N	2.30	0.65
1:K:679:TYR:HE1	1:J:1011:ASP:OD2	1.79	0.65
1:F:420:VAL:O	1:F:423:THR:OG1	2.09	0.65
1:G:216:LEU:O	1:G:220:LEU:N	2.30	0.65
1:K:420:VAL:O	1:K:423:THR:OG1	2.09	0.65
1:E:448:GLU:HB3	1:E:493:TYR:CE2	2.32	0.65
1:F:694:ILE:HG21	1:F:700:MET:HG3	1.79	0.65
1:A:448:GLU:HB3	1:A:493:TYR:CE2	2.32	0.65
1:D:448:GLU:HB3	1:D:493:TYR:CE2	2.32	0.65
1:F:216:LEU:O	1:F:220:LEU:N	2.30	0.65
1:K:448:GLU:HB3	1:K:493:TYR:CE2	2.32	0.65
1:A:714:MET:HB3	1:A:735:VAL:HG21	1.79	0.64
1:B:216:LEU:O	1:B:220:LEU:N	2.30	0.64
1:C:399:GLU:O	1:C:403:ALA:N	2.17	0.64
1:C:448:GLU:HB3	1:C:493:TYR:CE2	2.32	0.64
1:A:216:LEU:O	1:A:220:LEU:N	2.30	0.64
1:B:448:GLU:HB3	1:B:493:TYR:CE2	2.32	0.64
1:B:714:MET:HB3	1:B:735:VAL:HG21	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:448:GLU:HB3	1:G:493:TYR:CE2	2.32	0.64
1:J:448:GLU:HB3	1:J:493:TYR:CE2	2.32	0.64
1:B:399:GLU:O	1:B:403:ALA:N	2.17	0.64
1:D:399:GLU:O	1:D:403:ALA:N	2.17	0.64
1:D:826:LYS:HA	1:D:854:ASP:HB3	1.79	0.64
1:E:216:LEU:O	1:E:220:LEU:N	2.30	0.64
1:F:714:MET:HB3	1:F:735:VAL:HG21	1.79	0.64
1:G:714:MET:HB3	1:G:735:VAL:HG21	1.79	0.64
1:B:1011:ASP:OD2	1:C:679:TYR:HE1	1.81	0.64
1:G:247:LEU:O	1:G:278:THR:HB	1.98	0.64
1:G:1011:ASP:OD2	1:H:679:TYR:HE1	1.80	0.64
1:K:247:LEU:O	1:K:278:THR:HB	1.98	0.64
1:A:247:LEU:O	1:A:278:THR:HB	1.98	0.64
1:C:694:ILE:HG21	1:C:700:MET:HG3	1.79	0.64
1:F:235:LEU:HA	1:F:238:LYS:HD2	1.80	0.64
1:G:289:HIS:CE1	1:H:119:PRO:HA	2.32	0.64
1:H:448:GLU:HB3	1:H:493:TYR:CE2	2.32	0.64
1:B:826:LYS:HA	1:B:854:ASP:HB3	1.79	0.64
1:D:235:LEU:HA	1:D:238:LYS:HD2	1.80	0.64
1:D:694:ILE:HG21	1:D:700:MET:HG3	1.79	0.64
1:I:289:HIS:CE1	1:J:119:PRO:HA	2.33	0.64
1:B:247:LEU:O	1:B:278:THR:HB	1.98	0.64
1:C:825:MET:O	1:C:854:ASP:N	2.25	0.64
1:E:247:LEU:O	1:E:278:THR:HB	1.98	0.64
1:E:826:LYS:HA	1:E:854:ASP:HB3	1.79	0.64
1:H:924:ILE:HG13	1:H:957:PHE:CD1	2.33	0.64
1:K:399:GLU:O	1:K:403:ALA:N	2.17	0.64
1:K:694:ILE:HG21	1:K:700:MET:HG3	1.79	0.64
1:A:1011:ASP:OD2	1:B:679:TYR:HE1	1.80	0.64
1:B:694:ILE:HG21	1:B:700:MET:HG3	1.79	0.64
1:C:393:CYS:O	1:C:396:LEU:HB2	1.98	0.64
1:D:216:LEU:O	1:D:220:LEU:N	2.30	0.64
1:D:247:LEU:O	1:D:278:THR:HB	1.98	0.64
1:F:393:CYS:O	1:F:396:LEU:HB2	1.98	0.64
1:F:924:ILE:HG13	1:F:957:PHE:CD1	2.33	0.64
1:F:1011:ASP:OD2	1:G:679:TYR:HE1	1.79	0.64
1:J:247:LEU:O	1:J:278:THR:HB	1.98	0.64
1:K:433:GLN:HE21	1:A:125:ASP:HB2	1.62	0.64
1:C:216:LEU:O	1:C:220:LEU:N	2.30	0.64
1:C:714:MET:HB3	1:C:735:VAL:HG21	1.79	0.64
1:E:393:CYS:O	1:E:396:LEU:HB2	1.98	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:1013:SER:HA	1:E:1016:LYS:HB3	1.80	0.64
1:G:393:CYS:O	1:G:396:LEU:HB2	1.98	0.64
1:I:694:ILE:HG21	1:I:700:MET:HG3	1.79	0.64
1:C:247:LEU:O	1:C:278:THR:HB	1.98	0.64
1:D:337:THR:HG22	1:D:339:LEU:H	1.63	0.64
1:D:714:MET:HB3	1:D:735:VAL:HG21	1.79	0.64
1:D:825:MET:O	1:D:854:ASP:N	2.25	0.64
1:H:393:CYS:O	1:H:396:LEU:HB2	1.98	0.64
1:I:924:ILE:HG13	1:I:957:PHE:CD1	2.33	0.64
1:K:924:ILE:HG13	1:K:957:PHE:CD1	2.33	0.63
1:A:370:LEU:O	1:A:374:ASN:ND2	2.29	0.63
1:A:399:GLU:O	1:A:403:ALA:N	2.17	0.63
1:C:390:LEU:HB2	1:C:421:LEU:HD21	1.80	0.63
1:D:393:CYS:O	1:D:396:LEU:HB2	1.98	0.63
1:F:448:GLU:HB3	1:F:493:TYR:CE2	2.32	0.63
1:F:468:SER:HA	1:F:471:ASN:HB2	1.80	0.63
1:G:924:ILE:HG13	1:G:957:PHE:CD1	2.33	0.63
1:H:468:SER:HA	1:H:471:ASN:HB2	1.80	0.63
1:B:825:MET:O	1:B:854:ASP:N	2.25	0.63
1:C:235:LEU:HA	1:C:238:LYS:HD2	1.80	0.63
1:D:390:LEU:HB2	1:D:421:LEU:HD21	1.80	0.63
1:E:399:GLU:O	1:E:403:ALA:N	2.17	0.63
1:F:337:THR:HG22	1:F:339:LEU:H	1.63	0.63
1:F:826:LYS:HA	1:F:854:ASP:HB3	1.79	0.63
1:G:666:LEU:HG	1:G:692:LEU:HD11	1.81	0.63
1:I:247:LEU:O	1:I:278:THR:HB	1.98	0.63
1:K:235:LEU:HA	1:K:238:LYS:HD2	1.80	0.63
1:C:924:ILE:HG13	1:C:957:PHE:CD1	2.33	0.63
1:C:1013:SER:HA	1:C:1016:LYS:HB3	1.80	0.63
1:D:1013:SER:HA	1:D:1016:LYS:HB3	1.80	0.63
1:F:666:LEU:HG	1:F:692:LEU:HD11	1.80	0.63
1:G:337:THR:HG22	1:G:339:LEU:H	1.63	0.63
1:G:808:MET:HG2	1:G:830:CYS:SG	2.39	0.63
1:H:337:THR:HG22	1:H:339:LEU:H	1.64	0.63
1:H:666:LEU:HG	1:H:692:LEU:HD11	1.81	0.63
1:J:199:LEU:O	1:J:243:VAL:HA	1.99	0.63
1:J:235:LEU:HA	1:J:238:LYS:HD2	1.80	0.63
1:K:370:LEU:O	1:K:374:ASN:ND2	2.29	0.63
1:A:199:LEU:O	1:A:243:VAL:HA	1.99	0.63
1:B:199:LEU:O	1:B:243:VAL:HA	1.99	0.63
1:B:390:LEU:HB2	1:B:421:LEU:HD21	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:666:LEU:HG	1:B:692:LEU:HD11	1.81	0.63
1:C:666:LEU:HG	1:C:692:LEU:HD11	1.81	0.63
1:E:337:THR:HG22	1:E:339:LEU:H	1.64	0.63
1:E:694:ILE:HG21	1:E:700:MET:HG3	1.79	0.63
1:G:694:ILE:HG21	1:G:700:MET:HG3	1.79	0.63
1:G:826:LYS:HA	1:G:854:ASP:HB3	1.79	0.63
1:G:1013:SER:HA	1:G:1016:LYS:HB3	1.80	0.63
1:H:199:LEU:O	1:H:243:VAL:HA	1.99	0.63
1:H:247:LEU:O	1:H:278:THR:HB	1.98	0.63
1:I:826:LYS:HA	1:I:854:ASP:HB3	1.79	0.63
1:J:924:ILE:HG13	1:J:957:PHE:CD1	2.33	0.63
1:K:808:MET:HG2	1:K:830:CYS:SG	2.39	0.63
1:D:289:HIS:CE1	1:E:119:PRO:HA	2.33	0.63
1:D:666:LEU:HG	1:D:692:LEU:HD11	1.80	0.63
1:D:924:ILE:HG13	1:D:957:PHE:CD1	2.33	0.63
1:E:390:LEU:HB2	1:E:421:LEU:HD21	1.80	0.63
1:E:659:PHE:N	1:E:686:SER:O	2.32	0.63
1:E:714:MET:HB3	1:E:735:VAL:HG21	1.79	0.63
1:F:370:LEU:O	1:F:374:ASN:ND2	2.29	0.63
1:F:1013:SER:HA	1:F:1016:LYS:HB3	1.80	0.63
1:H:1011:ASP:OD2	1:I:679:TYR:HE1	1.82	0.63
1:I:448:GLU:HB3	1:I:493:TYR:CE2	2.32	0.63
1:I:749:GLN:HA	1:I:774:ARG:O	1.99	0.63
1:I:825:MET:O	1:I:854:ASP:N	2.25	0.63
1:K:749:GLN:HA	1:K:774:ARG:O	1.99	0.63
1:B:808:MET:HG2	1:B:830:CYS:SG	2.39	0.63
1:C:611:PHE:HB3	1:C:661:THR:HG23	1.81	0.63
1:C:826:LYS:HA	1:C:854:ASP:HB3	1.79	0.63
1:C:844:LEU:HD12	1:C:847:LEU:HB2	1.81	0.63
1:E:235:LEU:HA	1:E:238:LYS:HD2	1.79	0.63
1:F:247:LEU:O	1:F:278:THR:HB	1.98	0.63
1:G:235:LEU:HA	1:G:238:LYS:HD2	1.79	0.63
1:G:468:SER:HA	1:G:471:ASN:HB2	1.80	0.63
1:G:844:LEU:HD12	1:G:847:LEU:HB2	1.81	0.63
1:I:337:THR:HG22	1:I:339:LEU:H	1.63	0.63
1:I:468:SER:HA	1:I:471:ASN:HB2	1.80	0.63
1:K:393:CYS:O	1:K:396:LEU:HB2	1.98	0.63
1:A:289:HIS:CE1	1:B:119:PRO:HA	2.33	0.63
1:B:235:LEU:HA	1:B:238:LYS:HD2	1.80	0.63
1:B:393:CYS:O	1:B:396:LEU:HB2	1.98	0.63
1:C:199:LEU:O	1:C:243:VAL:HA	1.99	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:337:THR:HG22	1:C:339:LEU:H	1.63	0.63
1:C:703:ARG:O	1:C:706:SER:OG	2.17	0.63
1:D:703:ARG:O	1:D:706:SER:OG	2.17	0.63
1:E:468:SER:HA	1:E:471:ASN:HB2	1.80	0.63
1:E:666:LEU:HG	1:E:692:LEU:HD11	1.81	0.63
1:E:808:MET:HG2	1:E:830:CYS:SG	2.39	0.63
1:F:749:GLN:HA	1:F:774:ARG:O	1.99	0.63
1:F:1015:ILE:CG2	1:G:653:PHE:HB3	2.28	0.63
1:G:199:LEU:O	1:G:243:VAL:HA	1.99	0.63
1:H:235:LEU:HA	1:H:238:LYS:HD2	1.80	0.63
1:H:399:GLU:O	1:H:403:ALA:N	2.17	0.63
1:H:826:LYS:HA	1:H:854:ASP:HB3	1.79	0.63
1:I:393:CYS:O	1:I:396:LEU:HB2	1.98	0.63
1:I:666:LEU:HG	1:I:692:LEU:HD11	1.81	0.63
1:J:826:LYS:HA	1:J:854:ASP:HB3	1.79	0.63
1:A:115:LEU:HD21	1:A:181:ARG:HD3	1.81	0.63
1:B:844:LEU:HD12	1:B:847:LEU:HB2	1.81	0.63
1:D:808:MET:HG2	1:D:830:CYS:SG	2.39	0.63
1:D:844:LEU:HD12	1:D:847:LEU:HB2	1.81	0.63
1:E:551:VAL:HB	1:E:582:LYS:HB3	1.81	0.63
1:F:659:PHE:N	1:F:686:SER:O	2.32	0.63
1:H:808:MET:HG2	1:H:830:CYS:SG	2.39	0.63
1:H:844:LEU:HD12	1:H:847:LEU:HB2	1.81	0.63
1:I:235:LEU:HA	1:I:238:LYS:HD2	1.80	0.63
1:J:115:LEU:HD21	1:J:181:ARG:HD3	1.81	0.63
1:J:749:GLN:HA	1:J:774:ARG:O	1.99	0.63
1:K:199:LEU:O	1:K:243:VAL:HA	1.99	0.63
1:A:611:PHE:HB3	1:A:661:THR:HG23	1.81	0.63
1:A:924:ILE:HG13	1:A:957:PHE:CD1	2.33	0.63
1:A:1015:ILE:CG2	1:B:653:PHE:HB3	2.27	0.63
1:B:1013:SER:HA	1:B:1016:LYS:HB3	1.80	0.63
1:C:551:VAL:HB	1:C:582:LYS:HB3	1.81	0.63
1:F:844:LEU:HD12	1:F:847:LEU:HB2	1.81	0.63
1:G:395:ASP:O	1:G:399:GLU:HG2	1.99	0.63
1:I:199:LEU:O	1:I:243:VAL:HA	1.99	0.63
1:J:808:MET:HG2	1:J:830:CYS:SG	2.39	0.63
1:K:826:LYS:HA	1:K:854:ASP:HB3	1.79	0.62
1:A:390:LEU:HB2	1:A:421:LEU:HD21	1.80	0.62
1:A:393:CYS:O	1:A:396:LEU:HB2	1.98	0.62
1:A:666:LEU:HG	1:A:692:LEU:HD11	1.81	0.62
1:D:199:LEU:O	1:D:243:VAL:HA	1.99	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:468:SER:HA	1:D:471:ASN:HB2	1.80	0.62
1:F:199:LEU:O	1:F:243:VAL:HA	1.99	0.62
1:F:395:ASP:O	1:F:399:GLU:HG2	1.99	0.62
1:I:703:ARG:O	1:I:706:SER:OG	2.17	0.62
1:K:117:PHE:HE2	1:K:130:LEU:HD13	1.65	0.62
1:K:844:LEU:HD12	1:K:847:LEU:HB2	1.81	0.62
1:A:337:THR:HG22	1:A:339:LEU:H	1.64	0.62
1:A:749:GLN:HA	1:A:774:ARG:O	1.99	0.62
1:A:844:LEU:HD12	1:A:847:LEU:HB2	1.81	0.62
1:B:703:ARG:O	1:B:706:SER:OG	2.17	0.62
1:B:896:LEU:HD13	1:B:917:TRP:CZ3	2.34	0.62
1:C:896:LEU:HD13	1:C:917:TRP:CZ3	2.34	0.62
1:C:1015:ILE:CG2	1:D:653:PHE:HB3	2.29	0.62
1:E:199:LEU:O	1:E:243:VAL:HA	1.99	0.62
1:E:395:ASP:O	1:E:399:GLU:HG2	1.99	0.62
1:F:289:HIS:CE1	1:G:119:PRO:HA	2.33	0.62
1:F:390:LEU:HB2	1:F:421:LEU:HD21	1.80	0.62
1:H:749:GLN:HA	1:H:774:ARG:O	1.99	0.62
1:J:468:SER:HA	1:J:471:ASN:HB2	1.80	0.62
1:K:896:LEU:HD13	1:K:917:TRP:CZ3	2.35	0.62
1:A:235:LEU:HA	1:A:238:LYS:HD2	1.80	0.62
1:C:117:PHE:HE2	1:C:130:LEU:HD13	1.64	0.62
1:C:289:HIS:CE1	1:D:119:PRO:HA	2.33	0.62
1:C:749:GLN:HA	1:C:774:ARG:O	1.99	0.62
1:D:896:LEU:HD13	1:D:917:TRP:CZ3	2.35	0.62
1:E:825:MET:O	1:E:854:ASP:N	2.25	0.62
1:E:924:ILE:HG13	1:E:957:PHE:CD1	2.33	0.62
1:E:1011:ASP:OD2	1:F:679:TYR:HE1	1.82	0.62
1:G:551:VAL:HB	1:G:582:LYS:HB3	1.81	0.62
1:G:749:GLN:HA	1:G:774:ARG:O	1.99	0.62
1:H:395:ASP:O	1:H:399:GLU:HG2	2.00	0.62
1:J:395:ASP:O	1:J:399:GLU:HG2	2.00	0.62
1:J:844:LEU:HD12	1:J:847:LEU:HB2	1.81	0.62
1:B:479:SER:OG	1:B:480:ILE:N	2.33	0.62
1:D:395:ASP:O	1:D:399:GLU:HG2	2.00	0.62
1:D:781:LYS:O	1:D:784:ALA:HB3	2.00	0.62
1:E:607:SER:HB3	1:E:655:TRP:CZ2	2.29	0.62
1:E:844:LEU:HD12	1:E:847:LEU:HB2	1.81	0.62
1:I:433:GLN:HG2	1:J:125:ASP:N	2.12	0.62
1:I:844:LEU:HD12	1:I:847:LEU:HB2	1.81	0.62
1:J:390:LEU:HB2	1:J:421:LEU:HD21	1.80	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:703:ARG:O	1:J:706:SER:OG	2.17	0.62
1:K:337:THR:HG22	1:K:339:LEU:H	1.63	0.62
1:K:679:TYR:CE1	1:J:1011:ASP:OD2	2.53	0.62
1:K:890:TRP:HZ3	1:K:918:ARG:HE	1.48	0.62
1:A:607:SER:HB3	1:A:655:TRP:CZ2	2.29	0.62
1:A:781:LYS:O	1:A:784:ALA:HB3	2.00	0.62
1:A:1013:SER:HA	1:A:1016:LYS:HB3	1.80	0.62
1:B:117:PHE:HE2	1:B:130:LEU:HD13	1.64	0.62
1:C:781:LYS:O	1:C:784:ALA:HB3	2.00	0.62
1:C:808:MET:HG2	1:C:830:CYS:SG	2.39	0.62
1:D:117:PHE:HE2	1:D:130:LEU:HD13	1.64	0.62
1:E:611:PHE:HB3	1:E:661:THR:HG23	1.81	0.62
1:F:399:GLU:O	1:F:403:ALA:N	2.17	0.62
1:F:808:MET:HG2	1:F:830:CYS:SG	2.39	0.62
1:G:117:PHE:HE2	1:G:130:LEU:HD13	1.64	0.62
1:G:267:GLU:OE1	1:G:270:ARG:NH2	2.33	0.62
1:G:659:PHE:N	1:G:686:SER:O	2.32	0.62
1:G:781:LYS:O	1:G:784:ALA:HB3	2.00	0.62
1:J:370:LEU:O	1:J:374:ASN:ND2	2.29	0.62
1:J:666:LEU:HG	1:J:692:LEU:HD11	1.80	0.62
1:A:395:ASP:O	1:A:399:GLU:HG2	1.99	0.62
1:A:659:PHE:N	1:A:686:SER:O	2.32	0.62
1:D:479:SER:OG	1:D:480:ILE:N	2.33	0.62
1:D:890:TRP:HZ3	1:D:918:ARG:HE	1.48	0.62
1:E:781:LYS:O	1:E:784:ALA:HB3	2.00	0.62
1:F:267:GLU:OE1	1:F:270:ARG:NH2	2.33	0.62
1:F:896:LEU:HD13	1:F:917:TRP:CZ3	2.35	0.62
1:H:289:HIS:CE1	1:I:119:PRO:HA	2.33	0.62
1:H:611:PHE:HB3	1:H:661:THR:HG23	1.81	0.62
1:H:1013:SER:HA	1:H:1016:LYS:HB3	1.80	0.62
1:I:395:ASP:O	1:I:399:GLU:HG2	2.00	0.62
1:J:393:CYS:O	1:J:396:LEU:HB2	1.98	0.62
1:J:479:SER:OG	1:J:480:ILE:N	2.33	0.62
1:J:781:LYS:O	1:J:784:ALA:HB3	2.00	0.62
1:K:390:LEU:HB2	1:K:421:LEU:HD21	1.80	0.62
1:K:479:SER:OG	1:K:480:ILE:N	2.33	0.62
1:A:117:PHE:HE2	1:A:130:LEU:HD13	1.64	0.62
1:A:703:ARG:O	1:A:706:SER:OG	2.17	0.62
1:A:896:LEU:HD13	1:A:917:TRP:CZ3	2.35	0.62
1:B:924:ILE:HG13	1:B:957:PHE:CD1	2.33	0.62
1:E:890:TRP:HZ3	1:E:918:ARG:HE	1.48	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:896:LEU:HD13	1:G:917:TRP:CZ3	2.35	0.62
1:H:390:LEU:HB2	1:H:421:LEU:HD21	1.80	0.62
1:H:781:LYS:NZ	1:H:785:GLU:OE2	2.32	0.62
1:I:1013:SER:HA	1:I:1016:LYS:HB3	1.80	0.62
1:J:399:GLU:O	1:J:403:ALA:N	2.17	0.62
1:J:890:TRP:HZ3	1:J:918:ARG:HE	1.48	0.62
1:K:703:ARG:O	1:K:706:SER:OG	2.17	0.62
1:A:808:MET:HG2	1:A:830:CYS:SG	2.39	0.62
1:B:395:ASP:O	1:B:399:GLU:HG2	2.00	0.62
1:B:749:GLN:HA	1:B:774:ARG:O	1.99	0.62
1:B:781:LYS:O	1:B:784:ALA:HB3	2.00	0.62
1:C:115:LEU:HD21	1:C:181:ARG:HD3	1.81	0.62
1:C:395:ASP:O	1:C:399:GLU:HG2	2.00	0.62
1:D:749:GLN:HA	1:D:774:ARG:O	1.99	0.62
1:E:1015:ILE:CG2	1:F:653:PHE:HB3	2.30	0.62
1:I:390:LEU:HB2	1:I:421:LEU:HD21	1.80	0.62
1:I:1015:ILE:CG2	1:J:653:PHE:HB3	2.28	0.62
1:J:896:LEU:HD13	1:J:917:TRP:CZ3	2.35	0.62
1:K:659:PHE:N	1:K:686:SER:O	2.32	0.62
1:A:826:LYS:HA	1:A:854:ASP:HB3	1.79	0.62
1:B:337:THR:HG22	1:B:339:LEU:H	1.63	0.62
1:F:117:PHE:HE2	1:F:130:LEU:HD13	1.64	0.62
1:F:781:LYS:O	1:F:784:ALA:HB3	2.00	0.62
1:G:390:LEU:HB2	1:G:421:LEU:HD21	1.80	0.62
1:H:117:PHE:HE2	1:H:130:LEU:HD13	1.64	0.62
1:I:808:MET:HG2	1:I:830:CYS:SG	2.39	0.62
1:K:666:LEU:HG	1:K:692:LEU:HD11	1.80	0.62
1:A:551:VAL:HB	1:A:582:LYS:HB3	1.81	0.62
1:B:659:PHE:N	1:B:686:SER:O	2.32	0.62
1:E:117:PHE:HE2	1:E:130:LEU:HD13	1.64	0.62
1:E:896:LEU:HD13	1:E:917:TRP:CZ3	2.35	0.62
1:F:115:LEU:HD21	1:F:181:ARG:HD3	1.81	0.62
1:H:267:GLU:OE1	1:H:270:ARG:NH2	2.33	0.62
1:H:781:LYS:O	1:H:784:ALA:HB3	2.00	0.62
1:J:337:THR:HG22	1:J:339:LEU:H	1.63	0.62
1:K:468:SER:HA	1:K:471:ASN:HB2	1.80	0.61
1:K:1013:SER:HA	1:K:1016:LYS:HB3	1.80	0.61
1:A:479:SER:OG	1:A:480:ILE:N	2.33	0.61
1:E:289:HIS:CE1	1:F:119:PRO:HA	2.34	0.61
1:E:618:GLU:OE1	1:E:619:ARG:NH1	2.34	0.61
1:H:659:PHE:N	1:H:686:SER:O	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:611:PHE:HB3	1:I:661:THR:HG23	1.81	0.61
1:J:659:PHE:N	1:J:686:SER:O	2.32	0.61
1:B:115:LEU:HD21	1:B:181:ARG:HD3	1.81	0.61
1:D:551:VAL:HB	1:D:582:LYS:HB3	1.81	0.61
1:E:749:GLN:HA	1:E:774:ARG:O	1.99	0.61
1:G:399:GLU:O	1:G:403:ALA:N	2.17	0.61
1:H:479:SER:OG	1:H:480:ILE:N	2.33	0.61
1:I:115:LEU:HD21	1:I:181:ARG:HD3	1.81	0.61
1:I:659:PHE:N	1:I:686:SER:O	2.32	0.61
1:J:1013:SER:HA	1:J:1016:LYS:HB3	1.80	0.61
1:A:468:SER:HA	1:A:471:ASN:HB2	1.80	0.61
1:C:468:SER:HA	1:C:471:ASN:HB2	1.80	0.61
1:C:479:SER:OG	1:C:480:ILE:N	2.33	0.61
1:E:115:LEU:HD21	1:E:181:ARG:HD3	1.81	0.61
1:F:551:VAL:HB	1:F:582:LYS:HB3	1.81	0.61
1:F:618:GLU:OE1	1:F:619:ARG:NH1	2.33	0.61
1:G:611:PHE:HB3	1:G:661:THR:HG23	1.81	0.61
1:H:115:LEU:HD21	1:H:181:ARG:HD3	1.81	0.61
1:J:398:LEU:HD22	1:J:402:PHE:CE2	2.35	0.61
1:K:115:LEU:HD21	1:K:181:ARG:HD3	1.81	0.61
1:A:890:TRP:HZ3	1:A:918:ARG:HE	1.48	0.61
1:B:468:SER:HA	1:B:471:ASN:HB2	1.80	0.61
1:C:398:LEU:HD22	1:C:402:PHE:CE2	2.35	0.61
1:C:890:TRP:HZ3	1:C:918:ARG:HE	1.48	0.61
1:F:398:LEU:HD22	1:F:402:PHE:CE2	2.35	0.61
1:F:607:SER:HB3	1:F:655:TRP:CZ2	2.29	0.61
1:F:890:TRP:HZ3	1:F:918:ARG:HE	1.48	0.61
1:H:825:MET:O	1:H:854:ASP:N	2.25	0.61
1:H:896:LEU:HD13	1:H:917:TRP:CZ3	2.35	0.61
1:I:399:GLU:O	1:I:403:ALA:N	2.17	0.61
1:J:611:PHE:HB3	1:J:661:THR:HG23	1.81	0.61
1:D:618:GLU:OE1	1:D:619:ARG:NH1	2.33	0.61
1:D:1015:ILE:CG2	1:E:653:PHE:HB3	2.30	0.61
1:E:398:LEU:HD22	1:E:402:PHE:CE2	2.35	0.61
1:F:479:SER:OG	1:F:480:ILE:N	2.33	0.61
1:G:115:LEU:HD21	1:G:181:ARG:HD3	1.81	0.61
1:G:398:LEU:HD22	1:G:402:PHE:CE2	2.35	0.61
1:G:618:GLU:OE1	1:G:619:ARG:NH1	2.33	0.61
1:H:618:GLU:OE1	1:H:619:ARG:NH1	2.33	0.61
1:I:781:LYS:O	1:I:784:ALA:HB3	2.00	0.61
1:I:781:LYS:NZ	1:I:785:GLU:OE2	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:890:TRP:HZ3	1:I:918:ARG:HE	1.48	0.61
1:J:117:PHE:HE2	1:J:130:LEU:HD13	1.64	0.61
1:B:611:PHE:HB3	1:B:661:THR:HG23	1.81	0.61
1:E:370:LEU:O	1:E:374:ASN:ND2	2.29	0.61
1:K:395:ASP:O	1:K:399:GLU:HG2	2.00	0.61
1:K:398:LEU:HD22	1:K:402:PHE:CE2	2.35	0.61
1:K:781:LYS:O	1:K:784:ALA:HB3	2.00	0.61
1:B:289:HIS:CE1	1:C:119:PRO:HA	2.34	0.61
1:B:398:LEU:HD22	1:B:402:PHE:CE2	2.35	0.61
1:D:611:PHE:HB3	1:D:661:THR:HG23	1.81	0.61
1:D:664:VAL:O	1:D:692:LEU:HD12	2.01	0.61
1:E:664:VAL:O	1:E:692:LEU:HD12	2.01	0.61
1:H:551:VAL:HB	1:H:582:LYS:HB3	1.81	0.61
1:I:398:LEU:HD22	1:I:402:PHE:CE2	2.35	0.61
1:F:611:PHE:HB3	1:F:661:THR:HG23	1.81	0.61
1:I:267:GLU:OE1	1:I:270:ARG:NH2	2.33	0.61
1:I:370:LEU:O	1:I:374:ASN:ND2	2.29	0.61
1:K:618:GLU:OE1	1:K:619:ARG:NH1	2.33	0.61
1:B:551:VAL:HB	1:B:582:LYS:HB3	1.81	0.61
1:C:618:GLU:OE1	1:C:619:ARG:NH1	2.33	0.61
1:J:551:VAL:HB	1:J:582:LYS:HB3	1.81	0.61
1:C:659:PHE:N	1:C:686:SER:O	2.32	0.61
1:D:115:LEU:HD21	1:D:181:ARG:HD3	1.81	0.61
1:I:551:VAL:HB	1:I:582:LYS:HB3	1.81	0.61
1:J:618:GLU:OE1	1:J:619:ARG:NH1	2.34	0.61
1:K:551:VAL:HB	1:K:582:LYS:HB3	1.81	0.60
1:A:865:ASN:HB2	1:A:895:SER:HB3	1.84	0.60
1:B:492:LEU:HD23	1:B:561:LEU:HD23	1.83	0.60
1:B:618:GLU:OE1	1:B:619:ARG:NH1	2.33	0.60
1:C:492:LEU:HD23	1:C:561:LEU:HD23	1.83	0.60
1:G:1015:ILE:CG2	1:H:653:PHE:HB3	2.29	0.60
1:I:896:LEU:HD13	1:I:917:TRP:CZ3	2.35	0.60
1:K:492:LEU:HD23	1:K:561:LEU:HD23	1.83	0.60
1:K:865:ASN:HB2	1:K:895:SER:HB3	1.83	0.60
1:A:492:LEU:HD23	1:A:561:LEU:HD23	1.83	0.60
1:B:267:GLU:OE1	1:B:270:ARG:NH2	2.33	0.60
1:C:664:VAL:O	1:C:692:LEU:HD12	2.01	0.60
1:C:749:GLN:OE1	1:C:749:GLN:N	2.34	0.60
1:D:607:SER:HB3	1:D:655:TRP:CZ2	2.29	0.60
1:F:825:MET:O	1:F:854:ASP:N	2.25	0.60
1:G:607:SER:HB3	1:G:655:TRP:CZ2	2.29	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:664:VAL:O	1:H:692:LEU:HD12	2.01	0.60
1:I:117:PHE:HE2	1:I:130:LEU:HD13	1.64	0.60
1:J:492:LEU:HD23	1:J:561:LEU:HD23	1.83	0.60
1:J:664:VAL:O	1:J:692:LEU:HD12	2.01	0.60
1:K:267:GLU:OE1	1:K:270:ARG:NH2	2.33	0.60
1:K:607:SER:HB3	1:K:655:TRP:CZ2	2.29	0.60
1:K:611:PHE:HB3	1:K:661:THR:HG23	1.81	0.60
1:B:406:PHE:CZ	1:B:445:SER:HA	2.37	0.60
1:B:865:ASN:HB2	1:B:895:SER:HB3	1.84	0.60
1:D:492:LEU:HD23	1:D:561:LEU:HD23	1.83	0.60
1:F:664:VAL:O	1:F:692:LEU:HD12	2.01	0.60
1:I:492:LEU:HD23	1:I:561:LEU:HD23	1.83	0.60
1:K:406:PHE:CZ	1:K:445:SER:HA	2.37	0.60
1:A:618:GLU:OE1	1:A:619:ARG:NH1	2.34	0.60
1:A:749:GLN:OE1	1:A:749:GLN:N	2.34	0.60
1:I:618:GLU:OE1	1:I:619:ARG:NH1	2.33	0.60
1:J:535:GLN:HB2	1:J:613:LYS:HE2	1.84	0.60
1:J:865:ASN:HB2	1:J:895:SER:HB3	1.83	0.60
1:A:535:GLN:HB2	1:A:613:LYS:HE2	1.84	0.60
1:D:420:VAL:O	1:D:423:THR:OG1	2.09	0.60
1:F:703:ARG:O	1:F:706:SER:OG	2.17	0.60
1:F:749:GLN:OE1	1:F:749:GLN:N	2.34	0.60
1:G:825:MET:O	1:G:854:ASP:N	2.25	0.60
1:H:398:LEU:HD22	1:H:402:PHE:CE2	2.35	0.60
1:I:406:PHE:CZ	1:I:445:SER:HA	2.37	0.60
1:I:489:ASN:O	1:I:492:LEU:HB2	2.02	0.60
1:J:781:LYS:NZ	1:J:785:GLU:OE2	2.32	0.60
1:B:664:VAL:O	1:B:692:LEU:HD12	2.01	0.60
1:H:489:ASN:O	1:H:492:LEU:HB2	2.02	0.60
1:H:865:ASN:HB2	1:H:895:SER:HB3	1.83	0.60
1:J:267:GLU:OE1	1:J:270:ARG:NH2	2.33	0.60
1:K:489:ASN:O	1:K:492:LEU:HB2	2.02	0.60
1:B:117:PHE:CE2	1:B:130:LEU:HD13	2.37	0.60
1:B:535:GLN:HB2	1:B:613:LYS:HE2	1.84	0.60
1:C:865:ASN:HB2	1:C:895:SER:HB3	1.84	0.60
1:D:398:LEU:HD22	1:D:402:PHE:CE2	2.35	0.60
1:G:941:GLN:HA	1:G:969:PHE:O	2.02	0.60
1:H:406:PHE:CZ	1:H:445:SER:HA	2.37	0.60
1:H:492:LEU:HD23	1:H:561:LEU:HD23	1.83	0.60
1:I:865:ASN:HB2	1:I:895:SER:HB3	1.84	0.60
1:J:749:GLN:OE1	1:J:749:GLN:N	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:117:PHE:CE2	1:A:130:LEU:HD13	2.37	0.60
1:A:489:ASN:O	1:A:492:LEU:HB2	2.02	0.60
1:C:535:GLN:HB2	1:C:613:LYS:HE2	1.84	0.60
1:E:406:PHE:CZ	1:E:445:SER:HA	2.37	0.60
1:E:492:LEU:HD23	1:E:561:LEU:HD23	1.83	0.60
1:G:703:ARG:O	1:G:706:SER:OG	2.17	0.60
1:G:865:ASN:HB2	1:G:895:SER:HB3	1.83	0.60
1:G:890:TRP:HZ3	1:G:918:ARG:HE	1.48	0.60
1:H:890:TRP:HZ3	1:H:918:ARG:HE	1.48	0.60
1:K:535:GLN:HB2	1:K:613:LYS:HE2	1.84	0.60
1:A:398:LEU:HD22	1:A:402:PHE:CE2	2.35	0.60
1:C:267:GLU:OE1	1:C:270:ARG:NH2	2.33	0.60
1:D:961:PHE:HD2	1:D:990:VAL:HG11	1.67	0.60
1:E:703:ARG:O	1:E:706:SER:OG	2.17	0.60
1:F:117:PHE:CE2	1:F:130:LEU:HD13	2.37	0.60
1:G:479:SER:OG	1:G:480:ILE:N	2.33	0.60
1:I:535:GLN:HB2	1:I:613:LYS:HE2	1.84	0.60
1:I:941:GLN:HA	1:I:969:PHE:O	2.02	0.60
1:A:406:PHE:CZ	1:A:445:SER:HA	2.37	0.60
1:A:991:LEU:HD11	1:A:1018:THR:H	1.67	0.60
1:B:941:GLN:HA	1:B:969:PHE:O	2.02	0.60
1:D:729:GLU:HB2	1:D:755:LEU:HB2	1.84	0.60
1:D:865:ASN:HB2	1:D:895:SER:HB3	1.84	0.60
1:E:117:PHE:CE2	1:E:130:LEU:HD13	2.37	0.60
1:E:865:ASN:HB2	1:E:895:SER:HB3	1.83	0.60
1:F:406:PHE:CZ	1:F:445:SER:HA	2.37	0.60
1:F:865:ASN:HB2	1:F:895:SER:HB3	1.83	0.60
1:F:941:GLN:HA	1:F:969:PHE:O	2.02	0.60
1:J:489:ASN:O	1:J:492:LEU:HB2	2.02	0.60
1:B:890:TRP:HZ3	1:B:918:ARG:HE	1.48	0.59
1:C:489:ASN:O	1:C:492:LEU:HB2	2.02	0.59
1:C:729:GLU:HB2	1:C:755:LEU:HB2	1.84	0.59
1:C:906:THR:HA	1:C:909:LEU:HD22	1.84	0.59
1:E:729:GLU:HB2	1:E:755:LEU:HB2	1.84	0.59
1:F:489:ASN:O	1:F:492:LEU:HB2	2.02	0.59
1:G:492:LEU:HD23	1:G:561:LEU:HD23	1.83	0.59
1:H:535:GLN:HB2	1:H:613:LYS:HE2	1.84	0.59
1:H:607:SER:HB3	1:H:655:TRP:CZ2	2.29	0.59
1:H:729:GLU:HB2	1:H:755:LEU:HB2	1.84	0.59
1:J:941:GLN:HA	1:J:969:PHE:O	2.02	0.59
1:K:664:VAL:O	1:K:692:LEU:HD12	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:941:GLN:HA	1:A:969:PHE:O	2.02	0.59
1:C:941:GLN:HA	1:C:969:PHE:O	2.02	0.59
1:D:267:GLU:OE1	1:D:270:ARG:NH2	2.33	0.59
1:D:406:PHE:CZ	1:D:445:SER:HA	2.37	0.59
1:D:906:THR:HA	1:D:909:LEU:HD22	1.84	0.59
1:E:691:ARG:HG2	1:E:716:THR:HB	1.85	0.59
1:F:691:ARG:HG2	1:F:716:THR:HB	1.85	0.59
1:F:893:HIS:ND1	1:F:918:ARG:O	2.35	0.59
1:G:489:ASN:O	1:G:492:LEU:HB2	2.02	0.59
1:G:893:HIS:ND1	1:G:918:ARG:O	2.35	0.59
1:H:433:GLN:HG2	1:I:125:ASP:N	2.13	0.59
1:H:941:GLN:HA	1:H:969:PHE:O	2.02	0.59
1:J:406:PHE:CZ	1:J:445:SER:HA	2.37	0.59
1:J:607:SER:HB3	1:J:655:TRP:CZ2	2.29	0.59
1:J:991:LEU:HD11	1:J:1018:THR:H	1.67	0.59
1:A:267:GLU:OE1	1:A:270:ARG:NH2	2.33	0.59
1:A:664:VAL:O	1:A:692:LEU:HD12	2.01	0.59
1:B:961:PHE:HD2	1:B:990:VAL:HG11	1.67	0.59
1:C:406:PHE:CZ	1:C:445:SER:HA	2.37	0.59
1:C:991:LEU:HD11	1:C:1018:THR:H	1.68	0.59
1:D:117:PHE:CE2	1:D:130:LEU:HD13	2.37	0.59
1:E:479:SER:OG	1:E:480:ILE:N	2.33	0.59
1:F:729:GLU:HB2	1:F:755:LEU:HB2	1.84	0.59
1:G:117:PHE:CE2	1:G:130:LEU:HD13	2.37	0.59
1:G:429:LYS:HE3	1:G:435:LEU:HD21	1.84	0.59
1:G:729:GLU:HB2	1:G:755:LEU:HB2	1.84	0.59
1:H:691:ARG:HG2	1:H:716:THR:HB	1.85	0.59
1:I:664:VAL:O	1:I:692:LEU:HD12	2.01	0.59
1:I:691:ARG:HG2	1:I:716:THR:HB	1.85	0.59
1:B:893:HIS:ND1	1:B:918:ARG:O	2.35	0.59
1:B:906:THR:HA	1:B:909:LEU:HD22	1.84	0.59
1:D:535:GLN:HB2	1:D:613:LYS:HE2	1.84	0.59
1:D:691:ARG:HG2	1:D:716:THR:HB	1.84	0.59
1:E:749:GLN:N	1:E:749:GLN:OE1	2.34	0.59
1:E:893:HIS:ND1	1:E:918:ARG:O	2.35	0.59
1:F:991:LEU:HD11	1:F:1018:THR:H	1.67	0.59
1:G:749:GLN:OE1	1:G:749:GLN:N	2.34	0.59
1:H:893:HIS:ND1	1:H:918:ARG:O	2.35	0.59
1:H:1015:ILE:CG2	1:I:653:PHE:HB3	2.32	0.59
1:I:729:GLU:HB2	1:I:755:LEU:HB2	1.84	0.59
1:I:893:HIS:ND1	1:I:918:ARG:O	2.35	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:535:GLN:HB2	1:E:613:LYS:HE2	1.84	0.59
1:G:664:VAL:O	1:G:692:LEU:HD12	2.01	0.59
1:H:370:LEU:O	1:H:374:ASN:ND2	2.29	0.59
1:I:607:SER:HB3	1:I:655:TRP:CZ2	2.29	0.59
1:J:825:MET:O	1:J:854:ASP:N	2.25	0.59
1:K:781:LYS:NZ	1:K:785:GLU:OE2	2.32	0.59
1:B:729:GLU:HB2	1:B:755:LEU:HB2	1.84	0.59
1:B:1015:ILE:CG2	1:C:653:PHE:HB3	2.31	0.59
1:C:117:PHE:CE2	1:C:130:LEU:HD13	2.37	0.59
1:D:325:ILE:HB	1:D:332:ARG:HA	1.85	0.59
1:D:659:PHE:N	1:D:686:SER:O	2.32	0.59
1:E:325:ILE:HB	1:E:332:ARG:HA	1.85	0.59
1:E:906:THR:HA	1:E:909:LEU:HD22	1.84	0.59
1:H:117:PHE:CE2	1:H:130:LEU:HD13	2.37	0.59
1:H:703:ARG:O	1:H:706:SER:OG	2.17	0.59
1:H:991:LEU:HD11	1:H:1018:THR:H	1.67	0.59
1:J:729:GLU:HB2	1:J:755:LEU:HB2	1.84	0.59
1:J:893:HIS:ND1	1:J:918:ARG:O	2.35	0.59
1:A:429:LYS:HE3	1:A:435:LEU:HD21	1.84	0.59
1:A:729:GLU:HB2	1:A:755:LEU:HB2	1.84	0.59
1:B:429:LYS:HE3	1:B:435:LEU:HD21	1.84	0.59
1:C:691:ARG:HG2	1:C:716:THR:HB	1.84	0.59
1:D:370:LEU:O	1:D:374:ASN:ND2	2.29	0.59
1:D:893:HIS:ND1	1:D:918:ARG:O	2.35	0.59
1:E:429:LYS:HE3	1:E:435:LEU:HD21	1.84	0.59
1:G:691:ARG:HG2	1:G:716:THR:HB	1.85	0.59
1:K:429:LYS:HE3	1:K:435:LEU:HD21	1.84	0.59
1:K:893:HIS:ND1	1:K:918:ARG:O	2.35	0.59
1:A:893:HIS:ND1	1:A:918:ARG:O	2.35	0.59
1:D:489:ASN:O	1:D:492:LEU:HB2	2.02	0.59
1:E:991:LEU:HD11	1:E:1018:THR:H	1.67	0.59
1:F:535:GLN:HB2	1:F:613:LYS:HE2	1.84	0.59
1:G:406:PHE:CZ	1:G:445:SER:HA	2.37	0.59
1:H:214:GLU:O	1:H:218:ASP:N	2.31	0.59
1:H:961:PHE:HD2	1:H:990:VAL:HG11	1.67	0.59
1:J:691:ARG:HG2	1:J:716:THR:HB	1.85	0.59
1:K:729:GLU:HB2	1:K:755:LEU:HB2	1.84	0.59
1:B:691:ARG:HG2	1:B:716:THR:HB	1.84	0.59
1:C:893:HIS:ND1	1:C:918:ARG:O	2.35	0.59
1:D:144:HIS:HB3	1:E:128:PHE:CE1	2.38	0.59
1:E:267:GLU:OE1	1:E:270:ARG:NH2	2.33	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:409:GLU:HG2	1:E:410:PRO:HD2	1.85	0.59
1:F:492:LEU:HD23	1:F:561:LEU:HD23	1.83	0.59
1:F:961:PHE:HD2	1:F:990:VAL:HG11	1.67	0.59
1:A:906:THR:HA	1:A:909:LEU:HD22	1.84	0.59
1:F:325:ILE:HB	1:F:332:ARG:HA	1.84	0.59
1:F:429:LYS:HE3	1:F:435:LEU:HD21	1.84	0.59
1:F:906:THR:HA	1:F:909:LEU:HD22	1.84	0.59
1:G:535:GLN:HB2	1:G:613:LYS:HE2	1.84	0.59
1:I:117:PHE:CE2	1:I:130:LEU:HD13	2.37	0.59
1:J:117:PHE:CE2	1:J:130:LEU:HD13	2.37	0.59
1:K:117:PHE:CE2	1:K:130:LEU:HD13	2.37	0.58
1:K:749:GLN:N	1:K:749:GLN:OE1	2.34	0.58
1:K:825:MET:O	1:K:854:ASP:N	2.25	0.58
1:A:691:ARG:HG2	1:A:716:THR:HB	1.84	0.58
1:A:961:PHE:HD2	1:A:990:VAL:HG11	1.67	0.58
1:B:489:ASN:O	1:B:492:LEU:HB2	2.02	0.58
1:E:180:GLN:OE1	1:E:180:GLN:N	2.36	0.58
1:E:941:GLN:HA	1:E:969:PHE:O	2.02	0.58
1:G:325:ILE:HB	1:G:332:ARG:HA	1.85	0.58
1:G:409:GLU:HG2	1:G:410:PRO:HD2	1.85	0.58
1:G:991:LEU:HD11	1:G:1018:THR:H	1.67	0.58
1:I:233:LYS:HE2	1:I:237:LEU:HD11	1.85	0.58
1:K:691:ARG:HG2	1:K:716:THR:HB	1.84	0.58
1:K:941:GLN:HA	1:K:969:PHE:O	2.02	0.58
1:K:991:LEU:HD11	1:K:1018:THR:H	1.67	0.58
1:C:607:SER:HB3	1:C:655:TRP:CZ2	2.29	0.58
1:E:122:GLU:HA	1:E:123:ASP:HB3	1.85	0.58
1:E:961:PHE:HD2	1:E:990:VAL:HG11	1.67	0.58
1:G:961:PHE:HD2	1:G:990:VAL:HG11	1.67	0.58
1:H:233:LYS:HE2	1:H:237:LEU:HD11	1.85	0.58
1:H:429:LYS:HE3	1:H:435:LEU:HD21	1.84	0.58
1:H:906:THR:HA	1:H:909:LEU:HD22	1.84	0.58
1:J:180:GLN:OE1	1:J:180:GLN:N	2.36	0.58
1:J:429:LYS:HE3	1:J:435:LEU:HD21	1.84	0.58
1:J:524:THR:OG1	1:J:530:ARG:NH1	2.28	0.58
1:K:180:GLN:N	1:K:180:GLN:OE1	2.36	0.58
1:K:906:THR:HA	1:K:909:LEU:HD22	1.84	0.58
1:K:961:PHE:HD2	1:K:990:VAL:HG11	1.67	0.58
1:A:825:MET:O	1:A:854:ASP:N	2.25	0.58
1:C:325:ILE:HB	1:C:332:ARG:HA	1.85	0.58
1:D:916:ASN:N	1:D:945:ALA:HB3	2.15	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:489:ASN:O	1:E:492:LEU:HB2	2.02	0.58
1:E:916:ASN:N	1:E:945:ALA:HB3	2.15	0.58
1:F:180:GLN:OE1	1:F:180:GLN:N	2.36	0.58
1:H:180:GLN:N	1:H:180:GLN:OE1	2.36	0.58
1:I:180:GLN:OE1	1:I:180:GLN:N	2.36	0.58
1:I:906:THR:HA	1:I:909:LEU:HD22	1.84	0.58
1:D:180:GLN:OE1	1:D:180:GLN:N	2.36	0.58
1:D:941:GLN:HA	1:D:969:PHE:O	2.02	0.58
1:G:180:GLN:OE1	1:G:180:GLN:N	2.36	0.58
1:H:325:ILE:HB	1:H:332:ARG:HA	1.84	0.58
1:I:429:LYS:HE3	1:I:435:LEU:HD21	1.84	0.58
1:J:325:ILE:HB	1:J:332:ARG:HA	1.85	0.58
1:J:906:THR:HA	1:J:909:LEU:HD22	1.84	0.58
1:A:781:LYS:NZ	1:A:785:GLU:OE2	2.32	0.58
1:C:429:LYS:HE3	1:C:435:LEU:HD21	1.84	0.58
1:C:961:PHE:HD2	1:C:990:VAL:HG11	1.67	0.58
1:D:122:GLU:HA	1:D:123:ASP:HB3	1.85	0.58
1:F:122:GLU:HA	1:F:123:ASP:HB3	1.85	0.58
1:G:906:THR:HA	1:G:909:LEU:HD22	1.84	0.58
1:A:180:GLN:OE1	1:A:180:GLN:N	2.36	0.58
1:C:916:ASN:N	1:C:945:ALA:HB3	2.15	0.58
1:G:859:TYR:HD1	1:G:889:CYS:HA	1.69	0.58
1:I:961:PHE:HD2	1:I:990:VAL:HG11	1.67	0.58
1:I:991:LEU:HD11	1:I:1018:THR:H	1.67	0.58
1:B:420:VAL:O	1:B:423:THR:OG1	2.09	0.58
1:B:991:LEU:HD11	1:B:1018:THR:H	1.67	0.58
1:B:749:GLN:OE1	1:B:749:GLN:N	2.34	0.58
1:C:409:GLU:HG2	1:C:410:PRO:HD2	1.85	0.58
1:D:991:LEU:HD11	1:D:1018:THR:H	1.67	0.58
1:H:749:GLN:N	1:H:749:GLN:OE1	2.34	0.58
1:A:892:VAL:O	1:A:895:SER:OG	2.15	0.58
1:D:961:PHE:CD2	1:D:990:VAL:HG11	2.39	0.58
1:E:859:TYR:HD1	1:E:889:CYS:HA	1.69	0.58
1:E:961:PHE:CD2	1:E:990:VAL:HG11	2.39	0.58
1:F:859:TYR:HD1	1:F:889:CYS:HA	1.69	0.58
1:G:144:HIS:HB3	1:H:128:PHE:CE1	2.39	0.58
1:J:961:PHE:HD2	1:J:990:VAL:HG11	1.67	0.58
1:D:429:LYS:HE3	1:D:435:LEU:HD21	1.84	0.58
1:G:233:LYS:HE2	1:G:237:LEU:HD11	1.85	0.58
1:G:916:ASN:N	1:G:945:ALA:HB3	2.15	0.58
1:H:859:TYR:HD1	1:H:889:CYS:HA	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:325:ILE:HB	1:K:332:ARG:HA	1.85	0.57
1:K:409:GLU:HG2	1:K:410:PRO:HD2	1.85	0.57
1:A:325:ILE:HB	1:A:332:ARG:HA	1.85	0.57
1:C:122:GLU:HA	1:C:123:ASP:HB3	1.85	0.57
1:C:180:GLN:N	1:C:180:GLN:OE1	2.36	0.57
1:E:524:THR:OG1	1:E:530:ARG:NH1	2.28	0.57
1:H:409:GLU:HG2	1:H:410:PRO:HD2	1.85	0.57
1:J:233:LYS:HE2	1:J:237:LEU:HD11	1.85	0.57
1:B:781:LYS:NZ	1:B:785:GLU:OE2	2.32	0.57
1:B:916:ASN:N	1:B:945:ALA:HB3	2.15	0.57
1:C:859:TYR:HD1	1:C:889:CYS:HA	1.69	0.57
1:D:409:GLU:HG2	1:D:410:PRO:HD2	1.85	0.57
1:D:749:GLN:OE1	1:D:749:GLN:N	2.34	0.57
1:I:214:GLU:O	1:I:218:ASP:N	2.31	0.57
1:J:122:GLU:HA	1:J:123:ASP:HB3	1.85	0.57
1:K:402:PHE:HA	1:K:487:TYR:CE1	2.40	0.57
1:B:325:ILE:HB	1:B:332:ARG:HA	1.85	0.57
1:C:420:VAL:O	1:C:423:THR:OG1	2.09	0.57
1:C:961:PHE:CD2	1:C:990:VAL:HG11	2.39	0.57
1:D:233:LYS:HE2	1:D:237:LEU:HD11	1.85	0.57
1:F:402:PHE:HA	1:F:487:TYR:CE1	2.40	0.57
1:G:122:GLU:HA	1:G:123:ASP:HB3	1.85	0.57
1:I:122:GLU:HA	1:I:123:ASP:HB3	1.85	0.57
1:A:409:GLU:HG2	1:A:410:PRO:HD2	1.85	0.57
1:A:961:PHE:CD2	1:A:990:VAL:HG11	2.39	0.57
1:B:180:GLN:OE1	1:B:180:GLN:N	2.37	0.57
1:B:402:PHE:HA	1:B:487:TYR:CE1	2.40	0.57
1:F:409:GLU:HG2	1:F:410:PRO:HD2	1.85	0.57
1:F:961:PHE:CD2	1:F:990:VAL:HG11	2.39	0.57
1:F:1011:ASP:OD2	1:G:679:TYR:CE1	2.56	0.57
1:I:325:ILE:HB	1:I:332:ARG:HA	1.84	0.57
1:I:402:PHE:HA	1:I:487:TYR:CE1	2.40	0.57
1:I:409:GLU:HG2	1:I:410:PRO:HD2	1.85	0.57
1:I:859:TYR:HD1	1:I:889:CYS:HA	1.69	0.57
1:K:122:GLU:HA	1:K:123:ASP:HB3	1.85	0.57
1:A:402:PHE:HA	1:A:487:TYR:CE1	2.40	0.57
1:B:859:TYR:HD1	1:B:889:CYS:HA	1.69	0.57
1:C:402:PHE:HA	1:C:487:TYR:CE1	2.40	0.57
1:E:233:LYS:HE2	1:E:237:LEU:HD11	1.85	0.57
1:E:402:PHE:HA	1:E:487:TYR:CE1	2.40	0.57
1:H:402:PHE:HA	1:H:487:TYR:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:233:LYS:HE2	1:A:237:LEU:HD11	1.85	0.57
1:C:233:LYS:HE2	1:C:237:LEU:HD11	1.85	0.57
1:C:781:LYS:NZ	1:C:785:GLU:OE2	2.32	0.57
1:E:921:ASP:HA	1:E:949:VAL:HG22	1.87	0.57
1:F:144:HIS:HB3	1:G:128:PHE:CE1	2.39	0.57
1:F:524:THR:OG1	1:F:530:ARG:NH1	2.28	0.57
1:F:921:ASP:HA	1:F:949:VAL:HG22	1.87	0.57
1:G:781:LYS:NZ	1:G:785:GLU:OE2	2.32	0.57
1:I:479:SER:OG	1:I:480:ILE:N	2.33	0.57
1:I:961:PHE:CD2	1:I:990:VAL:HG11	2.39	0.57
1:J:916:ASN:N	1:J:945:ALA:HB3	2.15	0.57
1:F:233:LYS:HE2	1:F:237:LEU:HD11	1.85	0.57
1:F:916:ASN:N	1:F:945:ALA:HB3	2.15	0.57
1:H:865:ASN:HB3	1:H:892:VAL:HA	1.86	0.57
1:I:985:ARG:O	1:I:988:SER:OG	2.19	0.57
1:J:409:GLU:HG2	1:J:410:PRO:HD2	1.85	0.57
1:A:1011:ASP:OD2	1:B:679:TYR:CE1	2.57	0.57
1:I:144:HIS:HB3	1:J:128:PHE:CE1	2.40	0.57
1:I:1011:ASP:OD2	1:J:679:TYR:CE1	2.57	0.57
1:K:233:LYS:HE2	1:K:237:LEU:HD11	1.85	0.57
1:K:865:ASN:HB3	1:K:892:VAL:HA	1.86	0.57
1:B:122:GLU:HA	1:B:123:ASP:HB3	1.85	0.57
1:B:233:LYS:HE2	1:B:237:LEU:HD11	1.85	0.57
1:C:370:LEU:O	1:C:374:ASN:ND2	2.29	0.57
1:G:865:ASN:HB3	1:G:892:VAL:HA	1.86	0.57
1:H:524:THR:OG1	1:H:530:ARG:NH1	2.28	0.57
1:I:865:ASN:HB3	1:I:892:VAL:HA	1.86	0.57
1:J:859:TYR:HD1	1:J:889:CYS:HA	1.69	0.57
1:A:524:THR:OG1	1:A:530:ARG:NH1	2.28	0.57
1:D:859:TYR:HD1	1:D:889:CYS:HA	1.69	0.57
1:D:974:THR:HG21	1:D:977:PHE:HD1	1.70	0.57
1:D:1011:ASP:OD2	1:E:679:TYR:CE1	2.57	0.57
1:A:144:HIS:HB3	1:B:128:PHE:CE1	2.40	0.56
1:B:409:GLU:HG2	1:B:410:PRO:HD2	1.85	0.56
1:B:961:PHE:CD2	1:B:990:VAL:HG11	2.39	0.56
1:C:921:ASP:HA	1:C:949:VAL:HG22	1.87	0.56
1:D:921:ASP:HA	1:D:949:VAL:HG22	1.87	0.56
1:G:370:LEU:O	1:G:374:ASN:ND2	2.29	0.56
1:G:524:THR:OG1	1:G:530:ARG:NH1	2.28	0.56
1:G:921:ASP:HA	1:G:949:VAL:HG22	1.87	0.56
1:H:122:GLU:HA	1:H:123:ASP:HB3	1.85	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:865:ASN:HB3	1:J:892:VAL:HA	1.86	0.56
1:A:122:GLU:HA	1:A:123:ASP:HB3	1.85	0.56
1:A:865:ASN:HB3	1:A:892:VAL:HA	1.86	0.56
1:A:916:ASN:N	1:A:945:ALA:HB3	2.15	0.56
1:C:144:HIS:HB3	1:D:128:PHE:CE1	2.40	0.56
1:D:402:PHE:HA	1:D:487:TYR:CE1	2.40	0.56
1:E:781:LYS:NZ	1:E:785:GLU:OE2	2.32	0.56
1:E:787:LEU:HD23	1:E:790:LEU:HD12	1.87	0.56
1:G:961:PHE:CD2	1:G:990:VAL:HG11	2.39	0.56
1:J:214:GLU:O	1:J:218:ASP:N	2.31	0.56
1:K:859:TYR:HD1	1:K:889:CYS:HA	1.69	0.56
1:K:921:ASP:HA	1:K:949:VAL:HG22	1.87	0.56
1:C:433:GLN:HG2	1:D:125:ASP:N	2.12	0.56
1:C:865:ASN:HB3	1:C:892:VAL:HA	1.86	0.56
1:C:974:THR:HG21	1:C:977:PHE:HD1	1.70	0.56
1:D:781:LYS:NZ	1:D:785:GLU:OE2	2.32	0.56
1:E:165:CYS:HB2	1:E:277:VAL:H	1.71	0.56
1:E:456:SER:HB3	1:E:497:SER:HB3	1.87	0.56
1:E:865:ASN:HB3	1:E:892:VAL:HA	1.86	0.56
1:F:534:ILE:HD11	1:F:716:THR:HG22	1.88	0.56
1:G:402:PHE:HA	1:G:487:TYR:CE1	2.40	0.56
1:H:130:LEU:HD22	1:H:177:THR:OG1	2.06	0.56
1:I:749:GLN:OE1	1:I:749:GLN:N	2.34	0.56
1:I:869:GLN:HG3	1:I:898:LYS:HD3	1.88	0.56
1:J:402:PHE:HA	1:J:487:TYR:CE1	2.40	0.56
1:J:961:PHE:CD2	1:J:990:VAL:HG11	2.39	0.56
1:K:961:PHE:CD2	1:K:990:VAL:HG11	2.39	0.56
1:A:433:GLN:HG2	1:B:125:ASP:N	2.12	0.56
1:A:859:TYR:HD1	1:A:889:CYS:HA	1.69	0.56
1:B:974:THR:HG21	1:B:977:PHE:HD1	1.70	0.56
1:D:865:ASN:HB3	1:D:892:VAL:HA	1.86	0.56
1:F:130:LEU:HD22	1:F:177:THR:OG1	2.06	0.56
1:G:165:CYS:HB2	1:G:277:VAL:H	1.71	0.56
1:G:1011:ASP:OD2	1:H:679:TYR:CE1	2.58	0.56
1:J:787:LEU:HD23	1:J:790:LEU:HD12	1.87	0.56
1:D:787:LEU:HD23	1:D:790:LEU:HD12	1.87	0.56
1:F:165:CYS:HB2	1:F:277:VAL:H	1.71	0.56
1:F:456:SER:HB3	1:F:497:SER:HB3	1.88	0.56
1:F:787:LEU:HD23	1:F:790:LEU:HD12	1.87	0.56
1:F:865:ASN:HB3	1:F:892:VAL:HA	1.86	0.56
1:G:869:GLN:HG3	1:G:898:LYS:HD3	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:165:CYS:HB2	1:I:277:VAL:H	1.71	0.56
1:A:787:LEU:HD23	1:A:790:LEU:HD12	1.87	0.56
1:B:607:SER:HB3	1:B:655:TRP:CZ2	2.29	0.56
1:D:433:GLN:HG2	1:E:125:ASP:N	2.13	0.56
1:F:974:THR:HG21	1:F:977:PHE:HD1	1.70	0.56
1:G:787:LEU:HD23	1:G:790:LEU:HD12	1.87	0.56
1:H:961:PHE:CD2	1:H:990:VAL:HG11	2.39	0.56
1:K:128:PHE:CE1	1:J:144:HIS:HB3	2.41	0.56
1:K:214:GLU:O	1:K:218:ASP:N	2.31	0.56
1:B:144:HIS:HB3	1:C:128:PHE:CE1	2.41	0.56
1:B:865:ASN:HB3	1:B:892:VAL:HA	1.86	0.56
1:B:921:ASP:HA	1:B:949:VAL:HG22	1.87	0.56
1:G:433:GLN:HG2	1:H:125:ASP:N	2.12	0.56
1:H:395:ASP:HA	1:H:398:LEU:HB2	1.88	0.56
1:K:130:LEU:HD22	1:K:177:THR:OG1	2.06	0.56
1:C:422:VAL:HG22	1:C:427:LEU:O	2.06	0.56
1:D:456:SER:HB3	1:D:497:SER:HB3	1.88	0.56
1:E:130:LEU:HD22	1:E:177:THR:OG1	2.06	0.56
1:E:974:THR:HG21	1:E:977:PHE:HD1	1.70	0.56
1:F:395:ASP:HA	1:F:398:LEU:HB2	1.88	0.56
1:H:182:ILE:O	1:H:185:LEU:HB2	2.06	0.56
1:H:357:HIS:HE1	1:H:564:GLU:HA	1.71	0.56
1:H:534:ILE:HD11	1:H:716:THR:HG22	1.88	0.56
1:H:921:ASP:HA	1:H:949:VAL:HG22	1.87	0.56
1:J:182:ILE:O	1:J:185:LEU:HB2	2.06	0.56
1:J:395:ASP:HA	1:J:398:LEU:HB2	1.88	0.56
1:K:869:GLN:HG3	1:K:898:LYS:HD3	1.88	0.56
1:B:433:GLN:HG2	1:C:125:ASP:N	2.14	0.56
1:E:448:GLU:OE1	1:E:493:TYR:OH	2.17	0.56
1:F:182:ILE:O	1:F:185:LEU:HB2	2.06	0.56
1:J:130:LEU:HD22	1:J:177:THR:OG1	2.06	0.56
1:J:357:HIS:HE1	1:J:564:GLU:HA	1.71	0.56
1:K:916:ASN:N	1:K:945:ALA:HB3	2.15	0.56
1:B:422:VAL:HG22	1:B:427:LEU:O	2.06	0.56
1:C:787:LEU:HD23	1:C:790:LEU:HD12	1.87	0.56
1:D:422:VAL:HG22	1:D:427:LEU:O	2.06	0.56
1:E:395:ASP:HA	1:E:398:LEU:HB2	1.88	0.56
1:E:433:GLN:HG2	1:F:125:ASP:N	2.13	0.56
1:G:395:ASP:HA	1:G:398:LEU:HB2	1.88	0.56
1:H:165:CYS:HB2	1:H:277:VAL:H	1.71	0.56
1:H:422:VAL:HG22	1:H:427:LEU:O	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:130:LEU:HD22	1:I:177:THR:OG1	2.06	0.56
1:I:534:ILE:HD11	1:I:716:THR:HG22	1.88	0.56
1:J:560:ASN:O	1:J:563:SER:OG	2.19	0.56
1:J:869:GLN:HG3	1:J:898:LYS:HD3	1.88	0.56
1:A:869:GLN:HG3	1:A:898:LYS:HD3	1.88	0.55
1:A:974:THR:HG21	1:A:977:PHE:HD1	1.70	0.55
1:D:395:ASP:HA	1:D:398:LEU:HB2	1.88	0.55
1:H:787:LEU:HD23	1:H:790:LEU:HD12	1.87	0.55
1:A:214:GLU:O	1:A:218:ASP:N	2.31	0.55
1:A:395:ASP:HA	1:A:398:LEU:HB2	1.88	0.55
1:C:456:SER:HB3	1:C:497:SER:HB3	1.88	0.55
1:D:357:HIS:HE1	1:D:564:GLU:HA	1.71	0.55
1:E:357:HIS:HE1	1:E:564:GLU:HA	1.71	0.55
1:G:456:SER:HB3	1:G:497:SER:HB3	1.88	0.55
1:I:395:ASP:HA	1:I:398:LEU:HB2	1.88	0.55
1:I:921:ASP:HA	1:I:949:VAL:HG22	1.87	0.55
1:A:422:VAL:HG22	1:A:427:LEU:O	2.06	0.55
1:D:130:LEU:HD22	1:D:177:THR:OG1	2.06	0.55
1:E:422:VAL:HG22	1:E:427:LEU:O	2.06	0.55
1:E:869:GLN:HG3	1:E:898:LYS:HD3	1.88	0.55
1:G:974:THR:HG21	1:G:977:PHE:HD1	1.70	0.55
1:H:916:ASN:N	1:H:945:ALA:HB3	2.15	0.55
1:I:182:ILE:O	1:I:185:LEU:HB2	2.06	0.55
1:K:395:ASP:HA	1:K:398:LEU:HB2	1.88	0.55
1:A:357:HIS:HE1	1:A:564:GLU:HA	1.71	0.55
1:C:892:VAL:O	1:C:895:SER:OG	2.15	0.55
1:D:534:ILE:HD11	1:D:716:THR:HG22	1.88	0.55
1:J:165:CYS:HB2	1:J:277:VAL:H	1.71	0.55
1:J:921:ASP:HA	1:J:949:VAL:HG22	1.87	0.55
1:K:422:VAL:HG22	1:K:427:LEU:O	2.06	0.55
1:A:130:LEU:HD22	1:A:177:THR:OG1	2.06	0.55
1:A:182:ILE:O	1:A:185:LEU:HB2	2.06	0.55
1:C:1011:ASP:OD2	1:D:679:TYR:CE1	2.57	0.55
1:D:882:THR:O	1:D:910:ALA:N	2.40	0.55
1:E:882:THR:O	1:E:910:ALA:N	2.40	0.55
1:F:882:THR:O	1:F:910:ALA:N	2.40	0.55
1:G:182:ILE:O	1:G:185:LEU:HB2	2.06	0.55
1:I:916:ASN:N	1:I:945:ALA:HB3	2.15	0.55
1:I:974:THR:HG21	1:I:977:PHE:HD1	1.70	0.55
1:K:357:HIS:HE1	1:K:564:GLU:HA	1.71	0.55
1:K:787:LEU:HD23	1:K:790:LEU:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:165:CYS:HB2	1:B:277:VAL:H	1.71	0.55
1:B:395:ASP:HA	1:B:398:LEU:HB2	1.88	0.55
1:C:130:LEU:HD22	1:C:177:THR:OG1	2.06	0.55
1:C:882:THR:O	1:C:910:ALA:N	2.40	0.55
1:D:165:CYS:HB2	1:D:277:VAL:H	1.71	0.55
1:E:144:HIS:HB3	1:F:128:PHE:CE1	2.41	0.55
1:E:1011:ASP:OD2	1:F:679:TYR:CE1	2.59	0.55
1:I:267:GLU:O	1:I:271:PHE:HB2	2.07	0.55
1:I:422:VAL:HG22	1:I:427:LEU:O	2.06	0.55
1:J:422:VAL:HG22	1:J:427:LEU:O	2.06	0.55
1:J:456:SER:HB3	1:J:497:SER:HB3	1.88	0.55
1:J:974:THR:HG21	1:J:977:PHE:HD1	1.70	0.55
1:A:165:CYS:HB2	1:A:277:VAL:H	1.71	0.55
1:A:415:SER:C	1:A:417:ASN:H	2.10	0.55
1:A:921:ASP:HA	1:A:949:VAL:HG22	1.87	0.55
1:B:370:LEU:O	1:B:374:ASN:ND2	2.29	0.55
1:B:415:SER:C	1:B:417:ASN:H	2.10	0.55
1:B:882:THR:O	1:B:910:ALA:N	2.40	0.55
1:C:357:HIS:HE1	1:C:564:GLU:HA	1.71	0.55
1:E:534:ILE:HD11	1:E:716:THR:HG22	1.88	0.55
1:F:357:HIS:HE1	1:F:564:GLU:HA	1.71	0.55
1:G:130:LEU:HD22	1:G:177:THR:OG1	2.06	0.55
1:G:267:GLU:O	1:G:271:PHE:HB2	2.07	0.55
1:G:534:ILE:HD11	1:G:716:THR:HG22	1.88	0.55
1:H:267:GLU:O	1:H:271:PHE:HB2	2.07	0.55
1:H:889:CYS:H	1:H:892:VAL:HB	1.72	0.55
1:B:130:LEU:HD22	1:B:177:THR:OG1	2.06	0.55
1:B:456:SER:HB3	1:B:497:SER:HB3	1.88	0.55
1:B:787:LEU:HD23	1:B:790:LEU:HD12	1.87	0.55
1:G:882:THR:O	1:G:910:ALA:N	2.40	0.55
1:H:144:HIS:HB3	1:I:128:PHE:CE1	2.41	0.55
1:H:869:GLN:HG3	1:H:898:LYS:HD3	1.88	0.55
1:I:456:SER:HB3	1:I:497:SER:HB3	1.88	0.55
1:I:889:CYS:H	1:I:892:VAL:HB	1.72	0.55
1:J:267:GLU:O	1:J:271:PHE:HB2	2.07	0.55
1:K:313:LEU:HD23	1:K:317:GLN:HG2	1.89	0.55
1:K:456:SER:HB3	1:K:497:SER:HB3	1.88	0.55
1:C:395:ASP:HA	1:C:398:LEU:HB2	1.88	0.55
1:C:869:GLN:HG3	1:C:898:LYS:HD3	1.88	0.55
1:D:182:ILE:O	1:D:185:LEU:HB2	2.06	0.55
1:J:313:LEU:HD23	1:J:317:GLN:HG2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:267:GLU:O	1:K:271:PHE:HB2	2.07	0.55
1:K:534:ILE:HD11	1:K:716:THR:HG22	1.88	0.55
1:A:882:THR:O	1:A:910:ALA:N	2.40	0.55
1:B:214:GLU:O	1:B:218:ASP:N	2.31	0.55
1:D:165:CYS:O	1:D:277:VAL:HB	2.07	0.55
1:E:165:CYS:O	1:E:277:VAL:HB	2.07	0.55
1:F:267:GLU:O	1:F:271:PHE:HB2	2.07	0.55
1:F:422:VAL:HG22	1:F:427:LEU:O	2.06	0.55
1:G:889:CYS:H	1:G:892:VAL:HB	1.72	0.55
1:H:456:SER:HB3	1:H:497:SER:HB3	1.88	0.55
1:I:165:CYS:O	1:I:277:VAL:HB	2.07	0.55
1:K:182:ILE:O	1:K:185:LEU:HB2	2.06	0.54
1:A:267:GLU:O	1:A:271:PHE:HB2	2.07	0.54
1:B:1011:ASP:OD2	1:C:679:TYR:CE1	2.59	0.54
1:F:165:CYS:O	1:F:277:VAL:HB	2.07	0.54
1:I:357:HIS:HE1	1:I:564:GLU:HA	1.71	0.54
1:J:882:THR:O	1:J:910:ALA:N	2.40	0.54
1:K:882:THR:O	1:K:910:ALA:N	2.40	0.54
1:F:869:GLN:HG3	1:F:898:LYS:HD3	1.88	0.54
1:H:313:LEU:HD23	1:H:317:GLN:HG2	1.89	0.54
1:I:313:LEU:HD23	1:I:317:GLN:HG2	1.89	0.54
1:I:787:LEU:HD23	1:I:790:LEU:HD12	1.87	0.54
1:A:456:SER:HB3	1:A:497:SER:HB3	1.88	0.54
1:B:182:ILE:O	1:B:185:LEU:HB2	2.06	0.54
1:B:267:GLU:O	1:B:271:PHE:HB2	2.07	0.54
1:D:214:GLU:O	1:D:218:ASP:N	2.31	0.54
1:E:267:GLU:O	1:E:271:PHE:HB2	2.07	0.54
1:F:781:LYS:NZ	1:F:785:GLU:OE2	2.32	0.54
1:G:560:ASN:O	1:G:563:SER:OG	2.19	0.54
1:H:882:THR:O	1:H:910:ALA:N	2.40	0.54
1:A:165:CYS:O	1:A:277:VAL:HB	2.07	0.54
1:A:313:LEU:HD23	1:A:317:GLN:HG2	1.89	0.54
1:B:869:GLN:HG3	1:B:898:LYS:HD3	1.88	0.54
1:C:165:CYS:O	1:C:277:VAL:HB	2.07	0.54
1:C:267:GLU:O	1:C:271:PHE:HB2	2.07	0.54
1:D:267:GLU:O	1:D:271:PHE:HB2	2.07	0.54
1:E:117:PHE:HB2	1:E:128:PHE:O	2.08	0.54
1:E:825:MET:N	1:E:852:ILE:O	2.40	0.54
1:F:415:SER:C	1:F:417:ASN:H	2.10	0.54
1:G:165:CYS:O	1:G:277:VAL:HB	2.07	0.54
1:I:649:VAL:O	1:I:652:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:649:VAL:O	1:J:652:PHE:N	2.41	0.54
1:K:974:THR:HG21	1:K:977:PHE:HD1	1.70	0.54
1:A:534:ILE:HD11	1:A:716:THR:HG22	1.88	0.54
1:B:117:PHE:HB2	1:B:128:PHE:O	2.08	0.54
1:B:357:HIS:HE1	1:B:564:GLU:HA	1.71	0.54
1:B:889:CYS:H	1:B:892:VAL:HB	1.72	0.54
1:C:117:PHE:HB2	1:C:128:PHE:O	2.08	0.54
1:C:165:CYS:HB2	1:C:277:VAL:H	1.71	0.54
1:C:415:SER:C	1:C:417:ASN:H	2.10	0.54
1:C:534:ILE:HD11	1:C:716:THR:HG22	1.88	0.54
1:D:445:SER:O	1:D:448:GLU:HG3	2.08	0.54
1:F:445:SER:O	1:F:448:GLU:HG3	2.08	0.54
1:F:889:CYS:H	1:F:892:VAL:HB	1.72	0.54
1:G:422:VAL:HG22	1:G:427:LEU:O	2.06	0.54
1:H:649:VAL:O	1:H:652:PHE:N	2.41	0.54
1:I:882:THR:O	1:I:910:ALA:N	2.40	0.54
1:J:534:ILE:HD11	1:J:716:THR:HG22	1.88	0.54
1:J:889:CYS:H	1:J:892:VAL:HB	1.72	0.54
1:K:415:SER:C	1:K:417:ASN:H	2.10	0.54
1:K:1011:ASP:OD2	1:A:679:TYR:HE1	1.91	0.54
1:A:560:ASN:O	1:A:563:SER:OG	2.19	0.54
1:B:445:SER:O	1:B:448:GLU:HG3	2.08	0.54
1:B:534:ILE:HD11	1:B:716:THR:HG22	1.88	0.54
1:C:182:ILE:O	1:C:185:LEU:HB2	2.06	0.54
1:C:889:CYS:H	1:C:892:VAL:HB	1.72	0.54
1:G:357:HIS:HE1	1:G:564:GLU:HA	1.71	0.54
1:H:1011:ASP:OD2	1:I:679:TYR:CE1	2.60	0.54
1:I:445:SER:O	1:I:448:GLU:HG3	2.08	0.54
1:A:744:HIS:O	1:A:745:ARG:HD2	2.08	0.54
1:A:889:CYS:H	1:A:892:VAL:HB	1.72	0.54
1:A:946:GLY:N	1:A:973:SER:OG	2.41	0.54
1:B:756:ILE:HG22	1:B:783:LEU:HD13	1.90	0.54
1:B:946:GLY:N	1:B:973:SER:OG	2.41	0.54
1:C:364:GLN:HA	1:C:367:TYR:CD2	2.32	0.54
1:C:744:HIS:O	1:C:745:ARG:HD2	2.08	0.54
1:D:889:CYS:H	1:D:892:VAL:HB	1.72	0.54
1:E:313:LEU:HD23	1:E:317:GLN:HG2	1.89	0.54
1:E:415:SER:C	1:E:417:ASN:H	2.10	0.54
1:G:250:TYR:CD2	1:G:279:THR:HA	2.43	0.54
1:G:445:SER:O	1:G:448:GLU:HG3	2.08	0.54
1:G:649:VAL:O	1:G:652:PHE:N	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:165:CYS:O	1:H:277:VAL:HB	2.07	0.54
1:K:165:CYS:O	1:K:277:VAL:HB	2.07	0.54
1:K:445:SER:O	1:K:448:GLU:HG3	2.08	0.54
1:C:214:GLU:O	1:C:218:ASP:N	2.31	0.54
1:C:756:ILE:HG22	1:C:783:LEU:HD13	1.90	0.54
1:E:182:ILE:O	1:E:185:LEU:HB2	2.06	0.54
1:E:214:GLU:O	1:E:218:ASP:N	2.31	0.54
1:E:889:CYS:H	1:E:892:VAL:HB	1.72	0.54
1:H:250:TYR:CD2	1:H:279:THR:HA	2.43	0.54
1:A:117:PHE:HB2	1:A:128:PHE:O	2.08	0.54
1:B:165:CYS:O	1:B:277:VAL:HB	2.07	0.54
1:B:313:LEU:HD23	1:B:317:GLN:HG2	1.89	0.54
1:C:946:GLY:N	1:C:973:SER:OG	2.41	0.54
1:D:117:PHE:HB2	1:D:128:PHE:O	2.08	0.54
1:D:825:MET:N	1:D:852:ILE:O	2.40	0.54
1:D:869:GLN:HG3	1:D:898:LYS:HD3	1.88	0.54
1:E:560:ASN:O	1:E:563:SER:OG	2.19	0.54
1:J:165:CYS:O	1:J:277:VAL:HB	2.07	0.54
1:K:181:ARG:HH11	1:K:184:MET:HB3	1.73	0.54
1:F:250:TYR:CD2	1:F:279:THR:HA	2.43	0.54
1:F:744:HIS:O	1:F:745:ARG:HD2	2.08	0.54
1:G:181:ARG:HH11	1:G:184:MET:HB3	1.73	0.54
1:G:313:LEU:HD23	1:G:317:GLN:HG2	1.89	0.54
1:H:677:ILE:O	1:H:680:LEU:HB2	2.08	0.54
1:I:250:TYR:CD2	1:I:279:THR:HA	2.43	0.54
1:J:445:SER:O	1:J:448:GLU:HG3	2.08	0.54
1:K:165:CYS:HB2	1:K:277:VAL:H	1.71	0.53
1:A:181:ARG:HH11	1:A:184:MET:HB3	1.73	0.53
1:A:674:LYS:HA	1:A:677:ILE:HG12	1.91	0.53
1:B:101:LEU:HD11	1:B:224:PRO:HG2	1.90	0.53
1:C:313:LEU:HD23	1:C:317:GLN:HG2	1.89	0.53
1:D:921:ASP:OD1	1:D:950:SER:OG	2.25	0.53
1:E:181:ARG:HH11	1:E:184:MET:HB3	1.74	0.53
1:E:445:SER:O	1:E:448:GLU:HG3	2.08	0.53
1:E:856:SER:HB2	1:E:915:LYS:HD3	1.90	0.53
1:F:456:SER:CB	1:F:497:SER:HB3	2.38	0.53
1:H:415:SER:C	1:H:417:ASN:H	2.10	0.53
1:H:974:THR:HG21	1:H:977:PHE:HD1	1.70	0.53
1:I:181:ARG:HH11	1:I:184:MET:HB3	1.74	0.53
1:J:250:TYR:CD2	1:J:279:THR:HA	2.43	0.53
1:J:677:ILE:O	1:J:680:LEU:HB2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:946:GLY:N	1:K:973:SER:OG	2.41	0.53
1:A:791:LYS:O	1:A:821:ASP:HB2	2.09	0.53
1:C:856:SER:HB2	1:C:915:LYS:HD3	1.90	0.53
1:D:946:GLY:N	1:D:973:SER:OG	2.41	0.53
1:E:250:TYR:CD2	1:E:279:THR:HA	2.43	0.53
1:E:744:HIS:O	1:E:745:ARG:HD2	2.08	0.53
1:F:117:PHE:HB2	1:F:128:PHE:O	2.08	0.53
1:F:791:LYS:O	1:F:821:ASP:HB2	2.09	0.53
1:F:921:ASP:OD1	1:F:950:SER:OG	2.25	0.53
1:H:456:SER:CB	1:H:497:SER:HB3	2.39	0.53
1:K:677:ILE:O	1:K:680:LEU:HB2	2.08	0.53
1:A:456:SER:CB	1:A:497:SER:HB3	2.39	0.53
1:A:756:ILE:HG22	1:A:783:LEU:HD13	1.90	0.53
1:B:677:ILE:O	1:B:680:LEU:HB2	2.08	0.53
1:C:101:LEU:HD11	1:C:224:PRO:HG2	1.90	0.53
1:D:181:ARG:HH11	1:D:184:MET:HB3	1.73	0.53
1:D:250:TYR:CD2	1:D:279:THR:HA	2.43	0.53
1:D:649:VAL:O	1:D:652:PHE:N	2.41	0.53
1:F:181:ARG:HH11	1:F:184:MET:HB3	1.74	0.53
1:F:649:VAL:O	1:F:652:PHE:N	2.41	0.53
1:F:674:LYS:HA	1:F:677:ILE:HG12	1.91	0.53
1:G:366:PHE:HA	1:G:369:LEU:HD12	1.90	0.53
1:G:456:SER:CB	1:G:497:SER:HB3	2.39	0.53
1:J:892:VAL:O	1:J:895:SER:OG	2.15	0.53
1:K:101:LEU:HD11	1:K:224:PRO:HG2	1.90	0.53
1:K:285:ARG:HB3	1:K:431:THR:HG21	1.91	0.53
1:K:456:SER:CB	1:K:497:SER:HB3	2.39	0.53
1:K:674:LYS:HA	1:K:677:ILE:HG12	1.91	0.53
1:K:791:LYS:O	1:K:821:ASP:HB2	2.09	0.53
1:K:889:CYS:H	1:K:892:VAL:HB	1.72	0.53
1:K:952:ASP:O	1:K:955:LEU:HB3	2.09	0.53
1:A:952:ASP:O	1:A:955:LEU:HB3	2.09	0.53
1:C:674:LYS:HA	1:C:677:ILE:HG12	1.91	0.53
1:D:524:THR:OG1	1:D:530:ARG:NH1	2.28	0.53
1:D:674:LYS:HA	1:D:677:ILE:HG12	1.91	0.53
1:D:756:ILE:HG22	1:D:783:LEU:HD13	1.90	0.53
1:D:856:SER:HB2	1:D:915:LYS:HD3	1.90	0.53
1:E:456:SER:CB	1:E:497:SER:HB3	2.39	0.53
1:G:974:THR:HG22	1:G:1005:TRP:CD1	2.44	0.53
1:H:366:PHE:HA	1:H:369:LEU:HD12	1.90	0.53
1:H:791:LYS:O	1:H:821:ASP:HB2	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:946:GLY:N	1:H:973:SER:OG	2.41	0.53
1:I:415:SER:C	1:I:417:ASN:H	2.10	0.53
1:I:744:HIS:O	1:I:745:ARG:HD2	2.08	0.53
1:I:756:ILE:HG22	1:I:783:LEU:HD13	1.90	0.53
1:J:285:ARG:HB3	1:J:431:THR:HG21	1.91	0.53
1:J:456:SER:CB	1:J:497:SER:HB3	2.39	0.53
1:J:744:HIS:O	1:J:745:ARG:HD2	2.08	0.53
1:J:791:LYS:O	1:J:821:ASP:HB2	2.09	0.53
1:K:130:LEU:HA	1:K:133:THR:OG1	2.09	0.53
1:K:974:THR:HG22	1:K:1005:TRP:CD1	2.44	0.53
1:A:445:SER:O	1:A:448:GLU:HG3	2.08	0.53
1:D:285:ARG:HB3	1:D:431:THR:HG21	1.91	0.53
1:D:791:LYS:O	1:D:821:ASP:HB2	2.09	0.53
1:E:674:LYS:HA	1:E:677:ILE:HG12	1.91	0.53
1:E:892:VAL:O	1:E:895:SER:OG	2.15	0.53
1:F:366:PHE:HA	1:F:369:LEU:HD12	1.90	0.53
1:F:952:ASP:O	1:F:955:LEU:HB3	2.09	0.53
1:G:744:HIS:O	1:G:745:ARG:HD2	2.08	0.53
1:J:415:SER:C	1:J:417:ASN:H	2.10	0.53
1:K:117:PHE:HB2	1:K:128:PHE:O	2.08	0.53
1:K:250:TYR:CD2	1:K:279:THR:HA	2.43	0.53
1:A:101:LEU:HD11	1:A:224:PRO:HG2	1.90	0.53
1:A:364:GLN:HA	1:A:367:TYR:CD2	2.32	0.53
1:A:859:TYR:CD1	1:A:889:CYS:HA	2.44	0.53
1:B:856:SER:HB2	1:B:915:LYS:HD3	1.90	0.53
1:B:952:ASP:O	1:B:955:LEU:HB3	2.09	0.53
1:B:974:THR:HG22	1:B:1005:TRP:CD1	2.44	0.53
1:C:250:TYR:CD2	1:C:279:THR:HA	2.43	0.53
1:C:974:THR:HG22	1:C:1005:TRP:CD1	2.44	0.53
1:D:560:ASN:O	1:D:563:SER:OG	2.19	0.53
1:D:859:TYR:CD1	1:D:889:CYS:HA	2.44	0.53
1:D:974:THR:HG21	1:D:977:PHE:CD1	2.44	0.53
1:D:974:THR:HG22	1:D:1005:TRP:CD1	2.44	0.53
1:F:285:ARG:HB3	1:F:431:THR:HG21	1.91	0.53
1:F:560:ASN:O	1:F:563:SER:OG	2.19	0.53
1:G:285:ARG:HB3	1:G:431:THR:HG21	1.91	0.53
1:G:946:GLY:N	1:G:973:SER:OG	2.41	0.53
1:H:445:SER:O	1:H:448:GLU:HG3	2.08	0.53
1:I:130:LEU:HA	1:I:133:THR:OG1	2.09	0.53
1:I:952:ASP:O	1:I:955:LEU:HB3	2.09	0.53
1:I:974:THR:HG22	1:I:1005:TRP:CD1	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:744:HIS:O	1:K:745:ARG:HD2	2.08	0.53
1:A:677:ILE:O	1:A:680:LEU:HB2	2.08	0.53
1:A:856:SER:HB2	1:A:915:LYS:HD3	1.90	0.53
1:A:974:THR:HG22	1:A:1005:TRP:CD1	2.44	0.53
1:B:98:LEU:HD11	1:B:235:LEU:HD11	1.91	0.53
1:B:130:LEU:HA	1:B:133:THR:OG1	2.09	0.53
1:B:744:HIS:O	1:B:745:ARG:HD2	2.08	0.53
1:B:859:TYR:CD1	1:B:889:CYS:HA	2.44	0.53
1:C:98:LEU:HD11	1:C:235:LEU:HD11	1.91	0.53
1:C:285:ARG:HB3	1:C:431:THR:HG21	1.91	0.53
1:C:445:SER:O	1:C:448:GLU:HG3	2.08	0.53
1:C:456:SER:CB	1:C:497:SER:HB3	2.39	0.53
1:C:825:MET:N	1:C:852:ILE:O	2.40	0.53
1:C:859:TYR:CD1	1:C:889:CYS:HA	2.44	0.53
1:D:130:LEU:HA	1:D:133:THR:OG1	2.09	0.53
1:E:946:GLY:N	1:E:973:SER:OG	2.41	0.53
1:E:974:THR:HG22	1:E:1005:TRP:CD1	2.44	0.53
1:F:313:LEU:HD23	1:F:317:GLN:HG2	1.89	0.53
1:G:677:ILE:O	1:G:680:LEU:HB2	2.08	0.53
1:H:101:LEU:HD11	1:H:224:PRO:HG2	1.90	0.53
1:H:117:PHE:HB2	1:H:128:PHE:O	2.08	0.53
1:H:674:LYS:HA	1:H:677:ILE:HG12	1.91	0.53
1:H:921:ASP:OD1	1:H:950:SER:OG	2.25	0.53
1:I:456:SER:CB	1:I:497:SER:HB3	2.39	0.53
1:I:524:THR:OG1	1:I:530:ARG:NH1	2.28	0.53
1:I:791:LYS:O	1:I:821:ASP:HB2	2.09	0.53
1:J:756:ILE:HG22	1:J:783:LEU:HD13	1.90	0.53
1:J:974:THR:HG22	1:J:1005:TRP:CD1	2.44	0.53
1:A:285:ARG:HB3	1:A:431:THR:HG21	1.91	0.53
1:B:674:LYS:HA	1:B:677:ILE:HG12	1.91	0.53
1:B:791:LYS:O	1:B:821:ASP:HB2	2.09	0.53
1:B:920:ARG:NH2	1:B:922:GLU:OE1	2.42	0.53
1:C:920:ARG:NH2	1:C:922:GLU:OE1	2.42	0.53
1:C:952:ASP:O	1:C:955:LEU:HB3	2.09	0.53
1:D:744:HIS:O	1:D:745:ARG:HD2	2.08	0.53
1:D:952:ASP:O	1:D:955:LEU:HB3	2.09	0.53
1:E:285:ARG:HB3	1:E:431:THR:HG21	1.91	0.53
1:E:677:ILE:O	1:E:680:LEU:HB2	2.08	0.53
1:E:859:TYR:CD1	1:E:889:CYS:HA	2.44	0.53
1:F:495:CYS:HB2	1:F:564:GLU:HG2	1.91	0.53
1:F:756:ILE:HG22	1:F:783:LEU:HD13	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:756:ILE:HG22	1:H:783:LEU:HD13	1.90	0.53
1:H:974:THR:HG22	1:H:1005:TRP:CD1	2.44	0.53
1:J:181:ARG:HH11	1:J:184:MET:HB3	1.74	0.53
1:J:674:LYS:HA	1:J:677:ILE:HG12	1.91	0.53
1:J:946:GLY:N	1:J:973:SER:OG	2.41	0.53
1:J:952:ASP:O	1:J:955:LEU:HB3	2.09	0.53
1:K:364:GLN:HA	1:K:367:TYR:CD2	2.32	0.53
1:K:859:TYR:CD1	1:K:889:CYS:HA	2.44	0.53
1:A:329:ARG:HH11	1:A:332:ARG:HD3	1.74	0.53
1:B:181:ARG:HH11	1:B:184:MET:HB3	1.73	0.53
1:B:250:TYR:CD2	1:B:279:THR:HA	2.43	0.53
1:B:285:ARG:HB3	1:B:431:THR:HG21	1.91	0.53
1:B:456:SER:CB	1:B:497:SER:HB3	2.39	0.53
1:B:572:SER:CB	1:B:602:LEU:HD11	2.39	0.53
1:B:974:THR:HG21	1:B:977:PHE:CD1	2.44	0.53
1:D:415:SER:C	1:D:417:ASN:H	2.10	0.53
1:D:920:ARG:NH2	1:D:922:GLU:OE1	2.42	0.53
1:E:495:CYS:HB2	1:E:564:GLU:HG2	1.91	0.53
1:F:101:LEU:HD11	1:F:224:PRO:HG2	1.90	0.53
1:G:791:LYS:O	1:G:821:ASP:HB2	2.09	0.53
1:H:285:ARG:HB3	1:H:431:THR:HG21	1.91	0.53
1:I:285:ARG:HB3	1:I:431:THR:HG21	1.91	0.53
1:I:366:PHE:HA	1:I:369:LEU:HD12	1.90	0.53
1:I:921:ASP:OD1	1:I:950:SER:OG	2.25	0.53
1:A:250:TYR:CD2	1:A:279:THR:HA	2.43	0.53
1:A:974:THR:HG21	1:A:977:PHE:CD1	2.44	0.53
1:C:408:PHE:HE2	1:C:439:TYR:HE2	1.57	0.53
1:C:572:SER:CB	1:C:602:LEU:HD11	2.39	0.53
1:C:791:LYS:O	1:C:821:ASP:HB2	2.09	0.53
1:D:179:LEU:HA	1:D:182:ILE:HB	1.91	0.53
1:D:313:LEU:HD23	1:D:317:GLN:HG2	1.89	0.53
1:D:893:HIS:HA	1:D:917:TRP:CE3	2.44	0.53
1:E:366:PHE:HA	1:E:369:LEU:HD12	1.90	0.53
1:E:649:VAL:O	1:E:652:PHE:N	2.41	0.53
1:F:433:GLN:HG2	1:G:125:ASP:N	2.13	0.53
1:G:117:PHE:HB2	1:G:128:PHE:O	2.08	0.53
1:G:130:LEU:HA	1:G:133:THR:OG1	2.09	0.53
1:G:495:CYS:HB2	1:G:564:GLU:HG2	1.91	0.53
1:G:674:LYS:HA	1:G:677:ILE:HG12	1.91	0.53
1:G:856:SER:HB2	1:G:915:LYS:HD3	1.90	0.53
1:K:98:LEU:HD11	1:K:235:LEU:HD11	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:756:ILE:HG22	1:K:783:LEU:HD13	1.90	0.52
1:A:920:ARG:NH2	1:A:922:GLU:OE1	2.42	0.52
1:D:456:SER:CB	1:D:497:SER:HB3	2.38	0.52
1:E:130:LEU:HA	1:E:133:THR:OG1	2.09	0.52
1:F:214:GLU:O	1:F:218:ASP:N	2.31	0.52
1:F:856:SER:HB2	1:F:915:LYS:HD3	1.90	0.52
1:F:893:HIS:HA	1:F:917:TRP:CE3	2.44	0.52
1:F:974:THR:HG22	1:F:1005:TRP:CD1	2.44	0.52
1:G:893:HIS:HA	1:G:917:TRP:CE3	2.44	0.52
1:H:974:THR:HG21	1:H:977:PHE:CD1	2.44	0.52
1:I:408:PHE:HE2	1:I:439:TYR:HE2	1.58	0.52
1:I:893:HIS:HA	1:I:917:TRP:CE3	2.44	0.52
1:A:98:LEU:HD11	1:A:235:LEU:HD11	1.91	0.52
1:A:179:LEU:HA	1:A:182:ILE:HB	1.91	0.52
1:C:243:VAL:O	1:C:273:ASN:HB3	2.09	0.52
1:C:677:ILE:O	1:C:680:LEU:HB2	2.08	0.52
1:D:101:LEU:HD11	1:D:224:PRO:HG2	1.90	0.52
1:D:177:THR:HA	1:D:180:GLN:NE2	2.25	0.52
1:D:329:ARG:HH11	1:D:332:ARG:HD3	1.74	0.52
1:E:756:ILE:HG22	1:E:783:LEU:HD13	1.90	0.52
1:E:893:HIS:HA	1:E:917:TRP:CE3	2.44	0.52
1:E:952:ASP:O	1:E:955:LEU:HB3	2.09	0.52
1:F:859:TYR:CD1	1:F:889:CYS:HA	2.44	0.52
1:G:101:LEU:HD11	1:G:224:PRO:HG2	1.90	0.52
1:G:952:ASP:O	1:G:955:LEU:HB3	2.09	0.52
1:G:974:THR:HG21	1:G:977:PHE:CD1	2.44	0.52
1:H:744:HIS:O	1:H:745:ARG:HD2	2.08	0.52
1:H:920:ARG:NH2	1:H:922:GLU:OE1	2.42	0.52
1:I:674:LYS:HA	1:I:677:ILE:HG12	1.91	0.52
1:J:101:LEU:HD11	1:J:224:PRO:HG2	1.90	0.52
1:J:329:ARG:HH11	1:J:332:ARG:HD3	1.74	0.52
1:K:856:SER:HB2	1:K:915:LYS:HD3	1.90	0.52
1:A:366:PHE:HA	1:A:369:LEU:HD12	1.90	0.52
1:B:177:THR:HA	1:B:180:GLN:CD	2.30	0.52
1:B:179:LEU:HA	1:B:182:ILE:HB	1.92	0.52
1:B:408:PHE:HE2	1:B:439:TYR:HE2	1.58	0.52
1:C:130:LEU:HA	1:C:133:THR:OG1	2.09	0.52
1:E:974:THR:HG21	1:E:977:PHE:CD1	2.44	0.52
1:F:130:LEU:HA	1:F:133:THR:OG1	2.09	0.52
1:F:177:THR:HA	1:F:180:GLN:CD	2.30	0.52
1:F:677:ILE:O	1:F:680:LEU:HB2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:974:THR:HG21	1:F:977:PHE:CD1	2.44	0.52
1:G:408:PHE:HE2	1:G:439:TYR:HE2	1.58	0.52
1:G:756:ILE:HG22	1:G:783:LEU:HD13	1.90	0.52
1:H:495:CYS:HB2	1:H:564:GLU:HG2	1.91	0.52
1:I:677:ILE:O	1:I:680:LEU:HB2	2.08	0.52
1:J:117:PHE:HB2	1:J:128:PHE:O	2.08	0.52
1:K:408:PHE:HE2	1:K:439:TYR:HE2	1.58	0.52
1:A:130:LEU:HA	1:A:133:THR:OG1	2.09	0.52
1:A:893:HIS:HA	1:A:917:TRP:CE3	2.44	0.52
1:B:177:THR:HA	1:B:180:GLN:NE2	2.25	0.52
1:C:181:ARG:HH11	1:C:184:MET:HB3	1.73	0.52
1:C:329:ARG:HH11	1:C:332:ARG:HD3	1.74	0.52
1:D:572:SER:CB	1:D:602:LEU:HD11	2.39	0.52
1:D:729:GLU:O	1:D:732:ILE:HB	2.10	0.52
1:E:243:VAL:O	1:E:273:ASN:HB3	2.09	0.52
1:E:329:ARG:HH11	1:E:332:ARG:HD3	1.74	0.52
1:E:990:VAL:O	1:E:993:LYS:HB2	2.09	0.52
1:F:924:ILE:HG23	1:F:957:PHE:HB2	1.92	0.52
1:G:892:VAL:O	1:G:895:SER:OG	2.15	0.52
1:G:920:ARG:NH2	1:G:922:GLU:OE1	2.42	0.52
1:I:117:PHE:HB2	1:I:128:PHE:O	2.08	0.52
1:I:920:ARG:NH2	1:I:922:GLU:OE1	2.42	0.52
1:K:374:ASN:CG	1:K:424:ILE:HG23	2.30	0.52
1:K:524:THR:OG1	1:K:530:ARG:NH1	2.28	0.52
1:C:990:VAL:O	1:C:993:LYS:HB2	2.09	0.52
1:D:98:LEU:HD11	1:D:235:LEU:HD11	1.91	0.52
1:D:243:VAL:O	1:D:273:ASN:HB3	2.09	0.52
1:D:495:CYS:HB2	1:D:564:GLU:HG2	1.91	0.52
1:E:98:LEU:HD11	1:E:235:LEU:HD11	1.91	0.52
1:E:408:PHE:HE2	1:E:439:TYR:HE2	1.58	0.52
1:E:791:LYS:O	1:E:821:ASP:HB2	2.09	0.52
1:E:920:ARG:NH2	1:E:922:GLU:OE1	2.42	0.52
1:F:364:GLN:HA	1:F:367:TYR:CD2	2.32	0.52
1:H:408:PHE:HE2	1:H:439:TYR:HE2	1.57	0.52
1:H:952:ASP:O	1:H:955:LEU:HB3	2.09	0.52
1:I:206:ARG:NH1	1:I:207:SER:HB3	2.25	0.52
1:J:408:PHE:HE2	1:J:439:TYR:HE2	1.58	0.52
1:J:859:TYR:CD1	1:J:889:CYS:HA	2.44	0.52
1:J:924:ILE:HG23	1:J:957:PHE:HB2	1.92	0.52
1:K:366:PHE:HA	1:K:369:LEU:HD12	1.90	0.52
1:K:893:HIS:HA	1:K:917:TRP:CE3	2.44	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:177:THR:HA	1:A:180:GLN:CD	2.30	0.52
1:A:408:PHE:HE2	1:A:439:TYR:HE2	1.58	0.52
1:A:495:CYS:HB2	1:A:564:GLU:HG2	1.91	0.52
1:A:649:VAL:O	1:A:652:PHE:N	2.41	0.52
1:C:974:THR:HG21	1:C:977:PHE:CD1	2.44	0.52
1:D:366:PHE:HA	1:D:369:LEU:HD12	1.90	0.52
1:D:408:PHE:HE2	1:D:439:TYR:HE2	1.57	0.52
1:E:101:LEU:HD11	1:E:224:PRO:HG2	1.90	0.52
1:E:179:LEU:HA	1:E:182:ILE:HB	1.91	0.52
1:F:729:GLU:O	1:F:732:ILE:HB	2.10	0.52
1:F:732:ILE:HD13	1:F:741:LEU:HD11	1.92	0.52
1:F:946:GLY:N	1:F:973:SER:OG	2.41	0.52
1:G:177:THR:HA	1:G:180:GLN:CD	2.30	0.52
1:G:329:ARG:HH11	1:G:332:ARG:HD3	1.74	0.52
1:G:859:TYR:CD1	1:G:889:CYS:HA	2.44	0.52
1:G:985:ARG:O	1:G:988:SER:OG	2.19	0.52
1:H:98:LEU:HD11	1:H:235:LEU:HD11	1.91	0.52
1:H:402:PHE:HD1	1:H:487:TYR:CZ	2.28	0.52
1:H:856:SER:HB2	1:H:915:LYS:HD3	1.90	0.52
1:H:924:ILE:HG23	1:H:957:PHE:HB2	1.92	0.52
1:I:856:SER:HB2	1:I:915:LYS:HD3	1.90	0.52
1:I:946:GLY:N	1:I:973:SER:OG	2.41	0.52
1:J:366:PHE:HA	1:J:369:LEU:HD12	1.90	0.52
1:J:374:ASN:CG	1:J:424:ILE:HG23	2.30	0.52
1:J:402:PHE:HD1	1:J:487:TYR:CZ	2.28	0.52
1:J:974:THR:HG21	1:J:977:PHE:CD1	2.44	0.52
1:K:495:CYS:HB2	1:K:564:GLU:HG2	1.91	0.52
1:B:402:PHE:HD1	1:B:487:TYR:CZ	2.28	0.52
1:B:495:CYS:HB2	1:B:564:GLU:HG2	1.91	0.52
1:B:649:VAL:O	1:B:652:PHE:N	2.41	0.52
1:B:729:GLU:O	1:B:732:ILE:HB	2.10	0.52
1:B:781:LYS:HD3	1:B:810:TYR:HB3	1.92	0.52
1:C:136:GLU:OE1	1:C:137:PRO:HD2	2.10	0.52
1:C:893:HIS:HA	1:C:917:TRP:CE3	2.44	0.52
1:D:677:ILE:O	1:D:680:LEU:HB2	2.09	0.52
1:E:136:GLU:OE1	1:E:137:PRO:HD2	2.10	0.52
1:E:177:THR:HA	1:E:180:GLN:NE2	2.25	0.52
1:F:179:LEU:HA	1:F:182:ILE:HB	1.91	0.52
1:F:206:ARG:NH1	1:F:207:SER:HB3	2.25	0.52
1:F:490:LEU:O	1:F:494:THR:HG23	2.10	0.52
1:G:136:GLU:OE1	1:G:137:PRO:HD2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:732:ILE:HD13	1:H:741:LEU:HD11	1.92	0.52
1:I:136:GLU:OE1	1:I:137:PRO:HD2	2.10	0.52
1:J:136:GLU:OE1	1:J:137:PRO:HD2	2.10	0.52
1:J:495:CYS:HB2	1:J:564:GLU:HG2	1.91	0.52
1:J:856:SER:HB2	1:J:915:LYS:HD3	1.90	0.52
1:J:893:HIS:HA	1:J:917:TRP:CE3	2.44	0.52
1:K:990:VAL:O	1:K:993:LYS:HB2	2.09	0.52
1:K:1015:ILE:CG2	1:A:653:PHE:HB3	2.39	0.52
1:A:206:ARG:NH1	1:A:207:SER:HB3	2.25	0.52
1:A:729:GLU:O	1:A:732:ILE:HB	2.10	0.52
1:A:732:ILE:HD13	1:A:741:LEU:HD11	1.92	0.52
1:B:329:ARG:HH11	1:B:332:ARG:HD3	1.74	0.52
1:C:177:THR:HA	1:C:180:GLN:CD	2.30	0.52
1:C:374:ASN:CG	1:C:424:ILE:HG23	2.30	0.52
1:C:402:PHE:HD1	1:C:487:TYR:CZ	2.28	0.52
1:F:920:ARG:NH2	1:F:922:GLU:OE1	2.42	0.52
1:H:206:ARG:NH1	1:H:207:SER:HB3	2.25	0.52
1:H:364:GLN:HA	1:H:367:TYR:CD2	2.32	0.52
1:H:490:LEU:O	1:H:494:THR:HG23	2.10	0.52
1:I:402:PHE:HD1	1:I:487:TYR:CZ	2.28	0.52
1:I:495:CYS:HB2	1:I:564:GLU:HG2	1.91	0.52
1:I:848:ILE:HG13	1:I:880:GLU:HG3	1.92	0.52
1:J:130:LEU:HA	1:J:133:THR:OG1	2.09	0.52
1:J:177:THR:HA	1:J:180:GLN:CD	2.30	0.52
1:J:206:ARG:NH1	1:J:207:SER:HB3	2.25	0.52
1:J:572:SER:CB	1:J:602:LEU:HD11	2.39	0.52
1:J:732:ILE:HD13	1:J:741:LEU:HD11	1.92	0.52
1:J:990:VAL:O	1:J:993:LYS:HB2	2.09	0.52
1:K:206:ARG:NH1	1:K:207:SER:HB3	2.25	0.52
1:K:221:LEU:HD22	1:J:270:ARG:NH2	2.24	0.52
1:K:329:ARG:HH11	1:K:332:ARG:HD3	1.74	0.52
1:K:920:ARG:NH2	1:K:922:GLU:OE1	2.42	0.52
1:A:924:ILE:HG23	1:A:957:PHE:HB2	1.92	0.52
1:B:206:ARG:NH1	1:B:207:SER:HB3	2.25	0.52
1:C:999:GLU:OE2	1:C:1022:VAL:HG13	2.10	0.52
1:D:374:ASN:CG	1:D:424:ILE:HG23	2.30	0.52
1:D:924:ILE:HG23	1:D:957:PHE:HB2	1.92	0.52
1:E:177:THR:HA	1:E:180:GLN:CD	2.30	0.52
1:E:206:ARG:NH1	1:E:207:SER:HB3	2.25	0.52
1:E:265:ILE:HG13	1:E:266:LYS:HG3	1.92	0.52
1:E:572:SER:CB	1:E:602:LEU:HD11	2.39	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:408:PHE:HE2	1:F:439:TYR:HE2	1.58	0.52
1:G:415:SER:C	1:G:417:ASN:H	2.10	0.52
1:H:181:ARG:HH11	1:H:184:MET:HB3	1.74	0.52
1:H:848:ILE:HG13	1:H:880:GLU:HG3	1.92	0.52
1:I:101:LEU:HD11	1:I:224:PRO:HG2	1.90	0.52
1:I:329:ARG:HH11	1:I:332:ARG:HD3	1.74	0.52
1:I:974:THR:HG21	1:I:977:PHE:CD1	2.44	0.52
1:J:245:PHE:O	1:J:275:VAL:HG23	2.10	0.52
1:J:920:ARG:NH2	1:J:922:GLU:OE1	2.42	0.52
1:K:906:THR:O	1:K:909:LEU:HB2	2.11	0.52
1:K:924:ILE:HG23	1:K:957:PHE:HB2	1.92	0.52
1:A:177:THR:HA	1:A:180:GLN:NE2	2.25	0.52
1:A:374:ASN:CG	1:A:424:ILE:HG23	2.30	0.52
1:B:136:GLU:OE1	1:B:137:PRO:HD2	2.10	0.52
1:B:390:LEU:HD22	1:B:426:LEU:HD13	1.92	0.52
1:D:402:PHE:HD1	1:D:487:TYR:CZ	2.28	0.52
1:D:781:LYS:HD3	1:D:810:TYR:HB3	1.92	0.52
1:E:924:ILE:HG23	1:E:957:PHE:HB2	1.92	0.52
1:F:243:VAL:O	1:F:273:ASN:HB3	2.09	0.52
1:F:329:ARG:HH11	1:F:332:ARG:HD3	1.74	0.52
1:F:402:PHE:HD1	1:F:487:TYR:CZ	2.28	0.52
1:F:781:LYS:HD3	1:F:810:TYR:HB3	1.92	0.52
1:G:206:ARG:NH1	1:G:207:SER:HB3	2.25	0.52
1:G:245:PHE:O	1:G:275:VAL:HG23	2.10	0.52
1:H:329:ARG:HH11	1:H:332:ARG:HD3	1.74	0.52
1:I:243:VAL:O	1:I:273:ASN:HB3	2.09	0.52
1:J:98:LEU:HD11	1:J:235:LEU:HD11	1.91	0.52
1:J:179:LEU:HA	1:J:182:ILE:HB	1.91	0.52
1:J:490:LEU:O	1:J:494:THR:HG23	2.10	0.52
1:K:136:GLU:OE1	1:K:137:PRO:HD2	2.10	0.51
1:K:490:LEU:O	1:K:494:THR:HG23	2.10	0.51
1:K:781:LYS:HD3	1:K:810:TYR:HB3	1.92	0.51
1:A:243:VAL:O	1:A:273:ASN:HB3	2.09	0.51
1:A:390:LEU:HD22	1:A:426:LEU:HD13	1.92	0.51
1:A:990:VAL:O	1:A:993:LYS:HB2	2.09	0.51
1:B:366:PHE:HA	1:B:369:LEU:HD12	1.90	0.51
1:B:732:ILE:HD13	1:B:741:LEU:HD11	1.92	0.51
1:B:893:HIS:HA	1:B:917:TRP:CE3	2.44	0.51
1:B:924:ILE:HG23	1:B:957:PHE:HB2	1.92	0.51
1:C:265:ILE:HG13	1:C:266:LYS:HG3	1.92	0.51
1:C:366:PHE:HA	1:C:369:LEU:HD12	1.90	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:732:ILE:HD13	1:D:741:LEU:HD11	1.92	0.51
1:E:921:ASP:OD1	1:E:950:SER:OG	2.25	0.51
1:F:572:SER:CB	1:F:602:LEU:HD11	2.39	0.51
1:G:177:THR:HA	1:G:180:GLN:NE2	2.25	0.51
1:G:855:ILE:O	1:G:858:ASN:HB2	2.11	0.51
1:H:130:LEU:HA	1:H:133:THR:OG1	2.09	0.51
1:H:243:VAL:O	1:H:273:ASN:HB3	2.09	0.51
1:H:893:HIS:HA	1:H:917:TRP:CE3	2.45	0.51
1:H:906:THR:O	1:H:909:LEU:HB2	2.11	0.51
1:H:985:ARG:O	1:H:988:SER:OG	2.19	0.51
1:I:177:THR:HA	1:I:180:GLN:CD	2.30	0.51
1:I:572:SER:CB	1:I:602:LEU:HD11	2.39	0.51
1:I:730:GLN:OE1	1:I:730:GLN:HA	2.10	0.51
1:I:859:TYR:CD1	1:I:889:CYS:HA	2.44	0.51
1:I:990:VAL:O	1:I:993:LYS:HB2	2.09	0.51
1:J:906:THR:O	1:J:909:LEU:HB2	2.11	0.51
1:K:402:PHE:HD1	1:K:487:TYR:CZ	2.28	0.51
1:K:730:GLN:OE1	1:K:730:GLN:HA	2.10	0.51
1:K:732:ILE:HD13	1:K:741:LEU:HD11	1.92	0.51
1:B:245:PHE:O	1:B:275:VAL:HG23	2.10	0.51
1:B:999:GLU:OE2	1:B:1022:VAL:HG13	2.10	0.51
1:C:390:LEU:HD22	1:C:426:LEU:HD13	1.92	0.51
1:C:729:GLU:O	1:C:732:ILE:HB	2.10	0.51
1:C:924:ILE:HG23	1:C:957:PHE:HB2	1.92	0.51
1:D:490:LEU:O	1:D:494:THR:HG23	2.10	0.51
1:F:98:LEU:HD11	1:F:235:LEU:HD11	1.91	0.51
1:G:179:LEU:HA	1:G:182:ILE:HB	1.91	0.51
1:G:247:LEU:HB3	1:G:278:THR:HG22	1.93	0.51
1:G:265:ILE:HG13	1:G:266:LYS:HG3	1.92	0.51
1:G:402:PHE:HD1	1:G:487:TYR:CZ	2.28	0.51
1:G:730:GLN:OE1	1:G:730:GLN:HA	2.10	0.51
1:G:848:ILE:HG13	1:G:880:GLU:HG3	1.92	0.51
1:G:906:THR:O	1:G:909:LEU:HB2	2.11	0.51
1:H:245:PHE:O	1:H:275:VAL:HG23	2.10	0.51
1:H:859:TYR:CD1	1:H:889:CYS:HA	2.44	0.51
1:I:906:THR:O	1:I:909:LEU:HB2	2.11	0.51
1:J:848:ILE:HG13	1:J:880:GLU:HG3	1.92	0.51
1:K:974:THR:HG21	1:K:977:PHE:CD1	2.44	0.51
1:K:999:GLU:OE2	1:K:1022:VAL:HG13	2.10	0.51
1:A:906:THR:O	1:A:909:LEU:HB2	2.11	0.51
1:B:265:ILE:HG13	1:B:266:LYS:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:855:ILE:O	1:B:858:ASN:HB2	2.11	0.51
1:B:990:VAL:O	1:B:993:LYS:HB2	2.09	0.51
1:C:179:LEU:HA	1:C:182:ILE:HB	1.91	0.51
1:C:495:CYS:HB2	1:C:564:GLU:HG2	1.91	0.51
1:C:560:ASN:O	1:C:563:SER:OG	2.19	0.51
1:E:374:ASN:CG	1:E:424:ILE:HG23	2.30	0.51
1:E:402:PHE:HD1	1:E:487:TYR:CZ	2.28	0.51
1:F:247:LEU:HB3	1:F:278:THR:HG22	1.93	0.51
1:F:990:VAL:O	1:F:993:LYS:HB2	2.09	0.51
1:G:390:LEU:HD22	1:G:426:LEU:HD13	1.92	0.51
1:G:572:SER:CB	1:G:602:LEU:HD11	2.39	0.51
1:H:177:THR:HA	1:H:180:GLN:CD	2.30	0.51
1:H:572:SER:CB	1:H:602:LEU:HD11	2.39	0.51
1:H:990:VAL:O	1:H:993:LYS:HB2	2.09	0.51
1:J:177:THR:HA	1:J:180:GLN:NE2	2.25	0.51
1:K:848:ILE:HG13	1:K:880:GLU:HG3	1.92	0.51
1:A:245:PHE:O	1:A:275:VAL:HG23	2.10	0.51
1:A:262:GLU:HA	1:A:265:ILE:HG12	1.92	0.51
1:B:243:VAL:O	1:B:273:ASN:HB3	2.09	0.51
1:B:262:GLU:HA	1:B:265:ILE:HG12	1.92	0.51
1:C:206:ARG:NH1	1:C:207:SER:HB3	2.25	0.51
1:C:490:LEU:O	1:C:494:THR:HG23	2.10	0.51
1:C:666:LEU:HD12	1:C:694:ILE:HG23	1.93	0.51
1:D:990:VAL:O	1:D:993:LYS:HB2	2.09	0.51
1:E:666:LEU:HD12	1:E:694:ILE:HG23	1.93	0.51
1:E:999:GLU:OE2	1:E:1022:VAL:HG13	2.10	0.51
1:F:374:ASN:CG	1:F:424:ILE:HG23	2.30	0.51
1:F:906:THR:O	1:F:909:LEU:HB2	2.11	0.51
1:G:732:ILE:HD13	1:G:741:LEU:HD11	1.92	0.51
1:G:990:VAL:O	1:G:993:LYS:HB2	2.09	0.51
1:H:179:LEU:HA	1:H:182:ILE:HB	1.91	0.51
1:H:247:LEU:HB3	1:H:278:THR:HG22	1.93	0.51
1:H:729:GLU:O	1:H:732:ILE:HB	2.10	0.51
1:H:781:LYS:HD3	1:H:810:TYR:HB3	1.92	0.51
1:H:999:GLU:OE2	1:H:1022:VAL:HG13	2.10	0.51
1:I:265:ILE:HG13	1:I:266:LYS:N	2.26	0.51
1:I:560:ASN:O	1:I:563:SER:OG	2.19	0.51
1:I:732:ILE:HD13	1:I:741:LEU:HD11	1.92	0.51
1:I:924:ILE:HG23	1:I:957:PHE:HB2	1.92	0.51
1:J:729:GLU:O	1:J:732:ILE:HB	2.10	0.51
1:K:177:THR:HA	1:K:180:GLN:CD	2.30	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:179:LEU:HA	1:K:182:ILE:HB	1.91	0.51
1:K:243:VAL:O	1:K:273:ASN:HB3	2.09	0.51
1:A:265:ILE:HG13	1:A:266:LYS:N	2.26	0.51
1:A:402:PHE:HD1	1:A:487:TYR:CZ	2.28	0.51
1:A:895:SER:O	1:A:898:LYS:HB2	2.11	0.51
1:B:374:ASN:CG	1:B:424:ILE:HG23	2.30	0.51
1:B:490:LEU:O	1:B:494:THR:HG23	2.10	0.51
1:C:895:SER:O	1:C:898:LYS:HB2	2.11	0.51
1:D:390:LEU:HD22	1:D:426:LEU:HD13	1.92	0.51
1:E:245:PHE:O	1:E:275:VAL:HG23	2.10	0.51
1:E:906:THR:O	1:E:909:LEU:HB2	2.11	0.51
1:F:177:THR:HA	1:F:180:GLN:NE2	2.25	0.51
1:F:390:LEU:HD22	1:F:426:LEU:HD13	1.92	0.51
1:G:243:VAL:O	1:G:273:ASN:HB3	2.09	0.51
1:G:374:ASN:CG	1:G:424:ILE:HG23	2.30	0.51
1:G:999:GLU:OE2	1:G:1022:VAL:HG13	2.10	0.51
1:H:265:ILE:HG13	1:H:266:LYS:N	2.26	0.51
1:H:666:LEU:HD12	1:H:694:ILE:HG23	1.93	0.51
1:I:98:LEU:HD11	1:I:235:LEU:HD11	1.91	0.51
1:I:490:LEU:O	1:I:494:THR:HG23	2.10	0.51
1:I:895:SER:O	1:I:898:LYS:HB2	2.11	0.51
1:I:999:GLU:OE2	1:I:1022:VAL:HG13	2.10	0.51
1:J:247:LEU:HB3	1:J:278:THR:HG22	1.93	0.51
1:K:729:GLU:O	1:K:732:ILE:HB	2.10	0.51
1:K:855:ILE:O	1:K:858:ASN:HB2	2.11	0.51
1:B:116:ASN:HA	1:B:129:ASN:HA	1.92	0.51
1:C:906:THR:O	1:C:909:LEU:HB2	2.11	0.51
1:D:206:ARG:NH1	1:D:207:SER:HB3	2.25	0.51
1:D:533:SEP:N	1:D:536:SER:OG	2.44	0.51
1:E:247:LEU:HB3	1:E:278:THR:HG22	1.93	0.51
1:E:729:GLU:O	1:E:732:ILE:HB	2.10	0.51
1:F:666:LEU:HD12	1:F:694:ILE:HG23	1.93	0.51
1:F:848:ILE:HG13	1:F:880:GLU:HG3	1.92	0.51
1:F:855:ILE:O	1:F:858:ASN:HB2	2.11	0.51
1:G:116:ASN:HA	1:G:129:ASN:HA	1.92	0.51
1:H:374:ASN:CG	1:H:424:ILE:HG23	2.30	0.51
1:I:247:LEU:HB3	1:I:278:THR:HG22	1.93	0.51
1:I:374:ASN:CG	1:I:424:ILE:HG23	2.30	0.51
1:I:666:LEU:HD12	1:I:694:ILE:HG23	1.93	0.51
1:K:245:PHE:O	1:K:275:VAL:HG23	2.10	0.51
1:K:265:ILE:HG13	1:K:266:LYS:HG3	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:666:LEU:HD12	1:K:694:ILE:HG23	1.93	0.51
1:A:116:ASN:HA	1:A:129:ASN:HA	1.92	0.51
1:C:177:THR:HA	1:C:180:GLN:NE2	2.25	0.51
1:C:262:GLU:HA	1:C:265:ILE:HG12	1.92	0.51
1:D:177:THR:HA	1:D:180:GLN:CD	2.30	0.51
1:D:265:ILE:HG13	1:D:266:LYS:HG3	1.92	0.51
1:E:533:SEP:N	1:E:536:SER:OG	2.44	0.51
1:E:895:SER:O	1:E:898:LYS:HB2	2.11	0.51
1:F:1016:LYS:HD2	1:F:1021:LEU:HD13	1.92	0.51
1:G:98:LEU:HD11	1:G:235:LEU:HD11	1.91	0.51
1:G:666:LEU:HD12	1:G:694:ILE:HG23	1.93	0.51
1:H:410:PRO:HG2	1:H:416:MET:SD	2.51	0.51
1:H:855:ILE:O	1:H:858:ASN:HB2	2.11	0.51
1:I:533:SEP:N	1:I:536:SER:OG	2.44	0.51
1:I:781:LYS:HD3	1:I:810:TYR:HB3	1.92	0.51
1:J:666:LEU:HD12	1:J:694:ILE:HG23	1.93	0.51
1:K:390:LEU:HD22	1:K:426:LEU:HD13	1.92	0.51
1:K:506:MET:SD	1:K:509:LEU:HD12	2.51	0.51
1:K:848:ILE:CG1	1:K:880:GLU:HG3	2.41	0.51
1:B:666:LEU:HD12	1:B:694:ILE:HG23	1.93	0.51
1:B:906:THR:O	1:B:909:LEU:HB2	2.11	0.51
1:D:666:LEU:HD12	1:D:694:ILE:HG23	1.93	0.51
1:D:855:ILE:O	1:D:858:ASN:HB2	2.11	0.51
1:F:245:PHE:O	1:F:275:VAL:HG23	2.10	0.51
1:F:410:PRO:HG2	1:F:416:MET:SD	2.51	0.51
1:G:729:GLU:O	1:G:732:ILE:HB	2.10	0.51
1:G:781:LYS:HD3	1:G:810:TYR:HB3	1.92	0.51
1:H:262:GLU:HA	1:H:265:ILE:HG12	1.92	0.51
1:I:245:PHE:O	1:I:275:VAL:HG23	2.10	0.51
1:I:265:ILE:HG13	1:I:266:LYS:HG3	1.92	0.51
1:I:848:ILE:CG1	1:I:880:GLU:HG3	2.41	0.51
1:J:243:VAL:O	1:J:273:ASN:HB3	2.09	0.51
1:J:410:PRO:HG2	1:J:416:MET:SD	2.51	0.51
1:J:506:MET:SD	1:J:509:LEU:HD12	2.51	0.51
1:K:247:LEU:HB3	1:K:278:THR:HG22	1.93	0.51
1:A:265:ILE:HG13	1:A:266:LYS:HG3	1.92	0.51
1:A:506:MET:SD	1:A:509:LEU:HD12	2.51	0.51
1:A:855:ILE:O	1:A:858:ASN:HB2	2.11	0.51
1:A:921:ASP:OD1	1:A:950:SER:OG	2.25	0.51
1:A:999:GLU:OE2	1:A:1022:VAL:HG13	2.10	0.51
1:A:1016:LYS:HD2	1:A:1021:LEU:HD13	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:788:ARG:O	1:B:791:LYS:HG3	2.11	0.51
1:C:116:ASN:HA	1:C:129:ASN:HA	1.92	0.51
1:C:533:SEP:N	1:C:536:SER:OG	2.44	0.51
1:C:732:ILE:HD13	1:C:741:LEU:HD11	1.92	0.51
1:C:788:ARG:O	1:C:791:LYS:HG3	2.11	0.51
1:D:136:GLU:OE1	1:D:137:PRO:HD2	2.10	0.51
1:D:245:PHE:O	1:D:275:VAL:HG23	2.10	0.51
1:E:1016:LYS:HD2	1:E:1021:LEU:HD13	1.93	0.51
1:F:265:ILE:HG13	1:F:266:LYS:N	2.26	0.51
1:G:214:GLU:O	1:G:218:ASP:N	2.31	0.51
1:G:895:SER:O	1:G:898:LYS:HB2	2.11	0.51
1:G:924:ILE:HG23	1:G:957:PHE:HB2	1.92	0.51
1:H:136:GLU:OE1	1:H:137:PRO:HD2	2.10	0.51
1:I:410:PRO:HG2	1:I:416:MET:SD	2.51	0.51
1:I:506:MET:SD	1:I:509:LEU:HD12	2.51	0.51
1:J:203:ILE:O	1:J:248:ASP:N	2.40	0.51
1:J:265:ILE:HG13	1:J:266:LYS:N	2.26	0.51
1:J:533:SEP:N	1:J:536:SER:OG	2.44	0.51
1:K:262:GLU:HA	1:K:265:ILE:HG12	1.93	0.51
1:K:265:ILE:HG13	1:K:266:LYS:N	2.26	0.51
1:K:480:ILE:O	1:K:482:ASP:N	2.44	0.51
1:K:1016:LYS:HD2	1:K:1021:LEU:HD13	1.92	0.51
1:A:666:LEU:HD12	1:A:694:ILE:HG23	1.93	0.51
1:A:848:ILE:HG13	1:A:880:GLU:HG3	1.92	0.51
1:C:649:VAL:O	1:C:652:PHE:N	2.41	0.51
1:C:921:ASP:OD1	1:C:950:SER:OG	2.25	0.51
1:D:262:GLU:HA	1:D:265:ILE:HG12	1.92	0.51
1:D:788:ARG:O	1:D:791:LYS:HG3	2.11	0.51
1:E:265:ILE:HG13	1:E:266:LYS:N	2.26	0.51
1:E:490:LEU:O	1:E:494:THR:HG23	2.10	0.51
1:E:730:GLN:OE1	1:E:730:GLN:HA	2.10	0.51
1:E:848:ILE:HG13	1:E:880:GLU:HG3	1.92	0.51
1:F:262:GLU:HA	1:F:265:ILE:HG12	1.92	0.51
1:F:999:GLU:OE2	1:F:1022:VAL:HG13	2.10	0.51
1:G:490:LEU:O	1:G:494:THR:HG23	2.10	0.51
1:G:594:TYR:O	1:G:597:ASP:HB2	2.11	0.51
1:G:848:ILE:CG1	1:G:880:GLU:HG3	2.41	0.51
1:H:390:LEU:HD22	1:H:426:LEU:HD13	1.92	0.51
1:H:533:SEP:N	1:H:536:SER:OG	2.44	0.51
1:H:730:GLN:OE1	1:H:730:GLN:HA	2.10	0.51
1:I:116:ASN:HA	1:I:129:ASN:HA	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:177:THR:HA	1:I:180:GLN:NE2	2.25	0.51
1:I:179:LEU:HA	1:I:182:ILE:HB	1.91	0.51
1:I:825:MET:N	1:I:852:ILE:O	2.40	0.51
1:J:480:ILE:O	1:J:482:ASP:N	2.44	0.51
1:J:895:SER:O	1:J:898:LYS:HB2	2.11	0.51
1:K:533:SEP:N	1:K:536:SER:OG	2.44	0.50
1:A:136:GLU:OE1	1:A:137:PRO:HD2	2.10	0.50
1:A:410:PRO:HG2	1:A:416:MET:SD	2.51	0.50
1:A:652:PHE:CE2	1:A:683:ILE:HG23	2.46	0.50
1:B:533:SEP:N	1:B:536:SER:OG	2.44	0.50
1:C:203:ILE:O	1:C:248:ASP:N	2.40	0.50
1:C:245:PHE:O	1:C:275:VAL:HG23	2.10	0.50
1:C:265:ILE:HG13	1:C:266:LYS:N	2.26	0.50
1:D:1016:LYS:HD2	1:D:1021:LEU:HD13	1.92	0.50
1:F:136:GLU:OE1	1:F:137:PRO:HD2	2.10	0.50
1:G:262:GLU:HA	1:G:265:ILE:HG12	1.92	0.50
1:H:177:THR:HA	1:H:180:GLN:NE2	2.25	0.50
1:H:895:SER:O	1:H:898:LYS:HB2	2.11	0.50
1:I:855:ILE:O	1:I:858:ASN:HB2	2.11	0.50
1:J:848:ILE:CG1	1:J:880:GLU:HG3	2.41	0.50
1:J:855:ILE:O	1:J:858:ASN:HB2	2.11	0.50
1:J:999:GLU:OE2	1:J:1022:VAL:HG13	2.10	0.50
1:A:490:LEU:O	1:A:494:THR:HG23	2.10	0.50
1:A:788:ARG:O	1:A:791:LYS:HG3	2.11	0.50
1:C:848:ILE:HG13	1:C:880:GLU:HG3	1.92	0.50
1:C:855:ILE:O	1:C:858:ASN:HB2	2.11	0.50
1:D:116:ASN:HA	1:D:129:ASN:HA	1.92	0.50
1:D:247:LEU:HB3	1:D:278:THR:HG22	1.93	0.50
1:D:410:PRO:HG2	1:D:416:MET:SD	2.51	0.50
1:E:594:TYR:O	1:E:597:ASP:HB2	2.11	0.50
1:E:781:LYS:HD3	1:E:810:TYR:HB3	1.92	0.50
1:F:895:SER:O	1:F:898:LYS:HB2	2.11	0.50
1:G:1016:LYS:HD2	1:G:1021:LEU:HD13	1.93	0.50
1:J:781:LYS:HD3	1:J:810:TYR:HB3	1.92	0.50
1:K:144:HIS:HB3	1:A:128:PHE:CE1	2.46	0.50
1:K:364:GLN:HB2	1:K:449:TYR:CE2	2.47	0.50
1:A:533:SEP:N	1:A:536:SER:OG	2.44	0.50
1:C:364:GLN:HB2	1:C:449:TYR:CE2	2.47	0.50
1:D:652:PHE:CE2	1:D:683:ILE:HG23	2.46	0.50
1:E:390:LEU:HD22	1:E:426:LEU:HD13	1.92	0.50
1:E:480:ILE:O	1:E:482:ASP:N	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:533:SEP:N	1:F:536:SER:OG	2.44	0.50
1:H:848:ILE:CG1	1:H:880:GLU:HG3	2.41	0.50
1:I:480:ILE:O	1:I:482:ASP:N	2.44	0.50
1:I:594:TYR:O	1:I:597:ASP:HB2	2.11	0.50
1:I:729:GLU:O	1:I:732:ILE:HB	2.10	0.50
1:J:1016:LYS:HD2	1:J:1021:LEU:HD13	1.92	0.50
1:A:247:LEU:HB3	1:A:278:THR:HG22	1.93	0.50
1:A:364:GLN:HB2	1:A:449:TYR:CE2	2.47	0.50
1:C:247:LEU:HB3	1:C:278:THR:HG22	1.93	0.50
1:C:594:TYR:O	1:C:597:ASP:HB2	2.11	0.50
1:C:652:PHE:CE2	1:C:683:ILE:HG23	2.46	0.50
1:C:781:LYS:HD3	1:C:810:TYR:HB3	1.92	0.50
1:E:732:ILE:HD13	1:E:741:LEU:HD11	1.92	0.50
1:E:788:ARG:O	1:E:791:LYS:HG3	2.11	0.50
1:F:128:PHE:CG	1:F:129:ASN:N	2.80	0.50
1:G:336:LYS:HB2	1:G:443:HIS:HE2	1.75	0.50
1:G:364:GLN:HB2	1:G:449:TYR:CE2	2.47	0.50
1:I:364:GLN:HA	1:I:367:TYR:CD2	2.32	0.50
1:J:128:PHE:CG	1:J:129:ASN:N	2.80	0.50
1:J:262:GLU:HA	1:J:265:ILE:HG12	1.92	0.50
1:J:364:GLN:HB2	1:J:449:TYR:CE2	2.47	0.50
1:J:532:GLU:OE1	1:J:744:HIS:ND1	2.41	0.50
1:J:730:GLN:OE1	1:J:730:GLN:HA	2.11	0.50
1:K:410:PRO:HG2	1:K:416:MET:SD	2.51	0.50
1:K:652:PHE:CE2	1:K:683:ILE:HG23	2.46	0.50
1:K:825:MET:N	1:K:852:ILE:O	2.40	0.50
1:A:848:ILE:CG1	1:A:880:GLU:HG3	2.41	0.50
1:B:265:ILE:HG13	1:B:266:LYS:N	2.26	0.50
1:B:1016:LYS:HD2	1:B:1021:LEU:HD13	1.93	0.50
1:C:388:ARG:O	1:C:392:TYR:N	2.45	0.50
1:D:848:ILE:HG13	1:D:880:GLU:HG3	1.92	0.50
1:F:364:GLN:HB2	1:F:449:TYR:CE2	2.47	0.50
1:G:410:PRO:HD3	1:G:437:PRO:HG2	1.93	0.50
1:H:116:ASN:HA	1:H:129:ASN:HA	1.92	0.50
1:H:128:PHE:CG	1:H:129:ASN:N	2.80	0.50
1:H:480:ILE:O	1:H:482:ASP:N	2.44	0.50
1:H:788:ARG:O	1:H:791:LYS:HG3	2.11	0.50
1:I:128:PHE:CG	1:I:129:ASN:N	2.80	0.50
1:I:262:GLU:HA	1:I:265:ILE:HG12	1.92	0.50
1:I:364:GLN:HB2	1:I:449:TYR:CE2	2.47	0.50
1:J:390:LEU:HD22	1:J:426:LEU:HD13	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:825:MET:N	1:J:852:ILE:O	2.40	0.50
1:K:177:THR:HA	1:K:180:GLN:NE2	2.25	0.50
1:K:921:ASP:OD1	1:K:950:SER:OG	2.25	0.50
1:A:480:ILE:O	1:A:482:ASP:N	2.44	0.50
1:A:781:LYS:HD3	1:A:810:TYR:HB3	1.92	0.50
1:B:247:LEU:HB3	1:B:278:THR:HG22	1.93	0.50
1:B:410:PRO:HG2	1:B:416:MET:SD	2.51	0.50
1:B:506:MET:SD	1:B:509:LEU:HD12	2.51	0.50
1:B:594:TYR:O	1:B:597:ASP:HB2	2.11	0.50
1:D:409:GLU:HG3	1:D:436:LYS:HB2	1.94	0.50
1:E:364:GLN:HA	1:E:367:TYR:CD2	2.32	0.50
1:E:855:ILE:O	1:E:858:ASN:HB2	2.11	0.50
1:F:265:ILE:HG13	1:F:266:LYS:HG3	1.92	0.50
1:F:410:PRO:HD3	1:F:437:PRO:HG2	1.93	0.50
1:F:730:GLN:OE1	1:F:730:GLN:HA	2.10	0.50
1:H:506:MET:SD	1:H:509:LEU:HD12	2.51	0.50
1:K:116:ASN:HA	1:K:129:ASN:HA	1.92	0.50
1:K:649:VAL:O	1:K:652:PHE:N	2.41	0.50
1:B:848:ILE:HG13	1:B:880:GLU:HG3	1.92	0.50
1:C:506:MET:SD	1:C:509:LEU:HD12	2.51	0.50
1:C:730:GLN:OE1	1:C:730:GLN:HA	2.11	0.50
1:C:1016:LYS:HD2	1:C:1021:LEU:HD13	1.92	0.50
1:D:895:SER:O	1:D:898:LYS:HB2	2.11	0.50
1:E:116:ASN:HA	1:E:129:ASN:HA	1.92	0.50
1:E:506:MET:SD	1:E:509:LEU:HD12	2.51	0.50
1:E:652:PHE:CE2	1:E:683:ILE:HG23	2.46	0.50
1:F:217:TYR:O	1:F:221:LEU:HG	2.12	0.50
1:F:848:ILE:CG1	1:F:880:GLU:HG3	2.41	0.50
1:F:954:TRP:CZ2	1:F:972:PHE:HB3	2.47	0.50
1:G:652:PHE:CE2	1:G:683:ILE:HG23	2.46	0.50
1:H:1016:LYS:HD2	1:H:1021:LEU:HD13	1.92	0.50
1:I:388:ARG:O	1:I:392:TYR:N	2.45	0.50
1:I:652:PHE:CE2	1:I:683:ILE:HG23	2.46	0.50
1:J:265:ILE:HG13	1:J:266:LYS:HG3	1.92	0.50
1:A:730:GLN:OE1	1:A:730:GLN:HA	2.10	0.50
1:A:741:LEU:HD21	1:A:755:LEU:HD21	1.94	0.50
1:B:652:PHE:CE2	1:B:683:ILE:HG23	2.46	0.50
1:B:730:GLN:OE1	1:B:730:GLN:HA	2.10	0.50
1:C:409:GLU:HG3	1:C:436:LYS:HB2	1.94	0.50
1:C:410:PRO:HG2	1:C:416:MET:SD	2.51	0.50
1:C:410:PRO:HD3	1:C:437:PRO:HG2	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:217:TYR:O	1:D:221:LEU:HG	2.12	0.50
1:D:265:ILE:HG13	1:D:266:LYS:N	2.26	0.50
1:D:410:PRO:HD3	1:D:437:PRO:HG2	1.93	0.50
1:D:741:LEU:HD21	1:D:755:LEU:HD21	1.94	0.50
1:D:999:GLU:OE2	1:D:1022:VAL:HG13	2.10	0.50
1:E:435:LEU:HD12	1:E:436:LYS:N	2.27	0.50
1:G:533:SEP:N	1:G:536:SER:OG	2.44	0.50
1:H:265:ILE:HG13	1:H:266:LYS:HG3	1.92	0.50
1:H:364:GLN:HB2	1:H:449:TYR:CE2	2.47	0.50
1:J:116:ASN:HA	1:J:129:ASN:HA	1.92	0.50
1:B:166:LEU:HD21	1:B:291:GLY:H	1.77	0.50
1:B:364:GLN:HB2	1:B:449:TYR:CE2	2.47	0.50
1:B:388:ARG:O	1:B:392:TYR:N	2.45	0.50
1:B:827:LEU:HD13	1:B:832:LEU:HD13	1.94	0.50
1:C:208:ALA:O	1:C:257:ASN:ND2	2.45	0.50
1:C:480:ILE:O	1:C:482:ASP:N	2.44	0.50
1:D:364:GLN:HB2	1:D:449:TYR:CE2	2.47	0.50
1:D:506:MET:SD	1:D:509:LEU:HD12	2.51	0.50
1:D:594:TYR:O	1:D:597:ASP:HB2	2.11	0.50
1:D:730:GLN:HA	1:D:730:GLN:OE1	2.10	0.50
1:D:906:THR:O	1:D:909:LEU:HB2	2.11	0.50
1:E:128:PHE:CG	1:E:129:ASN:N	2.80	0.50
1:E:208:ALA:O	1:E:257:ASN:ND2	2.45	0.50
1:F:166:LEU:HD21	1:F:291:GLY:H	1.77	0.50
1:G:410:PRO:HG2	1:G:416:MET:SD	2.51	0.50
1:G:506:MET:SD	1:G:509:LEU:HD12	2.51	0.50
1:H:217:TYR:O	1:H:221:LEU:HG	2.12	0.50
1:I:1016:LYS:HD2	1:I:1021:LEU:HD13	1.92	0.50
1:J:388:ARG:O	1:J:392:TYR:N	2.45	0.50
1:J:788:ARG:O	1:J:791:LYS:HG3	2.11	0.50
1:J:827:LEU:HD13	1:J:832:LEU:HD13	1.94	0.50
1:K:128:PHE:CG	1:K:129:ASN:N	2.80	0.49
1:K:827:LEU:HD13	1:K:832:LEU:HD13	1.94	0.49
1:A:827:LEU:HD13	1:A:832:LEU:HD13	1.94	0.49
1:B:217:TYR:O	1:B:221:LEU:HG	2.12	0.49
1:C:524:THR:OG1	1:C:530:ARG:NH1	2.28	0.49
1:C:741:LEU:HD21	1:C:755:LEU:HD21	1.94	0.49
1:D:208:ALA:O	1:D:257:ASN:ND2	2.45	0.49
1:D:848:ILE:CG1	1:D:880:GLU:HG3	2.41	0.49
1:E:262:GLU:HA	1:E:265:ILE:HG12	1.93	0.49
1:E:410:PRO:HD3	1:E:437:PRO:HG2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:430:TYR:O	1:E:435:LEU:HD13	2.12	0.49
1:F:480:ILE:O	1:F:482:ASP:N	2.44	0.49
1:F:532:GLU:OE1	1:F:744:HIS:ND1	2.41	0.49
1:F:594:TYR:O	1:F:597:ASP:HB2	2.11	0.49
1:F:741:LEU:HD21	1:F:755:LEU:HD21	1.94	0.49
1:G:128:PHE:CG	1:G:129:ASN:N	2.80	0.49
1:G:208:ALA:O	1:G:257:ASN:ND2	2.45	0.49
1:H:208:ALA:O	1:H:257:ASN:ND2	2.45	0.49
1:H:410:PRO:HD3	1:H:437:PRO:HG2	1.93	0.49
1:K:269:HIS:CD2	1:K:270:ARG:HG3	2.48	0.49
1:K:388:ARG:O	1:K:392:TYR:N	2.45	0.49
1:K:895:SER:O	1:K:898:LYS:HB2	2.11	0.49
1:B:128:PHE:CG	1:B:129:ASN:N	2.80	0.49
1:B:410:PRO:HD3	1:B:437:PRO:HG2	1.93	0.49
1:B:895:SER:O	1:B:898:LYS:HB2	2.11	0.49
1:E:410:PRO:HG2	1:E:416:MET:SD	2.51	0.49
1:F:208:ALA:O	1:F:257:ASN:ND2	2.45	0.49
1:F:430:TYR:O	1:F:435:LEU:HD13	2.12	0.49
1:F:652:PHE:CE2	1:F:683:ILE:HG23	2.46	0.49
1:H:892:VAL:O	1:H:895:SER:OG	2.15	0.49
1:I:208:ALA:O	1:I:257:ASN:ND2	2.45	0.49
1:I:788:ARG:O	1:I:791:LYS:HG3	2.11	0.49
1:J:431:THR:HA	1:J:435:LEU:HD22	1.94	0.49
1:K:125:ASP:H	1:J:433:GLN:CG	2.13	0.49
1:K:431:THR:HA	1:K:435:LEU:HD22	1.94	0.49
1:K:741:LEU:O	1:K:768:LEU:HD12	2.13	0.49
1:A:128:PHE:CG	1:A:129:ASN:N	2.80	0.49
1:A:388:ARG:O	1:A:392:TYR:N	2.45	0.49
1:A:594:TYR:O	1:A:597:ASP:HB2	2.11	0.49
1:B:269:HIS:CD2	1:B:270:ARG:HG3	2.48	0.49
1:C:435:LEU:HD12	1:C:436:LYS:N	2.27	0.49
1:D:435:LEU:HD12	1:D:436:LYS:N	2.27	0.49
1:D:914:LEU:HD11	1:D:927:LEU:HD13	1.94	0.49
1:F:435:LEU:HD12	1:F:436:LYS:N	2.27	0.49
1:G:166:LEU:HD21	1:G:291:GLY:H	1.77	0.49
1:G:175:LYS:HE2	1:G:278:THR:HA	1.94	0.49
1:G:265:ILE:HG13	1:G:266:LYS:N	2.26	0.49
1:G:921:ASP:OD1	1:G:950:SER:OG	2.25	0.49
1:G:954:TRP:CZ2	1:G:972:PHE:HB3	2.47	0.49
1:I:175:LYS:HE2	1:I:278:THR:HA	1.94	0.49
1:I:390:LEU:HD22	1:I:426:LEU:HD13	1.92	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:431:THR:HA	1:I:435:LEU:HD22	1.94	0.49
1:I:741:LEU:O	1:I:768:LEU:HD12	2.13	0.49
1:I:954:TRP:CZ2	1:I:972:PHE:HB3	2.47	0.49
1:J:208:ALA:O	1:J:257:ASN:ND2	2.45	0.49
1:J:741:LEU:O	1:J:768:LEU:HD12	2.13	0.49
1:K:208:ALA:O	1:K:257:ASN:ND2	2.45	0.49
1:K:430:TYR:O	1:K:435:LEU:HD13	2.12	0.49
1:K:572:SER:CB	1:K:602:LEU:HD11	2.39	0.49
1:K:594:TYR:O	1:K:597:ASP:HB2	2.11	0.49
1:A:954:TRP:CZ2	1:A:972:PHE:HB3	2.47	0.49
1:B:208:ALA:O	1:B:257:ASN:ND2	2.45	0.49
1:B:409:GLU:HG3	1:B:436:LYS:HB2	1.94	0.49
1:B:480:ILE:O	1:B:482:ASP:N	2.44	0.49
1:B:741:LEU:HD21	1:B:755:LEU:HD21	1.94	0.49
1:B:914:LEU:HD11	1:B:927:LEU:HD13	1.94	0.49
1:C:166:LEU:HD21	1:C:291:GLY:H	1.77	0.49
1:C:848:ILE:CG1	1:C:880:GLU:HG3	2.41	0.49
1:E:409:GLU:HG3	1:E:436:LYS:HB2	1.94	0.49
1:E:914:LEU:HD11	1:E:927:LEU:HD13	1.94	0.49
1:H:524:THR:CB	1:H:530:ARG:HH12	2.25	0.49
1:H:594:TYR:O	1:H:597:ASP:HB2	2.11	0.49
1:H:741:LEU:O	1:H:768:LEU:HD12	2.13	0.49
1:H:825:MET:N	1:H:852:ILE:O	2.40	0.49
1:I:797:HIS:CG	1:I:826:LYS:HB3	2.48	0.49
1:J:652:PHE:CE2	1:J:683:ILE:HG23	2.46	0.49
1:K:217:TYR:O	1:K:221:LEU:HG	2.12	0.49
1:K:788:ARG:O	1:K:791:LYS:HG3	2.11	0.49
1:A:217:TYR:O	1:A:221:LEU:HG	2.12	0.49
1:A:409:GLU:HG3	1:A:436:LYS:HB2	1.94	0.49
1:A:741:LEU:O	1:A:768:LEU:HD12	2.13	0.49
1:C:128:PHE:CG	1:C:129:ASN:N	2.80	0.49
1:C:532:GLU:OE1	1:C:744:HIS:ND1	2.41	0.49
1:C:914:LEU:HD11	1:C:927:LEU:HD13	1.94	0.49
1:E:797:HIS:CG	1:E:826:LYS:HB3	2.48	0.49
1:G:217:TYR:O	1:G:221:LEU:HG	2.12	0.49
1:G:430:TYR:O	1:G:435:LEU:HD13	2.12	0.49
1:G:788:ARG:O	1:G:791:LYS:HG3	2.11	0.49
1:H:431:THR:HA	1:H:435:LEU:HD22	1.94	0.49
1:I:370:LEU:HD13	1:I:426:LEU:HG	1.94	0.49
1:I:430:TYR:O	1:I:435:LEU:HD13	2.12	0.49
1:J:370:LEU:HD13	1:J:426:LEU:HG	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:741:LEU:HD21	1:J:755:LEU:HD21	1.94	0.49
1:K:370:LEU:HD13	1:K:426:LEU:HG	1.95	0.49
1:A:208:ALA:O	1:A:257:ASN:ND2	2.45	0.49
1:A:431:THR:HA	1:A:435:LEU:HD22	1.94	0.49
1:B:741:LEU:O	1:B:768:LEU:HD12	2.13	0.49
1:B:797:HIS:CG	1:B:826:LYS:HB3	2.48	0.49
1:C:217:TYR:O	1:C:221:LEU:HG	2.12	0.49
1:C:524:THR:CB	1:C:530:ARG:HH12	2.25	0.49
1:C:741:LEU:O	1:C:768:LEU:HD12	2.13	0.49
1:C:827:LEU:HD13	1:C:832:LEU:HD13	1.94	0.49
1:D:430:TYR:O	1:D:435:LEU:HD13	2.12	0.49
1:D:741:LEU:O	1:D:768:LEU:HD12	2.13	0.49
1:E:741:LEU:O	1:E:768:LEU:HD12	2.13	0.49
1:F:409:GLU:HG3	1:F:436:LYS:HB2	1.94	0.49
1:F:506:MET:SD	1:F:509:LEU:HD12	2.51	0.49
1:F:741:LEU:O	1:F:768:LEU:HD12	2.13	0.49
1:F:788:ARG:O	1:F:791:LYS:HG3	2.11	0.49
1:F:797:HIS:CG	1:F:826:LYS:HB3	2.48	0.49
1:G:741:LEU:O	1:G:768:LEU:HD12	2.13	0.49
1:H:175:LYS:HE2	1:H:278:THR:HA	1.94	0.49
1:H:435:LEU:HD12	1:H:436:LYS:N	2.27	0.49
1:I:409:GLU:HG3	1:I:436:LYS:HB2	1.94	0.49
1:I:410:PRO:HD3	1:I:437:PRO:HG2	1.93	0.49
1:J:594:TYR:O	1:J:597:ASP:HB2	2.11	0.49
1:K:410:PRO:HD3	1:K:437:PRO:HG2	1.93	0.49
1:K:954:TRP:CZ2	1:K:972:PHE:HB3	2.47	0.49
1:A:572:SER:CB	1:A:602:LEU:HD11	2.39	0.49
1:A:825:MET:N	1:A:852:ILE:O	2.40	0.49
1:A:914:LEU:HD11	1:A:927:LEU:HD13	1.94	0.49
1:B:560:ASN:O	1:B:563:SER:OG	2.19	0.49
1:C:427:LEU:HD12	1:C:438:THR:C	2.33	0.49
1:D:480:ILE:O	1:D:482:ASP:N	2.44	0.49
1:D:892:VAL:O	1:D:895:SER:OG	2.15	0.49
1:E:954:TRP:CZ2	1:E:972:PHE:HB3	2.47	0.49
1:F:116:ASN:HA	1:F:129:ASN:HA	1.92	0.49
1:G:435:LEU:HD12	1:G:436:LYS:N	2.27	0.49
1:G:480:ILE:O	1:G:482:ASP:N	2.44	0.49
1:H:560:ASN:O	1:H:563:SER:OG	2.19	0.49
1:I:217:TYR:O	1:I:221:LEU:HG	2.12	0.49
1:J:217:TYR:O	1:J:221:LEU:HG	2.12	0.49
1:J:797:HIS:CG	1:J:826:LYS:HB3	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:410:PRO:HD3	1:A:437:PRO:HG2	1.93	0.49
1:B:203:ILE:O	1:B:248:ASP:N	2.40	0.49
1:B:865:ASN:N	1:B:889:CYS:SG	2.86	0.49
1:C:269:HIS:CD2	1:C:270:ARG:HG3	2.48	0.49
1:C:954:TRP:CZ2	1:C:972:PHE:HB3	2.47	0.49
1:D:827:LEU:HD13	1:D:832:LEU:HD13	1.94	0.49
1:E:364:GLN:HB2	1:E:449:TYR:CE2	2.47	0.49
1:G:914:LEU:O	1:G:917:TRP:HB2	2.13	0.49
1:H:652:PHE:CE2	1:H:683:ILE:HG23	2.46	0.49
1:H:741:LEU:HD21	1:H:755:LEU:HD21	1.94	0.49
1:H:954:TRP:CZ2	1:H:972:PHE:HB3	2.47	0.49
1:I:532:GLU:OE1	1:I:744:HIS:ND1	2.41	0.49
1:J:410:PRO:HD3	1:J:437:PRO:HG2	1.93	0.49
1:J:821:ASP:O	1:J:823:GLN:NE2	2.46	0.49
1:J:954:TRP:CZ2	1:J:972:PHE:HB3	2.47	0.49
1:K:370:LEU:HA	1:K:370:LEU:HD23	1.66	0.49
1:K:427:LEU:HD12	1:K:438:THR:C	2.33	0.49
1:K:821:ASP:O	1:K:823:GLN:NE2	2.46	0.49
1:A:166:LEU:HD21	1:A:291:GLY:H	1.77	0.49
1:A:370:LEU:HD13	1:A:426:LEU:HG	1.94	0.49
1:B:431:THR:HA	1:B:435:LEU:HD22	1.94	0.49
1:B:524:THR:CB	1:B:530:ARG:HH12	2.25	0.49
1:D:524:THR:CB	1:D:530:ARG:HH12	2.25	0.49
1:E:166:LEU:HD21	1:E:291:GLY:H	1.77	0.49
1:E:914:LEU:O	1:E:917:TRP:HB2	2.13	0.49
1:F:175:LYS:HE2	1:F:278:THR:HA	1.94	0.49
1:G:364:GLN:HA	1:G:367:TYR:CD2	2.32	0.49
1:H:370:LEU:HD13	1:H:426:LEU:HG	1.95	0.49
1:I:269:HIS:CD2	1:I:270:ARG:HG3	2.48	0.49
1:I:524:THR:CB	1:I:530:ARG:HH12	2.25	0.49
1:I:821:ASP:O	1:I:823:GLN:NE2	2.46	0.49
1:K:125:ASP:OD2	1:J:144:HIS:NE2	2.45	0.49
1:K:524:THR:CB	1:K:530:ARG:HH12	2.25	0.49
1:B:175:LYS:HE2	1:B:278:THR:HA	1.94	0.49
1:B:848:ILE:CG1	1:B:880:GLU:HG3	2.41	0.49
1:E:741:LEU:HD21	1:E:755:LEU:HD21	1.94	0.49
1:G:532:GLU:OE1	1:G:744:HIS:ND1	2.41	0.49
1:G:797:HIS:CG	1:G:826:LYS:HB3	2.47	0.49
1:H:797:HIS:CG	1:H:826:LYS:HB3	2.48	0.49
1:H:821:ASP:O	1:H:823:GLN:NE2	2.46	0.49
1:H:985:ARG:HB2	1:H:1012:ILE:HD13	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:I:865:ASN:N	1:I:889:CYS:SG	2.86	0.49
1:A:430:TYR:O	1:A:435:LEU:HD13	2.12	0.48
1:A:435:LEU:HD12	1:A:436:LYS:N	2.27	0.48
1:A:798:LEU:HB2	1:A:808:MET:HE3	1.95	0.48
1:B:435:LEU:HD12	1:B:436:LYS:N	2.28	0.48
1:B:954:TRP:CZ2	1:B:972:PHE:HB3	2.47	0.48
1:C:175:LYS:HE2	1:C:278:THR:HA	1.94	0.48
1:C:797:HIS:CG	1:C:826:LYS:HB3	2.48	0.48
1:D:166:LEU:HD21	1:D:291:GLY:H	1.77	0.48
1:D:797:HIS:CG	1:D:826:LYS:HB3	2.48	0.48
1:D:954:TRP:CZ2	1:D:972:PHE:HB3	2.47	0.48
1:H:827:LEU:HD13	1:H:832:LEU:HD13	1.94	0.48
1:I:985:ARG:HB2	1:I:1012:ILE:HD13	1.95	0.48
1:K:175:LYS:HE2	1:K:278:THR:HA	1.94	0.48
1:K:409:GLU:HG3	1:K:436:LYS:HB2	1.94	0.48
1:K:797:HIS:CG	1:K:826:LYS:HB3	2.48	0.48
1:K:985:ARG:HB2	1:K:1012:ILE:HD13	1.95	0.48
1:A:175:LYS:HE2	1:A:278:THR:HA	1.94	0.48
1:D:175:LYS:HE2	1:D:278:THR:HA	1.94	0.48
1:D:431:THR:HA	1:D:435:LEU:HD22	1.94	0.48
1:E:269:HIS:CD2	1:E:270:ARG:HG3	2.48	0.48
1:G:269:HIS:CD2	1:G:270:ARG:HG3	2.48	0.48
1:G:821:ASP:O	1:G:823:GLN:NE2	2.46	0.48
1:H:166:LEU:HD21	1:H:291:GLY:H	1.77	0.48
1:H:269:HIS:CD2	1:H:270:ARG:HG3	2.48	0.48
1:H:448:GLU:OE1	1:H:493:TYR:OH	2.17	0.48
1:I:166:LEU:HD21	1:I:291:GLY:H	1.77	0.48
1:I:827:LEU:HD13	1:I:832:LEU:HD13	1.94	0.48
1:J:166:LEU:HD21	1:J:291:GLY:H	1.77	0.48
1:J:175:LYS:HE2	1:J:278:THR:HA	1.94	0.48
1:J:985:ARG:HB2	1:J:1012:ILE:HD13	1.95	0.48
1:A:524:THR:CB	1:A:530:ARG:HH12	2.25	0.48
1:A:797:HIS:CG	1:A:826:LYS:HB3	2.48	0.48
1:A:821:ASP:O	1:A:823:GLN:NE2	2.46	0.48
1:D:128:PHE:CG	1:D:129:ASN:N	2.80	0.48
1:F:427:LEU:HD12	1:F:438:THR:C	2.33	0.48
1:F:825:MET:N	1:F:852:ILE:O	2.40	0.48
1:F:865:ASN:N	1:F:889:CYS:SG	2.86	0.48
1:G:431:THR:HA	1:G:435:LEU:HD22	1.94	0.48
1:H:430:TYR:O	1:H:435:LEU:HD13	2.12	0.48
1:I:203:ILE:O	1:I:248:ASP:N	2.40	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:430:TYR:O	1:J:435:LEU:HD13	2.12	0.48
1:J:435:LEU:HD12	1:J:436:LYS:N	2.27	0.48
1:K:741:LEU:HD21	1:K:755:LEU:HD21	1.94	0.48
1:K:914:LEU:HD11	1:K:927:LEU:HD13	1.94	0.48
1:A:269:HIS:CD2	1:A:270:ARG:HG3	2.48	0.48
1:B:430:TYR:O	1:B:435:LEU:HD13	2.12	0.48
1:B:448:GLU:OE1	1:B:493:TYR:OH	2.17	0.48
1:D:427:LEU:HD12	1:D:438:THR:C	2.33	0.48
1:D:865:ASN:N	1:D:889:CYS:SG	2.86	0.48
1:E:175:LYS:HE2	1:E:278:THR:HA	1.94	0.48
1:E:421:LEU:O	1:E:425:GLY:N	2.42	0.48
1:F:821:ASP:O	1:F:823:GLN:NE2	2.46	0.48
1:F:914:LEU:HD11	1:F:927:LEU:HD13	1.94	0.48
1:G:409:GLU:HG3	1:G:436:LYS:HB2	1.94	0.48
1:G:427:LEU:HD12	1:G:438:THR:C	2.33	0.48
1:G:985:ARG:HB2	1:G:1012:ILE:HD13	1.95	0.48
1:H:865:ASN:N	1:H:889:CYS:SG	2.86	0.48
1:J:269:HIS:CD2	1:J:270:ARG:HG3	2.48	0.48
1:J:427:LEU:HD12	1:J:438:THR:C	2.33	0.48
1:J:524:THR:CB	1:J:530:ARG:HH12	2.25	0.48
1:J:865:ASN:N	1:J:889:CYS:SG	2.86	0.48
1:A:427:LEU:HD12	1:A:438:THR:C	2.33	0.48
1:A:914:LEU:O	1:A:917:TRP:HB2	2.13	0.48
1:A:985:ARG:HB2	1:A:1012:ILE:HD13	1.95	0.48
1:B:427:LEU:HD12	1:B:438:THR:C	2.33	0.48
1:B:787:LEU:HA	1:B:790:LEU:HB2	1.96	0.48
1:C:408:PHE:HE2	1:C:439:TYR:CE2	2.32	0.48
1:C:512:VAL:HG11	1:C:554:PHE:CZ	2.49	0.48
1:D:370:LEU:HD13	1:D:426:LEU:HG	1.95	0.48
1:D:679:TYR:HA	1:D:682:LYS:HG3	1.95	0.48
1:E:848:ILE:CG1	1:E:880:GLU:HG3	2.41	0.48
1:G:780:ALA:O	1:G:783:LEU:HB3	2.14	0.48
1:G:1010:TYR:C	1:G:1012:ILE:H	2.17	0.48
1:H:780:ALA:O	1:H:783:LEU:HB3	2.14	0.48
1:I:141:LYS:HB2	1:I:152:LEU:HD11	1.96	0.48
1:J:533:SEP:HA	1:J:693:HIS:ND1	2.29	0.48
1:J:802:SER:O	1:J:803:ASP:HB2	2.14	0.48
1:K:141:LYS:HB2	1:K:152:LEU:HD11	1.96	0.48
1:A:865:ASN:N	1:A:889:CYS:SG	2.86	0.48
1:B:370:LEU:HD13	1:B:426:LEU:HG	1.95	0.48
1:B:408:PHE:HE2	1:B:439:TYR:CE2	2.32	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:430:TYR:O	1:C:435:LEU:HD13	2.12	0.48
1:C:431:THR:HA	1:C:435:LEU:HD22	1.94	0.48
1:C:858:ASN:N	1:C:888:TRP:HE1	2.11	0.48
1:D:269:HIS:CD2	1:D:270:ARG:HG3	2.48	0.48
1:D:283:CYS:O	1:D:286:HIS:ND1	2.47	0.48
1:D:314:VAL:O	1:D:318:VAL:HG23	2.14	0.48
1:E:217:TYR:O	1:E:221:LEU:HG	2.12	0.48
1:E:679:TYR:HA	1:E:682:LYS:HG3	1.95	0.48
1:F:892:VAL:O	1:F:895:SER:OG	2.15	0.48
1:G:370:LEU:HD13	1:G:426:LEU:HG	1.95	0.48
1:G:533:SEP:HA	1:G:693:HIS:ND1	2.29	0.48
1:G:825:MET:N	1:G:852:ILE:O	2.40	0.48
1:G:914:LEU:HD11	1:G:927:LEU:HD13	1.94	0.48
1:H:914:LEU:O	1:H:917:TRP:HB2	2.13	0.48
1:I:427:LEU:HD12	1:I:438:THR:C	2.33	0.48
1:I:533:SEP:HA	1:I:693:HIS:ND1	2.29	0.48
1:I:824:GLU:HG2	1:I:852:ILE:HB	1.96	0.48
1:K:166:LEU:HD21	1:K:291:GLY:H	1.77	0.48
1:A:141:LYS:HB2	1:A:152:LEU:HD11	1.96	0.48
1:A:512:VAL:HG11	1:A:554:PHE:CZ	2.49	0.48
1:A:872:ILE:HD11	1:A:898:LYS:O	2.14	0.48
1:B:364:GLN:HA	1:B:367:TYR:CD2	2.32	0.48
1:D:408:PHE:HE2	1:D:439:TYR:CE2	2.32	0.48
1:E:821:ASP:O	1:E:823:GLN:NE2	2.46	0.48
1:E:827:LEU:HD13	1:E:832:LEU:HD13	1.94	0.48
1:F:679:TYR:HA	1:F:682:LYS:HG3	1.95	0.48
1:F:827:LEU:HD13	1:F:832:LEU:HD13	1.94	0.48
1:G:408:PHE:HE2	1:G:439:TYR:CE2	2.32	0.48
1:H:408:PHE:HE2	1:H:439:TYR:CE2	2.32	0.48
1:H:914:LEU:HD11	1:H:927:LEU:HD13	1.94	0.48
1:I:435:LEU:HD12	1:I:436:LYS:N	2.28	0.48
1:I:780:ALA:O	1:I:783:LEU:HB3	2.14	0.48
1:I:914:LEU:O	1:I:917:TRP:HB2	2.13	0.48
1:I:1010:TYR:C	1:I:1012:ILE:H	2.17	0.48
1:J:409:GLU:HG3	1:J:436:LYS:HB2	1.94	0.48
1:K:435:LEU:HD12	1:K:436:LYS:N	2.27	0.48
1:K:685:SER:OG	1:J:985:ARG:NE	2.47	0.48
1:A:408:PHE:HE2	1:A:439:TYR:CE2	2.32	0.48
1:B:598:PHE:C	1:B:600:GLU:H	2.17	0.48
1:B:821:ASP:O	1:B:823:GLN:NE2	2.46	0.48
1:B:858:ASN:N	1:B:888:TRP:HE1	2.11	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:338:PRO:O	1:D:342:VAL:HG23	2.14	0.48
1:D:858:ASN:N	1:D:888:TRP:HE1	2.11	0.48
1:E:338:PRO:O	1:E:342:VAL:HG23	2.14	0.48
1:E:524:THR:CB	1:E:530:ARG:HH12	2.25	0.48
1:E:824:GLU:HG2	1:E:852:ILE:HB	1.96	0.48
1:F:915:LYS:HA	1:F:945:ALA:H	1.79	0.48
1:H:409:GLU:HG3	1:H:436:LYS:HB2	1.94	0.48
1:H:427:LEU:HD12	1:H:438:THR:C	2.33	0.48
1:H:512:VAL:HG11	1:H:554:PHE:CZ	2.49	0.48
1:H:824:GLU:HG2	1:H:852:ILE:HB	1.96	0.48
1:I:338:PRO:O	1:I:342:VAL:HG23	2.14	0.48
1:I:598:PHE:C	1:I:600:GLU:H	2.17	0.48
1:I:802:SER:O	1:I:803:ASP:HB2	2.14	0.48
1:I:915:LYS:HA	1:I:945:ALA:H	1.79	0.48
1:J:141:LYS:HB2	1:J:152:LEU:HD11	1.96	0.48
1:J:360:THR:HG21	1:J:493:TYR:CD1	2.49	0.48
1:K:1010:TYR:C	1:K:1012:ILE:H	2.17	0.48
1:A:915:LYS:HA	1:A:945:ALA:H	1.79	0.48
1:B:802:SER:O	1:B:803:ASP:HB2	2.14	0.48
1:B:872:ILE:HD11	1:B:898:LYS:O	2.14	0.48
1:B:985:ARG:HB2	1:B:1012:ILE:HD13	1.95	0.48
1:C:370:LEU:HD13	1:C:426:LEU:HG	1.95	0.48
1:C:872:ILE:HD11	1:C:898:LYS:O	2.14	0.48
1:D:598:PHE:C	1:D:600:GLU:H	2.17	0.48
1:D:787:LEU:HA	1:D:790:LEU:HB2	1.96	0.48
1:D:824:GLU:HG2	1:D:852:ILE:HB	1.96	0.48
1:E:802:SER:O	1:E:803:ASP:HB2	2.14	0.48
1:E:858:ASN:N	1:E:888:TRP:HE1	2.11	0.48
1:F:338:PRO:O	1:F:342:VAL:HG23	2.14	0.48
1:F:802:SER:O	1:F:803:ASP:HB2	2.14	0.48
1:F:824:GLU:HG2	1:F:852:ILE:HB	1.96	0.48
1:F:858:ASN:N	1:F:888:TRP:HE1	2.11	0.48
1:F:914:LEU:O	1:F:917:TRP:HB2	2.13	0.48
1:F:985:ARG:HB2	1:F:1012:ILE:HD13	1.95	0.48
1:G:679:TYR:HA	1:G:682:LYS:HG3	1.95	0.48
1:G:858:ASN:N	1:G:888:TRP:HE1	2.11	0.48
1:H:360:THR:HG21	1:H:493:TYR:CD1	2.49	0.48
1:H:872:ILE:HD11	1:H:898:LYS:O	2.14	0.48
1:I:360:THR:HG21	1:I:493:TYR:CD1	2.49	0.48
1:J:914:LEU:HD11	1:J:927:LEU:HD13	1.94	0.48
1:K:560:ASN:O	1:K:563:SER:OG	2.19	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:787:LEU:HA	1:K:790:LEU:HB2	1.96	0.48
1:K:865:ASN:N	1:K:889:CYS:SG	2.86	0.48
1:A:598:PHE:C	1:A:600:GLU:H	2.17	0.48
1:B:141:LYS:HB2	1:B:152:LEU:HD11	1.96	0.48
1:B:512:VAL:HG11	1:B:554:PHE:CZ	2.49	0.48
1:B:824:GLU:HG2	1:B:852:ILE:HB	1.96	0.48
1:C:679:TYR:HA	1:C:682:LYS:HG3	1.95	0.48
1:C:821:ASP:O	1:C:823:GLN:NE2	2.46	0.48
1:C:824:GLU:HG2	1:C:852:ILE:HB	1.96	0.48
1:E:427:LEU:HD12	1:E:438:THR:C	2.33	0.48
1:E:431:THR:HA	1:E:435:LEU:HD22	1.94	0.48
1:E:598:PHE:C	1:E:600:GLU:H	2.17	0.48
1:E:857:GLU:C	1:E:888:TRP:HE1	2.18	0.48
1:F:408:PHE:HE2	1:F:439:TYR:CE2	2.32	0.48
1:F:780:ALA:O	1:F:783:LEU:HB3	2.14	0.48
1:G:141:LYS:HB2	1:G:152:LEU:HD11	1.96	0.48
1:G:360:THR:HG21	1:G:493:TYR:CD1	2.49	0.48
1:G:827:LEU:HD13	1:G:832:LEU:HD13	1.94	0.48
1:H:141:LYS:HB2	1:H:152:LEU:HD11	1.96	0.48
1:I:914:LEU:HD11	1:I:927:LEU:HD13	1.94	0.48
1:J:314:VAL:O	1:J:318:VAL:HG23	2.14	0.48
1:J:857:GLU:C	1:J:888:TRP:HE1	2.17	0.48
1:J:1010:TYR:C	1:J:1012:ILE:H	2.17	0.48
1:K:780:ALA:O	1:K:783:LEU:HB3	2.14	0.47
1:K:872:ILE:HD11	1:K:898:LYS:O	2.14	0.47
1:K:915:LYS:HA	1:K:945:ALA:H	1.79	0.47
1:A:532:GLU:OE1	1:A:744:HIS:ND1	2.41	0.47
1:A:533:SEP:HA	1:A:693:HIS:ND1	2.29	0.47
1:A:824:GLU:HG2	1:A:852:ILE:HB	1.96	0.47
1:B:166:LEU:HD13	1:B:288:ARG:HA	1.96	0.47
1:B:780:ALA:O	1:B:783:LEU:HB3	2.14	0.47
1:B:914:LEU:O	1:B:917:TRP:HB2	2.13	0.47
1:B:915:LYS:HA	1:B:945:ALA:H	1.79	0.47
1:C:283:CYS:O	1:C:286:HIS:ND1	2.47	0.47
1:C:338:PRO:O	1:C:342:VAL:HG23	2.14	0.47
1:C:914:LEU:O	1:C:917:TRP:HB2	2.13	0.47
1:D:821:ASP:O	1:D:823:GLN:NE2	2.46	0.47
1:D:872:ILE:HD11	1:D:898:LYS:O	2.14	0.47
1:E:314:VAL:O	1:E:318:VAL:HG23	2.14	0.47
1:E:370:LEU:HD13	1:E:426:LEU:HG	1.95	0.47
1:E:512:VAL:HG11	1:E:554:PHE:CZ	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:533:SEP:HA	1:E:693:HIS:ND1	2.29	0.47
1:F:269:HIS:CD2	1:F:270:ARG:HG3	2.48	0.47
1:F:512:VAL:HG11	1:F:554:PHE:CZ	2.49	0.47
1:F:598:PHE:C	1:F:600:GLU:H	2.17	0.47
1:F:857:GLU:C	1:F:888:TRP:HE1	2.17	0.47
1:G:741:LEU:HD21	1:G:755:LEU:HD21	1.94	0.47
1:G:824:GLU:HG2	1:G:852:ILE:HB	1.96	0.47
1:G:872:ILE:HD11	1:G:898:LYS:O	2.14	0.47
1:H:533:SEP:HA	1:H:693:HIS:ND1	2.29	0.47
1:J:824:GLU:HG2	1:J:852:ILE:HB	1.96	0.47
1:J:914:LEU:O	1:J:917:TRP:HB2	2.13	0.47
1:K:289:HIS:CE1	1:A:119:PRO:HA	2.49	0.47
1:K:314:VAL:O	1:K:318:VAL:HG23	2.14	0.47
1:K:360:THR:HG21	1:K:493:TYR:CD1	2.49	0.47
1:K:408:PHE:HE2	1:K:439:TYR:CE2	2.32	0.47
1:K:512:VAL:HG11	1:K:554:PHE:CZ	2.49	0.47
1:A:338:PRO:O	1:A:342:VAL:HG23	2.14	0.47
1:A:662:LEU:HB2	1:A:687:ALA:CB	2.45	0.47
1:A:857:GLU:C	1:A:888:TRP:HE1	2.17	0.47
1:A:1010:TYR:C	1:A:1012:ILE:H	2.17	0.47
1:C:141:LYS:HB2	1:C:152:LEU:HD11	1.96	0.47
1:C:985:ARG:HB2	1:C:1012:ILE:HD13	1.95	0.47
1:D:512:VAL:HG11	1:D:554:PHE:CZ	2.49	0.47
1:D:546:LEU:HA	1:D:549:ILE:HB	1.96	0.47
1:D:1010:TYR:C	1:D:1012:ILE:H	2.17	0.47
1:E:1010:TYR:C	1:E:1012:ILE:H	2.17	0.47
1:F:360:THR:HG21	1:F:493:TYR:CD1	2.49	0.47
1:F:533:SEP:HA	1:F:693:HIS:ND1	2.29	0.47
1:G:598:PHE:C	1:G:600:GLU:H	2.17	0.47
1:H:598:PHE:C	1:H:600:GLU:H	2.17	0.47
1:H:858:ASN:N	1:H:888:TRP:HE1	2.11	0.47
1:H:1010:TYR:C	1:H:1012:ILE:H	2.17	0.47
1:I:314:VAL:O	1:I:318:VAL:HG23	2.14	0.47
1:J:512:VAL:HG11	1:J:554:PHE:CZ	2.49	0.47
1:J:546:LEU:HA	1:J:549:ILE:HB	1.97	0.47
1:J:858:ASN:N	1:J:888:TRP:HE1	2.11	0.47
1:K:532:GLU:OE1	1:K:744:HIS:ND1	2.41	0.47
1:K:533:SEP:HA	1:K:693:HIS:ND1	2.29	0.47
1:K:824:GLU:HG2	1:K:852:ILE:HB	1.96	0.47
1:K:858:ASN:N	1:K:888:TRP:HE1	2.11	0.47
1:A:596:PHE:O	1:A:599:PHE:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:662:LEU:HB2	1:C:687:ALA:CB	2.44	0.47
1:D:533:SEP:HA	1:D:693:HIS:ND1	2.29	0.47
1:D:915:LYS:HA	1:D:945:ALA:H	1.79	0.47
1:F:314:VAL:O	1:F:318:VAL:HG23	2.14	0.47
1:F:546:LEU:HA	1:F:549:ILE:HB	1.97	0.47
1:G:314:VAL:O	1:G:318:VAL:HG23	2.14	0.47
1:G:338:PRO:O	1:G:342:VAL:HG23	2.14	0.47
1:G:546:LEU:HA	1:G:549:ILE:HB	1.96	0.47
1:G:613:LYS:NZ	1:G:663:GLU:HB2	2.30	0.47
1:G:662:LEU:HB2	1:G:687:ALA:CB	2.45	0.47
1:G:802:SER:O	1:G:803:ASP:HB2	2.14	0.47
1:H:679:TYR:HA	1:H:682:LYS:HG3	1.95	0.47
1:I:546:LEU:HA	1:I:549:ILE:HB	1.96	0.47
1:I:858:ASN:N	1:I:888:TRP:HE1	2.11	0.47
1:I:872:ILE:HD11	1:I:898:LYS:O	2.14	0.47
1:K:546:LEU:HA	1:K:549:ILE:HB	1.97	0.47
1:K:662:LEU:HB2	1:K:687:ALA:CB	2.45	0.47
1:K:706:SER:HA	1:K:709:ARG:NE	2.30	0.47
1:A:166:LEU:HD13	1:A:288:ARG:HA	1.96	0.47
1:A:858:ASN:N	1:A:888:TRP:HE1	2.11	0.47
1:B:533:SEP:HA	1:B:693:HIS:ND1	2.29	0.47
1:B:857:GLU:C	1:B:888:TRP:HE1	2.17	0.47
1:C:166:LEU:HD13	1:C:288:ARG:HA	1.97	0.47
1:C:613:LYS:NZ	1:C:663:GLU:HB2	2.30	0.47
1:E:872:ILE:HD11	1:E:898:LYS:O	2.14	0.47
1:F:370:LEU:HD13	1:F:426:LEU:HG	1.95	0.47
1:F:596:PHE:O	1:F:599:PHE:HB2	2.15	0.47
1:F:613:LYS:NZ	1:F:663:GLU:HB2	2.30	0.47
1:F:743:ILE:O	1:F:773:ILE:HD11	2.15	0.47
1:I:408:PHE:HE2	1:I:439:TYR:CE2	2.32	0.47
1:I:662:LEU:HB2	1:I:687:ALA:CB	2.45	0.47
1:I:741:LEU:HD21	1:I:755:LEU:HD21	1.94	0.47
1:J:598:PHE:C	1:J:600:GLU:H	2.17	0.47
1:J:679:TYR:HA	1:J:682:LYS:HG3	1.95	0.47
1:K:802:SER:O	1:K:803:ASP:HB2	2.14	0.47
1:A:812:VAL:HA	1:A:815:LEU:HD12	1.96	0.47
1:A:824:GLU:HA	1:A:852:ILE:HB	1.97	0.47
1:B:338:PRO:O	1:B:342:VAL:HG23	2.14	0.47
1:B:524:THR:OG1	1:B:530:ARG:NH1	2.28	0.47
1:C:546:LEU:HA	1:C:549:ILE:HB	1.97	0.47
1:C:596:PHE:O	1:C:599:PHE:HB2	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:915:LYS:HA	1:C:945:ALA:H	1.79	0.47
1:D:141:LYS:HB2	1:D:152:LEU:HD11	1.96	0.47
1:F:431:THR:HA	1:F:435:LEU:HD22	1.94	0.47
1:G:915:LYS:HA	1:G:945:ALA:H	1.79	0.47
1:H:743:ILE:O	1:H:773:ILE:HD11	2.15	0.47
1:H:808:MET:O	1:H:812:VAL:HG23	2.15	0.47
1:H:857:GLU:C	1:H:888:TRP:HE1	2.17	0.47
1:I:857:GLU:C	1:I:888:TRP:HE1	2.18	0.47
1:I:970:PHE:CD1	1:I:970:PHE:C	2.88	0.47
1:J:706:SER:HA	1:J:709:ARG:NE	2.30	0.47
1:J:872:ILE:HD11	1:J:898:LYS:O	2.14	0.47
1:K:970:PHE:CD1	1:K:970:PHE:C	2.88	0.47
1:B:283:CYS:O	1:B:286:HIS:ND1	2.47	0.47
1:B:314:VAL:O	1:B:318:VAL:HG23	2.14	0.47
1:B:613:LYS:NZ	1:B:663:GLU:HB2	2.30	0.47
1:D:914:LEU:O	1:D:917:TRP:HB2	2.13	0.47
1:D:914:LEU:H	1:D:944:LEU:HD23	1.80	0.47
1:D:970:PHE:C	1:D:970:PHE:CD1	2.88	0.47
1:E:360:THR:HG21	1:E:493:TYR:CD1	2.49	0.47
1:E:546:LEU:HA	1:E:549:ILE:HB	1.97	0.47
1:E:596:PHE:O	1:E:599:PHE:HB2	2.15	0.47
1:E:662:LEU:HB2	1:E:687:ALA:CB	2.45	0.47
1:E:743:ILE:O	1:E:773:ILE:HD11	2.15	0.47
1:E:833:THR:O	1:E:836:SER:OG	2.32	0.47
1:E:888:TRP:HA	1:E:892:VAL:HG21	1.96	0.47
1:E:970:PHE:CD1	1:E:970:PHE:C	2.88	0.47
1:F:141:LYS:HB2	1:F:152:LEU:HD11	1.96	0.47
1:F:455:LEU:HD23	1:F:455:LEU:HA	1.69	0.47
1:F:872:ILE:HD11	1:F:898:LYS:O	2.14	0.47
1:G:868:LEU:HD21	1:G:886:LEU:CD2	2.45	0.47
1:H:338:PRO:O	1:H:342:VAL:HG23	2.14	0.47
1:H:546:LEU:HA	1:H:549:ILE:HB	1.97	0.47
1:H:770:LEU:HD23	1:H:770:LEU:HA	1.74	0.47
1:H:915:LYS:HA	1:H:945:ALA:H	1.79	0.47
1:I:679:TYR:HA	1:I:682:LYS:HG3	1.95	0.47
1:J:338:PRO:O	1:J:342:VAL:HG23	2.14	0.47
1:J:662:LEU:HB2	1:J:687:ALA:CB	2.45	0.47
1:J:868:LEU:HD21	1:J:886:LEU:CD2	2.45	0.47
1:J:915:LYS:HA	1:J:945:ALA:H	1.79	0.47
1:K:145:ARG:O	1:K:146:HIS:HB2	2.15	0.47
1:K:158:LEU:HB3	1:K:193:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:311:ALA:O	1:J:145:ARG:NE	2.46	0.47
1:K:338:PRO:O	1:K:342:VAL:HG23	2.14	0.47
1:K:506:MET:HG3	1:K:571:LEU:HD22	1.97	0.47
1:K:868:LEU:HD21	1:K:886:LEU:CD2	2.45	0.47
1:K:914:LEU:H	1:K:944:LEU:HD23	1.80	0.47
1:A:314:VAL:O	1:A:318:VAL:HG23	2.14	0.47
1:A:360:THR:HG21	1:A:493:TYR:CD1	2.49	0.47
1:A:706:SER:HA	1:A:709:ARG:NE	2.30	0.47
1:A:787:LEU:HA	1:A:790:LEU:HB2	1.96	0.47
1:B:506:MET:HG3	1:B:571:LEU:HD22	1.97	0.47
1:B:546:LEU:HA	1:B:549:ILE:HB	1.97	0.47
1:B:662:LEU:HB2	1:B:687:ALA:CB	2.45	0.47
1:B:798:LEU:HB2	1:B:808:MET:HE3	1.96	0.47
1:B:812:VAL:HA	1:B:815:LEU:HD12	1.96	0.47
1:B:824:GLU:HA	1:B:852:ILE:HB	1.97	0.47
1:C:506:MET:HG3	1:C:571:LEU:HD22	1.97	0.47
1:C:598:PHE:C	1:C:600:GLU:H	2.17	0.47
1:C:780:ALA:O	1:C:783:LEU:HB3	2.14	0.47
1:C:812:VAL:HA	1:C:815:LEU:HD12	1.96	0.47
1:C:857:GLU:C	1:C:888:TRP:HE1	2.17	0.47
1:D:613:LYS:HZ2	1:D:663:GLU:HB2	1.79	0.47
1:D:812:VAL:HA	1:D:815:LEU:HD12	1.97	0.47
1:D:833:THR:O	1:D:836:SER:OG	2.32	0.47
1:D:857:GLU:C	1:D:888:TRP:HE1	2.18	0.47
1:D:868:LEU:HD21	1:D:886:LEU:CD2	2.45	0.47
1:E:158:LEU:HB3	1:E:193:ALA:HB3	1.97	0.47
1:E:408:PHE:HE2	1:E:439:TYR:CE2	2.32	0.47
1:E:780:ALA:O	1:E:783:LEU:HB3	2.14	0.47
1:E:824:GLU:HA	1:E:852:ILE:HB	1.97	0.47
1:E:868:LEU:HD21	1:E:886:LEU:CD2	2.45	0.47
1:F:824:GLU:HA	1:F:852:ILE:HB	1.97	0.47
1:F:833:THR:O	1:F:836:SER:OG	2.32	0.47
1:F:1010:TYR:C	1:F:1012:ILE:H	2.17	0.47
1:G:970:PHE:C	1:G:970:PHE:CD1	2.88	0.47
1:H:506:MET:HG3	1:H:571:LEU:HD22	1.97	0.47
1:H:802:SER:O	1:H:803:ASP:HB2	2.14	0.47
1:H:824:GLU:HA	1:H:852:ILE:HB	1.97	0.47
1:I:512:VAL:HG11	1:I:554:PHE:CZ	2.49	0.47
1:I:596:PHE:O	1:I:599:PHE:HB2	2.15	0.47
1:I:985:ARG:NE	1:J:685:SER:OG	2.48	0.47
1:J:408:PHE:HE2	1:J:439:TYR:CE2	2.32	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:780:ALA:O	1:J:783:LEU:HB3	2.14	0.47
1:J:787:LEU:HA	1:J:790:LEU:HB2	1.96	0.47
1:J:888:TRP:HA	1:J:892:VAL:HG21	1.96	0.47
1:J:914:LEU:H	1:J:944:LEU:HD23	1.80	0.47
1:J:921:ASP:OD1	1:J:950:SER:OG	2.25	0.47
1:A:158:LEU:HB3	1:A:193:ALA:HB3	1.97	0.47
1:A:198:ARG:HG2	1:A:242:GLU:HB3	1.97	0.47
1:A:506:MET:HG3	1:A:571:LEU:HD22	1.97	0.47
1:A:546:LEU:HA	1:A:549:ILE:HB	1.97	0.47
1:B:360:THR:HG21	1:B:493:TYR:CD1	2.49	0.47
1:B:679:TYR:HA	1:B:682:LYS:HG3	1.95	0.47
1:B:825:MET:N	1:B:852:ILE:O	2.40	0.47
1:C:743:ILE:O	1:C:773:ILE:HD11	2.15	0.47
1:C:868:LEU:HD21	1:C:886:LEU:CD2	2.45	0.47
1:C:888:TRP:HA	1:C:892:VAL:HG21	1.96	0.47
1:C:914:LEU:H	1:C:944:LEU:HD23	1.80	0.47
1:C:970:PHE:CD1	1:C:970:PHE:C	2.88	0.47
1:D:824:GLU:HA	1:D:852:ILE:HB	1.97	0.47
1:D:888:TRP:HA	1:D:892:VAL:HG21	1.96	0.47
1:E:145:ARG:O	1:E:146:HIS:HB2	2.15	0.47
1:E:787:LEU:HA	1:E:790:LEU:HB2	1.96	0.47
1:F:158:LEU:HB3	1:F:193:ALA:HB3	1.97	0.47
1:F:166:LEU:HD13	1:F:288:ARG:HA	1.97	0.47
1:F:524:THR:CB	1:F:530:ARG:HH12	2.25	0.47
1:F:787:LEU:HA	1:F:790:LEU:HB2	1.96	0.47
1:G:166:LEU:HD13	1:G:288:ARG:HA	1.96	0.47
1:G:512:VAL:HG11	1:G:554:PHE:CZ	2.49	0.47
1:H:145:ARG:O	1:H:146:HIS:HB2	2.15	0.47
1:H:314:VAL:O	1:H:318:VAL:HG23	2.14	0.47
1:H:596:PHE:O	1:H:599:PHE:HB2	2.15	0.47
1:I:370:LEU:HA	1:I:370:LEU:HD23	1.66	0.47
1:I:506:MET:HG3	1:I:571:LEU:HD22	1.97	0.47
1:J:596:PHE:O	1:J:599:PHE:HB2	2.15	0.47
1:K:166:LEU:HD13	1:K:288:ARG:HA	1.97	0.47
1:K:598:PHE:C	1:K:600:GLU:H	2.17	0.47
1:K:824:GLU:HA	1:K:852:ILE:HB	1.97	0.47
1:A:679:TYR:HA	1:A:682:LYS:HG3	1.95	0.47
1:A:808:MET:O	1:A:812:VAL:HG23	2.15	0.47
1:A:813:LYS:HD2	1:A:813:LYS:HA	1.78	0.47
1:A:985:ARG:NE	1:B:685:SER:OG	2.48	0.47
1:B:158:LEU:HB3	1:B:193:ALA:HB3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:706:SER:HA	1:B:709:ARG:NE	2.30	0.47
1:B:941:GLN:HG3	1:B:969:PHE:HB3	1.97	0.47
1:C:787:LEU:HA	1:C:790:LEU:HB2	1.96	0.47
1:D:360:THR:HG21	1:D:493:TYR:CD1	2.49	0.47
1:D:780:ALA:O	1:D:783:LEU:HB3	2.14	0.47
1:D:985:ARG:HB2	1:D:1012:ILE:HD13	1.95	0.47
1:E:985:ARG:HB2	1:E:1012:ILE:HD13	1.95	0.47
1:F:145:ARG:O	1:F:146:HIS:HB2	2.15	0.47
1:F:706:SER:HA	1:F:709:ARG:NE	2.30	0.47
1:G:787:LEU:HA	1:G:790:LEU:HB2	1.96	0.47
1:G:824:GLU:HA	1:G:852:ILE:HB	1.97	0.47
1:H:662:LEU:HB2	1:H:687:ALA:CB	2.45	0.47
1:H:787:LEU:HA	1:H:790:LEU:HB2	1.96	0.47
1:H:868:LEU:HD21	1:H:886:LEU:CD2	2.45	0.47
1:J:506:MET:HG3	1:J:571:LEU:HD22	1.97	0.47
1:J:808:MET:O	1:J:812:VAL:HG23	2.15	0.47
1:K:914:LEU:O	1:K:917:TRP:HB2	2.13	0.47
1:A:780:ALA:O	1:A:783:LEU:HB3	2.14	0.47
1:A:970:PHE:CD1	1:A:970:PHE:C	2.88	0.47
1:B:198:ARG:HG2	1:B:242:GLU:HB3	1.97	0.47
1:B:532:GLU:OE1	1:B:744:HIS:ND1	2.41	0.47
1:C:145:ARG:O	1:C:146:HIS:HB2	2.15	0.47
1:C:455:LEU:HD23	1:C:455:LEU:HA	1.69	0.47
1:C:865:ASN:N	1:C:889:CYS:SG	2.86	0.47
1:C:1010:TYR:C	1:C:1012:ILE:H	2.17	0.47
1:D:158:LEU:HB3	1:D:193:ALA:HB3	1.97	0.47
1:D:532:GLU:OE1	1:D:744:HIS:ND1	2.41	0.47
1:D:613:LYS:NZ	1:D:663:GLU:HB2	2.30	0.47
1:E:141:LYS:HB2	1:E:152:LEU:HD11	1.96	0.47
1:E:370:LEU:HD23	1:E:370:LEU:HA	1.65	0.47
1:E:706:SER:HA	1:E:709:ARG:NE	2.30	0.47
1:F:888:TRP:HA	1:F:892:VAL:HG21	1.96	0.47
1:I:787:LEU:HA	1:I:790:LEU:HB2	1.96	0.47
1:I:824:GLU:HA	1:I:852:ILE:HB	1.97	0.47
1:J:158:LEU:HB3	1:J:193:ALA:HB3	1.97	0.47
1:J:364:GLN:HA	1:J:367:TYR:CD2	2.32	0.47
1:K:770:LEU:HD23	1:K:770:LEU:HA	1.74	0.46
1:K:808:MET:O	1:K:812:VAL:HG23	2.15	0.46
1:A:283:CYS:O	1:A:286:HIS:ND1	2.47	0.46
1:A:613:LYS:NZ	1:A:663:GLU:HB2	2.30	0.46
1:B:405:LYS:HE2	1:B:407:ASP:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:360:THR:HG21	1:C:493:TYR:CD1	2.49	0.46
1:C:824:GLU:HA	1:C:852:ILE:HB	1.97	0.46
1:C:985:ARG:NE	1:D:685:SER:OG	2.48	0.46
1:D:166:LEU:HD13	1:D:288:ARG:HA	1.97	0.46
1:D:405:LYS:HE2	1:D:407:ASP:O	2.16	0.46
1:E:506:MET:HG3	1:E:571:LEU:HD22	1.97	0.46
1:E:865:ASN:N	1:E:889:CYS:SG	2.86	0.46
1:F:914:LEU:H	1:F:944:LEU:HD23	1.80	0.46
1:G:145:ARG:O	1:G:146:HIS:HB2	2.15	0.46
1:G:706:SER:HA	1:G:709:ARG:NE	2.30	0.46
1:G:865:ASN:N	1:G:889:CYS:SG	2.86	0.46
1:G:914:LEU:H	1:G:944:LEU:HD23	1.80	0.46
1:H:166:LEU:HD13	1:H:288:ARG:HA	1.96	0.46
1:H:283:CYS:O	1:H:286:HIS:ND1	2.47	0.46
1:H:613:LYS:NZ	1:H:663:GLU:HB2	2.30	0.46
1:H:888:TRP:HA	1:H:892:VAL:HG21	1.96	0.46
1:H:914:LEU:H	1:H:944:LEU:HD23	1.80	0.46
1:I:743:ILE:O	1:I:773:ILE:HD11	2.15	0.46
1:J:166:LEU:HD13	1:J:288:ARG:HA	1.96	0.46
1:J:824:GLU:HA	1:J:852:ILE:HB	1.97	0.46
1:J:1002:LEU:N	1:J:1024:ALA:O	2.49	0.46
1:J:1009:ASP:HB2	1:J:1013:SER:HB3	1.98	0.46
1:K:198:ARG:HG2	1:K:242:GLU:HB3	1.97	0.46
1:K:596:PHE:O	1:K:599:PHE:HB2	2.15	0.46
1:A:203:ILE:O	1:A:248:ASP:N	2.40	0.46
1:A:329:ARG:HA	1:A:329:ARG:HD3	1.77	0.46
1:A:802:SER:O	1:A:803:ASP:HB2	2.14	0.46
1:A:888:TRP:HA	1:A:892:VAL:HG21	1.96	0.46
1:B:808:MET:O	1:B:812:VAL:HG23	2.15	0.46
1:B:970:PHE:CD1	1:B:970:PHE:C	2.88	0.46
1:C:158:LEU:HB3	1:C:193:ALA:HB3	1.97	0.46
1:C:198:ARG:HG2	1:C:242:GLU:HB3	1.97	0.46
1:C:213:PHE:CE1	1:C:214:GLU:HG2	2.51	0.46
1:C:314:VAL:O	1:C:318:VAL:HG23	2.14	0.46
1:C:405:LYS:HE2	1:C:407:ASP:O	2.16	0.46
1:C:533:SEP:HA	1:C:693:HIS:ND1	2.29	0.46
1:C:802:SER:O	1:C:803:ASP:HB2	2.14	0.46
1:C:833:THR:O	1:C:836:SER:OG	2.32	0.46
1:D:145:ARG:O	1:D:146:HIS:HB2	2.15	0.46
1:D:198:ARG:HG2	1:D:242:GLU:HB3	1.97	0.46
1:D:506:MET:HG3	1:D:571:LEU:HD22	1.97	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:166:LEU:HD13	1:E:288:ARG:HA	1.96	0.46
1:E:245:PHE:HE2	1:E:273:ASN:HB2	1.80	0.46
1:E:389:SER:HA	1:E:392:TYR:CD2	2.51	0.46
1:E:613:LYS:NZ	1:E:663:GLU:HB2	2.30	0.46
1:E:1009:ASP:HB2	1:E:1013:SER:HB3	1.98	0.46
1:F:868:LEU:HD21	1:F:886:LEU:CD2	2.45	0.46
1:F:970:PHE:CD1	1:F:970:PHE:C	2.88	0.46
1:G:158:LEU:HB3	1:G:193:ALA:HB3	1.97	0.46
1:G:405:LYS:HE2	1:G:407:ASP:O	2.16	0.46
1:G:506:MET:HG3	1:G:571:LEU:HD22	1.97	0.46
1:I:405:LYS:HE2	1:I:407:ASP:O	2.15	0.46
1:I:868:LEU:HD21	1:I:886:LEU:CD2	2.45	0.46
1:I:888:TRP:HA	1:I:892:VAL:HG21	1.96	0.46
1:I:934:ASN:HA	1:I:935:PRO:HD3	1.78	0.46
1:I:1009:ASP:HB2	1:I:1013:SER:HB3	1.98	0.46
1:K:613:LYS:NZ	1:K:663:GLU:HB2	2.30	0.46
1:K:888:TRP:HA	1:K:892:VAL:HG21	1.96	0.46
1:K:941:GLN:HG3	1:K:969:PHE:HB3	1.97	0.46
1:K:1002:LEU:N	1:K:1024:ALA:O	2.49	0.46
1:A:145:ARG:O	1:A:146:HIS:HB2	2.15	0.46
1:B:389:SER:HA	1:B:392:TYR:CD2	2.51	0.46
1:D:596:PHE:O	1:D:599:PHE:HB2	2.15	0.46
1:D:706:SER:HA	1:D:709:ARG:NE	2.30	0.46
1:D:802:SER:O	1:D:803:ASP:HB2	2.14	0.46
1:D:941:GLN:HG3	1:D:969:PHE:HB3	1.97	0.46
1:E:198:ARG:HG2	1:E:242:GLU:HB3	1.97	0.46
1:E:213:PHE:CE1	1:E:214:GLU:HG2	2.51	0.46
1:E:914:LEU:H	1:E:944:LEU:HD23	1.80	0.46
1:F:523:VAL:CG2	1:F:545:VAL:HB	2.46	0.46
1:F:1009:ASP:HB2	1:F:1013:SER:HB3	1.98	0.46
1:G:857:GLU:C	1:G:888:TRP:HE1	2.17	0.46
1:H:405:LYS:HE2	1:H:407:ASP:O	2.16	0.46
1:I:166:LEU:HD13	1:I:288:ARG:HA	1.97	0.46
1:J:405:LYS:HE2	1:J:407:ASP:O	2.16	0.46
1:A:245:PHE:HE2	1:A:273:ASN:HB2	1.80	0.46
1:A:1009:ASP:HB2	1:A:1013:SER:HB3	1.98	0.46
1:B:596:PHE:O	1:B:599:PHE:HB2	2.15	0.46
1:B:614:LEU:HD22	1:B:616:PHE:CZ	2.51	0.46
1:B:1009:ASP:HB2	1:B:1013:SER:HB3	1.98	0.46
1:C:245:PHE:HE2	1:C:273:ASN:HB2	1.80	0.46
1:D:389:SER:HA	1:D:392:TYR:CD2	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:662:LEU:HB2	1:D:687:ALA:CB	2.45	0.46
1:D:743:ILE:O	1:D:773:ILE:HD11	2.15	0.46
1:E:122:GLU:HA	1:E:123:ASP:CB	2.46	0.46
1:E:405:LYS:HE2	1:E:407:ASP:O	2.16	0.46
1:E:614:LEU:HD22	1:E:616:PHE:CZ	2.51	0.46
1:E:808:MET:O	1:E:812:VAL:HG23	2.15	0.46
1:F:198:ARG:HG2	1:F:242:GLU:HB3	1.97	0.46
1:F:506:MET:HG3	1:F:571:LEU:HD22	1.97	0.46
1:F:808:MET:O	1:F:812:VAL:HG23	2.15	0.46
1:G:245:PHE:HE2	1:G:273:ASN:HB2	1.80	0.46
1:G:743:ILE:O	1:G:773:ILE:HD11	2.15	0.46
1:G:808:MET:O	1:G:812:VAL:HG23	2.15	0.46
1:G:833:THR:O	1:G:836:SER:OG	2.32	0.46
1:G:1002:LEU:N	1:G:1024:ALA:O	2.48	0.46
1:H:245:PHE:HE2	1:H:273:ASN:HB2	1.80	0.46
1:H:389:SER:HA	1:H:392:TYR:CD2	2.51	0.46
1:H:706:SER:HA	1:H:709:ARG:NE	2.30	0.46
1:H:970:PHE:CD1	1:H:970:PHE:C	2.88	0.46
1:I:145:ARG:O	1:I:146:HIS:HB2	2.15	0.46
1:I:198:ARG:HG2	1:I:242:GLU:HB3	1.97	0.46
1:I:808:MET:O	1:I:812:VAL:HG23	2.15	0.46
1:I:1002:LEU:N	1:I:1024:ALA:O	2.49	0.46
1:K:679:TYR:HA	1:K:682:LYS:HG3	1.95	0.46
1:K:743:ILE:O	1:K:773:ILE:HD11	2.15	0.46
1:K:857:GLU:C	1:K:888:TRP:HE1	2.17	0.46
1:A:743:ILE:O	1:A:773:ILE:HD11	2.15	0.46
1:A:941:GLN:HG3	1:A:969:PHE:HB3	1.97	0.46
1:B:921:ASP:OD1	1:B:950:SER:OG	2.25	0.46
1:C:706:SER:HA	1:C:709:ARG:NE	2.30	0.46
1:C:1009:ASP:HB2	1:C:1013:SER:HB3	1.98	0.46
1:D:122:GLU:HA	1:D:123:ASP:CB	2.46	0.46
1:D:615:ASP:HB2	1:D:665:THR:OG1	2.16	0.46
1:D:1009:ASP:HB2	1:D:1013:SER:HB3	1.98	0.46
1:F:122:GLU:HA	1:F:123:ASP:CB	2.46	0.46
1:F:662:LEU:HB2	1:F:687:ALA:CB	2.45	0.46
1:F:812:VAL:HA	1:F:815:LEU:HD12	1.97	0.46
1:G:198:ARG:HG2	1:G:242:GLU:HB3	1.98	0.46
1:G:515:HIS:O	1:G:550:ASN:HB2	2.16	0.46
1:H:179:LEU:HB2	1:H:246:LEU:HD22	1.97	0.46
1:H:198:ARG:HG2	1:H:242:GLU:HB3	1.97	0.46
1:H:203:ILE:O	1:H:248:ASP:N	2.40	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:523:VAL:CG2	1:H:545:VAL:HB	2.46	0.46
1:H:1002:LEU:N	1:H:1024:ALA:O	2.49	0.46
1:I:158:LEU:HB3	1:I:193:ALA:HB3	1.97	0.46
1:I:614:LEU:HD22	1:I:616:PHE:CZ	2.51	0.46
1:I:706:SER:HA	1:I:709:ARG:NE	2.30	0.46
1:I:914:LEU:H	1:I:944:LEU:HD23	1.80	0.46
1:J:198:ARG:HG2	1:J:242:GLU:HB3	1.98	0.46
1:J:356:ALA:HB3	1:J:358:THR:O	2.16	0.46
1:J:812:VAL:HA	1:J:815:LEU:HD12	1.97	0.46
1:K:798:LEU:HB2	1:K:808:MET:HE3	1.98	0.46
1:A:410:PRO:HD3	1:A:437:PRO:HD2	1.98	0.46
1:B:356:ALA:HB3	1:B:358:THR:O	2.16	0.46
1:B:868:LEU:HD21	1:B:886:LEU:CD2	2.45	0.46
1:B:888:TRP:HA	1:B:892:VAL:HG21	1.96	0.46
1:C:329:ARG:HA	1:C:329:ARG:HD3	1.77	0.46
1:C:941:GLN:HG3	1:C:969:PHE:HB3	1.97	0.46
1:D:614:LEU:HD22	1:D:616:PHE:CZ	2.51	0.46
1:E:915:LYS:HA	1:E:945:ALA:H	1.79	0.46
1:F:245:PHE:HE2	1:F:273:ASN:HB2	1.80	0.46
1:F:388:ARG:O	1:F:392:TYR:N	2.45	0.46
1:G:213:PHE:CE1	1:G:214:GLU:HG2	2.51	0.46
1:G:596:PHE:O	1:G:599:PHE:HB2	2.15	0.46
1:G:812:VAL:HA	1:G:815:LEU:HD12	1.97	0.46
1:G:888:TRP:HA	1:G:892:VAL:HG21	1.96	0.46
1:J:213:PHE:CE1	1:J:214:GLU:HG2	2.51	0.46
1:J:389:SER:HA	1:J:392:TYR:CD2	2.51	0.46
1:J:613:LYS:NZ	1:J:663:GLU:HB2	2.30	0.46
1:J:892:VAL:HG11	1:J:917:TRP:HA	1.98	0.46
1:J:970:PHE:CD1	1:J:970:PHE:C	2.88	0.46
1:K:245:PHE:HE2	1:K:273:ASN:HB2	1.80	0.46
1:K:405:LYS:HE2	1:K:407:ASP:O	2.16	0.46
1:K:410:PRO:HD3	1:K:437:PRO:HD2	1.98	0.46
1:K:523:VAL:CG2	1:K:545:VAL:HB	2.46	0.46
1:K:615:ASP:HB2	1:K:665:THR:OG1	2.16	0.46
1:K:1009:ASP:HB2	1:K:1013:SER:HB3	1.98	0.46
1:A:868:LEU:HD21	1:A:886:LEU:CD2	2.45	0.46
1:B:145:ARG:O	1:B:146:HIS:HB2	2.15	0.46
1:B:523:VAL:CG2	1:B:545:VAL:HB	2.46	0.46
1:B:743:ILE:O	1:B:773:ILE:HD11	2.15	0.46
1:B:1010:TYR:C	1:B:1012:ILE:H	2.17	0.46
1:C:118:TYR:HA	1:C:119:PRO:HD2	1.76	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:389:SER:HA	1:C:392:TYR:CD2	2.51	0.46
1:C:476:LYS:HB3	1:C:487:TYR:HE2	1.81	0.46
1:C:798:LEU:HB2	1:C:808:MET:HE3	1.97	0.46
1:D:410:PRO:HD3	1:D:437:PRO:HD2	1.98	0.46
1:D:808:MET:O	1:D:812:VAL:HG23	2.15	0.46
1:F:985:ARG:NE	1:G:685:SER:OG	2.48	0.46
1:F:1002:LEU:N	1:F:1024:ALA:O	2.49	0.46
1:G:614:LEU:HD22	1:G:616:PHE:CZ	2.51	0.46
1:G:1009:ASP:HB2	1:G:1013:SER:HB3	1.98	0.46
1:H:1009:ASP:HB2	1:H:1013:SER:HB3	1.98	0.46
1:I:245:PHE:HE2	1:I:273:ASN:HB2	1.80	0.46
1:I:812:VAL:HA	1:I:815:LEU:HD12	1.97	0.46
1:J:145:ARG:O	1:J:146:HIS:HB2	2.15	0.46
1:J:743:ILE:O	1:J:773:ILE:HD11	2.15	0.46
1:K:389:SER:HA	1:K:392:TYR:CD2	2.51	0.46
1:A:213:PHE:CE1	1:A:214:GLU:HG2	2.51	0.46
1:A:405:LYS:HE2	1:A:407:ASP:O	2.16	0.46
1:A:476:LYS:HB3	1:A:487:TYR:HE2	1.81	0.46
1:A:515:HIS:O	1:A:550:ASN:HB2	2.16	0.46
1:A:1002:LEU:N	1:A:1024:ALA:O	2.48	0.46
1:B:410:PRO:HD3	1:B:437:PRO:HD2	1.98	0.46
1:B:838:LYS:O	1:B:841:ALA:HB3	2.16	0.46
1:C:523:VAL:CG2	1:C:545:VAL:HB	2.46	0.46
1:C:615:ASP:HB2	1:C:665:THR:OG1	2.16	0.46
1:C:808:MET:O	1:C:812:VAL:HG23	2.15	0.46
1:E:532:GLU:OE1	1:E:744:HIS:ND1	2.41	0.46
1:E:813:LYS:HD2	1:E:813:LYS:HA	1.78	0.46
1:F:213:PHE:CE1	1:F:214:GLU:HG2	2.51	0.46
1:G:122:GLU:HA	1:G:123:ASP:CB	2.46	0.46
1:G:363:PHE:CD1	1:G:446:PHE:CE1	3.04	0.46
1:G:389:SER:HA	1:G:392:TYR:CD2	2.51	0.46
1:H:356:ALA:HB3	1:H:358:THR:O	2.16	0.46
1:H:812:VAL:HA	1:H:815:LEU:HD12	1.97	0.46
1:H:941:GLN:HG3	1:H:969:PHE:HB3	1.97	0.46
1:I:213:PHE:CE1	1:I:214:GLU:HG2	2.51	0.46
1:I:813:LYS:HD2	1:I:813:LYS:HA	1.78	0.46
1:J:523:VAL:CG2	1:J:545:VAL:HB	2.46	0.46
1:J:615:ASP:HB2	1:J:665:THR:OG1	2.16	0.46
1:K:119:PRO:HA	1:J:289:HIS:HE1	1.76	0.46
1:K:356:ALA:HB3	1:K:358:THR:O	2.16	0.46
1:K:685:SER:CB	1:J:985:ARG:HE	2.28	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:LYS:O	1:A:841:ALA:HB3	2.16	0.46
1:B:179:LEU:HB2	1:B:246:LEU:HD22	1.97	0.46
1:B:245:PHE:HE2	1:B:273:ASN:HB2	1.80	0.46
1:B:914:LEU:H	1:B:944:LEU:HD23	1.80	0.46
1:C:179:LEU:HB2	1:C:246:LEU:HD22	1.98	0.46
1:C:614:LEU:HD22	1:C:616:PHE:CZ	2.51	0.46
1:D:245:PHE:HE2	1:D:273:ASN:HB2	1.80	0.46
1:D:523:VAL:CG2	1:D:545:VAL:HB	2.46	0.46
1:E:662:LEU:HD23	1:E:662:LEU:HA	1.82	0.46
1:G:459:LEU:HD23	1:G:467:VAL:HG13	1.98	0.46
1:H:213:PHE:CE1	1:H:214:GLU:HG2	2.51	0.46
1:H:363:PHE:CD1	1:H:446:PHE:CE1	3.04	0.46
1:H:751:LEU:HB3	1:H:752:PRO:HD2	1.98	0.46
1:H:759:LEU:HD12	1:H:786:GLY:HA3	1.98	0.46
1:H:892:VAL:HG11	1:H:917:TRP:HA	1.98	0.46
1:I:363:PHE:CD1	1:I:446:PHE:CE1	3.04	0.46
1:I:515:HIS:O	1:I:550:ASN:HB2	2.16	0.46
1:I:523:VAL:CG2	1:I:545:VAL:HB	2.46	0.46
1:J:179:LEU:HB2	1:J:246:LEU:HD22	1.97	0.46
1:J:410:PRO:HD3	1:J:437:PRO:HD2	1.98	0.46
1:J:515:HIS:O	1:J:550:ASN:HB2	2.16	0.46
1:J:614:LEU:HD22	1:J:616:PHE:CZ	2.51	0.46
1:K:515:HIS:O	1:K:550:ASN:HB2	2.16	0.46
1:A:914:LEU:H	1:A:944:LEU:HD23	1.80	0.46
1:B:421:LEU:O	1:B:425:GLY:N	2.42	0.46
1:C:410:PRO:HD3	1:C:437:PRO:HD2	1.98	0.46
1:C:515:HIS:O	1:C:550:ASN:HB2	2.16	0.46
1:D:1002:LEU:N	1:D:1024:ALA:O	2.48	0.46
1:E:410:PRO:HD3	1:E:437:PRO:HD2	1.98	0.46
1:E:812:VAL:HA	1:E:815:LEU:HD12	1.97	0.46
1:E:892:VAL:HG11	1:E:917:TRP:HA	1.98	0.46
1:E:1002:LEU:N	1:E:1024:ALA:O	2.48	0.46
1:F:941:GLN:HG3	1:F:969:PHE:HB3	1.97	0.46
1:G:759:LEU:HD12	1:G:786:GLY:HA3	1.98	0.46
1:G:941:GLN:HG3	1:G:969:PHE:HB3	1.97	0.46
1:I:759:LEU:HD12	1:I:786:GLY:HA3	1.98	0.46
1:J:108:LEU:HD23	1:J:108:LEU:HA	1.84	0.46
1:J:363:PHE:CD1	1:J:446:PHE:CE1	3.04	0.46
1:K:1011:ASP:OD2	1:A:679:TYR:CE1	2.68	0.45
1:A:356:ALA:HB3	1:A:358:THR:O	2.16	0.45
1:A:614:LEU:HD22	1:A:616:PHE:CZ	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:947:HIS:NE2	1:A:949:VAL:HB	2.32	0.45
1:B:1002:LEU:N	1:B:1024:ALA:O	2.49	0.45
1:C:838:LYS:O	1:C:841:ALA:HB3	2.16	0.45
1:E:388:ARG:O	1:E:392:TYR:N	2.45	0.45
1:F:363:PHE:CD1	1:F:446:PHE:CE1	3.04	0.45
1:F:751:LEU:HB3	1:F:752:PRO:HD2	1.98	0.45
1:G:388:ARG:O	1:G:392:TYR:N	2.45	0.45
1:G:523:VAL:CG2	1:G:545:VAL:HB	2.46	0.45
1:G:770:LEU:HD23	1:G:770:LEU:HA	1.74	0.45
1:G:892:VAL:HG11	1:G:917:TRP:HA	1.98	0.45
1:H:459:LEU:HD23	1:H:467:VAL:HG13	1.98	0.45
1:H:515:HIS:O	1:H:550:ASN:HB2	2.16	0.45
1:I:537:LEU:HD13	1:I:742:SER:HB2	1.98	0.45
1:I:613:LYS:NZ	1:I:663:GLU:HB2	2.30	0.45
1:J:751:LEU:HB3	1:J:752:PRO:HD2	1.98	0.45
1:K:363:PHE:CD1	1:K:446:PHE:CE1	3.04	0.45
1:K:476:LYS:HB3	1:K:487:TYR:HE2	1.81	0.45
1:K:812:VAL:HA	1:K:815:LEU:HD12	1.97	0.45
1:A:892:VAL:HG11	1:A:917:TRP:HA	1.98	0.45
1:B:455:LEU:HD23	1:B:455:LEU:HA	1.69	0.45
1:B:833:THR:O	1:B:836:SER:OG	2.32	0.45
1:C:320:ARG:NH1	1:C:352:GLN:O	2.41	0.45
1:D:179:LEU:HB2	1:D:246:LEU:HD22	1.98	0.45
1:D:213:PHE:CE1	1:D:214:GLU:HG2	2.51	0.45
1:E:241:LYS:HG2	1:E:241:LYS:O	2.16	0.45
1:E:751:LEU:HB3	1:E:752:PRO:HD2	1.98	0.45
1:E:941:GLN:HG3	1:E:969:PHE:HB3	1.97	0.45
1:F:329:ARG:HA	1:F:329:ARG:HD3	1.77	0.45
1:F:410:PRO:HD3	1:F:437:PRO:HD2	1.98	0.45
1:F:459:LEU:HD23	1:F:467:VAL:HG13	1.98	0.45
1:F:892:VAL:HG11	1:F:917:TRP:HA	1.98	0.45
1:G:179:LEU:HB2	1:G:246:LEU:HD22	1.97	0.45
1:G:283:CYS:O	1:G:286:HIS:ND1	2.47	0.45
1:G:524:THR:CB	1:G:530:ARG:HH12	2.25	0.45
1:G:615:ASP:HB2	1:G:665:THR:OG1	2.16	0.45
1:H:537:LEU:HD13	1:H:742:SER:HB2	1.98	0.45
1:I:389:SER:HA	1:I:392:TYR:CD2	2.51	0.45
1:K:759:LEU:HD12	1:K:786:GLY:HA3	1.98	0.45
1:A:122:GLU:HA	1:A:123:ASP:CB	2.46	0.45
1:A:459:LEU:HD23	1:A:467:VAL:HG13	1.98	0.45
1:C:1002:LEU:N	1:C:1024:ALA:O	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:515:HIS:O	1:D:550:ASN:HB2	2.16	0.45
1:E:615:ASP:HB2	1:E:665:THR:OG1	2.16	0.45
1:F:179:LEU:HB2	1:F:246:LEU:HD22	1.97	0.45
1:F:421:LEU:O	1:F:425:GLY:N	2.42	0.45
1:F:614:LEU:HD22	1:F:616:PHE:CZ	2.51	0.45
1:F:759:LEU:HD12	1:F:786:GLY:HA3	1.98	0.45
1:G:537:LEU:HD13	1:G:742:SER:HB2	1.99	0.45
1:H:122:GLU:HA	1:H:123:ASP:CB	2.46	0.45
1:H:410:PRO:HD3	1:H:437:PRO:HD2	1.98	0.45
1:I:410:PRO:HD3	1:I:437:PRO:HD2	1.98	0.45
1:I:770:LEU:HD23	1:I:770:LEU:HA	1.74	0.45
1:I:941:GLN:HG3	1:I:969:PHE:HB3	1.97	0.45
1:I:947:HIS:NE2	1:I:949:VAL:HB	2.32	0.45
1:K:283:CYS:O	1:K:286:HIS:ND1	2.47	0.45
1:K:459:LEU:HD23	1:K:467:VAL:HG13	1.98	0.45
1:K:947:HIS:NE2	1:K:949:VAL:HB	2.32	0.45
1:B:985:ARG:NE	1:C:685:SER:OG	2.50	0.45
1:C:798:LEU:HB2	1:C:808:MET:CE	2.47	0.45
1:C:892:VAL:HG11	1:C:917:TRP:HA	1.98	0.45
1:D:476:LYS:HB3	1:D:487:TYR:HE2	1.81	0.45
1:D:838:LYS:O	1:D:841:ALA:HB3	2.16	0.45
1:D:985:ARG:NE	1:E:685:SER:OG	2.49	0.45
1:E:476:LYS:HB3	1:E:487:TYR:HE2	1.81	0.45
1:G:356:ALA:HB3	1:G:358:THR:O	2.16	0.45
1:G:985:ARG:NE	1:H:685:SER:OG	2.49	0.45
1:H:158:LEU:HB3	1:H:193:ALA:HB3	1.97	0.45
1:H:614:LEU:HD22	1:H:616:PHE:CZ	2.51	0.45
1:I:122:GLU:HA	1:I:123:ASP:CB	2.46	0.45
1:I:459:LEU:HD23	1:I:467:VAL:HG13	1.98	0.45
1:I:615:ASP:HB2	1:I:665:THR:OG1	2.16	0.45
1:J:122:GLU:HA	1:J:123:ASP:CB	2.46	0.45
1:J:537:LEU:HD13	1:J:742:SER:HB2	1.99	0.45
1:J:759:LEU:HD12	1:J:786:GLY:HA3	1.98	0.45
1:J:813:LYS:HD2	1:J:813:LYS:HA	1.78	0.45
1:J:947:HIS:NE2	1:J:949:VAL:HB	2.31	0.45
1:K:122:GLU:HA	1:K:123:ASP:CB	2.46	0.45
1:K:396:LEU:HD23	1:K:396:LEU:HA	1.81	0.45
1:A:179:LEU:HB2	1:A:246:LEU:HD22	1.97	0.45
1:A:241:LYS:O	1:A:241:LYS:HG2	2.16	0.45
1:A:363:PHE:CD1	1:A:446:PHE:CE1	3.04	0.45
1:A:367:TYR:O	1:A:370:LEU:HB2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:389:SER:HA	1:A:392:TYR:CD2	2.51	0.45
1:A:615:ASP:HB2	1:A:665:THR:OG1	2.16	0.45
1:A:751:LEU:HB3	1:A:752:PRO:HD2	1.98	0.45
1:B:108:LEU:HD23	1:B:108:LEU:HA	1.84	0.45
1:B:770:LEU:HD23	1:B:770:LEU:HA	1.74	0.45
1:C:751:LEU:HB3	1:C:752:PRO:HD2	1.98	0.45
1:E:523:VAL:CG2	1:E:545:VAL:HB	2.46	0.45
1:E:947:HIS:NE2	1:E:949:VAL:HB	2.31	0.45
1:E:985:ARG:O	1:E:988:SER:OG	2.19	0.45
1:F:126:ILE:HG23	1:F:342:VAL:HG21	1.99	0.45
1:F:389:SER:HA	1:F:392:TYR:CD2	2.51	0.45
1:F:405:LYS:HE2	1:F:407:ASP:O	2.16	0.45
1:F:770:LEU:HB2	1:F:798:LEU:HD23	1.99	0.45
1:G:241:LYS:HG2	1:G:241:LYS:O	2.16	0.45
1:G:410:PRO:HD3	1:G:437:PRO:HD2	1.98	0.45
1:H:833:THR:O	1:H:836:SER:OG	2.32	0.45
1:H:947:HIS:NE2	1:H:949:VAL:HB	2.32	0.45
1:I:126:ILE:HG23	1:I:342:VAL:HG21	1.99	0.45
1:K:213:PHE:CE1	1:K:214:GLU:HG2	2.51	0.45
1:K:614:LEU:HD22	1:K:616:PHE:CZ	2.51	0.45
1:K:915:LYS:HB2	1:K:915:LYS:HE3	1.70	0.45
1:A:289:HIS:HE1	1:B:119:PRO:HA	1.81	0.45
1:B:122:GLU:HA	1:B:123:ASP:CB	2.46	0.45
1:B:237:LEU:O	1:B:240:HIS:CE1	2.70	0.45
1:B:615:ASP:HB2	1:B:665:THR:OG1	2.16	0.45
1:C:356:ALA:HB3	1:C:358:THR:O	2.16	0.45
1:C:613:LYS:HZ2	1:C:663:GLU:HB2	1.82	0.45
1:C:985:ARG:O	1:C:988:SER:OG	2.19	0.45
1:D:367:TYR:O	1:D:370:LEU:HB2	2.17	0.45
1:E:363:PHE:CD1	1:E:446:PHE:CE1	3.04	0.45
1:E:367:TYR:O	1:E:370:LEU:HB2	2.17	0.45
1:E:459:LEU:HD23	1:E:467:VAL:HG13	1.98	0.45
1:F:237:LEU:O	1:F:240:HIS:CE1	2.70	0.45
1:F:515:HIS:O	1:F:550:ASN:HB2	2.16	0.45
1:F:537:LEU:HD13	1:F:742:SER:HB2	1.98	0.45
1:G:126:ILE:HG23	1:G:342:VAL:HG21	1.99	0.45
1:G:838:LYS:O	1:G:841:ALA:HB3	2.16	0.45
1:H:838:LYS:O	1:H:841:ALA:HB3	2.16	0.45
1:H:970:PHE:CE1	1:H:1000:VAL:HG13	2.52	0.45
1:I:476:LYS:HB3	1:I:487:TYR:HE2	1.81	0.45
1:J:245:PHE:HE2	1:J:273:ASN:HB2	1.80	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:455:LEU:HA	1:J:455:LEU:HD23	1.69	0.45
1:K:241:LYS:O	1:K:241:LYS:HG2	2.16	0.45
1:A:523:VAL:CG2	1:A:545:VAL:HB	2.46	0.45
1:B:367:TYR:O	1:B:370:LEU:HB2	2.17	0.45
1:B:515:HIS:O	1:B:550:ASN:HB2	2.16	0.45
1:C:289:HIS:HE1	1:D:119:PRO:HA	1.81	0.45
1:D:126:ILE:HG23	1:D:342:VAL:HG21	1.99	0.45
1:D:751:LEU:HB3	1:D:752:PRO:HD2	1.98	0.45
1:F:367:TYR:O	1:F:370:LEU:HB2	2.17	0.45
1:H:615:ASP:HB2	1:H:665:THR:OG1	2.16	0.45
1:H:985:ARG:NE	1:I:685:SER:OG	2.50	0.45
1:I:798:LEU:HB2	1:I:808:MET:CE	2.47	0.45
1:J:476:LYS:HB3	1:J:487:TYR:HE2	1.81	0.45
1:J:833:THR:O	1:J:836:SER:OG	2.32	0.45
1:K:367:TYR:O	1:K:370:LEU:HB2	2.17	0.45
1:K:537:LEU:HD13	1:K:742:SER:HB2	1.99	0.45
1:B:213:PHE:CE1	1:B:214:GLU:HG2	2.51	0.45
1:C:240:HIS:O	1:C:241:LYS:HB2	2.17	0.45
1:C:367:TYR:O	1:C:370:LEU:HB2	2.17	0.45
1:C:828:VAL:HG22	1:C:856:SER:O	2.17	0.45
1:C:899:LEU:O	1:C:902:GLN:HB2	2.17	0.45
1:D:237:LEU:O	1:D:240:HIS:CE1	2.70	0.45
1:D:240:HIS:O	1:D:241:LYS:HB2	2.17	0.45
1:D:241:LYS:O	1:D:241:LYS:HG2	2.16	0.45
1:D:828:VAL:HG22	1:D:856:SER:O	2.17	0.45
1:E:356:ALA:HB3	1:E:358:THR:O	2.16	0.45
1:E:657:GLN:HA	1:E:658:GLU:HA	1.75	0.45
1:E:759:LEU:HD12	1:E:786:GLY:HA3	1.98	0.45
1:E:770:LEU:HB2	1:E:798:LEU:HD23	1.99	0.45
1:F:476:LYS:HB3	1:F:487:TYR:HE2	1.81	0.45
1:G:751:LEU:HB3	1:G:752:PRO:HD2	1.98	0.45
1:G:798:LEU:HB2	1:G:808:MET:CE	2.47	0.45
1:H:828:VAL:HG22	1:H:856:SER:O	2.17	0.45
1:I:892:VAL:HG11	1:I:917:TRP:HA	1.98	0.45
1:I:970:PHE:CE1	1:I:1000:VAL:HG13	2.52	0.45
1:J:241:LYS:HG2	1:J:241:LYS:O	2.16	0.45
1:J:838:LYS:O	1:J:841:ALA:HB3	2.16	0.45
1:J:941:GLN:HG3	1:J:969:PHE:HB3	1.97	0.45
1:K:838:LYS:O	1:K:841:ALA:HB3	2.16	0.45
1:A:309:ILE:HG12	1:A:341:VAL:HG13	1.99	0.45
1:A:759:LEU:HD12	1:A:786:GLY:HA3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:896:LEU:HD12	1:A:899:LEU:HD23	1.99	0.45
1:A:997:LEU:HD23	1:A:1019:PHE:CD2	2.52	0.45
1:B:240:HIS:O	1:B:241:LYS:HB2	2.17	0.45
1:B:241:LYS:HG2	1:B:241:LYS:O	2.16	0.45
1:B:813:LYS:HD2	1:B:813:LYS:HA	1.78	0.45
1:D:356:ALA:HB3	1:D:358:THR:O	2.16	0.45
1:D:363:PHE:CD1	1:D:446:PHE:CE1	3.04	0.45
1:D:455:LEU:HA	1:D:455:LEU:HD23	1.69	0.45
1:E:179:LEU:HB2	1:E:246:LEU:HD22	1.97	0.45
1:E:237:LEU:O	1:E:240:HIS:CE1	2.70	0.45
1:E:240:HIS:O	1:E:241:LYS:HB2	2.17	0.45
1:E:798:LEU:HB2	1:E:808:MET:CE	2.47	0.45
1:E:828:VAL:HG22	1:E:856:SER:O	2.17	0.45
1:G:108:LEU:HD23	1:G:108:LEU:HA	1.84	0.45
1:G:237:LEU:O	1:G:240:HIS:CE1	2.70	0.45
1:G:770:LEU:HB2	1:G:798:LEU:HD23	1.99	0.45
1:G:919:LEU:HD22	1:G:923:GLU:HG2	1.99	0.45
1:J:118:TYR:HA	1:J:119:PRO:HD2	1.77	0.45
1:J:126:ILE:HG23	1:J:342:VAL:HG21	1.99	0.45
1:J:934:ASN:HA	1:J:935:PRO:HD3	1.78	0.45
1:K:126:ILE:HG23	1:K:342:VAL:HG21	1.99	0.45
1:K:179:LEU:HB2	1:K:246:LEU:HD22	1.98	0.45
1:K:433:GLN:O	1:A:349:MET:HG3	2.17	0.45
1:K:798:LEU:HB2	1:K:808:MET:CE	2.47	0.45
1:K:892:VAL:O	1:K:895:SER:OG	2.15	0.45
1:K:896:LEU:HD12	1:K:899:LEU:HD23	1.99	0.45
1:K:919:LEU:HD22	1:K:923:GLU:HG2	1.99	0.45
1:A:240:HIS:O	1:A:241:LYS:HB2	2.17	0.45
1:A:919:LEU:HD22	1:A:923:GLU:HG2	1.99	0.45
1:B:363:PHE:CD1	1:B:446:PHE:CE1	3.04	0.45
1:B:896:LEU:HD12	1:B:899:LEU:HD23	1.99	0.45
1:C:237:LEU:O	1:C:240:HIS:CE1	2.70	0.45
1:C:309:ILE:HG12	1:C:341:VAL:HG13	1.99	0.45
1:C:363:PHE:CD1	1:C:446:PHE:CE1	3.04	0.45
1:C:997:LEU:HD23	1:C:1019:PHE:CD2	2.52	0.45
1:E:289:HIS:HE1	1:F:119:PRO:HA	1.82	0.45
1:E:515:HIS:O	1:E:550:ASN:HB2	2.16	0.45
1:F:613:LYS:HZ2	1:F:663:GLU:HB2	1.82	0.45
1:F:615:ASP:HB2	1:F:665:THR:OG1	2.16	0.45
1:F:838:LYS:O	1:F:841:ALA:HB3	2.16	0.45
1:G:118:TYR:HA	1:G:119:PRO:HD2	1.77	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:367:TYR:O	1:G:370:LEU:HB2	2.17	0.45
1:H:126:ILE:HG23	1:H:342:VAL:HG21	1.99	0.45
1:H:455:LEU:HD23	1:H:458:LEU:HD12	1.99	0.45
1:I:179:LEU:HB2	1:I:246:LEU:HD22	1.97	0.45
1:I:237:LEU:O	1:I:240:HIS:CE1	2.70	0.45
1:I:356:ALA:HB3	1:I:358:THR:O	2.16	0.45
1:I:896:LEU:HD12	1:I:899:LEU:HD23	1.99	0.45
1:J:316:ASP:O	1:J:320:ARG:HG3	2.17	0.45
1:J:970:PHE:CE1	1:J:1000:VAL:HG13	2.52	0.45
1:A:166:LEU:HG	1:A:291:GLY:HA3	2.00	0.44
1:A:798:LEU:HB2	1:A:808:MET:CE	2.47	0.44
1:A:985:ARG:O	1:A:988:SER:OG	2.19	0.44
1:B:126:ILE:HG23	1:B:342:VAL:HG21	1.99	0.44
1:B:947:HIS:NE2	1:B:949:VAL:HB	2.32	0.44
1:D:316:ASP:O	1:D:320:ARG:HG3	2.17	0.44
1:D:892:VAL:HG11	1:D:917:TRP:HA	1.98	0.44
1:E:126:ILE:HG23	1:E:342:VAL:HG21	1.99	0.44
1:E:309:ILE:HG12	1:E:341:VAL:HG13	1.99	0.44
1:E:537:LEU:HD13	1:E:742:SER:HB2	1.99	0.44
1:E:838:LYS:O	1:E:841:ALA:HB3	2.16	0.44
1:F:241:LYS:O	1:F:241:LYS:HG2	2.16	0.44
1:F:899:LEU:O	1:F:902:GLN:HB2	2.17	0.44
1:G:455:LEU:HD23	1:G:458:LEU:HD12	1.99	0.44
1:G:476:LYS:HB3	1:G:487:TYR:HE2	1.81	0.44
1:G:657:GLN:HA	1:G:658:GLU:HA	1.76	0.44
1:H:241:LYS:HG2	1:H:241:LYS:O	2.16	0.44
1:H:367:TYR:O	1:H:370:LEU:HB2	2.17	0.44
1:I:316:ASP:O	1:I:320:ARG:HG3	2.17	0.44
1:I:899:LEU:O	1:I:902:GLN:HB2	2.17	0.44
1:I:919:LEU:HD22	1:I:923:GLU:HG2	2.00	0.44
1:J:366:PHE:CD2	1:J:446:PHE:CE2	3.06	0.44
1:J:459:LEU:HD23	1:J:467:VAL:HG13	1.98	0.44
1:J:896:LEU:HD12	1:J:899:LEU:HD23	1.99	0.44
1:J:899:LEU:O	1:J:902:GLN:HB2	2.17	0.44
1:J:919:LEU:HD22	1:J:923:GLU:HG2	1.99	0.44
1:K:166:LEU:HG	1:K:291:GLY:HA3	2.00	0.44
1:K:316:ASP:O	1:K:320:ARG:HG3	2.17	0.44
1:K:892:VAL:HG11	1:K:917:TRP:HA	1.98	0.44
1:K:899:LEU:O	1:K:902:GLN:HB2	2.17	0.44
1:A:316:ASP:O	1:A:320:ARG:HG3	2.17	0.44
1:A:833:THR:O	1:A:836:SER:OG	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:166:LEU:HG	1:B:291:GLY:HA3	2.00	0.44
1:B:316:ASP:O	1:B:320:ARG:HG3	2.17	0.44
1:B:459:LEU:HD23	1:B:467:VAL:HG13	1.98	0.44
1:B:759:LEU:HD12	1:B:786:GLY:HA3	1.98	0.44
1:B:919:LEU:HD22	1:B:923:GLU:HG2	1.99	0.44
1:C:126:ILE:HG23	1:C:342:VAL:HG21	1.99	0.44
1:C:166:LEU:HG	1:C:291:GLY:HA3	2.00	0.44
1:C:241:LYS:O	1:C:241:LYS:HG2	2.16	0.44
1:C:316:ASP:O	1:C:320:ARG:HG3	2.17	0.44
1:D:366:PHE:CD2	1:D:446:PHE:CE2	3.06	0.44
1:D:868:LEU:HD11	1:D:917:TRP:CZ2	2.53	0.44
1:D:899:LEU:O	1:D:902:GLN:HB2	2.17	0.44
1:E:899:LEU:O	1:E:902:GLN:HB2	2.17	0.44
1:F:455:LEU:HD23	1:F:458:LEU:HD12	1.99	0.44
1:F:798:LEU:HB2	1:F:808:MET:CE	2.47	0.44
1:F:828:VAL:HG22	1:F:856:SER:O	2.17	0.44
1:F:947:HIS:NE2	1:F:949:VAL:HB	2.31	0.44
1:G:203:ILE:O	1:G:248:ASP:N	2.40	0.44
1:G:433:GLN:CG	1:H:125:ASP:H	2.18	0.44
1:G:970:PHE:CE1	1:G:1000:VAL:HG13	2.52	0.44
1:H:798:LEU:HB2	1:H:808:MET:CE	2.47	0.44
1:I:455:LEU:HD23	1:I:458:LEU:HD12	1.99	0.44
1:I:997:LEU:HD23	1:I:1019:PHE:CD2	2.52	0.44
1:J:455:LEU:HD23	1:J:458:LEU:HD12	1.99	0.44
1:K:366:PHE:CD2	1:K:446:PHE:CE2	3.06	0.44
1:A:331:LEU:HA	1:A:334:LEU:HG	2.00	0.44
1:A:366:PHE:CD2	1:A:446:PHE:CE2	3.06	0.44
1:B:366:PHE:CD2	1:B:446:PHE:CE2	3.06	0.44
1:B:476:LYS:HB3	1:B:487:TYR:HE2	1.81	0.44
1:B:617:TYR:CD2	1:B:618:GLU:HB2	2.53	0.44
1:B:828:VAL:HG22	1:B:856:SER:O	2.17	0.44
1:C:366:PHE:CD2	1:C:446:PHE:CE2	3.06	0.44
1:C:970:PHE:CE1	1:C:1000:VAL:HG13	2.52	0.44
1:D:166:LEU:HG	1:D:291:GLY:HA3	2.00	0.44
1:D:421:LEU:O	1:D:425:GLY:N	2.42	0.44
1:D:798:LEU:HB2	1:D:808:MET:CE	2.47	0.44
1:D:947:HIS:NE2	1:D:949:VAL:HB	2.32	0.44
1:E:316:ASP:O	1:E:320:ARG:HG3	2.17	0.44
1:E:366:PHE:CD2	1:E:446:PHE:CE2	3.06	0.44
1:F:997:LEU:HD23	1:F:1019:PHE:CD2	2.52	0.44
1:H:164:PRO:HG2	1:H:290:VAL:HG12	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:237:LEU:O	1:H:240:HIS:CE1	2.70	0.44
1:H:532:GLU:OE1	1:H:744:HIS:ND1	2.41	0.44
1:H:896:LEU:HD12	1:H:899:LEU:HD23	1.99	0.44
1:H:919:LEU:HD22	1:H:923:GLU:HG2	1.99	0.44
1:I:164:PRO:HG2	1:I:290:VAL:HG12	2.00	0.44
1:I:366:PHE:CD2	1:I:446:PHE:CE2	3.06	0.44
1:I:537:LEU:HD13	1:I:742:SER:CB	2.48	0.44
1:K:164:PRO:HG2	1:K:290:VAL:HG12	2.00	0.44
1:K:970:PHE:CE1	1:K:1000:VAL:HG13	2.52	0.44
1:A:237:LEU:O	1:A:240:HIS:CE1	2.70	0.44
1:B:868:LEU:HD11	1:B:917:TRP:CZ2	2.53	0.44
1:B:892:VAL:HG11	1:B:917:TRP:HA	1.98	0.44
1:C:122:GLU:HA	1:C:123:ASP:CB	2.46	0.44
1:C:947:HIS:NE2	1:C:949:VAL:HB	2.32	0.44
1:D:388:ARG:O	1:D:392:TYR:N	2.45	0.44
1:D:459:LEU:HD23	1:D:467:VAL:HG13	1.98	0.44
1:D:759:LEU:HD12	1:D:786:GLY:HA3	1.98	0.44
1:E:331:LEU:HA	1:E:334:LEU:HG	2.00	0.44
1:E:537:LEU:HD13	1:E:742:SER:CB	2.48	0.44
1:F:309:ILE:HG12	1:F:341:VAL:HG13	1.99	0.44
1:F:919:LEU:HD22	1:F:923:GLU:HG2	1.99	0.44
1:G:331:LEU:HA	1:G:334:LEU:HG	2.00	0.44
1:G:617:TYR:CD2	1:G:618:GLU:HB2	2.53	0.44
1:G:947:HIS:NE2	1:G:949:VAL:HB	2.32	0.44
1:H:476:LYS:HB3	1:H:487:TYR:HE2	1.81	0.44
1:H:899:LEU:O	1:H:902:GLN:HB2	2.17	0.44
1:I:751:LEU:HB3	1:I:752:PRO:HD2	1.98	0.44
1:J:166:LEU:HG	1:J:291:GLY:HA3	2.00	0.44
1:J:237:LEU:O	1:J:240:HIS:CE1	2.70	0.44
1:J:309:ILE:HG12	1:J:341:VAL:HG13	1.99	0.44
1:J:537:LEU:HD13	1:J:742:SER:CB	2.48	0.44
1:J:616:PHE:CD2	1:J:680:LEU:HD21	2.53	0.44
1:K:751:LEU:HB3	1:K:752:PRO:HD2	1.98	0.44
1:A:126:ILE:HG23	1:A:342:VAL:HG21	1.99	0.44
1:A:537:LEU:HD13	1:A:742:SER:HB2	1.98	0.44
1:A:617:TYR:CD2	1:A:618:GLU:HB2	2.53	0.44
1:B:928:GLY:HA2	1:B:931:LEU:HB2	2.00	0.44
1:C:331:LEU:HA	1:C:334:LEU:HG	2.00	0.44
1:C:616:PHE:CD2	1:C:680:LEU:HD21	2.53	0.44
1:C:896:LEU:HD12	1:C:899:LEU:HD23	1.99	0.44
1:D:617:TYR:CD2	1:D:618:GLU:HB2	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:997:LEU:HD23	1:D:1019:PHE:CD2	2.52	0.44
1:E:166:LEU:HG	1:E:291:GLY:HA3	2.00	0.44
1:E:455:LEU:HD23	1:E:458:LEU:HD12	2.00	0.44
1:F:240:HIS:O	1:F:241:LYS:HB2	2.17	0.44
1:G:164:PRO:HG2	1:G:290:VAL:HG12	2.00	0.44
1:H:455:LEU:HD23	1:H:455:LEU:HA	1.69	0.44
1:I:833:THR:O	1:I:836:SER:OG	2.32	0.44
1:I:838:LYS:O	1:I:841:ALA:HB3	2.16	0.44
1:I:928:GLY:HA2	1:I:931:LEU:HB2	2.00	0.44
1:J:367:TYR:O	1:J:370:LEU:HB2	2.17	0.44
1:J:798:LEU:HB2	1:J:808:MET:CE	2.47	0.44
1:J:868:LEU:HD11	1:J:917:TRP:CZ2	2.53	0.44
1:K:240:HIS:O	1:K:241:LYS:HB2	2.17	0.44
1:K:331:LEU:HA	1:K:334:LEU:HG	2.00	0.44
1:K:537:LEU:HD13	1:K:742:SER:CB	2.48	0.44
1:K:770:LEU:HB2	1:K:798:LEU:HD23	1.99	0.44
1:A:770:LEU:HB2	1:A:798:LEU:HD23	1.99	0.44
1:A:928:GLY:HA2	1:A:931:LEU:HB2	2.00	0.44
1:B:751:LEU:HB3	1:B:752:PRO:HD2	1.98	0.44
1:C:759:LEU:HD12	1:C:786:GLY:HA3	1.98	0.44
1:C:928:GLY:HA2	1:C:931:LEU:HB2	2.00	0.44
1:D:331:LEU:HA	1:D:334:LEU:HG	2.00	0.44
1:D:537:LEU:HD13	1:D:742:SER:HB2	1.98	0.44
1:D:896:LEU:HD12	1:D:899:LEU:HD23	1.99	0.44
1:F:166:LEU:HG	1:F:291:GLY:HA3	2.00	0.44
1:F:316:ASP:O	1:F:320:ARG:HG3	2.17	0.44
1:F:331:LEU:HA	1:F:334:LEU:HG	2.00	0.44
1:F:366:PHE:CD2	1:F:446:PHE:CE2	3.06	0.44
1:F:537:LEU:HD13	1:F:742:SER:CB	2.48	0.44
1:G:613:LYS:HZ2	1:G:663:GLU:HB2	1.83	0.44
1:G:828:VAL:HG22	1:G:856:SER:O	2.17	0.44
1:G:868:LEU:HD11	1:G:917:TRP:CZ2	2.53	0.44
1:G:997:LEU:HD23	1:G:1019:PHE:CD2	2.52	0.44
1:H:217:TYR:HD1	1:H:221:LEU:HA	1.83	0.44
1:H:309:ILE:HG12	1:H:341:VAL:HG13	1.99	0.44
1:H:316:ASP:O	1:H:320:ARG:HG3	2.17	0.44
1:H:366:PHE:CD2	1:H:446:PHE:CE2	3.06	0.44
1:H:388:ARG:O	1:H:392:TYR:N	2.45	0.44
1:H:617:TYR:CD2	1:H:618:GLU:HB2	2.53	0.44
1:H:868:LEU:HD11	1:H:917:TRP:CZ2	2.53	0.44
1:H:928:GLY:HA2	1:H:931:LEU:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:164:PRO:HG2	1:J:290:VAL:HG12	2.00	0.44
1:J:217:TYR:HD1	1:J:221:LEU:HA	1.83	0.44
1:J:331:LEU:HA	1:J:334:LEU:HG	2.00	0.44
1:K:398:LEU:HD22	1:K:402:PHE:HE2	1.83	0.44
1:K:398:LEU:HD23	1:K:398:LEU:HA	1.78	0.44
1:K:455:LEU:HD23	1:K:458:LEU:HD12	1.99	0.44
1:K:616:PHE:CD2	1:K:680:LEU:HD21	2.53	0.44
1:K:617:TYR:CD2	1:K:618:GLU:HB2	2.53	0.44
1:B:798:LEU:HB2	1:B:808:MET:CE	2.47	0.44
1:B:997:LEU:HD23	1:B:1019:PHE:CD2	2.52	0.44
1:C:919:LEU:HD22	1:C:923:GLU:HG2	1.99	0.44
1:D:455:LEU:HD23	1:D:458:LEU:HD12	1.99	0.44
1:D:770:LEU:HB2	1:D:798:LEU:HD23	1.99	0.44
1:D:919:LEU:HD22	1:D:923:GLU:HG2	1.99	0.44
1:E:919:LEU:HD22	1:E:923:GLU:HG2	1.99	0.44
1:F:217:TYR:HD1	1:F:221:LEU:HA	1.83	0.44
1:F:283:CYS:O	1:F:286:HIS:ND1	2.47	0.44
1:F:356:ALA:HB3	1:F:358:THR:O	2.16	0.44
1:F:616:PHE:CD2	1:F:680:LEU:HD21	2.53	0.44
1:F:617:TYR:CD2	1:F:618:GLU:HB2	2.53	0.44
1:G:309:ILE:HG12	1:G:341:VAL:HG13	1.99	0.44
1:G:366:PHE:HD2	1:G:446:PHE:CE2	2.36	0.44
1:H:182:ILE:HD12	1:H:182:ILE:HA	1.83	0.44
1:I:166:LEU:HG	1:I:291:GLY:HA3	2.00	0.44
1:I:240:HIS:O	1:I:241:LYS:HB2	2.17	0.44
1:I:367:TYR:O	1:I:370:LEU:HB2	2.17	0.44
1:J:928:GLY:HA2	1:J:931:LEU:HB2	2.00	0.44
1:K:421:LEU:O	1:K:425:GLY:N	2.42	0.44
1:K:828:VAL:HG22	1:K:856:SER:O	2.17	0.44
1:K:928:GLY:HA2	1:K:931:LEU:HB2	2.00	0.44
1:A:455:LEU:HD23	1:A:458:LEU:HD12	1.99	0.44
1:A:534:ILE:CG2	1:A:613:LYS:HZ1	2.31	0.44
1:A:537:LEU:HD13	1:A:742:SER:CB	2.48	0.44
1:A:828:VAL:HG22	1:A:856:SER:O	2.17	0.44
1:B:169:GLY:HA3	1:B:297:VAL:HB	2.00	0.44
1:C:459:LEU:HD23	1:C:467:VAL:HG13	1.98	0.44
1:C:662:LEU:HD23	1:C:662:LEU:HA	1.82	0.44
1:C:799:THR:HB	1:C:826:LYS:HD3	2.00	0.44
1:D:537:LEU:HD13	1:D:742:SER:CB	2.48	0.44
1:E:896:LEU:HD12	1:E:899:LEU:HD23	1.99	0.44
1:G:616:PHE:CD2	1:G:680:LEU:HD21	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:166:LEU:HG	1:H:291:GLY:HA3	2.00	0.44
1:H:366:PHE:HD2	1:H:446:PHE:CE2	2.36	0.44
1:H:770:LEU:HB2	1:H:798:LEU:HD23	1.99	0.44
1:H:997:LEU:HD23	1:H:1019:PHE:CD2	2.52	0.44
1:I:331:LEU:HA	1:I:334:LEU:HG	2.00	0.44
1:I:616:PHE:CD2	1:I:680:LEU:HD21	2.53	0.44
1:K:184:MET:O	1:K:188:SER:OG	2.28	0.44
1:K:309:ILE:HG12	1:K:341:VAL:HG13	1.99	0.44
1:A:164:PRO:HG2	1:A:290:VAL:HG12	2.00	0.44
1:A:258:CYS:SG	1:A:259:PRO:HD3	2.58	0.44
1:A:756:ILE:H	1:A:756:ILE:HG13	1.66	0.44
1:A:899:LEU:O	1:A:902:GLN:HB2	2.17	0.44
1:A:970:PHE:CE1	1:A:1000:VAL:HG13	2.52	0.44
1:B:331:LEU:HA	1:B:334:LEU:HG	2.00	0.44
1:B:970:PHE:CE1	1:B:1000:VAL:HG13	2.52	0.44
1:D:309:ILE:HG12	1:D:341:VAL:HG13	1.99	0.44
1:E:820:CYS:SG	1:E:822:LEU:HB2	2.58	0.44
1:E:970:PHE:CE1	1:E:1000:VAL:HG13	2.52	0.44
1:F:366:PHE:HD2	1:F:446:PHE:CE2	2.36	0.44
1:G:166:LEU:HG	1:G:291:GLY:HA3	2.00	0.44
1:I:617:TYR:CD2	1:I:618:GLU:HB2	2.53	0.44
1:I:828:VAL:HG22	1:I:856:SER:O	2.17	0.44
1:J:240:HIS:O	1:J:241:LYS:HB2	2.17	0.44
1:J:258:CYS:SG	1:J:259:PRO:HD3	2.58	0.44
1:J:997:LEU:HD23	1:J:1019:PHE:CD2	2.52	0.44
1:K:820:CYS:SG	1:K:822:LEU:HB2	2.58	0.43
1:K:984:VAL:O	1:K:987:LEU:HB3	2.18	0.43
1:A:820:CYS:SG	1:A:822:LEU:HB2	2.58	0.43
1:B:537:LEU:HD13	1:B:742:SER:HB2	1.99	0.43
1:B:770:LEU:HB2	1:B:798:LEU:HD23	1.99	0.43
1:C:169:GLY:HA3	1:C:297:VAL:HB	2.00	0.43
1:C:617:TYR:CD2	1:C:618:GLU:HB2	2.53	0.43
1:C:820:CYS:SG	1:C:822:LEU:HB2	2.58	0.43
1:D:169:GLY:HA3	1:D:297:VAL:HB	2.00	0.43
1:D:799:THR:HB	1:D:826:LYS:HD3	2.00	0.43
1:D:820:CYS:SG	1:D:822:LEU:HB2	2.58	0.43
1:D:928:GLY:HA2	1:D:931:LEU:HB2	2.00	0.43
1:E:616:PHE:CD2	1:E:680:LEU:HD21	2.53	0.43
1:E:984:VAL:O	1:E:987:LEU:HB3	2.18	0.43
1:E:990:VAL:O	1:E:994:LEU:HG	2.18	0.43
1:F:164:PRO:HG2	1:F:290:VAL:HG12	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:370:LEU:HA	1:F:370:LEU:HD23	1.66	0.43
1:F:984:VAL:O	1:F:987:LEU:HB3	2.18	0.43
1:G:217:TYR:HD1	1:G:221:LEU:HA	1.83	0.43
1:G:366:PHE:CD2	1:G:446:PHE:CE2	3.06	0.43
1:H:240:HIS:O	1:H:241:LYS:HB2	2.17	0.43
1:H:537:LEU:HD13	1:H:742:SER:CB	2.48	0.43
1:K:217:TYR:HD1	1:K:221:LEU:HA	1.83	0.43
1:K:237:LEU:O	1:K:240:HIS:CE1	2.70	0.43
1:K:258:CYS:SG	1:K:259:PRO:HD3	2.58	0.43
1:B:455:LEU:HD23	1:B:458:LEU:HD12	1.99	0.43
1:B:820:CYS:SG	1:B:822:LEU:HB2	2.58	0.43
1:C:537:LEU:HD13	1:C:742:SER:HB2	1.98	0.43
1:E:169:GLY:HA3	1:E:297:VAL:HB	2.00	0.43
1:E:217:TYR:HD1	1:E:221:LEU:HA	1.83	0.43
1:E:617:TYR:CD2	1:E:618:GLU:HB2	2.53	0.43
1:E:742:SER:OG	1:E:769:ILE:O	2.29	0.43
1:E:928:GLY:HA2	1:E:931:LEU:HB2	2.00	0.43
1:E:934:ASN:HA	1:E:935:PRO:HD3	1.78	0.43
1:F:820:CYS:SG	1:F:822:LEU:HB2	2.58	0.43
1:F:868:LEU:HD11	1:F:917:TRP:CZ2	2.53	0.43
1:F:896:LEU:HD12	1:F:899:LEU:HD23	1.99	0.43
1:F:970:PHE:CE1	1:F:1000:VAL:HG13	2.52	0.43
1:G:240:HIS:O	1:G:241:LYS:HB2	2.17	0.43
1:G:896:LEU:HD12	1:G:899:LEU:HD23	1.99	0.43
1:G:928:GLY:HA2	1:G:931:LEU:HB2	2.00	0.43
1:H:331:LEU:HA	1:H:334:LEU:HG	2.00	0.43
1:H:984:VAL:O	1:H:987:LEU:HB3	2.18	0.43
1:I:984:VAL:O	1:I:987:LEU:HB3	2.18	0.43
1:I:985:ARG:HE	1:J:685:SER:CB	2.31	0.43
1:J:617:TYR:CD2	1:J:618:GLU:HB2	2.53	0.43
1:J:828:VAL:HG22	1:J:856:SER:O	2.17	0.43
1:K:833:THR:O	1:K:836:SER:OG	2.32	0.43
1:A:370:LEU:HD23	1:A:370:LEU:HA	1.66	0.43
1:B:258:CYS:SG	1:B:259:PRO:HD3	2.58	0.43
1:B:537:LEU:HD13	1:B:742:SER:CB	2.48	0.43
1:B:799:THR:HB	1:B:826:LYS:HD3	2.01	0.43
1:C:770:LEU:HD23	1:C:770:LEU:HA	1.74	0.43
1:C:990:VAL:O	1:C:994:LEU:HG	2.18	0.43
1:E:868:LEU:HD11	1:E:917:TRP:CZ2	2.53	0.43
1:E:997:LEU:HD23	1:E:1019:PHE:CD2	2.52	0.43
1:F:928:GLY:HA2	1:F:931:LEU:HB2	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:990:VAL:O	1:F:994:LEU:HG	2.18	0.43
1:G:899:LEU:O	1:G:902:GLN:HB2	2.17	0.43
1:G:940:GLN:HA	1:G:968:VAL:HB	2.01	0.43
1:H:940:GLN:HA	1:H:968:VAL:HB	2.01	0.43
1:I:241:LYS:O	1:I:241:LYS:HG2	2.16	0.43
1:I:258:CYS:SG	1:I:259:PRO:HD3	2.59	0.43
1:I:309:ILE:HG12	1:I:341:VAL:HG13	1.99	0.43
1:I:613:LYS:HZ2	1:I:663:GLU:HB2	1.83	0.43
1:I:868:LEU:HD11	1:I:917:TRP:CZ2	2.53	0.43
1:J:691:ARG:CZ	1:J:715:HIS:HD2	2.32	0.43
1:J:770:LEU:HB2	1:J:798:LEU:HD23	1.99	0.43
1:J:984:VAL:O	1:J:987:LEU:HB3	2.18	0.43
1:K:169:GLY:HA3	1:K:297:VAL:HB	2.00	0.43
1:K:997:LEU:HD23	1:K:1019:PHE:CD2	2.52	0.43
1:A:169:GLY:HA3	1:A:297:VAL:HB	2.00	0.43
1:A:787:LEU:HD13	1:A:815:LEU:HD23	2.01	0.43
1:A:799:THR:HB	1:A:826:LYS:HD3	2.00	0.43
1:B:164:PRO:HG2	1:B:290:VAL:HG12	2.00	0.43
1:B:366:PHE:HD2	1:B:446:PHE:CE2	2.36	0.43
1:B:899:LEU:O	1:B:902:GLN:HB2	2.17	0.43
1:B:990:VAL:O	1:B:994:LEU:HG	2.18	0.43
1:C:217:TYR:HD1	1:C:221:LEU:HA	1.83	0.43
1:C:239:LEU:HB3	1:C:242:GLU:HB2	2.01	0.43
1:C:537:LEU:HD13	1:C:742:SER:CB	2.48	0.43
1:C:787:LEU:HD13	1:C:815:LEU:HD23	2.01	0.43
1:D:398:LEU:HA	1:D:398:LEU:HD23	1.78	0.43
1:D:695:LYS:NZ	1:D:720:GLU:OE2	2.51	0.43
1:E:695:LYS:NZ	1:E:720:GLU:OE2	2.51	0.43
1:E:799:THR:HB	1:E:826:LYS:HD3	2.00	0.43
1:E:985:ARG:NE	1:F:685:SER:OG	2.51	0.43
1:F:203:ILE:O	1:F:248:ASP:N	2.40	0.43
1:F:985:ARG:O	1:F:988:SER:OG	2.19	0.43
1:G:820:CYS:SG	1:G:822:LEU:HB2	2.58	0.43
1:G:990:VAL:O	1:G:994:LEU:HG	2.19	0.43
1:I:398:LEU:HD23	1:I:398:LEU:HA	1.78	0.43
1:I:940:GLN:HA	1:I:968:VAL:HB	2.01	0.43
1:J:398:LEU:HD23	1:J:398:LEU:HA	1.78	0.43
1:J:421:LEU:O	1:J:425:GLY:N	2.42	0.43
1:J:550:ASN:HB3	1:J:553:SER:HB2	2.01	0.43
1:J:797:HIS:HB3	1:J:826:LYS:HD2	2.00	0.43
1:J:820:CYS:SG	1:J:822:LEU:HB2	2.58	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:221:LEU:HD13	1:J:267:GLU:OE2	2.19	0.43
1:K:550:ASN:HB3	1:K:553:SER:HB2	2.01	0.43
1:A:366:PHE:HD2	1:A:446:PHE:CE2	2.36	0.43
1:A:550:ASN:HB3	1:A:553:SER:HB2	2.01	0.43
1:A:868:LEU:HD11	1:A:917:TRP:CZ2	2.53	0.43
1:A:984:VAL:O	1:A:987:LEU:HB3	2.18	0.43
1:B:309:ILE:HG12	1:B:341:VAL:HG13	1.99	0.43
1:C:455:LEU:HD23	1:C:458:LEU:HD12	1.99	0.43
1:E:239:LEU:HB3	1:E:242:GLU:HB2	2.01	0.43
1:F:787:LEU:HD13	1:F:815:LEU:HD23	2.01	0.43
1:F:865:ASN:HB2	1:F:895:SER:CB	2.49	0.43
1:G:537:LEU:HD13	1:G:742:SER:CB	2.48	0.43
1:H:422:VAL:HG13	1:H:428:CYS:HA	2.01	0.43
1:J:283:CYS:O	1:J:286:HIS:ND1	2.47	0.43
1:J:746:LEU:O	1:J:747:HIS:HB2	2.19	0.43
1:K:366:PHE:HD2	1:K:446:PHE:CE2	2.36	0.43
1:K:691:ARG:CZ	1:K:715:HIS:HD2	2.32	0.43
1:K:921:ASP:OD1	1:K:953:GLY:HA3	2.19	0.43
1:A:823:GLN:HA	1:A:850:LEU:HA	2.01	0.43
1:B:157:LEU:HD11	1:B:293:LEU:HD21	2.01	0.43
1:B:616:PHE:CD2	1:B:680:LEU:HD21	2.53	0.43
1:B:984:VAL:O	1:B:987:LEU:HB3	2.18	0.43
1:C:164:PRO:HG2	1:C:290:VAL:HG12	1.99	0.43
1:C:258:CYS:SG	1:C:259:PRO:HD3	2.58	0.43
1:C:366:PHE:HD2	1:C:446:PHE:CE2	2.36	0.43
1:D:616:PHE:CD2	1:D:680:LEU:HD21	2.53	0.43
1:D:787:LEU:HD13	1:D:815:LEU:HD23	2.01	0.43
1:E:164:PRO:HG2	1:E:290:VAL:HG12	2.00	0.43
1:E:691:ARG:CZ	1:E:715:HIS:HD2	2.32	0.43
1:E:865:ASN:HB2	1:E:895:SER:CB	2.49	0.43
1:F:921:ASP:OD1	1:F:953:GLY:HA3	2.19	0.43
1:G:316:ASP:O	1:G:320:ARG:HG3	2.17	0.43
1:G:865:ASN:HB2	1:G:895:SER:CB	2.49	0.43
1:G:921:ASP:OD1	1:G:953:GLY:HA3	2.19	0.43
1:H:108:LEU:HD23	1:H:108:LEU:HA	1.84	0.43
1:H:258:CYS:SG	1:H:259:PRO:HD3	2.59	0.43
1:I:217:TYR:HD1	1:I:221:LEU:HA	1.83	0.43
1:I:421:LEU:O	1:I:425:GLY:N	2.42	0.43
1:I:422:VAL:HG13	1:I:428:CYS:HA	2.01	0.43
1:I:691:ARG:CZ	1:I:715:HIS:HD2	2.32	0.43
1:J:798:LEU:HB2	1:J:808:MET:HE3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:823:GLN:HA	1:J:850:LEU:HA	2.01	0.43
1:K:203:ILE:O	1:K:248:ASP:N	2.40	0.43
1:K:746:LEU:O	1:K:747:HIS:HB2	2.19	0.43
1:K:797:HIS:HB3	1:K:826:LYS:HD2	2.00	0.43
1:K:799:THR:HB	1:K:826:LYS:HD3	2.00	0.43
1:K:868:LEU:HD11	1:K:917:TRP:CZ2	2.53	0.43
1:A:421:LEU:O	1:A:425:GLY:N	2.42	0.43
1:A:422:VAL:HG13	1:A:428:CYS:HA	2.01	0.43
1:A:616:PHE:CD2	1:A:680:LEU:HD21	2.53	0.43
1:B:217:TYR:HD1	1:B:221:LEU:HA	1.83	0.43
1:C:398:LEU:HA	1:C:398:LEU:HD23	1.78	0.43
1:C:448:GLU:OE1	1:C:493:TYR:OH	2.17	0.43
1:C:868:LEU:HD11	1:C:917:TRP:CZ2	2.53	0.43
1:D:320:ARG:NH1	1:D:352:GLN:O	2.41	0.43
1:D:364:GLN:HA	1:D:367:TYR:CD2	2.32	0.43
1:D:657:GLN:HA	1:D:658:GLU:HA	1.75	0.43
1:D:970:PHE:CE1	1:D:1000:VAL:HG13	2.52	0.43
1:E:787:LEU:HD13	1:E:815:LEU:HD23	2.01	0.43
1:E:940:GLN:HA	1:E:968:VAL:HB	2.01	0.43
1:F:398:LEU:HD23	1:F:398:LEU:HA	1.78	0.43
1:F:422:VAL:HG11	1:F:429:LYS:HG2	2.01	0.43
1:F:982:ALA:HA	1:F:985:ARG:NH1	2.34	0.43
1:F:985:ARG:HE	1:G:685:SER:CB	2.31	0.43
1:G:124:ILE:N	1:G:125:ASP:HA	2.34	0.43
1:G:984:VAL:O	1:G:987:LEU:HB3	2.18	0.43
1:H:250:TYR:CG	1:H:279:THR:HA	2.54	0.43
1:H:320:ARG:NH1	1:H:352:GLN:O	2.41	0.43
1:H:787:LEU:HD13	1:H:815:LEU:HD23	2.01	0.43
1:H:820:CYS:SG	1:H:822:LEU:HB2	2.58	0.43
1:H:990:VAL:O	1:H:994:LEU:HG	2.18	0.43
1:I:366:PHE:HD2	1:I:446:PHE:CE2	2.36	0.43
1:I:746:LEU:O	1:I:747:HIS:HB2	2.19	0.43
1:I:797:HIS:HB3	1:I:826:LYS:HD2	2.00	0.43
1:I:820:CYS:SG	1:I:822:LEU:HB2	2.58	0.43
1:J:422:VAL:HG13	1:J:428:CYS:HA	2.01	0.43
1:J:940:GLN:HA	1:J:968:VAL:HB	2.01	0.43
1:A:691:ARG:NH2	1:A:739:GLN:OE1	2.52	0.43
1:A:797:HIS:HB3	1:A:826:LYS:HD2	2.00	0.43
1:B:453:ARG:HG2	1:B:453:ARG:NH1	2.34	0.43
1:B:787:LEU:HD13	1:B:815:LEU:HD23	2.01	0.43
1:C:770:LEU:HB2	1:C:798:LEU:HD23	1.99	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:157:LEU:HD11	1:D:293:LEU:HD21	2.01	0.43
1:D:164:PRO:HG2	1:D:290:VAL:HG12	2.00	0.43
1:D:250:TYR:CG	1:D:279:THR:HA	2.54	0.43
1:D:422:VAL:HG11	1:D:429:LYS:HG2	2.01	0.43
1:D:453:ARG:HG2	1:D:453:ARG:NH1	2.34	0.43
1:D:865:ASN:HB2	1:D:895:SER:CB	2.49	0.43
1:E:366:PHE:HD2	1:E:446:PHE:CE2	2.36	0.43
1:E:797:HIS:HB3	1:E:826:LYS:HD2	2.00	0.43
1:F:250:TYR:CG	1:F:279:THR:HA	2.54	0.43
1:F:334:LEU:HD22	1:F:340:PHE:CD2	2.54	0.43
1:F:797:HIS:HB3	1:F:826:LYS:HD2	2.00	0.43
1:F:799:THR:HB	1:F:826:LYS:HD3	2.00	0.43
1:F:940:GLN:HA	1:F:968:VAL:HB	2.01	0.43
1:G:258:CYS:SG	1:G:259:PRO:HD3	2.58	0.43
1:G:691:ARG:NH2	1:G:739:GLN:OE1	2.52	0.43
1:G:787:LEU:HD13	1:G:815:LEU:HD23	2.01	0.43
1:H:823:GLN:HA	1:H:850:LEU:HA	2.01	0.43
1:H:865:ASN:HB2	1:H:895:SER:CB	2.49	0.43
1:H:982:ALA:HA	1:H:985:ARG:NH1	2.34	0.43
1:I:283:CYS:O	1:I:286:HIS:ND1	2.47	0.43
1:I:770:LEU:HB2	1:I:798:LEU:HD23	1.99	0.43
1:J:787:LEU:HD13	1:J:815:LEU:HD23	2.01	0.43
1:K:124:ILE:N	1:K:125:ASP:HA	2.34	0.43
1:K:157:LEU:HD11	1:K:293:LEU:HD21	2.01	0.43
1:K:823:GLN:HA	1:K:850:LEU:HA	2.01	0.43
1:K:934:ASN:HA	1:K:935:PRO:HD3	1.78	0.43
1:A:239:LEU:HB3	1:A:242:GLU:HB2	2.01	0.43
1:A:662:LEU:HA	1:A:662:LEU:HD23	1.82	0.43
1:A:746:LEU:O	1:A:747:HIS:HB2	2.19	0.43
1:B:334:LEU:HD22	1:B:340:PHE:CD2	2.54	0.43
1:B:422:VAL:HG13	1:B:428:CYS:HA	2.01	0.43
1:B:550:ASN:HB3	1:B:553:SER:HB2	2.01	0.43
1:B:749:GLN:CD	1:B:774:ARG:NH1	2.73	0.43
1:B:823:GLN:HA	1:B:850:LEU:HA	2.01	0.43
1:C:749:GLN:CD	1:C:774:ARG:NH1	2.73	0.43
1:C:823:GLN:HA	1:C:850:LEU:HA	2.01	0.43
1:C:921:ASP:OD1	1:C:953:GLY:HA3	2.19	0.43
1:D:258:CYS:SG	1:D:259:PRO:HD3	2.58	0.43
1:D:334:LEU:HD22	1:D:340:PHE:CD2	2.54	0.43
1:D:691:ARG:CZ	1:D:715:HIS:HD2	2.32	0.43
1:D:749:GLN:CD	1:D:774:ARG:NH1	2.73	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:984:VAL:O	1:D:987:LEU:HB3	2.18	0.43
1:E:250:TYR:CG	1:E:279:THR:HA	2.54	0.43
1:E:422:VAL:HG13	1:E:428:CYS:HA	2.01	0.43
1:F:422:VAL:HG13	1:F:428:CYS:HA	2.01	0.43
1:F:470:GLY:O	1:F:473:TYR:HB2	2.19	0.43
1:F:695:LYS:NZ	1:F:720:GLU:OE2	2.51	0.43
1:G:169:GLY:HA3	1:G:297:VAL:HB	2.00	0.43
1:H:422:VAL:HG11	1:H:429:LYS:HG2	2.01	0.43
1:H:695:LYS:NZ	1:H:720:GLU:OE2	2.51	0.43
1:I:334:LEU:HD22	1:I:340:PHE:CD2	2.54	0.43
1:I:550:ASN:HB3	1:I:553:SER:HB2	2.01	0.43
1:I:982:ALA:HA	1:I:985:ARG:NH1	2.34	0.43
1:J:250:TYR:CG	1:J:279:THR:HA	2.54	0.43
1:J:799:THR:HB	1:J:826:LYS:HD3	2.00	0.43
1:J:921:ASP:OD1	1:J:953:GLY:HA3	2.19	0.43
1:K:422:VAL:HG13	1:K:428:CYS:HA	2.01	0.43
1:K:691:ARG:NH2	1:K:739:GLN:OE1	2.52	0.43
1:A:250:TYR:CG	1:A:279:THR:HA	2.54	0.43
1:A:982:ALA:HA	1:A:985:ARG:NH1	2.34	0.43
1:B:982:ALA:HA	1:B:985:ARG:NH1	2.34	0.43
1:C:865:ASN:HB2	1:C:895:SER:CB	2.49	0.43
1:C:985:ARG:HE	1:D:685:SER:CB	2.31	0.43
1:D:217:TYR:HD1	1:D:221:LEU:HA	1.83	0.43
1:D:366:PHE:HD2	1:D:446:PHE:CE2	2.36	0.43
1:D:823:GLN:HA	1:D:850:LEU:HA	2.01	0.43
1:D:940:GLN:HA	1:D:968:VAL:HB	2.01	0.43
1:E:258:CYS:SG	1:E:259:PRO:HD3	2.58	0.43
1:E:982:ALA:HA	1:E:985:ARG:NH1	2.34	0.43
1:F:124:ILE:N	1:F:125:ASP:HA	2.34	0.43
1:F:169:GLY:HA3	1:F:297:VAL:HB	2.00	0.43
1:G:422:VAL:HG13	1:G:428:CYS:HA	2.01	0.43
1:G:455:LEU:HD23	1:G:455:LEU:HA	1.69	0.43
1:G:470:GLY:O	1:G:473:TYR:HB2	2.19	0.43
1:H:470:GLY:O	1:H:473:TYR:HB2	2.19	0.43
1:H:490:LEU:HA	1:H:493:TYR:CD2	2.54	0.43
1:H:550:ASN:HB3	1:H:553:SER:HB2	2.01	0.43
1:I:124:ILE:N	1:I:125:ASP:HA	2.34	0.43
1:I:749:GLN:CD	1:I:774:ARG:NH1	2.73	0.43
1:I:787:LEU:HD13	1:I:815:LEU:HD23	2.01	0.43
1:J:366:PHE:HD2	1:J:446:PHE:CE2	2.36	0.43
1:K:526:ARG:HB2	1:K:527:PRO:HD3	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:740:ASN:OD1	1:K:767:ARG:NH1	2.52	0.42
1:K:990:VAL:O	1:K:994:LEU:HG	2.18	0.42
1:A:162:LYS:H	1:A:293:LEU:HD22	1.85	0.42
1:A:334:LEU:HD22	1:A:340:PHE:CD2	2.54	0.42
1:A:453:ARG:HG2	1:A:453:ARG:NH1	2.34	0.42
1:A:526:ARG:HB2	1:A:527:PRO:HD3	2.01	0.42
1:A:749:GLN:CD	1:A:774:ARG:NH1	2.73	0.42
1:A:990:VAL:O	1:A:994:LEU:HG	2.18	0.42
1:B:162:LYS:H	1:B:293:LEU:HD22	1.84	0.42
1:B:250:TYR:CG	1:B:279:THR:HA	2.54	0.42
1:C:490:LEU:HA	1:C:493:TYR:CD2	2.54	0.42
1:C:691:ARG:NH2	1:C:739:GLN:OE1	2.52	0.42
1:C:984:VAL:O	1:C:987:LEU:HB3	2.18	0.42
1:D:203:ILE:N	1:D:246:LEU:O	2.46	0.42
1:D:797:HIS:HB3	1:D:826:LYS:HD2	2.00	0.42
1:D:798:LEU:HB2	1:D:808:MET:HE3	2.00	0.42
1:E:203:ILE:O	1:E:248:ASP:N	2.40	0.42
1:E:334:LEU:HD22	1:E:340:PHE:CD2	2.54	0.42
1:E:470:GLY:O	1:E:473:TYR:HB2	2.19	0.42
1:E:749:GLN:CD	1:E:774:ARG:NH1	2.73	0.42
1:F:258:CYS:SG	1:F:259:PRO:HD3	2.59	0.42
1:F:740:ASN:OD1	1:F:767:ARG:NH1	2.52	0.42
1:F:749:GLN:CD	1:F:774:ARG:NH1	2.73	0.42
1:G:448:GLU:OE1	1:G:493:TYR:OH	2.17	0.42
1:G:490:LEU:HA	1:G:493:TYR:CD2	2.54	0.42
1:H:370:LEU:HA	1:H:370:LEU:HD23	1.66	0.42
1:H:453:ARG:NH1	1:H:453:ARG:HG2	2.34	0.42
1:H:616:PHE:CD2	1:H:680:LEU:HD21	2.53	0.42
1:H:657:GLN:HA	1:H:658:GLU:HA	1.75	0.42
1:I:250:TYR:CG	1:I:279:THR:HA	2.54	0.42
1:I:617:TYR:CE2	1:I:618:GLU:HB2	2.55	0.42
1:I:865:ASN:HB2	1:I:895:SER:CB	2.49	0.42
1:I:990:VAL:O	1:I:994:LEU:HG	2.18	0.42
1:J:124:ILE:N	1:J:125:ASP:HA	2.34	0.42
1:J:334:LEU:HD22	1:J:340:PHE:CD2	2.54	0.42
1:J:398:LEU:HD22	1:J:402:PHE:HE2	1.83	0.42
1:J:417:ASN:O	1:J:420:VAL:HB	2.19	0.42
1:J:490:LEU:HA	1:J:493:TYR:CD2	2.54	0.42
1:J:740:ASN:OD1	1:J:767:ARG:NH1	2.52	0.42
1:K:162:LYS:H	1:K:293:LEU:HD22	1.84	0.42
1:K:470:GLY:O	1:K:473:TYR:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:787:LEU:HD13	1:K:815:LEU:HD23	2.01	0.42
1:K:807:GLY:O	1:K:810:TYR:HB2	2.19	0.42
1:K:865:ASN:HB2	1:K:895:SER:CB	2.49	0.42
1:K:940:GLN:HA	1:K:968:VAL:HB	2.01	0.42
1:K:982:ALA:HA	1:K:985:ARG:NH1	2.34	0.42
1:A:490:LEU:HA	1:A:493:TYR:CD2	2.54	0.42
1:A:865:ASN:HB2	1:A:895:SER:CB	2.49	0.42
1:B:489:ASN:HB3	1:B:493:TYR:CZ	2.55	0.42
1:B:865:ASN:HB2	1:B:895:SER:CB	2.49	0.42
1:C:334:LEU:HD22	1:C:340:PHE:CD2	2.54	0.42
1:C:396:LEU:HD23	1:C:396:LEU:HA	1.81	0.42
1:C:526:ARG:HB2	1:C:527:PRO:HD3	2.01	0.42
1:D:203:ILE:O	1:D:248:ASP:N	2.40	0.42
1:D:239:LEU:HB3	1:D:242:GLU:HB2	2.01	0.42
1:D:915:LYS:HE3	1:D:915:LYS:HB2	1.70	0.42
1:D:990:VAL:O	1:D:994:LEU:HG	2.18	0.42
1:E:136:GLU:OE1	1:E:153:THR:HB	2.19	0.42
1:E:157:LEU:HD11	1:E:293:LEU:HD21	2.01	0.42
1:E:203:ILE:N	1:E:246:LEU:O	2.46	0.42
1:E:283:CYS:O	1:E:286:HIS:ND1	2.47	0.42
1:E:453:ARG:NH1	1:E:453:ARG:HG2	2.34	0.42
1:E:490:LEU:HA	1:E:493:TYR:CD2	2.54	0.42
1:E:613:LYS:HZ2	1:E:663:GLU:HB2	1.84	0.42
1:F:150:GLU:HG3	1:F:152:LEU:HD21	2.02	0.42
1:F:157:LEU:HD11	1:F:293:LEU:HD21	2.01	0.42
1:G:150:GLU:HG3	1:G:152:LEU:HD21	2.01	0.42
1:G:334:LEU:HD22	1:G:340:PHE:CD2	2.54	0.42
1:G:695:LYS:NZ	1:G:720:GLU:OE2	2.51	0.42
1:G:740:ASN:OD1	1:G:767:ARG:NH1	2.52	0.42
1:G:749:GLN:CD	1:G:774:ARG:NH1	2.73	0.42
1:H:749:GLN:CD	1:H:774:ARG:NH1	2.73	0.42
1:H:921:ASP:OD1	1:H:953:GLY:HA3	2.19	0.42
1:H:944:LEU:O	1:H:973:SER:OG	2.37	0.42
1:I:397:ALA:HB1	1:I:447:GLN:HE21	1.85	0.42
1:I:417:ASN:O	1:I:420:VAL:HB	2.20	0.42
1:I:798:LEU:HB2	1:I:808:MET:HE3	2.00	0.42
1:I:807:GLY:O	1:I:810:TYR:HB2	2.19	0.42
1:J:169:GLY:HA3	1:J:297:VAL:HB	2.00	0.42
1:J:865:ASN:HB2	1:J:895:SER:CB	2.49	0.42
1:J:982:ALA:HA	1:J:985:ARG:NH1	2.34	0.42
1:K:334:LEU:HD22	1:K:340:PHE:CD2	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:617:TYR:CE2	1:A:618:GLU:HB2	2.55	0.42
1:A:674:LYS:HA	1:A:677:ILE:CG1	2.50	0.42
1:A:940:GLN:HA	1:A:968:VAL:HB	2.01	0.42
1:B:239:LEU:HB3	1:B:242:GLU:HB2	2.01	0.42
1:B:691:ARG:NH2	1:B:739:GLN:OE1	2.52	0.42
1:B:701:ALA:C	1:B:703:ARG:H	2.23	0.42
1:B:896:LEU:CD1	1:B:899:LEU:HD23	2.50	0.42
1:C:417:ASN:O	1:C:420:VAL:HB	2.19	0.42
1:C:470:GLY:O	1:C:473:TYR:HB2	2.19	0.42
1:C:797:HIS:HB3	1:C:826:LYS:HD2	2.00	0.42
1:C:940:GLN:HA	1:C:968:VAL:HB	2.01	0.42
1:D:422:VAL:HG13	1:D:428:CYS:HA	2.01	0.42
1:D:470:GLY:O	1:D:473:TYR:HB2	2.19	0.42
1:D:489:ASN:HB3	1:D:493:TYR:CZ	2.55	0.42
1:D:490:LEU:HA	1:D:493:TYR:CD2	2.54	0.42
1:D:691:ARG:NH2	1:D:739:GLN:OE1	2.52	0.42
1:D:921:ASP:OD1	1:D:953:GLY:HA3	2.19	0.42
1:D:985:ARG:HE	1:E:685:SER:CB	2.32	0.42
1:E:150:GLU:HG3	1:E:152:LEU:HD21	2.02	0.42
1:E:397:ALA:HB1	1:E:447:GLN:HE21	1.85	0.42
1:E:398:LEU:HA	1:E:398:LEU:HD23	1.78	0.42
1:E:693:HIS:HD2	1:E:694:ILE:N	2.18	0.42
1:F:136:GLU:OE1	1:F:153:THR:HB	2.19	0.42
1:F:239:LEU:HB3	1:F:242:GLU:HB2	2.01	0.42
1:F:693:HIS:HD2	1:F:694:ILE:N	2.18	0.42
1:F:944:LEU:O	1:F:973:SER:OG	2.38	0.42
1:G:136:GLU:OE1	1:G:153:THR:HB	2.19	0.42
1:G:250:TYR:CG	1:G:279:THR:HA	2.54	0.42
1:G:807:GLY:O	1:G:810:TYR:HB2	2.19	0.42
1:H:124:ILE:N	1:H:125:ASP:HA	2.34	0.42
1:H:746:LEU:O	1:H:747:HIS:HB2	2.19	0.42
1:H:797:HIS:HB3	1:H:826:LYS:HD2	2.00	0.42
1:H:799:THR:HB	1:H:826:LYS:HD3	2.00	0.42
1:H:813:LYS:HD2	1:H:813:LYS:HA	1.78	0.42
1:I:691:ARG:NH2	1:I:739:GLN:OE1	2.52	0.42
1:I:823:GLN:HA	1:I:850:LEU:HA	2.01	0.42
1:J:453:ARG:HG2	1:J:453:ARG:NH1	2.34	0.42
1:J:662:LEU:HD23	1:J:662:LEU:HA	1.82	0.42
1:J:749:GLN:CD	1:J:774:ARG:NH1	2.73	0.42
1:J:990:VAL:O	1:J:994:LEU:HG	2.18	0.42
1:K:250:TYR:CG	1:K:279:THR:HA	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:K:329:ARG:HA	1:K:329:ARG:HD3	1.77	0.42
1:K:617:TYR:CE2	1:K:618:GLU:HB2	2.55	0.42
1:K:674:LYS:HA	1:K:677:ILE:CG1	2.50	0.42
1:K:695:LYS:NZ	1:K:720:GLU:OE2	2.51	0.42
1:K:892:VAL:CG1	1:K:917:TRP:HA	2.50	0.42
1:A:695:LYS:NZ	1:A:720:GLU:OE2	2.51	0.42
1:B:417:ASN:O	1:B:420:VAL:HB	2.19	0.42
1:B:526:ARG:HB2	1:B:527:PRO:HD3	2.01	0.42
1:B:691:ARG:CZ	1:B:715:HIS:HD2	2.32	0.42
1:B:797:HIS:HB3	1:B:826:LYS:HD2	2.00	0.42
1:C:550:ASN:HB3	1:C:553:SER:HB2	2.01	0.42
1:D:108:LEU:HD23	1:D:108:LEU:HA	1.84	0.42
1:D:263:ALA:O	1:D:267:GLU:HB2	2.20	0.42
1:E:182:ILE:HD12	1:E:182:ILE:HA	1.84	0.42
1:E:691:ARG:NH2	1:E:739:GLN:OE1	2.52	0.42
1:E:944:LEU:O	1:E:973:SER:OG	2.37	0.42
1:F:117:PHE:HZ	1:F:176:SER:CB	2.23	0.42
1:F:162:LYS:H	1:F:293:LEU:HD22	1.84	0.42
1:F:203:ILE:N	1:F:246:LEU:O	2.46	0.42
1:F:823:GLN:HA	1:F:850:LEU:HA	2.01	0.42
1:G:157:LEU:HD11	1:G:293:LEU:HD21	2.01	0.42
1:G:162:LYS:H	1:G:293:LEU:HD22	1.84	0.42
1:G:397:ALA:HB1	1:G:447:GLN:HE21	1.85	0.42
1:G:799:THR:HB	1:G:826:LYS:HD3	2.00	0.42
1:H:691:ARG:CZ	1:H:715:HIS:HD2	2.32	0.42
1:I:169:GLY:HA3	1:I:297:VAL:HB	2.00	0.42
1:I:470:GLY:O	1:I:473:TYR:HB2	2.19	0.42
1:I:799:THR:HB	1:I:826:LYS:HD3	2.00	0.42
1:I:921:ASP:OD1	1:I:953:GLY:HA3	2.19	0.42
1:I:944:LEU:O	1:I:973:SER:OG	2.37	0.42
1:J:370:LEU:HD23	1:J:370:LEU:HA	1.66	0.42
1:J:470:GLY:O	1:J:473:TYR:HB2	2.19	0.42
1:J:489:ASN:HB3	1:J:493:TYR:CZ	2.55	0.42
1:J:526:ARG:HB2	1:J:527:PRO:HD3	2.01	0.42
1:K:397:ALA:HB1	1:K:447:GLN:HE21	1.85	0.42
1:K:480:ILE:HD12	1:K:557:CYS:HB2	2.02	0.42
1:K:701:ALA:C	1:K:703:ARG:H	2.23	0.42
1:A:480:ILE:HD12	1:A:557:CYS:HB2	2.02	0.42
1:A:691:ARG:CZ	1:A:715:HIS:HD2	2.32	0.42
1:A:921:ASP:OD1	1:A:953:GLY:HA3	2.19	0.42
1:A:985:ARG:HE	1:B:685:SER:CB	2.31	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:674:LYS:HA	1:B:677:ILE:CG1	2.50	0.42
1:B:940:GLN:HA	1:B:968:VAL:HB	2.01	0.42
1:C:148:ARG:NH2	1:C:298:GLY:HA2	2.35	0.42
1:C:162:LYS:H	1:C:293:LEU:HD22	1.84	0.42
1:C:422:VAL:HG13	1:C:428:CYS:HA	2.01	0.42
1:C:489:ASN:HB3	1:C:493:TYR:CZ	2.54	0.42
1:C:691:ARG:CZ	1:C:715:HIS:HD2	2.32	0.42
1:C:740:ASN:OD1	1:C:767:ARG:NH1	2.52	0.42
1:C:807:GLY:O	1:C:810:TYR:HB2	2.19	0.42
1:D:148:ARG:NH2	1:D:298:GLY:HA2	2.35	0.42
1:D:162:LYS:H	1:D:293:LEU:HD22	1.84	0.42
1:D:306:LYS:HD2	1:D:322:TRP:CZ3	2.55	0.42
1:D:433:GLN:CG	1:E:125:ASP:H	2.19	0.42
1:D:892:VAL:CG1	1:D:917:TRP:HA	2.50	0.42
1:E:162:LYS:H	1:E:293:LEU:HD22	1.84	0.42
1:E:740:ASN:OD1	1:E:767:ARG:NH1	2.52	0.42
1:E:746:LEU:O	1:E:747:HIS:HB2	2.19	0.42
1:E:807:GLY:O	1:E:810:TYR:HB2	2.19	0.42
1:E:896:LEU:CD1	1:E:899:LEU:HD23	2.50	0.42
1:F:490:LEU:HA	1:F:493:TYR:CD2	2.54	0.42
1:F:533:SEP:O	1:F:536:SER:OG	2.34	0.42
1:F:617:TYR:CE2	1:F:618:GLU:HB2	2.55	0.42
1:G:306:LYS:HD2	1:G:322:TRP:CZ3	2.55	0.42
1:G:691:ARG:CZ	1:G:715:HIS:HD2	2.32	0.42
1:G:896:LEU:CD1	1:G:899:LEU:HD23	2.50	0.42
1:G:982:ALA:HA	1:G:985:ARG:NH1	2.34	0.42
1:H:150:GLU:HG3	1:H:152:LEU:HD21	2.01	0.42
1:H:289:HIS:HE1	1:I:119:PRO:HA	1.82	0.42
1:H:896:LEU:CD1	1:H:899:LEU:HD23	2.50	0.42
1:I:157:LEU:HD11	1:I:293:LEU:HD21	2.01	0.42
1:I:453:ARG:HG2	1:I:453:ARG:NH1	2.34	0.42
1:I:518:LEU:HD22	1:I:549:ILE:HG22	2.02	0.42
1:J:422:VAL:HG11	1:J:429:LYS:HG2	2.01	0.42
1:J:518:LEU:HD22	1:J:549:ILE:HG22	2.02	0.42
1:J:617:TYR:CE2	1:J:618:GLU:HB2	2.54	0.42
1:K:136:GLU:OE1	1:K:153:THR:HB	2.19	0.42
1:K:148:ARG:NH2	1:K:298:GLY:HA2	2.35	0.42
1:A:124:ILE:N	1:A:125:ASP:HA	2.34	0.42
1:A:470:GLY:O	1:A:473:TYR:HB2	2.19	0.42
1:A:489:ASN:HB3	1:A:493:TYR:CZ	2.55	0.42
1:B:306:LYS:HD2	1:B:322:TRP:CZ3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:320:ARG:NH1	1:B:352:GLN:O	2.41	0.42
1:B:397:ALA:HB1	1:B:447:GLN:HE21	1.85	0.42
1:B:398:LEU:HA	1:B:398:LEU:HD23	1.78	0.42
1:B:470:GLY:O	1:B:473:TYR:HB2	2.19	0.42
1:B:907:PRO:HA	1:B:936:LEU:HD13	2.02	0.42
1:C:203:ILE:N	1:C:246:LEU:O	2.46	0.42
1:C:397:ALA:HB1	1:C:447:GLN:HE21	1.85	0.42
1:C:453:ARG:NH1	1:C:453:ARG:HG2	2.34	0.42
1:C:892:VAL:CG1	1:C:917:TRP:HA	2.50	0.42
1:D:136:GLU:OE1	1:D:153:THR:HB	2.19	0.42
1:D:150:GLU:HG3	1:D:152:LEU:HD21	2.02	0.42
1:D:491:LEU:O	1:D:494:THR:OG1	2.23	0.42
1:D:526:ARG:HB2	1:D:527:PRO:HD3	2.01	0.42
1:E:148:ARG:NH2	1:E:298:GLY:HA2	2.35	0.42
1:E:489:ASN:HB3	1:E:493:TYR:CZ	2.55	0.42
1:E:552:ASN:HB2	1:E:584:LEU:HD12	2.01	0.42
1:E:921:ASP:OD1	1:E:953:GLY:HA3	2.19	0.42
1:F:552:ASN:HB2	1:F:584:LEU:HD12	2.02	0.42
1:F:691:ARG:CZ	1:F:715:HIS:HD2	2.32	0.42
1:F:691:ARG:NH2	1:F:739:GLN:OE1	2.52	0.42
1:F:807:GLY:O	1:F:810:TYR:HB2	2.19	0.42
1:G:239:LEU:HB3	1:G:242:GLU:HB2	2.01	0.42
1:G:453:ARG:HG2	1:G:453:ARG:NH1	2.34	0.42
1:G:574:GLU:OE1	1:G:574:GLU:N	2.52	0.42
1:G:617:TYR:CE2	1:G:618:GLU:HB2	2.55	0.42
1:G:797:HIS:HB3	1:G:826:LYS:HD2	2.00	0.42
1:H:136:GLU:OE1	1:H:153:THR:HB	2.19	0.42
1:I:892:VAL:CG1	1:I:917:TRP:HA	2.50	0.42
1:I:896:LEU:CD1	1:I:899:LEU:HD23	2.50	0.42
1:J:157:LEU:HD11	1:J:293:LEU:HD21	2.01	0.42
1:K:518:LEU:HD22	1:K:549:ILE:HG22	2.02	0.42
1:K:693:HIS:HD2	1:K:694:ILE:N	2.18	0.42
1:K:896:LEU:CD1	1:K:899:LEU:HD23	2.50	0.42
1:A:366:PHE:HD2	1:A:446:PHE:HE2	1.68	0.42
1:A:693:HIS:HD2	1:A:694:ILE:N	2.18	0.42
1:A:740:ASN:OD1	1:A:767:ARG:NH1	2.52	0.42
1:A:892:VAL:CG1	1:A:917:TRP:HA	2.50	0.42
1:B:263:ALA:O	1:B:267:GLU:HB2	2.19	0.42
1:B:480:ILE:HD12	1:B:557:CYS:HB2	2.02	0.42
1:B:740:ASN:OD1	1:B:767:ARG:NH1	2.52	0.42
1:B:746:LEU:O	1:B:747:HIS:HB2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:807:GLY:O	1:B:810:TYR:HB2	2.20	0.42
1:B:892:VAL:CG1	1:B:917:TRP:HA	2.50	0.42
1:B:921:ASP:OD1	1:B:953:GLY:HA3	2.19	0.42
1:C:701:ALA:C	1:C:703:ARG:H	2.23	0.42
1:C:896:LEU:CD1	1:C:899:LEU:HD23	2.50	0.42
1:D:693:HIS:HD2	1:D:694:ILE:N	2.18	0.42
1:D:746:LEU:O	1:D:747:HIS:HB2	2.19	0.42
1:D:907:PRO:HA	1:D:936:LEU:HD13	2.02	0.42
1:E:124:ILE:N	1:E:125:ASP:HA	2.34	0.42
1:F:417:ASN:O	1:F:420:VAL:HB	2.19	0.42
1:F:550:ASN:HB3	1:F:553:SER:HB2	2.01	0.42
1:F:574:GLU:OE1	1:F:574:GLU:N	2.52	0.42
1:H:518:LEU:HD22	1:H:549:ILE:HG22	2.02	0.42
1:H:618:GLU:CD	1:H:619:ARG:NH1	2.73	0.42
1:H:701:ALA:C	1:H:703:ARG:H	2.23	0.42
1:H:807:GLY:O	1:H:810:TYR:HB2	2.19	0.42
1:I:306:LYS:HD2	1:I:322:TRP:CZ3	2.55	0.42
1:I:674:LYS:HA	1:I:677:ILE:CG1	2.50	0.42
1:I:740:ASN:OD1	1:I:767:ARG:NH1	2.52	0.42
1:J:162:LYS:H	1:J:293:LEU:HD22	1.84	0.42
1:J:239:LEU:HB3	1:J:242:GLU:HB2	2.01	0.42
1:J:674:LYS:HA	1:J:677:ILE:CG1	2.50	0.42
1:J:691:ARG:NH2	1:J:739:GLN:OE1	2.52	0.42
1:J:693:HIS:HD2	1:J:694:ILE:N	2.18	0.42
1:J:701:ALA:C	1:J:703:ARG:H	2.23	0.42
1:K:306:LYS:HD2	1:K:322:TRP:CZ3	2.55	0.42
1:K:400:GLY:HA2	1:K:405:LYS:O	2.20	0.42
1:K:417:ASN:O	1:K:420:VAL:HB	2.19	0.42
1:K:453:ARG:NH1	1:K:453:ARG:HG2	2.34	0.42
1:A:157:LEU:HD11	1:A:293:LEU:HD21	2.01	0.42
1:B:366:PHE:HD2	1:B:446:PHE:HE2	1.68	0.42
1:B:422:VAL:HG11	1:B:429:LYS:HG2	2.01	0.42
1:B:695:LYS:NZ	1:B:720:GLU:OE2	2.51	0.42
1:C:674:LYS:HA	1:C:677:ILE:CG1	2.50	0.42
1:C:982:ALA:HA	1:C:985:ARG:NH1	2.34	0.42
1:D:740:ASN:OD1	1:D:767:ARG:NH1	2.52	0.42
1:D:896:LEU:CD1	1:D:899:LEU:HD23	2.50	0.42
1:E:422:VAL:HG11	1:E:429:LYS:HG2	2.01	0.42
1:E:550:ASN:HB3	1:E:553:SER:HB2	2.01	0.42
1:E:770:LEU:HD23	1:E:770:LEU:HA	1.74	0.42
1:E:823:GLN:HA	1:E:850:LEU:HA	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:869:GLN:HG3	1:E:898:LYS:HZ3	1.85	0.42
1:E:907:PRO:HA	1:E:936:LEU:HD13	2.02	0.42
1:F:746:LEU:O	1:F:747:HIS:HB2	2.19	0.42
1:G:489:ASN:HB3	1:G:493:TYR:CZ	2.55	0.42
1:G:550:ASN:HB3	1:G:553:SER:HB2	2.01	0.42
1:H:157:LEU:HD11	1:H:293:LEU:HD21	2.01	0.42
1:H:168:GLU:O	1:H:296:GLU:HA	2.20	0.42
1:H:169:GLY:HA3	1:H:297:VAL:HB	2.00	0.42
1:H:334:LEU:HD22	1:H:340:PHE:CD2	2.54	0.42
1:H:617:TYR:CE2	1:H:618:GLU:HB2	2.54	0.42
1:H:674:LYS:HA	1:H:677:ILE:CG1	2.50	0.42
1:I:168:GLU:O	1:I:296:GLU:HA	2.20	0.42
1:I:693:HIS:HD2	1:I:694:ILE:N	2.18	0.42
1:J:400:GLY:HA2	1:J:405:LYS:O	2.20	0.42
1:J:968:VAL:O	1:J:997:LEU:HD12	2.20	0.42
1:K:118:TYR:HA	1:K:119:PRO:HD2	1.76	0.42
1:K:123:ASP:OD1	1:J:289:HIS:NE2	2.52	0.42
1:K:489:ASN:HB3	1:K:493:TYR:CZ	2.55	0.42
1:A:117:PHE:HZ	1:A:176:SER:CB	2.23	0.42
1:A:118:TYR:HA	1:A:119:PRO:HD2	1.77	0.42
1:A:400:GLY:HA2	1:A:405:LYS:O	2.20	0.42
1:A:417:ASN:O	1:A:420:VAL:HB	2.19	0.42
1:B:118:TYR:HB3	1:B:123:ASP:H	1.85	0.42
1:C:157:LEU:HD11	1:C:293:LEU:HD21	2.01	0.42
1:C:263:ALA:O	1:C:267:GLU:HB2	2.19	0.42
1:C:617:TYR:CE2	1:C:618:GLU:HB2	2.55	0.42
1:C:907:PRO:HA	1:C:936:LEU:HD13	2.02	0.42
1:D:128:PHE:CD2	1:D:311:ALA:HB1	2.55	0.42
1:D:168:GLU:O	1:D:296:GLU:HA	2.20	0.42
1:D:417:ASN:O	1:D:420:VAL:HB	2.19	0.42
1:D:618:GLU:CD	1:D:619:ARG:NH1	2.73	0.42
1:D:772:ASP:HA	1:D:800:HIS:O	2.20	0.42
1:D:944:LEU:O	1:D:973:SER:OG	2.37	0.42
1:E:263:ALA:O	1:E:267:GLU:HB2	2.20	0.42
1:F:400:GLY:HA2	1:F:405:LYS:O	2.20	0.42
1:F:618:GLU:CD	1:F:619:ARG:NH1	2.73	0.42
1:F:674:LYS:HA	1:F:677:ILE:CG1	2.50	0.42
1:F:892:VAL:CG1	1:F:917:TRP:HA	2.50	0.42
1:F:968:VAL:O	1:F:997:LEU:HD12	2.20	0.42
1:G:128:PHE:CD2	1:G:311:ALA:HB1	2.55	0.42
1:G:203:ILE:N	1:G:246:LEU:O	2.46	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:370:LEU:HD23	1:G:370:LEU:HA	1.66	0.42
1:G:552:ASN:HB2	1:G:584:LEU:HD12	2.01	0.42
1:G:693:HIS:HD2	1:G:694:ILE:N	2.18	0.42
1:H:306:LYS:HD2	1:H:322:TRP:CZ3	2.55	0.42
1:H:691:ARG:NH2	1:H:739:GLN:OE1	2.52	0.42
1:H:740:ASN:OD1	1:H:767:ARG:NH1	2.52	0.42
1:I:148:ARG:NH2	1:I:298:GLY:HA2	2.35	0.42
1:I:150:GLU:HG3	1:I:152:LEU:HD21	2.01	0.42
1:I:366:PHE:HD2	1:I:446:PHE:HE2	1.68	0.42
1:I:400:GLY:HA2	1:I:405:LYS:O	2.20	0.42
1:I:490:LEU:HA	1:I:493:TYR:CD2	2.54	0.42
1:I:526:ARG:HB2	1:I:527:PRO:HD3	2.01	0.42
1:I:909:LEU:HD12	1:I:909:LEU:HA	1.85	0.42
1:J:118:TYR:HB3	1:J:123:ASP:H	1.85	0.42
1:J:182:ILE:HD12	1:J:182:ILE:HA	1.84	0.42
1:J:695:LYS:NZ	1:J:720:GLU:OE2	2.51	0.42
1:J:807:GLY:O	1:J:810:TYR:HB2	2.19	0.42
1:K:490:LEU:HA	1:K:493:TYR:CD2	2.54	0.42
1:K:869:GLN:HG3	1:K:898:LYS:HZ3	1.85	0.42
1:K:968:VAL:O	1:K:997:LEU:HD12	2.20	0.42
1:A:168:GLU:O	1:A:296:GLU:HA	2.20	0.42
1:A:217:TYR:HD1	1:A:221:LEU:HA	1.83	0.42
1:A:518:LEU:HD22	1:A:549:ILE:HG22	2.02	0.42
1:A:807:GLY:O	1:A:810:TYR:HB2	2.19	0.42
1:A:968:VAL:O	1:A:997:LEU:HD12	2.20	0.42
1:B:128:PHE:CD2	1:B:311:ALA:HB1	2.55	0.42
1:B:148:ARG:NH2	1:B:298:GLY:HA2	2.35	0.42
1:B:400:GLY:HA2	1:B:405:LYS:O	2.20	0.42
1:B:772:ASP:HA	1:B:800:HIS:O	2.20	0.42
1:C:150:GLU:HG3	1:C:152:LEU:HD21	2.02	0.42
1:C:422:VAL:HG11	1:C:429:LYS:HG2	2.01	0.42
1:C:746:LEU:O	1:C:747:HIS:HB2	2.19	0.42
1:D:397:ALA:HB1	1:D:447:GLN:HE21	1.85	0.42
1:D:552:ASN:HB2	1:D:584:LEU:HD12	2.02	0.42
1:D:576:GLU:OE2	1:D:605:CYS:SG	2.72	0.42
1:D:617:TYR:CE2	1:D:618:GLU:HB2	2.54	0.42
1:D:674:LYS:HA	1:D:677:ILE:CG1	2.50	0.42
1:D:968:VAL:O	1:D:997:LEU:HD12	2.20	0.42
1:E:306:LYS:HD2	1:E:322:TRP:CZ3	2.55	0.42
1:E:366:PHE:HD2	1:E:446:PHE:HE2	1.68	0.42
1:E:674:LYS:HA	1:E:677:ILE:CG1	2.50	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:128:PHE:CD2	1:F:311:ALA:HB1	2.55	0.42
1:F:148:ARG:NH2	1:F:298:GLY:HA2	2.35	0.42
1:F:586:ILE:N	1:F:613:LYS:O	2.48	0.42
1:F:663:GLU:OE1	1:F:691:ARG:HD2	2.20	0.42
1:F:756:ILE:H	1:F:756:ILE:HG13	1.66	0.42
1:F:770:LEU:HD23	1:F:770:LEU:HA	1.74	0.42
1:G:417:ASN:O	1:G:420:VAL:HB	2.19	0.42
1:G:422:VAL:HG11	1:G:429:LYS:HG2	2.01	0.42
1:G:674:LYS:HA	1:G:677:ILE:CG1	2.50	0.42
1:G:968:VAL:O	1:G:997:LEU:HD12	2.20	0.42
1:H:162:LYS:H	1:H:293:LEU:HD22	1.85	0.42
1:H:239:LEU:HB3	1:H:242:GLU:HB2	2.01	0.42
1:H:415:SER:C	1:H:417:ASN:N	2.73	0.42
1:H:417:ASN:O	1:H:420:VAL:HB	2.19	0.42
1:H:576:GLU:OE2	1:H:605:CYS:SG	2.72	0.42
1:I:195:LYS:C	1:I:197:PHE:H	2.23	0.42
1:I:968:VAL:O	1:I:997:LEU:HD12	2.20	0.42
1:J:263:ALA:O	1:J:267:GLU:HB2	2.19	0.42
1:J:618:GLU:CD	1:J:619:ARG:NH1	2.73	0.42
1:J:944:LEU:O	1:J:973:SER:OG	2.38	0.42
1:K:128:PHE:CD2	1:K:311:ALA:HB1	2.55	0.41
1:K:320:ARG:NH1	1:K:352:GLN:O	2.41	0.41
1:K:366:PHE:HD2	1:K:446:PHE:HE2	1.68	0.41
1:K:618:GLU:CD	1:K:619:ARG:NH1	2.73	0.41
1:K:749:GLN:CD	1:K:774:ARG:NH1	2.73	0.41
1:K:759:LEU:HD23	1:K:762:LEU:HD12	2.02	0.41
1:K:893:HIS:CB	1:K:919:LEU:HD23	2.50	0.41
1:A:136:GLU:OE1	1:A:153:THR:HB	2.19	0.41
1:A:397:ALA:HB1	1:A:447:GLN:HE21	1.85	0.41
1:A:422:VAL:HG11	1:A:429:LYS:HG2	2.01	0.41
1:A:455:LEU:HD23	1:A:455:LEU:HA	1.69	0.41
1:A:618:GLU:CD	1:A:619:ARG:NH1	2.73	0.41
1:B:613:LYS:HZ2	1:B:663:GLU:HB2	1.84	0.41
1:B:618:GLU:CD	1:B:619:ARG:NH1	2.73	0.41
1:B:693:HIS:HD2	1:B:694:ILE:N	2.18	0.41
1:B:749:GLN:NE2	1:B:774:ARG:HH12	2.19	0.41
1:B:968:VAL:O	1:B:997:LEU:HD12	2.20	0.41
1:C:118:TYR:HB3	1:C:123:ASP:H	1.85	0.41
1:C:366:PHE:HD2	1:C:446:PHE:HE2	1.68	0.41
1:D:366:PHE:HD2	1:D:446:PHE:HE2	1.68	0.41
1:D:550:ASN:HB3	1:D:553:SER:HB2	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:807:GLY:O	1:D:810:TYR:HB2	2.19	0.41
1:E:892:VAL:CG1	1:E:917:TRP:HA	2.50	0.41
1:F:396:LEU:HD23	1:F:396:LEU:HA	1.81	0.41
1:F:896:LEU:CD1	1:F:899:LEU:HD23	2.50	0.41
1:F:934:ASN:HA	1:F:935:PRO:HD3	1.78	0.41
1:G:618:GLU:CD	1:G:619:ARG:NH1	2.73	0.41
1:G:772:ASP:HA	1:G:800:HIS:O	2.20	0.41
1:G:892:VAL:CG1	1:G:917:TRP:HA	2.50	0.41
1:H:118:TYR:HB3	1:H:123:ASP:H	1.85	0.41
1:H:400:GLY:HA2	1:H:405:LYS:O	2.20	0.41
1:H:537:LEU:HD12	1:H:537:LEU:O	2.21	0.41
1:H:663:GLU:OE1	1:H:691:ARG:HD2	2.20	0.41
1:H:968:VAL:O	1:H:997:LEU:HD12	2.20	0.41
1:I:136:GLU:OE1	1:I:153:THR:HB	2.19	0.41
1:I:263:ALA:O	1:I:267:GLU:HB2	2.20	0.41
1:J:613:LYS:HZ2	1:J:663:GLU:HB2	1.84	0.41
1:J:772:ASP:HA	1:J:800:HIS:O	2.20	0.41
1:K:263:ALA:O	1:K:267:GLU:HB2	2.19	0.41
1:K:659:PHE:O	1:K:687:ALA:HA	2.21	0.41
1:A:907:PRO:HA	1:A:936:LEU:HD13	2.02	0.41
1:B:124:ILE:N	1:B:125:ASP:HA	2.34	0.41
1:B:203:ILE:N	1:B:246:LEU:O	2.46	0.41
1:B:909:LEU:HA	1:B:909:LEU:HD12	1.85	0.41
1:C:136:GLU:OE1	1:C:153:THR:HB	2.19	0.41
1:C:168:GLU:O	1:C:296:GLU:HA	2.20	0.41
1:C:400:GLY:HA2	1:C:405:LYS:O	2.20	0.41
1:C:480:ILE:HD12	1:C:557:CYS:HB2	2.02	0.41
1:C:772:ASP:HA	1:C:800:HIS:O	2.20	0.41
1:C:813:LYS:HD2	1:C:813:LYS:HA	1.78	0.41
1:C:893:HIS:CB	1:C:919:LEU:HD23	2.50	0.41
1:D:934:ASN:HA	1:D:935:PRO:HD3	1.78	0.41
1:D:982:ALA:HA	1:D:985:ARG:NH1	2.34	0.41
1:E:118:TYR:HA	1:E:119:PRO:HD2	1.76	0.41
1:E:574:GLU:OE1	1:E:574:GLU:N	2.52	0.41
1:E:893:HIS:CB	1:E:919:LEU:HD23	2.50	0.41
1:F:306:LYS:HD2	1:F:322:TRP:CZ3	2.55	0.41
1:F:418:GLU:C	1:F:420:VAL:N	2.74	0.41
1:F:489:ASN:HB3	1:F:493:TYR:CZ	2.55	0.41
1:F:659:PHE:O	1:F:687:ALA:HA	2.21	0.41
1:F:860:LEU:HD12	1:F:864:GLY:CA	2.48	0.41
1:G:168:GLU:O	1:G:296:GLU:HA	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:518:LEU:HD22	1:G:549:ILE:HG22	2.02	0.41
1:G:869:GLN:HG3	1:G:898:LYS:HZ3	1.85	0.41
1:H:421:LEU:O	1:H:425:GLY:N	2.42	0.41
1:H:489:ASN:HB3	1:H:493:TYR:CZ	2.55	0.41
1:H:526:ARG:HB2	1:H:527:PRO:HD3	2.01	0.41
1:H:749:GLN:NE2	1:H:774:ARG:HH12	2.19	0.41
1:I:118:TYR:HB3	1:I:123:ASP:H	1.85	0.41
1:I:239:LEU:HB3	1:I:242:GLU:HB2	2.01	0.41
1:I:659:PHE:O	1:I:687:ALA:HA	2.21	0.41
1:I:869:GLN:HG3	1:I:898:LYS:HZ3	1.85	0.41
1:I:907:PRO:HA	1:I:936:LEU:HD13	2.02	0.41
1:J:168:GLU:O	1:J:296:GLU:HA	2.20	0.41
1:J:366:PHE:HD2	1:J:446:PHE:HE2	1.68	0.41
1:J:480:ILE:HD12	1:J:557:CYS:HB2	2.02	0.41
1:J:663:GLU:OE1	1:J:691:ARG:HD2	2.20	0.41
1:J:759:LEU:HD23	1:J:762:LEU:HD12	2.02	0.41
1:J:844:LEU:HD23	1:J:874:ARG:HB3	2.02	0.41
1:J:892:VAL:CG1	1:J:917:TRP:HA	2.50	0.41
1:J:896:LEU:CD1	1:J:899:LEU:HD23	2.50	0.41
1:K:210:GLY:HA2	1:K:211:GLY:C	2.41	0.41
1:K:662:LEU:HD23	1:K:662:LEU:HA	1.82	0.41
1:K:772:ASP:HA	1:K:800:HIS:O	2.20	0.41
1:A:148:ARG:NH2	1:A:298:GLY:HA2	2.35	0.41
1:A:759:LEU:HD23	1:A:762:LEU:HD12	2.02	0.41
1:A:844:LEU:HD23	1:A:874:ARG:HB3	2.02	0.41
1:A:956:TYR:O	1:A:959:ASN:HB2	2.21	0.41
1:B:136:GLU:OE1	1:B:153:THR:HB	2.19	0.41
1:B:322:TRP:O	1:B:326:GLN:HG2	2.21	0.41
1:B:617:TYR:CE2	1:B:618:GLU:HB2	2.54	0.41
1:B:659:PHE:O	1:B:687:ALA:HA	2.21	0.41
1:B:893:HIS:CB	1:B:919:LEU:HD23	2.50	0.41
1:C:306:LYS:HD2	1:C:322:TRP:CZ3	2.55	0.41
1:C:659:PHE:O	1:C:687:ALA:HA	2.21	0.41
1:C:869:GLN:HG3	1:C:898:LYS:HZ3	1.85	0.41
1:C:968:VAL:O	1:C:997:LEU:HD12	2.20	0.41
1:D:400:GLY:HA2	1:D:405:LYS:O	2.20	0.41
1:E:118:TYR:HB3	1:E:123:ASP:H	1.85	0.41
1:E:417:ASN:O	1:E:420:VAL:HB	2.19	0.41
1:E:526:ARG:HB2	1:E:527:PRO:HD3	2.01	0.41
1:F:168:GLU:O	1:F:296:GLU:HA	2.20	0.41
1:F:210:GLY:HA2	1:F:211:GLY:C	2.41	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:397:ALA:HB1	1:F:447:GLN:HE21	1.85	0.41
1:F:453:ARG:NH1	1:F:453:ARG:HG2	2.34	0.41
1:F:537:LEU:HD12	1:F:537:LEU:O	2.21	0.41
1:G:148:ARG:NH2	1:G:298:GLY:HA2	2.35	0.41
1:G:263:ALA:O	1:G:267:GLU:HB2	2.19	0.41
1:G:366:PHE:HD2	1:G:446:PHE:HE2	1.68	0.41
1:G:400:GLY:HA2	1:G:405:LYS:O	2.20	0.41
1:G:746:LEU:O	1:G:747:HIS:HB2	2.19	0.41
1:G:985:ARG:HE	1:H:685:SER:CB	2.32	0.41
1:H:128:PHE:CD2	1:H:311:ALA:HB1	2.55	0.41
1:H:203:ILE:N	1:H:246:LEU:O	2.46	0.41
1:H:366:PHE:HD2	1:H:446:PHE:HE2	1.68	0.41
1:H:552:ASN:HB2	1:H:584:LEU:HD12	2.01	0.41
1:H:844:LEU:HD23	1:H:874:ARG:HB3	2.02	0.41
1:I:227:ILE:H	1:I:227:ILE:HG13	1.65	0.41
1:I:480:ILE:HD12	1:I:557:CYS:HB2	2.02	0.41
1:J:128:PHE:CD2	1:J:311:ALA:HB1	2.55	0.41
1:J:148:ARG:NH2	1:J:298:GLY:HA2	2.35	0.41
1:K:182:ILE:HD12	1:K:182:ILE:HA	1.84	0.41
1:K:749:GLN:NE2	1:K:774:ARG:HH12	2.19	0.41
1:K:749:GLN:NE2	1:K:774:ARG:NH1	2.69	0.41
1:K:787:LEU:HD12	1:K:814:SER:HB3	2.03	0.41
1:A:210:GLY:HA2	1:A:211:GLY:C	2.41	0.41
1:A:263:ALA:O	1:A:267:GLU:HB2	2.19	0.41
1:A:749:GLN:NE2	1:A:774:ARG:HH12	2.19	0.41
1:A:893:HIS:CB	1:A:919:LEU:HD23	2.50	0.41
1:B:490:LEU:HA	1:B:493:TYR:CD2	2.54	0.41
1:C:250:TYR:CG	1:C:279:THR:HA	2.54	0.41
1:C:944:LEU:O	1:C:973:SER:OG	2.37	0.41
1:D:869:GLN:HG3	1:D:898:LYS:HZ3	1.85	0.41
1:E:168:GLU:O	1:E:296:GLU:HA	2.20	0.41
1:E:701:ALA:C	1:E:703:ARG:H	2.23	0.41
1:E:985:ARG:HE	1:F:685:SER:CB	2.34	0.41
1:F:263:ALA:O	1:F:267:GLU:HB2	2.19	0.41
1:F:366:PHE:HD2	1:F:446:PHE:HE2	1.68	0.41
1:F:480:ILE:HD12	1:F:557:CYS:HB2	2.02	0.41
1:G:659:PHE:O	1:G:687:ALA:HA	2.21	0.41
1:G:662:LEU:HA	1:G:662:LEU:HD23	1.82	0.41
1:G:749:GLN:NE2	1:G:774:ARG:HH12	2.19	0.41
1:H:263:ALA:O	1:H:267:GLU:HB2	2.19	0.41
1:H:398:LEU:HD23	1:H:398:LEU:HA	1.78	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:H:907:PRO:HA	1:H:936:LEU:HD13	2.02	0.41
1:I:657:GLN:HA	1:I:658:GLU:HA	1.75	0.41
1:J:150:GLU:HG3	1:J:152:LEU:HD21	2.02	0.41
1:J:210:GLY:HA2	1:J:211:GLY:C	2.41	0.41
1:J:537:LEU:O	1:J:537:LEU:HD12	2.21	0.41
1:K:168:GLU:O	1:K:296:GLU:HA	2.20	0.41
1:K:418:GLU:C	1:K:420:VAL:H	2.24	0.41
1:K:534:ILE:HD12	1:K:534:ILE:HA	1.92	0.41
1:K:742:SER:OG	1:K:769:ILE:O	2.29	0.41
1:A:128:PHE:CD2	1:A:311:ALA:HB1	2.55	0.41
1:A:552:ASN:HB2	1:A:584:LEU:HD12	2.01	0.41
1:B:118:TYR:HA	1:B:119:PRO:HD2	1.76	0.41
1:B:150:GLU:HG3	1:B:152:LEU:HD21	2.02	0.41
1:B:518:LEU:HD22	1:B:549:ILE:HG22	2.02	0.41
1:B:787:LEU:HD12	1:B:814:SER:HB3	2.03	0.41
1:B:844:LEU:HD23	1:B:874:ARG:HB3	2.02	0.41
1:C:264:LEU:H	1:C:264:LEU:HG	1.68	0.41
1:C:552:ASN:HB2	1:C:584:LEU:HD12	2.02	0.41
1:C:749:GLN:NE2	1:C:774:ARG:HH12	2.19	0.41
1:C:956:TYR:O	1:C:959:ASN:HB2	2.21	0.41
1:D:480:ILE:HD12	1:D:557:CYS:HB2	2.02	0.41
1:D:663:GLU:OE1	1:D:691:ARG:HD2	2.20	0.41
1:E:210:GLY:HA2	1:E:211:GLY:C	2.41	0.41
1:E:400:GLY:HA2	1:E:405:LYS:O	2.20	0.41
1:E:418:GLU:C	1:E:420:VAL:N	2.74	0.41
1:F:118:TYR:HB3	1:F:123:ASP:H	1.85	0.41
1:F:289:HIS:HE1	1:G:119:PRO:HA	1.82	0.41
1:F:559:ILE:HG12	1:F:598:PHE:HB2	2.03	0.41
1:G:118:TYR:HB3	1:G:123:ASP:H	1.85	0.41
1:G:210:GLY:HA2	1:G:211:GLY:C	2.41	0.41
1:G:418:GLU:C	1:G:420:VAL:N	2.74	0.41
1:G:526:ARG:HB2	1:G:527:PRO:HD3	2.01	0.41
1:G:987:LEU:HD12	1:G:987:LEU:HA	2.00	0.41
1:H:693:HIS:HD2	1:H:694:ILE:N	2.18	0.41
1:H:749:GLN:NE2	1:H:774:ARG:NH1	2.69	0.41
1:I:118:TYR:HA	1:I:119:PRO:HD2	1.76	0.41
1:I:128:PHE:CD2	1:I:311:ALA:HB1	2.55	0.41
1:I:162:LYS:H	1:I:293:LEU:HD22	1.84	0.41
1:I:489:ASN:HB3	1:I:493:TYR:CZ	2.55	0.41
1:I:663:GLU:OE1	1:I:691:ARG:HD2	2.20	0.41
1:I:893:HIS:CB	1:I:919:LEU:HD23	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:J:184:MET:O	1:J:188:SER:OG	2.28	0.41
1:J:397:ALA:HB1	1:J:447:GLN:HE21	1.85	0.41
1:J:418:GLU:C	1:J:420:VAL:H	2.24	0.41
1:K:118:TYR:HB3	1:K:123:ASP:H	1.85	0.41
1:K:197:PHE:CE1	1:K:274:MET:HB2	2.56	0.41
1:K:239:LEU:HB3	1:K:242:GLU:HB2	2.01	0.41
1:K:844:LEU:HD23	1:K:874:ARG:HB3	2.02	0.41
1:K:944:LEU:O	1:K:973:SER:OG	2.37	0.41
1:A:322:TRP:O	1:A:326:GLN:HG2	2.21	0.41
1:A:772:ASP:HA	1:A:800:HIS:O	2.20	0.41
1:B:559:ILE:HG12	1:B:598:PHE:HB2	2.03	0.41
1:C:124:ILE:N	1:C:125:ASP:HA	2.34	0.41
1:C:418:GLU:C	1:C:420:VAL:N	2.74	0.41
1:C:559:ILE:HG12	1:C:598:PHE:HB2	2.03	0.41
1:C:663:GLU:OE1	1:C:691:ARG:HD2	2.20	0.41
1:D:909:LEU:HA	1:D:909:LEU:HD12	1.85	0.41
1:E:559:ILE:HG12	1:E:598:PHE:HB2	2.03	0.41
1:E:956:TYR:O	1:E:959:ASN:HB2	2.21	0.41
1:F:329:ARG:NH1	1:F:332:ARG:HD3	2.35	0.41
1:F:772:ASP:HA	1:F:800:HIS:O	2.20	0.41
1:G:329:ARG:NH1	1:G:332:ARG:HD3	2.35	0.41
1:G:823:GLN:HA	1:G:850:LEU:HA	2.01	0.41
1:H:329:ARG:HD3	1:H:329:ARG:HA	1.77	0.41
1:H:397:ALA:HB1	1:H:447:GLN:HE21	1.85	0.41
1:H:534:ILE:CG2	1:H:613:LYS:HZ1	2.34	0.41
1:I:289:HIS:HE1	1:J:119:PRO:HA	1.81	0.41
1:I:322:TRP:O	1:I:326:GLN:HG2	2.21	0.41
1:I:749:GLN:NE2	1:I:774:ARG:HH12	2.19	0.41
1:I:772:ASP:HA	1:I:800:HIS:O	2.20	0.41
1:I:844:LEU:HD23	1:I:874:ARG:HB3	2.02	0.41
1:J:136:GLU:OE1	1:J:153:THR:HB	2.19	0.41
1:J:197:PHE:CE1	1:J:274:MET:HB2	2.56	0.41
1:J:418:GLU:C	1:J:420:VAL:N	2.74	0.41
1:J:893:HIS:CB	1:J:919:LEU:HD23	2.50	0.41
1:K:108:LEU:HA	1:K:108:LEU:HD23	1.84	0.41
1:K:227:ILE:H	1:K:227:ILE:HG13	1.65	0.41
1:K:422:VAL:HG11	1:K:429:LYS:HG2	2.01	0.41
1:A:663:GLU:OE1	1:A:691:ARG:HD2	2.20	0.41
1:A:987:LEU:HD12	1:A:987:LEU:HA	2.00	0.41
1:B:552:ASN:HB2	1:B:584:LEU:HD12	2.02	0.41
1:B:586:ILE:N	1:B:613:LYS:O	2.48	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:B:985:ARG:HE	1:C:685:SER:CB	2.33	0.41
1:C:128:PHE:CD2	1:C:311:ALA:HB1	2.55	0.41
1:C:693:HIS:HD2	1:C:694:ILE:N	2.18	0.41
1:C:695:LYS:NZ	1:C:720:GLU:OE2	2.51	0.41
1:D:289:HIS:HE1	1:E:119:PRO:HA	1.82	0.41
1:D:787:LEU:HD12	1:D:814:SER:HB3	2.03	0.41
1:E:617:TYR:CE2	1:E:618:GLU:HB2	2.55	0.41
1:E:791:LYS:HE3	1:E:819:SER:O	2.21	0.41
1:F:322:TRP:O	1:F:326:GLN:HG2	2.21	0.41
1:F:518:LEU:HD22	1:F:549:ILE:HG22	2.02	0.41
1:F:526:ARG:HB2	1:F:527:PRO:HD3	2.01	0.41
1:F:791:LYS:HE3	1:F:819:SER:O	2.21	0.41
1:F:907:PRO:HA	1:F:936:LEU:HD13	2.02	0.41
1:G:559:ILE:HG12	1:G:598:PHE:HB2	2.03	0.41
1:G:791:LYS:HE3	1:G:819:SER:O	2.21	0.41
1:H:210:GLY:HA2	1:H:211:GLY:C	2.41	0.41
1:H:869:GLN:HG3	1:H:898:LYS:HZ3	1.86	0.41
1:I:203:ILE:N	1:I:246:LEU:O	2.46	0.41
1:I:759:LEU:HD23	1:I:762:LEU:HD12	2.02	0.41
1:I:787:LEU:HD12	1:I:814:SER:HB3	2.03	0.41
1:J:907:PRO:HA	1:J:936:LEU:HD13	2.02	0.41
1:K:150:GLU:HG3	1:K:152:LEU:HD21	2.02	0.41
1:K:759:LEU:HD11	1:K:783:LEU:HD12	2.03	0.41
1:A:150:GLU:HG3	1:A:152:LEU:HD21	2.02	0.41
1:A:306:LYS:HD2	1:A:322:TRP:CZ3	2.55	0.41
1:A:787:LEU:HD12	1:A:814:SER:HB3	2.03	0.41
1:A:896:LEU:CD1	1:A:899:LEU:HD23	2.50	0.41
1:B:168:GLU:O	1:B:296:GLU:HA	2.20	0.41
1:B:759:LEU:HD23	1:B:762:LEU:HD12	2.02	0.41
1:C:618:GLU:CD	1:C:619:ARG:NH1	2.73	0.41
1:C:787:LEU:HD12	1:C:814:SER:HB3	2.03	0.41
1:C:934:ASN:HA	1:C:935:PRO:HD3	1.78	0.41
1:D:124:ILE:N	1:D:125:ASP:HA	2.34	0.41
1:D:210:GLY:HA2	1:D:211:GLY:C	2.41	0.41
1:D:534:ILE:HD12	1:D:534:ILE:HA	1.92	0.41
1:E:128:PHE:CD2	1:E:311:ALA:HB1	2.55	0.41
1:E:663:GLU:OE1	1:E:691:ARG:HD2	2.20	0.41
1:F:844:LEU:HD23	1:F:874:ARG:HB3	2.02	0.41
1:F:893:HIS:CB	1:F:919:LEU:HD23	2.50	0.41
1:F:915:LYS:HE3	1:F:915:LYS:HB2	1.70	0.41
1:F:987:LEU:HD12	1:F:987:LEU:HA	2.00	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:G:415:SER:C	1:G:417:ASN:N	2.73	0.41
1:G:663:GLU:OE1	1:G:691:ARG:HD2	2.20	0.41
1:G:749:GLN:NE2	1:G:774:ARG:NH1	2.69	0.41
1:H:329:ARG:NH1	1:H:332:ARG:HD3	2.35	0.41
1:H:772:ASP:HA	1:H:800:HIS:O	2.20	0.41
1:I:197:PHE:CE1	1:I:274:MET:HB2	2.56	0.41
1:I:210:GLY:HA2	1:I:211:GLY:C	2.41	0.41
1:I:422:VAL:HG11	1:I:429:LYS:HG2	2.01	0.41
1:I:759:LEU:HD11	1:I:783:LEU:HD12	2.03	0.41
1:K:418:GLU:C	1:K:420:VAL:N	2.74	0.41
1:K:552:ASN:HB2	1:K:584:LEU:HD12	2.02	0.41
1:K:663:GLU:OE1	1:K:691:ARG:HD2	2.20	0.41
1:K:955:LEU:CD1	1:K:986:LYS:HG3	2.44	0.41
1:A:108:LEU:HD23	1:A:108:LEU:HA	1.84	0.41
1:A:118:TYR:HB3	1:A:123:ASP:H	1.85	0.41
1:A:197:PHE:CE1	1:A:274:MET:HB2	2.56	0.41
1:A:203:ILE:N	1:A:246:LEU:O	2.46	0.41
1:A:406:PHE:HB2	1:A:444:LYS:HD2	2.03	0.41
1:A:418:GLU:C	1:A:420:VAL:H	2.24	0.41
1:A:418:GLU:C	1:A:420:VAL:N	2.74	0.41
1:A:559:ILE:HG12	1:A:598:PHE:HB2	2.03	0.41
1:A:701:ALA:C	1:A:703:ARG:H	2.23	0.41
1:A:749:GLN:NE2	1:A:774:ARG:NH1	2.69	0.41
1:A:869:GLN:HG3	1:A:898:LYS:HZ3	1.86	0.41
1:B:210:GLY:HA2	1:B:211:GLY:C	2.41	0.41
1:B:418:GLU:C	1:B:420:VAL:N	2.74	0.41
1:B:759:LEU:HD11	1:B:783:LEU:HD12	2.03	0.41
1:B:791:LYS:HE3	1:B:819:SER:O	2.21	0.41
1:B:901:LYS:HA	1:B:901:LYS:HD2	1.95	0.41
1:C:322:TRP:O	1:C:326:GLN:HG2	2.21	0.41
1:C:657:GLN:HA	1:C:658:GLU:HA	1.75	0.41
1:C:759:LEU:HD23	1:C:762:LEU:HD12	2.02	0.41
1:C:759:LEU:HD11	1:C:783:LEU:HD12	2.03	0.41
1:C:791:LYS:HE3	1:C:819:SER:O	2.21	0.41
1:C:844:LEU:HD23	1:C:874:ARG:HB3	2.02	0.41
1:C:987:LEU:HD12	1:C:987:LEU:HA	2.00	0.41
1:D:118:TYR:HB3	1:D:123:ASP:H	1.85	0.41
1:D:182:ILE:HD12	1:D:182:ILE:HA	1.83	0.41
1:D:574:GLU:OE1	1:D:574:GLU:N	2.52	0.41
1:D:701:ALA:C	1:D:703:ARG:H	2.23	0.41
1:D:770:LEU:HD23	1:D:770:LEU:HA	1.74	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:D:791:LYS:HE3	1:D:819:SER:O	2.21	0.41
1:D:844:LEU:HD23	1:D:874:ARG:HB3	2.03	0.41
1:D:893:HIS:CB	1:D:919:LEU:HD23	2.50	0.41
1:D:986:LYS:O	1:D:990:VAL:HG23	2.21	0.41
1:E:329:ARG:NH1	1:E:332:ARG:HD3	2.35	0.41
1:E:455:LEU:HD23	1:E:455:LEU:HA	1.69	0.41
1:E:518:LEU:HD22	1:E:549:ILE:HG22	2.02	0.41
1:E:659:PHE:O	1:E:687:ALA:HA	2.21	0.41
1:E:759:LEU:HD11	1:E:783:LEU:HD12	2.03	0.41
1:E:772:ASP:HA	1:E:800:HIS:O	2.20	0.41
1:E:787:LEU:HD12	1:E:814:SER:HB3	2.03	0.41
1:F:986:LYS:O	1:F:990:VAL:HG23	2.21	0.41
1:G:320:ARG:HD3	1:G:353:GLU:HB2	2.03	0.41
1:G:701:ALA:C	1:G:703:ARG:H	2.23	0.41
1:G:934:ASN:HA	1:G:935:PRO:HD3	1.78	0.41
1:G:956:TYR:O	1:G:959:ASN:HB2	2.21	0.41
1:H:197:PHE:CE1	1:H:274:MET:HB2	2.56	0.41
1:H:480:ILE:HD12	1:H:557:CYS:HB2	2.02	0.41
1:H:559:ILE:HG12	1:H:598:PHE:HB2	2.03	0.41
1:H:756:ILE:H	1:H:756:ILE:HG13	1.66	0.41
1:H:892:VAL:CG1	1:H:917:TRP:HA	2.50	0.41
1:H:893:HIS:CB	1:H:919:LEU:HD23	2.50	0.41
1:I:320:ARG:HD3	1:I:353:GLU:HB2	2.03	0.41
1:I:418:GLU:C	1:I:420:VAL:H	2.24	0.41
1:I:537:LEU:HD12	1:I:537:LEU:O	2.21	0.41
1:I:552:ASN:HB2	1:I:584:LEU:HD12	2.02	0.41
1:I:618:GLU:CD	1:I:619:ARG:NH1	2.73	0.41
1:I:695:LYS:NZ	1:I:720:GLU:OE2	2.51	0.41
1:J:195:LYS:C	1:J:197:PHE:H	2.23	0.41
1:J:203:ILE:N	1:J:246:LEU:O	2.46	0.41
1:J:306:LYS:HD2	1:J:322:TRP:CZ3	2.55	0.41
1:J:749:GLN:NE2	1:J:774:ARG:HH12	2.19	0.41
1:J:749:GLN:NE2	1:J:774:ARG:NH1	2.69	0.41
1:J:770:LEU:HA	1:J:770:LEU:HD23	1.74	0.41
1:J:956:TYR:O	1:J:959:ASN:HB2	2.21	0.41
1:K:203:ILE:N	1:K:246:LEU:O	2.46	0.41
1:K:312:VAL:HA	1:J:145:ARG:HG2	2.02	0.41
1:K:320:ARG:HD3	1:K:353:GLU:HB2	2.03	0.41
1:K:907:PRO:HA	1:K:936:LEU:HD13	2.02	0.41
1:A:301:THR:HG22	1:A:303:ASP:H	1.86	0.41
1:A:537:LEU:HD12	1:A:537:LEU:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:934:ASN:HA	1:A:935:PRO:HD3	1.78	0.41
1:B:164:PRO:HD2	1:B:291:GLY:HA2	2.03	0.41
1:B:986:LYS:O	1:B:990:VAL:HG23	2.21	0.41
1:C:491:LEU:O	1:C:494:THR:OG1	2.23	0.41
1:C:518:LEU:HD22	1:C:549:ILE:HG22	2.02	0.41
1:D:418:GLU:C	1:D:420:VAL:H	2.24	0.41
1:D:518:LEU:HD22	1:D:549:ILE:HG22	2.02	0.41
1:D:537:LEU:HD12	1:D:537:LEU:O	2.21	0.41
1:D:559:ILE:HG12	1:D:598:PHE:HB2	2.03	0.41
1:D:956:TYR:O	1:D:959:ASN:HB2	2.21	0.41
1:E:480:ILE:HD12	1:E:557:CYS:HB2	2.02	0.41
1:G:759:LEU:HD11	1:G:783:LEU:HD12	2.03	0.41
1:G:787:LEU:HD12	1:G:814:SER:HB3	2.03	0.41
1:H:148:ARG:NH2	1:H:298:GLY:HA2	2.35	0.41
1:H:322:TRP:O	1:H:326:GLN:HG2	2.21	0.41
1:H:418:GLU:C	1:H:420:VAL:N	2.74	0.41
1:H:759:LEU:HD23	1:H:762:LEU:HD12	2.02	0.41
1:H:985:ARG:HE	1:I:685:SER:CB	2.34	0.41
1:I:559:ILE:HG12	1:I:598:PHE:HB2	2.03	0.41
1:J:320:ARG:HD3	1:J:353:GLU:HB2	2.03	0.41
1:J:322:TRP:O	1:J:326:GLN:HG2	2.21	0.41
1:J:552:ASN:HB2	1:J:584:LEU:HD12	2.01	0.41
1:J:604:ASN:C	1:J:606:ALA:H	2.25	0.41
1:J:787:LEU:HD12	1:J:814:SER:HB3	2.03	0.41
1:K:301:THR:HG22	1:K:303:ASP:H	1.87	0.40
1:K:322:TRP:O	1:K:326:GLN:HG2	2.21	0.40
1:K:406:PHE:HB2	1:K:444:LYS:HD2	2.03	0.40
1:A:320:ARG:HD3	1:A:353:GLU:HB2	2.03	0.40
1:A:386:PHE:O	1:A:389:SER:OG	2.26	0.40
1:A:860:LEU:HD12	1:A:864:GLY:CA	2.49	0.40
1:A:986:LYS:O	1:A:990:VAL:HG23	2.21	0.40
1:B:329:ARG:HD3	1:B:329:ARG:HA	1.77	0.40
1:C:164:PRO:HD2	1:C:291:GLY:HA2	2.03	0.40
1:C:458:LEU:O	1:C:461:SER:OG	2.26	0.40
1:D:418:GLU:C	1:D:420:VAL:N	2.74	0.40
1:D:659:PHE:O	1:D:687:ALA:HA	2.21	0.40
1:D:749:GLN:NE2	1:D:774:ARG:HH12	2.19	0.40
1:E:322:TRP:O	1:E:326:GLN:HG2	2.21	0.40
1:E:418:GLU:C	1:E:420:VAL:H	2.24	0.40
1:E:618:GLU:CD	1:E:619:ARG:NH1	2.73	0.40
1:F:320:ARG:HD3	1:F:353:GLU:HB2	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:F:749:GLN:NE2	1:F:774:ARG:HH12	2.19	0.40
1:F:813:LYS:HD2	1:F:813:LYS:HA	1.78	0.40
1:F:868:LEU:HD11	1:F:917:TRP:HZ2	1.87	0.40
1:G:537:LEU:O	1:G:537:LEU:HD12	2.21	0.40
1:G:907:PRO:HA	1:G:936:LEU:HD13	2.02	0.40
1:H:320:ARG:HD3	1:H:353:GLU:HB2	2.04	0.40
1:H:659:PHE:O	1:H:687:ALA:HA	2.21	0.40
1:H:791:LYS:HE3	1:H:819:SER:O	2.21	0.40
1:I:537:LEU:HD22	1:I:742:SER:HB2	2.04	0.40
1:J:791:LYS:HE3	1:J:819:SER:O	2.21	0.40
1:J:869:GLN:HG3	1:J:898:LYS:HZ3	1.86	0.40
1:K:662:LEU:HB2	1:K:687:ALA:HB2	2.03	0.40
1:A:164:PRO:HD2	1:A:291:GLY:HA2	2.04	0.40
1:A:393:CYS:HB3	1:A:418:GLU:OE1	2.21	0.40
1:A:537:LEU:HD22	1:A:742:SER:HB2	2.04	0.40
1:A:586:ILE:N	1:A:613:LYS:O	2.48	0.40
1:B:301:THR:HG22	1:B:303:ASP:H	1.87	0.40
1:B:320:ARG:HD3	1:B:353:GLU:HB2	2.03	0.40
1:B:537:LEU:O	1:B:537:LEU:HD12	2.21	0.40
1:B:537:LEU:HD22	1:B:742:SER:HB2	2.04	0.40
1:C:393:CYS:HB3	1:C:418:GLU:OE1	2.21	0.40
1:C:749:GLN:NE2	1:C:774:ARG:NH1	2.69	0.40
1:F:182:ILE:HD12	1:F:182:ILE:HA	1.83	0.40
1:F:398:LEU:HD22	1:F:402:PHE:HE2	1.83	0.40
1:F:701:ALA:C	1:F:703:ARG:H	2.23	0.40
1:G:331:LEU:HD23	1:G:334:LEU:HD11	2.04	0.40
1:G:844:LEU:HD23	1:G:874:ARG:HB3	2.02	0.40
1:H:534:ILE:HD12	1:H:534:ILE:HA	1.92	0.40
1:I:182:ILE:HD12	1:I:182:ILE:HA	1.83	0.40
1:I:329:ARG:NH1	1:I:332:ARG:HD3	2.35	0.40
1:I:749:GLN:NE2	1:I:774:ARG:NH1	2.69	0.40
1:I:956:TYR:O	1:I:959:ASN:HB2	2.21	0.40
1:I:986:LYS:O	1:I:990:VAL:HG23	2.21	0.40
1:J:301:THR:HG22	1:J:303:ASP:H	1.87	0.40
1:J:662:LEU:HB2	1:J:687:ALA:HB2	2.03	0.40
1:K:140:TRP:N	1:K:296:GLU:O	2.53	0.40
1:K:552:ASN:HB2	1:K:584:LEU:CD1	2.52	0.40
1:K:559:ILE:HG12	1:K:598:PHE:HB2	2.03	0.40
1:K:716:THR:HG23	1:K:740:ASN:O	2.22	0.40
1:K:987:LEU:HD12	1:K:987:LEU:HA	2.00	0.40
1:K:995:THR:OG1	1:K:996:LEU:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:534:ILE:HG22	1:A:613:LYS:HZ1	1.87	0.40
1:B:406:PHE:HB2	1:B:444:LYS:HD2	2.03	0.40
1:B:869:GLN:HG3	1:B:898:LYS:HZ3	1.86	0.40
1:B:944:LEU:O	1:B:973:SER:OG	2.38	0.40
1:B:956:TYR:O	1:B:959:ASN:HB2	2.21	0.40
1:D:456:SER:HB3	1:D:497:SER:CB	2.52	0.40
1:D:749:GLN:NE2	1:D:774:ARG:NH1	2.69	0.40
1:D:759:LEU:HD11	1:D:783:LEU:HD12	2.03	0.40
1:D:759:LEU:HD23	1:D:762:LEU:HD12	2.02	0.40
1:D:982:ALA:O	1:D:986:LYS:HG2	2.22	0.40
1:E:612:VAL:HG23	1:E:659:PHE:CZ	2.57	0.40
1:E:968:VAL:O	1:E:997:LEU:HD12	2.20	0.40
1:E:986:LYS:O	1:E:990:VAL:HG23	2.21	0.40
1:F:320:ARG:NH1	1:F:352:GLN:O	2.41	0.40
1:F:956:TYR:O	1:F:959:ASN:HB2	2.21	0.40
1:G:393:CYS:HB3	1:G:418:GLU:OE1	2.21	0.40
1:G:421:LEU:O	1:G:425:GLY:N	2.42	0.40
1:H:393:CYS:HB3	1:H:418:GLU:OE1	2.21	0.40
1:H:868:LEU:HD11	1:H:917:TRP:HZ2	1.87	0.40
1:I:301:THR:HG22	1:I:303:ASP:H	1.87	0.40
1:I:331:LEU:HD23	1:I:334:LEU:HD11	2.04	0.40
1:I:574:GLU:OE1	1:I:574:GLU:N	2.52	0.40
1:I:995:THR:OG1	1:I:996:LEU:N	2.55	0.40
1:J:534:ILE:N	1:J:693:HIS:HB2	2.37	0.40
1:J:552:ASN:HB2	1:J:584:LEU:CD1	2.52	0.40
1:J:559:ILE:HG12	1:J:598:PHE:HB2	2.03	0.40
1:J:574:GLU:OE1	1:J:574:GLU:N	2.52	0.40
1:J:612:VAL:HG23	1:J:659:PHE:CZ	2.57	0.40
1:J:659:PHE:O	1:J:687:ALA:HA	2.20	0.40
1:J:716:THR:HG23	1:J:740:ASN:O	2.22	0.40
1:J:995:THR:OG1	1:J:996:LEU:N	2.55	0.40
1:K:331:LEU:HD23	1:K:334:LEU:HD11	2.04	0.40
1:K:534:ILE:CG2	1:K:613:LYS:HZ1	2.34	0.40
1:K:868:LEU:HD11	1:K:917:TRP:HZ2	1.87	0.40
1:K:956:TYR:O	1:K:959:ASN:HB2	2.21	0.40
1:A:122:GLU:HB3	1:A:124:ILE:HG12	2.04	0.40
1:A:662:LEU:HB2	1:A:687:ALA:HB2	2.03	0.40
1:A:759:LEU:HD11	1:A:783:LEU:HD12	2.03	0.40
1:A:791:LYS:HE3	1:A:819:SER:O	2.21	0.40
1:B:534:ILE:N	1:B:693:HIS:HB2	2.37	0.40
1:B:604:ASN:C	1:B:606:ALA:H	2.25	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:C:201:PHE:HB2	1:C:245:PHE:HD1	1.87	0.40
1:C:337:THR:HA	1:C:338:PRO:HD3	1.96	0.40
1:C:571:LEU:HD23	1:C:571:LEU:HA	1.87	0.40
1:C:612:VAL:HG23	1:C:659:PHE:CZ	2.57	0.40
1:C:716:THR:HG23	1:C:740:ASN:O	2.22	0.40
1:D:164:PRO:HD2	1:D:291:GLY:HA2	2.03	0.40
1:D:222:ASN:O	1:D:224:PRO:HD3	2.22	0.40
1:D:322:TRP:O	1:D:326:GLN:HG2	2.21	0.40
1:D:537:LEU:HD22	1:D:742:SER:HB2	2.04	0.40
1:D:716:THR:HG23	1:D:740:ASN:O	2.22	0.40
1:F:418:GLU:C	1:F:420:VAL:H	2.24	0.40
1:F:534:ILE:N	1:F:693:HIS:HB2	2.37	0.40
1:F:759:LEU:HD23	1:F:762:LEU:HD12	2.02	0.40
1:G:398:LEU:HD22	1:G:402:PHE:HE2	1.83	0.40
1:G:716:THR:HG23	1:G:740:ASN:O	2.22	0.40
1:G:759:LEU:HD23	1:G:762:LEU:HD12	2.02	0.40
1:G:982:ALA:O	1:G:986:LYS:HG2	2.22	0.40
1:H:201:PHE:HB2	1:H:245:PHE:HD1	1.87	0.40
1:H:301:THR:HG22	1:H:303:ASP:H	1.87	0.40
1:H:418:GLU:C	1:H:420:VAL:H	2.24	0.40
1:H:662:LEU:HD23	1:H:662:LEU:HA	1.82	0.40
1:H:986:LYS:O	1:H:990:VAL:HG23	2.21	0.40
1:I:534:ILE:N	1:I:693:HIS:HB2	2.37	0.40
1:I:662:LEU:HA	1:I:662:LEU:HD23	1.82	0.40
1:I:868:LEU:HD11	1:I:917:TRP:HZ2	1.87	0.40
1:J:537:LEU:HD22	1:J:742:SER:HB2	2.04	0.40
1:J:987:LEU:HD12	1:J:987:LEU:HA	2.00	0.40
1:K:201:PHE:HB2	1:K:245:PHE:HD1	1.87	0.40
1:K:537:LEU:HD12	1:K:537:LEU:O	2.21	0.40
1:K:586:ILE:N	1:K:613:LYS:O	2.48	0.40
1:A:456:SER:HB3	1:A:497:SER:CB	2.52	0.40
1:A:534:ILE:N	1:A:693:HIS:HB2	2.37	0.40
1:B:197:PHE:CE1	1:B:274:MET:HB2	2.56	0.40
1:B:418:GLU:C	1:B:420:VAL:H	2.24	0.40
1:B:523:VAL:HG23	1:B:545:VAL:HB	2.04	0.40
1:B:662:LEU:HB2	1:B:687:ALA:HB2	2.03	0.40
1:B:663:GLU:OE1	1:B:691:ARG:HD2	2.20	0.40
1:B:749:GLN:NE2	1:B:774:ARG:NH1	2.69	0.40
1:C:301:THR:HG22	1:C:303:ASP:H	1.86	0.40
1:C:434:ARG:HH11	1:C:434:ARG:HD2	1.77	0.40
1:D:370:LEU:HD23	1:D:370:LEU:HA	1.65	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:320:ARG:NH1	1:E:352:GLN:O	2.41	0.40
1:E:320:ARG:HD3	1:E:353:GLU:HB2	2.03	0.40
1:E:329:ARG:HA	1:E:329:ARG:HD3	1.77	0.40
1:E:396:LEU:HD23	1:E:396:LEU:HA	1.81	0.40
1:E:749:GLN:NE2	1:E:774:ARG:HH12	2.19	0.40
1:E:796:LEU:O	1:E:797:HIS:HD2	2.05	0.40
1:F:140:TRP:N	1:F:296:GLU:O	2.53	0.40
1:F:612:VAL:HG23	1:F:659:PHE:CZ	2.57	0.40
1:F:662:LEU:HD23	1:F:662:LEU:HA	1.82	0.40
1:G:301:THR:HG22	1:G:303:ASP:H	1.87	0.40
1:G:480:ILE:HD12	1:G:557:CYS:HB2	2.02	0.40
1:H:537:LEU:HD22	1:H:742:SER:HB2	2.04	0.40
1:H:574:GLU:OE1	1:H:574:GLU:N	2.52	0.40
1:H:961:PHE:HZ	1:H:970:PHE:CD2	2.40	0.40
1:H:995:THR:OG1	1:H:996:LEU:N	2.55	0.40
1:I:122:GLU:HB3	1:I:124:ILE:HG12	2.04	0.40
1:I:791:LYS:HE3	1:I:819:SER:O	2.21	0.40
1:I:961:PHE:HZ	1:I:970:PHE:CD2	2.40	0.40
1:J:122:GLU:HB3	1:J:124:ILE:HG12	2.04	0.40
1:J:264:LEU:H	1:J:264:LEU:HG	1.67	0.40
1:J:329:ARG:NH1	1:J:332:ARG:HD3	2.35	0.40
1:J:396:LEU:HD23	1:J:396:LEU:HA	1.81	0.40
1:J:796:LEU:O	1:J:797:HIS:HD2	2.05	0.40
1:J:924:ILE:HD12	1:J:924:ILE:HA	1.94	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	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8 42

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
1	C	904/932 (97%)	822 (91%)	66 (7%)	16 (2%)	8	42
1	D	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
1	E	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
1	F	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
1	G	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
1	H	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
1	I	904/932 (97%)	822 (91%)	66 (7%)	16 (2%)	8	42
1	J	904/932 (97%)	822 (91%)	66 (7%)	16 (2%)	8	42
1	K	904/932 (97%)	823 (91%)	65 (7%)	16 (2%)	8	42
All	All	9944/10252 (97%)	9050 (91%)	718 (7%)	176 (2%)	12	42

All (176) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	K	146	HIS
1	K	241	LYS
1	K	272	LYS
1	K	442	PHE
1	K	481	SER
1	K	568	LYS
1	A	146	HIS
1	A	241	LYS
1	A	272	LYS
1	A	442	PHE
1	A	481	SER
1	A	568	LYS
1	B	146	HIS
1	B	241	LYS
1	B	272	LYS
1	B	442	PHE
1	B	481	SER
1	B	568	LYS
1	C	146	HIS
1	C	241	LYS
1	C	272	LYS
1	C	442	PHE
1	C	481	SER

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Mol	Chain	Res	Type
1	C	568	LYS
1	D	146	HIS
1	D	241	LYS
1	D	272	LYS
1	D	442	PHE
1	D	481	SER
1	D	568	LYS
1	E	146	HIS
1	E	241	LYS
1	E	272	LYS
1	E	442	PHE
1	E	481	SER
1	E	568	LYS
1	F	146	HIS
1	F	241	LYS
1	F	272	LYS
1	F	442	PHE
1	F	481	SER
1	F	568	LYS
1	G	146	HIS
1	G	241	LYS
1	G	272	LYS
1	G	442	PHE
1	G	481	SER
1	G	568	LYS
1	H	146	HIS
1	H	241	LYS
1	H	272	LYS
1	H	442	PHE
1	H	481	SER
1	H	568	LYS
1	I	146	HIS
1	I	241	LYS
1	I	272	LYS
1	I	442	PHE
1	I	481	SER
1	I	568	LYS
1	J	146	HIS
1	J	241	LYS
1	J	272	LYS
1	J	442	PHE
1	J	481	SER

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Mol	Chain	Res	Type
1	J	568	LYS
1	K	544	ASP
1	K	599	PHE
1	A	544	ASP
1	A	599	PHE
1	B	544	ASP
1	B	599	PHE
1	C	544	ASP
1	C	599	PHE
1	D	544	ASP
1	D	599	PHE
1	E	544	ASP
1	E	599	PHE
1	F	544	ASP
1	F	599	PHE
1	G	544	ASP
1	G	599	PHE
1	H	544	ASP
1	H	599	PHE
1	I	544	ASP
1	I	599	PHE
1	J	544	ASP
1	J	599	PHE
1	K	1010	TYR
1	A	1010	TYR
1	B	1010	TYR
1	C	1010	TYR
1	D	1010	TYR
1	E	1010	TYR
1	F	1010	TYR
1	G	1010	TYR
1	H	1010	TYR
1	I	1010	TYR
1	J	1010	TYR
1	K	118	TYR
1	K	404	HIS
1	K	437	PRO
1	K	479	SER
1	A	118	TYR
1	A	404	HIS
1	A	437	PRO
1	A	479	SER

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Mol	Chain	Res	Type
1	B	118	TYR
1	B	404	HIS
1	B	437	PRO
1	B	479	SER
1	C	118	TYR
1	C	404	HIS
1	C	437	PRO
1	C	479	SER
1	D	118	TYR
1	D	404	HIS
1	D	437	PRO
1	D	479	SER
1	E	118	TYR
1	E	404	HIS
1	E	437	PRO
1	F	118	TYR
1	F	404	HIS
1	F	437	PRO
1	F	479	SER
1	G	118	TYR
1	G	404	HIS
1	G	437	PRO
1	G	479	SER
1	H	118	TYR
1	H	404	HIS
1	H	437	PRO
1	H	479	SER
1	I	118	TYR
1	I	404	HIS
1	I	437	PRO
1	J	118	TYR
1	J	404	HIS
1	J	437	PRO
1	J	479	SER
1	K	499	THR
1	A	499	THR
1	B	499	THR
1	C	499	THR
1	D	499	THR
1	E	479	SER
1	E	499	THR
1	F	499	THR

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Mol	Chain	Res	Type
1	G	499	THR
1	H	499	THR
1	I	479	SER
1	I	499	THR
1	J	499	THR
1	K	227	ILE
1	A	227	ILE
1	B	227	ILE
1	C	227	ILE
1	D	227	ILE
1	E	227	ILE
1	F	227	ILE
1	G	227	ILE
1	H	227	ILE
1	I	227	ILE
1	J	227	ILE
1	K	127	ILE
1	A	127	ILE
1	B	127	ILE
1	C	127	ILE
1	D	127	ILE
1	E	127	ILE
1	F	127	ILE
1	G	127	ILE
1	H	127	ILE
1	I	127	ILE
1	J	127	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	B	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	C	810/830 (98%)	784 (97%)	26 (3%)	39	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	D	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	E	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	F	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	G	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	H	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	I	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	J	810/830 (98%)	784 (97%)	26 (3%)	39	62
1	K	810/830 (98%)	784 (97%)	26 (3%)	39	62
All	All	8910/9130 (98%)	8624 (97%)	286 (3%)	42	62

All (286) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	K	117	PHE
1	K	118	TYR
1	K	152	LEU
1	K	168	GLU
1	K	182	ILE
1	K	217	TYR
1	K	221	LEU
1	K	250	TYR
1	K	264	LEU
1	K	284	LEU
1	K	358	THR
1	K	415	SER
1	K	437	PRO
1	K	487	TYR
1	K	529	TRP
1	K	576	GLU
1	K	585	TYR
1	K	614	LEU
1	K	659	PHE
1	K	663	GLU
1	K	762	LEU
1	K	883	THR
1	K	947	HIS
1	K	970	PHE
1	K	1007	PHE
1	K	1021	LEU

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Mol	Chain	Res	Type
1	A	117	PHE
1	A	118	TYR
1	A	152	LEU
1	A	168	GLU
1	A	182	ILE
1	A	217	TYR
1	A	221	LEU
1	A	250	TYR
1	A	264	LEU
1	A	284	LEU
1	A	358	THR
1	A	415	SER
1	A	437	PRO
1	A	487	TYR
1	A	529	TRP
1	A	576	GLU
1	A	585	TYR
1	A	614	LEU
1	A	659	PHE
1	A	663	GLU
1	A	762	LEU
1	A	883	THR
1	A	947	HIS
1	A	970	PHE
1	A	1007	PHE
1	A	1021	LEU
1	B	117	PHE
1	B	118	TYR
1	B	152	LEU
1	B	168	GLU
1	B	182	ILE
1	B	217	TYR
1	B	221	LEU
1	B	250	TYR
1	B	264	LEU
1	B	284	LEU
1	B	358	THR
1	B	415	SER
1	B	437	PRO
1	B	487	TYR
1	B	529	TRP
1	B	576	GLU

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Mol	Chain	Res	Type
1	B	585	TYR
1	B	614	LEU
1	B	659	PHE
1	B	663	GLU
1	B	762	LEU
1	B	883	THR
1	B	947	HIS
1	B	970	PHE
1	B	1007	PHE
1	B	1021	LEU
1	C	117	PHE
1	C	118	TYR
1	C	152	LEU
1	C	168	GLU
1	C	182	ILE
1	C	217	TYR
1	C	221	LEU
1	C	250	TYR
1	C	264	LEU
1	C	284	LEU
1	C	358	THR
1	C	415	SER
1	C	437	PRO
1	C	487	TYR
1	C	529	TRP
1	C	576	GLU
1	C	585	TYR
1	C	614	LEU
1	C	659	PHE
1	C	663	GLU
1	C	762	LEU
1	C	883	THR
1	C	947	HIS
1	C	970	PHE
1	C	1007	PHE
1	C	1021	LEU
1	D	117	PHE
1	D	118	TYR
1	D	152	LEU
1	D	168	GLU
1	D	182	ILE
1	D	217	TYR

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Mol	Chain	Res	Type
1	D	221	LEU
1	D	250	TYR
1	D	264	LEU
1	D	284	LEU
1	D	358	THR
1	D	415	SER
1	D	437	PRO
1	D	487	TYR
1	D	529	TRP
1	D	576	GLU
1	D	585	TYR
1	D	614	LEU
1	D	659	PHE
1	D	663	GLU
1	D	762	LEU
1	D	883	THR
1	D	947	HIS
1	D	970	PHE
1	D	1007	PHE
1	D	1021	LEU
1	E	117	PHE
1	E	118	TYR
1	E	152	LEU
1	E	168	GLU
1	E	182	ILE
1	E	217	TYR
1	E	221	LEU
1	E	250	TYR
1	E	264	LEU
1	E	284	LEU
1	E	358	THR
1	E	415	SER
1	E	437	PRO
1	E	487	TYR
1	E	529	TRP
1	E	576	GLU
1	E	585	TYR
1	E	614	LEU
1	E	659	PHE
1	E	663	GLU
1	E	762	LEU
1	E	883	THR

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Mol	Chain	Res	Type
1	E	947	HIS
1	E	970	PHE
1	E	1007	PHE
1	E	1021	LEU
1	F	117	PHE
1	F	118	TYR
1	F	152	LEU
1	F	168	GLU
1	F	182	ILE
1	F	217	TYR
1	F	221	LEU
1	F	250	TYR
1	F	264	LEU
1	F	284	LEU
1	F	358	THR
1	F	415	SER
1	F	437	PRO
1	F	487	TYR
1	F	529	TRP
1	F	576	GLU
1	F	585	TYR
1	F	614	LEU
1	F	659	PHE
1	F	663	GLU
1	F	762	LEU
1	F	883	THR
1	F	947	HIS
1	F	970	PHE
1	F	1007	PHE
1	F	1021	LEU
1	G	117	PHE
1	G	118	TYR
1	G	152	LEU
1	G	168	GLU
1	G	182	ILE
1	G	217	TYR
1	G	221	LEU
1	G	250	TYR
1	G	264	LEU
1	G	284	LEU
1	G	358	THR
1	G	415	SER

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Mol	Chain	Res	Type
1	G	437	PRO
1	G	487	TYR
1	G	529	TRP
1	G	576	GLU
1	G	585	TYR
1	G	614	LEU
1	G	659	PHE
1	G	663	GLU
1	G	762	LEU
1	G	883	THR
1	G	947	HIS
1	G	970	PHE
1	G	1007	PHE
1	G	1021	LEU
1	H	117	PHE
1	H	118	TYR
1	H	152	LEU
1	H	168	GLU
1	H	182	ILE
1	H	217	TYR
1	H	221	LEU
1	H	250	TYR
1	H	264	LEU
1	H	284	LEU
1	H	358	THR
1	H	415	SER
1	H	437	PRO
1	H	487	TYR
1	H	529	TRP
1	H	576	GLU
1	H	585	TYR
1	H	614	LEU
1	H	659	PHE
1	H	663	GLU
1	H	762	LEU
1	H	883	THR
1	H	947	HIS
1	H	970	PHE
1	H	1007	PHE
1	H	1021	LEU
1	I	117	PHE
1	I	118	TYR

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Mol	Chain	Res	Type
1	I	152	LEU
1	I	168	GLU
1	I	182	ILE
1	I	217	TYR
1	I	221	LEU
1	I	250	TYR
1	I	264	LEU
1	I	284	LEU
1	I	358	THR
1	I	415	SER
1	I	437	PRO
1	I	487	TYR
1	I	529	TRP
1	I	576	GLU
1	I	585	TYR
1	I	614	LEU
1	I	659	PHE
1	I	663	GLU
1	I	762	LEU
1	I	883	THR
1	I	947	HIS
1	I	970	PHE
1	I	1007	PHE
1	I	1021	LEU
1	J	117	PHE
1	J	118	TYR
1	J	152	LEU
1	J	168	GLU
1	J	182	ILE
1	J	217	TYR
1	J	221	LEU
1	J	250	TYR
1	J	264	LEU
1	J	284	LEU
1	J	358	THR
1	J	415	SER
1	J	437	PRO
1	J	487	TYR
1	J	529	TRP
1	J	576	GLU
1	J	585	TYR
1	J	614	LEU

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Mol	Chain	Res	Type
1	J	659	PHE
1	J	663	GLU
1	J	762	LEU
1	J	883	THR
1	J	947	HIS
1	J	970	PHE
1	J	1007	PHE
1	J	1021	LEU

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

Mol	Chain	Res	Type
1	K	146	HIS
1	K	257	ASN
1	K	433	GLN
1	K	693	HIS
1	A	146	HIS
1	A	257	ASN
1	A	433	GLN
1	A	693	HIS
1	A	869	GLN
1	B	146	HIS
1	B	257	ASN
1	B	433	GLN
1	B	869	GLN
1	C	146	HIS
1	C	257	ASN
1	C	433	GLN
1	D	146	HIS
1	D	257	ASN
1	D	433	GLN
1	D	693	HIS
1	E	146	HIS
1	E	257	ASN
1	E	433	GLN
1	E	693	HIS
1	E	869	GLN
1	F	146	HIS
1	F	257	ASN
1	F	433	GLN
1	F	693	HIS
1	F	869	GLN

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Mol	Chain	Res	Type
1	G	146	HIS
1	G	257	ASN
1	G	433	GLN
1	G	693	HIS
1	H	146	HIS
1	H	257	ASN
1	H	433	GLN
1	H	693	HIS
1	H	869	GLN
1	I	146	HIS
1	I	257	ASN
1	I	433	GLN
1	I	869	GLN
1	J	146	HIS
1	J	257	ASN
1	J	433	GLN
1	J	693	HIS

5.3.3 RNA

There are no RNA molecules in this entry.

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

11 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
1	SEP	C	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.34	1 (12%)
1	SEP	D	533	1	8,9,10	1.53	1 (12%)	8,12,14	1.34	1 (12%)
1	SEP	G	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.34	1 (12%)
1	SEP	H	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.34	1 (12%)
1	SEP	A	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.35	1 (12%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	SEP	E	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.35	1 (12%)
1	SEP	K	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.34	1 (12%)
1	SEP	I	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.34	1 (12%)
1	SEP	F	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.33	1 (12%)
1	SEP	J	533	1	8,9,10	1.53	1 (12%)	8,12,14	1.35	1 (12%)
1	SEP	B	533	1	8,9,10	1.54	1 (12%)	8,12,14	1.34	1 (12%)

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

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	SEP	C	533	1	-	0/5/8/10	-
1	SEP	D	533	1	-	0/5/8/10	-
1	SEP	G	533	1	-	0/5/8/10	-
1	SEP	H	533	1	-	0/5/8/10	-
1	SEP	A	533	1	-	0/5/8/10	-
1	SEP	E	533	1	-	0/5/8/10	-
1	SEP	K	533	1	-	0/5/8/10	-
1	SEP	I	533	1	-	0/5/8/10	-
1	SEP	F	533	1	-	0/5/8/10	-
1	SEP	J	533	1	-	0/5/8/10	-
1	SEP	B	533	1	-	0/5/8/10	-

All (11) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	533	SEP	P-O1P	3.39	1.61	1.50
1	F	533	SEP	P-O1P	3.39	1.61	1.50
1	C	533	SEP	P-O1P	3.39	1.61	1.50
1	B	533	SEP	P-O1P	3.38	1.61	1.50
1	K	533	SEP	P-O1P	3.38	1.61	1.50
1	A	533	SEP	P-O1P	3.38	1.61	1.50
1	I	533	SEP	P-O1P	3.38	1.61	1.50
1	E	533	SEP	P-O1P	3.37	1.61	1.50
1	H	533	SEP	P-O1P	3.37	1.61	1.50
1	J	533	SEP	P-O1P	3.36	1.61	1.50
1	D	533	SEP	P-O1P	3.36	1.61	1.50

All (11) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	533	SEP	P-OG-CB	-2.81	110.55	118.30
1	E	533	SEP	P-OG-CB	-2.81	110.56	118.30
1	G	533	SEP	P-OG-CB	-2.81	110.56	118.30
1	H	533	SEP	P-OG-CB	-2.81	110.56	118.30
1	D	533	SEP	P-OG-CB	-2.81	110.56	118.30
1	K	533	SEP	P-OG-CB	-2.80	110.57	118.30
1	J	533	SEP	P-OG-CB	-2.80	110.58	118.30
1	C	533	SEP	P-OG-CB	-2.80	110.59	118.30
1	B	533	SEP	P-OG-CB	-2.80	110.59	118.30
1	F	533	SEP	P-OG-CB	-2.80	110.60	118.30
1	I	533	SEP	P-OG-CB	-2.79	110.60	118.30

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

11 monomers are involved in 23 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	C	533	SEP	2	0
1	D	533	SEP	2	0
1	G	533	SEP	2	0
1	H	533	SEP	2	0
1	A	533	SEP	2	0
1	E	533	SEP	2	0
1	K	533	SEP	2	0
1	I	533	SEP	2	0
1	F	533	SEP	3	0
1	J	533	SEP	2	0
1	B	533	SEP	2	0

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.

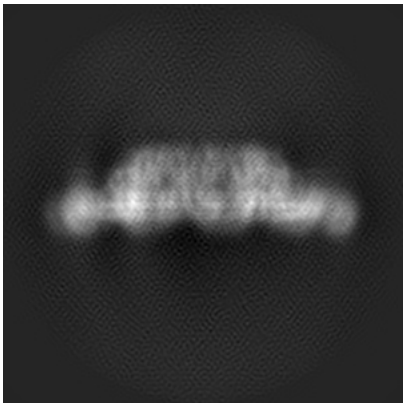
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-6458. These allow visual inspection of the internal detail of the map and identification of artifacts.

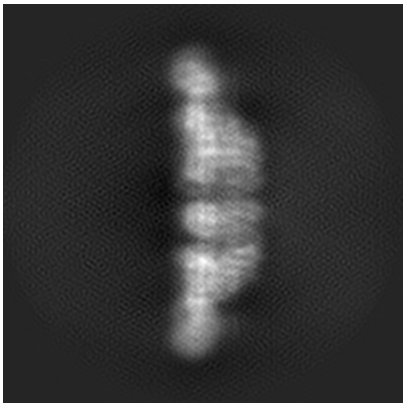
No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

6.1 Orthogonal projections

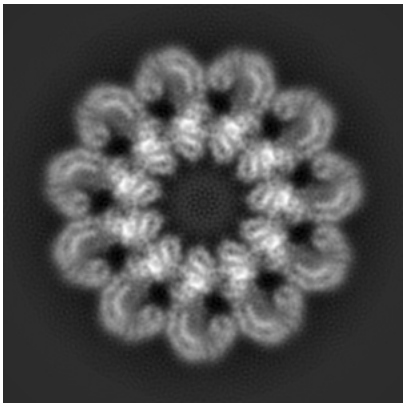
6.1.1 Primary map



X



Y

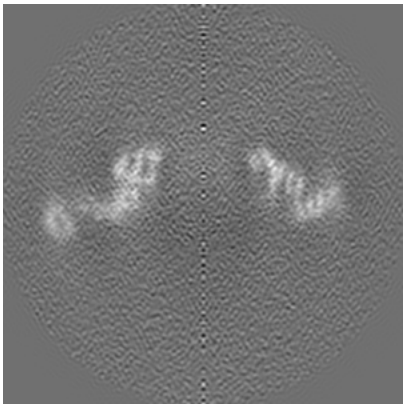


Z

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

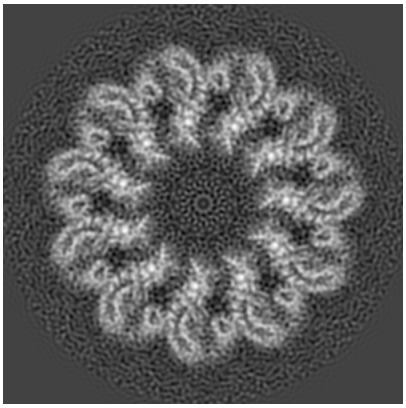
6.2 Central slices

6.2.1 Primary map



X Index: 224

Y Index: 224



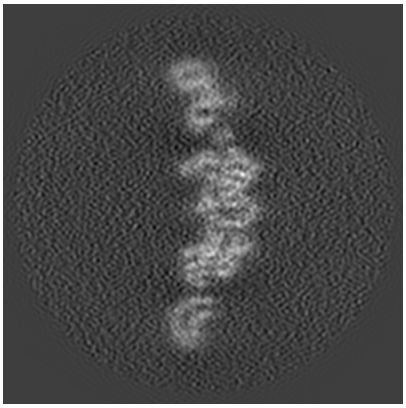
Z Index: 224

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

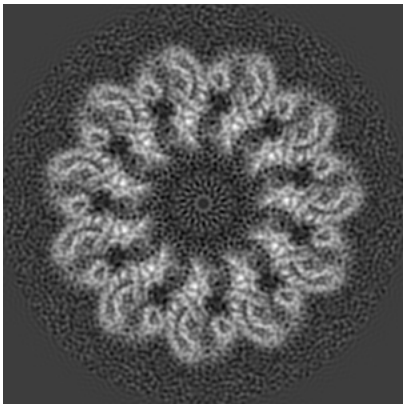
6.3 Largest variance slices (i)

6.3.1 Primary map

X Index: 157



Y Index: 148



Z Index: 223

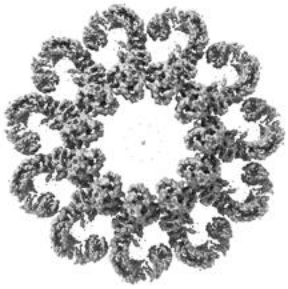
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal surface views (i)

6.4.1 Primary map

X

Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0045. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

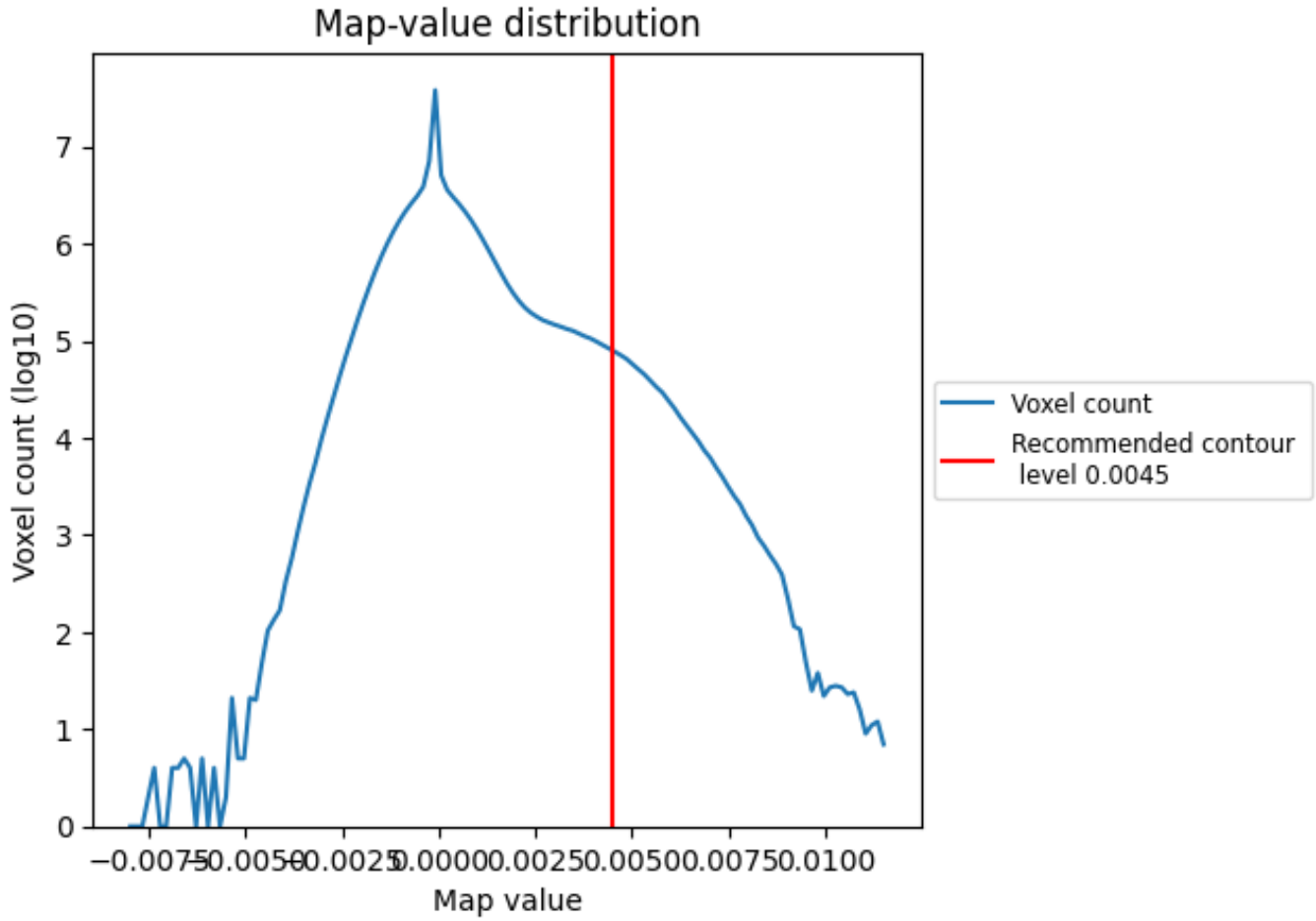
6.5 Mask visualisation (i)

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

7 Map analysis

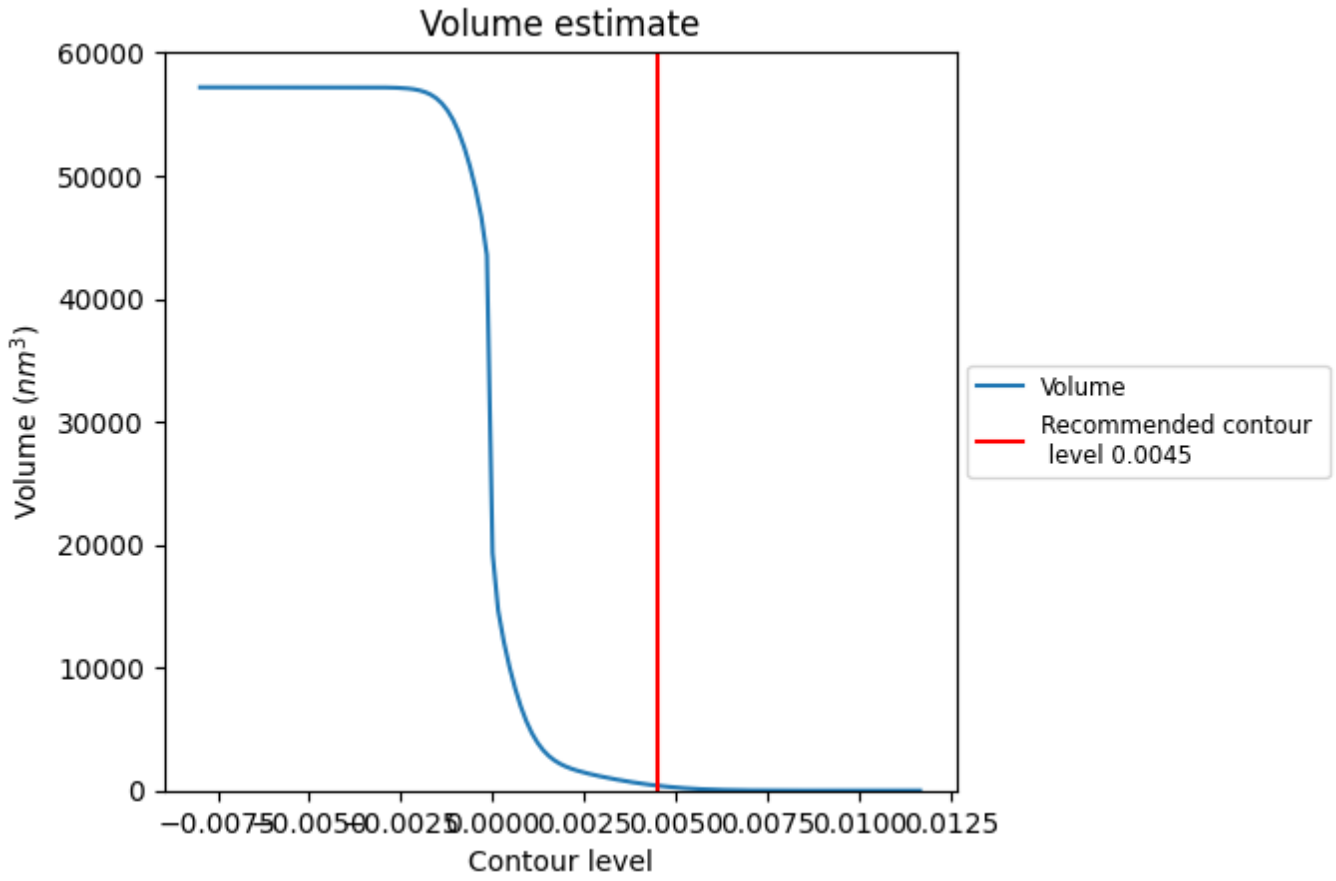
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



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

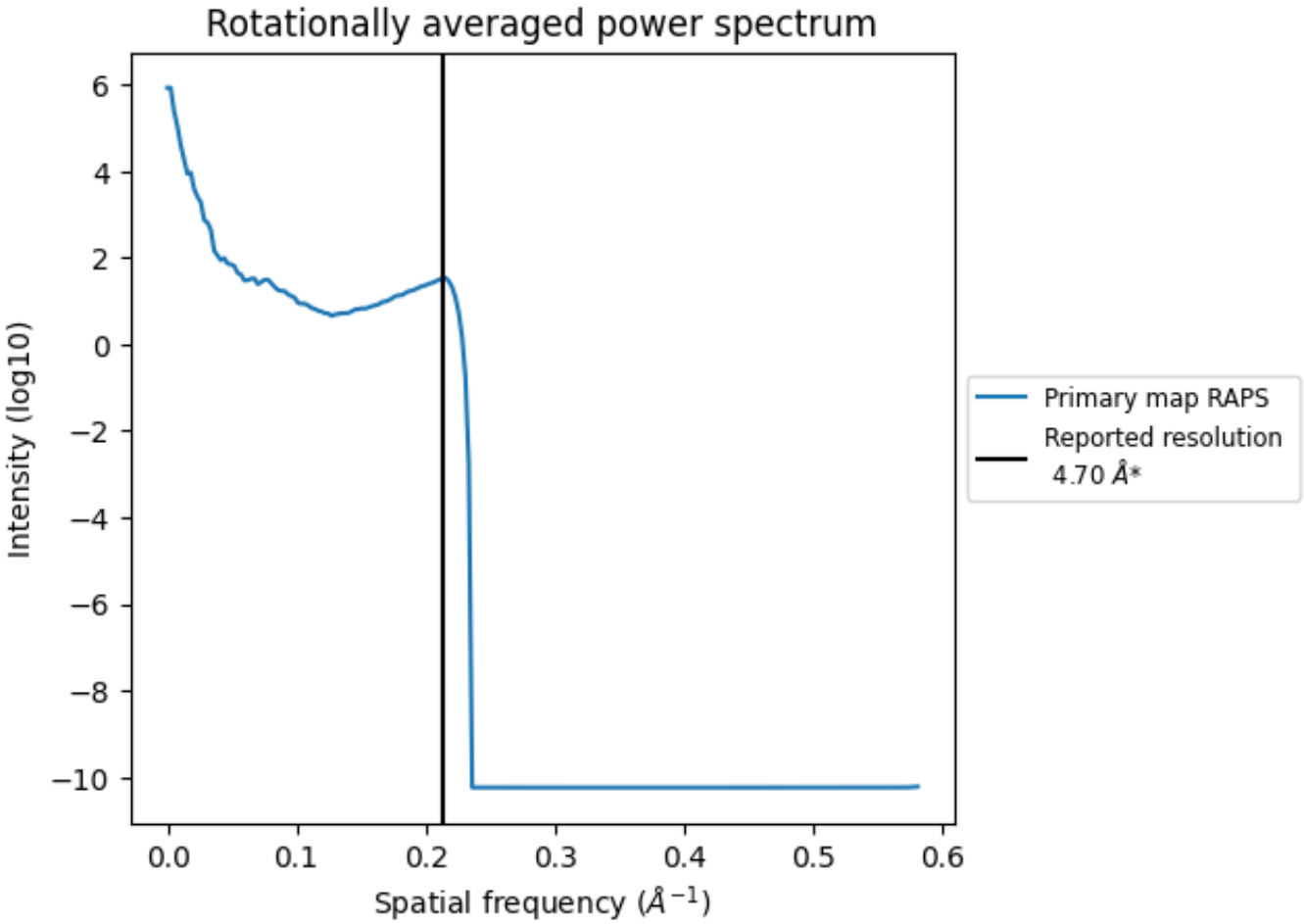
7.2 Volume estimate



The volume at the recommended contour level is 399 nm^3; this corresponds to an approximate mass of 361 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 0.213 Å^{-1}

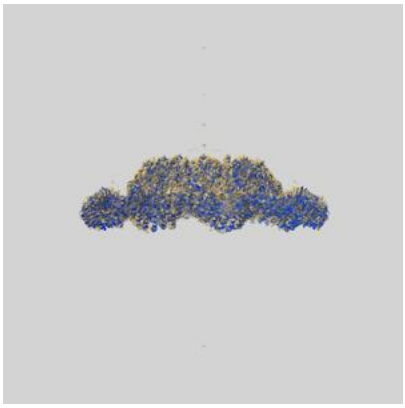
8 Fourier-Shell correlation (i)

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

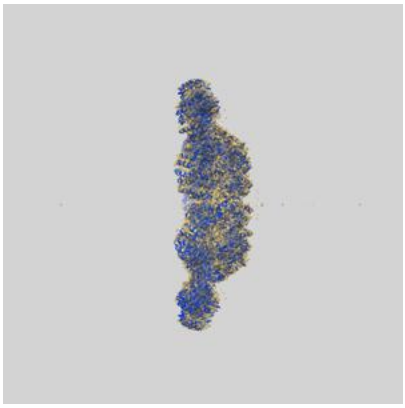
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-6458 and PDB model 3JBL. Per-residue inclusion information can be found in section 3 on page 5.

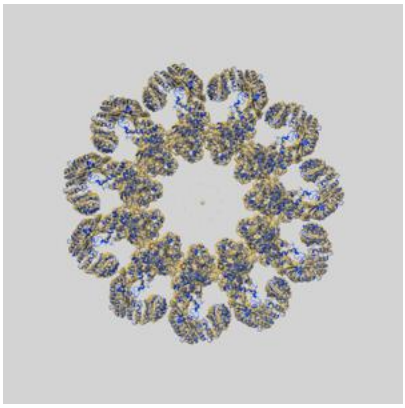
9.1 Map-model overlay



X



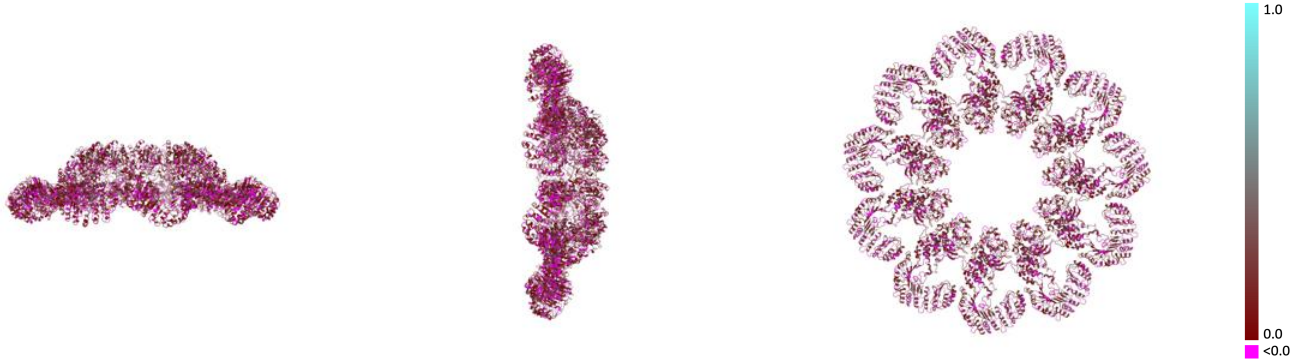
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0045 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.

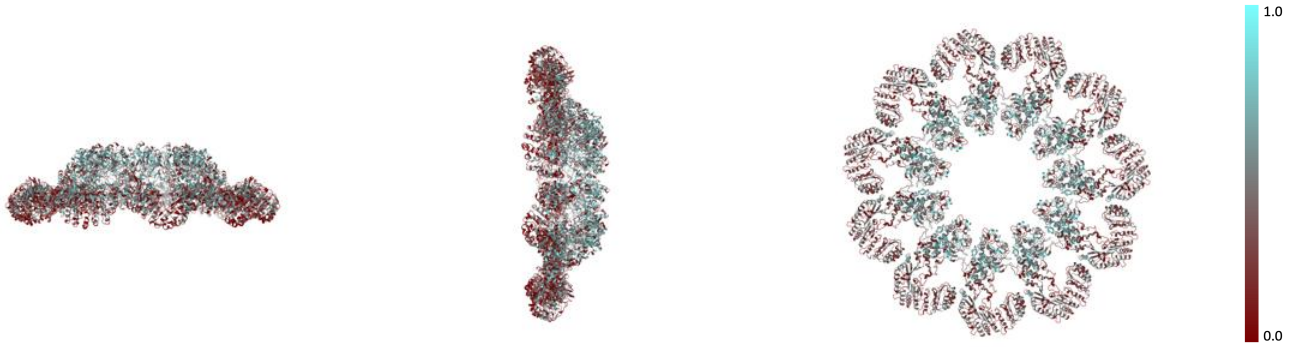
9.2 Q-score mapped to coordinate model (i)



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.

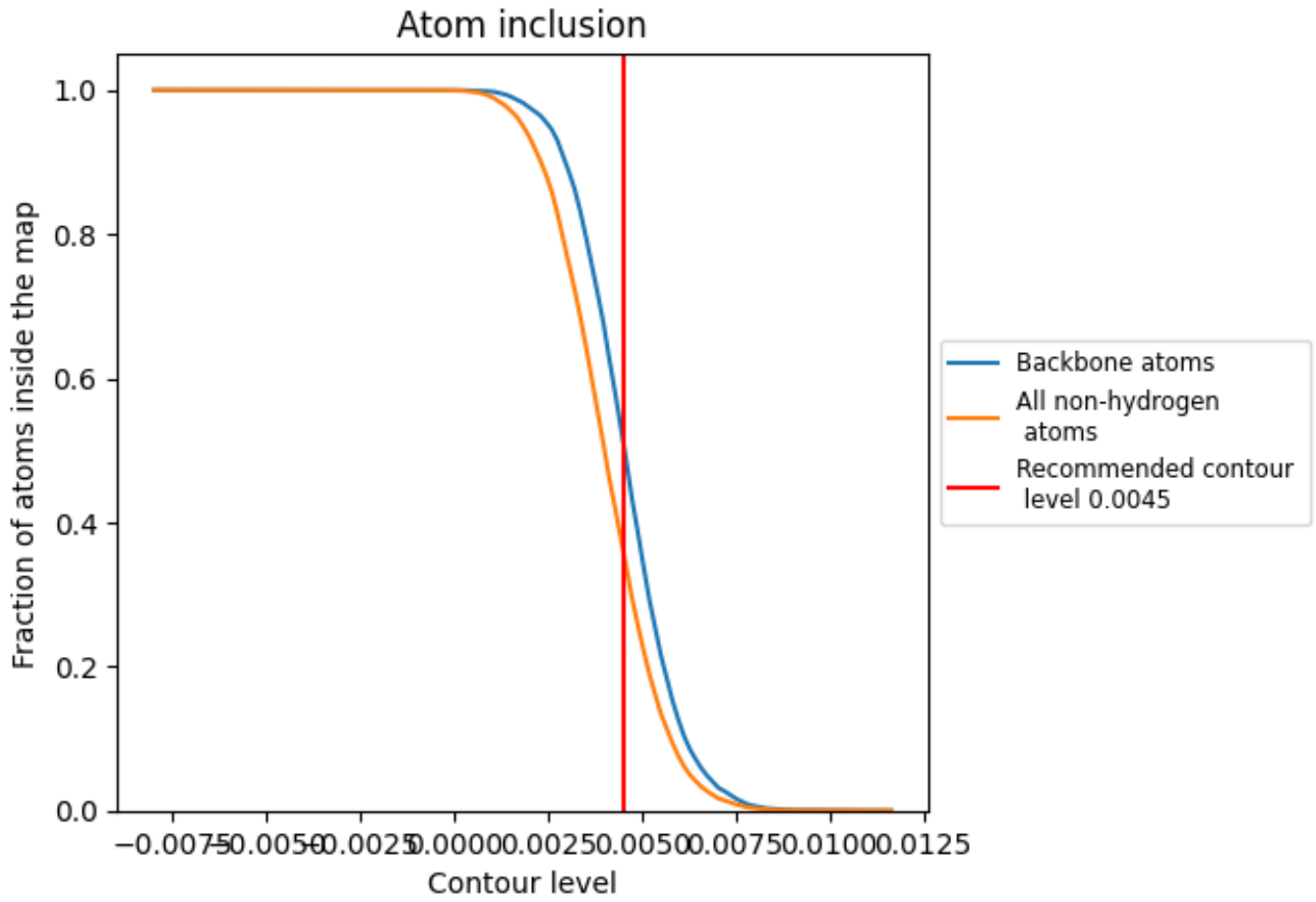
9.3 Atom inclusion mapped to coordinate model (i)



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 (0.0045).

9.4 Atom inclusion (i)



At the recommended contour level, 52% of all backbone atoms, 36% 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 (0.0045) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.3643	0.1160
A	0.3659	0.1160
B	0.3631	0.1170
C	0.3648	0.1160
D	0.3663	0.1170
E	0.3630	0.1160
F	0.3646	0.1170
G	0.3638	0.1170
H	0.3645	0.1170
I	0.3673	0.1160
J	0.3623	0.1160
K	0.3621	0.1160